B Laboratory Results

ANALYTICAL REPORT

Job Number: 580-19399-1

Job Description: Contact & Sonoma Mine Sites

For:
Ecology and Environment, Inc.
333 SW 5th Avenue
Portland, OR 97204

Attention: Jim Petersen

Approved for release.
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The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted in the case narrative.

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CASE NARRATIVE

Client: Ecology and Environment, Inc.
Project: Contact & Sonoma Mine Sites
Report Number: 580-19399-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 05/18/2010; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.1 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples 580-19399-22 through 580-19399-25 were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/26/2010 and analyzed on 05/27/2010. The analysis for sample 580-19399-22 was requested one week past the method required holding time. The sample was prepared one week past holding time and has been flagged 'H'H.

No difficulties were encountered during the semivolatiles analyses.

All quality control parameters were within the acceptance limits.

TOTAL METALS
Samples 580-19399-1 through 580-19399-32 were analyzed for total metals in accordance with EPA SW-846 Method 6020. The samples were prepared on 05/27/2010 and analyzed on 05/27/2010, 05/28/2010 and 05/29/2010.

Recovery values for Chromium, Lead, Iron, Manganese, Nickel, Aluminum, Zinc and Magnesium in the matrix spike and/or matrix spike duplicate of sample 580-19399-14 were outside advisory QC limits due to high concentration of the analyte in the original sample. The analyte present in the original sample is four times greater than the matrix spike concentration; therefore, control limits are not applicable.

Recovery values for Chromium, Iron, Manganese, Nickel, Aluminum and Magnesium in the matrix spike and/or matrix spike duplicate of sample 580-19399-31 were outside advisory QC limits due to high concentration of the analyte in the original sample. The analyte present in the original sample is four times greater than the matrix spike concentration; therefore, control limits are not applicable.

The ICP-MS ICSA/AB standard contains trace impurities derived from the manufacturing process, which may cause these standards to fail method QC criteria. Regrettably corrective action can not be performed for any outliers other than to note deficiencies in the laboratory's QC report section.

No other difficulties were encountered during the total metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY
Samples 580-19399-1 through 580-19399-3, 580-19399-5 through 580-19399-8, 580-19399-11 and 580-19399-13 through 580-19399-32 were analyzed for total mercury in accordance with EPA SW-846 Method 7471A. The samples were prepared on 05/27/2010 and analyzed on 05/27/2010 and 05/28/2010.

Samples 580-19399-1 through 580-19399-3, 580-19399-5 through 580-19399-8, 580-19399-11 and 580-19399-13 through 580-19399-32 required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the total mercury analyses.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples 580-19399-1 through 580-19399-32 were analyzed for percent solids in accordance with EPA Method 160.3 Modified. The samples were analyzed on 05/21/2010.

Percent Moisture exceeded the RPD limit for the duplicate of sample 580-19399-1.

No other difficulties were encountered during the % solids analyses.

All other quality control parameters were within the acceptance limits.

SUBCONTRACT

TestAmerica North Canton analyzed samples 580-19399-4, 580-19399-9, 580-19399-10 and 580-19399-12 for low-level mercury. The analytical results and raw data are located in the subcontract section of this data package.

SAMPLE SUMMARY

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-19399-1	02SMRT1	Solid	05/09/2010 1315	05/18/2010 0950
580-19399-2	01SMSS	Solid	05/09/2010 0751	05/18/2010 0950
580-19399-3	02SMSS	Solid	05/09/2010 0800	05/18/2010 0950
580-19399-4	01CSBG	Solid	05/08/2010 1700	05/18/2010 0950
580-19399-5	03SMRT1	Solid	05/09/2010 1330	05/18/2010 0950
580-19399-6	04SMRT1	Solid	05/09/2010 1345	05/18/2010 0950
580-19399-7	05SMRT1	Solid	05/09/2010 1355	05/18/2010 0950
580-19399-8	06SMRT1	Solid	05/09/2010 1405	05/18/2010 0950
580-19399-9	03HMBG	Solid	05/16/2010 1245	05/18/2010 0950
580-19399-10	02CSBG	Solid	05/14/2010 1515	05/18/2010 0950
580-19399-11	10SMSS	Solid	05/09/2010 1005	05/18/2010 0950
580-19399-12	02HMBG	Solid	05/07/2010 0855	05/18/2010 0950
580-19399-13	03SMSS	Solid	05/09/2010 0815	05/18/2010 0950
580-19399-14	01SMRT2	Solid	05/09/2010 1500	05/18/2010 0950
580-19399-15	02SMRT2	Solid	05/09/2010 1510	05/18/2010 0950
580-19399-16	03SMRT2	Solid	05/09/2010 1515	05/18/2010 0950
580-19399-17	04SMRT2	Solid	05/09/2010 1530	05/18/2010 0950
580-19399-18	05SMRT2	Solid	05/09/2010 1537	05/18/2010 0950
580-19399-19	06SMRT2	Solid	05/09/2010 1547	05/18/2010 0950
580-19399-20	01SMRT1	Solid	05/09/2010 1305	05/18/2010 0950
580-19399-21	21HMSS	Solid	05/12/2010 0850	05/18/2010 0950
580-19399-22	01HMST	Solid	05/05/2010 1000	05/18/2010 0950
580-19399-23	02HMST	Solid	05/12/2010 1002	05/18/2010 0950
580-19399-24	03HMST	Solid	05/12/2010 1007	05/18/2010 0950
580-19399-25	04HMST	Solid	05/12/2010 1015	05/18/2010 0950
580-19399-26	11SMSS	Solid	05/09/2010 1011	05/18/2010 0950
580-19399-27	12SMSS	Solid	05/09/2010 1025	05/18/2010 0950
580-19399-28	13SMSS	Solid	05/10/2010 0815	05/18/2010 0950
580-19399-29	14SMSS	Solid	05/10/2010 0830	05/18/2010 0950
580-19399-30	15SMSS	Solid	05/10/2010 0845	05/18/2010 0950
580-19399-31	16SMSS	Solid	05/10/2010 0855	05/18/2010 0950
580-19399-32	17SMSS	Solid	05/10/2010 0905	05/18/2010 0950

METHOD SUMMARY

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL TAC	SW846 8270C	
Ultrasonic Extraction	TAL TAC		SW846 3550B
Metals (ICP/MS)	TAL TAC	SW846 6020	
Preparation, Metals	TAL TAC		SW846 3050B
Mercury (CVAA)	TAL TAC	SW846 7471A	
Preparation, Mercury	TAL TAC		SW846 7471A
Percent Moisture	TAL TAC	EPA Moisture	
EPA 1631E Low Level Mercury	TAL NC	EPA 1631E	

Lab References:

TAL NC = TestAmerica North Canton

TAL TAC = TestAmerica Tacoma

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **01HMST**

Lab Sample ID: 580-19399-22 Date Sampled: 05/05/2010 1000
Client Matrix: Solid % Moisture: 25.4 Date Received: 05/18/2010 0950

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 580-64507		Instrument ID:	TAC002
Preparation:	3550B	Prep Batch: 580-64442		Lab File ID:	AT15212.D
Dilution:	1.0			Initial Weight/Volume:	10.2526 g
Date Analyzed:	05/27/2010 1438			Final Weight/Volume:	10 mL
Date Prepared:	05/26/2010 1516			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Naphthalene		ND	H	26
2-Methylnaphthalene		ND	H	26
1-Methylnaphthalene		ND	H	39
Acenaphthylene		ND	H	26
Acenaphthene		ND	H	26
Fluorene		ND	H	26
Phenanthrene		ND	H	26
Anthracene		ND	H	26
Fluoranthene		ND	H	26
Pyrene		ND	H	26
Benzo[a]anthracene		ND	H	33
Chrysene		ND	H	33
Benzo[b]fluoranthene		ND	H	26
Benzo[k]fluoranthene		ND	H	33
Benzo[a]pyrene		ND	H	39
Indeno[1,2,3-cd]pyrene		ND	H	52
Dibenz(a,h)anthracene		ND	H	52
Benzo[g,h,i]perylene		ND	H	33

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	83		38 - 141
2-Fluorobiphenyl	93		42 - 140
Terphenyl-d14	85		42 - 151

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **02HMST**

Lab Sample ID: 580-19399-23 Date Sampled: 05/12/2010 1002
Client Matrix: Solid % Moisture: 40.5 Date Received: 05/18/2010 0950

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 580-64507		Instrument ID:	TAC002
Preparation:	3550B	Prep Batch: 580-64442		Lab File ID:	AT15215.D
Dilution:	1.0			Initial Weight/Volume:	10.5696 g
Date Analyzed:	05/27/2010 1539			Final Weight/Volume:	10 mL
Date Prepared:	05/26/2010 1516			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Naphthalene		ND		32
2-Methylnaphthalene		ND		32
1-Methylnaphthalene		ND		48
Acenaphthylene		ND		32
Acenaphthene		ND		32
Fluorene		40		32
Phenanthrene		ND		32
Anthracene		ND		32
Fluoranthene		ND		32
Pyrene		ND		32
Benzo[a]anthracene		ND		40
Chrysene		ND		40
Benzo[b]fluoranthene		ND		32
Benzo[k]fluoranthene		ND		40
Benzo[a]pyrene		ND		48
Indeno[1,2,3-cd]pyrene		ND		64
Dibenz(a,h)anthracene		ND		64
Benzo[g,h,i]perylene		ND		40

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	86		38 - 141
2-Fluorobiphenyl	95		42 - 140
Terphenyl-d14	86		42 - 151

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **03HMST**

Lab Sample ID: 580-19399-24 Date Sampled: 05/12/2010 1007
Client Matrix: Solid % Moisture: 31.4 Date Received: 05/18/2010 0950

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 580-64507		Instrument ID:	TAC002
Preparation:	3550B	Prep Batch: 580-64442		Lab File ID:	AT15216.D
Dilution:	1.0			Initial Weight/Volume:	10.4346 g
Date Analyzed:	05/27/2010 1559			Final Weight/Volume:	10 mL
Date Prepared:	05/26/2010 1516			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Naphthalene		ND		28
2-Methylnaphthalene		ND		28
1-Methylnaphthalene		ND		42
Acenaphthylene		ND		28
Acenaphthene		ND		28
Fluorene		ND		28
Phenanthrene		ND		28
Anthracene		ND		28
Fluoranthene		ND		28
Pyrene		ND		28
Benzo[a]anthracene		ND		35
Chrysene		ND		35
Benzo[b]fluoranthene		ND		28
Benzo[k]fluoranthene		ND		35
Benzo[a]pyrene		ND		42
Indeno[1,2,3-cd]pyrene		ND		56
Dibenz(a,h)anthracene		ND		56
Benzo[g,h,i]perylene		ND		35

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	86		38 - 141
2-Fluorobiphenyl	89		42 - 140
Terphenyl-d14	74		42 - 151

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **04HMST**

Lab Sample ID: 580-19399-25 Date Sampled: 05/12/2010 1015
Client Matrix: Solid % Moisture: 52.4 Date Received: 05/18/2010 0950

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 580-64507		Instrument ID:	TAC002
Preparation:	3550B	Prep Batch: 580-64442		Lab File ID:	AT15217.D
Dilution:	1.0			Initial Weight/Volume:	10.2374 g
Date Analyzed:	05/27/2010 1620			Final Weight/Volume:	10 mL
Date Prepared:	05/26/2010 1516			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	RL
Naphthalene		ND		41
2-Methylnaphthalene		ND		41
1-Methylnaphthalene		ND		62
Acenaphthylene		ND		41
Acenaphthene		ND		41
Fluorene		ND		41
Phenanthrene		ND		41
Anthracene		ND		41
Fluoranthene		ND		41
Pyrene		ND		41
Benzo[a]anthracene		ND		51
Chrysene		ND		51
Benzo[b]fluoranthene		ND		41
Benzo[k]fluoranthene		ND		51
Benzo[a]pyrene		ND		62
Indeno[1,2,3-cd]pyrene		ND		82
Dibenz(a,h)anthracene		ND		82
Benzo[g,h,i]perylene		ND		51

Surrogate	%Rec	Qualifier	Acceptance Limits
Nitrobenzene-d5	89		38 - 141
2-Fluorobiphenyl	96		42 - 140
Terphenyl-d14	79		42 - 151

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **02SMRT1**

Lab Sample ID: 580-19399-1 Date Sampled: 05/09/2010 1315
Client Matrix: Solid % Moisture: 16.3 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64514 Lab File ID: 072SMPL.D
Dilution: 10 Initial Weight/Volume: 1.0420 g
Date Analyzed: 05/27/2010 2046 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1212

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		0.70	^	0.23
Antimony		ND	^	0.23
Barium		47	^	0.23
Cadmium		ND		0.23
Chromium		390	^	0.23
Lead		3.8		0.23
Cobalt		110	^	0.23
Iron		47000		23
Manganese		760	^	0.57
Silver		ND		0.23
Thallium		ND		0.46
Vanadium		13		0.23
Aluminum		2300		34
Magnesium		200000		110
Potassium		250		110
Sodium		ND		110
Calcium		550		110

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64514 Lab File ID: 071SMPL.D
Dilution: 10 Initial Weight/Volume: 1.0420 g
Date Analyzed: 05/28/2010 1751 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1212

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		ND		0.23
Copper		4.5	^	0.23
Nickel		1900	^	0.23
Selenium		ND		0.57
Zinc		26	^	0.80

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64554 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64500 Lab File ID: 64500-HG.PRN
Dilution: 10 Initial Weight/Volume: 0.8031 g
Date Analyzed: 05/27/2010 1543 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1021

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		2.6		0.15

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **01SMSS**

Lab Sample ID: 580-19399-2 Date Sampled: 05/09/2010 0751
Client Matrix: Solid % Moisture: 29.3 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64514		Lab File ID:	073SMPL.D
Dilution:	10			Initial Weight/Volume:	1.2596 g
Date Analyzed:	05/27/2010 2053			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		16	^	0.22
Antimony		1.1	^	0.22
Barium		1800	^	0.22
Cadmium		0.37		0.22
Chromium		99	^	0.22
Lead		39		0.22
Cobalt		30	^	0.22
Iron		59000		22
Manganese		7400	^	0.56
Silver		ND		0.22
Thallium		ND		0.45
Vanadium		150		0.22
Aluminum		13000		34
Magnesium		14000		110
Potassium		2900		110
Sodium		150		110
Calcium		11000		110

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64514		Lab File ID:	072SMPL.D
Dilution:	10			Initial Weight/Volume:	1.2596 g
Date Analyzed:	05/28/2010 1757			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.48		0.22
Copper		170	^	0.22
Nickel		310	^	0.22
Selenium		0.82		0.56
Zinc		200	^	0.79

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64554		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64500		Lab File ID:	64500-HG.PRN
Dilution:	10			Initial Weight/Volume:	0.7163 g
Date Analyzed:	05/27/2010 1547			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1021				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		11		0.20

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **02SMSS**

Lab Sample ID: 580-19399-3 Date Sampled: 05/09/2010 0800
Client Matrix: Solid % Moisture: 16.0 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64514		Lab File ID:	074SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0462 g
Date Analyzed:	05/27/2010 2100			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		10	^	0.23
Antimony		1.4	^	0.23
Barium		330	^	0.23
Cadmium		0.24		0.23
Chromium		150	^	0.23
Lead		31		0.23
Cobalt		52	^	0.23
Iron		52000		23
Manganese		1500	^	0.57
Silver		ND		0.23
Thallium		ND		0.45
Vanadium		59		0.23
Aluminum		11000		34
Magnesium		15000		110
Potassium		1500		110
Sodium		ND		110
Calcium		2900		110

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64514		Lab File ID:	073SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0462 g
Date Analyzed:	05/28/2010 1803			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.57		0.23
Copper		58	^	0.23
Nickel		730	^	0.23
Selenium		0.63		0.57
Zinc		100	^	0.80

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64554		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64500		Lab File ID:	64500-HG.PRN
Dilution:	1000			Initial Weight/Volume:	0.7213 g
Date Analyzed:	05/27/2010 1414			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1021				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		49		16

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **01CSBG**

Lab Sample ID: 580-19399-4 Date Sampled: 05/08/2010 1700
Client Matrix: Solid % Moisture: 1.9 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64514		Lab File ID:	075SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0722 g
Date Analyzed:	05/27/2010 2107			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		7.2	^	0.19
Antimony		0.51	^	0.19
Barium		180	^	0.19
Cadmium		ND		0.19
Chromium		44	^	0.19
Lead		9.7		0.19
Cobalt		12	^	0.19
Iron		27000		19
Manganese		420	^	0.48
Silver		ND		0.19
Thallium		ND		0.38
Vanadium		38		0.19
Aluminum		13000		29
Magnesium		6900		95
Potassium		1700		95
Sodium		ND		95
Calcium		2800		95

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64514		Lab File ID:	074SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0722 g
Date Analyzed:	05/28/2010 1809			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.49		0.19
Copper		26	^	0.19
Nickel		59	^	0.19
Selenium		0.53		0.48
Zinc		58	^	0.67

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **03SMRT1**

Lab Sample ID: 580-19399-5 Date Sampled: 05/09/2010 1330
Client Matrix: Solid % Moisture: 9.1 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64514		Lab File ID:	076SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1184 g
Date Analyzed:	05/27/2010 2114			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		5.9	^	0.20
Antimony		0.51	^	0.20
Barium		200	^	0.20
Cadmium		ND		0.20
Chromium		280	^	0.20
Lead		15		0.20
Cobalt		73	^	0.20
Iron		58000		20
Manganese		760	^	0.49
Silver		ND		0.20
Thallium		ND		0.39
Vanadium		35		0.20
Aluminum		10000		30
Magnesium		100000		98
Potassium		1100		98
Sodium		ND		98
Calcium		4200		98

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64514		Lab File ID:	075SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1184 g
Date Analyzed:	05/28/2010 1815			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.30		0.20
Copper		25	^	0.20
Nickel		1300	^	0.20
Selenium		ND		0.49
Zinc		55	^	0.69

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64554		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64500		Lab File ID:	64500-HG.PRN
Dilution:	1000			Initial Weight/Volume:	0.5914 g
Date Analyzed:	05/27/2010 1423			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1021				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		160		19

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **04SMRT1**

Lab Sample ID: 580-19399-6 Date Sampled: 05/09/2010 1345
Client Matrix: Solid % Moisture: 8.3 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64514 Lab File ID: 077SMPL.D
Dilution: 10 Initial Weight/Volume: 1.3135 g
Date Analyzed: 05/27/2010 2121 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1212

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		4.1	^	0.17
Antimony		0.21	^	0.17
Barium		130	^	0.17
Cadmium		ND		0.17
Chromium		510	^	0.17
Lead		6.2		0.17
Cobalt		120	^	0.17
Iron		71000		17
Manganese		690	^	0.41
Silver		ND		0.17
Thallium		ND		0.33
Vanadium		37		0.17
Aluminum		12000		25
Magnesium		100000		83
Potassium		470		83
Sodium		ND		83
Calcium		1200		83

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64514 Lab File ID: 076SMPL.D
Dilution: 10 Initial Weight/Volume: 1.3135 g
Date Analyzed: 05/28/2010 1821 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1212

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.36		0.17
Copper		15	^	0.17
Nickel		2000	^	0.17
Selenium		ND		0.41
Zinc		45	^	0.58

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64554 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64500 Lab File ID: 64500-HG.PRN
Dilution: 1000 Initial Weight/Volume: 0.5813 g
Date Analyzed: 05/27/2010 1427 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1021

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		36		19

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **05SMRT1**

Lab Sample ID: 580-19399-7 Date Sampled: 05/09/2010 1355
Client Matrix: Solid % Moisture: 9.4 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64514 Lab File ID: 078SMPL.D
Dilution: 10 Initial Weight/Volume: 1.3011 g
Date Analyzed: 05/27/2010 2128 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1212

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		6.1	^	0.17
Antimony		0.46	^	0.17
Barium		240	^	0.17
Cadmium		ND		0.17
Chromium		280	^	0.17
Lead		20		0.17
Cobalt		65	^	0.17
Iron		48000		17
Manganese		840	^	0.42
Silver		ND		0.17
Thallium		ND		0.34
Vanadium		40		0.17
Aluminum		12000		25
Magnesium		74000		85
Potassium		940		85
Sodium		ND		85
Calcium		1200		85

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64514 Lab File ID: 077SMPL.D
Dilution: 10 Initial Weight/Volume: 1.3011 g
Date Analyzed: 05/28/2010 1828 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1212

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.43		0.17
Copper		30	^	0.17
Nickel		1100	^	0.17
Selenium		0.51		0.42
Zinc		65	^	0.59

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64554 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64500 Lab File ID: 64500-HG.PRN
Dilution: 1000 Initial Weight/Volume: 0.6533 g
Date Analyzed: 05/27/2010 1431 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1021

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		47		17

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **06SMRT1**

Lab Sample ID: 580-19399-8 Date Sampled: 05/09/2010 1405
Client Matrix: Solid % Moisture: 21.8 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64514 Lab File ID: 081SMPL.D
Dilution: 10 Initial Weight/Volume: 1.4866 g
Date Analyzed: 05/27/2010 2150 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1212

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		9.1	^	0.17
Antimony		0.52	^	0.17
Barium		360	^	0.17
Cadmium		ND		0.17
Chromium		340	^	0.17
Lead		11		0.17
Cobalt		74	^	0.17
Iron		55000		17
Manganese		1000	^	0.43
Silver		ND		0.17
Thallium		ND		0.34
Vanadium		54		0.17
Aluminum		18000		26
Magnesium		45000		86
Potassium		1300		86
Sodium		ND		86
Calcium		1100		86

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64514 Lab File ID: 080SMPL.D
Dilution: 10 Initial Weight/Volume: 1.4866 g
Date Analyzed: 05/28/2010 1846 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1212

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.55		0.17
Copper		30	^	0.17
Nickel		1000	^	0.17
Selenium		ND		0.43
Zinc		60	^	0.60

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64554 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64500 Lab File ID: 64500-HG.PRN
Dilution: 1000 Initial Weight/Volume: 0.7961 g
Date Analyzed: 05/27/2010 1444 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1021

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		130		16

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **03HMBG**

Lab Sample ID: 580-19399-9 Date Sampled: 05/16/2010 1245
Client Matrix: Solid % Moisture: 14.7 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64514		Lab File ID:	082SMPL.D
Dilution:	10			Initial Weight/Volume:	1.3686 g
Date Analyzed:	05/27/2010 2157			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		5.4	^	0.17
Antimony		0.41	^	0.17
Barium		100	^	0.17
Cadmium		ND		0.17
Chromium		130	^	0.17
Lead		10		0.17
Cobalt		25	^	0.17
Iron		32000		17
Manganese		480	^	0.43
Silver		ND		0.17
Thallium		ND		0.34
Vanadium		43		0.17
Aluminum		15000		26
Magnesium		13000		86
Potassium		970		86
Sodium		ND		86
Calcium		830		86

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64514		Lab File ID:	081SMPL.D
Dilution:	10			Initial Weight/Volume:	1.3686 g
Date Analyzed:	05/28/2010 1852			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.58		0.17
Copper		26	^	0.17
Nickel		250	^	0.17
Selenium		ND		0.43
Zinc		54	^	0.60

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **02CSBG**

Lab Sample ID: 580-19399-10 Date Sampled: 05/14/2010 1515
Client Matrix: Solid % Moisture: 10.6 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64514		Lab File ID:	083SMPL.D
Dilution:	10			Initial Weight/Volume:	1.2005 g
Date Analyzed:	05/27/2010 2204			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		6.9	^	0.19
Antimony		0.47	^	0.19
Barium		230	^	0.19
Cadmium		ND		0.19
Chromium		130	^	0.19
Lead		12		0.19
Cobalt		25	^	0.19
Iron		32000		19
Manganese		640	^	0.47
Silver		ND		0.19
Thallium		ND		0.37
Vanadium		45		0.19
Aluminum		14000		28
Magnesium		17000		93
Potassium		1300		93
Sodium		ND		93
Calcium		3000		93

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64514		Lab File ID:	082SMPL.D
Dilution:	10			Initial Weight/Volume:	1.2005 g
Date Analyzed:	05/28/2010 1858			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.48		0.19
Copper		36	^	0.19
Nickel		250	^	0.19
Selenium		0.74		0.47
Zinc		59	^	0.65

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **10SMSS**

Lab Sample ID: 580-19399-11 Date Sampled: 05/09/2010 1005
Client Matrix: Solid % Moisture: 7.9 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64514 Lab File ID: 084SMPL.D
Dilution: 10 Initial Weight/Volume: 1.2576 g
Date Analyzed: 05/27/2010 2211 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1212

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		7.6	^	0.17
Antimony		0.86	^	0.17
Barium		240	^	0.17
Cadmium		ND		0.17
Chromium		300	^	0.17
Lead		22		0.17
Cobalt		62	^	0.17
Iron		43000		17
Manganese		1200	^	0.43
Silver		ND		0.17
Thallium		ND		0.35
Vanadium		45		0.17
Aluminum		12000		26
Magnesium		37000		86
Potassium		950		86
Sodium		ND		86
Calcium		1600		86

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64514 Lab File ID: 083SMPL.D
Dilution: 10 Initial Weight/Volume: 1.2576 g
Date Analyzed: 05/28/2010 1904 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1212

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.45		0.17
Copper		32	^	0.17
Nickel		830	^	0.17
Selenium		ND		0.43
Zinc		58	^	0.60

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64554 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64500 Lab File ID: 64500-HG.PRN
Dilution: 1000 Initial Weight/Volume: 0.6465 g
Date Analyzed: 05/27/2010 1449 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1021

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		200		17

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **02HMBG**

Lab Sample ID: 580-19399-12 Date Sampled: 05/07/2010 0855
Client Matrix: Solid % Moisture: 6.1 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64514		Lab File ID:	085SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1960 g
Date Analyzed:	05/27/2010 2218			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		8.2	^	0.18
Antimony		0.22	^	0.18
Barium		130	^	0.18
Cadmium		ND		0.18
Chromium		870	^	0.18
Lead		3.2		0.18
Cobalt		84	^	0.18
Iron		52000		18
Manganese		680	^	0.45
Silver		ND		0.18
Thallium		ND		0.36
Vanadium		52		0.18
Aluminum		17000		27
Magnesium		65000		89
Potassium		420		89
Sodium		ND		89
Calcium		1800		89

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64514		Lab File ID:	084SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1960 g
Date Analyzed:	05/28/2010 1910			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.18		0.18
Copper		30	^	0.18
Nickel		1300	^	0.18
Selenium		ND		0.45
Zinc		36	^	0.62

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **03SMSS**

Lab Sample ID: 580-19399-13 Date Sampled: 05/09/2010 0815
Client Matrix: Solid % Moisture: 7.3 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64514		Lab File ID:	086SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0363 g
Date Analyzed:	05/27/2010 2225			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		7.5	^	0.21
Antimony		1.3	^	0.21
Barium		130	^	0.21
Cadmium		ND		0.21
Chromium		250	^	0.21
Lead		120		0.21
Cobalt		73	^	0.21
Iron		53000		21
Manganese		850	^	0.52
Silver		ND		0.21
Thallium		ND		0.42
Vanadium		43		0.21
Aluminum		9300		31
Magnesium		39000		100
Potassium		1200		100
Sodium		ND		100
Calcium		1300		100

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64514		Lab File ID:	085SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0363 g
Date Analyzed:	05/28/2010 1916			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.45		0.21
Copper		32	^	0.21
Nickel		1300	^	0.21
Selenium		0.71		0.52
Zinc		70	^	0.73

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64554		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64500		Lab File ID:	64500-HG.PRN
Dilution:	100			Initial Weight/Volume:	0.6885 g
Date Analyzed:	05/27/2010 1556			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1021				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		14		1.6

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **01SMRT2**

Lab Sample ID: 580-19399-14 Date Sampled: 05/09/2010 1500
Client Matrix: Solid % Moisture: 4.3 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64536		Lab File ID:	120SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0432 g
Date Analyzed:	05/28/2010 0228			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		5.0	^	0.20
Antimony		1.9	^	0.20
Barium		130	^	0.20
Cadmium		0.43		0.20
Chromium		1500	^	0.20
Lead		620		0.20
Cobalt		68	^	0.20
Iron		150000		20
Manganese		540	^	0.50
Silver		ND		0.20
Thallium		ND		0.40
Vanadium		61		0.20
Aluminum		11000		30
Magnesium		8000		100
Potassium		1200		100
Sodium		ND		100
Calcium		3700		100

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64536		Lab File ID:	119SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0432 g
Date Analyzed:	05/28/2010 2245			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.27		0.20
Copper		54	^	0.20
Nickel		740	^	0.20
Selenium		ND		0.50
Zinc		790	^	0.70

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64554		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64500		Lab File ID:	64500-HG.PRN
Dilution:	10000			Initial Weight/Volume:	0.6923 g
Date Analyzed:	05/27/2010 1607			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1021				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		4100		150

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **02SMRT2**

Lab Sample ID: 580-19399-15 Date Sampled: 05/09/2010 1510
Client Matrix: Solid % Moisture: 4.7 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64536		Lab File ID:	130SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0480 g
Date Analyzed:	05/28/2010 0339			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		11	^	0.20
Antimony		0.22	^	0.20
Barium		220	^	0.20
Cadmium		ND		0.20
Chromium		170	^	0.20
Lead		18		0.20
Cobalt		41	^	0.20
Iron		43000		20
Manganese		820	^	0.50
Silver		ND		0.20
Thallium		ND		0.40
Vanadium		50		0.20
Aluminum		17000		30
Magnesium		17000		100
Potassium		1100		100
Sodium		ND		100
Calcium		1400		100

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64536		Lab File ID:	129SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0480 g
Date Analyzed:	05/28/2010 2347			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.59		0.20
Copper		39	^	0.20
Nickel		440	^	0.20
Selenium		ND		0.50
Zinc		85	^	0.70

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64554		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64500		Lab File ID:	64500-HG.PRN
Dilution:	1000			Initial Weight/Volume:	0.7532 g
Date Analyzed:	05/27/2010 1503			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1021				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		30		14

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **03SMRT2**

Lab Sample ID: 580-19399-16 Date Sampled: 05/09/2010 1515
Client Matrix: Solid % Moisture: 10.7 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64536 Lab File ID: 131SMPL.D
Dilution: 10 Initial Weight/Volume: 1.0023 g
Date Analyzed: 05/28/2010 0347 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1352

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		9.9	^	0.22
Antimony		0.76	^	0.22
Barium		260	^	0.22
Cadmium		0.27		0.22
Chromium		130	^	0.22
Lead		140		0.22
Cobalt		27	^	0.22
Iron		42000		22
Manganese		750	^	0.56
Silver		ND		0.22
Thallium		ND		0.45
Vanadium		49		0.22
Aluminum		19000		34
Magnesium		9800		110
Potassium		1900		110
Sodium		ND		110
Calcium		2400		110

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64536 Lab File ID: 130SMPL.D
Dilution: 10 Initial Weight/Volume: 1.0023 g
Date Analyzed: 05/28/2010 2353 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1352

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.59		0.22
Copper		59	^	0.22
Nickel		220	^	0.22
Selenium		ND		0.56
Zinc		120	^	0.78

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64554 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64500 Lab File ID: 64500-HG.PRN
Dilution: 10000 Initial Weight/Volume: 0.8363 g
Date Analyzed: 05/27/2010 1611 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1021

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		920		130

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **04SMRT2**

Lab Sample ID: 580-19399-17 Date Sampled: 05/09/2010 1530
Client Matrix: Solid % Moisture: 5.7 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64536 Lab File ID: 132SMPL.D
Dilution: 10 Initial Weight/Volume: 1.1540 g
Date Analyzed: 05/28/2010 0354 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1352

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		7.1	^	0.18
Antimony		0.25	^	0.18
Barium		250	^	0.18
Cadmium		ND		0.18
Chromium		280	^	0.18
Lead		13		0.18
Cobalt		63	^	0.18
Iron		49000		18
Manganese		760	^	0.46
Silver		ND		0.18
Thallium		ND		0.37
Vanadium		45		0.18
Aluminum		14000		28
Magnesium		58000		92
Potassium		1300		92
Sodium		ND		92
Calcium		1500		92

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64536 Lab File ID: 131SMPL.D
Dilution: 10 Initial Weight/Volume: 1.1540 g
Date Analyzed: 05/28/2010 2359 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1352

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.47		0.18
Copper		32	^	0.18
Nickel		1100	^	0.18
Selenium		0.66		0.46
Zinc		89	^	0.64

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64554 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64500 Lab File ID: 64500-HG.PRN
Dilution: 1000 Initial Weight/Volume: 0.5282 g
Date Analyzed: 05/27/2010 1512 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1021

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		130		20

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **05SMRT2**

Lab Sample ID: 580-19399-18 Date Sampled: 05/09/2010 1537
Client Matrix: Solid % Moisture: 8.1 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64536 Lab File ID: 133SMPL.D
Dilution: 10 Initial Weight/Volume: 1.1608 g
Date Analyzed: 05/28/2010 0401 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1352

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		9.9	^	0.19
Antimony		0.22	^	0.19
Barium		300	^	0.19
Cadmium		ND		0.19
Chromium		200	^	0.19
Lead		16		0.19
Cobalt		37	^	0.19
Iron		42000		19
Manganese		1000	^	0.47
Silver		ND		0.19
Thallium		ND		0.37
Vanadium		47		0.19
Aluminum		18000		28
Magnesium		16000		94
Potassium		1200		94
Sodium		ND		94
Calcium		760		94

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64536 Lab File ID: 132SMPL.D
Dilution: 10 Initial Weight/Volume: 1.1608 g
Date Analyzed: 05/29/2010 0005 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1352

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.62		0.19
Copper		65	^	0.19
Nickel		430	^	0.19
Selenium		ND		0.47
Zinc		79	^	0.66

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64554 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64500 Lab File ID: 64500-HG.PRN
Dilution: 1000 Initial Weight/Volume: 0.8910 g
Date Analyzed: 05/27/2010 1516 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1021

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		100		12

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **06SMRT2**

Lab Sample ID: 580-19399-19 Date Sampled: 05/09/2010 1547
Client Matrix: Solid % Moisture: 20.0 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64536		Lab File ID:	134SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0178 g
Date Analyzed:	05/28/2010 0408			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		8.7	^	0.25
Antimony		0.79	^	0.25
Barium		340	^	0.25
Cadmium		0.30		0.25
Chromium		230	^	0.25
Lead		78		0.25
Cobalt		48	^	0.25
Iron		48000		25
Manganese		1000	^	0.61
Silver		ND		0.25
Thallium		ND		0.49
Vanadium		55		0.25
Aluminum		19000		37
Magnesium		18000		120
Potassium		2000		120
Sodium		ND		120
Calcium		2600		120

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64536		Lab File ID:	133SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0178 g
Date Analyzed:	05/29/2010 0011			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.63		0.25
Copper		55	^	0.25
Nickel		670	^	0.25
Selenium		0.69		0.61
Zinc		140	^	0.86

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64554		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64500		Lab File ID:	64500-HG.PRN
Dilution:	1000			Initial Weight/Volume:	0.5739 g
Date Analyzed:	05/27/2010 1521			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1021				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		97		22

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **01SMRT1**

Lab Sample ID: 580-19399-20 Date Sampled: 05/09/2010 1305
Client Matrix: Solid % Moisture: 13.4 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64536		Lab File ID:	135SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0800 g
Date Analyzed:	05/28/2010 0415			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		7.9	^	0.21
Antimony		0.27	^	0.21
Barium		190	^	0.21
Cadmium		ND		0.21
Chromium		240	^	0.21
Lead		24		0.21
Cobalt		61	^	0.21
Iron		46000		21
Manganese		800	^	0.53
Silver		ND		0.21
Thallium		ND		0.43
Vanadium		44		0.21
Aluminum		12000		32
Magnesium		44000		110
Potassium		1100		110
Sodium		ND		110
Calcium		1800		110

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64536		Lab File ID:	134SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0800 g
Date Analyzed:	05/29/2010 0017			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.41		0.21
Copper		28	^	0.21
Nickel		1000	^	0.21
Selenium		ND		0.53
Zinc		62	^	0.75

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64512		Lab File ID:	64538-HG.PRN
Dilution:	500			Initial Weight/Volume:	0.6132 g
Date Analyzed:	05/28/2010 1602			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1206				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		73		9.4

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **21HMSS**

Lab Sample ID: 580-19399-21 Date Sampled: 05/12/2010 0850
Client Matrix: Solid % Moisture: 23.6 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64536 Lab File ID: 136SMPL.D
Dilution: 10 Initial Weight/Volume: 1.1748 g
Date Analyzed: 05/28/2010 0422 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1352

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		6.8	^	0.22
Antimony		0.22	^	0.22
Barium		100	^	0.22
Cadmium		ND		0.22
Chromium		260	^	0.22
Lead		7.9		0.22
Cobalt		38	^	0.22
Iron		95000		22
Manganese		79	^	0.56
Silver		ND		0.22
Thallium		3.5	^	0.45
Vanadium		38		0.22
Aluminum		7800		33
Magnesium		2700		110
Potassium		610		110
Sodium		ND		110
Calcium		210		110

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64536 Lab File ID: 135SMPL.D
Dilution: 10 Initial Weight/Volume: 1.1748 g
Date Analyzed: 05/29/2010 0023 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1352

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		ND		0.22
Copper		40	^	0.22
Nickel		260	^	0.22
Selenium		0.64		0.56
Zinc		48	^	0.78

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64691 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64512 Lab File ID: 64538-HG.PRN
Dilution: 5000 Initial Weight/Volume: 0.5209 g
Date Analyzed: 05/28/2010 1607 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1206

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		1100		130

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **01HMST**

Lab Sample ID: 580-19399-22 Date Sampled: 05/05/2010 1000
Client Matrix: Solid % Moisture: 25.4 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64536		Lab File ID:	137SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1354 g
Date Analyzed:	05/28/2010 0429			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		1.2	^	0.24
Antimony		ND	^	0.24
Barium		27	^	0.24
Cadmium		ND		0.24
Chromium		890	^	0.24
Lead		8.1		0.24
Cobalt		140	^	0.24
Iron		75000		24
Manganese		1200	^	0.59
Silver		ND		0.24
Thallium		ND		0.47
Vanadium		26		0.24
Aluminum		2200		35
Magnesium		140000		120
Potassium		ND		120
Sodium		ND		120
Calcium		740		120

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64536		Lab File ID:	136SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1354 g
Date Analyzed:	05/29/2010 0029			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		ND		0.24
Copper		8.1	^	0.24
Nickel		2500	^	0.24
Selenium		ND		0.59
Zinc		41	^	0.83

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64512		Lab File ID:	64538-HG.PRN
Dilution:	500			Initial Weight/Volume:	0.6051 g
Date Analyzed:	05/28/2010 1611			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1206				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		110		11

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **02HMST**

Lab Sample ID: 580-19399-23 Date Sampled: 05/12/2010 1002
Client Matrix: Solid % Moisture: 40.5 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64536		Lab File ID:	138SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0692 g
Date Analyzed:	05/28/2010 0436			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		6.8	^	0.31
Antimony		0.46	^	0.31
Barium		190	^	0.31
Cadmium		ND		0.31
Chromium		200	^	0.31
Lead		120		0.31
Cobalt		30	^	0.31
Iron		30000		31
Manganese		540	^	0.79
Silver		ND		0.31
Thallium		ND		0.63
Vanadium		36		0.31
Aluminum		15000		47
Magnesium		21000		160
Potassium		1500		160
Sodium		160		160
Calcium		5000		160

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64536		Lab File ID:	137SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0692 g
Date Analyzed:	05/29/2010 0035			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.39		0.31
Copper		19	^	0.31
Nickel		410	^	0.31
Selenium		ND		0.79
Zinc		56	^	1.1

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64512		Lab File ID:	64538-HG.PRN
Dilution:	500			Initial Weight/Volume:	0.7518 g
Date Analyzed:	05/28/2010 1615			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1206				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		290		11

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **03HMST**

Lab Sample ID: 580-19399-24 Date Sampled: 05/12/2010 1007
Client Matrix: Solid % Moisture: 31.4 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64536		Lab File ID:	139SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1432 g
Date Analyzed:	05/28/2010 0443			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		ND	^	0.26
Antimony		ND	^	0.26
Barium		2.1	^	0.26
Cadmium		ND		0.26
Chromium		1.5	^	0.26
Lead		6.0		0.26
Cobalt		0.65	^	0.26
Iron		210		26
Manganese		5.8	^	0.64
Silver		ND		0.26
Thallium		ND		0.51
Vanadium		ND		0.26
Aluminum		110		38
Magnesium		560		130
Potassium		ND		130
Sodium		ND		130
Calcium		ND		130

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64536		Lab File ID:	138SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1432 g
Date Analyzed:	05/29/2010 0042			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		ND		0.26
Copper		1.2	^	0.26
Nickel		7.3	^	0.26
Selenium		ND		0.64
Zinc		ND	^	0.89

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64512		Lab File ID:	64538-HG.PRN
Dilution:	50000			Initial Weight/Volume:	0.8541 g
Date Analyzed:	05/28/2010 1620			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1206				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		7900		850

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **04HMST**

Lab Sample ID: 580-19399-25 Date Sampled: 05/12/2010 1015
Client Matrix: Solid % Moisture: 52.4 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64536		Lab File ID:	142SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0748 g
Date Analyzed:	05/28/2010 0505			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		ND	^	0.39
Antimony		ND	^	0.39
Barium		4.9	^	0.39
Cadmium		ND		0.39
Chromium		1.5	^	0.39
Lead		6.8		0.39
Cobalt		0.84	^	0.39
Iron		140		39
Manganese		14	^	0.98
Silver		ND		0.39
Thallium		ND		0.78
Vanadium		ND		0.39
Aluminum		ND		59
Magnesium		590		200
Potassium		230		200
Sodium		ND		200
Calcium		600		200

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64536		Lab File ID:	141SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0748 g
Date Analyzed:	05/29/2010 0100			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		ND		0.39
Copper		0.46	^	0.39
Nickel		9.0	^	0.39
Selenium		ND		0.98
Zinc		ND	^	1.4

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64512		Lab File ID:	64538-HG.PRN
Dilution:	50000			Initial Weight/Volume:	0.5833 g
Date Analyzed:	05/28/2010 1624			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1206				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		4300		1800

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **11SMSS**

Lab Sample ID: 580-19399-26 Date Sampled: 05/09/2010 1011
Client Matrix: Solid % Moisture: 2.9 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64536		Lab File ID:	143SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0233 g
Date Analyzed:	05/28/2010 0512			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		ND	^	0.20
Antimony		ND	^	0.20
Barium		13	^	0.20
Cadmium		ND		0.20
Chromium		0.53	^	0.20
Lead		1.3		0.20
Cobalt		0.32	^	0.20
Iron		79		20
Manganese		35	^	0.50
Silver		ND		0.20
Thallium		ND		0.40
Vanadium		ND		0.20
Aluminum		63		30
Magnesium		180		100
Potassium		180		100
Sodium		ND		100
Calcium		140		100

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64536		Lab File ID:	142SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0233 g
Date Analyzed:	05/29/2010 0106			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		ND		0.20
Copper		2.2	^	0.20
Nickel		2.8	^	0.20
Selenium		ND		0.50
Zinc		2.9	^	0.70

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64512		Lab File ID:	64538-HG.PRN
Dilution:	500			Initial Weight/Volume:	0.9052 g
Date Analyzed:	05/28/2010 1629			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1206				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		45		5.7

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **12SMSS**

Lab Sample ID: 580-19399-27 Date Sampled: 05/09/2010 1025
Client Matrix: Solid % Moisture: 11.9 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64536		Lab File ID:	144SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0265 g
Date Analyzed:	05/28/2010 0519			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		ND	^	0.22
Antimony		ND	^	0.22
Barium		7.4	^	0.22
Cadmium		ND		0.22
Chromium		0.56	^	0.22
Lead		0.94		0.22
Cobalt		0.31	^	0.22
Iron		190		22
Manganese		12	^	0.55
Silver		ND		0.22
Thallium		ND		0.44
Vanadium		0.45		0.22
Aluminum		220		33
Magnesium		170		110
Potassium		130		110
Sodium		ND		110
Calcium		ND		110

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64536		Lab File ID:	143SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0265 g
Date Analyzed:	05/29/2010 0112			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		ND		0.22
Copper		1.5	^	0.22
Nickel		2.3	^	0.22
Selenium		ND		0.55
Zinc		2.0	^	0.77

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64512		Lab File ID:	64538-HG.PRN
Dilution:	500			Initial Weight/Volume:	0.6307 g
Date Analyzed:	05/28/2010 1633			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1206				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		50		9.0

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **13SMSS**

Lab Sample ID: 580-19399-28 Date Sampled: 05/10/2010 0815
Client Matrix: Solid % Moisture: 14.1 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64536 Lab File ID: 145SMPL.D
Dilution: 10 Initial Weight/Volume: 1.1738 g
Date Analyzed: 05/28/2010 0526 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1352

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		8.8	^	0.20
Antimony		0.34	^	0.20
Barium		210	^	0.20
Cadmium		ND		0.20
Chromium		320	^	0.20
Lead		29		0.20
Cobalt		82	^	0.20
Iron		50000		20
Manganese		980	^	0.50
Silver		ND		0.20
Thallium		ND		0.40
Vanadium		46		0.20
Aluminum		11000		30
Magnesium		18000		99
Potassium		1200		99
Sodium		ND		99
Calcium		1100		99

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64536 Lab File ID: 144SMPL.D
Dilution: 10 Initial Weight/Volume: 1.1738 g
Date Analyzed: 05/29/2010 0119 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1352

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.51		0.20
Copper		29	^	0.20
Nickel		1100	^	0.20
Selenium		ND		0.50
Zinc		57	^	0.69

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64691 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64512 Lab File ID: 64538-HG.PRN
Dilution: 500 Initial Weight/Volume: 0.8872 g
Date Analyzed: 05/28/2010 1637 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1206

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		140		6.6

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **14SMSS**

Lab Sample ID: 580-19399-29 Date Sampled: 05/10/2010 0830
Client Matrix: Solid % Moisture: 15.2 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64536		Lab File ID:	146SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0467 g
Date Analyzed:	05/28/2010 0533			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		5.4	^	0.23
Antimony		0.26	^	0.23
Barium		120	^	0.23
Cadmium		ND		0.23
Chromium		470	^	0.23
Lead		5.0		0.23
Cobalt		130	^	0.23
Iron		65000		23
Manganese		1000	^	0.56
Silver		ND		0.23
Thallium		ND		0.45
Vanadium		43		0.23
Aluminum		12000		34
Magnesium		16000		110
Potassium		1100		110
Sodium		ND		110
Calcium		800		110

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64536		Lab File ID:	145SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0467 g
Date Analyzed:	05/29/2010 0125			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.35		0.23
Copper		15	^	0.23
Nickel		1900	^	0.23
Selenium		0.92		0.56
Zinc		44	^	0.79

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64691		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64512		Lab File ID:	64538-HG.PRN
Dilution:	500			Initial Weight/Volume:	0.8754 g
Date Analyzed:	05/28/2010 1642			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1206				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		64		6.7

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **15SMSS**

Lab Sample ID: 580-19399-30 Date Sampled: 05/10/2010 0845
Client Matrix: Solid % Moisture: 6.2 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64536 Lab File ID: 147SMPL.D
Dilution: 10 Initial Weight/Volume: 1.0486 g
Date Analyzed: 05/28/2010 0541 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1352

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		14	^	0.20
Antimony		0.42	^	0.20
Barium		190	^	0.20
Cadmium		0.20		0.20
Chromium		120	^	0.20
Lead		20		0.20
Cobalt		27	^	0.20
Iron		41000		20
Manganese		610	^	0.51
Silver		ND		0.20
Thallium		ND		0.41
Vanadium		54		0.20
Aluminum		16000		31
Magnesium		13000		100
Potassium		1700		100
Sodium		ND		100
Calcium		2200		100

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64536 Lab File ID: 146SMPL.D
Dilution: 10 Initial Weight/Volume: 1.0486 g
Date Analyzed: 05/29/2010 0131 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1352

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.59		0.20
Copper		41	^	0.20
Nickel		290	^	0.20
Selenium		ND		0.51
Zinc		97	^	0.71

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64691 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64512 Lab File ID: 64538-HG.PRN
Dilution: 10 Initial Weight/Volume: 0.9205 g
Date Analyzed: 05/28/2010 1656 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1206

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		3.4		0.12

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **16SMSS**

Lab Sample ID: 580-19399-31 Date Sampled: 05/10/2010 0855
Client Matrix: Solid % Moisture: 17.1 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64541 Lab File ID: 152SMPL.D
Dilution: 10 Initial Weight/Volume: 1.0876 g
Date Analyzed: 05/28/2010 0617 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1444

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		6.2	^	0.22
Antimony		0.81	^	0.22
Barium		130	^	0.22
Cadmium		ND		0.22
Chromium		460	^	0.22
Lead		5.2		0.22
Cobalt		140	^	0.22
Iron		76000		22
Manganese		1000	^	0.55
Silver		ND		0.22
Thallium		ND		0.44
Vanadium		39		0.22
Aluminum		12000		33
Magnesium		20000		110
Potassium		960		110
Sodium		ND		110
Calcium		630		110

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64541 Lab File ID: 151SMPL.D
Dilution: 10 Initial Weight/Volume: 1.0876 g
Date Analyzed: 05/29/2010 0201 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1444

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.37		0.22
Copper		13	^	0.22
Nickel		2200	^	0.22
Selenium		0.81		0.55
Zinc		48	^	0.78

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64691 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64512 Lab File ID: 64538-HG.PRN
Dilution: 500 Initial Weight/Volume: 0.7031 g
Date Analyzed: 05/28/2010 1700 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1206

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		110		8.6

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Client Sample ID: **17SMSS**

Lab Sample ID: 580-19399-32 Date Sampled: 05/10/2010 0905
Client Matrix: Solid % Moisture: 13.8 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64541 Lab File ID: 162SMPL.D
Dilution: 10 Initial Weight/Volume: 1.1010 g
Date Analyzed: 05/28/2010 0728 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1444

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		4.8	^	0.21
Antimony		0.79	^	0.21
Barium		130	^	0.21
Cadmium		ND		0.21
Chromium		540	^	0.21
Lead		7.6		0.21
Cobalt		160	^	0.21
Iron		76000		21
Manganese		1200	^	0.53
Silver		ND		0.21
Thallium		ND		0.42
Vanadium		37		0.21
Aluminum		11000		32
Magnesium		9200		110
Potassium		1200		110
Sodium		110		110
Calcium		670		110

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64541 Lab File ID: 161SMPL.D
Dilution: 10 Initial Weight/Volume: 1.1010 g
Date Analyzed: 05/29/2010 0303 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1444

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.33		0.21
Copper		14	^	0.21
Nickel		1900	^	0.21
Selenium		ND		0.53
Zinc		46	^	0.74

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64691 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64512 Lab File ID: 64538-HG.PRN
Dilution: 100 Initial Weight/Volume: 0.8068 g
Date Analyzed: 05/28/2010 1704 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1206

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		18		1.4

General Chemistry

Client Sample ID: **02SMRT1**

Lab Sample ID: 580-19399-1 Date Sampled: 05/09/2010 1315
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	84		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N
Percent Moisture	16		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N

General Chemistry

Client Sample ID: **01SMSS**

Lab Sample ID: 580-19399-2 Date Sampled: 05/09/2010 0751
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	71		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N
Percent Moisture	29		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N

General Chemistry

Client Sample ID: **02SMSS**

Lab Sample ID: 580-19399-3 Date Sampled: 05/09/2010 0800
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	84		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N
Percent Moisture	16		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N

General Chemistry

Client Sample ID: **01CSBG**

Lab Sample ID: 580-19399-4 Date Sampled: 05/08/2010 1700

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	98		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N
Percent Moisture	1.9		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N

General Chemistry

Client Sample ID: **03SMRT1**

Lab Sample ID: 580-19399-5 Date Sampled: 05/09/2010 1330
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	91		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N
Percent Moisture	9.1		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N

General Chemistry

Client Sample ID: **04SMRT1**

Lab Sample ID: 580-19399-6 Date Sampled: 05/09/2010 1345
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	92		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N
Percent Moisture	8.3		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N

General Chemistry

Client Sample ID: **05SMRT1**

Lab Sample ID: 580-19399-7 Date Sampled: 05/09/2010 1355
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	91		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N
Percent Moisture	9.4		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N

General Chemistry

Client Sample ID: **06SMRT1**

Lab Sample ID: 580-19399-8 Date Sampled: 05/09/2010 1405
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	78		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N
Percent Moisture	22		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N

General Chemistry

Client Sample ID: **03HMBG**

Lab Sample ID: 580-19399-9 Date Sampled: 05/16/2010 1245
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	85		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N
Percent Moisture	15		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N

General Chemistry

Client Sample ID: **02CSBG**

Lab Sample ID: 580-19399-10 Date Sampled: 05/14/2010 1515
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	89		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N
Percent Moisture	11		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N

General Chemistry

Client Sample ID: **10SMSS**

Lab Sample ID: 580-19399-11 Date Sampled: 05/09/2010 1005
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	92		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N
Percent Moisture	7.9		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N

General Chemistry

Client Sample ID: **02HMBG**

Lab Sample ID: 580-19399-12 Date Sampled: 05/07/2010 0855
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	94		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N
Percent Moisture	6.1		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N

General Chemistry

Client Sample ID: **03SMSS**

Lab Sample ID: 580-19399-13 Date Sampled: 05/09/2010 0815
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	93		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N
Percent Moisture	7.3		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N

General Chemistry

Client Sample ID: **01SMRT2**

Lab Sample ID: 580-19399-14 Date Sampled: 05/09/2010 1500
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	96		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N
Percent Moisture	4.3		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N

General Chemistry

Client Sample ID: **02SMRT2**

Lab Sample ID: 580-19399-15 Date Sampled: 05/09/2010 1510
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	95		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N
Percent Moisture	4.7		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N

General Chemistry

Client Sample ID: **03SMRT2**

Lab Sample ID: 580-19399-16 Date Sampled: 05/09/2010 1515
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	89		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N
Percent Moisture	11		%	0.10	1.0	Moisture
Analysis Batch: 580-64078	Date Analyzed: 05/21/2010 1057					DryWt Corrected: N

General Chemistry

Client Sample ID: **04SMRT2**

Lab Sample ID: 580-19399-17 Date Sampled: 05/09/2010 1530
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	94		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N
Percent Moisture	5.7		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N

General Chemistry

Client Sample ID: **05SMRT2**

Lab Sample ID: 580-19399-18 Date Sampled: 05/09/2010 1537
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	92		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N
Percent Moisture	8.1		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N

General Chemistry

Client Sample ID: **06SMRT2**

Lab Sample ID: 580-19399-19 Date Sampled: 05/09/2010 1547
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	80		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N
Percent Moisture	20		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N

General Chemistry

Client Sample ID: **01SMRT1**

Lab Sample ID: 580-19399-20 Date Sampled: 05/09/2010 1305

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	87		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N
Percent Moisture	13		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N

General Chemistry

Client Sample ID: **21HMSS**

Lab Sample ID: 580-19399-21 Date Sampled: 05/12/2010 0850

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	76		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N
Percent Moisture	24		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N

General Chemistry

Client Sample ID: **01HMST**

Lab Sample ID: 580-19399-22 Date Sampled: 05/05/2010 1000
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	75		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N
Percent Moisture	25		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N

General Chemistry

Client Sample ID: **02HMST**

Lab Sample ID: 580-19399-23 Date Sampled: 05/12/2010 1002

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	59		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N
Percent Moisture	41		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N

General Chemistry

Client Sample ID: **03HMST**

Lab Sample ID: 580-19399-24 Date Sampled: 05/12/2010 1007

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	69		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N
Percent Moisture	31		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N

General Chemistry

Client Sample ID: **04HMST**

Lab Sample ID: 580-19399-25 Date Sampled: 05/12/2010 1015

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	48		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N
Percent Moisture	52		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N

General Chemistry

Client Sample ID: **11SMSS**

Lab Sample ID: 580-19399-26 Date Sampled: 05/09/2010 1011

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	97		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N
Percent Moisture	2.9		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N

General Chemistry

Client Sample ID: **12SMSS**

Lab Sample ID: 580-19399-27 Date Sampled: 05/09/2010 1025
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	88		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N
Percent Moisture	12		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N

General Chemistry

Client Sample ID: **13SMSS**

Lab Sample ID: 580-19399-28 Date Sampled: 05/10/2010 0815

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	86		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N
Percent Moisture	14		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N

General Chemistry

Client Sample ID: **14SMSS**

Lab Sample ID: 580-19399-29 Date Sampled: 05/10/2010 0830
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	85		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N
Percent Moisture	15		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N

General Chemistry

Client Sample ID: **15SMSS**

Lab Sample ID: 580-19399-30 Date Sampled: 05/10/2010 0845
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	94		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N
Percent Moisture	6.2		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N

General Chemistry

Client Sample ID: **16SMSS**

Lab Sample ID: 580-19399-31 Date Sampled: 05/10/2010 0855

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	83		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N
Percent Moisture	17		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N

General Chemistry

Client Sample ID: **17SMSS**

Lab Sample ID: 580-19399-32 Date Sampled: 05/10/2010 0905

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	86		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N
Percent Moisture	14		%	0.10	1.0	Moisture
Analysis Batch: 580-64079	Date Analyzed: 05/21/2010 1058					DryWt Corrected: N

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Surrogate Recovery Report

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	NBZ %Rec	FBP %Rec	TPH %Rec
580-19399-22	01HMST	83	93	85
580-19399-23	02HMST	86	95	86
580-19399-24	03HMST	86	89	74
580-19399-25	04HMST	89	96	79
MB 580-64442/1-A		84	99	83
LCS 580-64442/2-A		87	97	83
580-19399-22 MS	01HMST MS	82	86	75
580-19399-22 MSD	01HMST MSD	88	87	74

Surrogate	Acceptance Limits
NBZ = Nitrobenzene-d5	38-141
FBP = 2-Fluorobiphenyl	42-140
TPH = Terphenyl-d14	42-151

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Method Blank - Batch: 580-64442

Method: 8270C
Preparation: 3550B

Lab Sample ID:	MB 580-64442/1-A	Analysis Batch:	580-64507	Instrument ID:	TAC002
Client Matrix:	Solid	Prep Batch:	580-64442	Lab File ID:	AT15210.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	10 g
Date Analyzed:	05/27/2010 1358			Final Weight/Volume:	10 mL
Date Prepared:	05/26/2010 1516			Injection Volume:	1 uL

Analyte	Result	Qual	RL
Naphthalene	ND		20
2-Methylnaphthalene	ND		20
1-Methylnaphthalene	ND		30
Acenaphthylene	ND		20
Acenaphthene	ND		20
Fluorene	ND		20
Phenanthrene	ND		20
Anthracene	ND		20
Fluoranthene	ND		20
Pyrene	ND		20
Benzo[a]anthracene	ND		25
Chrysene	ND		25
Benzo[b]fluoranthene	ND		20
Benzo[k]fluoranthene	ND		25
Benzo[a]pyrene	ND		30
Indeno[1,2,3-cd]pyrene	ND		40
Dibenz(a,h)anthracene	ND		40
Benzo[g,h,i]perylene	ND		25

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	84	38 - 141
2-Fluorobiphenyl	99	42 - 140
Terphenyl-d14	83	42 - 151

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Lab Control Sample - Batch: 580-64442

Method: 8270C
Preparation: 3550B

Lab Sample ID:	LCS 580-64442/2-A	Analysis Batch:	580-64507	Instrument ID:	TAC002
Client Matrix:	Solid	Prep Batch:	580-64442	Lab File ID:	AT15211.D
Dilution:	1.0	Units:	ug/Kg	Initial Weight/Volume:	10 g
Date Analyzed:	05/27/2010 1418			Final Weight/Volume:	10 mL
Date Prepared:	05/26/2010 1516			Injection Volume:	1 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Naphthalene	1000	1060	106	64 - 129	
2-Methylnaphthalene	1000	1230	122	65 - 125	
1-Methylnaphthalene	1000	1050	105	48 - 148	
Acenaphthylene	1000	1150	115	69 - 129	
Acenaphthene	1000	1050	105	65 - 130	
Fluorene	1000	1080	108	68 - 128	
Phenanthrene	1000	996	99	65 - 125	
Anthracene	1000	1070	107	73 - 123	
Fluoranthene	1000	1120	112	61 - 121	
Pyrene	1000	1050	105	54 - 134	
Benzo[a]anthracene	1000	1060	106	64 - 124	
Chrysene	1000	1010	101	71 - 126	
Benzo[b]fluoranthene	1000	1110	111	66 - 136	
Benzo[k]fluoranthene	1000	1120	112	63 - 143	
Benzo[a]pyrene	1000	1100	110	68 - 128	
Indeno[1,2,3-cd]pyrene	1000	1050	105	59 - 139	
Dibenz(a,h)anthracene	1000	1110	111	57 - 142	
Benzo[g,h,i]perylene	1000	1090	108	57 - 142	

Surrogate	% Rec	Acceptance Limits
Nitrobenzene-d5	87	38 - 141
2-Fluorobiphenyl	97	42 - 140
Terphenyl-d14	83	42 - 151

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-64442

Method: 8270C
Preparation: 3550B

MS Lab Sample ID:	580-19399-22	Analysis Batch:	580-64507	Instrument ID:	TAC002
Client Matrix:	Solid	Prep Batch:	580-64442	Lab File ID:	AT15213.D
Dilution:	1.0			Initial Weight/Volume:	10.4993 g
Date Analyzed:	05/27/2010 1459			Final Weight/Volume:	10 mL
Date Prepared:	05/26/2010 1516			Injection Volume:	1 uL

MSD Lab Sample ID:	580-19399-22	Analysis Batch:	580-64507	Instrument ID:	TAC002
Client Matrix:	Solid	Prep Batch:	580-64442	Lab File ID:	AT15214.D
Dilution:	1.0			Initial Weight/Volume:	10.1214 g
Date Analyzed:	05/27/2010 1519			Final Weight/Volume:	10 mL
Date Prepared:	05/26/2010 1516			Injection Volume:	1 uL

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Naphthalene	100	105	64 - 129	9	26	H	H
2-Methylnaphthalene	115	116	65 - 125	4	27	H	H
1-Methylnaphthalene	98	110	48 - 148	16	30	H	H
Acenaphthylene	103	116	69 - 129	15	28	H	H
Acenaphthene	104	106	65 - 130	6	27	H	H
Fluorene	104	109	68 - 128	8	31	H	H
Phenanthrene	101	99	65 - 125	2	28	H	H
Anthracene	109	106	73 - 123	1	27	H	H
Fluoranthene	110	113	61 - 121	6	36	H	H
Pyrene	106	102	54 - 134	0	31	H	H
Benzo[a]anthracene	102	99	64 - 124	1	27	H	H
Chrysene	95	92	71 - 126	0	26	H	H
Benzo[b]fluoranthene	112	105	66 - 136	3	31	H	H
Benzo[k]fluoranthene	115	106	63 - 143	4	31	H	H
Benzo[a]pyrene	107	102	68 - 128	1	30	H	H
Indeno[1,2,3-cd]pyrene	103	98	59 - 139	1	29	H	H
Dibenz(a,h)anthracene	107	97	57 - 142	7	30	H	H
Benzo[g,h,i]perylene	105	96	57 - 142	5	28	H	H

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Nitrobenzene-d5	82	88	38 - 141
2-Fluorobiphenyl	86	87	42 - 140
Terphenyl-d14	75	74	42 - 151

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 580-64442

Method: 8270C
Preparation: 3550B

MS Lab Sample ID:	580-19399-22	Units: ug/Kg	MSD Lab Sample ID:	580-19399-22
Client Matrix:	Solid		Client Matrix:	Solid
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	05/27/2010 1459		Date Analyzed:	05/27/2010 1519
Date Prepared:	05/26/2010 1516		Date Prepared:	05/26/2010 1516

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Naphthalene	ND	1280	1330	1280	H	1400	H
2-Methylnaphthalene	ND	1280	1330	1480	H	1540	H
1-Methylnaphthalene	ND	1280	1330	1250	H	1460	H
Acenaphthylene	ND	1280	1330	1320	H	1540	H
Acenaphthene	ND	1280	1330	1330	H	1410	H
Fluorene	ND	1280	1330	1330	H	1440	H
Phenanthrene	ND	1280	1330	1290	H	1310	H
Anthracene	ND	1280	1330	1400	H	1410	H
Fluoranthene	ND	1280	1330	1410	H	1500	H
Pyrene	ND	1280	1330	1350	H	1350	H
Benzo[a]anthracene	ND	1280	1330	1310	H	1320	H
Chrysene	ND	1280	1330	1230	H	1230	H
Benzo[b]fluoranthene	ND	1280	1330	1440	H	1400	H
Benzo[k]fluoranthene	ND	1280	1330	1460	H	1410	H
Benzo[a]pyrene	ND	1280	1330	1380	H	1360	H
Indeno[1,2,3-cd]pyrene	ND	1280	1330	1320	H	1310	H
Dibenz(a,h)anthracene	ND	1280	1330	1370	H	1280	H
Benzo[g,h,i]perylene	ND	1280	1330	1350	H	1280	H

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Method Blank - Batch: 580-64514

Method: 6020
Preparation: 3050B

Lab Sample ID: MB 580-64514/21-A
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/27/2010 1858
Date Prepared: 05/27/2010 1212

Analysis Batch: 580-64718
Prep Batch: 580-64514
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 057SMPL.D
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND	^	0.20
Antimony	ND	^	0.20
Barium	ND	^	0.20
Cadmium	ND		0.20
Chromium	ND	^	0.20
Lead	ND		0.20
Cobalt	ND	^	0.20
Iron	ND		20
Manganese	ND	^	0.50
Silver	ND		0.20
Thallium	ND		0.40
Vanadium	ND		0.20
Aluminum	ND		30
Magnesium	ND		100
Potassium	ND		100
Sodium	ND		100
Calcium	ND		100

Method Blank - Batch: 580-64514

Method: 6020
Preparation: 3050B

Lab Sample ID: MB 580-64514/21-A
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/28/2010 1619
Date Prepared: 05/27/2010 1212

Analysis Batch: 580-64756
Prep Batch: 580-64514
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 056SMPL.D
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Beryllium	ND		0.20
Copper	ND	^	0.20
Nickel	ND	^	0.20
Selenium	ND		0.50
Zinc	ND	^	0.70

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

LCS-Standard Reference Material - Batch:

Method: 6020
Preparation: 3050B

Lab Sample ID: LCSSRM 580-64514/24-A
Client Matrix: Solid
Dilution: 20
Date Analyzed: 05/27/2010 2003
Date Prepared: 05/27/2010 1212

Analysis Batch: 580-64718
Prep Batch: 580-64514
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 066SMPL
Initial Weight/Volume: 0.5119 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	225	252	112	71.1 - 128.9	^
Antimony	126	158	126	21.0 - 251.6	^
Barium	565	631	112	74.7 - 125.5	^
Cadmium	69.1	74.3	107	73.2 - 126.8	
Chromium	124	133	107	69.9 - 129.8	^
Lead	223	243	109	75.3 - 125.1	
Cobalt	115	131	114	74.5 - 126.1	^
Iron	17600	19400	110	41.6 - 159.1	
Manganese	368	397	108	75.8 - 124.5	^
Silver	35.2	40.2	114	65.6 - 134.4	
Thallium	173	195	113	68.8 - 131.2	
Vanadium	93.9	106	113	64.5 - 135.3	
Aluminum	10600	10900	103	46.0 - 153.8	
Magnesium	4260	4520	106	70.0 - 130.0	

LCS-Standard Reference Material - Batch:

Method: 6020
Preparation: 3050B

Lab Sample ID: LCSSRM 580-64514/24-A
Client Matrix: Solid
Dilution: 20
Date Analyzed: 05/28/2010 1714
Date Prepared: 05/27/2010 1212

Analysis Batch: 580-64756
Prep Batch: 580-64514
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 065SMPL
Initial Weight/Volume: 0.5119 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Beryllium	162	167	103	75.3 - 124.7	
Copper	66.7	74.0	111	73.2 - 126.8	^
Nickel	172	192	111	73.8 - 126.7	^
Selenium	147	166	113	67.1 - 132.7	
Zinc	349	388	111	72.2 - 127.8	^

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64514

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64514/22-A	Analysis Batch:	580-64718	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64514	Lab File ID:	064SMPL.D
Dilution:	50	Units:	mg/Kg	Initial Weight/Volume:	1.0 g
Date Analyzed:	05/27/2010 1949			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

LCSD Lab Sample ID:	LCSD 580-64514/23-A	Analysis Batch:	580-64718	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64514	Lab File ID:	065SMPL.D
Dilution:	50	Units:	mg/Kg	Initial Weight/Volume:	1.0 g
Date Analyzed:	05/27/2010 1956			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	102	102	80 - 120	0	35	^	^
Antimony	106	98	80 - 120	8	35	^	^
Barium	111	101	80 - 120	9	35	^	^
Cadmium	105	104	80 - 120	1	35		
Chromium	105	103	80 - 120	2	35	^	^
Lead	113	105	80 - 120	7	35		
Cobalt	105	105	80 - 120	0	35	^	^
Iron	105	102	80 - 120	3	35		
Manganese	105	104	80 - 120	1	35	^	^
Silver	112	102	80 - 120	9	35		
Thallium	108	101	80 - 120	6	35		
Vanadium	104	102	80 - 120	1	35		
Aluminum	96	98	80 - 120	2	35		
Magnesium	104	103	80 - 120	0	35		

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64514

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64514/22-A	Analysis Batch: 580-64756	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64514	Lab File ID: 063SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	05/28/2010 1702		Final Weight/Volume: 50 mL
Date Prepared:	05/27/2010 1212		

LCSD Lab Sample ID:	LCSD 580-64514/23-A	Analysis Batch: 580-64756	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64514	Lab File ID: 064SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	05/28/2010 1708		Final Weight/Volume: 50 mL
Date Prepared:	05/27/2010 1212		

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Beryllium	94	96	80 - 120	2	35		
Copper	106	105	80 - 120	1	35	^	^
Nickel	103	102	80 - 120	1	35	^	^
Selenium	100	103	80 - 120	4	35		
Zinc	103	103	80 - 120	1	35	^	^

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64514

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64514/22-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 580-64514/23-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	50			Dilution:	50
Date Analyzed:	05/27/2010 1949			Date Analyzed:	05/27/2010 1956
Date Prepared:	05/27/2010 1212			Date Prepared:	05/27/2010 1212

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Arsenic	200	200	204	^	204	^
Antimony	150	150	159	^	147	^
Barium	200	200	221	^	203	^
Cadmium	5.00	5.00	5.24		5.18	
Chromium	20.0	20.0	21.1	^	20.6	^
Lead	50.0	50.0	56.3		52.4	
Cobalt	50.0	50.0	52.6	^	52.6	^
Iron	1100	1100	1160		1130	
Manganese	50.0	50.0	52.4	^	51.8	^
Silver	30.0	30.0	33.5		30.6	
Thallium	200	200	215		203	
Vanadium	50.0	50.0	52.0		51.2	
Aluminum	200	200	192		196	
Magnesium	1000	1000	1040		1030	

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64514

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64514/22-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 580-64514/23-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	50			Dilution:	50
Date Analyzed:	05/28/2010 1702			Date Analyzed:	05/28/2010 1708
Date Prepared:	05/27/2010 1212			Date Prepared:	05/27/2010 1212

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Beryllium	5.00	5.00	4.71		4.78	
Copper	25.0	25.0	26.4	^	26.1	^
Nickel	50.0	50.0	51.4	^	50.9	^
Selenium	200	200	199		207	
Zinc	50.0	50.0	51.7	^	51.3	^

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Method Blank - Batch: 580-64536

Method: 6020
Preparation: 3050B

Lab Sample ID: MB 580-64536/21-A
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/28/2010 0214
Date Prepared: 05/27/2010 1352

Analysis Batch: 580-64718
Prep Batch: 580-64536
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 118SMPL.D
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND	^	0.20
Antimony	ND	^	0.20
Barium	ND	^	0.20
Cadmium	ND		0.20
Chromium	ND	^	0.20
Lead	ND		0.20
Cobalt	ND	^	0.20
Iron	ND		20
Manganese	ND	^	0.50
Silver	ND		0.20
Thallium	ND		0.40
Vanadium	ND		0.20
Aluminum	ND		30
Magnesium	ND		100
Potassium	ND		100
Sodium	ND		100
Calcium	ND		100

Method Blank - Batch: 580-64536

Method: 6020
Preparation: 3050B

Lab Sample ID: MB 580-64536/21-A
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/28/2010 2233
Date Prepared: 05/27/2010 1352

Analysis Batch: 580-64756
Prep Batch: 580-64536
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 117SMPL.D
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Beryllium	ND		0.20
Copper	ND	^	0.20
Nickel	ND	^	0.20
Selenium	ND		0.50
Zinc	ND	^	0.70

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

LCS-Standard Reference Material - Batch:

Method: 6020
Preparation: 3050B

Lab Sample ID: LCSSRM 580-64536/24-A
Client Matrix: Solid
Dilution: 20
Date Analyzed: 05/28/2010 0318
Date Prepared: 05/27/2010 1352

Analysis Batch: 580-64718
Prep Batch: 580-64536
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 127SMPL
Initial Weight/Volume: 0.5214 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	225	251	111	71.1 - 128.9	^
Antimony	126	165	131	21.0 - 251.6	^
Barium	565	648	115	74.7 - 125.5	^
Cadmium	69.1	77.2	112	73.2 - 126.8	
Chromium	124	139	112	69.9 - 129.8	^
Lead	223	243	109	75.3 - 125.1	
Cobalt	115	136	118	74.5 - 126.1	^
Iron	17600	19500	111	41.6 - 159.1	
Manganese	368	415	113	75.8 - 124.5	^
Silver	35.2	40.4	115	65.6 - 134.4	
Thallium	173	194	112	68.8 - 131.2	
Vanadium	93.9	109	116	64.5 - 135.3	
Aluminum	10600	11200	106	46.0 - 153.8	
Magnesium	4260	4700	110	70.0 - 130.0	

LCS-Standard Reference Material - Batch:

Method: 6020
Preparation: 3050B

Lab Sample ID: LCSSRM 580-64536/24-A
Client Matrix: Solid
Dilution: 20
Date Analyzed: 05/28/2010 2328
Date Prepared: 05/27/2010 1352

Analysis Batch: 580-64756
Prep Batch: 580-64536
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 126SMPL.
Initial Weight/Volume: 0.5214 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Beryllium	162	171	106	75.3 - 124.7	
Copper	66.7	75.5	113	73.2 - 126.8	^
Nickel	172	195	113	73.8 - 126.7	^
Selenium	147	159	108	67.1 - 132.7	
Zinc	349	396	114	72.2 - 127.8	^

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64536

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64536/22-A	Analysis Batch: 580-64718	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64536	Lab File ID: 125SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	05/28/2010 0304		Final Weight/Volume: 50 mL
Date Prepared:	05/27/2010 1352		

LCSD Lab Sample ID:	LCSD 580-64536/23-A	Analysis Batch: 580-64718	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64536	Lab File ID: 126SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	05/28/2010 0311		Final Weight/Volume: 50 mL
Date Prepared:	05/27/2010 1352		

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	102	101	80 - 120	0	35	^	^
Antimony	102	101	80 - 120	0	35	^	^
Barium	106	108	80 - 120	1	35	^	^
Cadmium	98	104	80 - 120	6	35		
Chromium	106	103	80 - 120	3	35	^	^
Lead	103	105	80 - 120	1	35		
Cobalt	107	106	80 - 120	1	35	^	^
Iron	103	101	80 - 120	3	35		
Manganese	107	107	80 - 120	1	35	^	^
Silver	104	105	80 - 120	1	35		
Thallium	99	100	80 - 120	1	35		
Vanadium	103	102	80 - 120	1	35		
Aluminum	98	96	80 - 120	2	35		
Magnesium	104	104	80 - 120	1	35		

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64536

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64536/22-A	Analysis Batch: 580-64756	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64536	Lab File ID: 124SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	05/28/2010 2316		Final Weight/Volume: 50 mL
Date Prepared:	05/27/2010 1352		

LCSD Lab Sample ID:	LCSD 580-64536/23-A	Analysis Batch: 580-64756	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64536	Lab File ID: 125SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	05/28/2010 2322		Final Weight/Volume: 50 mL
Date Prepared:	05/27/2010 1352		

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Beryllium	96	95	80 - 120	1	35		
Copper	107	104	80 - 120	2	35	^	^
Nickel	102	103	80 - 120	0	35	^	^
Selenium	96	103	80 - 120	7	35		
Zinc	103	108	80 - 120	5	35	^	^

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64536

Method: 6020
Preparation: 3050B

LCS Lab Sample ID: LCS 580-64536/22-A
Units: mg/Kg
Client Matrix: Solid
Dilution: 50
Date Analyzed: 05/28/2010 0304
Date Prepared: 05/27/2010 1352

LCSD Lab Sample ID: LCSD 580-64536/23-A
Client Matrix: Solid
Dilution: 50
Date Analyzed: 05/28/2010 0311
Date Prepared: 05/27/2010 1352

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Arsenic	200	200	203	^	202	^
Antimony	150	150	152	^	152	^
Barium	200	200	212	^	215	^
Cadmium	5.00	5.00	4.92		5.20	
Chromium	20.0	20.0	21.2	^	20.5	^
Lead	50.0	50.0	51.7		52.3	
Cobalt	50.0	50.0	53.6	^	53.0	^
Iron	1100	1100	1140		1110	
Manganese	50.0	50.0	53.6	^	53.3	^
Silver	30.0	30.0	31.1		31.4	
Thallium	200	200	198		201	
Vanadium	50.0	50.0	51.6		51.1	
Aluminum	200	200	195		192	
Magnesium	1000	1000	1040		1040	

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64536

Method: 6020
Preparation: 3050B

LCS Lab Sample ID: LCS 580-64536/22-A
Units: mg/Kg
Client Matrix: Solid
Dilution: 50
Date Analyzed: 05/28/2010 2316
Date Prepared: 05/27/2010 1352

LCSD Lab Sample ID: LCSD 580-64536/23-A
Client Matrix: Solid
Dilution: 50
Date Analyzed: 05/28/2010 2322
Date Prepared: 05/27/2010 1352

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Beryllium	5.00	5.00	4.78		4.74	
Copper	25.0	25.0	26.7	^	26.1	^
Nickel	50.0	50.0	51.2	^	51.4	^
Selenium	200	200	192		205	
Zinc	50.0	50.0	51.4	^	53.8	^

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-64536

Method: 6020
Preparation: 3050B

MS Lab Sample ID:	580-19399-14	Analysis Batch:	580-64718	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64536	Lab File ID:	122SMPL.D
Dilution:	50			Initial Weight/Volume:	1.0517 g
Date Analyzed:	05/28/2010 0242			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

MSD Lab Sample ID:	580-19399-14	Analysis Batch:	580-64718	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64536	Lab File ID:	123SMPL.D
Dilution:	50			Initial Weight/Volume:	1.0627 g
Date Analyzed:	05/28/2010 0249			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	96	101	75 - 125	4	35	^	^
Antimony	97	103	75 - 125	4	35	^	^
Barium	99	104	75 - 125	2	35	^	^
Cadmium	105	107	75 - 125	1	35		
Chromium	238	356	75 - 125	1	35	^ 4	^ 4
Lead	-24	9	75 - 125	3	35	4	4
Cobalt	100	105	75 - 125	2	35	^	^
Iron	-1390	-924	75 - 125	4	35	4	4
Manganese	107	127	75 - 125	2	35	^ 4	^ 4
Silver	101	107	75 - 125	5	35		
Thallium	100	105	75 - 125	3	35		
Vanadium	97	99	75 - 125	0	35		
Aluminum	226	319	75 - 125	2	35	4	4
Magnesium	98	120	75 - 125	2	35	4	4

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-64536

Method: 6020
Preparation: 3050B

MS Lab Sample ID:	580-19399-14	Analysis Batch:	580-64756	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64536	Lab File ID:	121SMPL.D
Dilution:	50			Initial Weight/Volume:	1.0517 g
Date Analyzed:	05/28/2010 2257			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

MSD Lab Sample ID:	580-19399-14	Analysis Batch:	580-64756	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64536	Lab File ID:	122SMPL.D
Dilution:	50			Initial Weight/Volume:	1.0627 g
Date Analyzed:	05/28/2010 2303			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1352				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Beryllium	92	99	75 - 125	5	35		
Copper	98	106	75 - 125	2	35	^	^
Nickel	95	134	75 - 125	2	35	^ 4	^ 4
Selenium	96	98	75 - 125	1	35		
Zinc	80	123	75 - 125	2	35	^ 4	^ 4

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 580-64536

Method: 6020
Preparation: 3050B

MS Lab Sample ID: 580-19399-14
Client Matrix: Solid
Dilution: 50
Date Analyzed: 05/28/2010 0242
Date Prepared: 05/27/2010 1352

Units: mg/Kg

MSD Lab Sample ID: 580-19399-14
Client Matrix: Solid
Dilution: 50
Date Analyzed: 05/28/2010 0249
Date Prepared: 05/27/2010 1352

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Arsenic	5.0	199	197	196	^	204	^
Antimony	1.9	149	148	147	^	153	^
Barium	130	199	197	325	^	333	^
Cadmium	0.43	4.97	4.92	5.65		5.71	
Chromium	1500	19.9	19.7	1510	^ 4	1530	^ 4
Lead	620	49.7	49.2	609	4	626	4
Cobalt	68	49.7	49.2	118	^	120	^
Iron	150000	1090	1080	133000	4	138000	4
Manganese	540	49.7	49.2	597	^ 4	606	^ 4
Silver	ND	29.8	29.5	30.1		31.7	
Thallium	ND	199	197	199		206	
Vanadium	61	49.7	49.2	110		110	
Aluminum	11000	199	197	11200	4	11400	4
Magnesium	8000	994	984	9020	4	9220	4

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 580-64536

Method: 6020
Preparation: 3050B

MS Lab Sample ID: 580-19399-14
Client Matrix: Solid
Dilution: 50
Date Analyzed: 05/28/2010 2257
Date Prepared: 05/27/2010 1352

Units: mg/Kg

MSD Lab Sample ID: 580-19399-14
Client Matrix: Solid
Dilution: 50
Date Analyzed: 05/28/2010 2303
Date Prepared: 05/27/2010 1352

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Beryllium	0.27	4.97	4.92	4.85		5.12	
Copper	54	24.8	24.6	78.3	^	80.0	^
Nickel	740	49.7	49.2	783	^ 4	802	^ 4
Selenium	ND	199	197	191		193	
Zinc	790	49.7	49.2	833	^ 4	854	^ 4

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Duplicate - Batch: 580-64536

Method: 6020
Preparation: 3050B

Lab Sample ID: 580-19399-14
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/28/2010 0235
Date Prepared: 05/27/2010 1352

Analysis Batch: 580-64718
Prep Batch: 580-64536
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 121SMPL.D
Initial Weight/Volume: 1.0577 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Arsenic	5.0	5.26	6	35	^
Antimony	1.9	1.94	3	35	^
Barium	130	132	3	35	^
Cadmium	0.43	0.409	5	35	
Chromium	1500	1490	2	35	^
Lead	620	626	1	35	
Cobalt	68	70.2	2	35	^
Iron	150000	152000	3	35	
Manganese	540	552	2	35	^
Silver	ND	ND	4	35	
Thallium	ND	ND	9	35	
Vanadium	61	62.5	2	35	
Aluminum	11000	11000	2	35	
Magnesium	8000	8250	3	35	
Potassium	1200	1190	0	35	
Sodium	ND	ND	3	35	
Calcium	3700	3760	1	35	

Duplicate - Batch: 580-64536

Method: 6020
Preparation: 3050B

Lab Sample ID: 580-19399-14
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/28/2010 2251
Date Prepared: 05/27/2010 1352

Analysis Batch: 580-64756
Prep Batch: 580-64536
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 120SMPL.D
Initial Weight/Volume: 1.0577 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Beryllium	0.27	0.263	1	35	
Copper	54	54.9	2	35	^
Nickel	740	750	2	35	^
Selenium	ND	0.500	69	35	
Zinc	790	819	3	35	^

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Method Blank - Batch: 580-64541

Method: 6020
Preparation: 3050B

Lab Sample ID: MB 580-64541/21-A
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/28/2010 0602
Date Prepared: 05/27/2010 1444

Analysis Batch: 580-64718
Prep Batch: 580-64541
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 150SMPL.D
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND	^	0.20
Antimony	ND	^	0.20
Barium	ND	^	0.20
Cadmium	ND		0.20
Chromium	ND	^	0.20
Lead	ND		0.20
Cobalt	ND	^	0.20
Iron	ND		20
Manganese	ND	^	0.50
Silver	ND		0.20
Thallium	ND		0.40
Vanadium	ND		0.20
Aluminum	ND		30
Magnesium	ND		100
Potassium	ND		100
Sodium	ND		100
Calcium	ND		100

Method Blank - Batch: 580-64541

Method: 6020
Preparation: 3050B

Lab Sample ID: MB 580-64541/21-A
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/29/2010 0149
Date Prepared: 05/27/2010 1444

Analysis Batch: 580-64756
Prep Batch: 580-64541
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 149SMPL.D
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Beryllium	ND		0.20
Copper	ND	^	0.20
Nickel	ND	^	0.20
Selenium	ND		0.50
Zinc	ND	^	0.70

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

LCS-Standard Reference Material - Batch:

Method: 6020
Preparation: 3050B

Lab Sample ID: LCSSRM 580-64541/24-A
Client Matrix: Solid
Dilution: 20
Date Analyzed: 05/28/2010 0707
Date Prepared: 05/27/2010 1444

Analysis Batch: 580-64718
Prep Batch: 580-64541
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 159SMPL
Initial Weight/Volume: 0.5352 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	225	242	108	71.1 - 128.9	^
Antimony	126	158	125	21.0 - 251.6	^
Barium	565	630	112	74.7 - 125.5	^
Cadmium	69.1	73.6	107	73.2 - 126.8	
Chromium	124	137	110	69.9 - 129.8	^
Lead	223	236	106	75.3 - 125.1	
Cobalt	115	133	116	74.5 - 126.1	^
Iron	17600	19000	108	41.6 - 159.1	
Manganese	368	403	110	75.8 - 124.5	^
Silver	35.2	39.1	111	65.6 - 134.4	
Thallium	173	189	109	68.8 - 131.2	
Vanadium	93.9	106	113	64.5 - 135.3	
Aluminum	10600	10500	99	46.0 - 153.8	
Magnesium	4260	4490	105	70.0 - 130.0	

LCS-Standard Reference Material - Batch:

Method: 6020
Preparation: 3050B

Lab Sample ID: LCSSRM 580-64541/24-A
Client Matrix: Solid
Dilution: 20
Date Analyzed: 05/29/2010 0244
Date Prepared: 05/27/2010 1444

Analysis Batch: 580-64756
Prep Batch: 580-64541
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 158SMPL.
Initial Weight/Volume: 0.5352 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Beryllium	162	160	99	75.3 - 124.7	
Copper	66.7	73.1	110	73.2 - 126.8	^
Nickel	172	190	110	73.8 - 126.7	^
Selenium	147	148	101	67.1 - 132.7	
Zinc	349	385	110	72.2 - 127.8	^

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64541

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64541/22-A	Analysis Batch: 580-64718	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64541	Lab File ID: 157SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	05/28/2010 0652		Final Weight/Volume: 50 mL
Date Prepared:	05/27/2010 1444		

LCSD Lab Sample ID:	LCSD 580-64541/23-A	Analysis Batch: 580-64718	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64541	Lab File ID: 158SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	05/28/2010 0659		Final Weight/Volume: 50 mL
Date Prepared:	05/27/2010 1444		

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	100	101	80 - 120	0	35	^	^
Antimony	101	100	80 - 120	1	35	^	^
Barium	105	106	80 - 120	1	35	^	^
Cadmium	101	103	80 - 120	3	35		
Chromium	104	105	80 - 120	1	35	^	^
Lead	104	106	80 - 120	2	35		
Cobalt	108	108	80 - 120	1	35	^	^
Iron	103	102	80 - 120	0	35		
Manganese	107	107	80 - 120	0	35	^	^
Silver	105	105	80 - 120	0	35		
Thallium	98	101	80 - 120	3	35		
Vanadium	103	105	80 - 120	2	35		
Aluminum	100	97	80 - 120	3	35		
Magnesium	106	104	80 - 120	1	35		

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64541

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64541/22-A	Analysis Batch: 580-64756	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64541	Lab File ID: 156SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	05/29/2010 0232		Final Weight/Volume: 50 mL
Date Prepared:	05/27/2010 1444		

LCSD Lab Sample ID:	LCSD 580-64541/23-A	Analysis Batch: 580-64756	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64541	Lab File ID: 157SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	05/29/2010 0238		Final Weight/Volume: 50 mL
Date Prepared:	05/27/2010 1444		

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Beryllium	92	95	80 - 120	3	35		
Copper	106	107	80 - 120	0	35	^	^
Nickel	105	104	80 - 120	1	35	^	^
Selenium	94	98	80 - 120	3	35		
Zinc	100	105	80 - 120	4	35	^	^

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64541

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64541/22-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 580-64541/23-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	50			Dilution:	50
Date Analyzed:	05/28/2010 0652			Date Analyzed:	05/28/2010 0659
Date Prepared:	05/27/2010 1444			Date Prepared:	05/27/2010 1444

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Arsenic	200	200	200	^	201	^
Antimony	150	150	152	^	150	^
Barium	200	200	210	^	212	^
Cadmium	5.00	5.00	5.03		5.16	
Chromium	20.0	20.0	20.8	^	21.0	^
Lead	50.0	50.0	51.8		53.1	
Cobalt	50.0	50.0	54.2	^	53.8	^
Iron	1100	1100	1130		1120	
Manganese	50.0	50.0	53.6	^	53.4	^
Silver	30.0	30.0	31.4		31.4	
Thallium	200	200	196		202	
Vanadium	50.0	50.0	51.6		52.6	
Aluminum	200	200	199		194	
Magnesium	1000	1000	1060		1040	

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64541

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64541/22-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 580-64541/23-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	50			Dilution:	50
Date Analyzed:	05/29/2010 0232			Date Analyzed:	05/29/2010 0238
Date Prepared:	05/27/2010 1444			Date Prepared:	05/27/2010 1444

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Beryllium	5.00	5.00	4.58		4.73	
Copper	25.0	25.0	26.6	^	26.7	^
Nickel	50.0	50.0	52.7	^	52.0	^
Selenium	200	200	189		195	
Zinc	50.0	50.0	50.2	^	52.3	^

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-64541

Method: 6020
Preparation: 3050B

MS Lab Sample ID:	580-19399-31	Analysis Batch:	580-64718	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64541	Lab File ID:	154SMPL.D
Dilution:	50			Initial Weight/Volume:	1.0268 g
Date Analyzed:	05/28/2010 0631			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

MSD Lab Sample ID:	580-19399-31	Analysis Batch:	580-64718	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64541	Lab File ID:	155SMPL.D
Dilution:	50			Initial Weight/Volume:	1.1273 g
Date Analyzed:	05/28/2010 0638			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	93	98	75 - 125	4	35	^	^
Antimony	87	90	75 - 125	5	35	^	^
Barium	95	96	75 - 125	5	35	^	^
Cadmium	98	103	75 - 125	4	35		
Chromium	175	44	75 - 125	7	35	^ 4	^ 4
Lead	99	103	75 - 125	5	35		
Cobalt	104	88	75 - 125	7	35	^	^
Iron	-69	-510	75 - 125	7	35	4	4
Manganese	213	88	75 - 125	7	35	^ 4	^ 4
Silver	99	102	75 - 125	6	35		
Thallium	98	102	75 - 125	5	35		
Vanadium	94	93	75 - 125	6	35		
Aluminum	557	153	75 - 125	8	35	4	4
Magnesium	203	62	75 - 125	8	35	4	4

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-64541

Method: 6020
Preparation: 3050B

MS Lab Sample ID:	580-19399-31	Analysis Batch:	580-64756	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64541	Lab File ID:	153SMPL.D
Dilution:	50			Initial Weight/Volume:	1.0268 g
Date Analyzed:	05/29/2010 0214			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

MSD Lab Sample ID:	580-19399-31	Analysis Batch:	580-64756	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64541	Lab File ID:	154SMPL.D
Dilution:	50			Initial Weight/Volume:	1.1273 g
Date Analyzed:	05/29/2010 0220			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1444				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Beryllium	90	91	75 - 125	8	35		
Copper	100	96	75 - 125	10	35	^	^
Nickel	340	125	75 - 125	6	35	^ 4	^ 4
Selenium	87	96	75 - 125	1	35		
Zinc	98	91	75 - 125	9	35	^	^

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 580-64541

Method: 6020
Preparation: 3050B

MS Lab Sample ID: 580-19399-31
Client Matrix: Solid
Dilution: 50
Date Analyzed: 05/28/2010 0631
Date Prepared: 05/27/2010 1444

Units: mg/Kg

MSD Lab Sample ID: 580-19399-31
Client Matrix: Solid
Dilution: 50
Date Analyzed: 05/28/2010 0638
Date Prepared: 05/27/2010 1444

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Arsenic	6.2	235	214	225	^	216	^
Antimony	0.81	176	160	153	^	145	^
Barium	130	235	214	354	^	335	^
Cadmium	ND	5.87	5.35	5.87		5.62	
Chromium	460	23.5	21.4	502	^ 4	471	^ 4
Lead	5.2	58.7	53.5	63.4		60.3	
Cobalt	140	58.7	53.5	198	^	184	^
Iron	76000	1290	1180	75300	4	70200	4
Manganese	1000	58.7	53.5	1130	^ 4	1050	^ 4
Silver	ND	35.2	32.1	34.9		32.7	
Thallium	ND	235	214	230		218	
Vanadium	39	58.7	53.5	94.5		89.2	
Aluminum	12000	235	214	13000	4	12000	4
Magnesium	20000	1170	1070	21900	4	20200	4

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 580-64541

Method: 6020
Preparation: 3050B

MS Lab Sample ID: 580-19399-31
Client Matrix: Solid
Dilution: 50
Date Analyzed: 05/29/2010 0214
Date Prepared: 05/27/2010 1444

Units: mg/Kg

MSD Lab Sample ID: 580-19399-31
Client Matrix: Solid
Dilution: 50
Date Analyzed: 05/29/2010 0220
Date Prepared: 05/27/2010 1444

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Beryllium	0.37	5.87	5.35	5.66		5.21	
Copper	13	29.4	26.7	42.7	^	38.8	^
Nickel	2200	58.7	53.5	2440	^ 4	2310	^ 4
Selenium	0.81	235	214	206		207	
Zinc	48	58.7	53.5	105	^	96.7	^

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Duplicate - Batch: 580-64541

Method: 6020
Preparation: 3050B

Lab Sample ID: 580-19399-31
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/28/2010 0624
Date Prepared: 05/27/2010 1444

Analysis Batch: 580-64718
Prep Batch: 580-64541
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 153SMPL.D
Initial Weight/Volume: 1.0772 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Arsenic	6.2	6.19	0	35	^
Antimony	0.81	0.825	2	35	^
Barium	130	130	0	35	^
Cadmium	ND	ND	12	35	
Chromium	460	466	1	35	^
Lead	5.2	5.22	1	35	
Cobalt	140	136	0	35	^
Iron	76000	77100	1	35	
Manganese	1000	1010	0	35	^
Silver	ND	ND	8	35	
Thallium	ND	ND	2	35	
Vanadium	39	39.4	0	35	
Aluminum	12000	11700	0	35	
Magnesium	20000	19800	2	35	
Potassium	960	969	0	35	
Sodium	ND	ND	2	35	
Calcium	630	635	1	35	

Duplicate - Batch: 580-64541

Method: 6020
Preparation: 3050B

Lab Sample ID: 580-19399-31
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/29/2010 0208
Date Prepared: 05/27/2010 1444

Analysis Batch: 580-64756
Prep Batch: 580-64541
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 152SMPL.D
Initial Weight/Volume: 1.0772 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Beryllium	0.37	0.351	4	35	
Copper	13	13.4	1	35	^
Nickel	2200	2280	2	35	^
Selenium	0.81	0.737	9	35	
Zinc	48	48.1	1	35	^

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Method Blank - Batch: 580-64500

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 580-64500/24-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/27/2010 1254
Date Prepared: 05/27/2010 1021

Analysis Batch: 580-64554
Prep Batch: 580-64500
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64500-HG.PRN
Initial Weight/Volume: 0.5 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Mercury	ND		0.020

LCS-Standard Reference Material - Batch:

Method: 7471A
Preparation: 7471A

Lab Sample ID: LCSSRM 580-64500/27-A
Client Matrix: Solid
Dilution: 2.0
Date Analyzed: 05/27/2010 1307
Date Prepared: 05/27/2010 1021

Analysis Batch: 580-64554
Prep Batch: 580-64500
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64500-HG.PRN
Initial Weight/Volume: 0.1302 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.15	4.97	96	80 - 120	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64500

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 580-64500/25-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/27/2010 1258
Date Prepared: 05/27/2010 1021

Analysis Batch: 580-64554
Prep Batch: 580-64500
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64500-HG.PRN
Initial Weight/Volume: .5 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 580-64500/26-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/27/2010 1303
Date Prepared: 05/27/2010 1021

Analysis Batch: 580-64554
Prep Batch: 580-64500
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64500-HG.PRN
Initial Weight/Volume: .5 g
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	96	98	75 - 125	2	25		

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64500

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID:	LCS 580-64500/25-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 580-64500/26-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	05/27/2010 1258			Date Analyzed:	05/27/2010 1303
Date Prepared:	05/27/2010 1021			Date Prepared:	05/27/2010 1021

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Mercury	0.200	0.200	0.192	0.195

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Method Blank - Batch: 580-64512

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 580-64512/19-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/28/2010 1512
Date Prepared: 05/27/2010 1206

Analysis Batch: 580-64691
Prep Batch: 580-64512
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64538-HG.PRN
Initial Weight/Volume: 0.5 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Mercury	ND		0.020

LCS-Standard Reference Material - Batch:

Method: 7471A
Preparation: 7471A

Lab Sample ID: LCSSRM 580-64512/22-A
Client Matrix: Solid
Dilution: 2.0
Date Analyzed: 05/28/2010 1526
Date Prepared: 05/27/2010 1206

Analysis Batch: 580-64691
Prep Batch: 580-64512
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64538-HG.PRN
Initial Weight/Volume: 0.1170 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.15	4.44	86	80 - 120	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64512

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 580-64512/20-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/28/2010 1517
Date Prepared: 05/27/2010 1206

Analysis Batch: 580-64691
Prep Batch: 580-64512
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64538-HG.PRN
Initial Weight/Volume: 0.5 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 580-64512/21-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/28/2010 1521
Date Prepared: 05/27/2010 1206

Analysis Batch: 580-64691
Prep Batch: 580-64512
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64538-HG.PRN
Initial Weight/Volume: 0.5 g
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	104	106	75 - 125	1	25		

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64512

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID:	LCS 580-64512/20-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 580-64512/21-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	05/28/2010 1517			Date Analyzed:	05/28/2010 1521
Date Prepared:	05/27/2010 1206			Date Prepared:	05/27/2010 1206

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Mercury	0.200	0.200	0.209	0.211

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Duplicate - Batch: 580-64078

Method: Moisture
Preparation: N/A

Lab Sample ID: 580-19399-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/21/2010 1057
Date Prepared: N/A

Analysis Batch: 580-64078
Prep Batch: N/A
Units: %

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	84	87	4	20	
Percent Moisture	16	13	23	20	F

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Duplicate - Batch: 580-64079

Method: Moisture
Preparation: N/A

Lab Sample ID: 580-19399-17
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/21/2010 1058
Date Prepared: N/A

Analysis Batch: 580-64079
Prep Batch: N/A
Units: %

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	94	94	0	20	
Percent Moisture	5.7	5.6	2	20	

DATA REPORTING QUALIFIERS

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	H	Sample was prepped or analyzed beyond the specified holding time
Metals		
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	W	PS: Post-digestion spike was outside control limits
	V	Serial Dilution exceeds the control limits
General Chemistry		
	F	Duplicate RPD exceeds the control limit

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 580-64442					
LCS 580-64442/2-A	Lab Control Sample	T	Solid	3550B	
MB 580-64442/1-A	Method Blank	T	Solid	3550B	
580-19399-22	01HMST	T	Solid	3550B	
580-19399-22MS	Matrix Spike	T	Solid	3550B	
580-19399-22MSD	Matrix Spike Duplicate	T	Solid	3550B	
580-19399-23	02HMST	T	Solid	3550B	
580-19399-24	03HMST	T	Solid	3550B	
580-19399-25	04HMST	T	Solid	3550B	
Analysis Batch:580-64507					
LCS 580-64442/2-A	Lab Control Sample	T	Solid	8270C	580-64442
MB 580-64442/1-A	Method Blank	T	Solid	8270C	580-64442
580-19399-22	01HMST	T	Solid	8270C	580-64442
580-19399-22MS	Matrix Spike	T	Solid	8270C	580-64442
580-19399-22MSD	Matrix Spike Duplicate	T	Solid	8270C	580-64442
580-19399-23	02HMST	T	Solid	8270C	580-64442
580-19399-24	03HMST	T	Solid	8270C	580-64442
580-19399-25	04HMST	T	Solid	8270C	580-64442

Report Basis

T = Total

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 580-64500					
LCS 580-64500/25-A	Lab Control Sample	T	Solid	7471A	
LCSD 580-64500/26-A	Lab Control Sample Duplicate	T	Solid	7471A	
LCSSRM 580-64500/27-A	LCS-Standard Reference Material	T	Solid	7471A	
MB 580-64500/24-A	Method Blank	T	Solid	7471A	
580-19399-1	02SMRT1	T	Solid	7471A	
580-19399-2	01SMSS	T	Solid	7471A	
580-19399-3	02SMSS	T	Solid	7471A	
580-19399-5	03SMRT1	T	Solid	7471A	
580-19399-6	04SMRT1	T	Solid	7471A	
580-19399-7	05SMRT1	T	Solid	7471A	
580-19399-8	06SMRT1	T	Solid	7471A	
580-19399-11	10SMSS	T	Solid	7471A	
580-19399-13	03SMSS	T	Solid	7471A	
580-19399-14	01SMRT2	T	Solid	7471A	
580-19399-15	02SMRT2	T	Solid	7471A	
580-19399-16	03SMRT2	T	Solid	7471A	
580-19399-17	04SMRT2	T	Solid	7471A	
580-19399-18	05SMRT2	T	Solid	7471A	
580-19399-19	06SMRT2	T	Solid	7471A	
Prep Batch: 580-64512					
LCS 580-64512/20-A	Lab Control Sample	T	Solid	7471A	
LCSD 580-64512/21-A	Lab Control Sample Duplicate	T	Solid	7471A	
LCSSRM 580-64512/22-A	LCS-Standard Reference Material	T	Solid	7471A	
MB 580-64512/19-A	Method Blank	T	Solid	7471A	
580-19399-20	01SMRT1	T	Solid	7471A	
580-19399-21	21HMSS	T	Solid	7471A	
580-19399-22	01HMST	T	Solid	7471A	
580-19399-23	02HMST	T	Solid	7471A	
580-19399-24	03HMST	T	Solid	7471A	
580-19399-25	04HMST	T	Solid	7471A	
580-19399-26	11SMSS	T	Solid	7471A	
580-19399-27	12SMSS	T	Solid	7471A	
580-19399-28	13SMSS	T	Solid	7471A	
580-19399-29	14SMSS	T	Solid	7471A	
580-19399-30	15SMSS	T	Solid	7471A	
580-19399-31	16SMSS	T	Solid	7471A	
580-19399-32	17SMSS	T	Solid	7471A	

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 580-64514					
LCS 580-64514/22-A	Lab Control Sample	T	Solid	3050B	
LCSD 580-64514/23-A	Lab Control Sample Duplicate	T	Solid	3050B	
LCSSRM 580-64514/24-A	LCS-Standard Reference Material	T	Solid	3050B	
MB 580-64514/21-A	Method Blank	T	Solid	3050B	
580-19399-1	02SMRT1	T	Solid	3050B	
580-19399-2	01SMSS	T	Solid	3050B	
580-19399-3	02SMSS	T	Solid	3050B	
580-19399-4	01CSBG	T	Solid	3050B	
580-19399-5	03SMRT1	T	Solid	3050B	
580-19399-6	04SMRT1	T	Solid	3050B	
580-19399-7	05SMRT1	T	Solid	3050B	
580-19399-8	06SMRT1	T	Solid	3050B	
580-19399-9	03HMBG	T	Solid	3050B	
580-19399-10	02CSBG	T	Solid	3050B	
580-19399-11	10SMSS	T	Solid	3050B	
580-19399-12	02HMBG	T	Solid	3050B	
580-19399-13	03SMSS	T	Solid	3050B	
Prep Batch: 580-64536					
LCS 580-64536/22-A	Lab Control Sample	T	Solid	3050B	
LCSD 580-64536/23-A	Lab Control Sample Duplicate	T	Solid	3050B	
LCSSRM 580-64536/24-A	LCS-Standard Reference Material	T	Solid	3050B	
MB 580-64536/21-A	Method Blank	T	Solid	3050B	
580-19399-14	01SMRT2	T	Solid	3050B	
580-19399-14DU	Duplicate	T	Solid	3050B	
580-19399-14MS	Matrix Spike	T	Solid	3050B	
580-19399-14MSD	Matrix Spike Duplicate	T	Solid	3050B	
580-19399-15	02SMRT2	T	Solid	3050B	
580-19399-16	03SMRT2	T	Solid	3050B	
580-19399-17	04SMRT2	T	Solid	3050B	
580-19399-18	05SMRT2	T	Solid	3050B	
580-19399-19	06SMRT2	T	Solid	3050B	
580-19399-20	01SMRT1	T	Solid	3050B	
580-19399-21	21HMSS	T	Solid	3050B	
580-19399-22	01HMST	T	Solid	3050B	
580-19399-23	02HMST	T	Solid	3050B	
580-19399-24	03HMST	T	Solid	3050B	
580-19399-25	04HMST	T	Solid	3050B	
580-19399-26	11SMSS	T	Solid	3050B	
580-19399-27	12SMSS	T	Solid	3050B	
580-19399-28	13SMSS	T	Solid	3050B	
580-19399-29	14SMSS	T	Solid	3050B	
580-19399-30	15SMSS	T	Solid	3050B	

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 580-64541					
LCS 580-64541/22-A	Lab Control Sample	T	Solid	3050B	
LCSD 580-64541/23-A	Lab Control Sample Duplicate	T	Solid	3050B	
LCSSRM 580-64541/24-A	LCS-Standard Reference Material	T	Solid	3050B	
MB 580-64541/21-A	Method Blank	T	Solid	3050B	
580-19399-31	16SMSS	T	Solid	3050B	
580-19399-31DU	Duplicate	T	Solid	3050B	
580-19399-31MS	Matrix Spike	T	Solid	3050B	
580-19399-31MSD	Matrix Spike Duplicate	T	Solid	3050B	
580-19399-32	17SMSS	T	Solid	3050B	
Analysis Batch:580-64554					
LCS 580-64500/25-A	Lab Control Sample	T	Solid	7471A	580-64500
LCSD 580-64500/26-A	Lab Control Sample Duplicate	T	Solid	7471A	580-64500
LCSSRM 580-64500/27-A	LCS-Standard Reference Material	T	Solid	7471A	580-64500
MB 580-64500/24-A	Method Blank	T	Solid	7471A	580-64500
580-19399-1	02SMRT1	T	Solid	7471A	580-64500
580-19399-2	01SMSS	T	Solid	7471A	580-64500
580-19399-3	02SMSS	T	Solid	7471A	580-64500
580-19399-5	03SMRT1	T	Solid	7471A	580-64500
580-19399-6	04SMRT1	T	Solid	7471A	580-64500
580-19399-7	05SMRT1	T	Solid	7471A	580-64500
580-19399-8	06SMRT1	T	Solid	7471A	580-64500
580-19399-11	10SMSS	T	Solid	7471A	580-64500
580-19399-13	03SMSS	T	Solid	7471A	580-64500
580-19399-14	01SMRT2	T	Solid	7471A	580-64500
580-19399-15	02SMRT2	T	Solid	7471A	580-64500
580-19399-16	03SMRT2	T	Solid	7471A	580-64500
580-19399-17	04SMRT2	T	Solid	7471A	580-64500
580-19399-18	05SMRT2	T	Solid	7471A	580-64500
580-19399-19	06SMRT2	T	Solid	7471A	580-64500

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:580-64691					
LCS 580-64512/20-A	Lab Control Sample	T	Solid	7471A	580-64512
LCSD 580-64512/21-A	Lab Control Sample Duplicate	T	Solid	7471A	580-64512
LCSSRM 580-64512/22-A	LCS-Standard Reference Material	T	Solid	7471A	580-64512
MB 580-64512/19-A	Method Blank	T	Solid	7471A	580-64512
580-19399-20	01SMRT1	T	Solid	7471A	580-64512
580-19399-21	21HMSS	T	Solid	7471A	580-64512
580-19399-22	01HMST	T	Solid	7471A	580-64512
580-19399-23	02HMST	T	Solid	7471A	580-64512
580-19399-24	03HMST	T	Solid	7471A	580-64512
580-19399-25	04HMST	T	Solid	7471A	580-64512
580-19399-26	11SMSS	T	Solid	7471A	580-64512
580-19399-27	12SMSS	T	Solid	7471A	580-64512
580-19399-28	13SMSS	T	Solid	7471A	580-64512
580-19399-29	14SMSS	T	Solid	7471A	580-64512
580-19399-30	15SMSS	T	Solid	7471A	580-64512
580-19399-31	16SMSS	T	Solid	7471A	580-64512
580-19399-32	17SMSS	T	Solid	7471A	580-64512

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:580-64718					
LCS 580-64514/22-A	Lab Control Sample	T	Solid	6020	580-64514
LCSD 580-64514/23-A	Lab Control Sample Duplicate	T	Solid	6020	580-64514
LCSSRM 580-64514/24-A	LCS-Standard Reference Material	T	Solid	6020	580-64514
MB 580-64514/21-A	Method Blank	T	Solid	6020	580-64514
LCS 580-64536/22-A	Lab Control Sample	T	Solid	6020	580-64536
LCSD 580-64536/23-A	Lab Control Sample Duplicate	T	Solid	6020	580-64536
LCSSRM 580-64536/24-A	LCS-Standard Reference Material	T	Solid	6020	580-64536
MB 580-64536/21-A	Method Blank	T	Solid	6020	580-64536
LCS 580-64541/22-A	Lab Control Sample	T	Solid	6020	580-64541
LCSD 580-64541/23-A	Lab Control Sample Duplicate	T	Solid	6020	580-64541
LCSSRM 580-64541/24-A	LCS-Standard Reference Material	T	Solid	6020	580-64541
MB 580-64541/21-A	Method Blank	T	Solid	6020	580-64541
580-19399-1	02SMRT1	T	Solid	6020	580-64514
580-19399-2	01SMSS	T	Solid	6020	580-64514
580-19399-3	02SMSS	T	Solid	6020	580-64514
580-19399-4	01CSBG	T	Solid	6020	580-64514
580-19399-5	03SMRT1	T	Solid	6020	580-64514
580-19399-6	04SMRT1	T	Solid	6020	580-64514
580-19399-7	05SMRT1	T	Solid	6020	580-64514
580-19399-8	06SMRT1	T	Solid	6020	580-64514
580-19399-9	03HMBG	T	Solid	6020	580-64514
580-19399-10	02CSBG	T	Solid	6020	580-64514
580-19399-11	10SMSS	T	Solid	6020	580-64514
580-19399-12	02HMBG	T	Solid	6020	580-64514
580-19399-13	03SMSS	T	Solid	6020	580-64514
580-19399-14	01SMRT2	T	Solid	6020	580-64536
580-19399-14DU	Duplicate	T	Solid	6020	580-64536
580-19399-14MS	Matrix Spike	T	Solid	6020	580-64536
580-19399-14MSD	Matrix Spike Duplicate	T	Solid	6020	580-64536
580-19399-15	02SMRT2	T	Solid	6020	580-64536
580-19399-16	03SMRT2	T	Solid	6020	580-64536
580-19399-17	04SMRT2	T	Solid	6020	580-64536
580-19399-18	05SMRT2	T	Solid	6020	580-64536
580-19399-19	06SMRT2	T	Solid	6020	580-64536
580-19399-20	01SMRT1	T	Solid	6020	580-64536
580-19399-21	21HMSS	T	Solid	6020	580-64536
580-19399-22	01HMST	T	Solid	6020	580-64536
580-19399-23	02HMST	T	Solid	6020	580-64536
580-19399-24	03HMST	T	Solid	6020	580-64536
580-19399-25	04HMST	T	Solid	6020	580-64536
580-19399-26	11SMSS	T	Solid	6020	580-64536
580-19399-27	12SMSS	T	Solid	6020	580-64536
580-19399-28	13SMSS	T	Solid	6020	580-64536
580-19399-29	14SMSS	T	Solid	6020	580-64536
580-19399-30	15SMSS	T	Solid	6020	580-64536
580-19399-31	16SMSS	T	Solid	6020	580-64541

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:580-64718					
580-19399-31DU	Duplicate	T	Solid	6020	580-64541
580-19399-31MS	Matrix Spike	T	Solid	6020	580-64541
580-19399-31MSD	Matrix Spike Duplicate	T	Solid	6020	580-64541
580-19399-32	17SMSS	T	Solid	6020	580-64541

Client: Ecology and Environment, Inc. Job Number: 580-19399-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:580-64756					
LCS 580-64514/22-A	Lab Control Sample	T	Solid	6020	580-64514
LCSD 580-64514/23-A	Lab Control Sample Duplicate	T	Solid	6020	580-64514
LCSSRM 580-64514/24-A	LCS-Standard Reference Material	T	Solid	6020	580-64514
MB 580-64514/21-A	Method Blank	T	Solid	6020	580-64514
LCS 580-64536/22-A	Lab Control Sample	T	Solid	6020	580-64536
LCSD 580-64536/23-A	Lab Control Sample Duplicate	T	Solid	6020	580-64536
LCSSRM 580-64536/24-A	LCS-Standard Reference Material	T	Solid	6020	580-64536
MB 580-64536/21-A	Method Blank	T	Solid	6020	580-64536
LCS 580-64541/22-A	Lab Control Sample	T	Solid	6020	580-64541
LCSD 580-64541/23-A	Lab Control Sample Duplicate	T	Solid	6020	580-64541
LCSSRM 580-64541/24-A	LCS-Standard Reference Material	T	Solid	6020	580-64541
MB 580-64541/21-A	Method Blank	T	Solid	6020	580-64541
580-19399-1	02SMRT1	T	Solid	6020	580-64514
580-19399-2	01SMSS	T	Solid	6020	580-64514
580-19399-3	02SMSS	T	Solid	6020	580-64514
580-19399-4	01CSBG	T	Solid	6020	580-64514
580-19399-5	03SMRT1	T	Solid	6020	580-64514
580-19399-6	04SMRT1	T	Solid	6020	580-64514
580-19399-7	05SMRT1	T	Solid	6020	580-64514
580-19399-8	06SMRT1	T	Solid	6020	580-64514
580-19399-9	03HMBG	T	Solid	6020	580-64514
580-19399-10	02CSBG	T	Solid	6020	580-64514
580-19399-11	10SMSS	T	Solid	6020	580-64514
580-19399-12	02HMBG	T	Solid	6020	580-64514
580-19399-13	03SMSS	T	Solid	6020	580-64514
580-19399-14	01SMRT2	T	Solid	6020	580-64536
580-19399-14DU	Duplicate	T	Solid	6020	580-64536
580-19399-14MS	Matrix Spike	T	Solid	6020	580-64536
580-19399-14MSD	Matrix Spike Duplicate	T	Solid	6020	580-64536
580-19399-15	02SMRT2	T	Solid	6020	580-64536
580-19399-16	03SMRT2	T	Solid	6020	580-64536
580-19399-17	04SMRT2	T	Solid	6020	580-64536
580-19399-18	05SMRT2	T	Solid	6020	580-64536
580-19399-19	06SMRT2	T	Solid	6020	580-64536
580-19399-20	01SMRT1	T	Solid	6020	580-64536
580-19399-21	21HMSS	T	Solid	6020	580-64536
580-19399-22	01HMST	T	Solid	6020	580-64536
580-19399-23	02HMST	T	Solid	6020	580-64536
580-19399-24	03HMST	T	Solid	6020	580-64536
580-19399-25	04HMST	T	Solid	6020	580-64536
580-19399-26	11SMSS	T	Solid	6020	580-64536
580-19399-27	12SMSS	T	Solid	6020	580-64536
580-19399-28	13SMSS	T	Solid	6020	580-64536
580-19399-29	14SMSS	T	Solid	6020	580-64536
580-19399-30	15SMSS	T	Solid	6020	580-64536
580-19399-31	16SMSS	T	Solid	6020	580-64541

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:580-64756					
580-19399-31DU	Duplicate	T	Solid	6020	580-64541
580-19399-31MS	Matrix Spike	T	Solid	6020	580-64541
580-19399-31MSD	Matrix Spike Duplicate	T	Solid	6020	580-64541
580-19399-32	17SMSS	T	Solid	6020	580-64541

Report Basis

T = Total

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:580-64078					
580-19399-1	02SMRT1	T	Solid	Moisture	
580-19399-1DU	Duplicate	T	Solid	Moisture	
580-19399-2	01SMSS	T	Solid	Moisture	
580-19399-3	02SMSS	T	Solid	Moisture	
580-19399-4	01CSBG	T	Solid	Moisture	
580-19399-5	03SMRT1	T	Solid	Moisture	
580-19399-6	04SMRT1	T	Solid	Moisture	
580-19399-7	05SMRT1	T	Solid	Moisture	
580-19399-8	06SMRT1	T	Solid	Moisture	
580-19399-9	03HMBG	T	Solid	Moisture	
580-19399-10	02CSBG	T	Solid	Moisture	
580-19399-11	10SMSS	T	Solid	Moisture	
580-19399-12	02HMBG	T	Solid	Moisture	
580-19399-13	03SMSS	T	Solid	Moisture	
580-19399-14	01SMRT2	T	Solid	Moisture	
580-19399-15	02SMRT2	T	Solid	Moisture	
580-19399-16	03SMRT2	T	Solid	Moisture	
Analysis Batch:580-64079					
580-19399-17	04SMRT2	T	Solid	Moisture	
580-19399-17DU	Duplicate	T	Solid	Moisture	
580-19399-18	05SMRT2	T	Solid	Moisture	
580-19399-19	06SMRT2	T	Solid	Moisture	
580-19399-20	01SMRT1	T	Solid	Moisture	
580-19399-21	21HMSS	T	Solid	Moisture	
580-19399-22	01HMST	T	Solid	Moisture	
580-19399-23	02HMST	T	Solid	Moisture	
580-19399-24	03HMST	T	Solid	Moisture	
580-19399-25	04HMST	T	Solid	Moisture	
580-19399-26	11SMSS	T	Solid	Moisture	
580-19399-27	12SMSS	T	Solid	Moisture	
580-19399-28	13SMSS	T	Solid	Moisture	
580-19399-29	14SMSS	T	Solid	Moisture	
580-19399-30	15SMSS	T	Solid	Moisture	
580-19399-31	16SMSS	T	Solid	Moisture	
580-19399-32	17SMSS	T	Solid	Moisture	

Report Basis
T = Total

Method 8270C

Semivolatile Organic Compounds (GC/MS) by Method 8270C

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): DB-5MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	NBZ #	FBP #	TPH #
01HMST	580-19399-22	83	93	85
02HMST	580-19399-23	86	95	86
03HMST	580-19399-24	86	89	74
04HMST	580-19399-25	89	96	79
	MB 580-64442/1-A	84	99	83
	LCS 580-64442/2-A	87	97	83
01HMST MS	580-19399-22 MS	82	86	75
01HMST MSD	580-19399-22 MSD	88	87	74

	QC LIMITS
NBZ = Nitrobenzene-d5	38-141
FBP = 2-Fluorobiphenyl	42-140
TPH = Terphenyl-d14	42-151

Column to be used to flag recovery values

FORM II 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: AT15211.D

Lab ID: LCS 580-64442/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Naphthalene	1000	1060	106	64-129	
2-Methylnaphthalene	1000	1230	122	65-125	
1-Methylnaphthalene	1000	1050	105	48-148	
Acenaphthylene	1000	1150	115	69-129	
Acenaphthene	1000	1050	105	65-130	
Fluorene	1000	1080	108	68-128	
Phenanthrene	1000	996	99	65-125	
Anthracene	1000	1070	107	73-123	
Fluoranthene	1000	1120	112	61-121	
Pyrene	1000	1050	105	54-134	
Benzo[a]anthracene	1000	1060	106	64-124	
Chrysene	1000	1010	101	71-126	
Benzo[b]fluoranthene	1000	1110	111	66-136	
Benzo[k]fluoranthene	1000	1120	112	63-143	
Benzo[a]pyrene	1000	1100	110	68-128	
Indeno[1,2,3-cd]pyrene	1000	1050	105	59-139	
Dibenz(a,h)anthracene	1000	1110	111	57-142	
Benzo[g,h,i]perylene	1000	1090	108	57-142	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: AT15213.D

Lab ID: 580-19399-22 MS Client ID: 01HMST MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Naphthalene	1280	ND	1280	100	64-129	H
2-Methylnaphthalene	1280	ND	1480	115	65-125	H
1-Methylnaphthalene	1280	ND	1250	98	48-148	H
Acenaphthylene	1280	ND	1320	103	69-129	H
Acenaphthene	1280	ND	1330	104	65-130	H
Fluorene	1280	ND	1330	104	68-128	H
Phenanthrene	1280	ND	1290	101	65-125	H
Anthracene	1280	ND	1400	109	73-123	H
Fluoranthene	1280	ND	1410	110	61-121	H
Pyrene	1280	ND	1350	106	54-134	H
Benzo[a]anthracene	1280	ND	1310	102	64-124	H
Chrysene	1280	ND	1230	95	71-126	H
Benzo[b]fluoranthene	1280	ND	1440	112	66-136	H
Benzo[k]fluoranthene	1280	ND	1460	115	63-143	H
Benzo[a]pyrene	1280	ND	1380	107	68-128	H
Indeno[1,2,3-cd]pyrene	1280	ND	1320	103	59-139	H
Dibenz(a,h)anthracene	1280	ND	1370	107	57-142	H
Benzo[g,h,i]perylene	1280	ND	1350	105	57-142	H

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: AT15214.D

Lab ID: 580-19399-22 MSD Client ID: 01HMST MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Naphthalene	1330	1400	105	9	26	64-129	H
2-Methylnaphthalene	1330	1540	116	4	27	65-125	H
1-Methylnaphthalene	1330	1460	110	16	30	48-148	H
Acenaphthylene	1330	1540	116	15	28	69-129	H
Acenaphthene	1330	1410	106	6	27	65-130	H
Fluorene	1330	1440	109	8	31	68-128	H
Phenanthrene	1330	1310	99	2	28	65-125	H
Anthracene	1330	1410	106	1	27	73-123	H
Fluoranthene	1330	1500	113	6	36	61-121	H
Pyrene	1330	1350	102	0	31	54-134	H
Benzo[a]anthracene	1330	1320	99	1	27	64-124	H
Chrysene	1330	1230	92	0	26	71-126	H
Benzo[b]fluoranthene	1330	1400	105	3	31	66-136	H
Benzo[k]fluoranthene	1330	1410	106	4	31	63-143	H
Benzo[a]pyrene	1330	1360	102	1	30	68-128	H
Indeno[1,2,3-cd]pyrene	1330	1310	98	1	29	59-139	H
Dibenz(a,h)anthracene	1330	1280	97	7	30	57-142	H
Benzo[g,h,i]perylene	1330	1280	96	5	28	57-142	H

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Lab File ID: AT15210.D Lab Sample ID: MB 580-64442/1-A

Matrix: Solid Date Extracted: 05/26/2010 15:16

Instrument ID: TAC002 Date Analyzed: 05/27/2010 13:58

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 580-64442/2-A	AT15211.D	05/27/2010 14:18
01HMST	580-19399-22	AT15212.D	05/27/2010 14:38
01HMST MS	580-19399-22 MS	AT15213.D	05/27/2010 14:59
01HMST MSD	580-19399-22 MSD	AT15214.D	05/27/2010 15:19
02HMST	580-19399-23	AT15215.D	05/27/2010 15:39
03HMST	580-19399-24	AT15216.D	05/27/2010 15:59
04HMST	580-19399-25	AT15217.D	05/27/2010 16:20

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Lab File ID: AT15081.D DFTPP Injection Date: 05/11/2010

Instrument ID: TAC002 DFTPP Injection Time: 13:55

Analysis Batch No.: 63269

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	18.5	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	26.8	
70	Less than 2.0 % of mass 69	0.2	(0.7)1
127	10.0 - 80.0 % of mass 198	43.6	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.9	
275	10.0 - 60.0 % of mass 198	32.9	
365	Greater than 1.0 % of mass 198	4.9	
441	Present but less than mass 443	23.0	
442	Greater than 50.0 % of mass 198	248.6	
443	15.0 - 24.0 % of mass 442	45.7	(18.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 580-63269/5	AT15083.D	05/11/2010	15:36
	IC 580-63269/6	AT15084.D	05/11/2010	15:56
	IC 580-63269/7	AT15085.D	05/11/2010	16:16
	IC 580-63269/8	AT15086.D	05/11/2010	16:36
	IC 580-63269/9	AT15087.D	05/11/2010	16:56
	IC 580-63269/10	AT15088.D	05/11/2010	17:16
	IC 580-63269/11	AT15089.D	05/11/2010	17:36
	IC 580-63269/12	AT15090.D	05/11/2010	17:59
	ICV 580-63269/13	AT15091.D	05/11/2010	19:01

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Lab File ID: AT15205.D DFTPP Injection Date: 05/27/2010

Instrument ID: TAC002 DFTPP Injection Time: 11:47

Analysis Batch No.: 64507

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 198	15.1	
68	Less than 2.0 % of mass 69	0.0	(0.0)1
69	Mass 69 relative abundance	21.6	
70	Less than 2.0 % of mass 69	0.1	(0.5)1
127	10.0 - 80.0 % of mass 198	40.5	
197	Less than 2.0 % of mass 198	0.0	
198	Base Peak, 100% relative abundance	100.0	
199	5.0 - 9.0 % of mass 198	6.3	
275	10.0 - 60.0 % of mass 198	33.3	
365	Greater than 1.0 % of mass 198	5.3	
441	Present but less than mass 443	36.8	
442	Greater than 50.0 % of mass 198	259.2	
443	15.0 - 24.0 % of mass 442	47.6	(18.4)2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 580-64507/3	AT15206.D	05/27/2010	12:12
	MB 580-64442/1-A	AT15210.D	05/27/2010	13:58
	LCS 580-64442/2-A	AT15211.D	05/27/2010	14:18
01HMST	580-19399-22	AT15212.D	05/27/2010	14:38
01HMST MS	580-19399-22 MS	AT15213.D	05/27/2010	14:59
01HMST MSD	580-19399-22 MSD	AT15214.D	05/27/2010	15:19
02HMST	580-19399-23	AT15215.D	05/27/2010	15:39
03HMST	580-19399-24	AT15216.D	05/27/2010	15:59
04HMST	580-19399-25	AT15217.D	05/27/2010	16:20

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Sample No.: IC 580-63269/10 Date Analyzed: 05/11/2010 17:16

Instrument ID: TAC002 GC Column: DB-5MS ID: 0.25(mm)

Lab File ID (Standard): AT15088.D Heated Purge: (Y/N)

Calibration ID: 4953

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		62479	3.89	271099	4.88	154337	6.30
UPPER LIMIT		124958	4.39	542198	5.38	308674	6.80
LOWER LIMIT		31240	3.39	135550	4.38	77169	5.80
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 580-63269/13		67609	3.89	278739	4.87	154974	6.30

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Sample No.: IC 580-63269/10 Date Analyzed: 05/11/2010 17:16

Instrument ID: TAC002 GC Column: DB-5MS ID: 0.25(mm)

Lab File ID (Standard): AT15088.D Heated Purge: (Y/N)

Calibration ID: 4953

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		272493	7.52	304526	9.74	277520	11.24
UPPER LIMIT		544986	8.02	609052	10.24	555040	11.74
LOWER LIMIT		136247	7.02	152263	9.24	138760	10.74
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 580-63269/13		272145	7.53	292766	9.75	262601	11.24

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Sample No.: CCVIS 580-64507/3 Date Analyzed: 05/27/2010 12:12

Instrument ID: TAC002 GC Column: DB-5MS ID: 0.25(mm)

Lab File ID (Standard): AT15206.D Heated Purge: (Y/N) N

Calibration ID: 4953

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		86429	3.88	350432	4.86	196241	6.29
UPPER LIMIT		172858	4.38	700864	5.36	392482	6.79
LOWER LIMIT		43215	3.38	175216	4.36	98121	5.79
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 580-64442/1-A		75520	3.88	322145	4.86	172940	6.29
LCS 580-64442/2-A		78945	3.88	319297	4.86	179921	6.29
580-19399-22	01HMST	90359	3.88	382574	4.86	205547	6.29
580-19399-22 MS	01HMST MS	68981	3.88	311738	4.86	183415	6.29
580-19399-22 MSD	01HMST MSD	62302	3.88	288252	4.86	163703	6.29
580-19399-23	02HMST	77451	3.88	314840	4.86	176768	6.29
580-19399-24	03HMST	67315	3.88	305265	4.86	160827	6.29
580-19399-25	04HMST	79959	3.88	362561	4.86	211038	6.29

DCB = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8
ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Sample No.: CCVIS 580-64507/3 Date Analyzed: 05/27/2010 12:12

Instrument ID: TAC002 GC Column: DB-5MS ID: 0.25(mm)

Lab File ID (Standard): AT15206.D Heated Purge: (Y/N) N

Calibration ID: 4953

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		347373	7.51	377809	9.73	326008	11.22
UPPER LIMIT		694746	8.01	755618	10.23	652016	11.72
LOWER LIMIT		173687	7.01	188905	9.23	163004	10.72
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 580-64442/1-A		320777	7.51	347523	9.73	315422	11.22
LCS 580-64442/2-A		324902	7.51	355691	9.73	329621	11.22
580-19399-22	01HMST	378713	7.51	364229	9.73	269037	11.22
580-19399-22 MS	01HMST MS	321225	7.51	348595	9.73	314318	11.22
580-19399-22 MSD	01HMST MSD	295136	7.51	328400	9.73	297735	11.22
580-19399-23	02HMST	313808	7.51	294661	9.73	215102	11.22
580-19399-24	03HMST	309911	7.51	320119	9.73	292268	11.22
580-19399-25	04HMST	384021	7.51	377729	9.73	294683	11.22

PHN = Phenanthrene-d10
CRY = Chrysene-d12
PRY = Perylene-d12

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma | Job No.: 580-19399-1

SDG No.:

Client Sample ID: 01HMST | Lab Sample ID: 580-19399-22

Matrix: Solid | Lab File ID: AT15212.D

Analysis Method: 8270C | Date Collected: 05/05/2010 10:00

Extract. Method: 3550B | Date Extracted: 05/26/2010 15:16

Sample wt/vol: 10.2526(g) | Date Analyzed: 05/27/2010 14:38

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 64507 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	ND	H	26	2.9
91-57-6	2-Methylnaphthalene	ND	H	26	3.0
90-12-0	1-Methylnaphthalene	ND	H	39	2.4
208-96-8	Acenaphthylene	ND	H	26	2.1
83-32-9	Acenaphthene	ND	H	26	2.1
86-73-7	Fluorene	ND	H	26	1.6
85-01-8	Phenanthrene	ND	H	26	2.7
120-12-7	Anthracene	ND	H	26	1.8
206-44-0	Fluoranthene	ND	H	26	1.6
129-00-0	Pyrene	ND	H	26	1.8
56-55-3	Benzo[a]anthracene	ND	H	33	2.2
218-01-9	Chrysene	ND	H	33	1.8
205-99-2	Benzo[b]fluoranthene	ND	H	26	5.4
207-08-9	Benzo[k]fluoranthene	ND	H	33	1.7
50-32-8	Benzo[a]pyrene	ND	H	39	2.7
193-39-5	Indeno[1,2,3-cd]pyrene	ND	H	52	5.5
53-70-3	Dibenz(a,h)anthracene	ND	H	52	2.9
191-24-2	Benzo[g,h,i]perylene	ND	H	33	2.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
4165-60-0	Nitrobenzene-d5	83	38-141	
321-60-8	2-Fluorobiphenyl	93	42-140	
1718-51-0	Terphenyl-d14	85	42-151	

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15212.D		
Lims ID:	580-19399-B-22-A	Client ID:	01HMST
Inject. Date:	27-May-2010 14:38:30	Dil. Factor:	1.0000
Sample Type:	Client Sample		
Sample ID:	580-19399-B-22-A		
Misc. Info.:	580-0009155-009		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	9
Lims Batch ID:	64507	Lims Sample ID:	9
Detector:	MS SCAN		

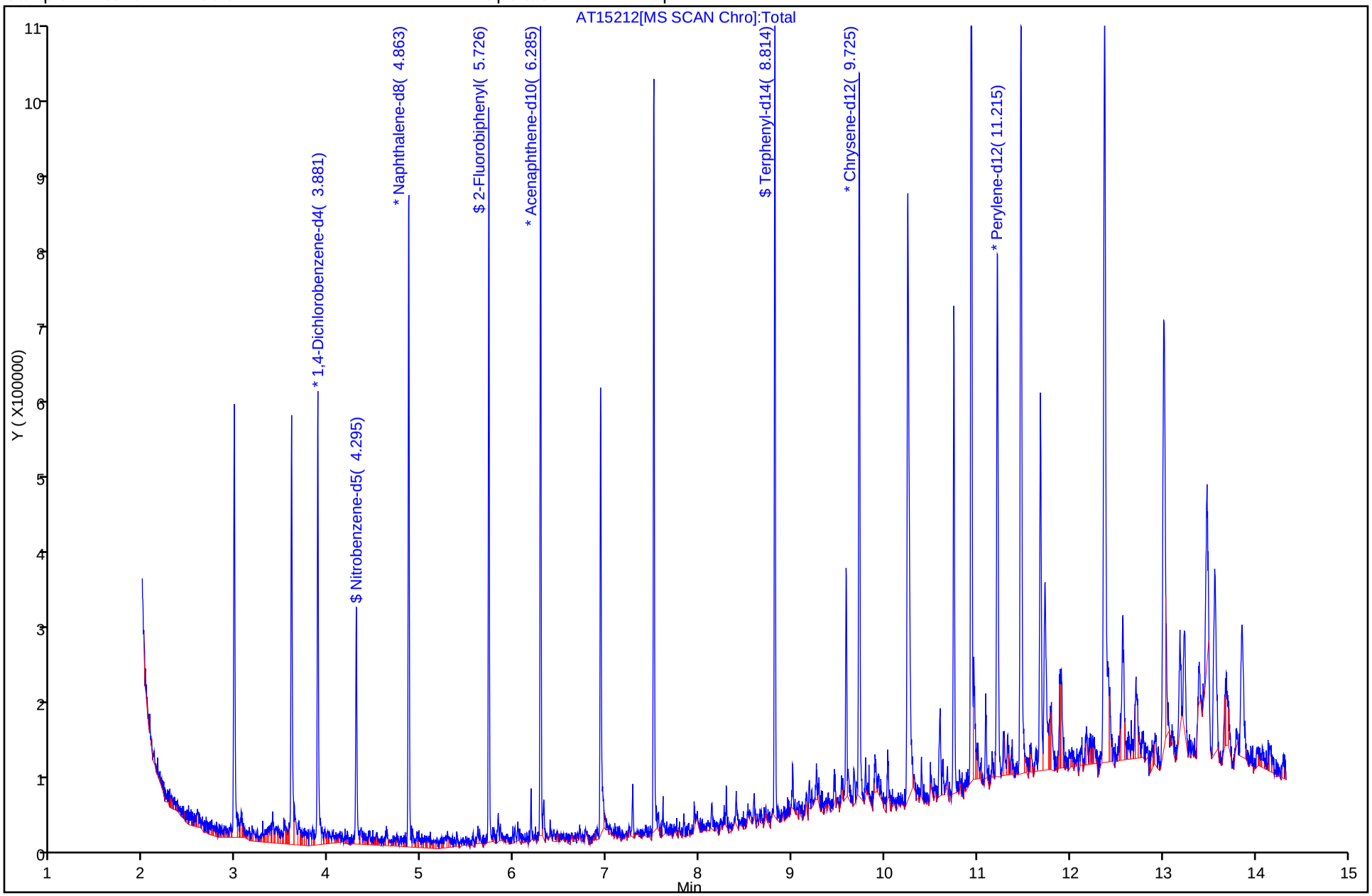
Method:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\8270C TAC002.m		
Last Update:	27-May-2010 14:51:09	Calib Date:	11-May-2010 17:59:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15090.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		

Reviewed By:	phama	Date:	27-May-2010 15:01:50

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.881	3.881	0.000	90359	994.5	
* 2 Naphthalene-d8	136	4.860	4.863	-0.003	382574	997.0	
* 3 Acenaphthene-d10	164	6.285	6.288	-0.003	205547	968.0	
* 4 Phenanthrene-d10	188	7.508	7.508	0.000	378713	984.5	
* 5 Chrysene-d12	240	9.725	9.731	-0.006	364229	974.0	
* 6 Perylene-d12	264	11.215	11.221	-0.006	269037	983.0	
$ 9 Nitrobenzene-d5	82	4.295	4.296	-0.001	98398	835.9	
$ 10 2-Fluorobiphenyl	172	5.726	5.729	-0.003	273441	933.3	
$ 12 Terphenyl-d14	244	8.814	8.817	-0.003	314166	853.5	
100 Chrysene	228	9.745	9.754	-0.009	3603	8.44	

Report Date: 27-May-2010 15:01:50 Chrom Revision: 1.1 20-Apr-2010 06:13:18

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15212.D		
Inj Date:	27-May-2010 14:38:30	Limit Group:	8270C Standard
Lims Batch ID:	64507	Lims Sample ID:	9
Client ID:	01HMST	Instrument:	TAC002
Sample Info:	580-19399-B-22-A		
Sample Amount:	1.00 ul	Operator:	ap



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma | Job No.: 580-19399-1

SDG No.:

Client Sample ID: 02HMST | Lab Sample ID: 580-19399-23

Matrix: Solid | Lab File ID: AT15215.D

Analysis Method: 8270C | Date Collected: 05/12/2010 10:02

Extract. Method: 3550B | Date Extracted: 05/26/2010 15:16

Sample wt/vol: 10.5696(g) | Date Analyzed: 05/27/2010 15:39

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 40.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 64507 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	ND		32	3.5
91-57-6	2-Methylnaphthalene	ND		32	3.7
90-12-0	1-Methylnaphthalene	ND		48	2.9
208-96-8	Acenaphthylene	ND		32	2.5
83-32-9	Acenaphthene	ND		32	2.5
86-73-7	Fluorene	40		32	1.9
85-01-8	Phenanthrene	ND		32	3.3
120-12-7	Anthracene	ND		32	2.2
206-44-0	Fluoranthene	ND		32	1.9
129-00-0	Pyrene	ND		32	2.2
56-55-3	Benzo[a]anthracene	ND		40	2.7
218-01-9	Chrysene	ND		40	2.2
205-99-2	Benzo[b]fluoranthene	ND		32	6.5
207-08-9	Benzo[k]fluoranthene	ND		40	2.1
50-32-8	Benzo[a]pyrene	ND		48	3.3
193-39-5	Indeno[1,2,3-cd]pyrene	ND		64	6.7
53-70-3	Dibenz(a,h)anthracene	ND		64	3.5
191-24-2	Benzo[g,h,i]perylene	ND		40	2.4

CAS NO.	SURROGATE	%REC	LIMITS	Q
4165-60-0	Nitrobenzene-d5	86	38-141	
321-60-8	2-Fluorobiphenyl	95	42-140	
1718-51-0	Terphenyl-d14	86	42-151	

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15215.D		
Lims ID:	580-19399-B-23-A	Client ID:	02HMST
Inject. Date:	27-May-2010 15:39:30	Dil. Factor:	1.0000
Sample Type:	Client Sample		
Sample ID:	580-19399-B-23-A		
Misc. Info.:	580-0009155-012		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	12
Lims Batch ID:	64507	Lims Sample ID:	12
Detector:	MS SCAN		

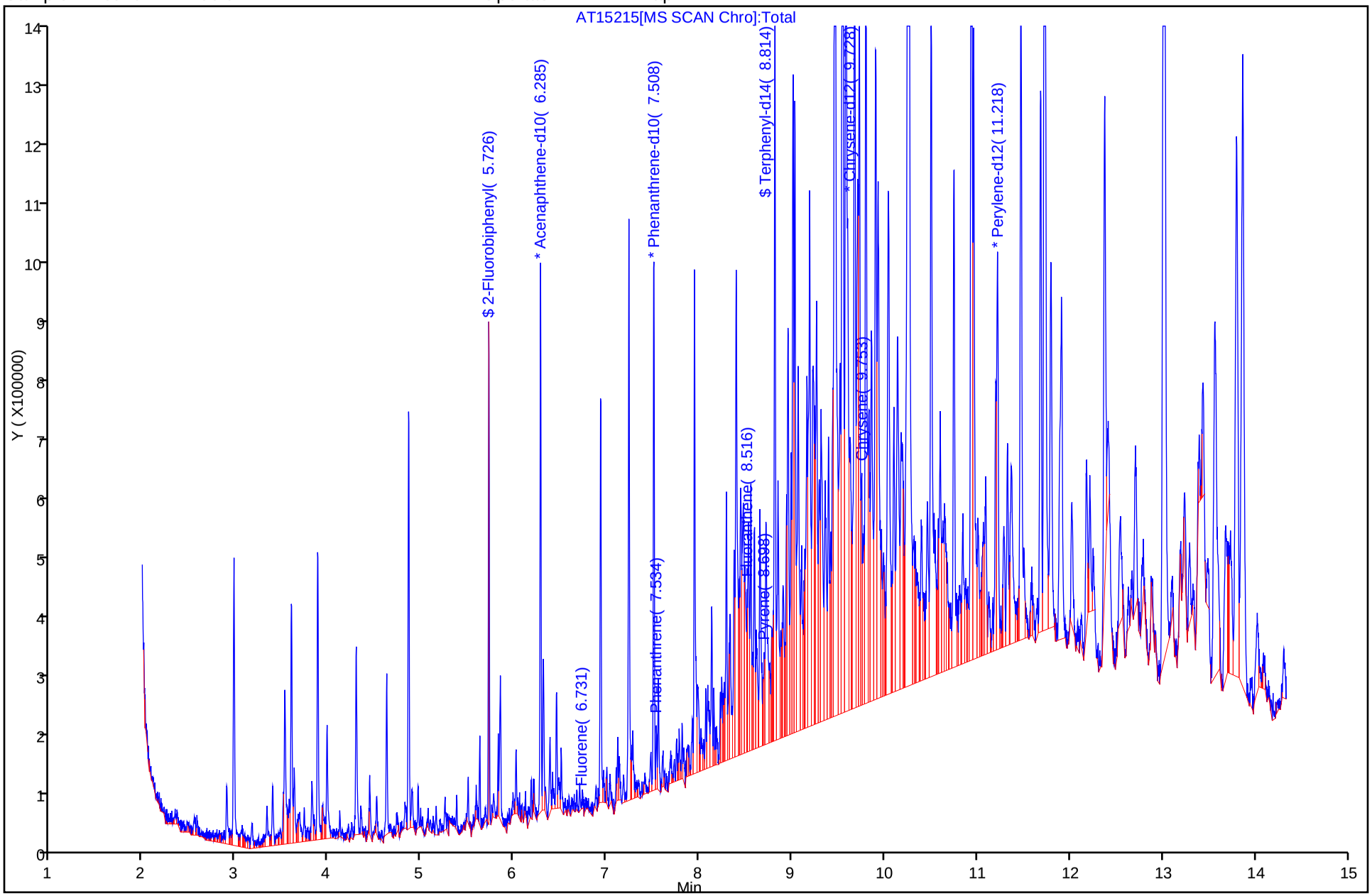
Method:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\8270C TAC002.m		
Last Update:	27-May-2010 16:37:33	Calib Date:	11-May-2010 17:59:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15090.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		

Reviewed By:	phama	Date:	27-May-2010 16:38:38

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.878	3.881	-0.003	77451	994.5	
* 2 Naphthalene-d8	136	4.860	4.863	-0.003	314840	997.0	
* 3 Acenaphthene-d10	164	6.285	6.288	-0.003	176768	968.0	
* 4 Phenanthrene-d10	188	7.508	7.508	0.000	313808	984.5	
* 5 Chrysene-d12	240	9.728	9.731	-0.003	294661	974.0	
* 6 Perylene-d12	264	11.215	11.221	-0.006	215102	983.0	
$ 9 Nitrobenzene-d5	82	4.293	4.296	-0.003	83864	865.7	
$ 10 2-Fluorobiphenyl	172	5.726	5.729	-0.003	240478	954.4	
$ 12 Terphenyl-d14	244	8.814	8.817	-0.003	255685	858.6	
75 Fluorene	166	6.736	6.736	0.000	5905	25.2	
86 Phenanthrene	178	7.531	7.531	0.000	1727	5.10	
95 Fluoranthene	202	8.507	8.510	-0.003	1779	5.03	
93 Pyrene	202	8.695	8.698	-0.003	3233	7.98	
100 Chrysene	228	9.748	9.754	-0.006	2422	7.02	

Report Date: 27-May-2010 16:38:38 Chrom Revision: 1.1 20-Apr-2010 06:13:18

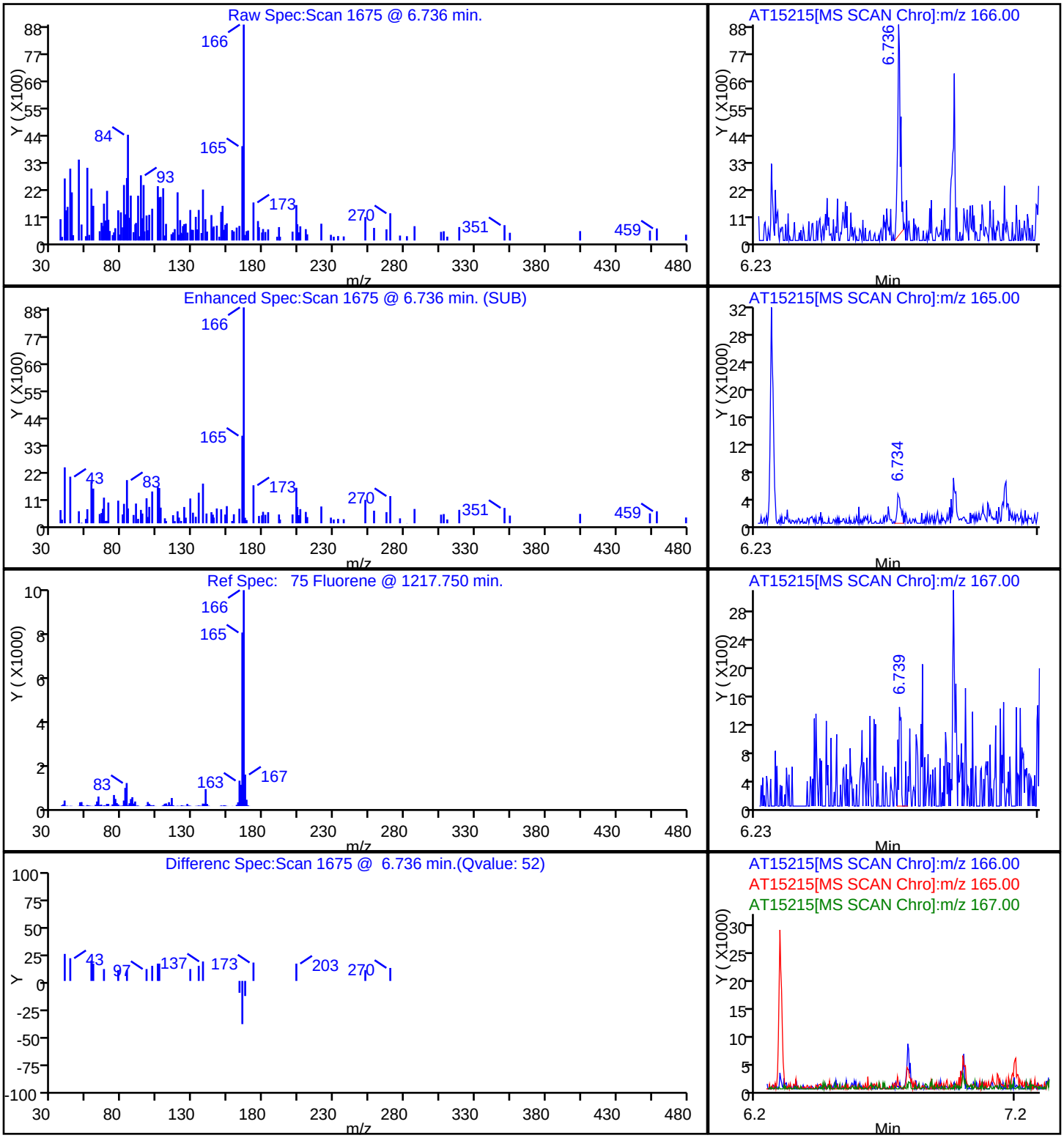
Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15215.D		
Inj Date:	27-May-2010 15:39:30	Limit Group:	8270C Standard
Lims Batch ID:	64507	Lims Sample ID:	12
Client ID:	02HMST	Instrument:	TAC002
Sample Info:	580-19399-B-23-A		
Sample Amount:	1.00 ul	Operator:	ap



Report Date: 27-May-2010 16:38:38 Chrom Revision: 1.1 20-Apr-2010 06:13:18

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15215.D		
Inj Date:	27-May-2010 15:39:30	Limit Group:	8270C Standard
Lims Batch ID:	64507	Lims Sample ID:	12
Client ID:	02HMST	Instrument:	TAC002
Sample Info:	580-19399-B-23-A		
Sample Amount:	1.00 ul	Operator:	ap

75 Fluorene



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma | Job No.: 580-19399-1

SDG No.:

Client Sample ID: 03HMST | Lab Sample ID: 580-19399-24

Matrix: Solid | Lab File ID: AT15216.D

Analysis Method: 8270C | Date Collected: 05/12/2010 10:07

Extract. Method: 3550B | Date Extracted: 05/26/2010 15:16

Sample wt/vol: 10.4346(g) | Date Analyzed: 05/27/2010 15:59

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 31.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 64507 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	ND		28	3.1
91-57-6	2-Methylnaphthalene	ND		28	3.2
90-12-0	1-Methylnaphthalene	ND		42	2.5
208-96-8	Acenaphthylene	ND		28	2.2
83-32-9	Acenaphthene	ND		28	2.2
86-73-7	Fluorene	ND		28	1.7
85-01-8	Phenanthrene	ND		28	2.9
120-12-7	Anthracene	ND		28	2.0
206-44-0	Fluoranthene	ND		28	1.7
129-00-0	Pyrene	ND		28	2.0
56-55-3	Benzo[a]anthracene	ND		35	2.4
218-01-9	Chrysene	ND		35	2.0
205-99-2	Benzo[b]fluoranthene	ND		28	5.7
207-08-9	Benzo[k]fluoranthene	ND		35	1.8
50-32-8	Benzo[a]pyrene	ND		42	2.9
193-39-5	Indeno[1,2,3-cd]pyrene	ND		56	5.9
53-70-3	Dibenz(a,h)anthracene	ND		56	3.1
191-24-2	Benzo[g,h,i]perylene	ND		35	2.1

CAS NO.	SURROGATE	%REC	LIMITS	Q
4165-60-0	Nitrobenzene-d5	86	38-141	
321-60-8	2-Fluorobiphenyl	89	42-140	
1718-51-0	Terphenyl-d14	74	42-151	

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15216.D		
Lims ID:	580-19399-B-24-A	Client ID:	03HMST
Inject. Date:	27-May-2010 15:59:30	Dil. Factor:	1.0000
Sample Type:	Client Sample		
Sample ID:	580-19399-B-24-A		
Misc. Info.:	580-0009155-013		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	13
Lims Batch ID:	64507	Lims Sample ID:	13
Detector:	MS SCAN		

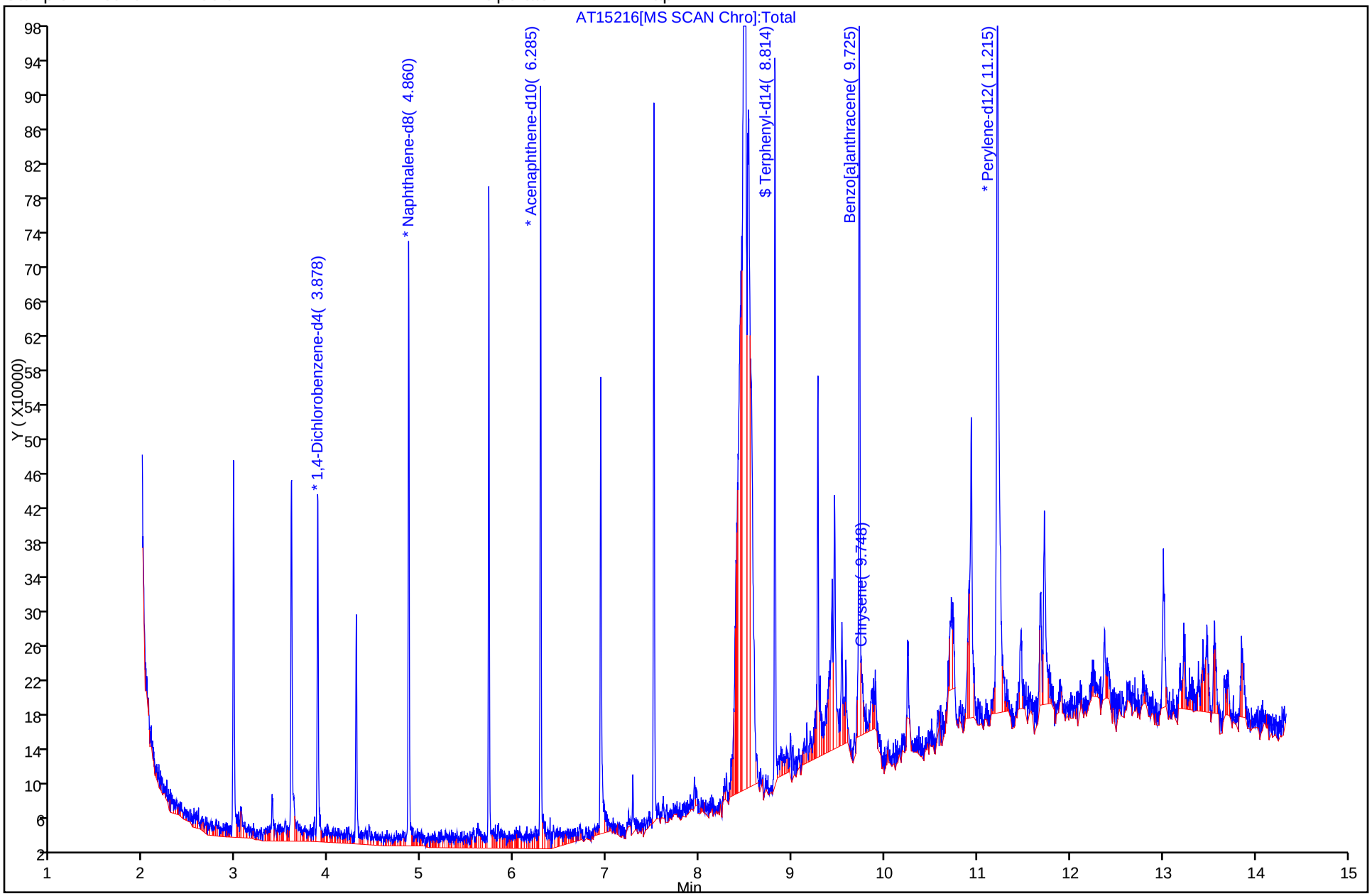
Method:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\8270C TAC002.m		
Last Update:	27-May-2010 16:37:33	Calib Date:	11-May-2010 17:59:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15090.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		

Reviewed By:	phama	Date:	27-May-2010 16:39:32

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.878	3.881	-0.003	67315	994.5	
* 2 Naphthalene-d8	136	4.860	4.863	-0.003	305265	997.0	
* 3 Acenaphthene-d10	164	6.285	6.288	-0.003	160827	968.0	
* 4 Phenanthrene-d10	188	7.508	7.508	0.000	309911	984.5	
* 5 Chrysene-d12	240	9.728	9.731	-0.003	320119	974.0	
* 6 Perylene-d12	264	11.215	11.221	-0.006	292268	983.0	
$ 9 Nitrobenzene-d5	82	4.296	4.296	0.000	81453	867.2	
$ 10 2-Fluorobiphenyl	172	5.726	5.729	-0.003	204307	891.2	
$ 12 Terphenyl-d14	244	8.817	8.817	0.000	238798	738.1	
99 Benzo[a]anthracene	228	9.725	9.719	0.006	868	2.45	
100 Chrysene	228	9.756	9.754	0.002	5603	14.9	

Report Date: 27-May-2010 16:39:32 Chrom Revision: 1.1 20-Apr-2010 06:13:18

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15216.D		
Inj Date:	27-May-2010 15:59:30	Limit Group:	8270C Standard
Lims Batch ID:	64507	Lims Sample ID:	13
Client ID:	03HMST	Instrument:	TAC002
Sample Info:	580-19399-B-24-A		
Sample Amount:	1.00 ul	Operator:	ap



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma | Job No.: 580-19399-1

SDG No.:

Client Sample ID: 04HMST | Lab Sample ID: 580-19399-25

Matrix: Solid | Lab File ID: AT15217.D

Analysis Method: 8270C | Date Collected: 05/12/2010 10:15

Extract. Method: 3550B | Date Extracted: 05/26/2010 15:16

Sample wt/vol: 10.2374(g) | Date Analyzed: 05/27/2010 16:20

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 52.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 64507 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	ND		41	4.5
91-57-6	2-Methylnaphthalene	ND		41	4.7
90-12-0	1-Methylnaphthalene	ND		62	3.7
208-96-8	Acenaphthylene	ND		41	3.3
83-32-9	Acenaphthene	ND		41	3.3
86-73-7	Fluorene	ND		41	2.5
85-01-8	Phenanthrene	ND		41	4.3
120-12-7	Anthracene	ND		41	2.9
206-44-0	Fluoranthene	ND		41	2.5
129-00-0	Pyrene	ND		41	2.9
56-55-3	Benzo[a]anthracene	ND		51	3.5
218-01-9	Chrysene	ND		51	2.9
205-99-2	Benzo[b]fluoranthene	ND		41	8.4
207-08-9	Benzo[k]fluoranthene	ND		51	2.7
50-32-8	Benzo[a]pyrene	ND		62	4.3
193-39-5	Indeno[1,2,3-cd]pyrene	ND		82	8.6
53-70-3	Dibenz(a,h)anthracene	ND		82	4.5
191-24-2	Benzo[g,h,i]perylene	ND		51	3.1

CAS NO.	SURROGATE	%REC	LIMITS	Q
4165-60-0	Nitrobenzene-d5	89	38-141	
321-60-8	2-Fluorobiphenyl	96	42-140	
1718-51-0	Terphenyl-d14	79	42-151	

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15217.D		
Lims ID:	580-19399-B-25-A	Client ID:	04HMST
Inject. Date:	27-May-2010 16:20:30	Dil. Factor:	1.0000
Sample Type:	Client Sample		
Sample ID:	580-19399-B-25-A		
Misc. Info.:	580-0009155-014		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	14
Lims Batch ID:	64507	Lims Sample ID:	14
Detector:	MS SCAN		

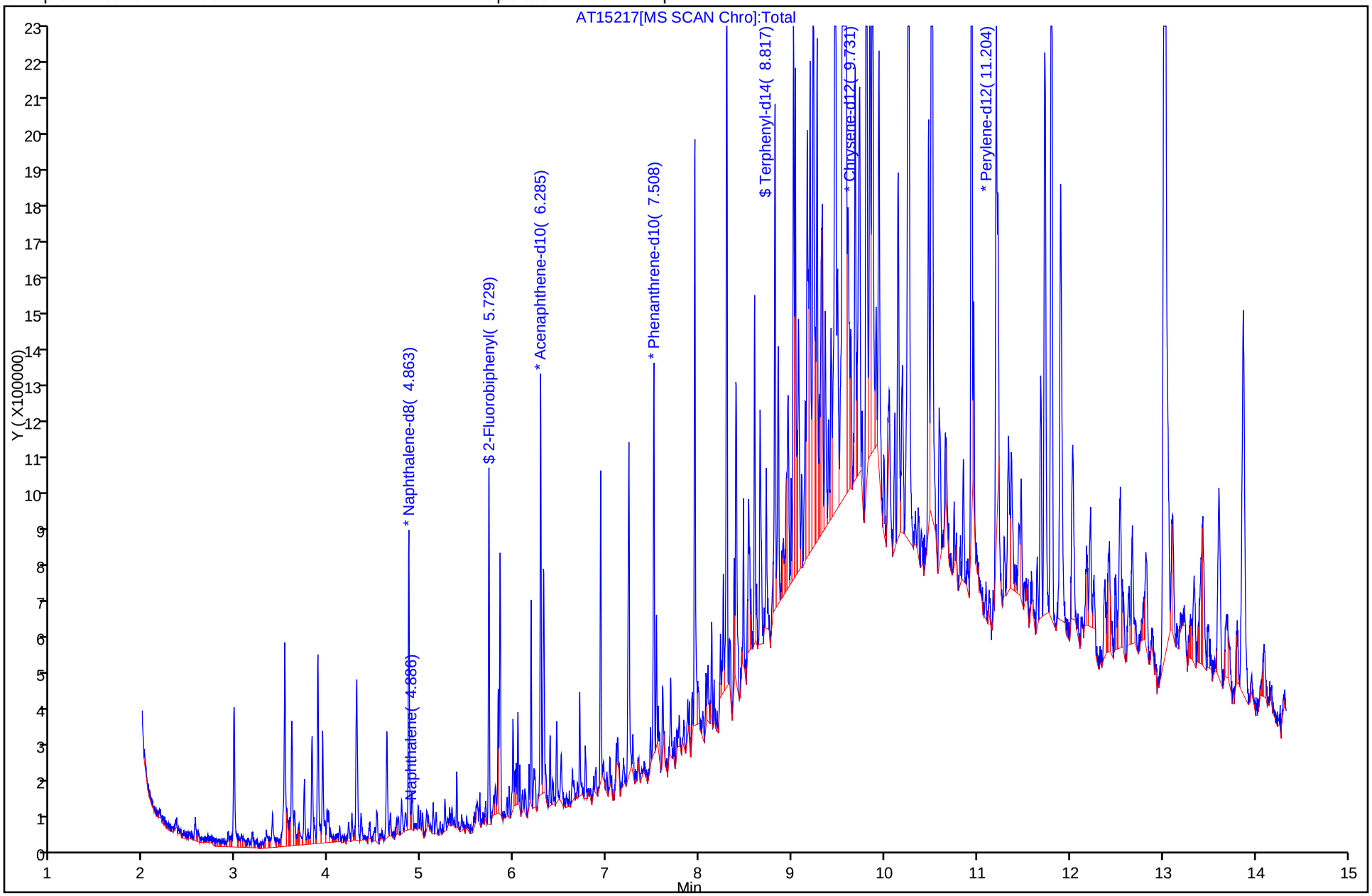
Method:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\8270C TAC002.m		
Last Update:	27-May-2010 16:37:33	Calib Date:	11-May-2010 17:59:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15090.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		

Reviewed By:	phama	Date:	27-May-2010 16:53:40

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.881	3.881	0.000	79959	994.5	
* 2 Naphthalene-d8	136	4.863	4.863	0.000	362561	997.0	
* 3 Acenaphthene-d10	164	6.285	6.288	-0.003	211038	968.0	
* 4 Phenanthrene-d10	188	7.508	7.508	0.000	384021	984.5	
* 5 Chrysene-d12	240	9.731	9.731	0.000	377729	974.0	
* 6 Perylene-d12	264	11.224	11.221	0.003	294683	983.0	
$ 9 Nitrobenzene-d5	82	4.298	4.296	0.002	100045	896.8	
$ 10 2-Fluorobiphenyl	172	5.729	5.729	0.000	288700	959.7	
$ 12 Terphenyl-d14	244	8.817	8.817	0.000	300737	787.8	
48 Naphthalene	128	4.877	4.880	-0.003	1090	2.85	

Report Date: 27-May-2010 16:53:40 Chrom Revision: 1.1 20-Apr-2010 06:13:18

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15217.D		
Inj Date:	27-May-2010 16:20:30	Limit Group:	8270C Standard
Lims Batch ID:	64507	Lims Sample ID:	14
Client ID:	04HMST	Instrument:	TAC002
Sample Info:	580-19399-B-25-A		
Sample Amount:	1.00 ul	Operator:	ap



FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1 Analy Batch No.: 63269

SDG No.:

Instrument ID: TAC002 GC Column: DB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 15:36 Calibration End Date: 05/11/2010 17:59 Calibration ID: 4953

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63269/5	AT15083.D
Level 2	IC 580-63269/6	AT15084.D
Level 3	IC 580-63269/7	AT15085.D
Level 4	IC 580-63269/8	AT15086.D
Level 5	IC 580-63269/9	AT15087.D
Level 6	IC 580-63269/10	AT15088.D
Level 7	IC 580-63269/11	AT15089.D
Level 8	IC 580-63269/12	AT15090.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
N-Nitrosodimethylamine	+++++ 0.2540	0.3244 0.2525	0.2295 0.2534	0.1941	0.2466	Lin1	-1.054	0.2518							0.9980		0.9900
Pyridine	+++++ 0.6089	0.4340 0.5801	0.4089 0.5932	0.4194	0.5659	Lin1	-71.55	0.5949							0.9980		0.9900
Cyclohexanone	+++++ 0.8104	0.7962 0.8103	0.8887 0.7239	0.6143	0.6980	Ave		0.7631				12.0		15.0			
Phenol	1.3724 1.6440	1.4527 1.7305	1.4164 1.6704	1.3316	1.5177	Ave		1.5170				9.8		15.0			
Aniline	1.5660 1.5535	1.7316 1.6030	1.3867 1.5176	1.7458	1.6945	Ave		1.5999				7.6		15.0			
Bis(2-chloroethyl)ether	1.0101 1.4080	1.0206 1.5981	1.4482 1.4905	1.0999	1.2360	Lin1	-18.57	1.4949							0.9960		0.9900
2-Chlorophenol	1.4081 1.5428	1.3365 1.5497	1.1725 1.4510	0.9862	1.4241	Ave		1.3589				14.0		15.0			
n-Decane	1.0729 1.2594	1.1805 1.2006	0.8402 1.1232	1.0717	1.1796	Ave		1.1160				12.0		15.0			
1,3-Dichlorobenzene	1.1242 1.6996	1.6134 1.7070	1.5508 1.5819	1.3511	1.4858	Ave		1.5142				13.0		15.0			
1,4-Dichlorobenzene	1.3459 1.7239	1.6348 1.6577	1.6194 1.6813	1.4968	1.7187	Ave		1.6098				8.0		15.0			
Benzyl alcohol	0.8630 0.9058	0.7100 0.9515	0.7122 0.8578	0.5895	0.8165	Lin1	-7.137	0.8799							0.9950		0.9900
1,2-Dichlorobenzene	1.6033 1.6082	1.6128 1.6103	1.4320 1.4677	1.4198	1.5300	Ave		1.5355				5.5		15.0			
2-Methylphenol	0.9333 1.3604	1.2164 1.4003	1.3562 1.3374	1.1321	1.3016	Ave		1.2547				12.0		15.0			
bis(chloroisopropyl) ether	1.5157 1.2914	1.2306 1.2998	1.1712 1.1652	1.0390	1.1430	Ave		1.2320				12.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1 Analy Batch No.: 63269

SDG No.:

Instrument ID: TAC002 GC Column: DB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 15:36 Calibration End Date: 05/11/2010 17:59 Calibration ID: 4953

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
3 & 4 Methylphenol	1.0080 1.3730	1.3096 1.3846	1.2158 1.3572	1.1543	1.2464	Ave		1.2561				10.0		15.0			
N-Nitrosodi-n-propylamine	0.5683 0.9240	0.8391 0.9051	0.9258 0.8053	0.7014	0.8343	Ave		0.8129			0.0500	15.0		15.0			
Acetophenone	1.7872 1.9377	1.6722 1.7800	1.5645 1.7475	1.5520	1.6652	Ave		1.7133				7.4		15.0			
Hexachloroethane	0.4688 0.5858	0.6278 0.5977	0.5751 0.5621	0.5640	0.5287	Ave		0.5638				8.5		15.0			
Nitrobenzene	0.2696 0.2965	0.3069 0.3011	0.2931 0.2971	0.2845	0.2763	Ave		0.2906				4.4		15.0			
Isophorone	0.6233 0.5809	0.5861 0.5708	0.5251 0.5793	0.5613	0.5173	Ave		0.5680				6.0		15.0			
2-Nitrophenol	0.1417 0.1831	0.1413 0.2087	0.1693 0.2104	0.1626	0.1826	Lin1	-2.780	0.2058							0.9970		0.9900
2,4-Dimethylphenol	0.2776 0.2622	0.2745 0.2879	0.1717 0.2762	0.2837	0.2646	Ave		0.2623				14.0		15.0			
Benzoic acid	+++++ 0.0936	+++++ 0.1207	0.0269 0.1615	0.0259	0.0569	Qua1	-46.12	0.0870	0						0.9970		0.9900
Bis(2-chloroethoxy)methane	0.2722 0.3823	0.3632 0.3851	0.3222 0.3760	0.3268	0.3604	Ave		0.3485				11.0		15.0			
2,4-Dichlorophenol	0.3035 0.2786	0.2253 0.2933	0.2598 0.2874	0.2457	0.2706	Ave		0.2705				9.6		15.0			
1,2,4-Trichlorobenzene	0.2799 0.3380	0.3476 0.3318	0.2993 0.3231	0.3440	0.3420	Ave		0.3257				7.4		15.0			
Naphthalene	1.1526 1.0535	1.0504 1.0789	1.0962 1.0445	0.9511	0.9979	Ave		1.0532				5.8		15.0			
4-Chloroaniline	0.4125 0.3374	0.4319 0.3142	0.3294 0.2155	0.3754	0.3533	Qua2	1.1065	0.3671	0						0.9930		0.9900
Hexachlorobutadiene	0.1960 0.1835	0.0553 0.1892	0.1610 0.1760	0.1970	0.1724	Lin1	-1.278	0.1805							0.9960		0.9900
4-Chloro-3-methylphenol	0.1740 0.2519	0.2140 0.2482	0.2074 0.2488	0.2353	0.2150	Ave		0.2243				12.0		15.0			
2-Methylnaphthalene	0.6649 0.6602	0.5986 0.6947	0.6074 0.6795	0.6801	0.6373	Ave		0.6528				5.4		15.0			
1-Methylnaphthalene	0.7423 0.7155	0.7543 0.6969	0.6640 0.6907	0.6551	0.6594	Ave		0.6973				5.4		15.0			
Hexachlorocyclopentadiene	0.2440 0.3238	0.1570 0.3453	0.2590 0.3680	0.3475	0.3077	Lin1	-5.628	0.3564			0.0500				0.9970		0.9900
2,4,6-Trichlorophenol	0.2270 0.3438	0.3223 0.3299	0.2938 0.3637	0.3007	0.3306	Ave		0.3140				13.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1 Analy Batch No.: 63269

SDG No.:

Instrument ID: TAC002 GC Column: DB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 15:36 Calibration End Date: 05/11/2010 17:59 Calibration ID: 4953

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2,3-Dichloroaniline	+++++ 0.6092	0.4525 0.5896	0.6302 0.5632	0.6416	0.6184	Ave		0.5864				11.0		15.0			
2,4,5-Trichlorophenol	+++++ 0.3828	0.4375 0.3721	0.3093 0.3930	0.3297	0.3348	Ave		0.3656				12.0		15.0			
Biphenyl	1.5838 1.4579	1.3761 1.3874	1.2753 1.4494	1.3682	1.4505	Ave		1.4186				6.3		15.0			
2-Chloronaphthalene	1.2979 1.1601	1.0759 1.1075	1.0863 1.1491	1.0783	1.1048	Ave		1.1325				6.5		15.0			
2-Nitroaniline	+++++ 0.1880	0.1819 0.1976	0.1884 0.1862	0.1660	0.1720	Lin1	-1.025	0.1885							0.9990		0.9900
Dimethyl phthalate	1.0451 1.1813	1.1346 1.1010	1.0593 1.1800	1.1464	1.1706	Ave		1.1273				4.8		15.0			
2,6-Dinitrotoluene	0.2760 0.3031	0.2662 0.3012	0.2590 0.3087	0.2349	0.2621	Lin1	-2.436	0.3034							0.9980		0.9900
Acenaphthylene	1.5334 1.7497	1.7309 1.7138	1.7272 1.7774	1.7850	1.6835	Ave		1.7126				4.6		15.0			
3-Nitroaniline	0.2984 0.2102	0.2108 +++++	0.1998 +++++	0.2091	0.2460	Qua1	0.2919	0.2294	0						0.9920		0.9900
Acenaphthene	1.1078 1.2198	1.1181 1.1624	1.1989 1.2010	1.1104	1.1458	Ave		1.1580				3.8		15.0			
2,4-Dinitrophenol	+++++ 0.1159	+++++ 0.1362	0.0517 0.1743	0.0538	0.0924	Qua2	-27.98	0.0974	0		0.0500				0.9910		0.9900
4-Nitrophenol	+++++ 0.0853	0.0312 0.0837	0.0555 0.0885	0.0538	0.0769	Lin1	-18.04	0.0878			0.0500				0.9980		0.9900
2,4-Dinitrotoluene	0.2787 0.3660	0.2474 0.3616	0.2176 0.3699	0.2546	0.3176	Lin1	-5.671	0.3646							0.9960		0.9900
Dibenzofuran	1.5004 1.5797	1.4649 1.5652	1.5796 1.6435	1.6123	1.5917	Ave		1.5672				3.7		15.0			
2,3,5,6-Tetrachlorophenol	0.1889 0.3055	0.1806 0.3024	0.1848 0.3332	0.2597	0.3029	Lin1	-5.858	0.3222							0.9970		0.9900
2,3,4,6-Tetrachlorophenol	+++++ 0.3284	0.2222 0.3129	0.3142 0.3572	0.2522	0.3070	Ave		0.2991				15.0		15.0			
Diethyl phthalate	1.3977 1.1466	0.9944 1.0361	1.1070 1.0897	1.0895	1.0526	Ave		1.1142				11.0		15.0			
4-Chlorophenyl phenyl ether	0.5092 0.6010	0.5720 0.5866	0.5813 0.6080	0.5823	0.6026	Ave		0.5804				5.4		15.0			
Fluorene	1.4565 1.3908	1.1254 1.2724	1.1296 1.3149	1.3364	1.2279	Ave		1.2817				9.2		15.0			
4-Nitroaniline	0.2329 0.1858	0.2255 0.1235	0.2085 0.1213	0.2741	0.2056	Qua	16.574	0.1388	0						0.9900		0.9900

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1 Analy Batch No.: 63269

SDG No.:

Instrument ID: TAC002 GC Column: DB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 15:36 Calibration End Date: 05/11/2010 17:59 Calibration ID: 4953

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
4,6-Dinitro-2-methylphenol	0.0485 0.1066	0.0463 0.1253	0.0597 0.1444	0.0726	0.0914	Qua1	-10.54	0.1000	0						0.9980		0.9900
N-Nitrosodiphenylamine	0.6474 0.6084	0.6566 0.5834	0.6064 0.4751	0.5491	0.6659	Ave		0.5990				11.0		15.0			
Azobenzene	0.5534 0.5888	0.5151 0.5820	0.5377 0.5810	0.5754	0.5753	Ave		0.5636				4.6		15.0			
4-Bromophenyl phenyl ether	0.2652 0.2528	0.2209 0.2496	0.2832 0.2497	0.0154	0.2327	Qua	-10.33	0.2567	0						0.9990		0.9900
Hexachlorobenzene	0.1837 0.3121	0.2601 0.3211	0.3086 0.3215	0.3190	0.2426	Lin1	-3.089	0.3178							0.9970		0.9900
Pentachlorophenol	+++++ 0.1278	+++++ 0.1613	0.0698 0.1701	0.1018	0.1291	Lin1	-12.99	0.1671							0.9950		0.9900
Octadecane	+++++ 0.1465	0.1850 0.1580	0.1584 0.1511	0.1794	0.1423	Ave		0.1601				10.0		15.0			
Phenanthrene	0.9431 1.0467	1.2135 1.0709	1.0597 1.0862	1.0304	1.0415	Ave		1.0615				7.1		15.0			
Anthracene	1.0204 0.9910	1.0448 1.0548	0.9787 1.0668	1.0465	1.0286	Ave		1.0289				3.0		15.0			
Carbazole	0.8804 0.9014	0.7861 +++++	0.8281 +++++	0.9619	0.9559	Ave		0.8856				7.9		15.0			
Di-n-butyl phthalate	+++++ 1.1482	1.3051 1.2791	1.3502 1.2908	1.1393	1.1109	Ave		1.2319				7.8		15.0			
Fluoranthene	0.9708 1.1439	1.1517 1.2232	0.9861 1.2269	1.0613	1.1197	Ave		1.1104				8.8		15.0			
Benzidine	+++++ 0.1384	0.2248 0.1063	0.2666 0.0764	0.1829	0.2062	Qua	35.336	0.1244	0						0.9900		0.9900
Pyrene	1.4920 1.2414	1.2475 1.3197	1.0508 1.3115	1.2158	1.2837	Ave		1.2703				9.7		15.0			
Butyl benzyl phthalate	0.4048 0.4490	0.4727 0.4590	0.4778 0.5074	0.4514	0.4241	Ave		0.4558				7.0		15.0			
3,3'-Dichlorobenzidine	0.3056 0.3191	0.2576 0.2858	0.3162 0.2543	0.3446	0.3564	Ave		0.3049				12.0		15.0			
Benzo[a]anthracene	1.2231 1.0791	1.1229 1.0643	0.9600 1.1453	0.9935	1.0446	Ave		1.0791				7.8		15.0			
Bis(2-ethylhexyl) phthalate	+++++ 0.6604	0.7863 0.6637	0.7041 0.7143	0.6699	0.6422	Ave		0.6916				7.1		15.0			
Chrysene	1.5353 1.0265	1.2283 1.0001	1.1039 1.0626	1.1056	1.0654	Ave		1.1410				15.0		15.0			
Di-n-octyl phthalate	1.0835 1.1361	0.9473 1.1886	0.9150 1.2664	0.9935	1.0197	Ave		1.0688				11.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1 Analy Batch No.: 63269

SDG No.:

Instrument ID: TAC002 GC Column: DB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 15:36 Calibration End Date: 05/11/2010 17:59 Calibration ID: 4953

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Benzo[b]fluoranthene	0.9818 1.2007	1.3255 1.2098	1.0804 1.3372	1.2532	1.1944	Ave		1.1979				9.9		15.0			
Benzofluoranthene	0.9814 1.2875	1.3499 1.2546	1.2157 1.3422	1.2803	1.2087	Ave		1.2401				9.4		15.0			
Benzo[k]fluoranthene	0.9642 1.3713	1.2990 1.3064	1.3522 1.3457	1.2731	1.2160	Ave		1.2660				10.0		15.0			
Benzo[a]pyrene	1.1622 1.1888	1.0952 1.2108	1.2324 1.2991	1.1934	1.1362	Ave		1.1898				5.2		15.0			
Indeno[1,2,3-cd]pyrene	1.3038 1.5041	1.0813 1.5204	1.3937 1.6167	1.3778	1.3835	Ave		1.3977				12.0		15.0			
Dibenz(a,h)anthracene	0.9010 1.3036	0.9720 1.2715	1.1372 1.3714	1.1216	1.1487	Ave		1.1534				14.0		15.0			
Benzo[g,h,i]perylene	0.9916 1.2884	0.9276 1.2912	1.2499 1.3313	1.2139	1.1676	Ave		1.1827				12.0		15.0			
2-Fluorophenol	+++++ 1.4132	0.9729 1.3417	1.2783 1.4008	1.1391	1.2840	Ave		1.2615				12.0		15.0			
Phenol-d5	1.4838 1.8178	1.3091 1.8345	1.6897 1.8060	1.4014	1.7385	Ave		1.6351				13.0		15.0			
Nitrobenzene-d5	+++++ 0.3202	0.3165 0.3241	0.2736 0.3200	0.2847	0.3083	Ave		0.3068				6.4		15.0			
2-Fluorobiphenyl	1.3618 1.4905	1.2238 1.3857	1.3377 1.4128	1.4432	1.3829	Ave		1.3798				5.7		15.0			
2,4,6-Tribromophenol	+++++ 0.1870	0.1357 0.1860	0.1835 0.1975	0.1425	0.1572	Ave		0.1699				14.0		15.0			
Terphenyl-d14	0.9121 0.9714	0.9881 1.0133	0.9131 1.0650	1.0114	1.0006	Ave		0.9844				5.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1 Analy Batch No.: 63269

SDG No.:

Instrument ID: TAC002 GC Column: DB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 15:36 Calibration End Date: 05/11/2010 17:59 Calibration ID: 4953

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 580-63269/5	AT15083.D
Level 2	IC 580-63269/6	AT15084.D
Level 3	IC 580-63269/7	AT15085.D
Level 4	IC 580-63269/8	AT15086.D
Level 5	IC 580-63269/9	AT15087.D
Level 6	IC 580-63269/10	AT15088.D
Level 7	IC 580-63269/11	AT15089.D
Level 8	IC 580-63269/12	AT15090.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
N-Nitrosodimethylamine	DCB	Lin1	+++++ 79772	6281 149852	9328 446108	13529	42194	+++++ 5000	250 10000	500 25000	1000	2500
Pyridine	DCB	Lin1	+++++ 191264	8403 344261	16616 1044573	29229	96831	+++++ 5000	250 10000	500 25000	1000	2500
Cyclohexanone	DCB	Ave	+++++ 50911	3083 96177	7223 254930	8562	23887	+++++ 1000	50.0 2000	100 5000	200	500
Phenol	DCB	Ave	2538 103284	5625 205399	11512 588260	18558	51934	20.0 1000	50.0 2000	100 5000	200	500
Aniline	DCB	Ave	2896 97599	6705 190256	11271 534430	24332	57986	20.0 1000	50.0 2000	100 5000	200	500
Bis(2-chloroethyl)ether	DCB	Lin1	1868 88460	3952 189678	11771 524897	15330	42296	20.0 1000	50.0 2000	100 5000	200	500
2-Chlorophenol	DCB	Ave	2604 96926	5175 183940	9530 510973	13745	48731	20.0 1000	50.0 2000	100 5000	200	500
n-Decane	DCB	Ave	1984 79122	4571 142499	6829 395540	14937	40364	20.0 1000	50.0 2000	100 5000	200	500
1,3-Dichlorobenzene	DCB	Ave	2079 106776	6247 202603	12605 557086	18830	50844	20.0 1000	50.0 2000	100 5000	200	500
1,4-Dichlorobenzene	DCB	Ave	2489 108304	6330 196755	13162 592078	20861	58815	20.0 1000	50.0 2000	100 5000	200	500
Benzyl alcohol	DCB	Lin1	1596 56907	2749 112936	5789 302076	8216	27941	20.0 1000	50.0 2000	100 5000	200	500
1,2-Dichlorobenzene	DCB	Ave	2965 101035	6245 191126	11639 516857	19788	52356	20.0 1000	50.0 2000	100 5000	200	500
2-Methylphenol	DCB	Ave	1726 85464	4710 166198	11023 470965	15778	44542	20.0 1000	50.0 2000	100 5000	200	500
bis(chloroisopropyl) ether	DCB	Ave	2803 81133	4765 154271	9519 410338	14480	39112	20.0 1000	50.0 2000	100 5000	200	500
3 & 4 Methylphenol	DCB	Ave	1864 86258	5071 164342	9882 477945	16087	42651	20.0 1000	50.0 2000	100 5000	200	500

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1 Analy Batch No.: 63269

SDG No.:

Instrument ID: TAC002 GC Column: DB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 15:36 Calibration End Date: 05/11/2010 17:59 Calibration ID: 4953

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
N-Nitrosodi-n-propylamine	DCB	Ave	1051 58048	3249 107432	7525 283599	9775	28549	20.0 1000	50.0 2000	100 5000	200	500
Acetophenone	DCB	Ave	3305 121736	6475 211269	12716 615380	21631	56981	20.0 1000	50.0 2000	100 5000	200	500
Hexachloroethane	DCB	Ave	867 36803	2431 70944	4674 197962	7861	18092	20.0 1000	50.0 2000	100 5000	200	500
Nitrobenzene	NPT	Ave	1990 80610	5152 155244	10359 439430	15259	40494	20.0 1000	50.0 2000	100 5000	200	500
Isophorone	NPT	Ave	4601 157943	9839 294277	18561 856977	30105	75806	20.0 1000	50.0 2000	100 5000	200	500
2-Nitrophenol	NPT	Lin1	1046 49798	2372 107614	5984 311200	8723	26754	20.0 1000	50.0 2000	100 5000	200	500
2,4-Dimethylphenol	NPT	Ave	2049 71304	4608 148424	6070 408566	15215	38783	20.0 1000	50.0 2000	100 5000	200	500
Benzoic acid	NPT	Qua1	+++++ 127321	+++++ 311036	4746 1194558	6948	41669	+++++ 5000	+++++ 10000	500 25000	1000	2500
Bis(2-chloroethoxy)methane	NPT	Ave	2009 103943	6097 198549	11387 556248	17526	52814	20.0 1000	50.0 2000	100 5000	200	500
2,4-Dichlorophenol	NPT	Ave	2240 75754	3782 151221	9182 425123	13178	39656	20.0 1000	50.0 2000	100 5000	200	500
1,2,4-Trichlorobenzene	NPT	Ave	2066 91907	5836 171034	10580 477986	18450	50117	20.0 1000	50.0 2000	100 5000	200	500
Naphthalene	NPT	Ave	8508 286461	17635 556243	38745 1545088	51014	146247	20.0 1000	50.0 2000	100 5000	200	500
4-Chloroaniline	NPT	Qua2	3045 91753	7251 161993	11641 318708	20136	51772	20.0 1000	50.0 2000	100 5000	200	500
Hexachlorobutadiene	NPT	Lin1	1447 49894	928 97537	5689 260420	10564	25270	20.0 1000	50.0 2000	100 5000	200	500
4-Chloro-3-methylphenol	NPT	Ave	1284 68494	3592 127977	7332 368030	12622	31515	20.0 1000	50.0 2000	100 5000	200	500
2-Methylnaphthalene	NPT	Ave	4908 179510	10049 358139	21470 1005168	36479	93400	20.0 1000	50.0 2000	100 5000	200	500
1-Methylnaphthalene	NPT	Ave	5479 194554	12663 359308	23468 1021776	35138	96639	20.0 1000	50.0 2000	100 5000	200	500
Hexachlorocyclopentadiene	ANT	Lin1	991 51630	1531 108006	5047 313689	10988	26043	20.0 1000	50.0 2000	100 5000	200	500
2,4,6-Trichlorophenol	ANT	Ave	922 54822	3144 103167	5727 309979	9508	27988	20.0 1000	50.0 2000	100 5000	200	500
2,3-Dichloroaniline	ANT	Ave	+++++ 97094	4412 184350	12278 479825	20280	52328	+++++ 1000	50.0 1999	100.0 4998	200	500
2,4,5-Trichlorophenol	ANT	Ave	+++++ 61026	4268 116389	6029 334942	10426	28338	+++++ 1000	50.0 2000	100 5000	200	500

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1 Analy Batch No.: 63269

SDG No.:

Instrument ID: TAC002 GC Column: DB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 15:36 Calibration End Date: 05/11/2010 17:59 Calibration ID: 4953

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Biphenyl	ANT	Ave	6432 232453	13423 433945	24856 1235392	43264	122784	20.0 1000	50.0 2000	100 5000	200	500
2-Chloronaphthalene	ANT	Ave	5271 184969	10495 346379	21172 979403	34095	93517	20.0 1000	50.0 2000	100 5000	200	500
2-Nitroaniline	ANT	Lin1	+++++ 29979	1774 61812	3672 158693	5248	14557	+++++ 1000	50.0 2000	100 5000	200	500
Dimethyl phthalate	ANT	Ave	4244 188347	11067 344345	20646 1005793	36250	99088	20.0 1000	50.0 2000	100 5000	200	500
2,6-Dinitrotoluene	ANT	Lin1	1121 48321	2597 94211	5047 263138	7429	22188	20.0 1000	50.0 2000	100 5000	200	500
Acenaphthylene	ANT	Ave	6227 278970	16884 536022	33664 1514970	56444	142503	20.0 1000	50.0 2000	100 5000	200	500
3-Nitroaniline	ANT	Qua1	1212 33522	2056 +++++	3895 +++++	6613	20820	20.0 1000	50.0 +++++	100 +++++	200	500
Acenaphthene	ANT	Ave	4499 194479	10906 363550	23366 1023708	35111	96991	20.0 1000	50.0 2000	100 5000	200	500
2,4-Dinitrophenol	ANT	Qua2	+++++ 92345	+++++ 213006	5041 742596	8512	39086	+++++ 4999	+++++ 9999	500 24997	1000	2500
4-Nitrophenol	ANT	Lin1	+++++ 68011	1522 130873	5405 377284	8505	32528	+++++ 5000	250 10000	500 25000	1000	2500
2,4-Dinitrotoluene	ANT	Lin1	1132 58362	2413 113111	4242 315316	8050	26888	20.0 1000	50.0 2000	100 5000	200	500
Dibenzofuran	ANT	Ave	6093 251866	14289 489557	30786 1400855	50983	134730	20.0 1000	50.0 2000	100 5000	200	500
2,3,5,6-Tetrachlorophenol	ANT	Lin1	767 48702	1762 94581	3601 284012	8212	25638	20.0 1000	50.0 2000	100 5000	200	500
2,3,4,6-Tetrachlorophenol	ANT	Ave	+++++ 52355	2167 97851	6123 304461	7976	25989	+++++ 1000	50.0 2000	100 5000	200	500
Diethyl phthalate	ANT	Ave	5676 182805	9700 324060	21575 928791	34449	89103	20.0 1000	50.0 2000	100 5000	200	500
4-Chlorophenyl phenyl ether	ANT	Ave	2068 95821	5579 183464	11329 518215	18414	51011	20.0 1000	50.0 2000	100 5000	200	500
Fluorene	ANT	Ave	5915 221752	10978 397952	22016 1120777	42257	103941	20.0 1000	50.0 2000	100 5000	200	500
4-Nitroaniline	ANT	Qua	946 29629	2200 38620	4064 103394	8667	17402	20.0 1000	50.0 2000	100 5000	200	500
4,6-Dinitro-2-methylphenol	PHN	Qua1	1628 147511	3626 319367	9917 1018503	19653	64347	100 5000	250 10000	500 25000	1000	2500
N-Nitrosodiphenylamine	PHN	Ave	4345 168405	10285 297301	20162 670223	29729	93745	20.0 1000	50.0 2000	100 5000	200	500
Azobenzene	PHN	Ave	3714 162981	8069 296589	17877 819529	31154	80989	20.0 1000	50.0 2000	100 5000	200	500

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1 Analy Batch No.: 63269

SDG No.:

Instrument ID: TAC002 GC Column: DB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 15:36 Calibration End Date: 05/11/2010 17:59 Calibration ID: 4953

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
4-Bromophenyl phenyl ether	PHN	Qua	1780 69975	3461 127182	9416 352178	836	32757	20.0 1000	50.0 2000	100 5000	200	500
Hexachlorobenzene	PHN	Lin1	1233 86374	4075 163620	10261 453554	17268	34161	20.0 1000	50.0 2000	100 5000	200	500
Pentachlorophenol	PHN	Lin1	+++++ 35363	+++++ 82215	2322 239915	5509	18175	+++++ 1000	+++++ 2000	100 5000	200	500
Octadecane	PHN	Ave	+++++ 40549	2898 80518	5265 213202	9714	20038	+++++ 1000	50.0 2000	100 5000	200	500
Phenanthrene	PHN	Ave	6330 289699	19009 545746	35232 1532279	55783	146636	20.0 1000	50.0 2000	100 5000	200	500
Anthracene	PHN	Ave	6849 274281	16367 537541	32540 1504786	56656	144814	20.0 1000	50.0 2000	100 5000	200	500
Carbazole	PHN	Ave	5909 249489	12315 +++++	27532 +++++	52076	134585	20.0 1000	50.0 +++++	100 +++++	200	500
Di-n-butyl phthalate	PHN	Ave	+++++ 317815	20445 651866	44893 1820803	61678	156396	+++++ 1000	50.0 2000	100 5000	200	500
Fluoranthene	PHN	Ave	6516 316600	18041 623364	32787 1730690	57459	157638	20.0 1000	50.0 2000	100 5000	200	500
Benzidine	PHN	Qua	+++++ 76613	7044 108331	17730 215679	19799	58047	+++++ 2000	100 4000	200 10000	400	1000
Pyrene	PHN	Ave	10014 343597	19543 672522	34938 1850016	65823	180736	20.0 1000	50.0 2000	100 5000	200	500
Butyl benzyl phthalate	CRY	Ave	2850 140387	7139 273694	16571 787062	25908	66477	20.0 1000	50.0 2000	100 5000	200	500
3,3'-Dichlorobenzidine	CRY	Ave	4303 199524	7779 340816	21930 788978	39564	111744	40.0 2000	100 4000	200 10000	400	1000
Benzo[a]anthracene	CRY	Ave	8610 337396	16958 634627	33293 1776570	57025	163753	20.0 1000	50.0 2000	100 5000	200	500
Bis(2-ethylhexyl) phthalate	CRY	Ave	+++++ 206480	11874 395748	24417 1108122	38452	100680	+++++ 1000	50.0 2000	100 5000	200	500
Chrysene	CRY	Ave	10808 320930	18550 596318	38283 1648285	63462	167022	20.0 1000	50.0 2000	100 5000	200	500
Di-n-octyl phthalate	PRY	Ave	7063 320738	11499 657836	28753 1822532	52421	150823	20.0 1000	50.0 2000	100 5000	200	500
Benzo[b]fluoranthene	PRY	Ave	6400 338967	16091 669530	33953 1924414	66129	176674	20.0 1000	50.0 2000	100 5000	200	500
Benzofluoranthene	PRY	Ave	12795 726981	32774 1388715	76407 3863209	135118	357581	40.0 2000	100 4000	200 10000	400	1000
Benzo[k]fluoranthene	PRY	Ave	6285 387141	15769 723019	42492 1936645	67176	179860	20.0 1000	50.0 2000	100 5000	200	500
Benzo[a]pyrene	PRY	Ave	7576 335635	13295 670116	38728 1869590	62971	168066	20.0 1000	50.0 2000	100 5000	200	500

FORM VI
GC/MS SEMI VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1 Analy Batch No.: 63269

SDG No.:

Instrument ID: TAC002 GC Column: DB-5MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 05/11/2010 15:36 Calibration End Date: 05/11/2010 17:59 Calibration ID: 4953

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Indeno[1,2,3-cd]pyrene	PRY	Ave	8499 424644	13126 841426	43798 2326614	72701	204633	20.0 1000	50.0 2000	100 5000	200	500
Dibenz(a,h)anthracene	PRY	Ave	5873 368024	11799 703683	35738 1973524	59183	169903	20.0 1000	50.0 2000	100 5000	200	500
Benzo[g,h,i]perylene	PRY	Ave	6464 363732	11260 714576	39278 1915907	64053	172709	20.0 1000	50.0 2000	100 5000	200	500
2-Fluorophenol	DCB	Ave	+++++ 88076	3737 157974	10307 489366	15749	43588	+++++ 992	49.6 1984	99.2 4960	198	496
Phenol-d5	DCB	Ave	2685 111750	4960 213056	13438 622329	19111	58211	19.6 979	48.9 1957	97.9 4893	196	489
Nitrobenzene-d5	NPT	Ave	+++++ 85678	5229 164438	9516 465752	15024	44463	+++++ 984	49.2 1968	98.4 4920	197	492
2-Fluorobiphenyl	ANT	Ave	5453 234314	11770 427340	25706 1187343	44995	115416	19.7 986	49.3 1972	98.6 4930	197	493
2,4,6-Tribromophenol	PHN	Ave	+++++ 50972	2093 93352	6007 274384	7597	21792	+++++ 985	49.2 1970	98.5 4924	197	492
Terphenyl-d14	CRY	Ave	6228 294602	14474 586073	30715 1602546	56313	152159	19.4 970	48.5 1940	97.0 4850	194	485

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD
Qua = Quadratic ISTD
Qua1 = Quadratic 1/conc ISTD
Qua2 = Quadratic 1/conc^2 ISTD

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D		
Lims ID:	ic std 20 ppb	Client ID:	
Inject. Date:	11-May-2010 15:36:30	Dil. Factor:	1.0000
Sample Type:	IC, ICal Standard	Calib Level:	1
Sample ID:	ic std 20 ppb		
Misc. Info.:	580-0008740-005		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	3
Lims Batch ID:	63269	Lims Sample ID:	5
Sublist:	chrom-8270C TAC002*sub8		
Detector:	MS SCAN		
Method:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\8270C TAC002.m		
Last Update:	26-May-2010 16:12:53	Calib Date:	11-May-2010 17:36:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15089.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		
Reviewed By:	phama	Date:	11-May-2010 16:37:41
Reviewed By:	phama	Date:	11-May-2010 18:20:15
Reviewed By:	phama	Date:	11-May-2010 18:46:14
Reviewed By:	phama	Date:	11-May-2010 18:50:53
Reviewed By:	phama	Date:	19-May-2010 09:59:49
Reviewed By:	phama	Date:	26-May-2010 16:12:13
Reviewed By:	phama	Date:	26-May-2010 16:12:53

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.892	3.893	-0.001	91955	994.5	
* 2 Naphthalene-d8	136	4.877	4.875	0.002	367962	997.0	
* 3 Acenaphthene-d10	164	6.302	6.299	0.003	196554	968.0	
* 4 Phenanthrene-d10	188	7.525	7.520	0.005	330390	984.5	
* 5 Chrysene-d12	240	9.745	9.742	0.003	342836	974.0	
* 6 Perylene-d12	264	11.243	11.235	0.008	320383	983.0	
$ 7 2-Fluorophenol	112	2.978	2.976	0.002	1639	14.1	
$ 8 Phenol-d5	99	3.597	3.589	0.008	2685	17.8	M
$ 9 Nitrobenzene-d5	82	4.307	4.307	0.000	3298	29.1	M
$ 10 2-Fluorobiphenyl	172	5.743	5.740	0.003	5453	19.5	
$ 11 2,4,6-Tribromophenol	329	6.941	6.944	-0.003	608	10.7	M
$ 12 Terphenyl-d14	244	8.828	8.828	0.000	6228	18.0	
22 Pyridine	52	2.292	2.249	0.043	2780	170.8	M
23 N-Nitrosodimethylamine	42	2.277	2.249	0.028	4472	196.3	M
24 Cyclohexanone	55	3.188	3.183	0.005	1915	27.1	
25 Phenol	94	3.597	3.597	0.000	2538	18.1	
26 Aniline	93	3.660	3.654	0.006	2896	19.6	
27 Bis(2-chloroethyl)ether	93	3.694	3.688	0.006	1868	25.9	M
28 2-Chlorophenol	128	3.739	3.739	0.000	2604	20.7	M
29 n-Decane	57	3.756	3.753	0.003	1984	19.2	
30 1,3-Dichlorobenzene	146	3.850	3.853	-0.003	2079	14.8	
31 1,4-Dichlorobenzene	146	3.904	3.904	0.000	2489	16.7	
32 Benzyl alcohol	108	3.980	3.983	-0.003	1596	27.7	
33 1,2-Dichlorobenzene	146	4.023	4.020	0.003	2965	20.9	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
34 2-Methylphenol	108	4.046	4.051	-0.005	1726	14.9	
35 2,2'-oxybis[1-chloropropane]	45	4.085	4.080	0.005	2803	24.6	
36 3 & 4 Methylphenol	108	4.168	4.162	0.006	1864	16.0	
38 N-Nitrosodi-n-propylamine	70	4.187	4.182	0.005	1051	14.0	M
37 Acetophenone	105	4.196	4.191	0.005	3305	20.9	M
39 Hexachloroethane	117	4.273	4.279	-0.006	867	16.6	
40 Nitrobenzene	77	4.324	4.321	0.003	1990	18.6	
41 Isophorone	82	4.505	4.503	0.002	4601	21.9	
42 2-Nitrophenol	139	4.562	4.568	-0.006	1046	27.3	
43 2,4-Dimethylphenol	107	4.579	4.582	-0.003	2049	21.2	
44 Benzoic acid	105	4.673	4.636	0.037	225	527.5	
45 Bis(2-chloroethoxy)methane	93	4.664	4.665	-0.001	2009	15.6	M
46 2,4-Dichlorophenol	162	4.749	4.750	-0.001	2240	22.4	M
47 1,2,4-Trichlorobenzene	180	4.820	4.823	-0.003	2066	17.2	
48 Naphthalene	128	4.891	4.892	-0.001	8508	21.9	
49 4-Chloroaniline	127	4.925	4.923	0.002	3045	19.5	
50 Hexachlorobutadiene	225	4.985	4.985	0.000	1447	28.8	
51 4-Chloro-3-methylphenol	107	5.300	5.297	0.003	1284	15.5	
52 2-Methylnaphthalene	142	5.448	5.445	0.003	4908	20.4	
53 1-Methylnaphthalene	142	5.530	5.527	0.003	5479	21.3	
54 Hexachlorocyclopentadiene	237	5.578	5.573	0.005	991	29.5	
55 2,4,6-Trichlorophenol	196	5.669	5.666	0.003	922	14.5	
56 2,3-Dichlorobenzenamine	161	5.675	5.672	0.003	1430	12.0	
57 2,4,5-Trichlorophenol	196	5.697	5.695	0.002	1064	14.3	
58 1,1'-Biphenyl	154	5.825	5.823	0.002	6432	22.3	
59 2-Chloronaphthalene	162	5.845	5.842	0.003	5271	22.9	
60 2-Nitroaniline	65	5.919	5.919	0.000	236	11.6	
62 Dimethyl phthalate	163	6.064	6.064	0.000	4244	18.5	
63 2,6-Dinitrotoluene	165	6.112	6.112	0.000	1121	26.2	
64 Acenaphthylene	152	6.188	6.186	0.002	6227	17.9	
65 3-Nitroaniline	138	6.251	6.251	0.000	1212	24.8	
66 Acenaphthene	153	6.330	6.325	0.005	4499	19.1	
67 2,4-Dinitrophenol	184	6.336	6.336	0.000	429	305.9	
68 4-Nitrophenol	109	6.376	6.373	0.003	1936	314.1	
69 2,4-Dinitrotoluene	165	6.444	6.444	0.000	1132	30.8	
70 Dibenzofuran	168	6.469	6.467	0.002	6093	19.1	
71 2,3,5,6-Tetrachlorophenol	232	6.532	6.526	0.006	767	29.9	M
72 2,3,4,6-Tetrachlorophenol	232	6.566	6.560	0.006	973	16.0	
73 Diethyl phthalate	149	6.643	6.643	0.000	5676	25.1	M
76 4-Chlorophenyl phenyl ether	204	6.742	6.745	-0.003	2068	17.5	
75 Fluorene	166	6.756	6.751	0.005	5915	22.7	M
77 4-Nitroaniline	138	6.748	6.756	-0.008	946	-85.6	7
78 4,6-Dinitro-2-methylphenol	198	6.773	6.776	-0.003	1628	153.4	
79 N-Nitrosodiphenylamine	169	6.838	6.839	-0.001	4345	21.6	
80 Azobenzene	77	6.875	6.873	0.002	3714	19.6	
81 4-Bromophenyl phenyl ether	248	7.153	7.148	0.005	1780	60.9	M
82 Hexachlorobenzene	284	7.205	7.199	0.006	1233	21.3	
83 Pentachlorophenol	266	7.358	7.358	0.000	194	81.2	
84 n-Octadecane	43	7.417	7.415	0.002	1682	31.3	M
86 Phenanthrene	178	7.542	7.543	0.000	6330	17.8	
87 Anthracene	178	7.588	7.582	0.006	6849	19.8	M
89 Carbazole	167	7.715	7.707	0.008	5909	19.9	M

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
90 Di-n-butyl phthalate	149	7.991	7.988	0.003	13162	31.8	
95 Fluoranthene	202	8.516	8.522	-0.006	6516	17.5	
94 Benzidine	184	8.626	8.624	0.002	4370	-178.1	7
93 Pyrene	202	8.714	8.709	0.005	10014	23.5	
97 Butyl benzyl phthalate	149	9.228	9.223	0.005	2850	17.8	
98 3,3'-Dichlorobenzidine	252	9.699	9.700	-0.001	4303	40.1	
99 Benzo[a]anthracene	228	9.733	9.731	0.002	8610	22.7	
101 Bis(2-ethylhexyl) phthalate	149	9.736	9.731	0.005	8520	35.0	
100 Chrysene	228	9.767	9.765	0.002	10808	26.9	
102 Di-n-octyl phthalate	149	10.420	10.412	0.008	7063	20.3	M
103 Benzo[b]fluoranthene	252	10.843	10.841	0.002	6400	16.4	
105 Benzofluoranthene	252	10.872	10.869	0.003	12795	31.7	M
104 Benzo[k]fluoranthene	252	10.872	10.869	0.003	6285	15.2	
106 Benzo[a]pyrene	252	11.184	11.175	0.009	7576	19.5	
107 Indeno[1,2,3-cd]pyrene	276	12.518	12.518	0.000	8499	18.7	M
108 Dibenz(a,h)anthracene	278	12.532	12.529	0.003	5873	15.6	
109 Benzo[g,h,i]perylene	276	12.881	12.878	0.003	6464	16.8	

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
M - Manually Integrated

Report Date: 26-May-2010 16:12:53 Chrom Revision: 1.1 20-Apr-2010 06:13:18

Data File: \\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D

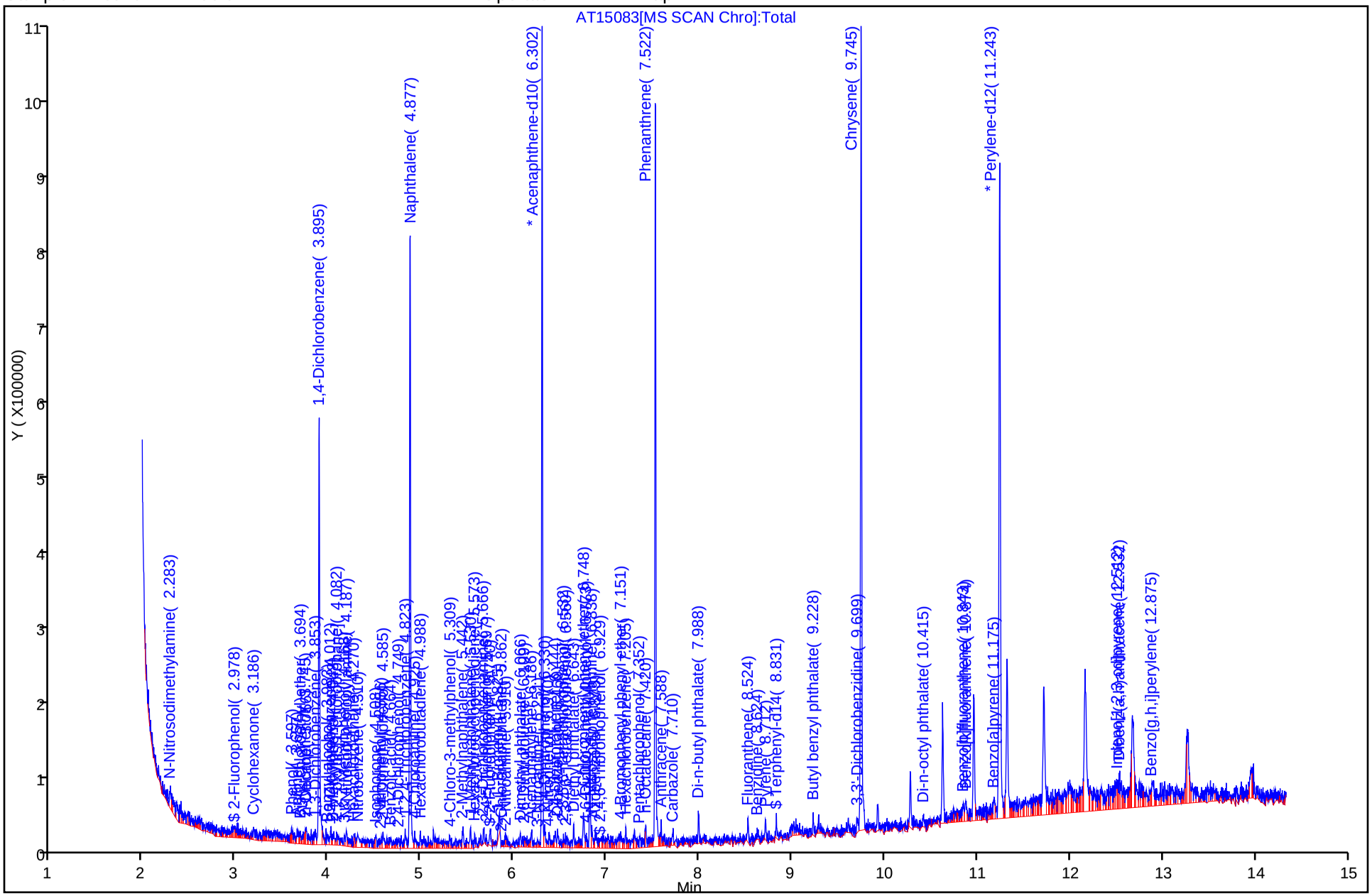
Inj Date: 11-May-2010 15:36:30 Limit Group: 8270C Standard

Lims Batch ID: 63269 Lims Sample ID: 5

Client ID: Instrument: TAC002

Sample Info: ic std 20 ppb

Sample Amount: 1.00 ul Operator: ap



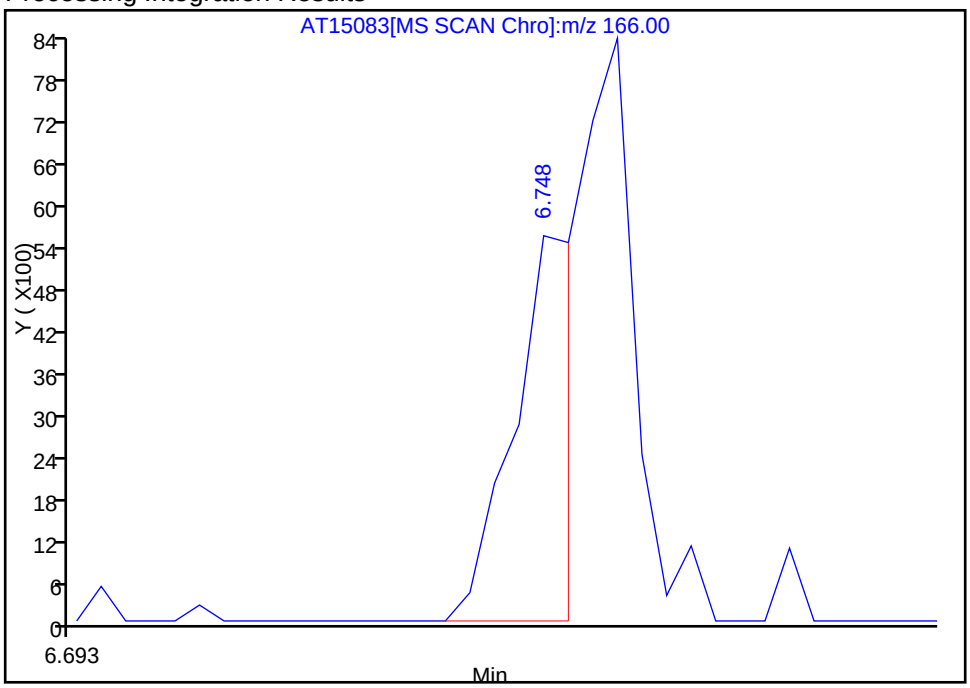
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D		
Inj Date:	11-May-2010 15:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	5
Client ID:		Instrument:	TAC002
Sample Info:	ic std 20 ppb		
Sample Amount:	1.00 ul	Operator:	ap

75 Fluorene, Number: 1, m/z: 166 Type: quant, RT: 6.75

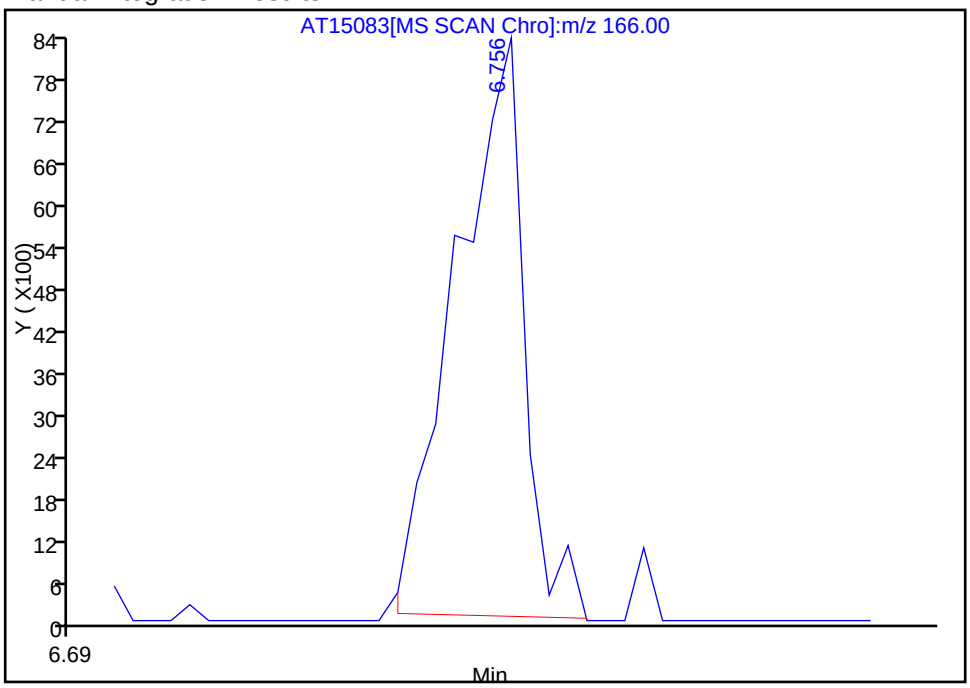
Processing Integration Results

RT: 6.75
Response: 2298
Amount: 83.625951



Manual Integration Results

RT: 6.76
Response: 5915
Amount: 22.727146



Reviewer: phama, 11-May-2010 18:20:15
Audit Action: Manually Integrated
Audit Reason: Wrong peak

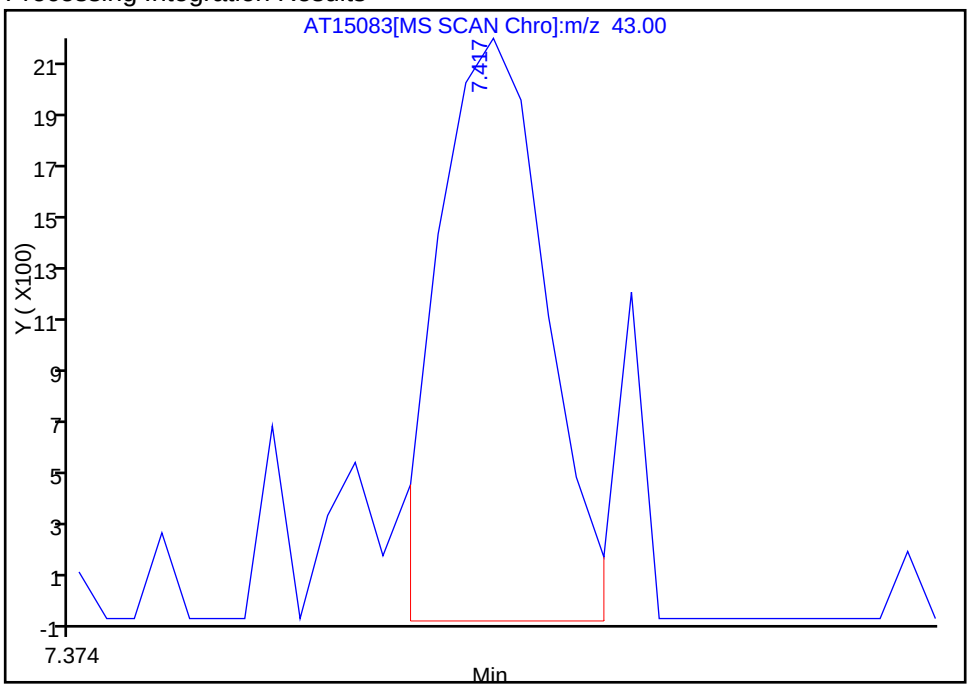
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D		
Inj Date:	11-May-2010 15:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	5
Client ID:		Instrument:	TAC002
Sample Info:	ic std 20 ppb		
Sample Amount:	1.00 ul	Operator:	ap

84 n-Octadecane, Number: 1, m/z: 43 Type: quant, RT: 7.41

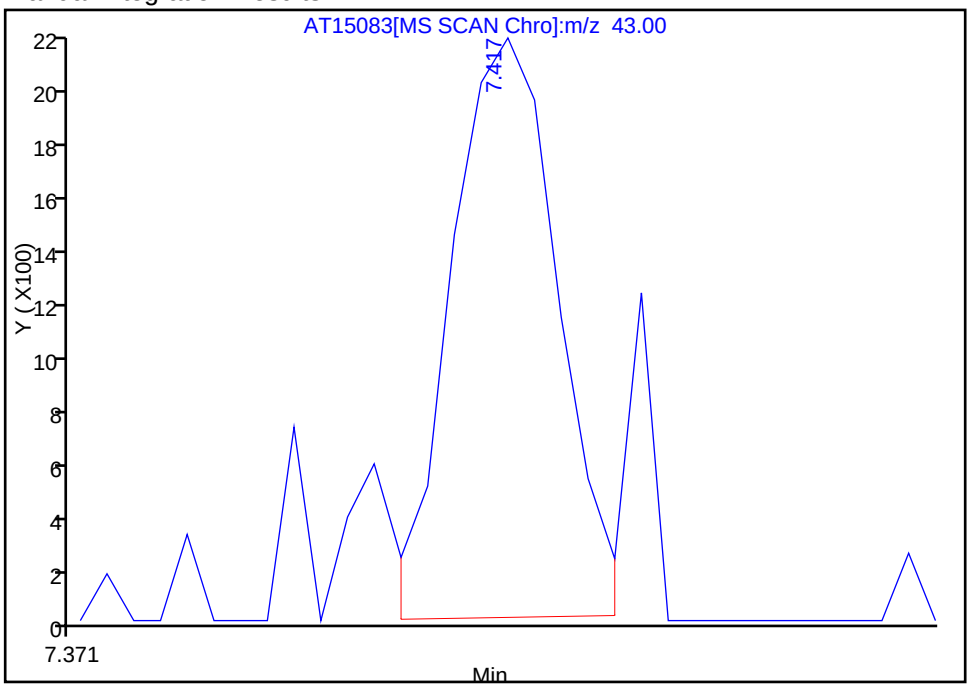
Processing Integration Results

RT: 7.42
Response: 1646
Amount: 82.568961



Manual Integration Results

RT: 7.42
Response: 1682
Amount: 31.304478



Reviewer: phama, 11-May-2010 18:20:15
Audit Action: Manually Integrated
Audit Reason: Assign Peak

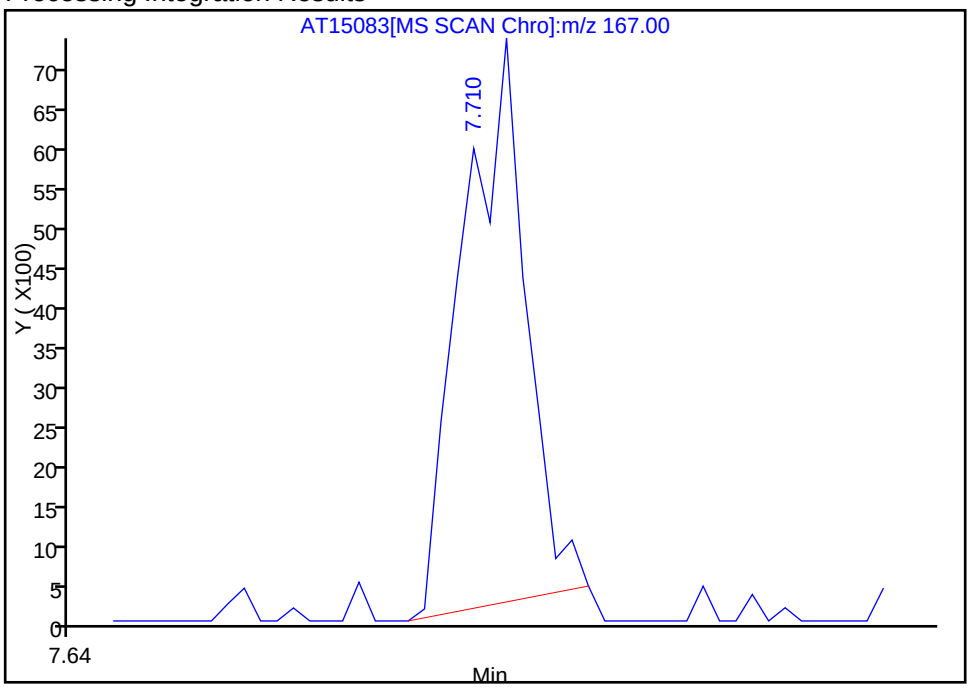
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D		
Inj Date:	11-May-2010 15:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	5
Client ID:		Instrument:	TAC002
Sample Info:	ic std 20 ppb		
Sample Amount:	1.00 ul	Operator:	ap

89 Carbazole, Number: 1, m/z: 167 Type: quant, RT: 7.71

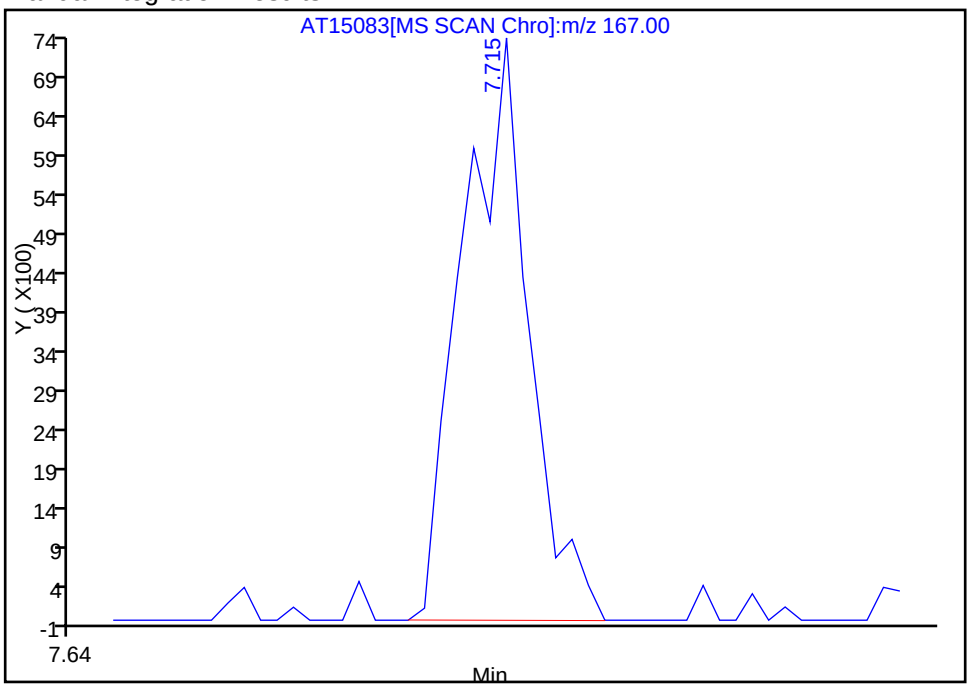
Processing Integration Results

RT: 7.71
Response: 5454
Amount: 12.214768



Manual Integration Results

RT: 7.72
Response: 5909
Amount: 19.881368



Reviewer: phama, 11-May-2010 18:20:15
Audit Action: Manually Integrated
Audit Reason: Baseline

Chrom Revision: 1.1 20-Apr-2010 06:13:18

Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D		
Inj Date:	11-May-2010 15:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	5
Client ID:		Instrument:	TAC002
Sample Info:	ic std 20 ppb		
Sample Amount:	1.00 ul	Operator:	ap

46 2,4-Dichlorophenol, Number: 1, m/z: 162 Type: quant, RT: 4.75

Processing Integration Results

Not Detected

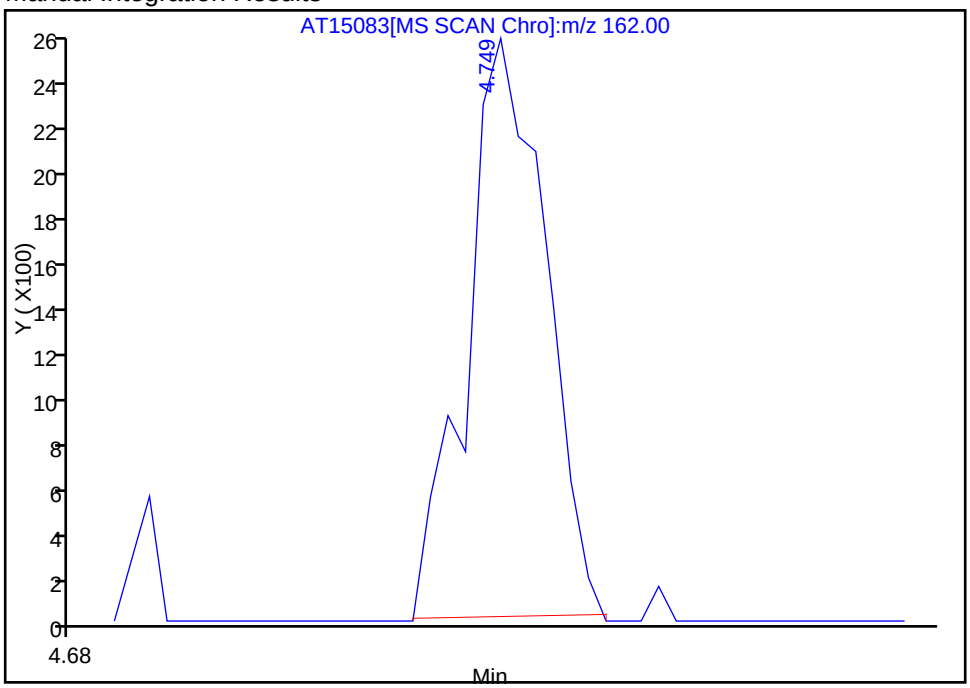
Expected RT: 4.75

Manual Integration Results

RT: 4.75

Response: 2240

Amount: 22.436152



Reviewer: phama, 11-May-2010 18:20:15

Audit Action: Manually Integrated

Audit Reason: Assign Peak

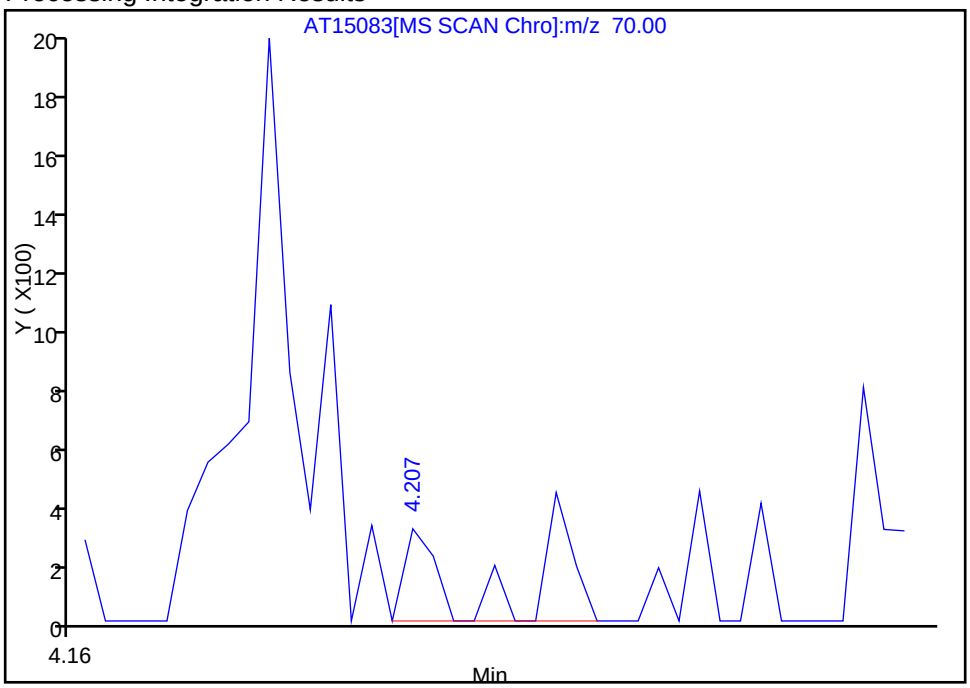
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D		
Inj Date:	11-May-2010 15:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	5
Client ID:		Instrument:	TAC002
Sample Info:	ic std 20 ppb		
Sample Amount:	1.00 ul	Operator:	ap

38 N-Nitrosodi-n-propylamine, Number: 1, m/z: 70 Type: quant, RT: 4.18

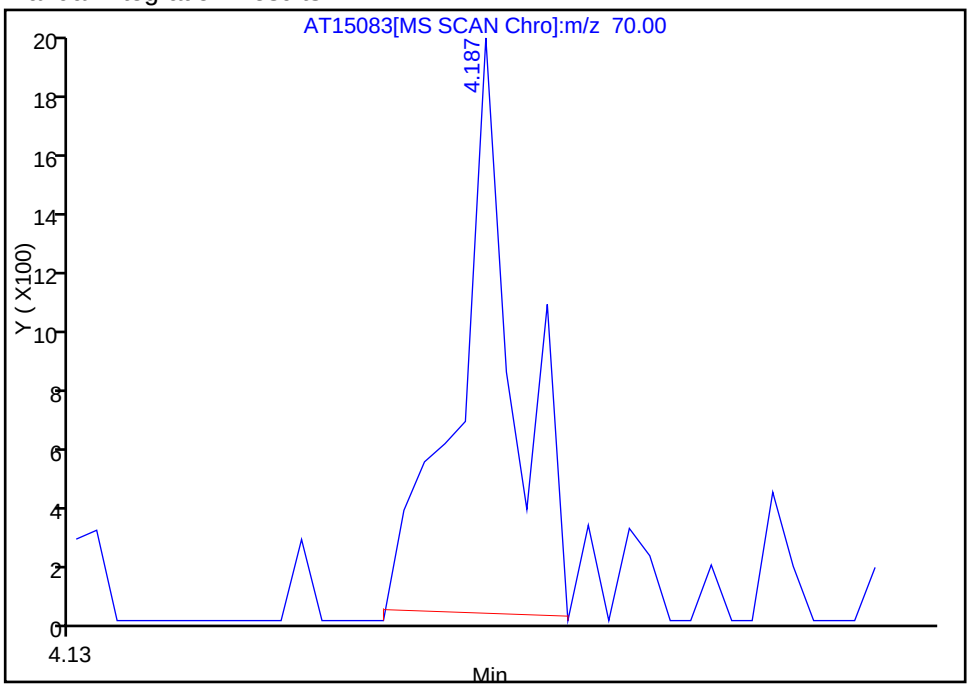
Processing Integration Results

RT: 4.21
Response: 226
Amount: 2.344359



Manual Integration Results

RT: 4.19
Response: 1051
Amount: 13.982521



Reviewer: phama, 11-May-2010 18:20:15
Audit Action: Manually Integrated
Audit Reason: Wrong peak

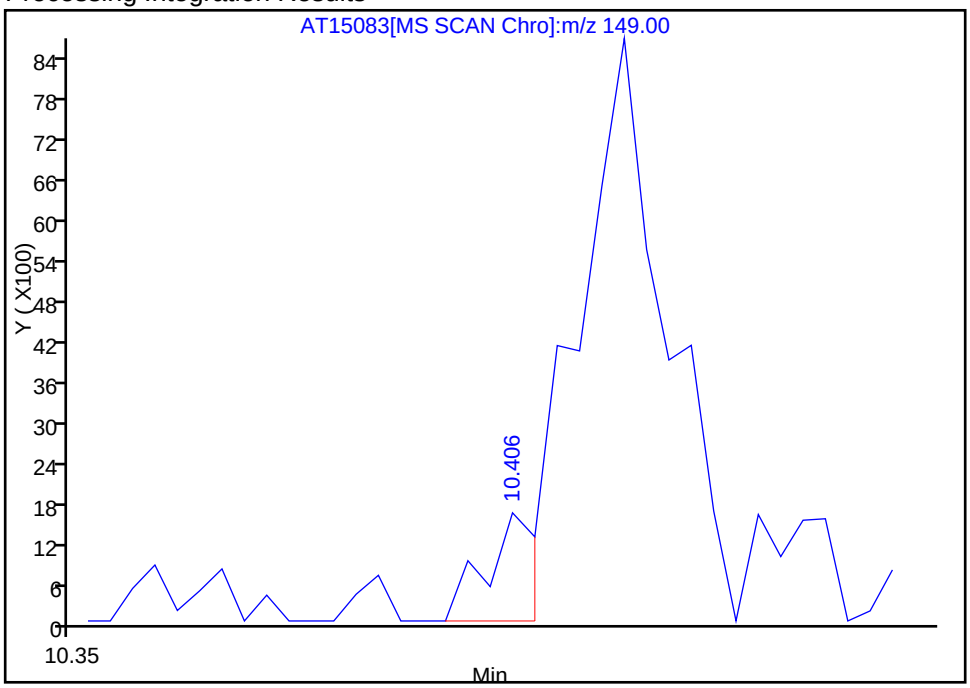
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D		
Inj Date:	11-May-2010 15:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	5
Client ID:		Instrument:	TAC002
Sample Info:	ic std 20 ppb		
Sample Amount:	1.00 ul	Operator:	ap

102 Di-n-octyl phthalate, Number: 1, m/z: 149 Type: quant, RT: 10.41

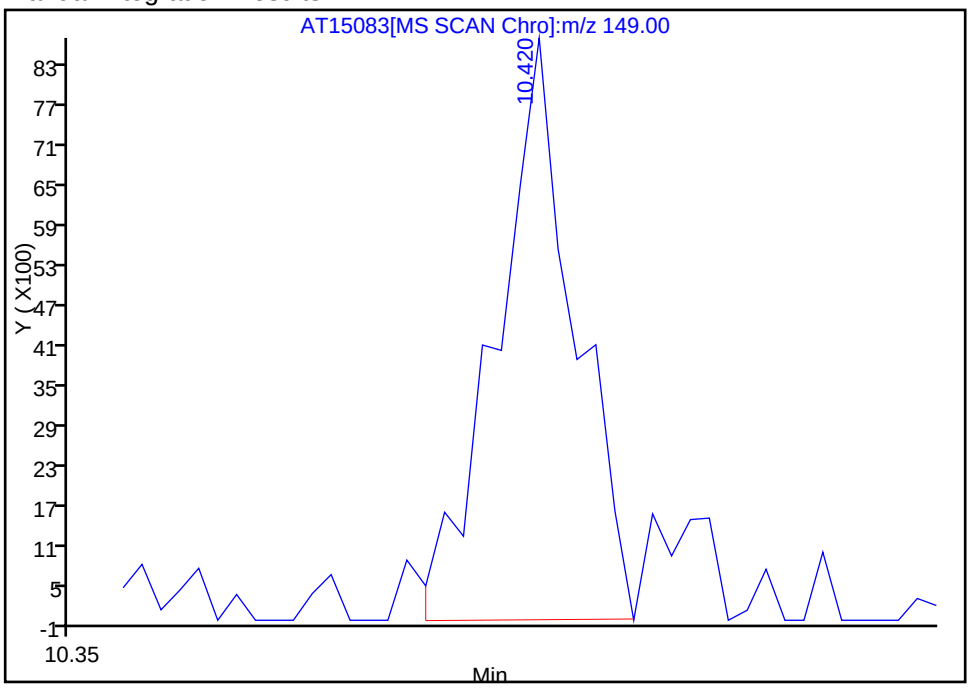
Processing Integration Results

RT: 10.41
Response: 620
Amount: 87.783581



Manual Integration Results

RT: 10.42
Response: 7063
Amount: 20.276576



Reviewer: phama, 11-May-2010 18:20:15
Audit Action: Manually Integrated
Audit Reason: Wrong peak

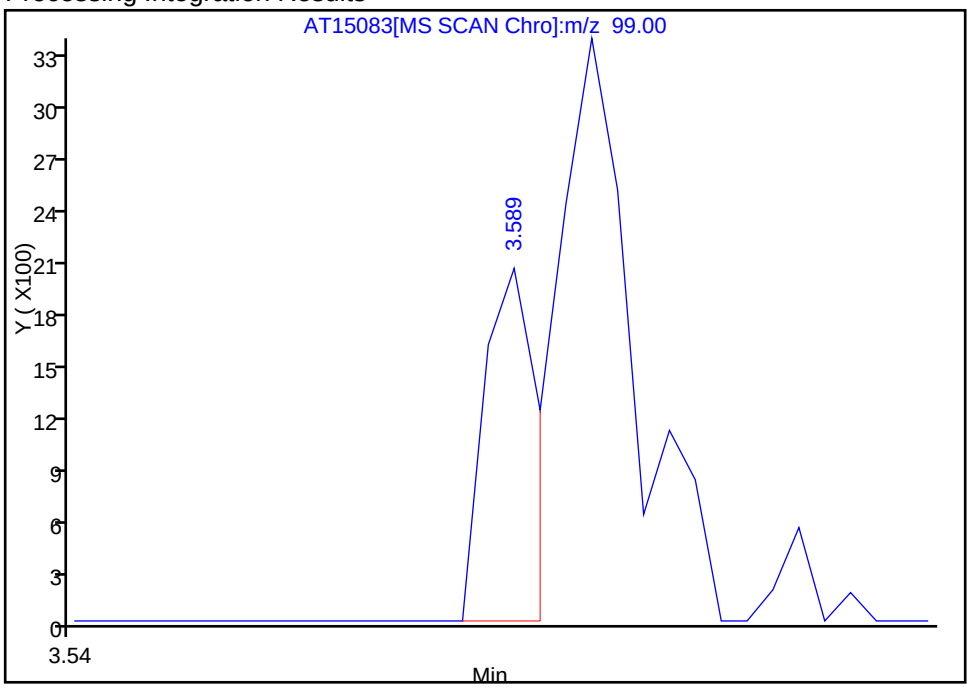
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D		
Inj Date:	11-May-2010 15:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	5
Client ID:		Instrument:	TAC002
Sample Info:	ic std 20 ppb		
Sample Amount:	1.00 ul	Operator:	ap

$ 8 Phenol-d5, Number: 1, m/z: 99 Type: quant, RT: 3.59

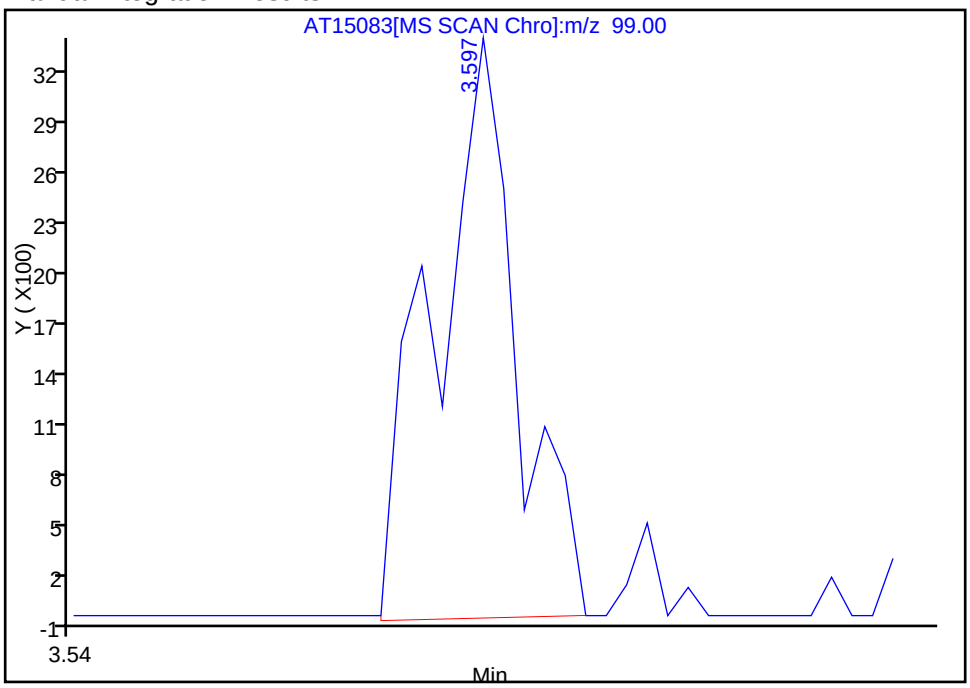
Processing Integration Results

RT: 3.59
Response: 721
Amount: 4.879858



Manual Integration Results

RT: 3.60
Response: 2685
Amount: 17.759427



Reviewer: phama, 11-May-2010 18:20:15
Audit Action: Manually Integrated
Audit Reason: Assign Peak

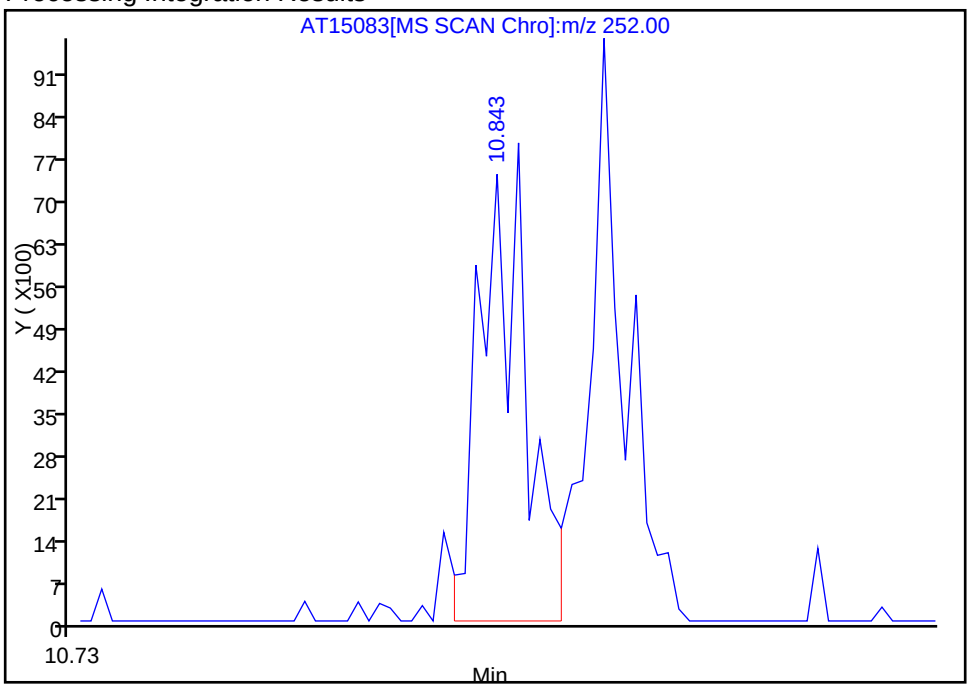
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D		
Inj Date:	11-May-2010 15:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	5
Client ID:		Instrument:	TAC002
Sample Info:	ic std 20 ppb		
Sample Amount:	1.00 ul	Operator:	ap

105 Benzofluoranthene, Number: 1, m/z: 252 Type: quant, RT: 10.87

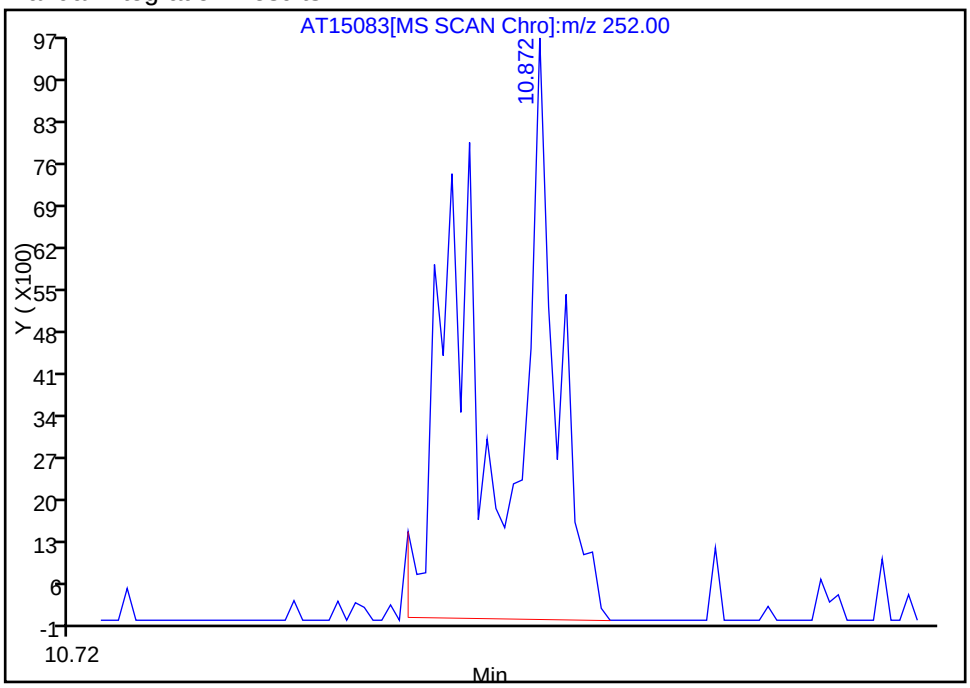
Processing Integration Results

RT: 10.84
Response: 6400
Amount: 169.5772



Manual Integration Results

RT: 10.87
Response: 12795
Amount: 31.657702



Reviewer: phama, 11-May-2010 18:20:15
Audit Action: Manually Integrated
Audit Reason: Other

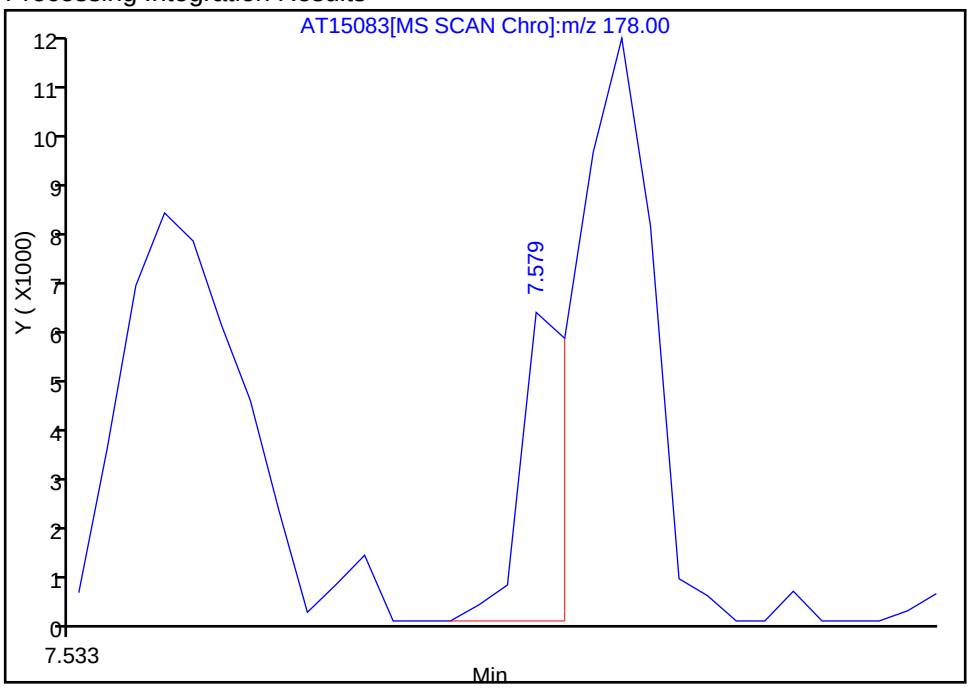
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D		
Inj Date:	11-May-2010 15:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	5
Client ID:		Instrument:	TAC002
Sample Info:	ic std 20 ppb		
Sample Amount:	1.00 ul	Operator:	ap

87 Anthracene, Number: 1, m/z: 178 Type: quant, RT: 7.58

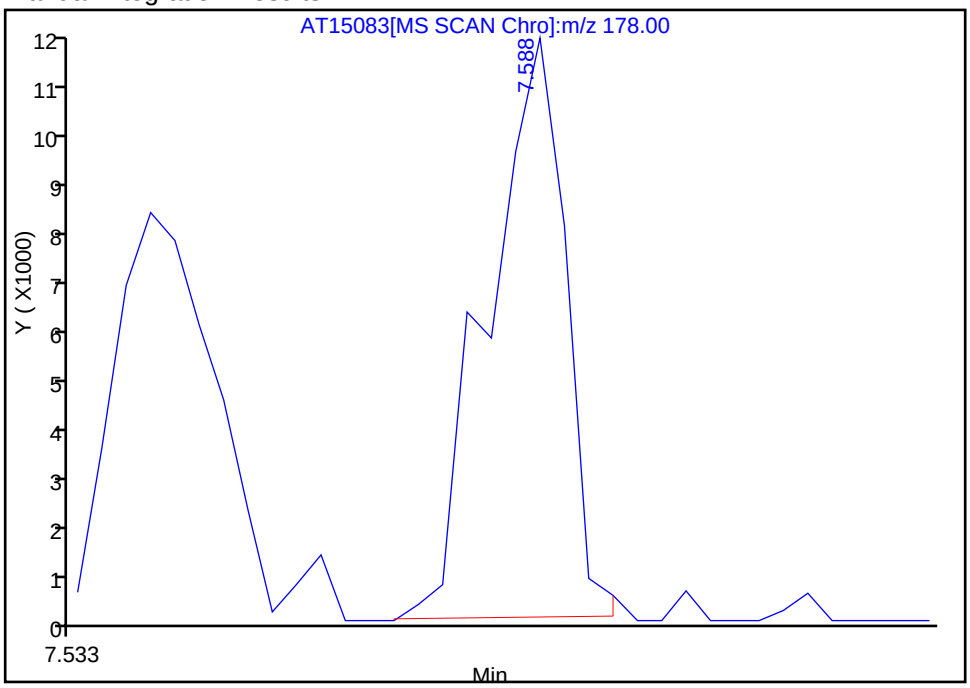
Processing Integration Results

RT: 7.58
Response: 1625
Amount: 42.012109



Manual Integration Results

RT: 7.59
Response: 6849
Amount: 19.834683



Reviewer: phama, 11-May-2010 18:20:15
Audit Action: Manually Integrated
Audit Reason: Other

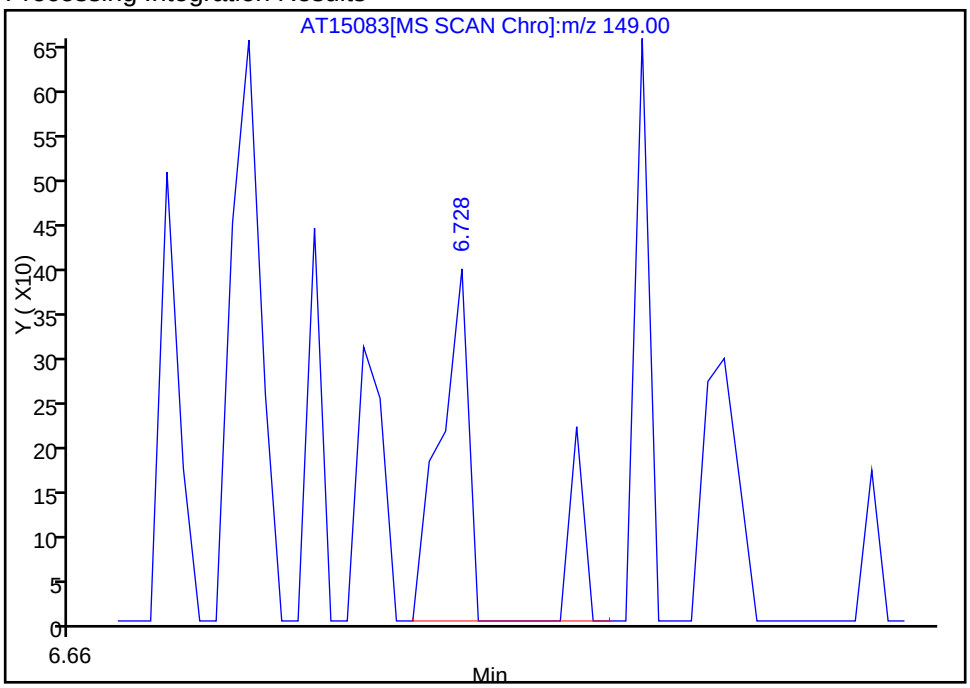
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D		
Inj Date:	11-May-2010 15:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	5
Client ID:		Instrument:	TAC002
Sample Info:	ic std 20 ppb		
Sample Amount:	1.00 ul	Operator:	ap

73 Diethyl phthalate, Number: 1, m/z: 149 Type: quant, RT: 6.64

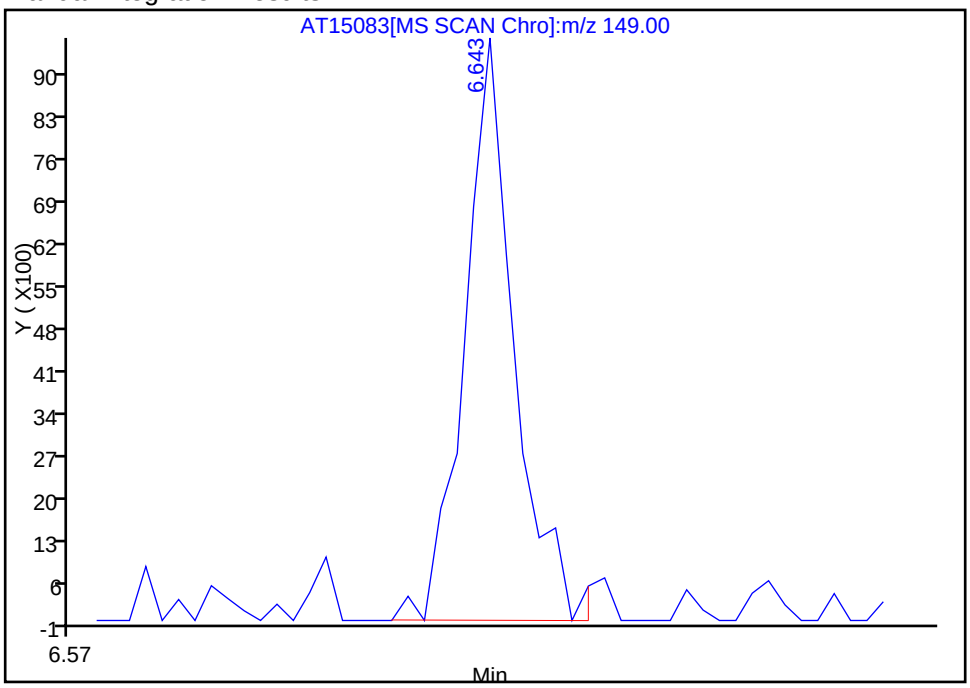
Processing Integration Results

RT: 6.73
Response: 171
Amount: 67.663935



Manual Integration Results

RT: 6.64
Response: 5676
Amount: 25.088637



Reviewer: phama, 11-May-2010 18:20:15
Audit Action: Manually Integrated
Audit Reason: Wrong peak

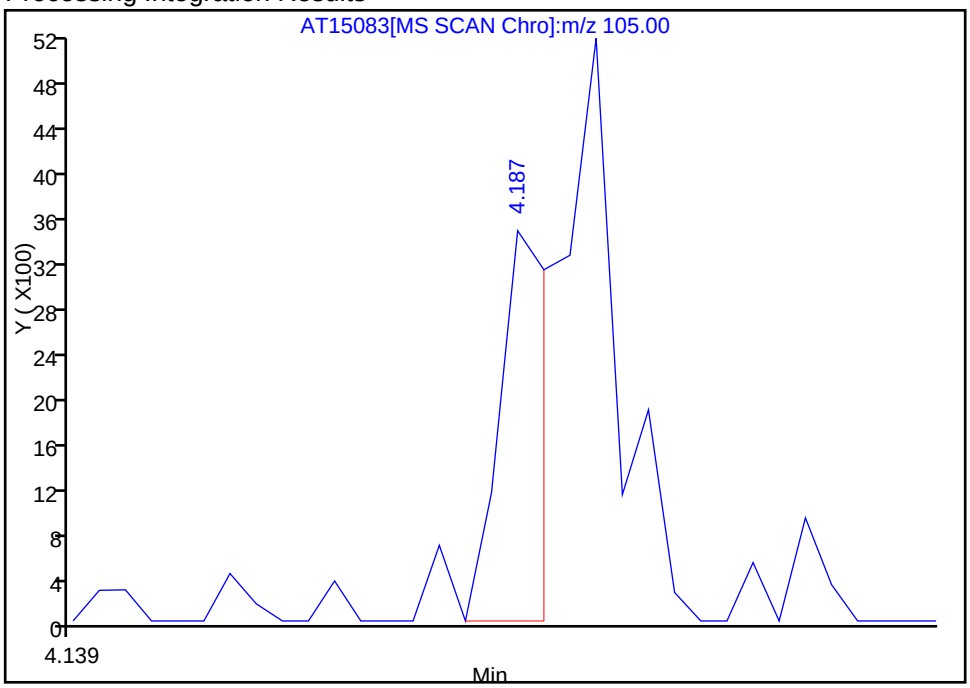
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D		
Inj Date:	11-May-2010 15:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	5
Client ID:		Instrument:	TAC002
Sample Info:	ic std 20 ppb		
Sample Amount:	1.00 ul	Operator:	ap

37 Acetophenone, Number: 1, m/z: 105 Type: quant, RT: 4.19

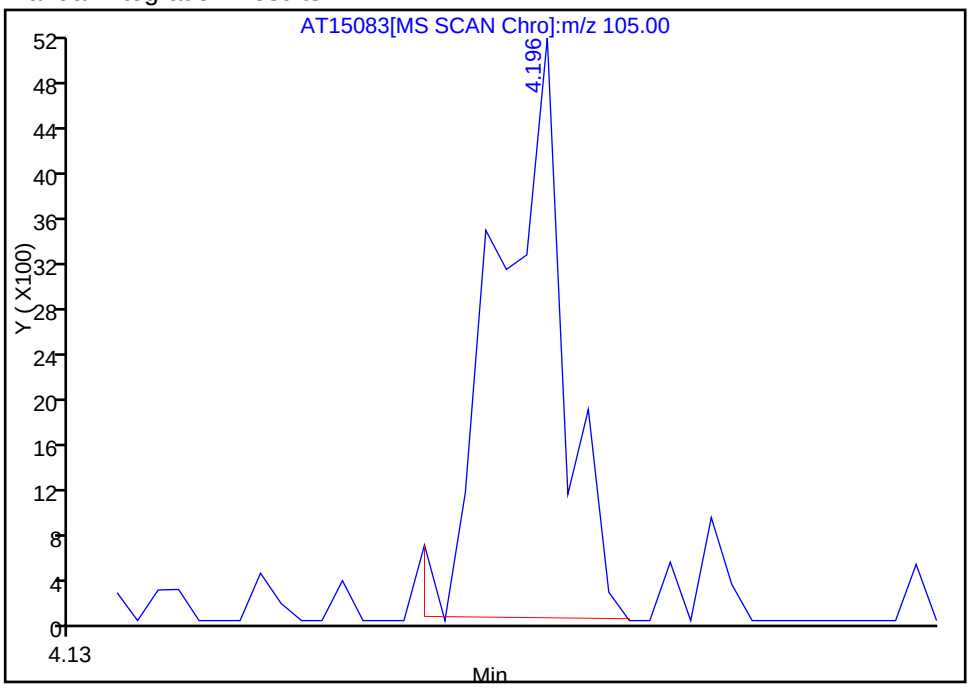
Processing Integration Results

RT: 4.19
Response: 1047
Amount: 7.760394



Manual Integration Results

RT: 4.20
Response: 3305
Amount: 20.862692



Reviewer: phama, 11-May-2010 18:20:15
Audit Action: Manually Integrated
Audit Reason: Other

Chrom Revision: 1.1 20-Apr-2010 06:13:18

Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D		
Inj Date:	11-May-2010 15:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	5
Client ID:		Instrument:	TAC002
Sample Info:	ic std 20 ppb		
Sample Amount:	1.00 ul	Operator:	ap

28 2-Chlorophenol, Number: 1, m/z: 128 Type: quant, RT: 3.74

Processing Integration Results

Not Detected

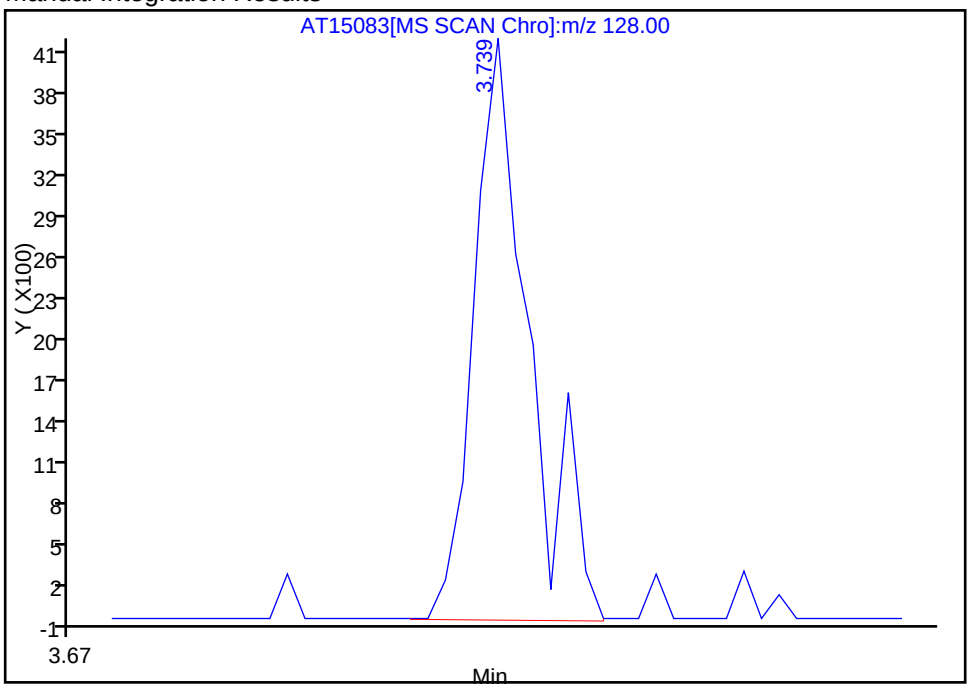
Expected RT: 3.74

Manual Integration Results

RT: 3.74

Response: 2604

Amount: 20.724916



Reviewer: phama, 11-May-2010 18:20:15

Audit Action: Manually Integrated

Audit Reason: Assign Peak

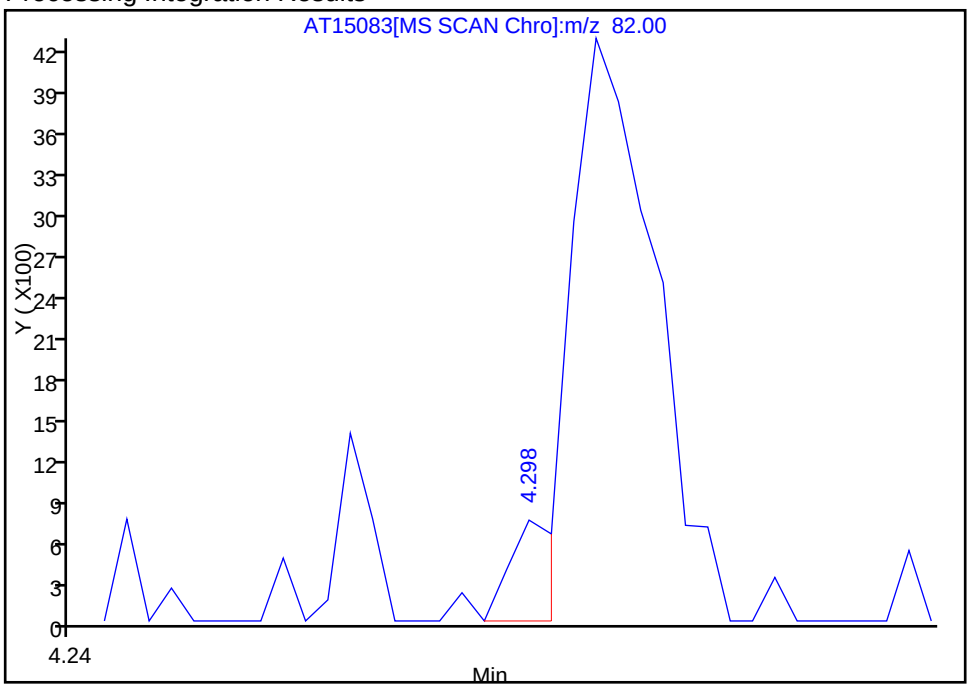
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D		
Inj Date:	11-May-2010 15:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	5
Client ID:		Instrument:	TAC002
Sample Info:	ic std 20 ppb		
Sample Amount:	1.00 ul	Operator:	ap

$ 9 Nitrobenzene-d5, Number: 1, m/z: 82 Type: quant, RT: 4.31

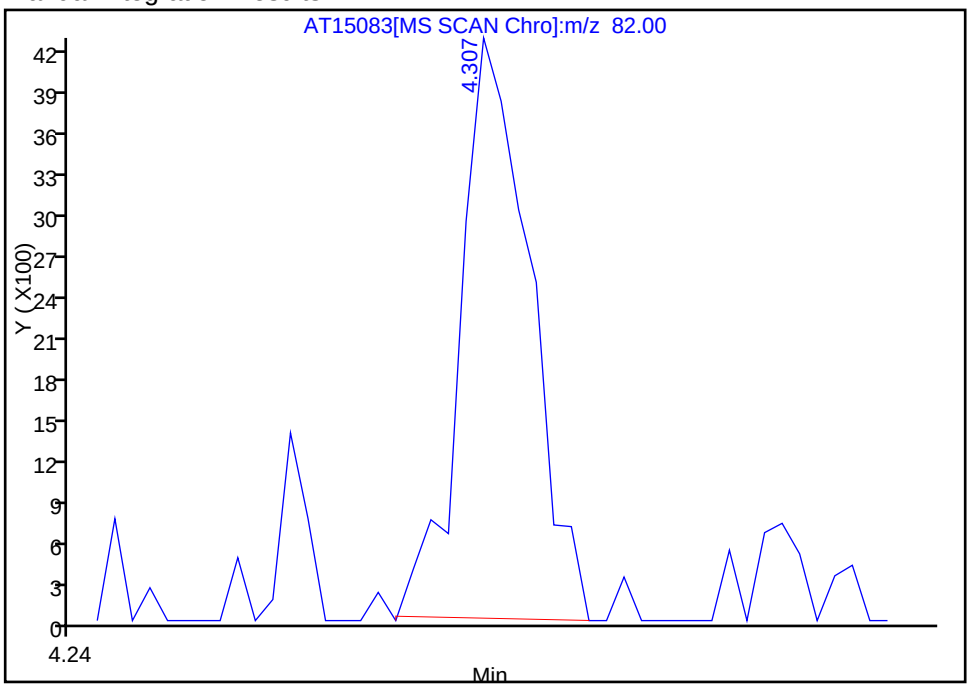
Processing Integration Results

RT: 4.30
Response: 243
Amount: 28.420102



Manual Integration Results

RT: 4.31
Response: 3298
Amount: 29.128152



Reviewer: phama, 11-May-2010 18:20:15
Audit Action: Manually Integrated
Audit Reason: Assign Peak

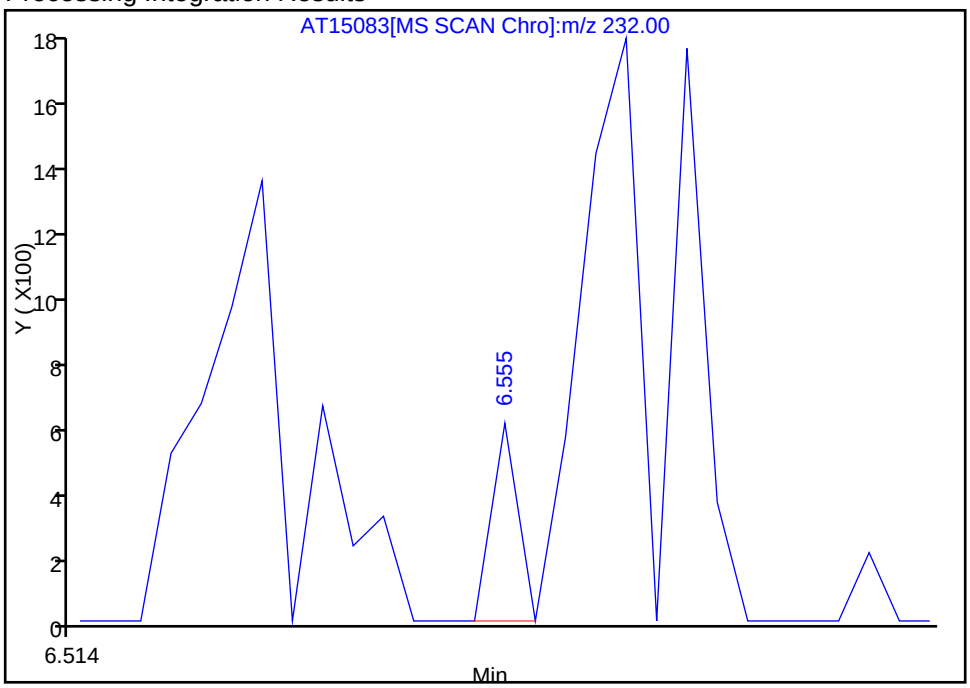
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D		
Inj Date:	11-May-2010 15:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	5
Client ID:		Instrument:	TAC002
Sample Info:	ic std 20 ppb		
Sample Amount:	1.00 ul	Operator:	ap

71 2,3,5,6-Tetrachlorophenol, Number: 1, m/z: 232 Type: quant, RT: 6.53

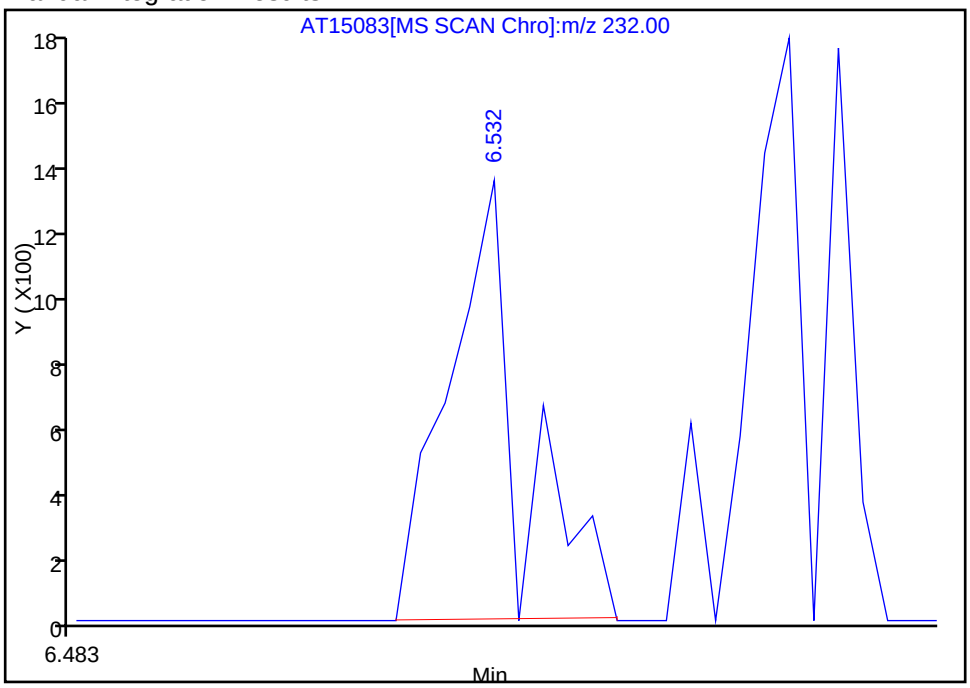
Processing Integration Results

RT: 6.55
Response: 100
Amount: 1.428999



Manual Integration Results

RT: 6.53
Response: 767
Amount: 29.906149



Reviewer: phama, 11-May-2010 18:20:15
Audit Action: Manually Integrated
Audit Reason: Wrong peak

Chrom Revision: 1.1 20-Apr-2010 06:13:18

Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D		
Inj Date:	11-May-2010 15:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	5
Client ID:		Instrument:	TAC002
Sample Info:	ic std 20 ppb		
Sample Amount:	1.00 ul	Operator:	ap

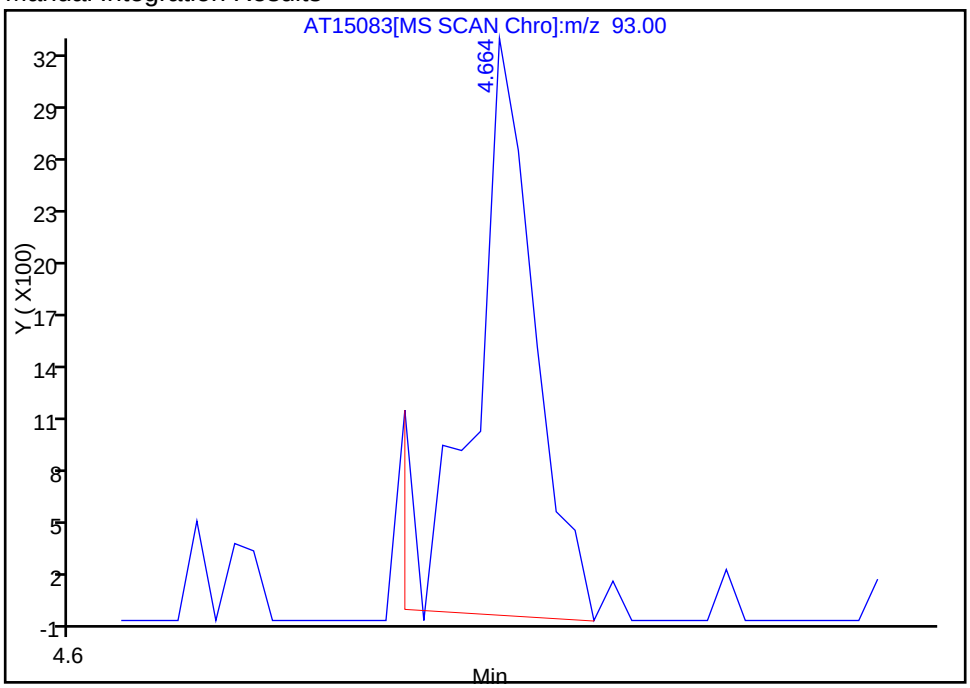
45 Bis(2-chloroethoxy)methane, Number: 1, m/z: 93 Type: quant, RT: 4.66

Processing Integration Results

Not Detected
Expected RT: 4.66

Manual Integration Results

RT: 4.66
Response: 2009
Amount: 15.619193



Reviewer: phama, 11-May-2010 18:20:15
Audit Action: Manually Integrated
Audit Reason: Assign Peak

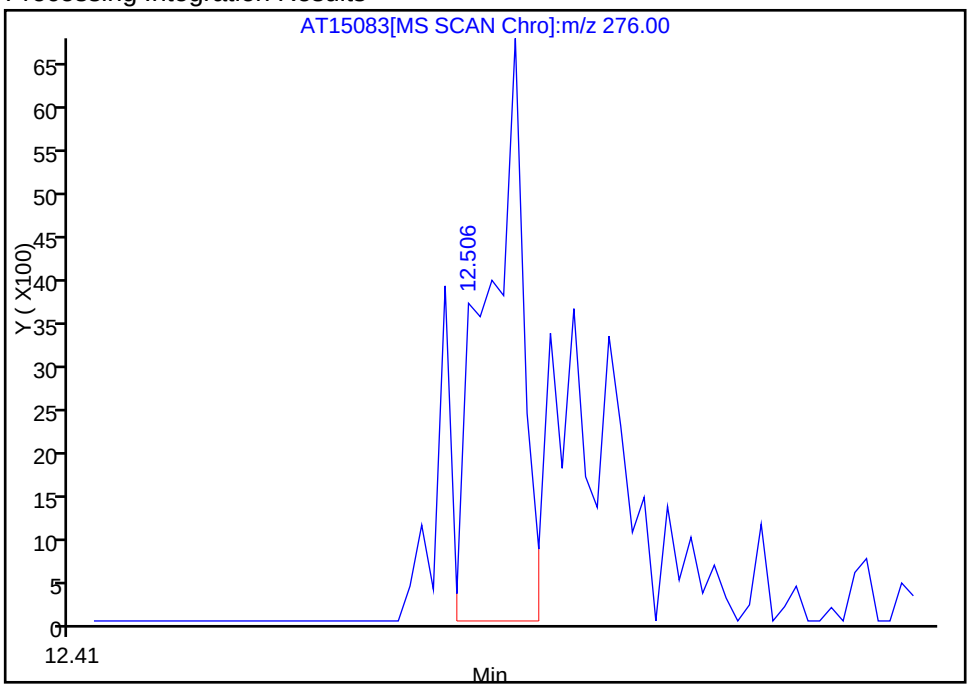
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D		
Inj Date:	11-May-2010 15:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	5
Client ID:		Instrument:	TAC002
Sample Info:	ic std 20 ppb		
Sample Amount:	1.00 ul	Operator:	ap

107 Indeno[1,2,3-cd]pyrene, Number: 1, m/z: 276 Type: quant, RT: 12.52

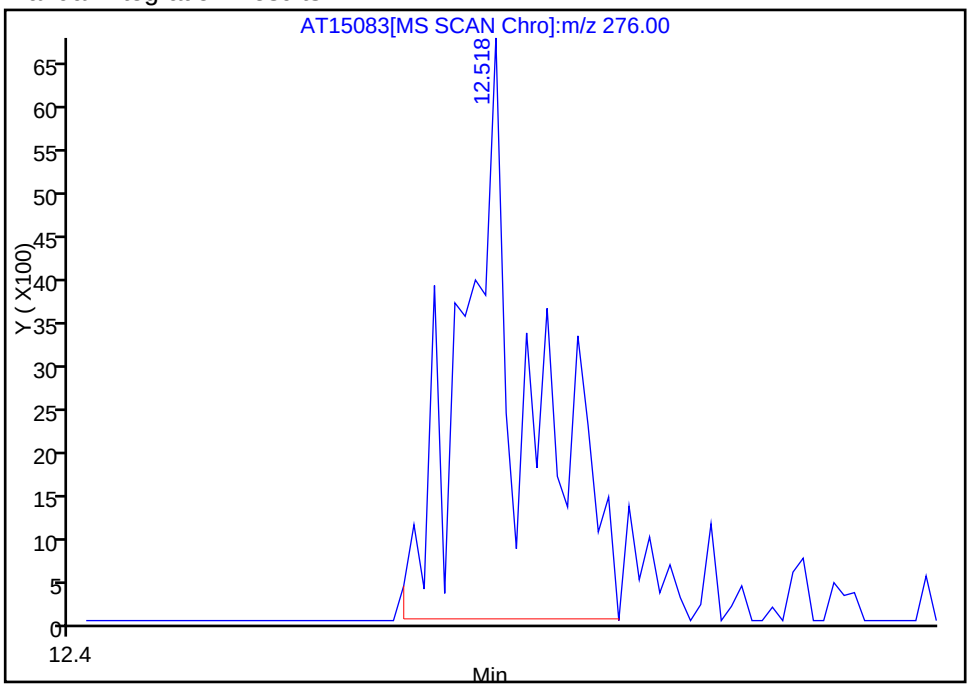
Processing Integration Results

RT: 12.51
Response: 4182
Amount: 23.144153



Manual Integration Results

RT: 12.52
Response: 8499
Amount: 18.657321



Reviewer: phama, 11-May-2010 18:50:53
Audit Action: Manually Integrated
Audit Reason: Other

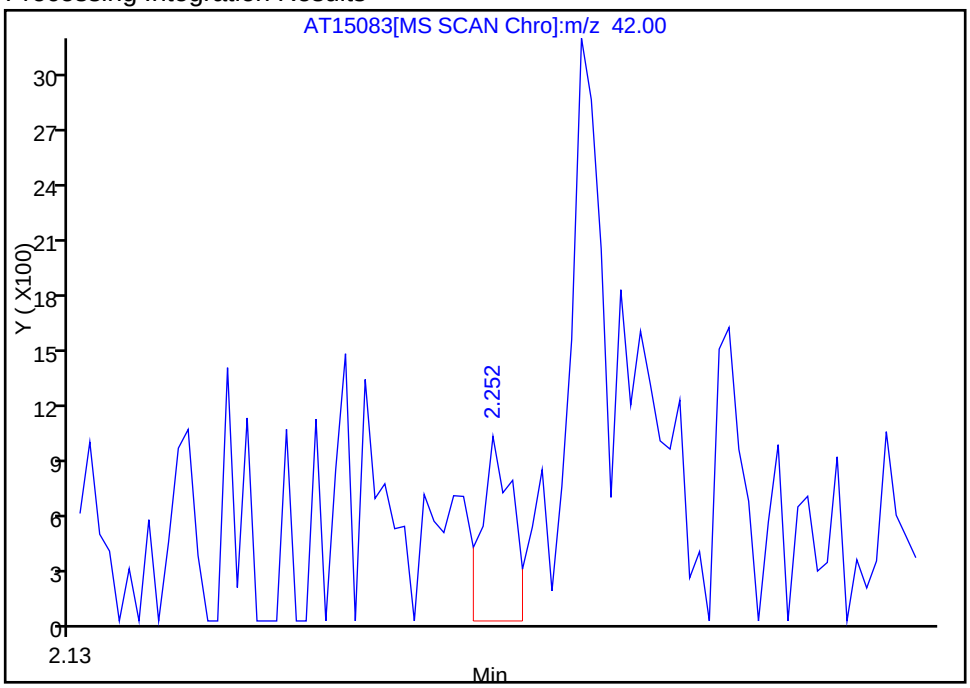
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D		
Inj Date:	11-May-2010 15:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	5
Client ID:		Instrument:	TAC002
Sample Info:	ic std 20 ppb		
Sample Amount:	1.00 ul	Operator:	ap

23 N-Nitrosodimethylamine, Number: 1, m/z: 42 Type: quant, RT: 2.25

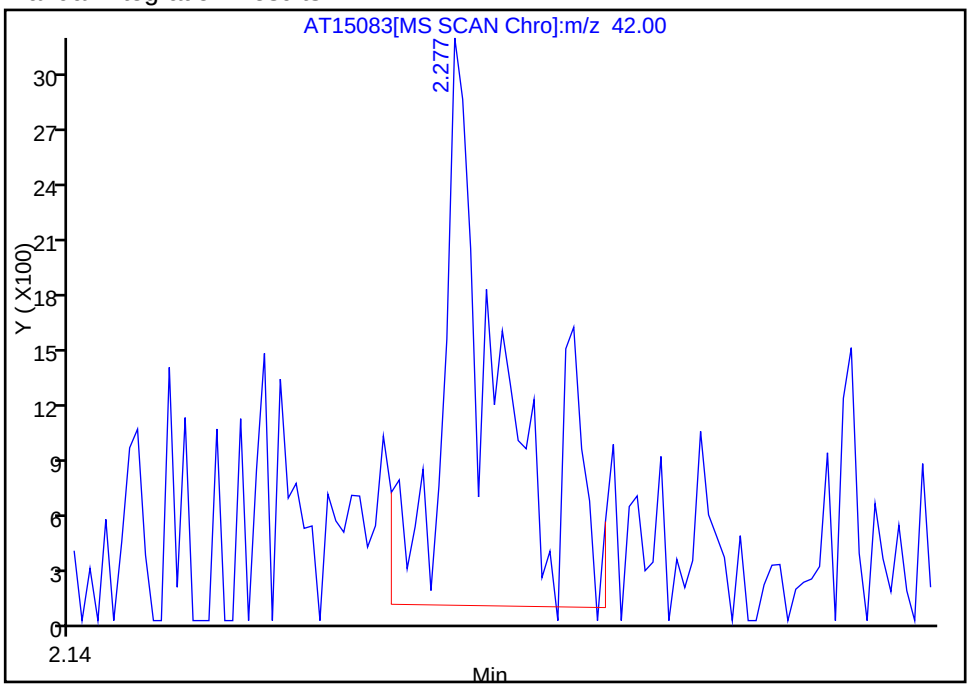
Processing Integration Results

RT: 2.25
Response: 567
Amount: 381.5040



Manual Integration Results

RT: 2.28
Response: 4472
Amount: 196.2524



Reviewer: phama, 11-May-2010 18:20:15
Audit Action: Manually Integrated
Audit Reason: Wrong peak

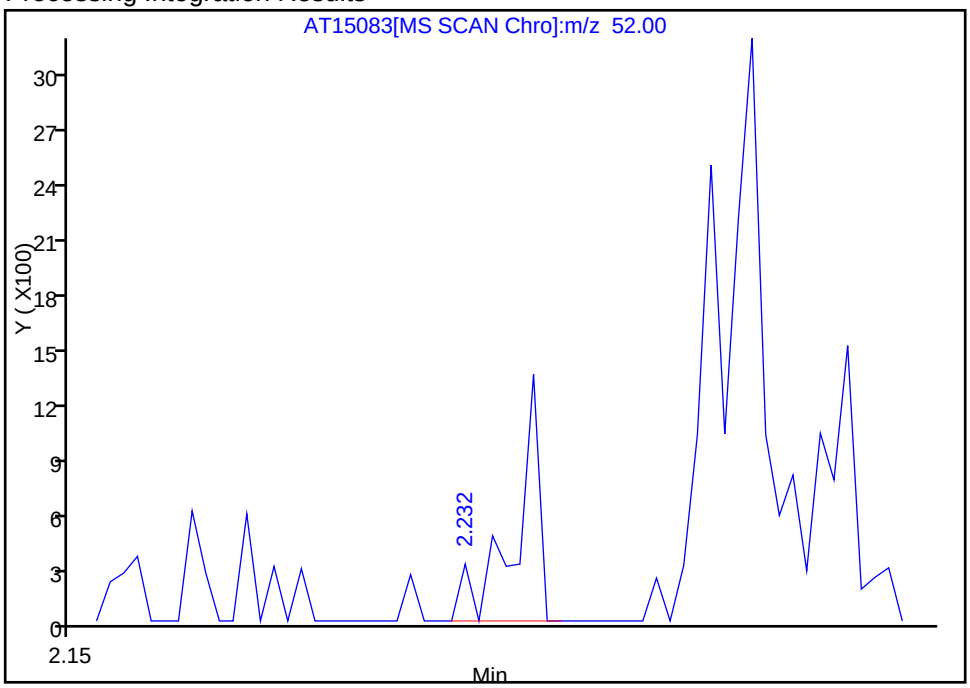
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D		
Inj Date:	11-May-2010 15:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	5
Client ID:		Instrument:	TAC002
Sample Info:	ic std 20 ppb		
Sample Amount:	1.00 ul	Operator:	ap

22 Pyridine, Number: 1, m/z: 52 Type: quant, RT: 2.25

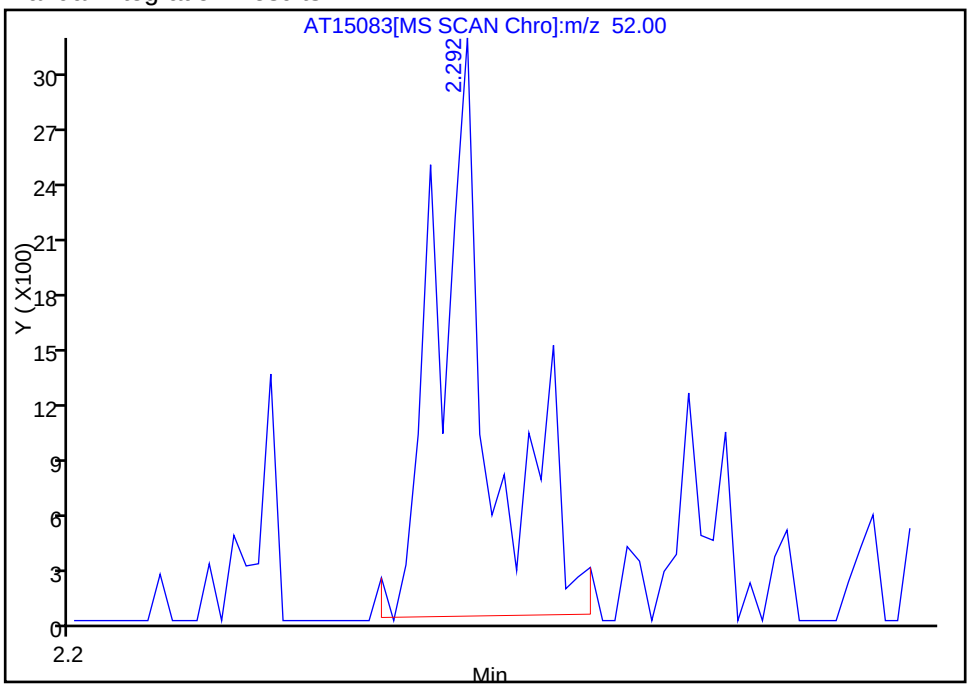
Processing Integration Results

RT: 2.23
Response: 462
Amount: 400.1656



Manual Integration Results

RT: 2.29
Response: 2780
Amount: 170.8181



Reviewer: phama, 11-May-2010 18:20:15
Audit Action: Manually Integrated
Audit Reason: Wrong peak

Chrom Revision: 1.1 20-Apr-2010 06:13:18

Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D		
Inj Date:	11-May-2010 15:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	5
Client ID:		Instrument:	TAC002
Sample Info:	ic std 20 ppb		
Sample Amount:	1.00 ul	Operator:	ap

81 4-Bromophenyl phenyl ether, Number: 1, m/z: 248 Type: quant, RT: 7.15

Processing Integration Results

Not Detected

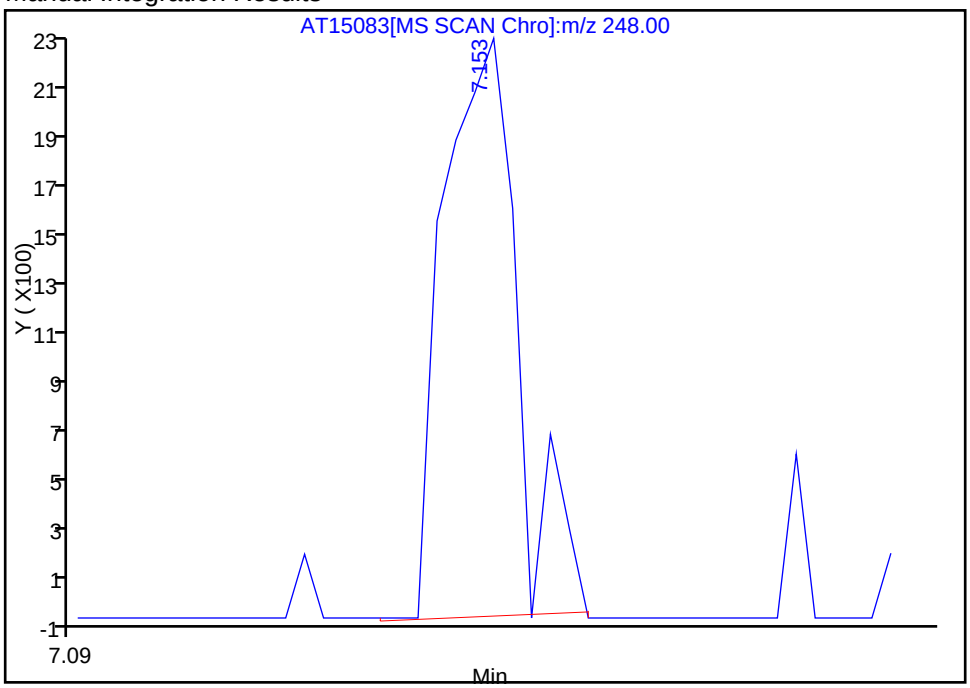
Expected RT: 7.15

Manual Integration Results

RT: 7.15

Response: 1780

Amount: 60.928630



Reviewer: phama, 11-May-2010 18:20:15

Audit Action: Manually Integrated

Audit Reason: Assign Peak

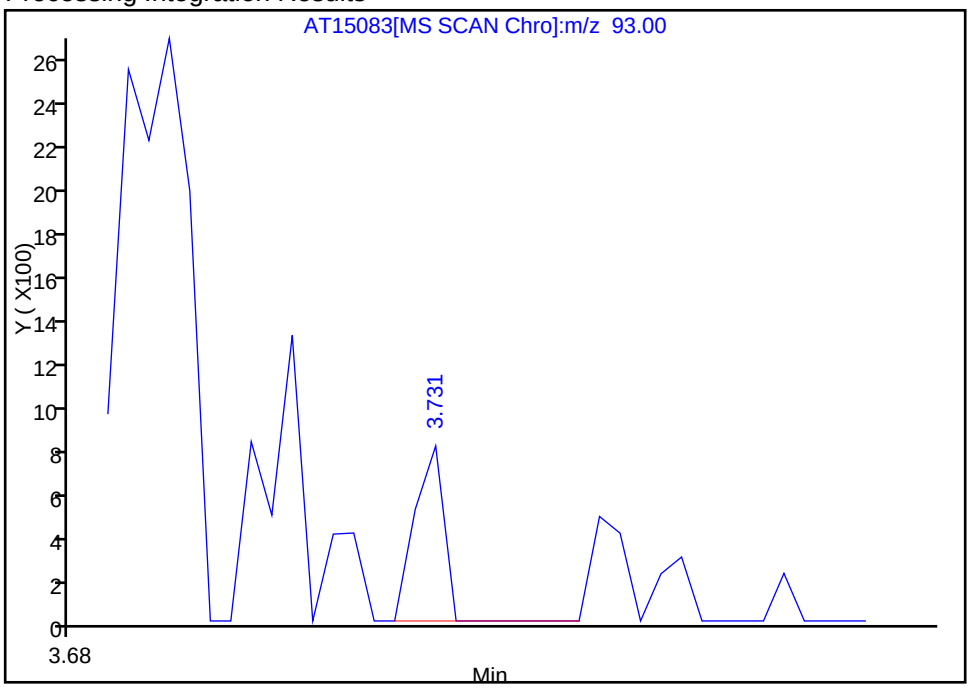
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D		
Inj Date:	11-May-2010 15:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	5
Client ID:		Instrument:	TAC002
Sample Info:	ic std 20 ppb		
Sample Amount:	1.00 ul	Operator:	ap

27 Bis(2-chloroethyl)ether, Number: 1, m/z: 93 Type: quant, RT: 3.69

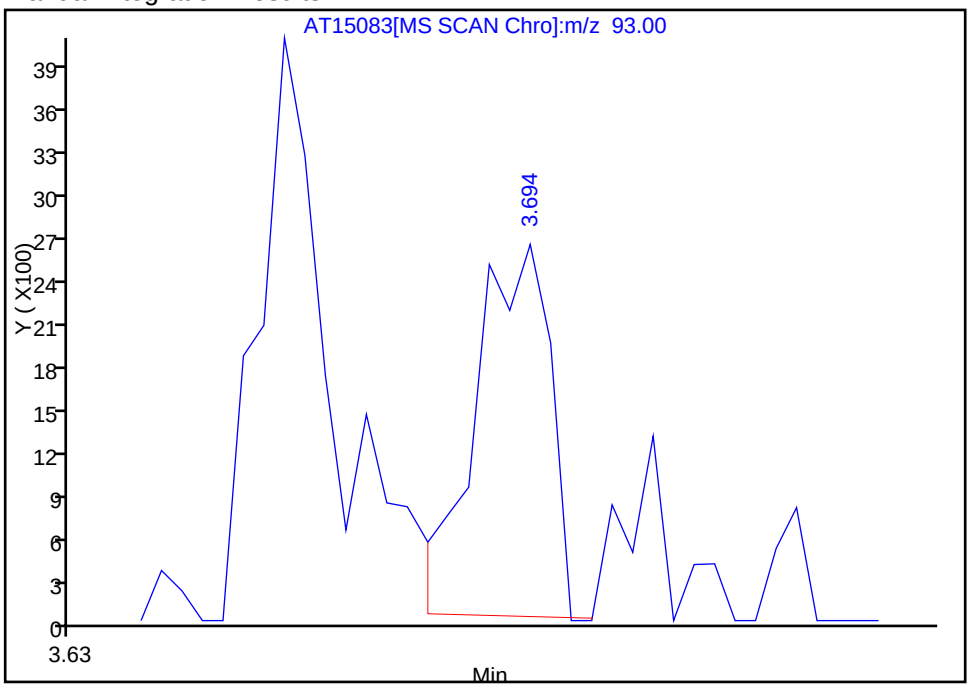
Processing Integration Results

RT: 3.73
Response: 221
Amount: 1.584214



Manual Integration Results

RT: 3.69
Response: 1868
Amount: 25.938137



Reviewer: phama, 11-May-2010 18:20:15
Audit Action: Manually Integrated
Audit Reason: Wrong peak

Chrom Revision: 1.1 20-Apr-2010 06:13:18

Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15083.D		
Inj Date:	11-May-2010 15:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	5
Client ID:		Instrument:	TAC002
Sample Info:	ic std 20 ppb		
Sample Amount:	1.00 ul	Operator:	ap

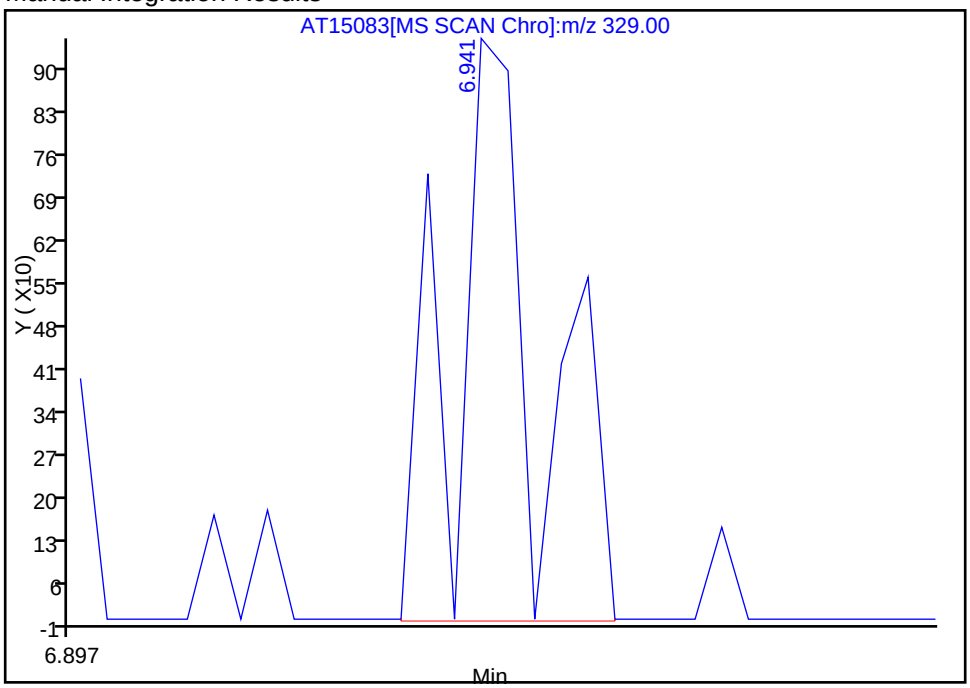
$ 11 2,4,6-Tribromophenol, Number: 1, m/z: 329 Type: quant, RT: 6.94

Processing Integration Results

Not Detected
Expected RT: 6.94

Manual Integration Results

RT: 6.94
Response: 608
Amount: 10.662769



Reviewer: phama, 11-May-2010 18:20:15
Audit Action: Manually Integrated
Audit Reason: Assign Peak

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15084.D		
Lims ID:	ic std 50 ppb	Client ID:	
Inject. Date:	11-May-2010 15:56:30	Dil. Factor:	1.0000
Sample Type:	IC, ICal Standard	Calib Level:	2
Sample ID:	ic std 50 ppb		
Misc. Info.:	580-0008740-006		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	4
Lims Batch ID:	63269	Lims Sample ID:	6
Sublist:	chrom-8270C TAC002*sub8		
Detector:	MS SCAN		
Method:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\8270C TAC002.m		
Last Update:	26-May-2010 16:12:56	Calib Date:	11-May-2010 17:36:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15089.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		
Reviewed By:	phama	Date:	11-May-2010 16:38:57
Reviewed By:	phama	Date:	11-May-2010 18:23:35
Reviewed By:	phama	Date:	19-May-2010 09:59:52
Reviewed By:	phama	Date:	26-May-2010 16:12:18
Reviewed By:	phama	Date:	26-May-2010 16:12:56

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.895	3.893	0.002	77015	994.5	
* 2 Naphthalene-d8	136	4.874	4.875	-0.001	334762	997.0	
* 3 Acenaphthene-d10	164	6.299	6.299	0.000	188844	968.0	
* 4 Phenanthrene-d10	188	7.523	7.520	0.003	308447	984.5	
* 5 Chrysene-d12	240	9.742	9.742	0.000	294182	974.0	
* 6 Perylene-d12	264	11.235	11.235	0.000	238656	983.0	
$ 7 2-Fluorophenol	112	2.984	2.976	0.008	3737	38.3	
$ 8 Phenol-d5	99	3.589	3.589	0.000	4960	39.2	
$ 9 Nitrobenzene-d5	82	4.301	4.307	-0.006	5229	50.8	
$ 10 2-Fluorobiphenyl	172	5.740	5.740	0.000	11770	43.7	
$ 11 2,4,6-Tribromophenol	329	6.944	6.944	0.000	2093	39.3	
$ 12 Terphenyl-d14	244	8.828	8.828	0.000	14474	48.7	
22 Pyridine	52	2.286	2.249	0.037	8403	302.7	
23 N-Nitrosodimethylamine	42	2.278	2.249	0.029	6281	326.3	
24 Cyclohexanone	55	3.189	3.183	0.006	3083	52.2	
25 Phenol	94	3.606	3.597	0.009	5625	47.9	
26 Aniline	93	3.660	3.654	0.006	6705	54.1	
27 Bis(2-chloroethyl)ether	93	3.694	3.688	0.006	3952	46.6	
28 2-Chlorophenol	128	3.742	3.739	0.003	5175	49.2	
29 n-Decane	57	3.759	3.753	0.006	4571	52.9	
30 1,3-Dichlorobenzene	146	3.856	3.853	0.003	6247	53.3	
31 1,4-Dichlorobenzene	146	3.907	3.904	0.003	6330	50.8	
32 Benzyl alcohol	108	3.986	3.983	0.003	2749	48.5	
33 1,2-Dichlorobenzene	146	4.017	4.020	-0.003	6245	52.5	
34 2-Methylphenol	108	4.046	4.051	-0.005	4710	48.5	M
35 2,2'-oxybis[1-chloropropane]	45	4.083	4.080	0.003	4765	49.9	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
36 3 & 4 Methylphenol	108	4.165	4.162	0.003	5071	52.1	
38 N-Nitrosodi-n-propylamine	70	4.179	4.182	-0.003	3249	51.6	M
37 Acetophenone	105	4.190	4.191	-0.001	6475	48.8	
39 Hexachloroethane	117	4.273	4.279	-0.006	2431	55.7	
40 Nitrobenzene	77	4.324	4.321	0.003	5152	52.8	
41 Isophorone	82	4.503	4.503	0.000	9839	51.6	
42 2-Nitrophenol	139	4.565	4.568	-0.003	2372	47.8	
43 2,4-Dimethylphenol	107	4.585	4.582	0.003	4608	52.3	
44 Benzoic acid	105	4.662	4.636	0.026	193	527.1	
45 Bis(2-chloroethoxy)methane	93	4.664	4.665	-0.001	6097	52.1	
46 2,4-Dichlorophenol	162	4.750	4.750	0.000	3782	41.6	
47 1,2,4-Trichlorobenzene	180	4.818	4.823	-0.005	5836	53.4	
48 Naphthalene	128	4.892	4.892	0.000	17635	49.9	
49 4-Chloroaniline	127	4.926	4.923	0.003	7251	56.1	
50 Hexachlorobutadiene	225	4.991	4.985	0.006	928	22.4	
51 4-Chloro-3-methylphenol	107	5.297	5.297	0.000	3592	47.7	
52 2-Methylnaphthalene	142	5.442	5.445	-0.003	10049	45.8	
53 1-Methylnaphthalene	142	5.527	5.527	0.000	12663	54.1	
54 Hexachlorocyclopentadiene	237	5.567	5.573	-0.006	1531	37.8	
55 2,4,6-Trichlorophenol	196	5.666	5.666	0.000	3144	51.3	
56 2,3-Dichlorobenzenamine	161	5.675	5.672	0.003	4412	38.6	
57 2,4,5-Trichlorophenol	196	5.695	5.695	0.000	4268	59.8	
58 1,1'-Biphenyl	154	5.822	5.823	-0.001	13423	48.5	
59 2-Chloronaphthalene	162	5.842	5.842	0.000	10495	47.5	
60 2-Nitroaniline	65	5.913	5.919	-0.006	1774	53.7	
62 Dimethyl phthalate	163	6.064	6.064	0.000	11067	50.3	
63 2,6-Dinitrotoluene	165	6.118	6.112	0.006	2597	51.9	M
64 Acenaphthylene	152	6.183	6.186	-0.003	16884	50.5	
65 3-Nitroaniline	138	6.254	6.251	0.003	2056	44.8	
66 Acenaphthene	153	6.325	6.325	0.000	10906	48.3	
67 2,4-Dinitrophenol	184	6.325	6.336	-0.011	731	322.3	
68 4-Nitrophenol	109	6.370	6.373	-0.003	1522	294.4	
69 2,4-Dinitrotoluene	165	6.438	6.444	-0.006	2413	49.5	
70 Dibenzofuran	168	6.467	6.467	0.000	14289	46.7	
71 2,3,5,6-Tetrachlorophenol	232	6.529	6.526	0.003	1762	46.2	
72 2,3,4,6-Tetrachlorophenol	232	6.563	6.560	0.003	2167	37.1	
73 Diethyl phthalate	149	6.643	6.643	0.000	9700	44.6	
76 4-Chlorophenyl phenyl ether	204	6.745	6.745	0.000	5579	49.3	M
75 Fluorene	166	6.751	6.751	0.000	10978	43.9	M
77 4-Nitroaniline	138	6.748	6.756	-0.008	2200	-38.1	7
78 4,6-Dinitro-2-methylphenol	198	6.773	6.776	-0.003	3626	220.2	
79 N-Nitrosodiphenylamine	169	6.839	6.839	0.000	10285	54.8	
80 Azobenzene	77	6.873	6.873	0.000	8069	45.7	
81 4-Bromophenyl phenyl ether	248	7.148	7.148	0.000	3461	83.3	
82 Hexachlorobenzene	284	7.199	7.199	0.000	4075	50.6	
83 Pentachlorophenol	266	7.366	7.358	0.008	636	89.8	M
84 n-Octadecane	43	7.412	7.415	-0.003	2898	57.8	
86 Phenanthrene	178	7.542	7.543	0.000	19009	57.2	
87 Anthracene	178	7.585	7.582	0.003	16367	50.8	
89 Carbazole	167	7.710	7.707	0.003	12315	44.4	
90 Di-n-butyl phthalate	149	7.988	7.988	0.000	20445	53.0	
95 Fluoranthene	202	8.522	8.522	0.000	18041	51.9	

Report Date: 26-May-2010 16:12:57 Chrom Revision: 1.1 20-Apr-2010 06:13:18
Data File: \\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15084.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
94 Benzidine	184	8.624	8.624	0.000	7044	-102.9	7
93 Pyrene	202	8.709	8.709	0.000	19543	49.1	
97 Butyl benzyl phthalate	149	9.223	9.223	0.000	7139	51.9	
98 3,3'-Dichlorobenzidine	252	9.700	9.700	0.000	7779	84.5	
99 Benzo[a]anthracene	228	9.728	9.731	-0.003	16958	52.0	
101 Bis(2-ethylhexyl) phthalate	149	9.734	9.731	0.003	11874	56.8	
100 Chrysene	228	9.770	9.765	0.005	18550	53.8	M
102 Di-n-octyl phthalate	149	10.412	10.412	0.000	11499	44.3	
103 Benzo[b]fluoranthene	252	10.843	10.841	0.002	16091	55.3	
105 Benzofluoranthene	252	10.843	10.869	-0.026	32774	108.9	M
104 Benzo[k]fluoranthene	252	10.872	10.869	0.003	15769	51.3	M
106 Benzo[a]pyrene	252	11.170	11.175	-0.005	13295	46.0	
107 Indeno[1,2,3-cd]pyrene	276	12.515	12.518	-0.003	13126	38.7	M
108 Dibenz(a,h)anthracene	278	12.538	12.529	0.009	11799	42.1	M
109 Benzo[g,h,i]perylene	276	12.873	12.878	-0.005	11260	39.2	M

QC Flag Legend

Processing Flags
7 - Failed Limit of Detection

Review Flags
M - Manually Integrated

Report Date: 26-May-2010 16:12:57 Chrom Revision: 1.1 20-Apr-2010 06:13:18

Data File: \\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15084.D

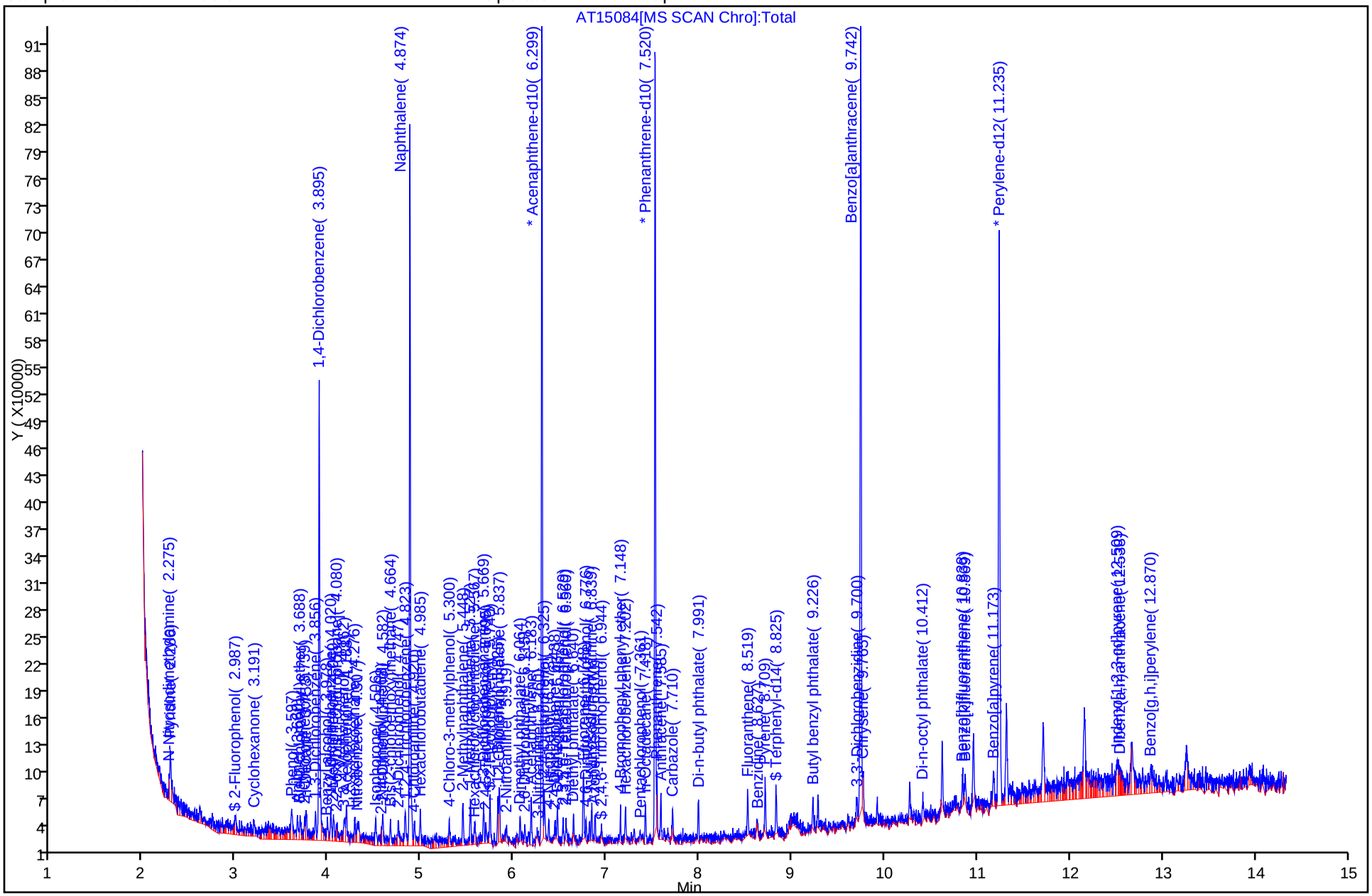
Inj Date: 11-May-2010 15:56:30 Limit Group: 8270C Standard

Lims Batch ID: 63269 Lims Sample ID: 6

Client ID: Instrument: TAC002

Sample Info: ic std 50 ppb

Sample Amount: 1.00 ul Operator: ap



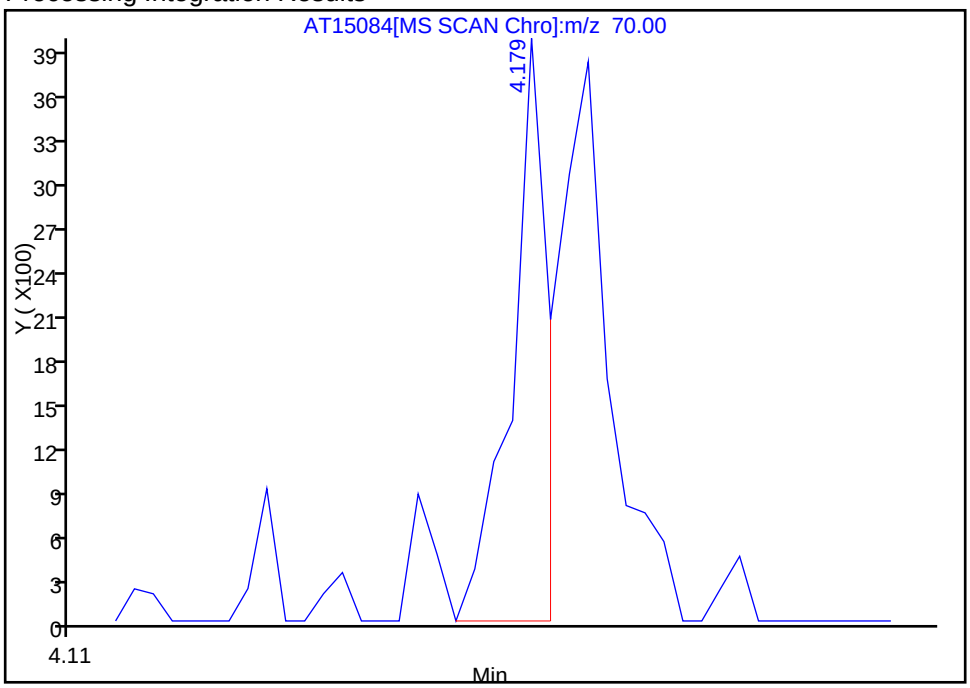
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15084.D		
Inj Date:	11-May-2010 15:56:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	6
Client ID:		Instrument:	TAC002
Sample Info:	ic std 50 ppb		
Sample Amount:	1.00 ul	Operator:	ap

38 N-Nitrosodi-n-propylamine, Number: 1, m/z: 70 Type: quant, RT: 4.18

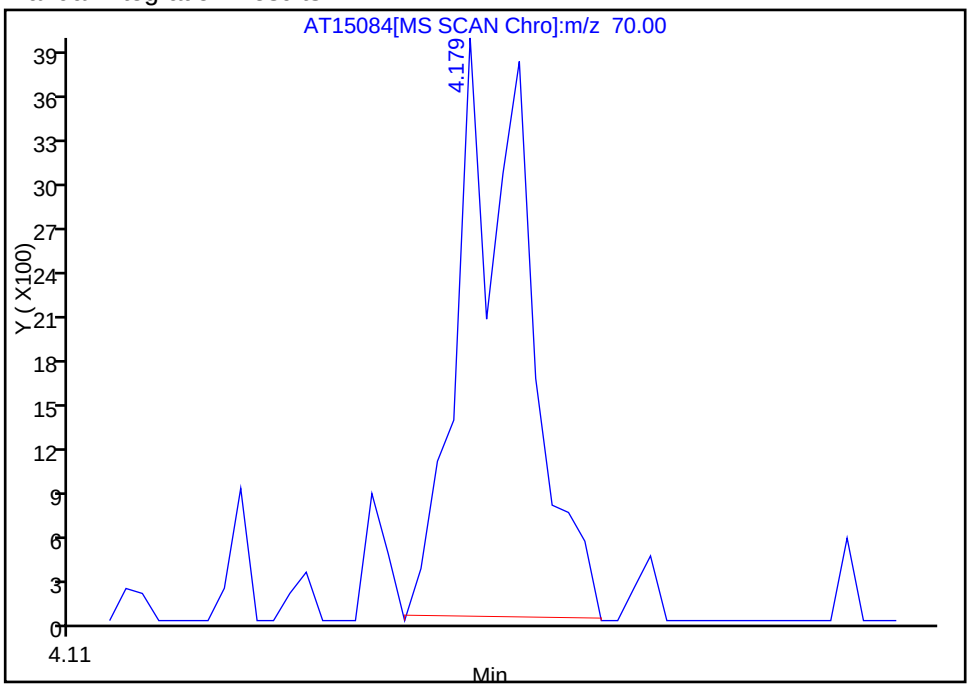
Processing Integration Results

RT: 4.18
Response: 1330
Amount: 16.988059



Manual Integration Results

RT: 4.18
Response: 3249
Amount: 51.609840



Reviewer: phama, 11-May-2010 18:23:35
Audit Action: Manually Integrated
Audit Reason: Other

Chrom Revision: 1.1 20-Apr-2010 06:13:18

Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15084.D		
Inj Date:	11-May-2010 15:56:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	6
Client ID:		Instrument:	TAC002
Sample Info:	ic std 50 ppb		
Sample Amount:	1.00 ul	Operator:	ap

76 4-Chlorophenyl phenyl ether, Number: 1, m/z: 204 Type: quant, RT: 6.74

Processing Integration Results

Not Detected

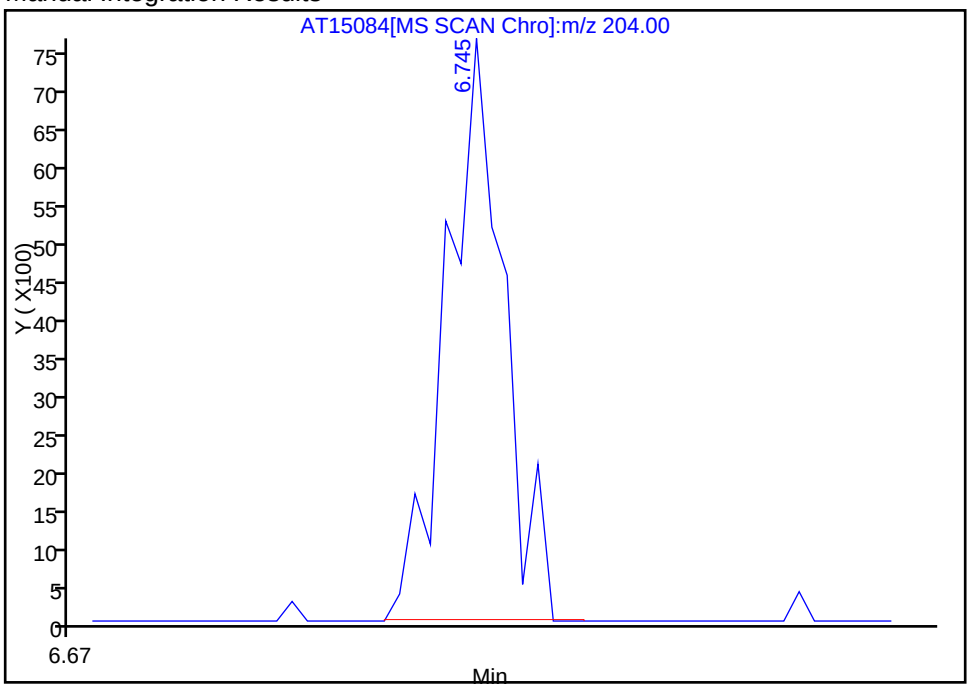
Expected RT: 6.74

Manual Integration Results

RT: 6.74

Response: 5579

Amount: 49.274419



Reviewer: phama, 11-May-2010 18:23:35

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Chrom Revision: 1.1 20-Apr-2010 06:13:18

Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15084.D		
Inj Date:	11-May-2010 15:56:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	6
Client ID:		Instrument:	TAC002
Sample Info:	ic std 50 ppb		
Sample Amount:	1.00 ul	Operator:	ap

75 Fluorene, Number: 1, m/z: 166 Type: quant, RT: 6.75

Processing Integration Results

Not Detected

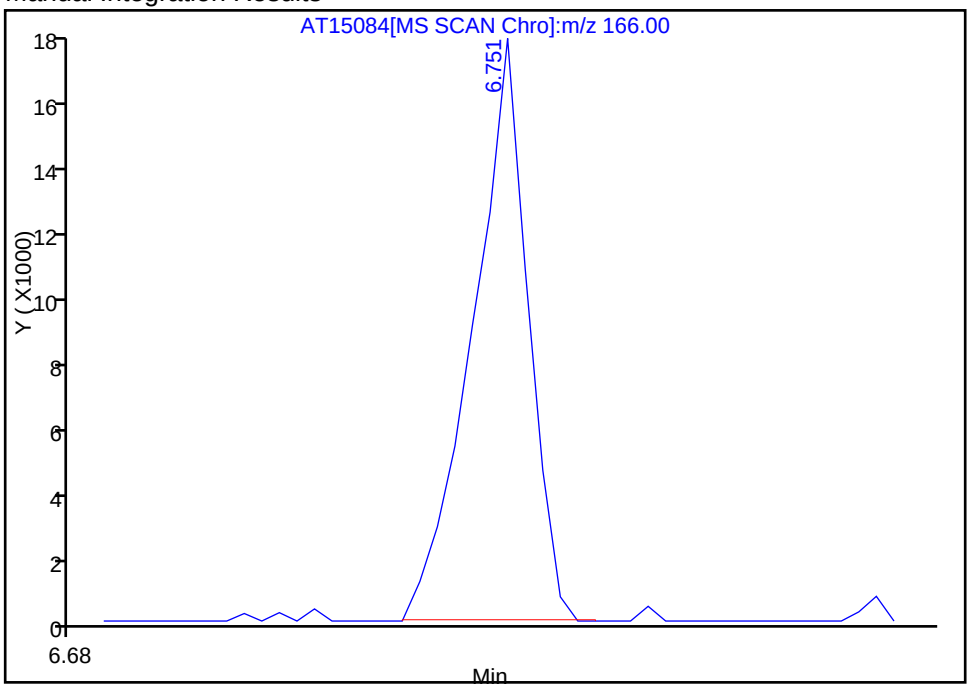
Expected RT: 6.75

Manual Integration Results

RT: 6.75

Response: 10978

Amount: 43.902785



Reviewer: phama, 11-May-2010 18:23:35

Audit Action: Manually Integrated

Audit Reason: Assign Peak

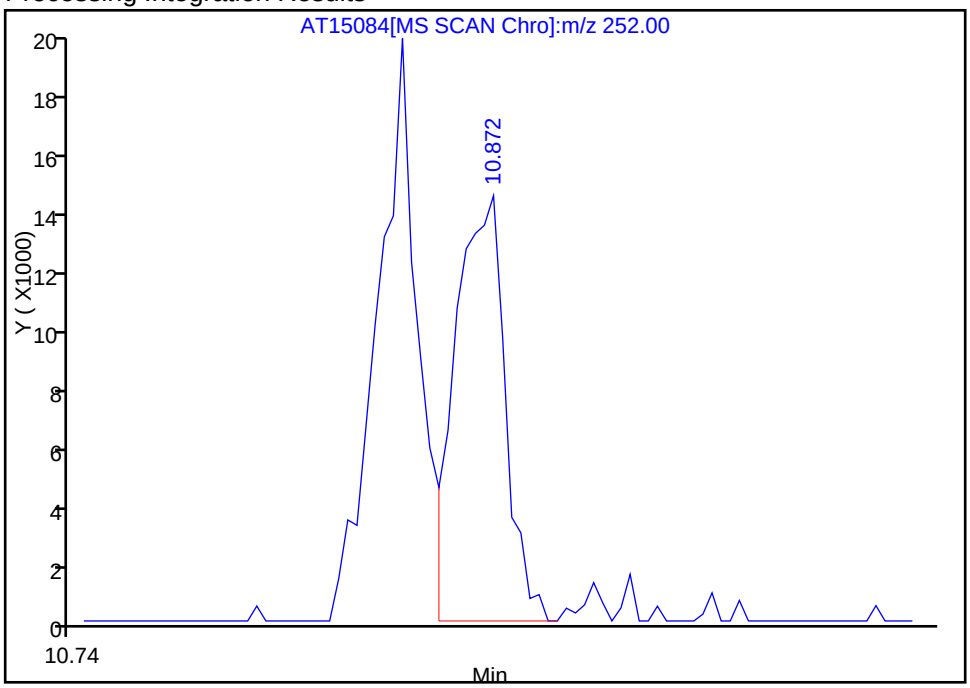
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15084.D		
Inj Date:	11-May-2010 15:56:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	6
Client ID:		Instrument:	TAC002
Sample Info:	ic std 50 ppb		
Sample Amount:	1.00 ul	Operator:	ap

105 Benzofluoranthene, Number: 1, m/z: 252 Type: quant, RT: 10.87

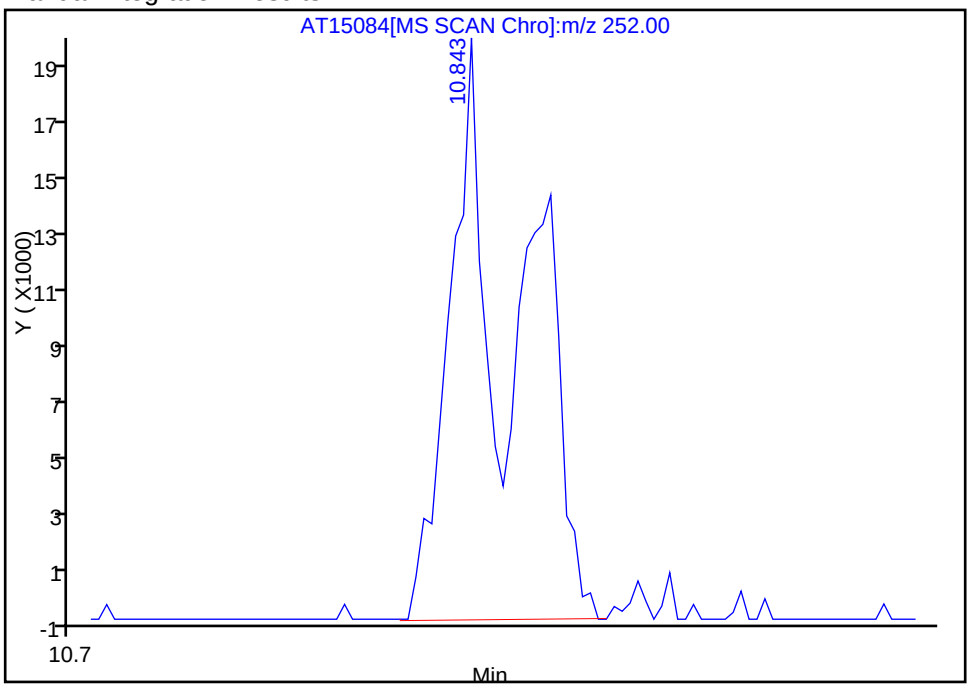
Processing Integration Results

RT: 10.87
Response: 15523
Amount: 178.8918



Manual Integration Results

RT: 10.84
Response: 32774
Amount: 108.8593



Reviewer: phama, 11-May-2010 18:23:35
Audit Action: Manually Integrated
Audit Reason: Other

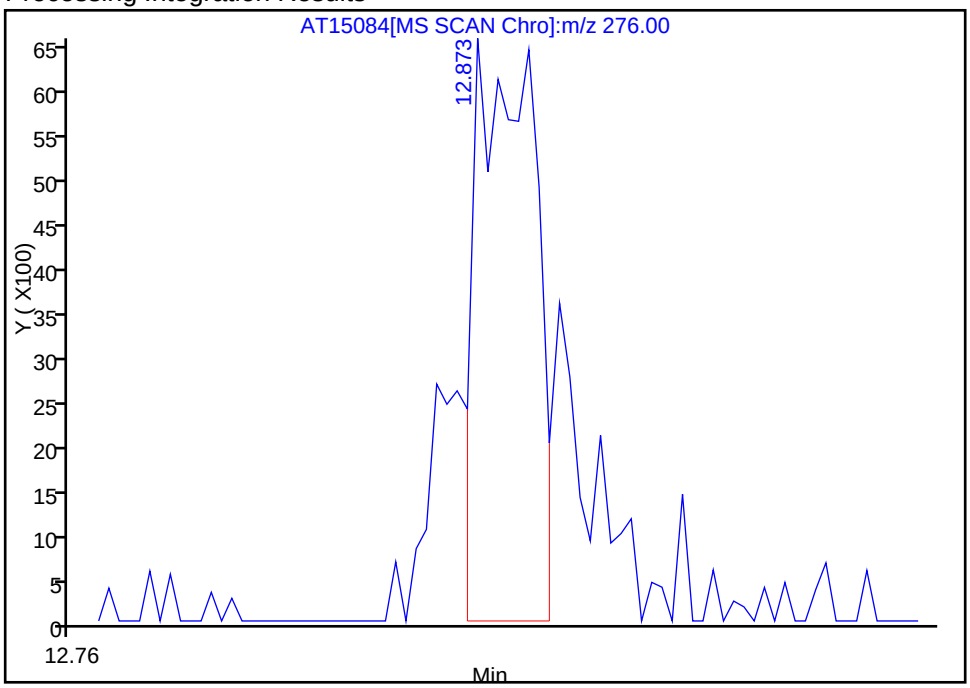
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15084.D		
Inj Date:	11-May-2010 15:56:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	6
Client ID:		Instrument:	TAC002
Sample Info:	ic std 50 ppb		
Sample Amount:	1.00 ul	Operator:	ap

109 Benzo[g,h,i]perylene, Number: 1, m/z: 276 Type: quant, RT: 12.88

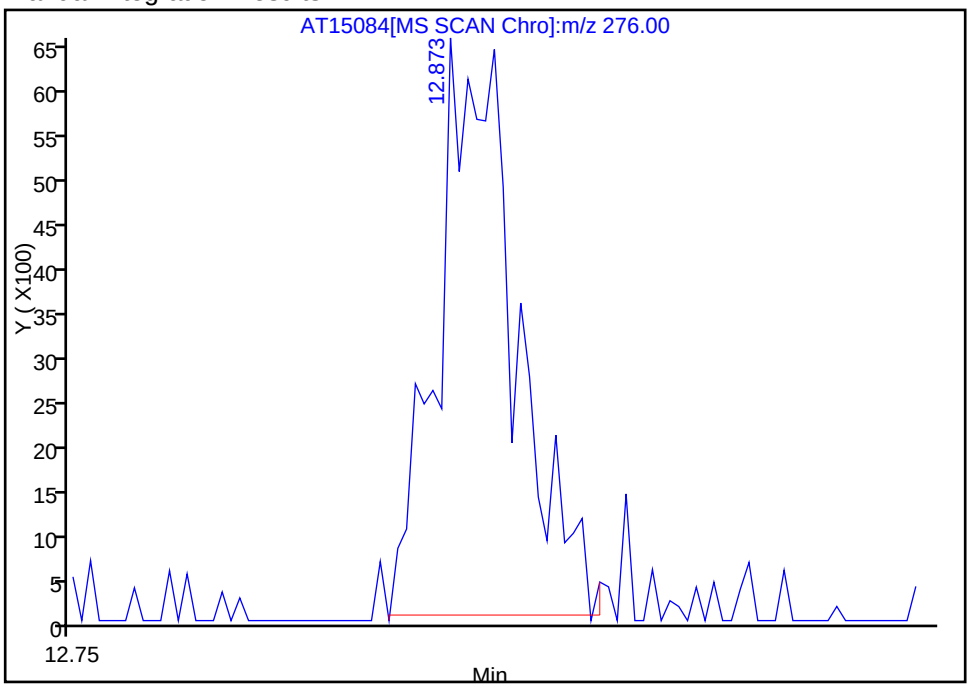
Processing Integration Results

RT: 12.87
Response: 7176
Amount: 91.918943



Manual Integration Results

RT: 12.87
Response: 11260
Amount: 39.214781



Reviewer: phama, 11-May-2010 18:23:35
Audit Action: Manually Integrated
Audit Reason: Other

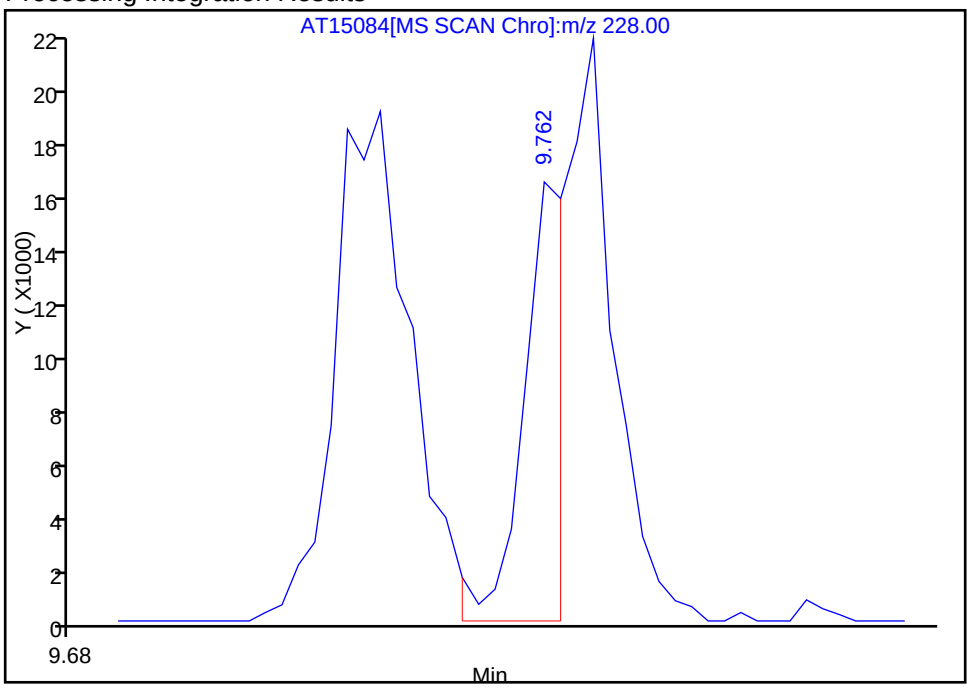
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15084.D		
Inj Date:	11-May-2010 15:56:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	6
Client ID:		Instrument:	TAC002
Sample Info:	ic std 50 ppb		
Sample Amount:	1.00 ul	Operator:	ap

100 Chrysene, Number: 1, m/z: 228 Type: quant, RT: 9.76

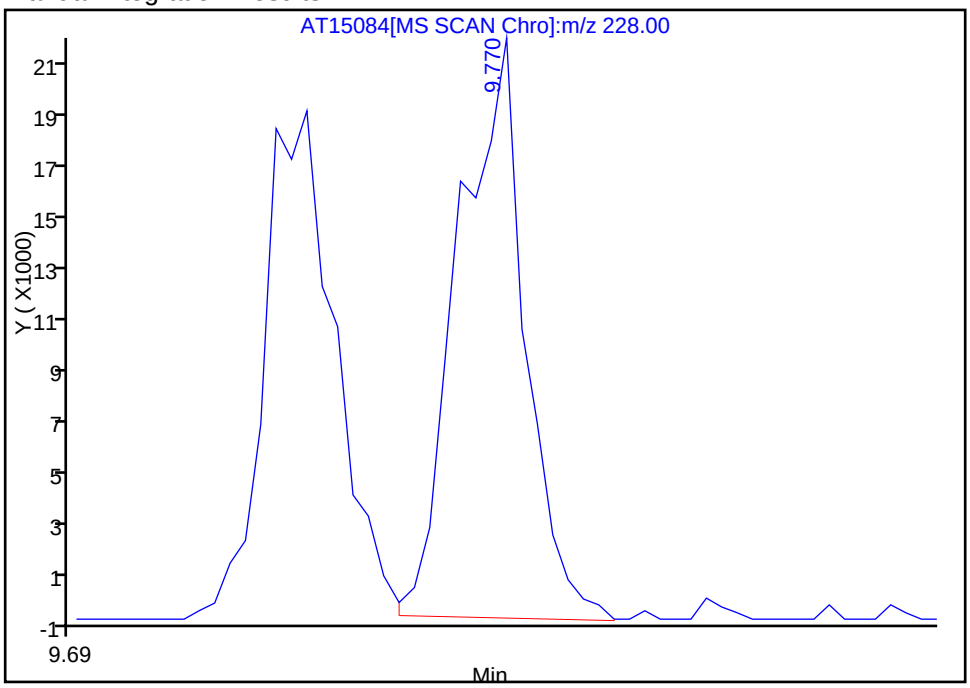
Processing Integration Results

RT: 9.76
Response: 6761
Amount: 69.731668



Manual Integration Results

RT: 9.77
Response: 18550
Amount: 53.828993



Reviewer: phama, 11-May-2010 18:23:35
Audit Action: Manually Integrated
Audit Reason: Other

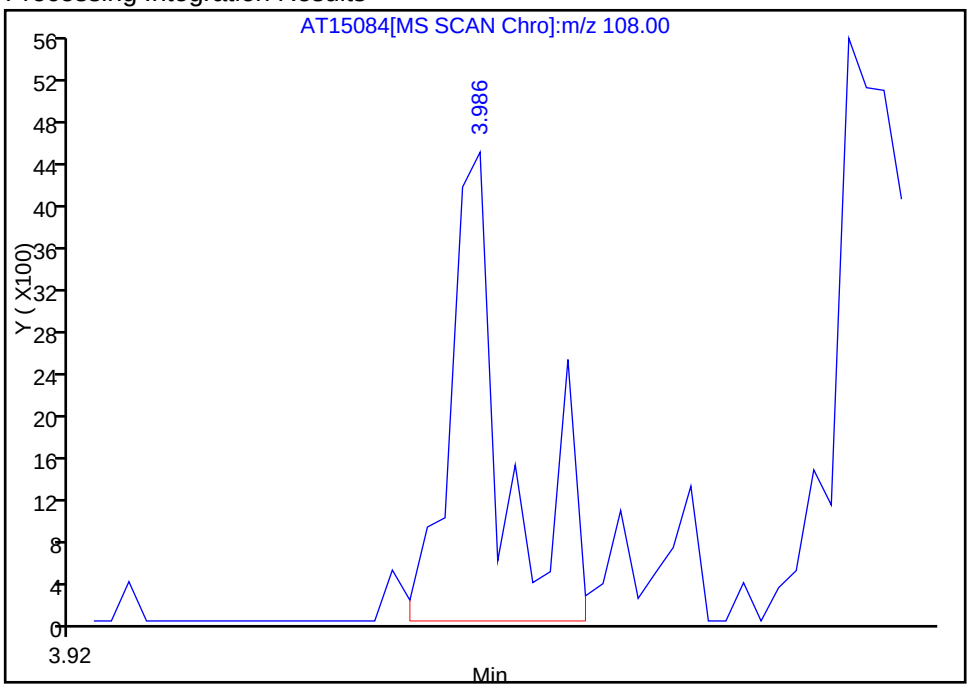
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15084.D		
Inj Date:	11-May-2010 15:56:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	6
Client ID:		Instrument:	TAC002
Sample Info:	ic std 50 ppb		
Sample Amount:	1.00 ul	Operator:	ap

34 2-Methylphenol, Number: 1, m/z: 108 Type: quant, RT: 4.05

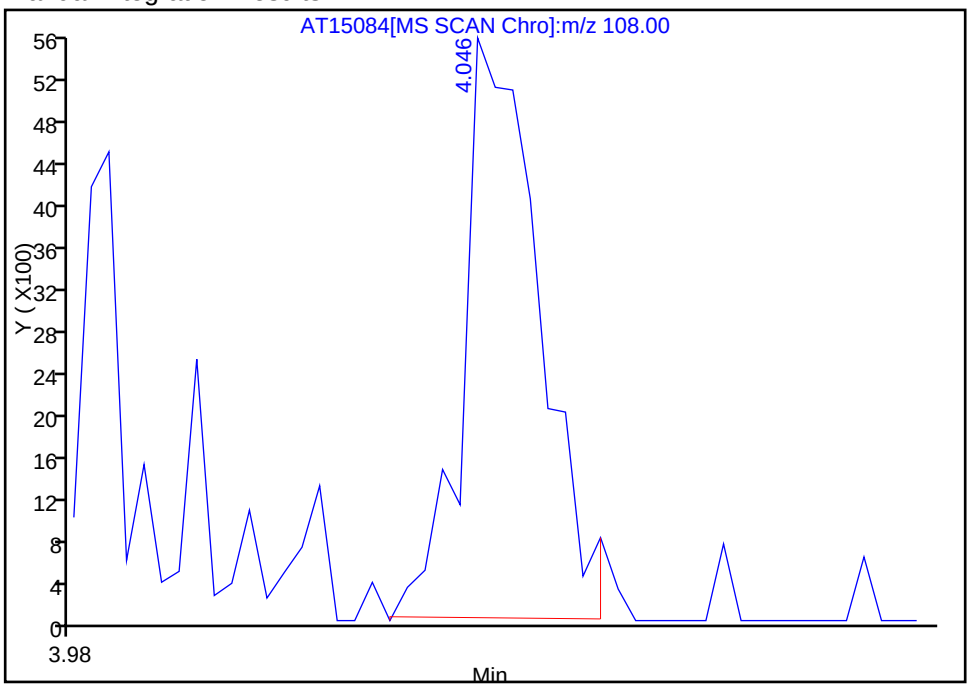
Processing Integration Results

RT: 3.99
Response: 2749
Amount: 74.696925



Manual Integration Results

RT: 4.05
Response: 4710
Amount: 48.473738



Reviewer: phama, 11-May-2010 18:23:35
Audit Action: Manually Integrated
Audit Reason: Wrong peak

Chrom Revision: 1.1 20-Apr-2010 06:13:18

Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15084.D		
Inj Date:	11-May-2010 15:56:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	6
Client ID:		Instrument:	TAC002
Sample Info:	ic std 50 ppb		
Sample Amount:	1.00 ul	Operator:	ap

83 Pentachlorophenol, Number: 1, m/z: 266 Type: quant, RT: 7.36

Processing Integration Results

Not Detected

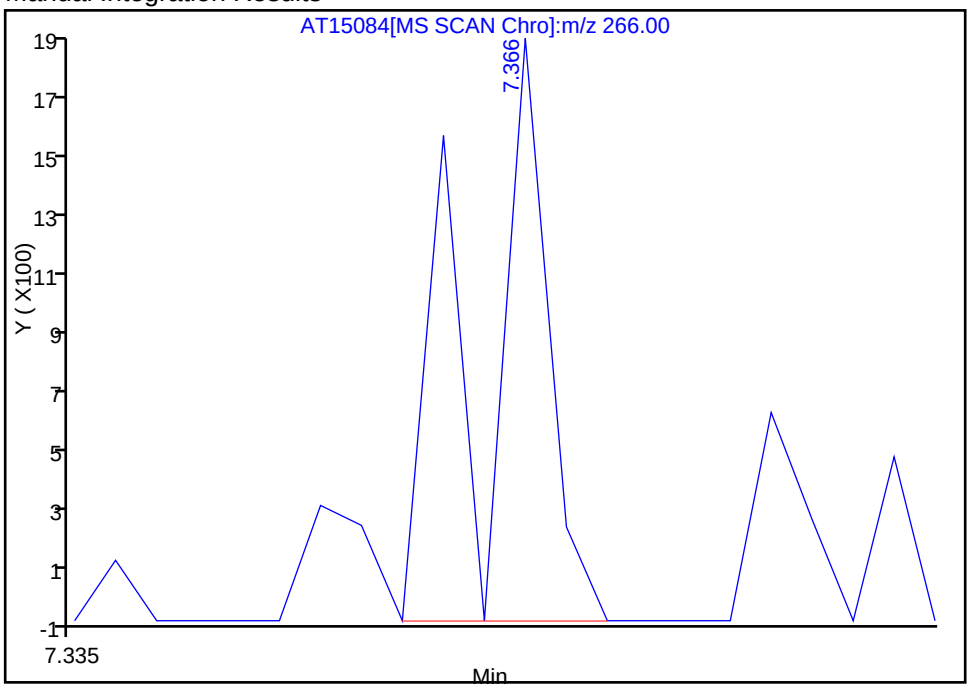
Expected RT: 7.36

Manual Integration Results

RT: 7.37

Response: 636

Amount: 89.849469



Reviewer: phama, 11-May-2010 18:23:35

Audit Action: Manually Integrated

Audit Reason: Assign Peak

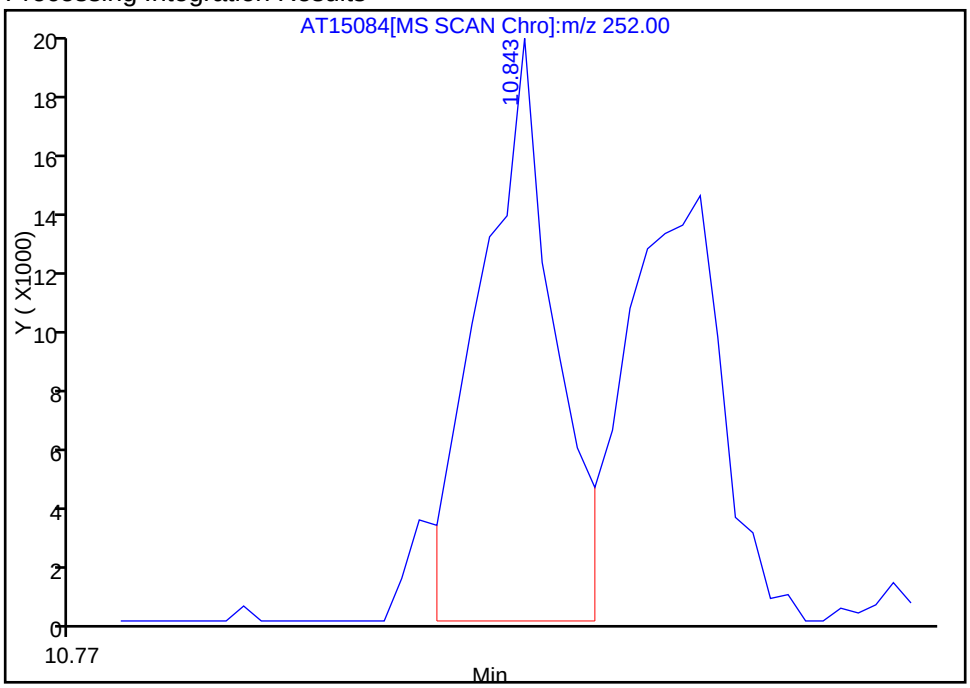
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15084.D		
Inj Date:	11-May-2010 15:56:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	6
Client ID:		Instrument:	TAC002
Sample Info:	ic std 50 ppb		
Sample Amount:	1.00 ul	Operator:	ap

104 Benzo[k]fluoranthene, Number: 1, m/z: 252 Type: quant, RT: 10.87

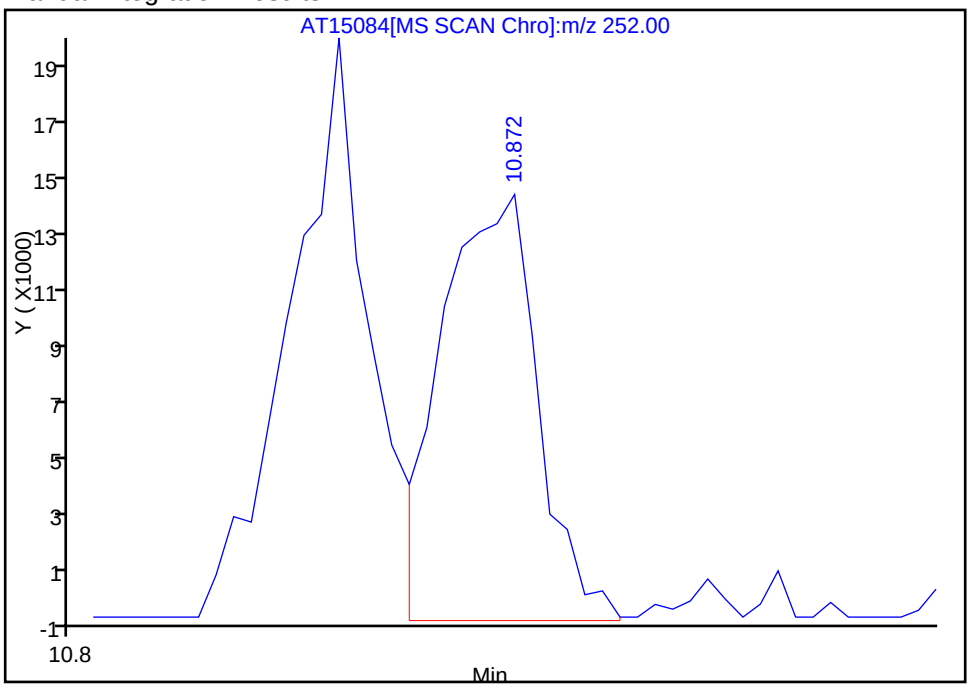
Processing Integration Results

RT: 10.84
Response: 16091
Amount: 94.280872



Manual Integration Results

RT: 10.87
Response: 15769
Amount: 51.304729



Reviewer: phama, 11-May-2010 18:23:35
Audit Action: Manually Integrated
Audit Reason: Other

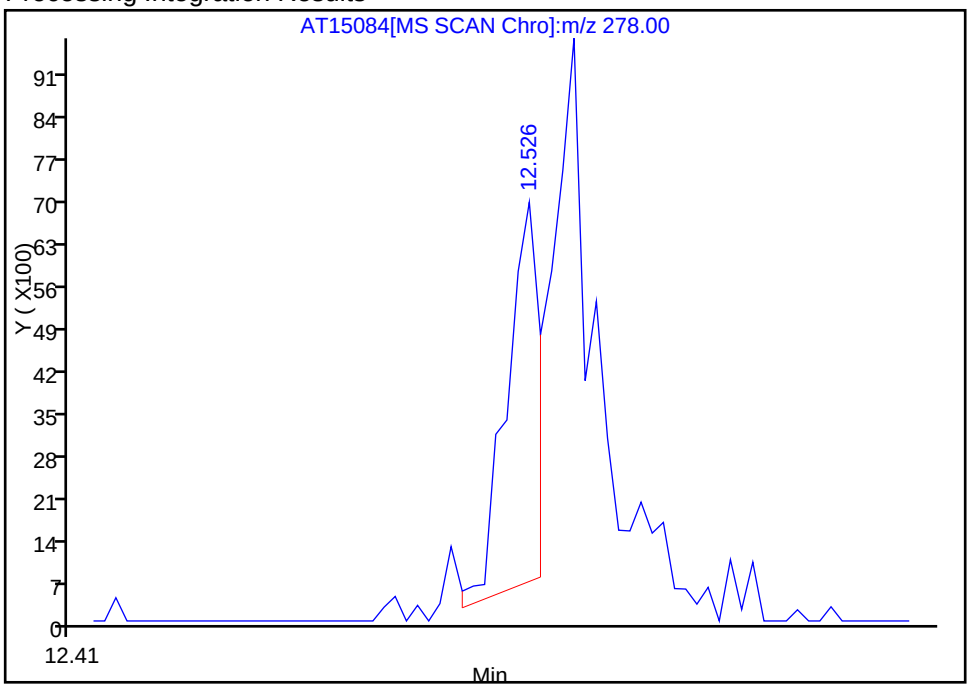
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15084.D		
Inj Date:	11-May-2010 15:56:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	6
Client ID:		Instrument:	TAC002
Sample Info:	ic std 50 ppb		
Sample Amount:	1.00 ul	Operator:	ap

108 Dibenz(a,h)anthracene, Number: 1, m/z: 278 Type: quant, RT: 12.53

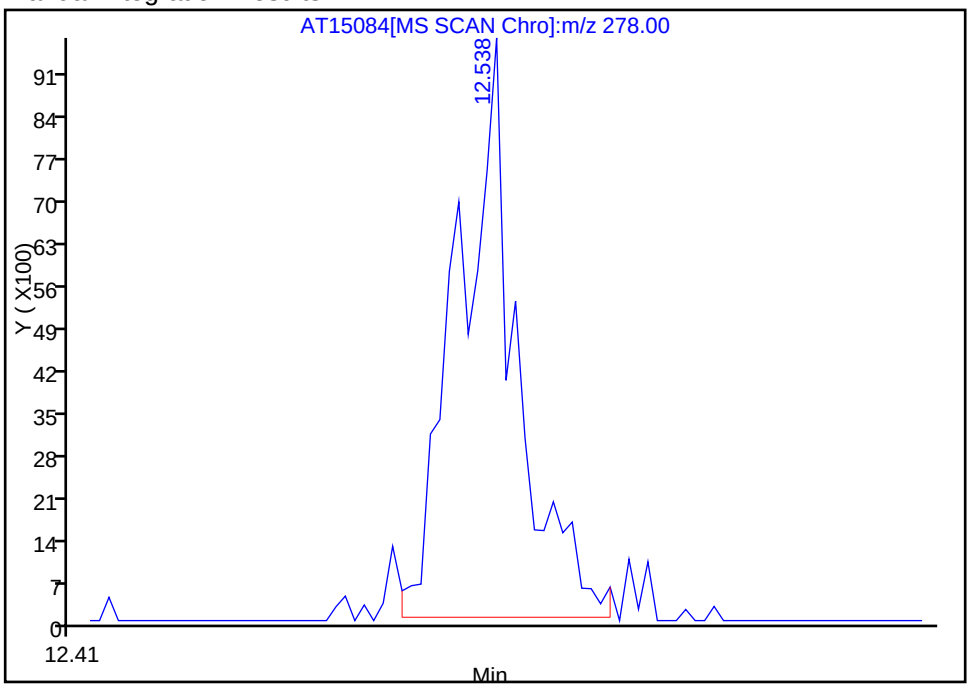
Processing Integration Results

RT: 12.53
Response: 3359
Amount: 91.030877



Manual Integration Results

RT: 12.54
Response: 11799
Amount: 42.136813



Reviewer: phama, 11-May-2010 18:23:35
Audit Action: Manually Integrated
Audit Reason: Other

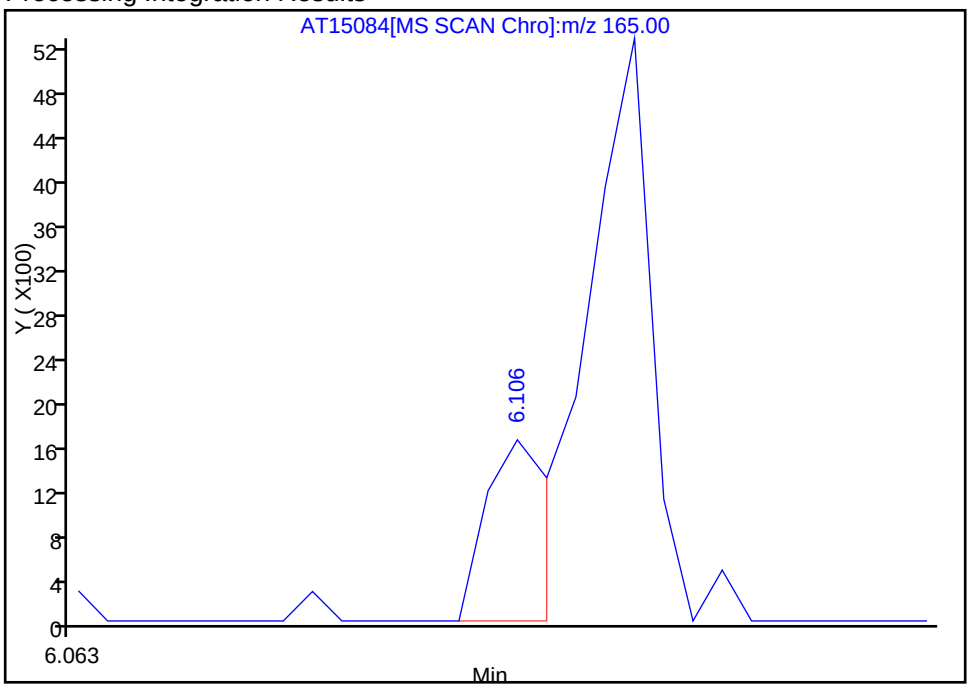
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15084.D		
Inj Date:	11-May-2010 15:56:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	6
Client ID:		Instrument:	TAC002
Sample Info:	ic std 50 ppb		
Sample Amount:	1.00 ul	Operator:	ap

63 2,6-Dinitrotoluene, Number: 1, m/z: 165 Type: quant, RT: 6.11

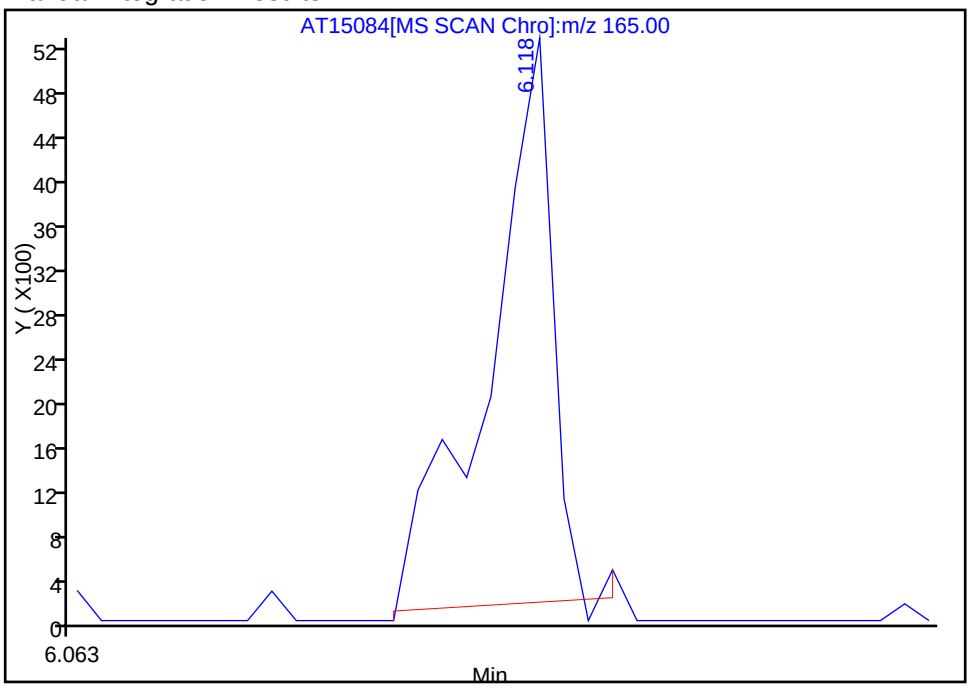
Processing Integration Results

RT: 6.11
Response: 586
Amount: 84.902550



Manual Integration Results

RT: 6.12
Response: 2597
Amount: 51.901741



Reviewer: phama, 11-May-2010 18:23:35
Audit Action: Manually Integrated
Audit Reason: Other

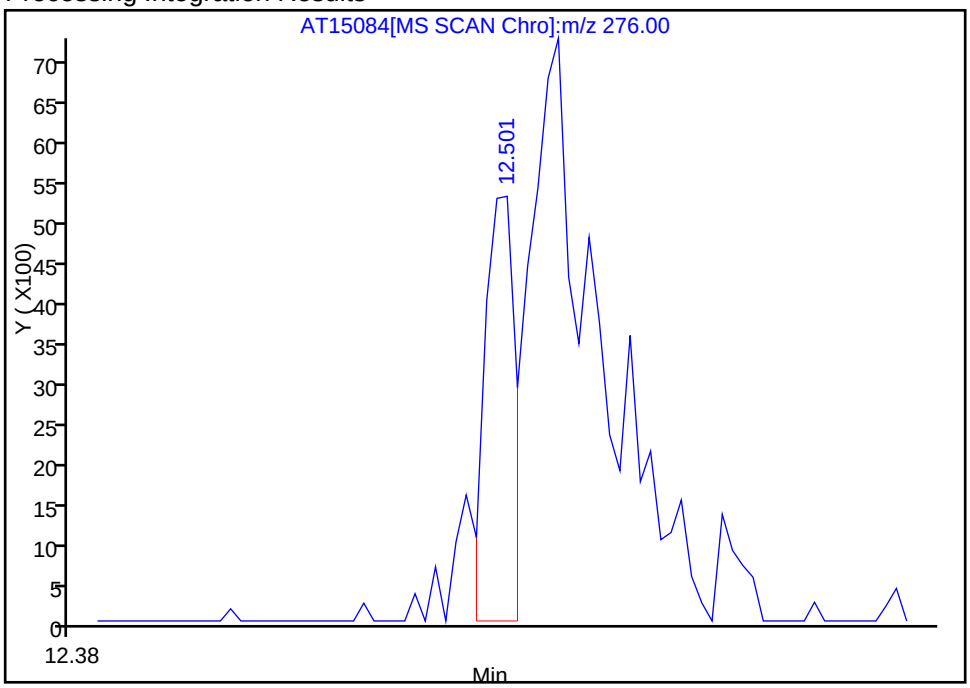
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15084.D		
Inj Date:	11-May-2010 15:56:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	6
Client ID:		Instrument:	TAC002
Sample Info:	ic std 50 ppb		
Sample Amount:	1.00 ul	Operator:	ap

107 Indeno[1,2,3-cd]pyrene, Number: 1, m/z: 276 Type: quant, RT: 12.52

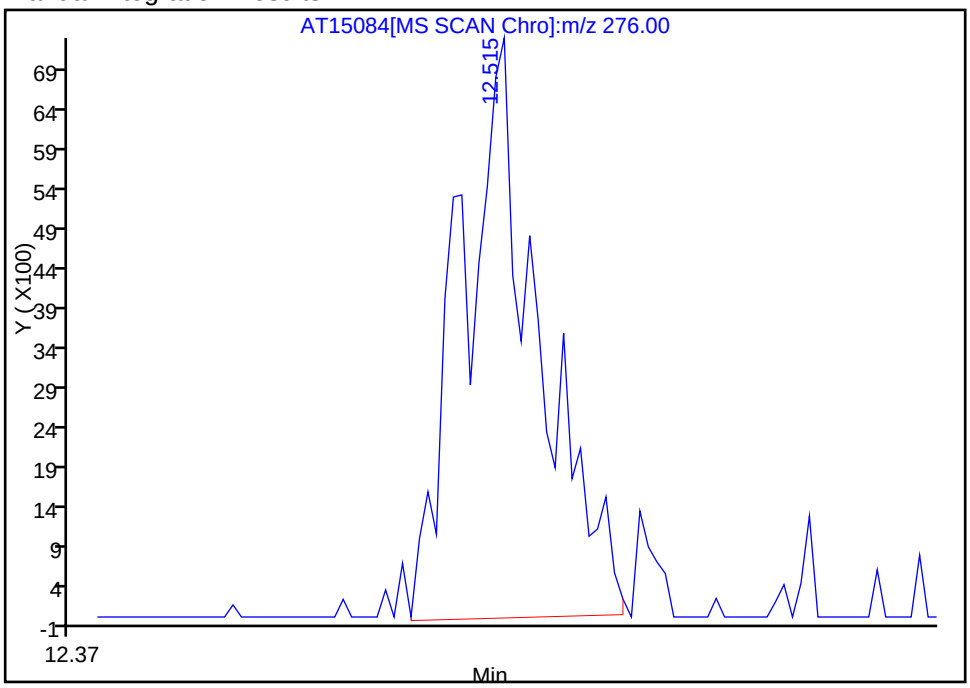
Processing Integration Results

RT: 12.50
Response: 2809
Amount: 88.792473



Manual Integration Results

RT: 12.52
Response: 13126
Amount: 38.682181



Reviewer: phama, 11-May-2010 18:23:35
Audit Action: Manually Integrated
Audit Reason: Other

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15085.D		
Lims ID:	ic std 100 ppb	Client ID:	
Inject. Date:	11-May-2010 16:16:30	Dil. Factor:	1.0000
Sample Type:	IC, ICal Standard	Calib Level:	3
Sample ID:	ic std 100 ppb		
Misc. Info.:	580-0008740-007		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	5
Lims Batch ID:	63269	Lims Sample ID:	7
Sublist:	chrom-8270C TAC002*sub8		
Detector:	MS SCAN		

Method:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\8270C TAC002.m		
Last Update:	26-May-2010 16:13:01	Calib Date:	11-May-2010 17:36:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15089.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		

Reviewed By:	phama	Date:	11-May-2010 16:39:14
Reviewed By:	phama	Date:	11-May-2010 16:39:59
Reviewed By:	phama	Date:	11-May-2010 18:26:42
Reviewed By:	phama	Date:	19-May-2010 09:59:56
Reviewed By:	phama	Date:	26-May-2010 16:12:21
Reviewed By:	phama	Date:	26-May-2010 16:13:01

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.892	3.893	-0.001	80831	994.5	
* 2 Naphthalene-d8	136	4.874	4.875	-0.001	352393	997.0	
* 3 Acenaphthene-d10	164	6.299	6.299	0.000	188664	968.0	
* 4 Phenanthrene-d10	188	7.522	7.520	0.002	327329	984.5	
* 5 Chrysene-d12	240	9.739	9.742	-0.003	337776	974.0	
* 6 Perylene-d12	264	11.232	11.235	-0.003	308910	983.0	
$ 7 2-Fluorophenol	112	2.987	2.976	0.011	10307	100.5	
$ 8 Phenol-d5	99	3.592	3.589	0.003	13438	101.1	
$ 9 Nitrobenzene-d5	82	4.304	4.307	-0.003	9516	87.8	
$ 10 2-Fluorobiphenyl	172	5.740	5.740	0.000	25706	95.6	
$ 11 2,4,6-Tribromophenol	329	6.943	6.944	-0.001	6007	106.3	
$ 12 Terphenyl-d14	244	8.828	8.828	0.000	30715	90.0	M
22 Pyridine	52	2.277	2.249	0.028	16616	463.9	
23 N-Nitrosodimethylamine	42	2.275	2.249	0.026	9328	459.9	
24 Cyclohexanone	55	3.188	3.183	0.005	7223	116.5	
25 Phenol	94	3.603	3.597	0.006	11512	93.4	
26 Aniline	93	3.660	3.654	0.006	11271	86.7	
27 Bis(2-chloroethyl)ether	93	3.688	3.688	0.000	11771	109.3	
28 2-Chlorophenol	128	3.739	3.739	0.000	9530	86.3	
29 n-Decane	57	3.756	3.753	0.003	6829	75.3	
30 1,3-Dichlorobenzene	146	3.853	3.853	0.000	12605	102.4	
31 1,4-Dichlorobenzene	146	3.904	3.904	0.000	13162	100.6	
32 Benzyl alcohol	108	3.983	3.983	0.000	5789	89.1	
33 1,2-Dichlorobenzene	146	4.023	4.020	0.003	11639	93.3	
34 2-Methylphenol	108	4.048	4.051	-0.003	11023	108.1	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
35 2,2'-oxybis[1-chloropropane]	45	4.083	4.080	0.003	9519	95.1	
36 3 & 4 Methylphenol	108	4.162	4.162	0.000	9882	96.8	
38 N-Nitrosodi-n-propylamine	70	4.182	4.182	0.000	7525	113.9	
37 Acetophenone	105	4.188	4.191	-0.003	12716	91.3	
39 Hexachloroethane	117	4.276	4.279	-0.003	4674	102.0	
40 Nitrobenzene	77	4.318	4.321	-0.003	10359	100.8	
41 Isophorone	82	4.505	4.503	0.002	18561	92.5	
42 2-Nitrophenol	139	4.565	4.568	-0.003	5984	95.8	
43 2,4-Dimethylphenol	107	4.585	4.582	0.003	6070	65.5	
44 Benzoic acid	105	4.613	4.636	-0.023	4746	668.9	M
45 Bis(2-chloroethoxy)methane	93	4.664	4.665	-0.001	11387	92.4	
46 2,4-Dichlorophenol	162	4.750	4.750	0.000	9182	96.0	
47 1,2,4-Trichlorobenzene	180	4.820	4.823	-0.003	10580	91.9	
48 Naphthalene	128	4.894	4.892	0.002	38745	104.1	
49 4-Chloroaniline	127	4.920	4.923	-0.003	11641	87.3	
50 Hexachlorobutadiene	225	4.982	4.985	-0.003	5689	96.3	
51 4-Chloro-3-methylphenol	107	5.300	5.297	0.003	7332	92.5	
52 2-Methylnaphthalene	142	5.445	5.445	0.000	21470	93.0	
53 1-Methylnaphthalene	142	5.527	5.527	0.000	23468	95.2	
54 Hexachlorocyclopentadiene	237	5.573	5.573	0.000	5047	88.4	
55 2,4,6-Trichlorophenol	196	5.666	5.666	0.000	5727	93.6	
56 2,3-Dichlorobenzenamine	161	5.672	5.672	0.000	12278	107.4	
57 2,4,5-Trichlorophenol	196	5.695	5.695	0.000	6029	84.6	
58 1,1'-Biphenyl	154	5.825	5.823	0.002	24856	89.9	
59 2-Chloronaphthalene	162	5.842	5.842	0.000	21172	95.9	
60 2-Nitroaniline	65	5.916	5.919	-0.003	3672	105.4	
62 Dimethyl phthalate	163	6.064	6.064	0.000	20646	94.0	
63 2,6-Dinitrotoluene	165	6.109	6.112	-0.003	5047	93.4	
64 Acenaphthylene	152	6.186	6.186	0.000	33664	100.9	
65 3-Nitroaniline	138	6.254	6.251	0.003	3895	86.3	
66 Acenaphthene	153	6.325	6.325	0.000	23366	103.5	
67 2,4-Dinitrophenol	184	6.336	6.336	0.000	5041	543.1	
68 4-Nitrophenol	109	6.370	6.373	-0.003	5405	521.4	
69 2,4-Dinitrotoluene	165	6.444	6.444	0.000	4242	75.3	
70 Dibenzofuran	168	6.467	6.467	0.000	30786	100.8	
71 2,3,5,6-Tetrachlorophenol	232	6.532	6.526	0.006	3601	75.5	
72 2,3,4,6-Tetrachlorophenol	232	6.563	6.560	0.003	6123	105.0	
73 Diethyl phthalate	149	6.643	6.643	0.000	21575	99.4	M
76 4-Chlorophenyl phenyl ether	204	6.745	6.745	0.000	11329	100.2	
75 Fluorene	166	6.748	6.751	-0.003	22016	88.1	
77 4-Nitroaniline	138	6.748	6.756	-0.008	4064	30.9	
78 4,6-Dinitro-2-methylphenol	198	6.776	6.776	0.000	9917	400.6	
79 N-Nitrosodiphenylamine	169	6.838	6.839	-0.001	20162	101.2	
80 Azobenzene	77	6.875	6.873	0.002	17877	95.4	M
81 4-Bromophenyl phenyl ether	248	7.145	7.148	-0.003	9416	150.7	
82 Hexachlorobenzene	284	7.196	7.199	-0.003	10261	106.8	
83 Pentachlorophenol	266	7.369	7.358	0.011	2322	119.5	M
84 n-Octadecane	43	7.415	7.415	0.000	5265	98.9	
86 Phenanthrene	178	7.542	7.543	0.000	35232	99.8	
87 Anthracene	178	7.585	7.582	0.003	32540	95.1	
89 Carbazole	167	7.713	7.707	0.006	27532	93.5	
90 Di-n-butyl phthalate	149	7.988	7.988	0.000	44893	109.6	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
95 Fluoranthene	202	8.519	8.522	-0.003	32787	88.8	
94 Benzidine	184	8.618	8.624	-0.006	17730	145.5	
93 Pyrene	202	8.712	8.709	0.003	34938	82.7	
97 Butyl benzyl phthalate	149	9.225	9.223	0.002	16571	104.8	
98 3,3'-Dichlorobenzidine	252	9.699	9.700	-0.001	21930	207.4	
99 Benzo[a]anthracene	228	9.731	9.731	0.000	33293	89.0	
101 Bis(2-ethylhexyl) phthalate	149	9.733	9.731	0.002	24417	101.8	
100 Chrysene	228	9.762	9.765	-0.003	38283	96.8	
102 Di-n-octyl phthalate	149	10.412	10.412	0.000	28753	85.6	
103 Benzo[b]fluoranthene	252	10.840	10.841	-0.001	33953	90.2	M
105 Benzofluoranthene	252	10.840	10.869	-0.029	76407	196.1	M
104 Benzo[k]fluoranthene	252	10.863	10.869	-0.006	42492	106.8	M
106 Benzo[a]pyrene	252	11.172	11.175	-0.003	38728	103.6	
107 Indeno[1,2,3-cd]pyrene	276	12.512	12.518	-0.006	43798	99.7	M
108 Dibenz(a,h)anthracene	278	12.532	12.529	0.003	35738	98.6	M
109 Benzo[g,h,i]perylene	276	12.878	12.878	0.000	39278	105.7	M

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 26-May-2010 16:13:01 Chrom Revision: 1.1 20-Apr-2010 06:13:18

Data File: \\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15085.D

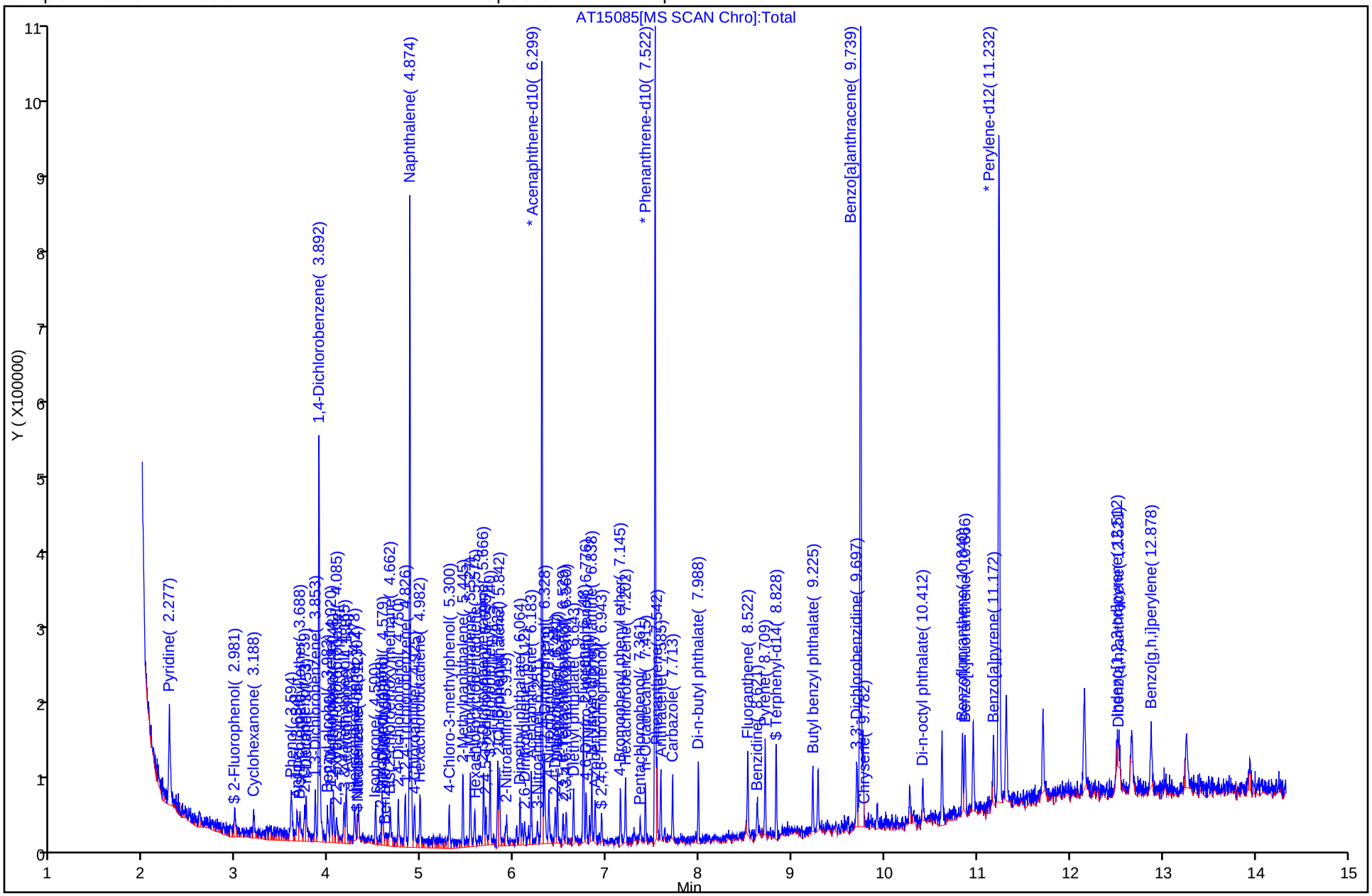
Inj Date: 11-May-2010 16:16:30 Limit Group: 8270C Standard

Lims Batch ID: 63269 Lims Sample ID: 7

Client ID: Instrument: TAC002

Sample Info: ic std 100 ppb

Sample Amount: 1.00 ul Operator: ap



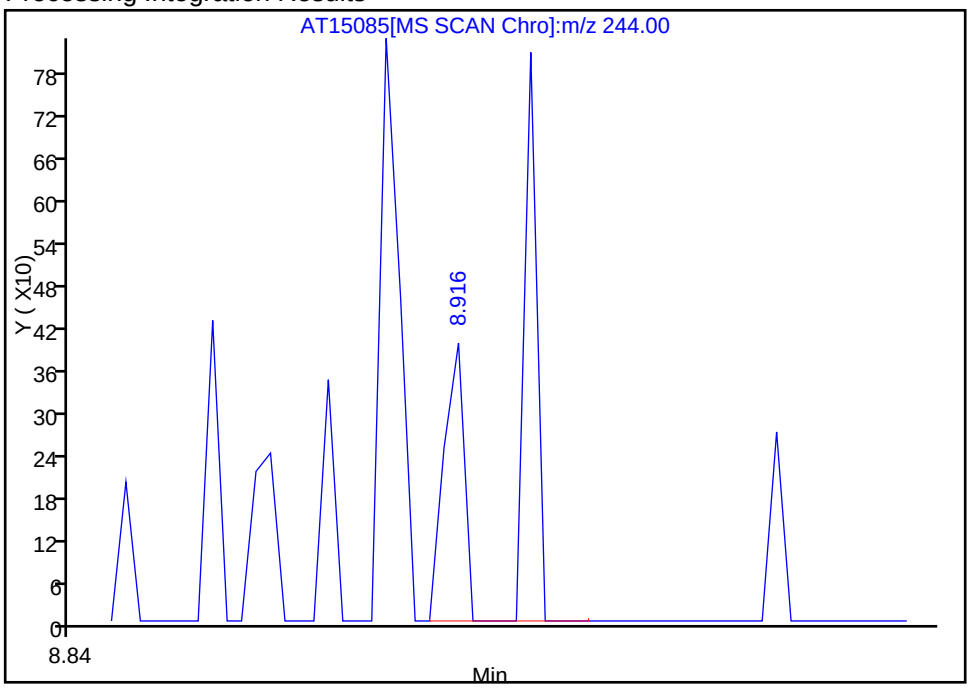
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15085.D		
Inj Date:	11-May-2010 16:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	7
Client ID:		Instrument:	TAC002
Sample Info:	ic std 100 ppb		
Sample Amount:	1.00 ul	Operator:	ap

$ 12 Terphenyl-d14, Number: 1, m/z: 244 Type: quant, RT: 8.83

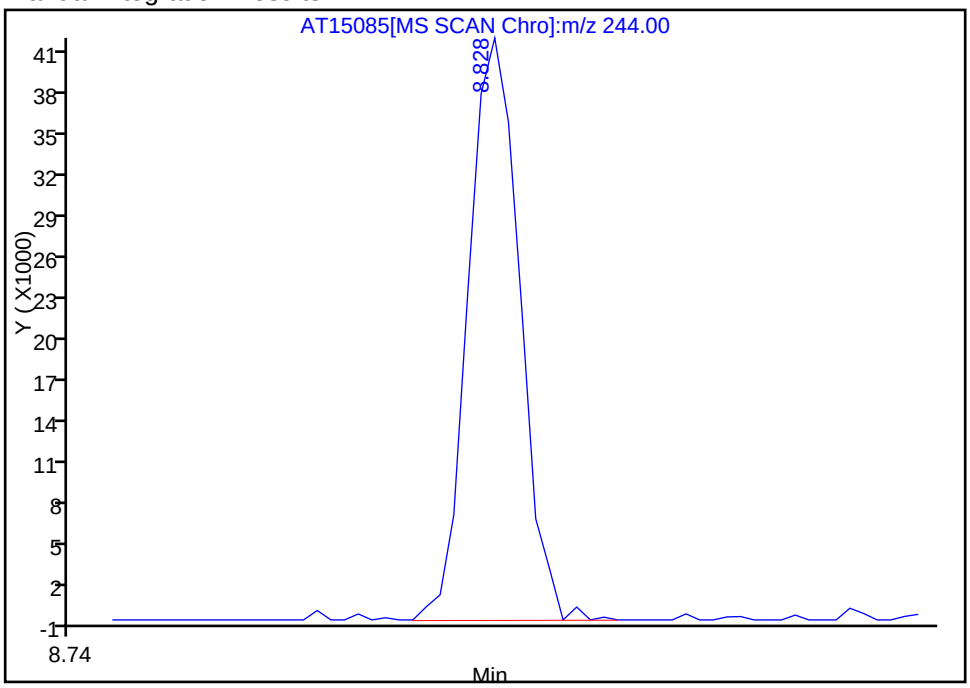
Processing Integration Results

RT: 8.92
Response: 245
Amount: 83.165631



Manual Integration Results

RT: 8.83
Response: 30715
Amount: 89.974928



Reviewer: phama, 11-May-2010 18:26:42
Audit Action: Manually Integrated
Audit Reason: Wrong peak

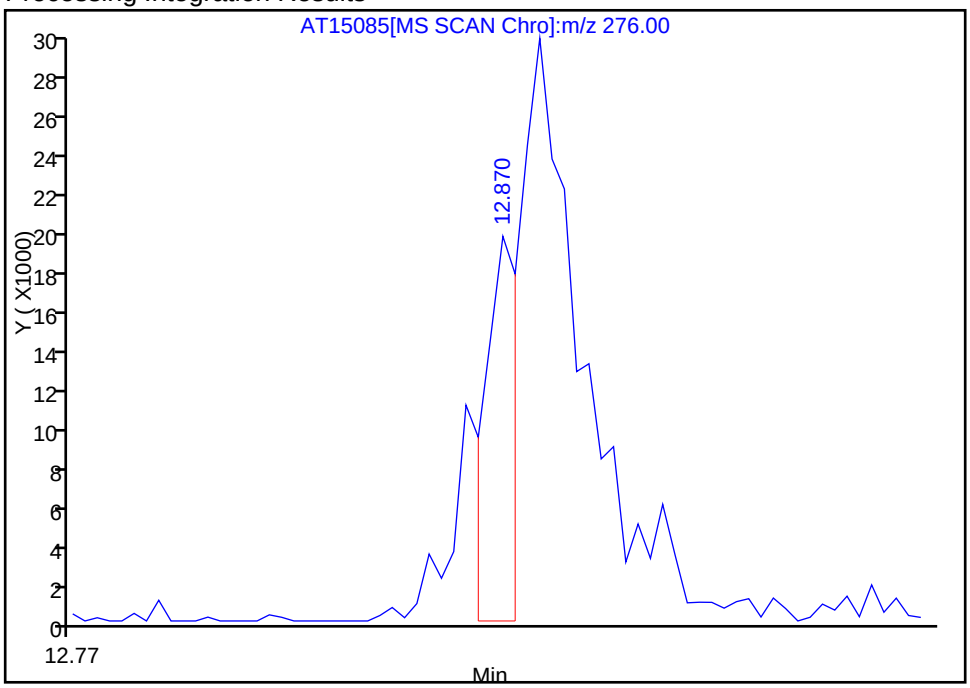
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15085.D		
Inj Date:	11-May-2010 16:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	7
Client ID:		Instrument:	TAC002
Sample Info:	ic std 100 ppb		
Sample Amount:	1.00 ul	Operator:	ap

109 Benzo[g,h,i]perylene, Number: 1, m/z: 276 Type: quant, RT: 12.88

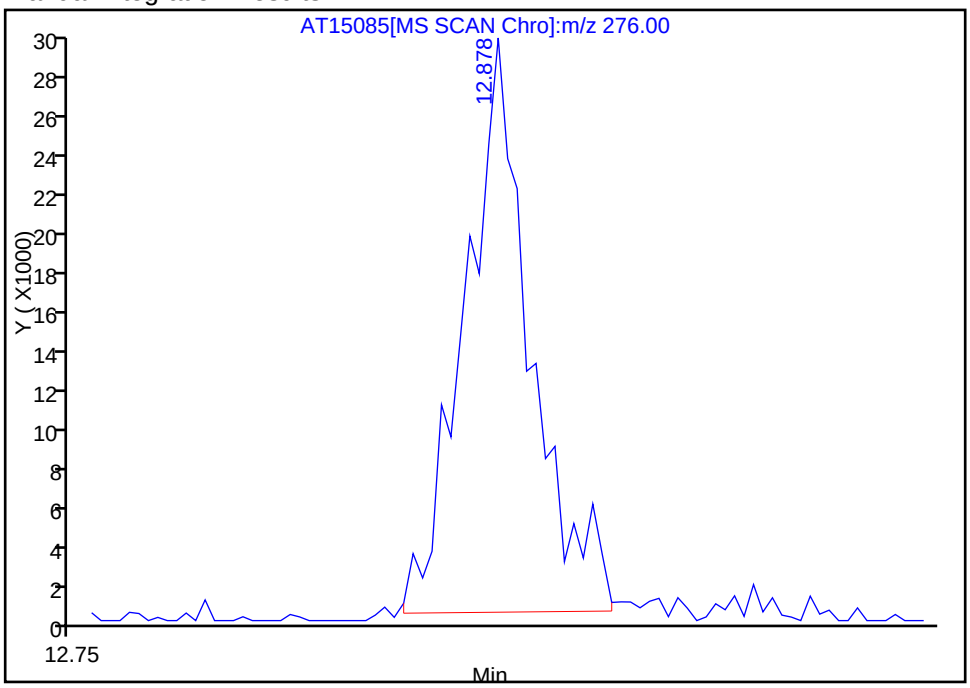
Processing Integration Results

RT: 12.87
Response: 7930
Amount: 87.944506



Manual Integration Results

RT: 12.88
Response: 39278
Amount: 105.6820



Reviewer: phama, 11-May-2010 18:26:42
Audit Action: Manually Integrated
Audit Reason: Other

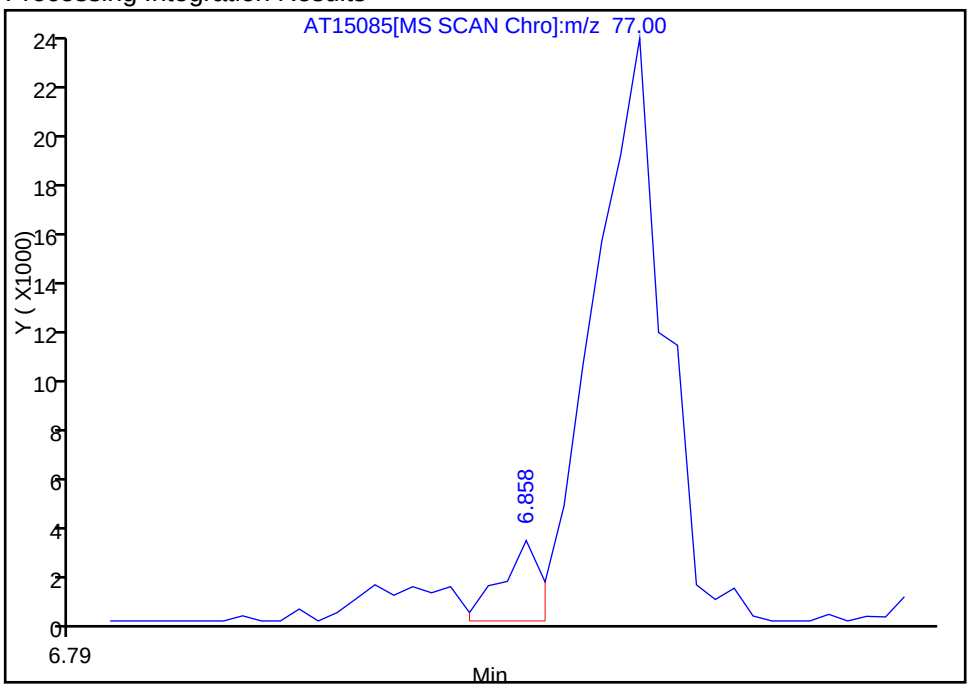
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15085.D		
Inj Date:	11-May-2010 16:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	7
Client ID:		Instrument:	TAC002
Sample Info:	ic std 100 ppb		
Sample Amount:	1.00 ul	Operator:	ap

80 Azobenzene, Number: 1, m/z: 77 Type: quant, RT: 6.87

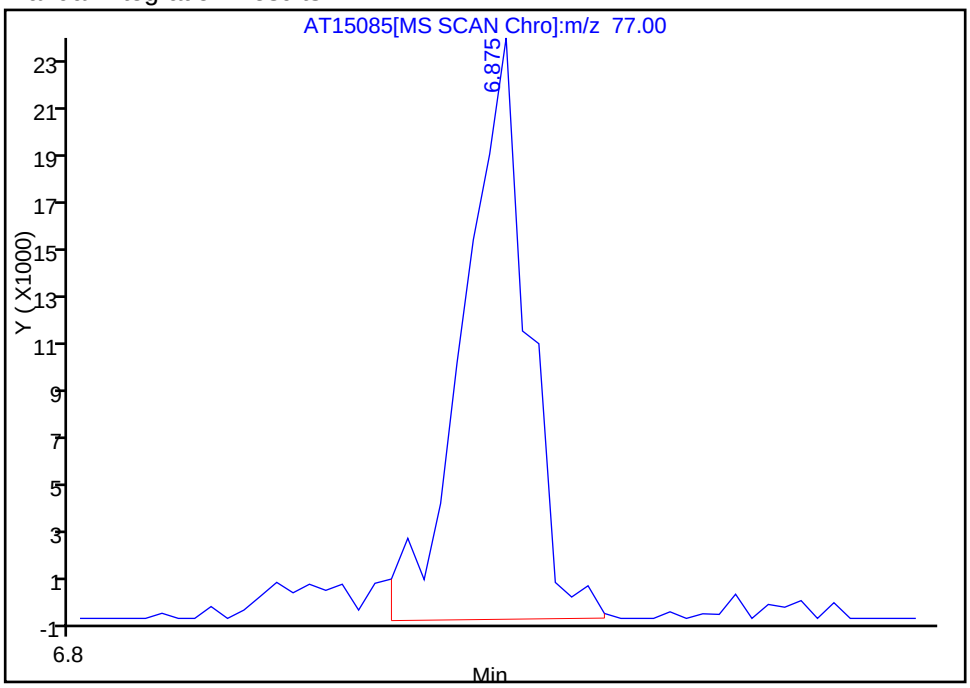
Processing Integration Results

RT: 6.86
Response: 1225
Amount: 74.342686



Manual Integration Results

RT: 6.88
Response: 17877
Amount: 95.405249



Reviewer: phama, 11-May-2010 18:26:42
Audit Action: Manually Integrated
Audit Reason: Wrong peak

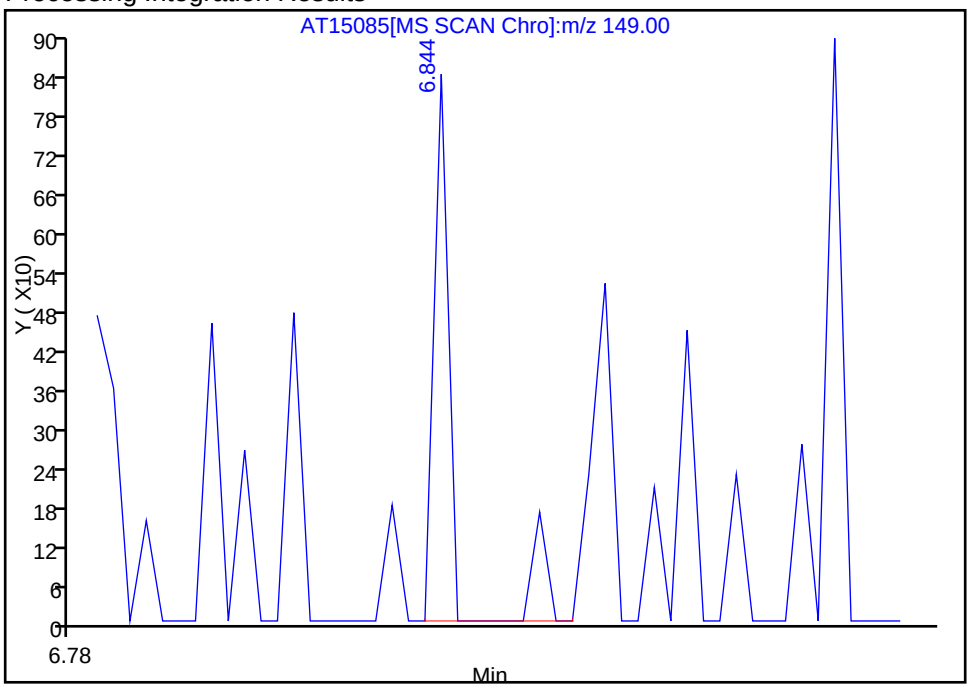
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15085.D		
Inj Date:	11-May-2010 16:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	7
Client ID:		Instrument:	TAC002
Sample Info:	ic std 100 ppb		
Sample Amount:	1.00 ul	Operator:	ap

73 Diethyl phthalate, Number: 1, m/z: 149 Type: quant, RT: 6.64

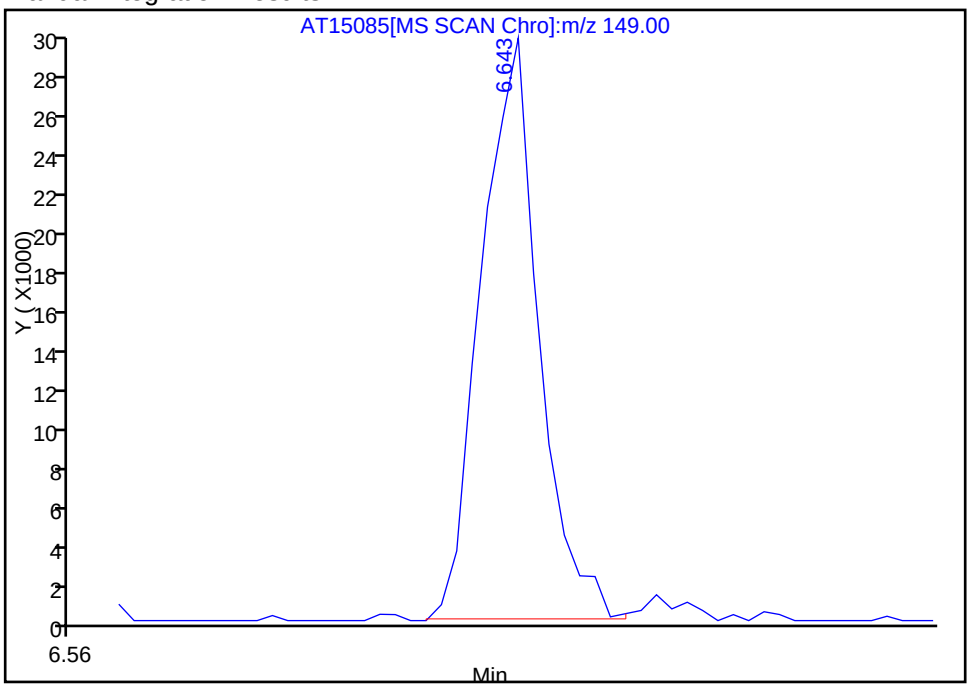
Processing Integration Results

RT: 6.84
Response: 171
Amount: 65.848510



Manual Integration Results

RT: 6.64
Response: 21575
Amount: 99.352393



Reviewer: phama, 11-May-2010 18:26:42
Audit Action: Manually Integrated
Audit Reason: Assign Peak

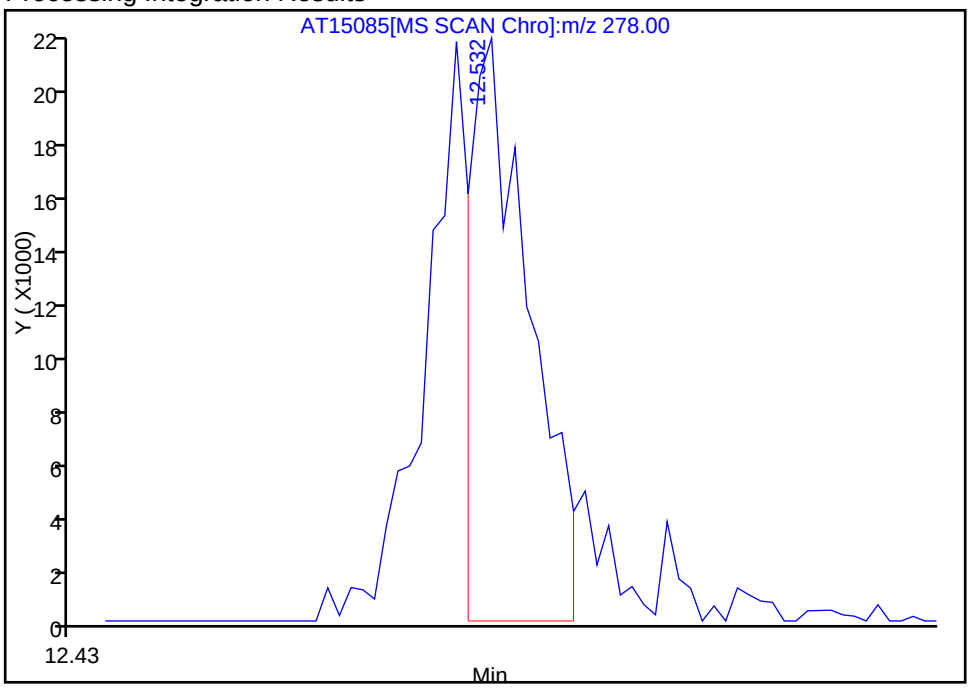
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15085.D		
Inj Date:	11-May-2010 16:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	7
Client ID:		Instrument:	TAC002
Sample Info:	ic std 100 ppb		
Sample Amount:	1.00 ul	Operator:	ap

108 Dibenz(a,h)anthracene, Number: 1, m/z: 278 Type: quant, RT: 12.53

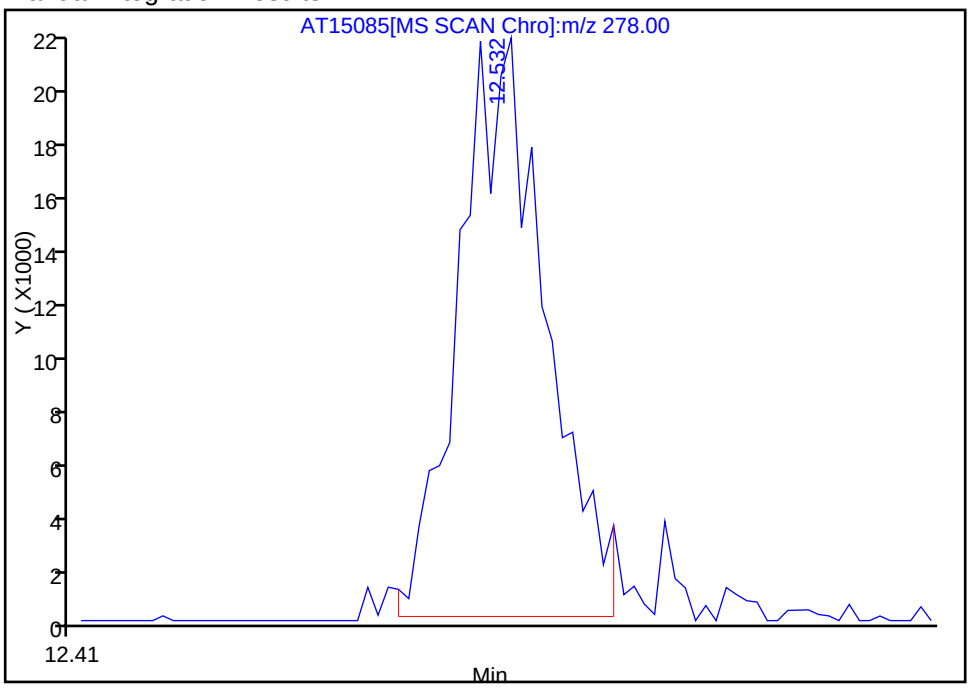
Processing Integration Results

RT: 12.53
Response: 20483
Amount: 104.0156



Manual Integration Results

RT: 12.53
Response: 35738
Amount: 98.602316



Reviewer: phama, 11-May-2010 18:26:42
Audit Action: Manually Integrated
Audit Reason: Other

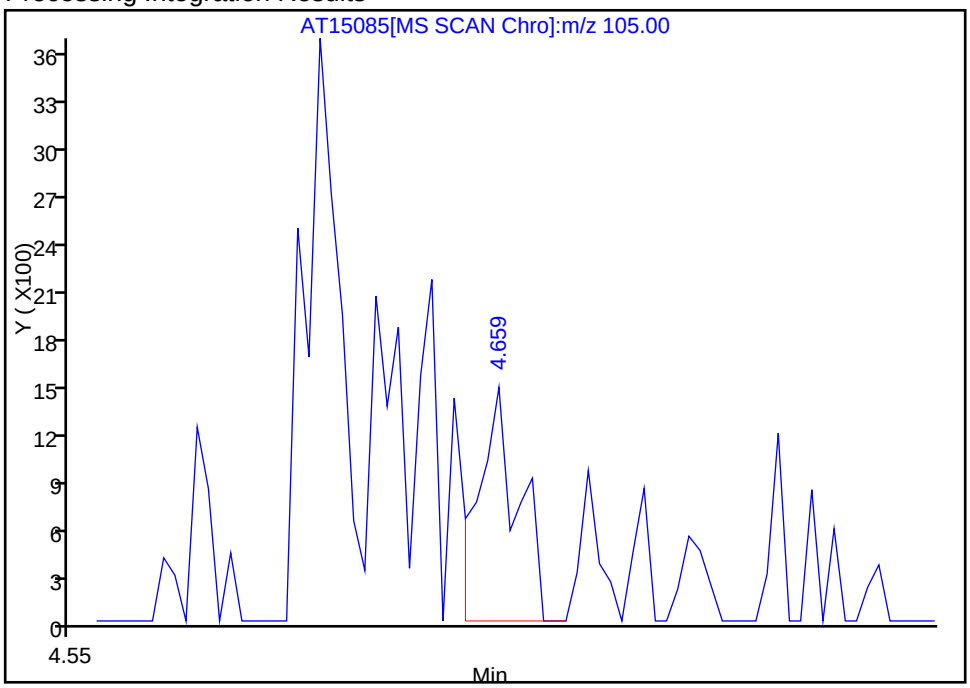
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15085.D		
Inj Date:	11-May-2010 16:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	7
Client ID:		Instrument:	TAC002
Sample Info:	ic std 100 ppb		
Sample Amount:	1.00 ul	Operator:	ap

44 Benzoic acid, Number: 1, m/z: 105 Type: quant, RT: 4.64

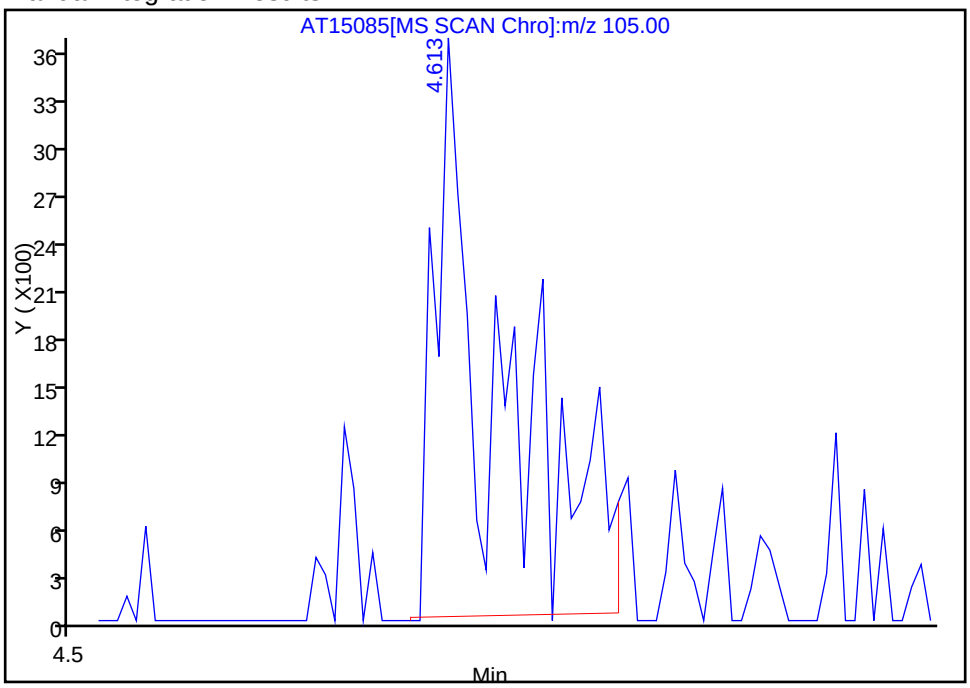
Processing Integration Results

RT: 4.66
Response: 974
Amount: 257.9393



Manual Integration Results

RT: 4.61
Response: 4746
Amount: 668.8752



Reviewer: phama, 11-May-2010 18:26:42
Audit Action: Manually Integrated
Audit Reason: Wrong peak

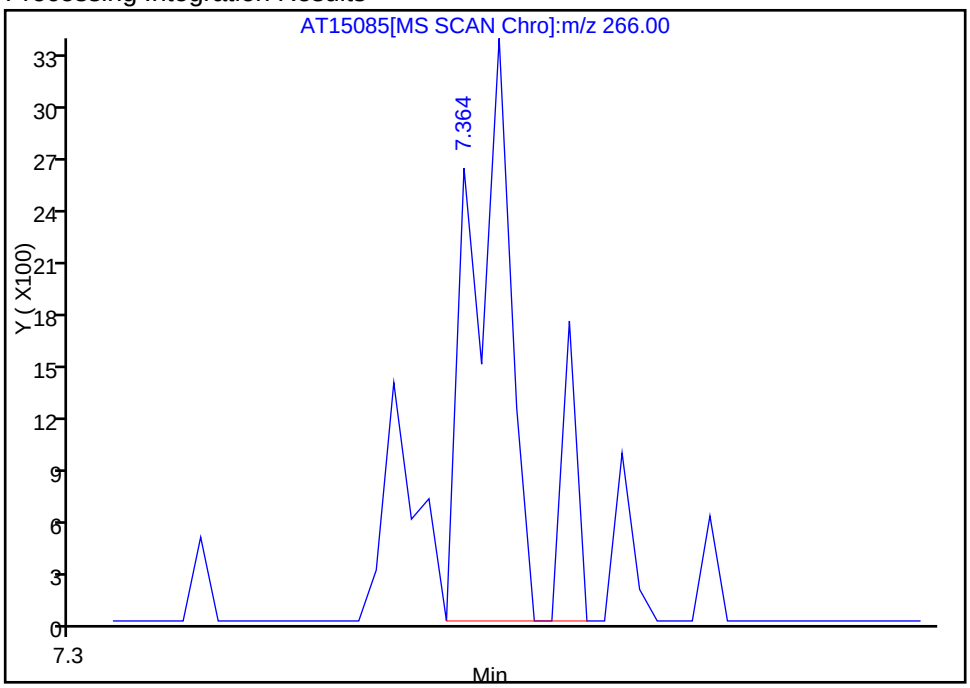
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15085.D		
Inj Date:	11-May-2010 16:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	7
Client ID:		Instrument:	TAC002
Sample Info:	ic std 100 ppb		
Sample Amount:	1.00 ul	Operator:	ap

83 Pentachlorophenol, Number: 1, m/z: 266 Type: quant, RT: 7.36

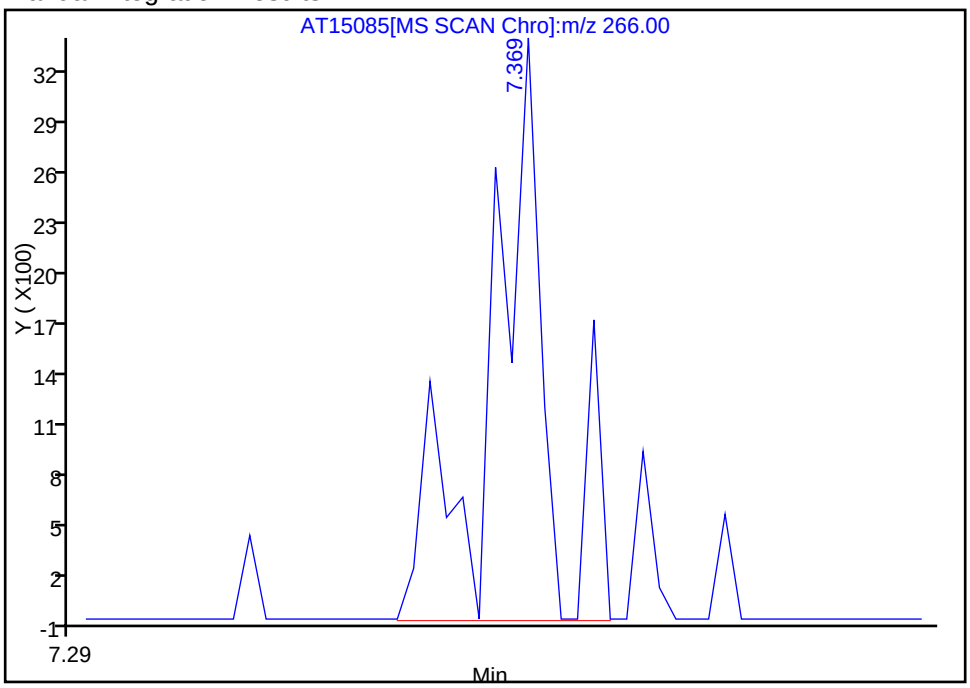
Processing Integration Results

RT: 7.36
Response: 1792
Amount: 54.503377



Manual Integration Results

RT: 7.37
Response: 2322
Amount: 119.4931



Reviewer: phama, 11-May-2010 18:26:42
Audit Action: Manually Integrated
Audit Reason: Other

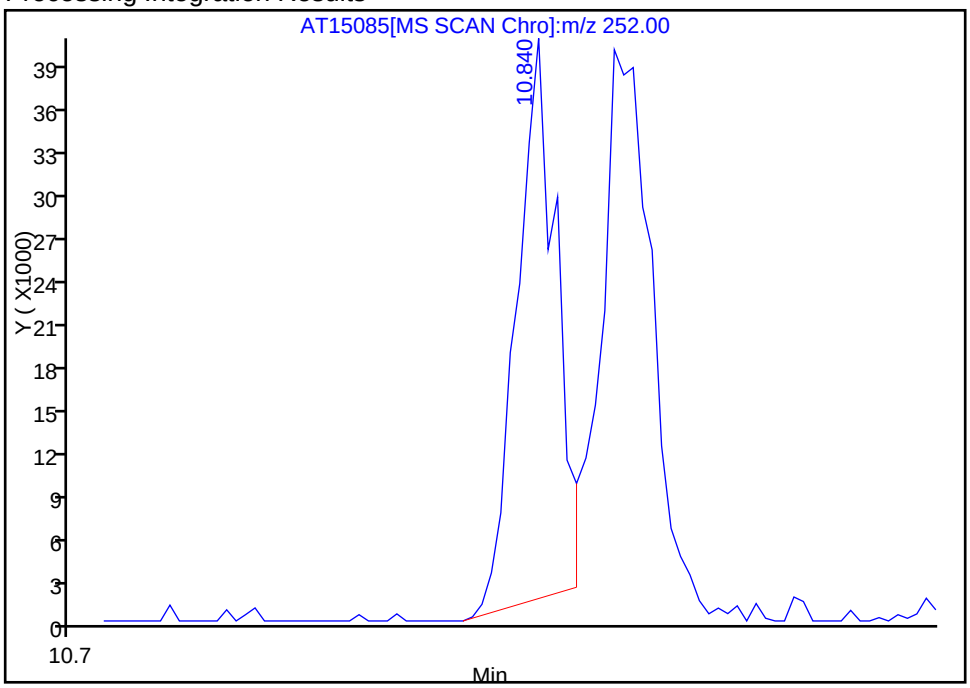
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15085.D		
Inj Date:	11-May-2010 16:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	7
Client ID:		Instrument:	TAC002
Sample Info:	ic std 100 ppb		
Sample Amount:	1.00 ul	Operator:	ap

105 Benzofluoranthene, Number: 1, m/z: 252 Type: quant, RT: 10.87

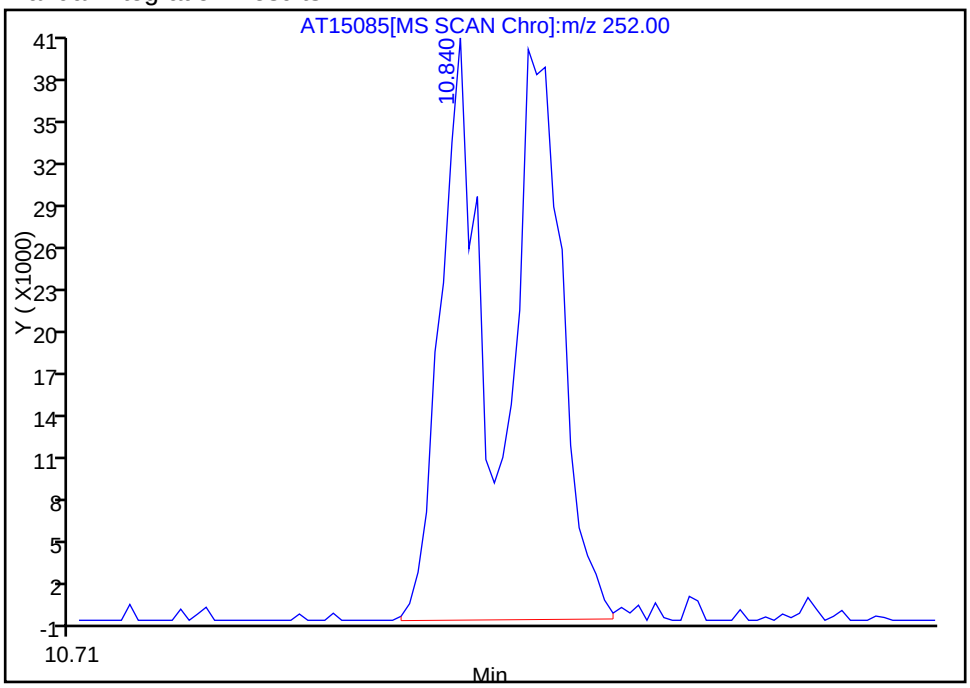
Processing Integration Results

RT: 10.84
Response: 31495
Amount: 186.2126



Manual Integration Results

RT: 10.84
Response: 76407
Amount: 196.0694



Reviewer: phama, 11-May-2010 18:26:42
Audit Action: Manually Integrated
Audit Reason: Other

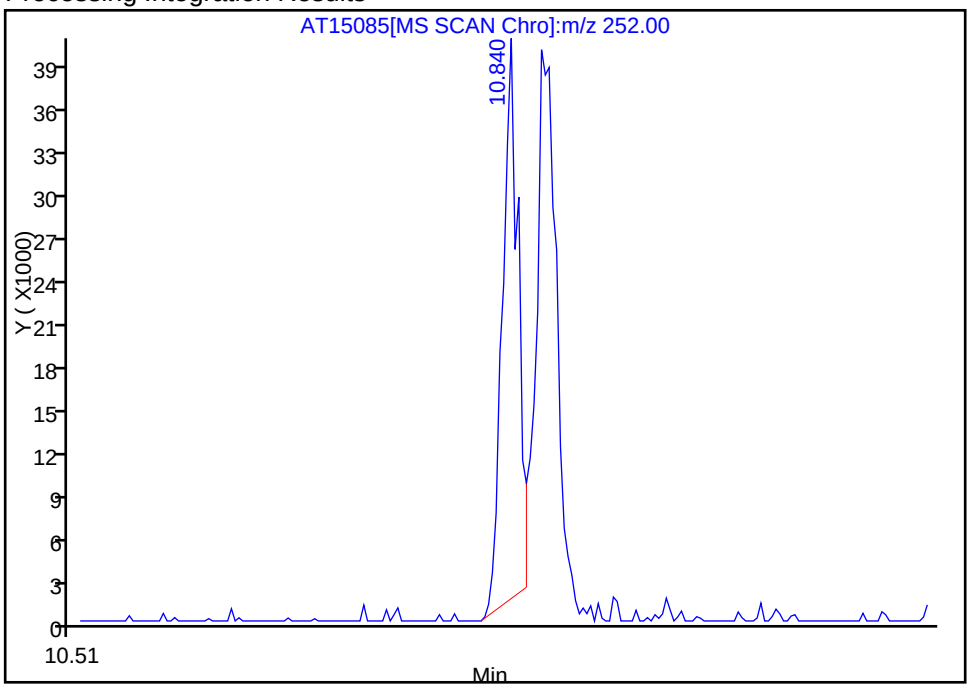
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15085.D		
Inj Date:	11-May-2010 16:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	7
Client ID:		Instrument:	TAC002
Sample Info:	ic std 100 ppb		
Sample Amount:	1.00 ul	Operator:	ap

103 Benzo[b]fluoranthene, Number: 1, m/z: 252 Type: quant, RT: 10.84

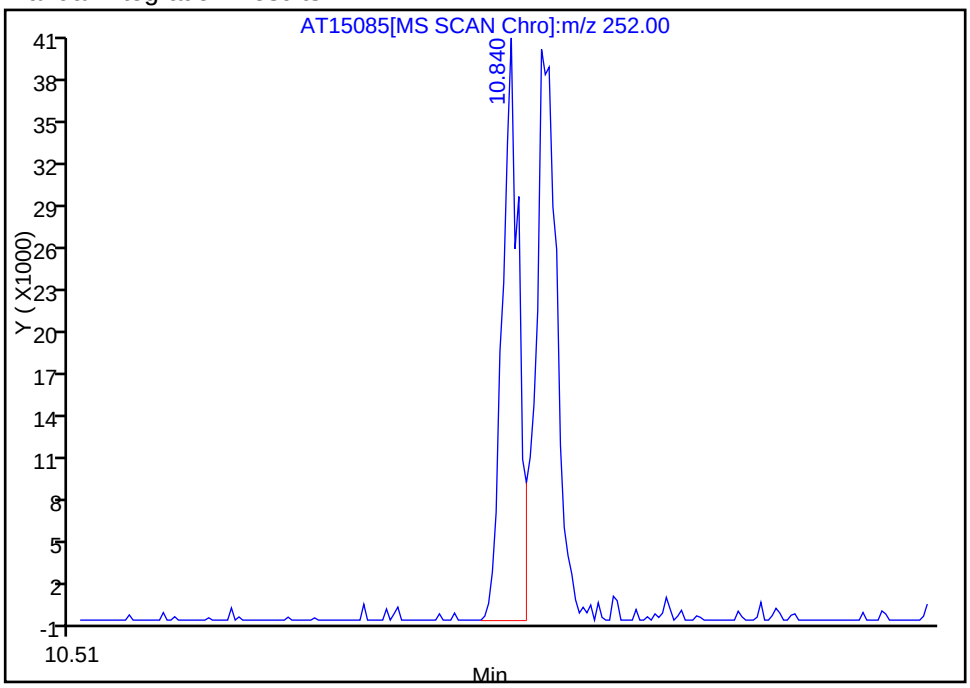
Processing Integration Results

RT: 10.84
Response: 31495
Amount: 109.0088



Manual Integration Results

RT: 10.84
Response: 33953
Amount: 90.194847



Reviewer: phama, 11-May-2010 18:26:42
Audit Action: Manually Integrated
Audit Reason: Baseline

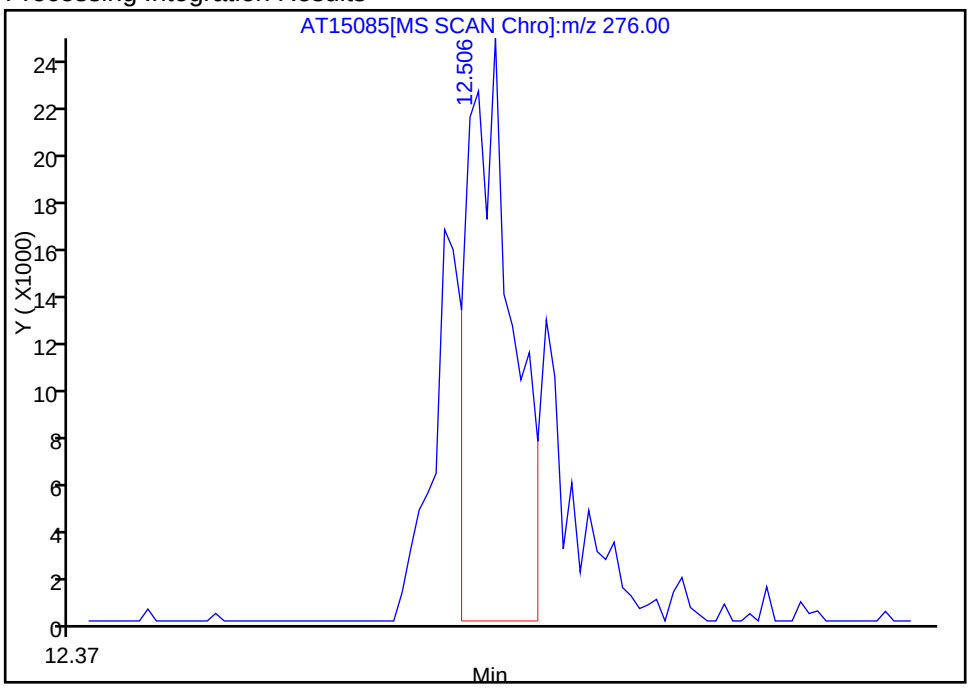
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15085.D		
Inj Date:	11-May-2010 16:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	7
Client ID:		Instrument:	TAC002
Sample Info:	ic std 100 ppb		
Sample Amount:	1.00 ul	Operator:	ap

107 Indeno[1,2,3-cd]pyrene, Number: 1, m/z: 276 Type: quant, RT: 12.52

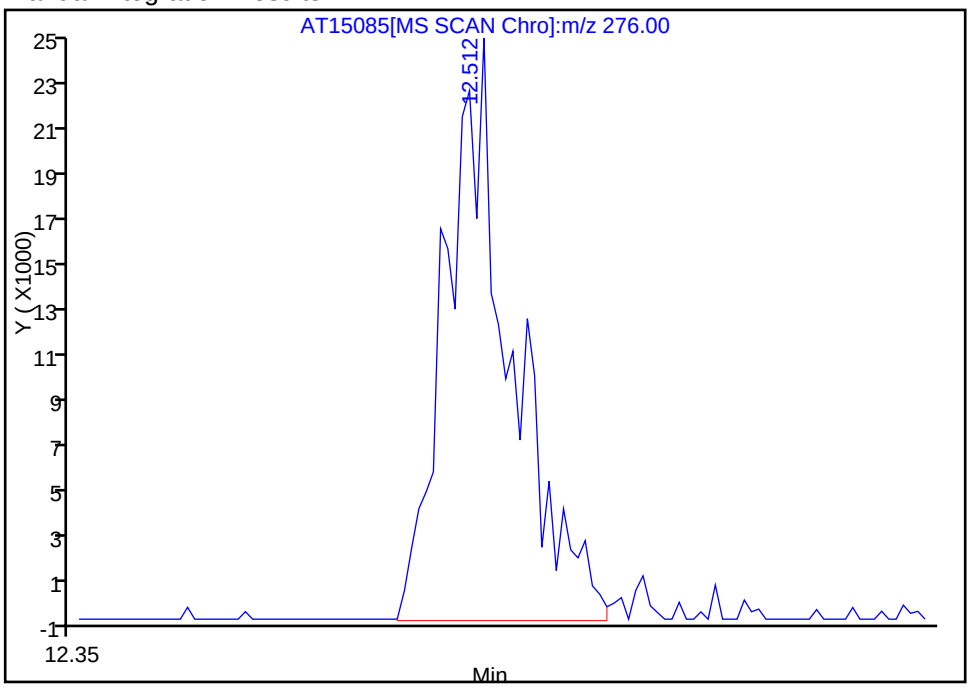
Processing Integration Results

RT: 12.51
Response: 24291
Amount: 100.4138



Manual Integration Results

RT: 12.51
Response: 43798
Amount: 99.717922



Reviewer: phama, 11-May-2010 18:26:42
Audit Action: Manually Integrated
Audit Reason: Other

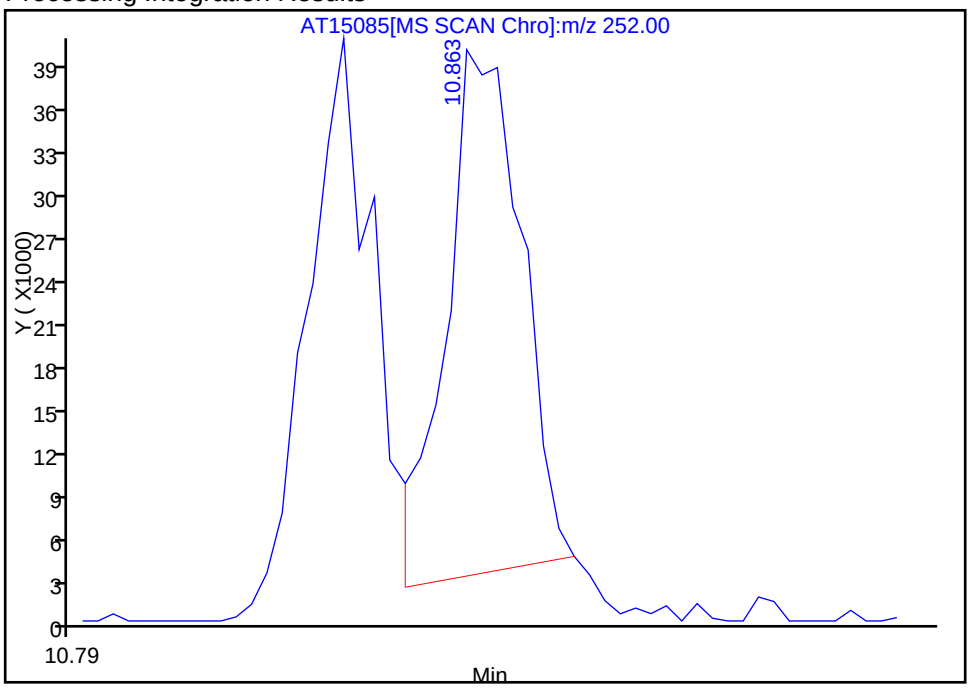
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15085.D		
Inj Date:	11-May-2010 16:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	7
Client ID:		Instrument:	TAC002
Sample Info:	ic std 100 ppb		
Sample Amount:	1.00 ul	Operator:	ap

104 Benzo[k]fluoranthene, Number: 1, m/z: 252 Type: quant, RT: 10.87

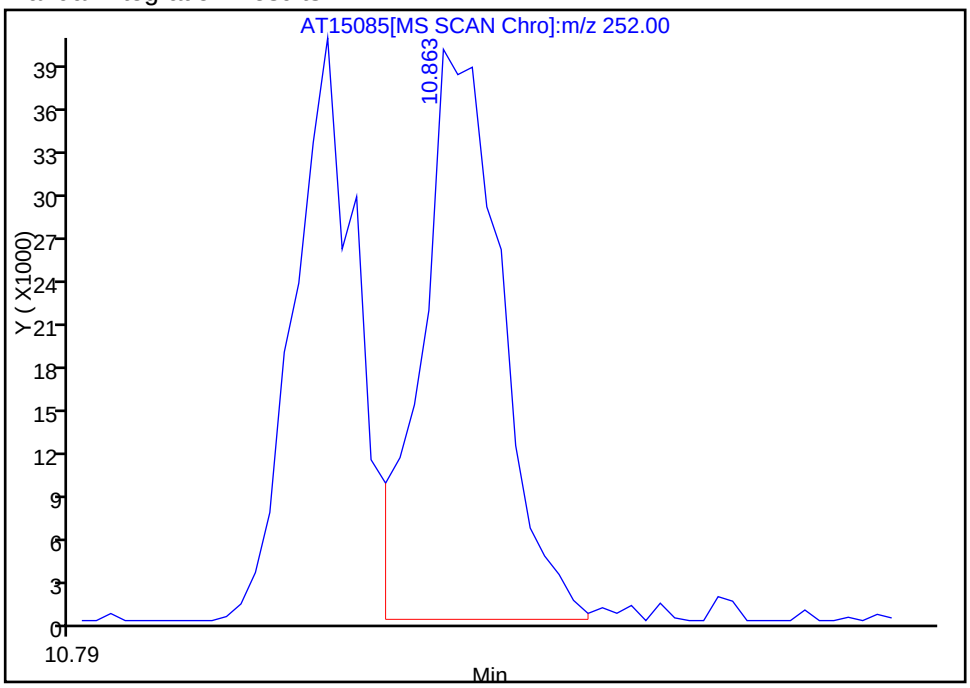
Processing Integration Results

RT: 10.86
Response: 35109
Amount: 108.3972



Manual Integration Results

RT: 10.86
Response: 42492
Amount: 106.8073



Reviewer: phama, 11-May-2010 18:26:42
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15086.D		
Lims ID:	ic std 200 ppb	Client ID:	
Inject. Date:	11-May-2010 16:36:30	Dil. Factor:	1.0000
Sample Type:	IC, ICal Standard	Calib Level:	4
Sample ID:	ic std 200 ppb		
Misc. Info.:	580-0008740-008		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	6
Lims Batch ID:	63269	Lims Sample ID:	8
Sublist:	chrom-8270C TAC002*sub8		
Detector:	MS SCAN		
Method:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\8270C TAC002.m		
Last Update:	26-May-2010 16:13:04	Calib Date:	11-May-2010 17:36:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15089.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		
Reviewed By:	phama	Date:	11-May-2010 18:30:21
Reviewed By:	phama	Date:	19-May-2010 10:00:00
Reviewed By:	phama	Date:	26-May-2010 16:12:24
Reviewed By:	phama	Date:	26-May-2010 16:13:04

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.892	3.893	-0.001	69302	994.5	
* 2 Naphthalene-d8	136	4.874	4.875	-0.001	267371	997.0	
* 3 Acenaphthene-d10	164	6.299	6.299	0.000	153043	968.0	
* 4 Phenanthrene-d10	188	7.523	7.520	0.003	266497	984.5	
* 5 Chrysene-d12	240	9.739	9.742	-0.003	279531	974.0	
* 6 Perylene-d12	264	11.232	11.235	-0.003	259346	983.0	
$ 7 2-Fluorophenol	112	2.973	2.976	-0.003	15749	179.2	
$ 8 Phenol-d5	99	3.586	3.589	-0.003	19111	167.7	
$ 9 Nitrobenzene-d5	82	4.307	4.307	0.000	15024	182.6	
$ 10 2-Fluorobiphenyl	172	5.740	5.740	0.000	44995	206.3	
$ 11 2,4,6-Tribromophenol	329	6.946	6.944	0.002	7597	165.2	M
$ 12 Terphenyl-d14	244	8.828	8.828	0.000	56313	199.3	
22 Pyridine	52	2.249	2.249	0.000	29229	825.3	
23 N-Nitrosodimethylamine	42	2.252	2.249	0.003	13529	775.2	
24 Cyclohexanone	55	3.186	3.183	0.003	8562	161.0	
25 Phenol	94	3.597	3.597	0.000	18558	175.6	
26 Aniline	93	3.654	3.654	0.000	24332	218.3	
27 Bis(2-chloroethyl)ether	93	3.682	3.688	-0.006	15330	159.6	
28 2-Chlorophenol	128	3.733	3.739	-0.006	13745	145.2	
29 n-Decane	57	3.751	3.753	-0.003	14937	192.1	
30 1,3-Dichlorobenzene	146	3.847	3.853	-0.006	18830	178.5	
31 1,4-Dichlorobenzene	146	3.901	3.904	-0.003	20861	186.0	
32 Benzyl alcohol	108	3.983	3.983	0.000	8216	142.1	
33 1,2-Dichlorobenzene	146	4.020	4.020	0.000	19788	184.9	
34 2-Methylphenol	108	4.046	4.051	-0.005	15778	180.5	
35 2,2'-oxybis[1-chloropropane]	45	4.080	4.080	0.000	14480	168.7	
36 3 & 4 Methylphenol	108	4.162	4.162	0.000	16087	183.8	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
38 N-Nitrosodi-n-propylamine	70	4.182	4.182	0.000	9775	172.6	
37 Acetophenone	105	4.190	4.191	-0.001	21631	181.2	M
39 Hexachloroethane	117	4.278	4.279	-0.001	7861	200.1	
40 Nitrobenzene	77	4.324	4.321	0.003	15259	195.8	
41 Isophorone	82	4.505	4.503	0.002	30105	197.6	
42 2-Nitrophenol	139	4.568	4.568	0.000	8723	171.6	
43 2,4-Dimethylphenol	107	4.582	4.582	0.000	15215	216.3	
44 Benzoic acid	105	4.613	4.636	-0.023	6948	805.2	
45 Bis(2-chloroethoxy)methane	93	4.659	4.665	-0.006	17526	187.5	
46 2,4-Dichlorophenol	162	4.750	4.750	0.000	13178	181.7	
47 1,2,4-Trichlorobenzene	180	4.823	4.823	0.000	18450	211.2	
48 Naphthalene	128	4.889	4.892	-0.003	51014	180.6	
49 4-Chloroaniline	127	4.926	4.923	0.003	20136	204.9	
50 Hexachlorobutadiene	225	4.985	4.985	0.000	10564	225.4	
51 4-Chloro-3-methylphenol	107	5.297	5.297	0.000	12622	209.8	
52 2-Methylnaphthalene	142	5.448	5.445	0.003	36479	208.4	
53 1-Methylnaphthalene	142	5.530	5.527	0.003	35138	187.9	
54 Hexachlorocyclopentadiene	237	5.573	5.573	0.000	10988	210.8	
55 2,4,6-Trichlorophenol	196	5.666	5.666	0.000	9508	191.5	
56 2,3-Dichlorobenzenamine	161	5.672	5.672	0.000	20280	218.7	
57 2,4,5-Trichlorophenol	196	5.695	5.695	0.000	10426	180.4	
58 1,1'-Biphenyl	154	5.822	5.823	-0.001	43264	192.9	
59 2-Chloronaphthalene	162	5.842	5.842	0.000	34095	190.4	
60 2-Nitroaniline	65	5.919	5.919	0.000	5248	181.5	
62 Dimethyl phthalate	163	6.064	6.064	0.000	36250	203.4	
63 2,6-Dinitrotoluene	165	6.112	6.112	0.000	7429	162.9	
64 Acenaphthylene	152	6.183	6.186	-0.003	56444	208.5	
65 3-Nitroaniline	138	6.248	6.251	-0.003	6613	183.2	
66 Acenaphthene	153	6.325	6.325	0.000	35111	191.8	
67 2,4-Dinitrophenol	184	6.339	6.336	0.003	8512	817.8	
68 4-Nitrophenol	109	6.373	6.373	0.000	8505	818.3	M
69 2,4-Dinitrotoluene	165	6.444	6.444	0.000	8050	155.2	
70 Dibenzofuran	168	6.467	6.467	0.000	50983	205.8	
71 2,3,5,6-Tetrachlorophenol	232	6.526	6.526	0.000	8212	179.4	
72 2,3,4,6-Tetrachlorophenol	232	6.560	6.560	0.000	7976	168.6	
73 Diethyl phthalate	149	6.640	6.643	-0.003	34449	195.6	
76 4-Chlorophenyl phenyl ether	204	6.745	6.745	0.000	18414	200.7	
75 Fluorene	166	6.751	6.751	0.000	42257	208.5	
77 4-Nitroaniline	138	6.751	6.756	-0.005	8667	277.9	
78 4,6-Dinitro-2-methylphenol	198	6.776	6.776	0.000	19653	818.8	
79 N-Nitrosodiphenylamine	169	6.839	6.839	0.000	29729	183.3	
80 Azobenzene	77	6.873	6.873	0.000	31154	204.2	
81 4-Bromophenyl phenyl ether	248	7.137	7.148	-0.011	836	52.3	
82 Hexachlorobenzene	284	7.202	7.199	0.003	17268	210.4	
83 Pentachlorophenol	266	7.358	7.358	0.000	5509	199.5	
84 n-Octadecane	43	7.415	7.415	0.000	9714	224.1	
86 Phenanthrene	178	7.540	7.543	-0.002	55783	194.1	
87 Anthracene	178	7.582	7.582	0.000	56656	203.4	
89 Carbazole	167	7.710	7.707	0.003	52076	217.2	
90 Di-n-butyl phthalate	149	7.988	7.988	0.000	61678	185.0	
95 Fluoranthene	202	8.522	8.522	0.000	57459	191.2	
94 Benzidine	184	8.624	8.624	0.000	19799	307.9	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
93 Pyrene	202	8.709	8.709	0.000	65823	191.4	
97 Butyl benzyl phthalate	149	9.223	9.223	0.000	25908	198.1	
98 3,3'-Dichlorobenzidine	252	9.699	9.700	-0.001	39564	452.1	
99 Benzo[a]anthracene	228	9.731	9.731	0.000	57025	184.1	
101 Bis(2-ethylhexyl) phthalate	149	9.731	9.731	0.000	38452	193.7	
100 Chrysene	228	9.765	9.765	0.000	63462	193.8	
102 Di-n-octyl phthalate	149	10.412	10.412	0.000	52421	185.9	M
103 Benzo[b]fluoranthene	252	10.838	10.841	-0.003	66129	209.2	
105 Benzofluoranthene	252	10.838	10.869	-0.031	135118	413.0	M
104 Benzo[k]fluoranthene	252	10.869	10.869	0.000	67176	201.1	M
106 Benzo[a]pyrene	252	11.173	11.175	-0.002	62971	200.6	
107 Indeno[1,2,3-cd]pyrene	276	12.507	12.518	-0.012	72701	197.2	M
108 Dibenz(a,h)anthracene	278	12.529	12.529	0.000	59183	194.5	
109 Benzo[g,h,i]perylene	276	12.875	12.878	-0.003	64053	205.3	

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 26-May-2010 16:13:04 Chrom Revision: 1.1 20-Apr-2010 06:13:18

Data File: \\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15086.D

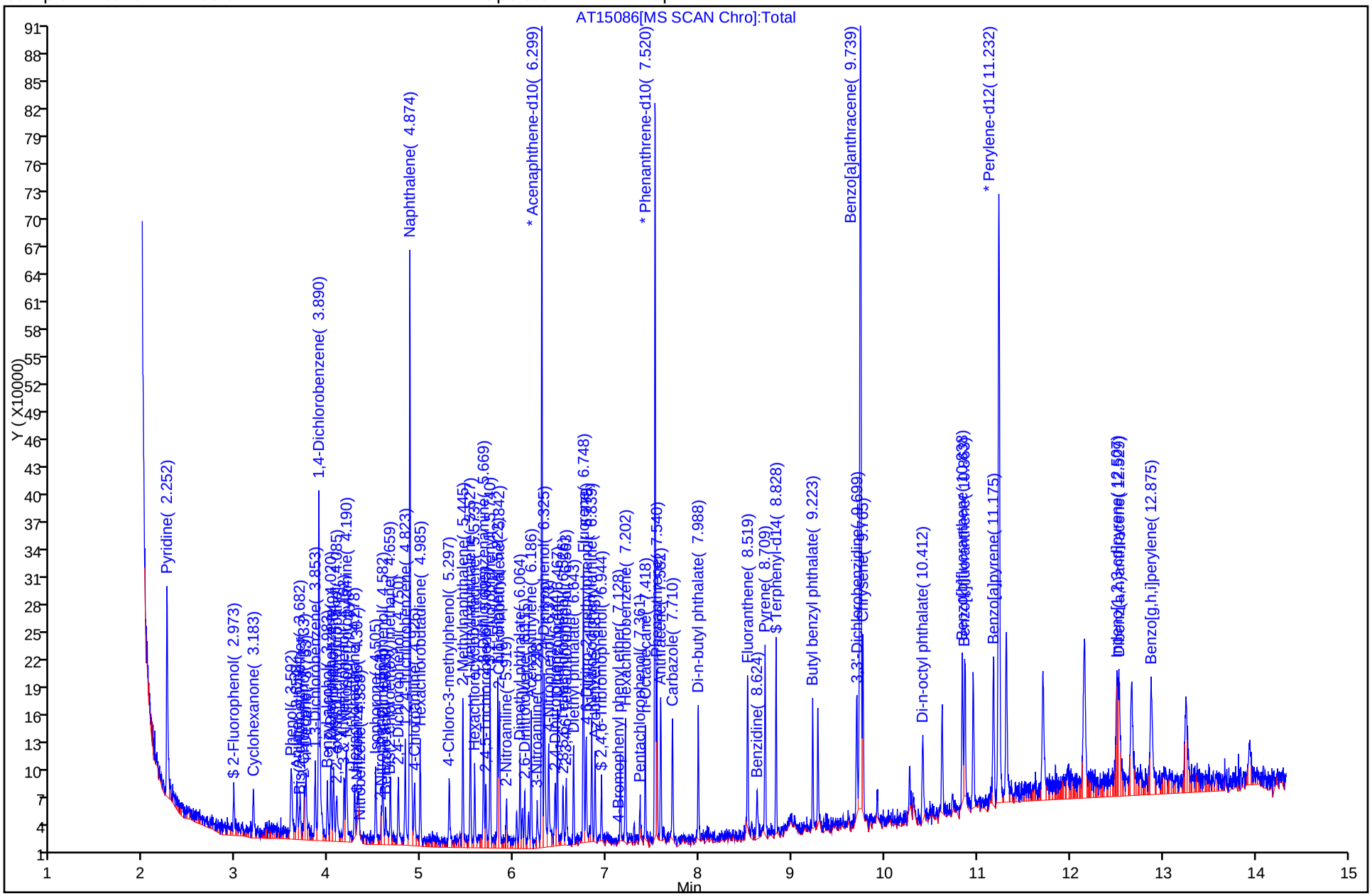
Inj Date: 11-May-2010 16:36:30 Limit Group: 8270C Standard

Lims Batch ID: 63269 Lims Sample ID: 8

Client ID: Instrument: TAC002

Sample Info: ic std 200 ppb

Sample Amount: 1.00 ul Operator: ap



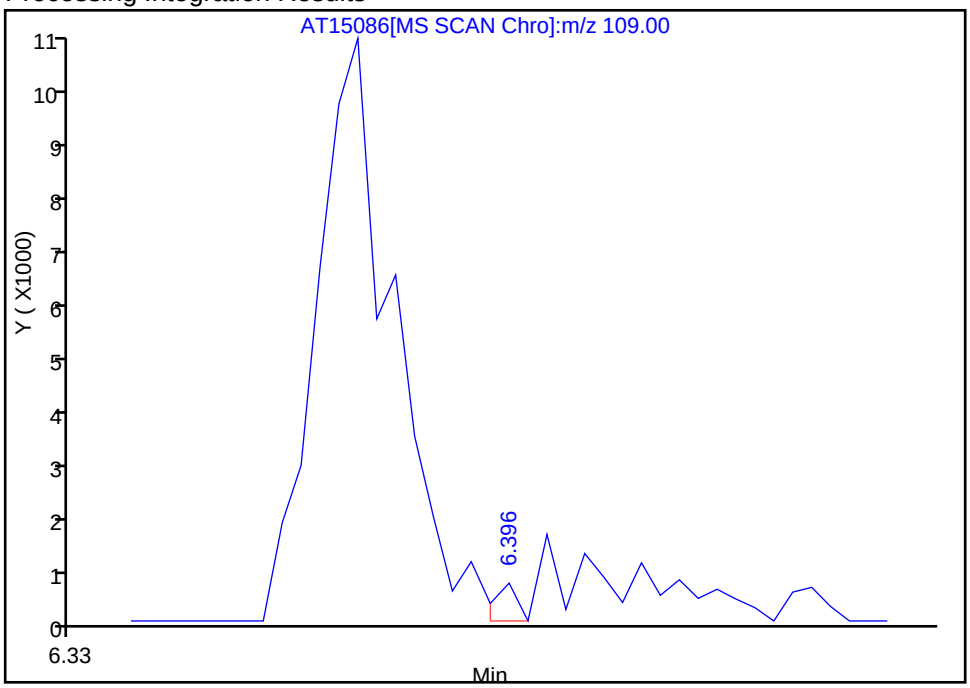
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15086.D		
Inj Date:	11-May-2010 16:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	8
Client ID:		Instrument:	TAC002
Sample Info:	ic std 200 ppb		
Sample Amount:	1.00 ul	Operator:	ap

68 4-Nitrophenol, Number: 1, m/z: 109 Type: quant, RT: 6.37

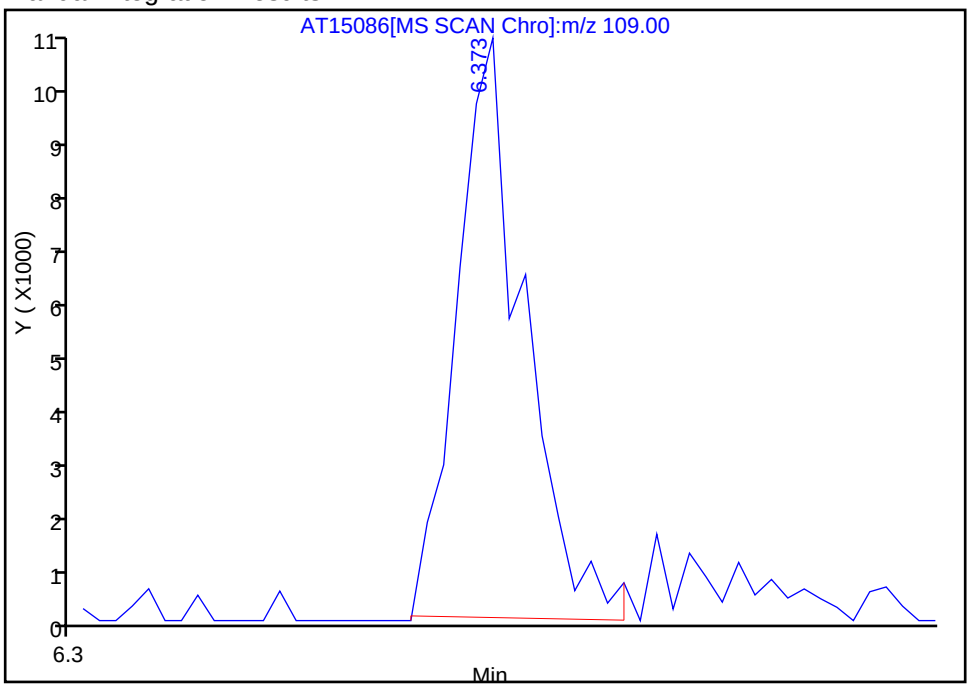
Processing Integration Results

RT: 6.40
Response: 144
Amount: 184.9552



Manual Integration Results

RT: 6.37
Response: 8505
Amount: 818.3207



Reviewer: phama, 11-May-2010 18:30:21
Audit Action: Manually Integrated
Audit Reason: Wrong peak

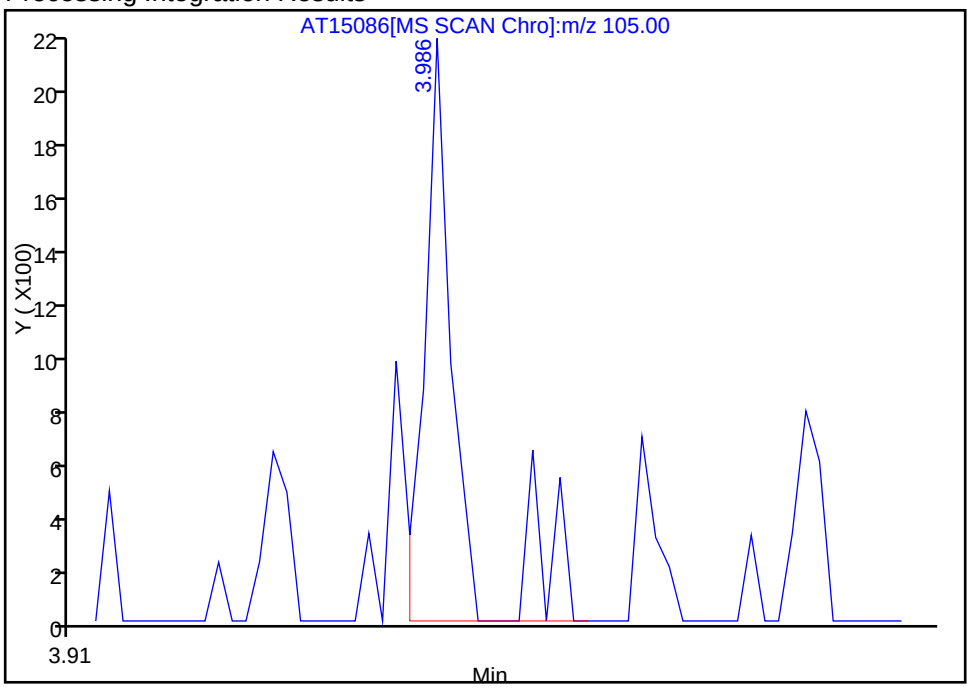
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15086.D		
Inj Date:	11-May-2010 16:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	8
Client ID:		Instrument:	TAC002
Sample Info:	ic std 200 ppb		
Sample Amount:	1.00 ul	Operator:	ap

37 Acetophenone, Number: 1, m/z: 105 Type: quant, RT: 4.19

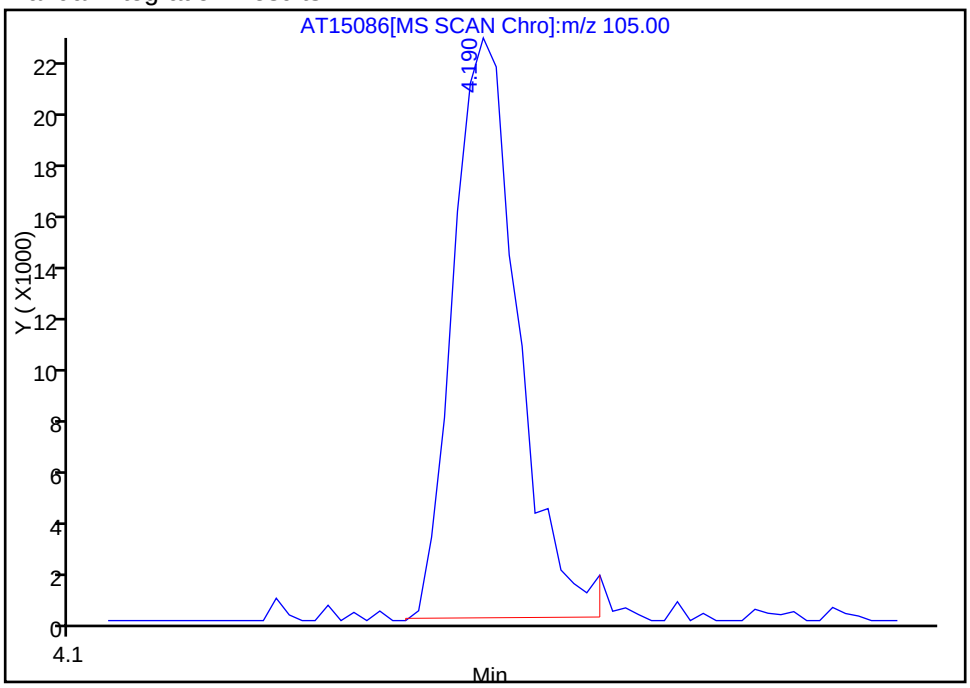
Processing Integration Results

RT: 3.99
Response: 974
Amount: 6.969606



Manual Integration Results

RT: 4.19
Response: 21631
Amount: 181.1778



Reviewer: phama, 11-May-2010 18:30:21
Audit Action: Manually Integrated
Audit Reason: Wrong peak

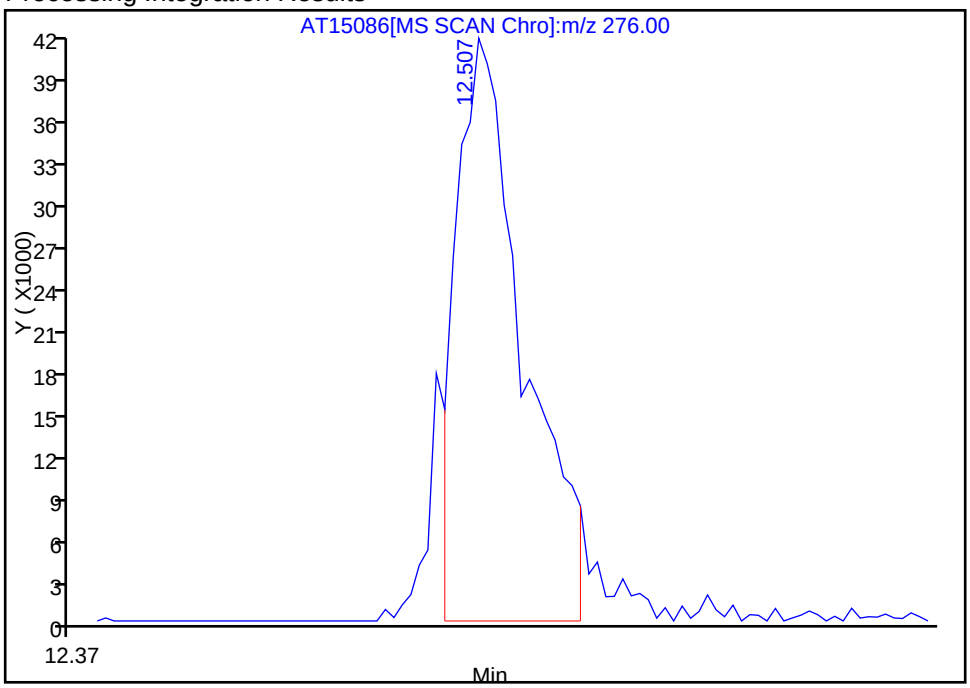
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15086.D		
Inj Date:	11-May-2010 16:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	8
Client ID:		Instrument:	TAC002
Sample Info:	ic std 200 ppb		
Sample Amount:	1.00 ul	Operator:	ap

107 Indeno[1,2,3-cd]pyrene, Number: 1, m/z: 276 Type: quant, RT: 12.52

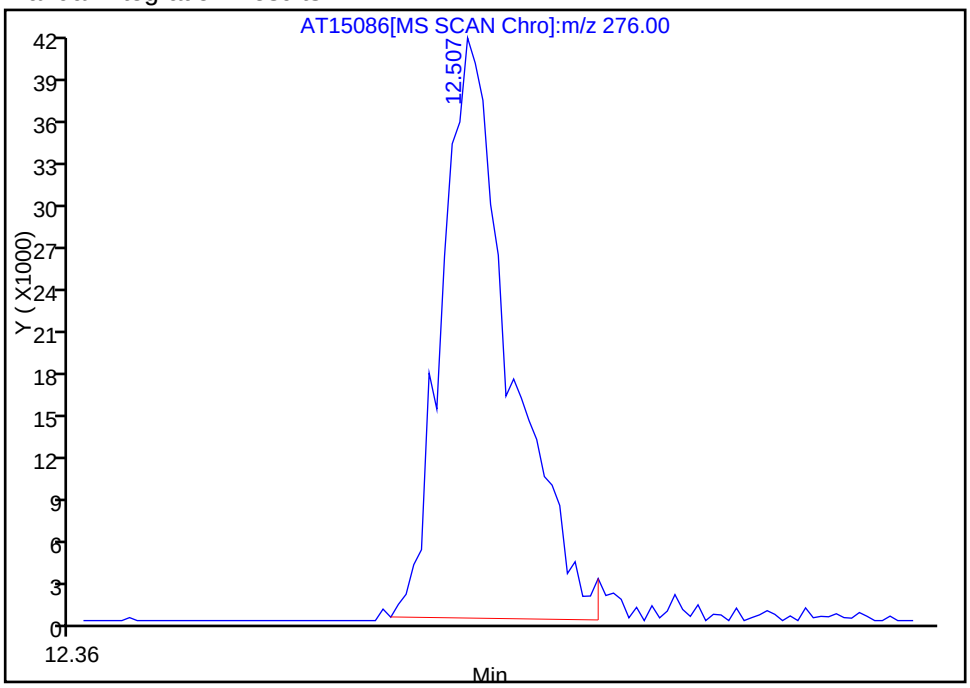
Processing Integration Results

RT: 12.51
Response: 64220
Amount: 147.8325



Manual Integration Results

RT: 12.51
Response: 72701
Amount: 197.1568



Reviewer: phama, 11-May-2010 18:30:21
Audit Action: Manually Integrated
Audit Reason: Other

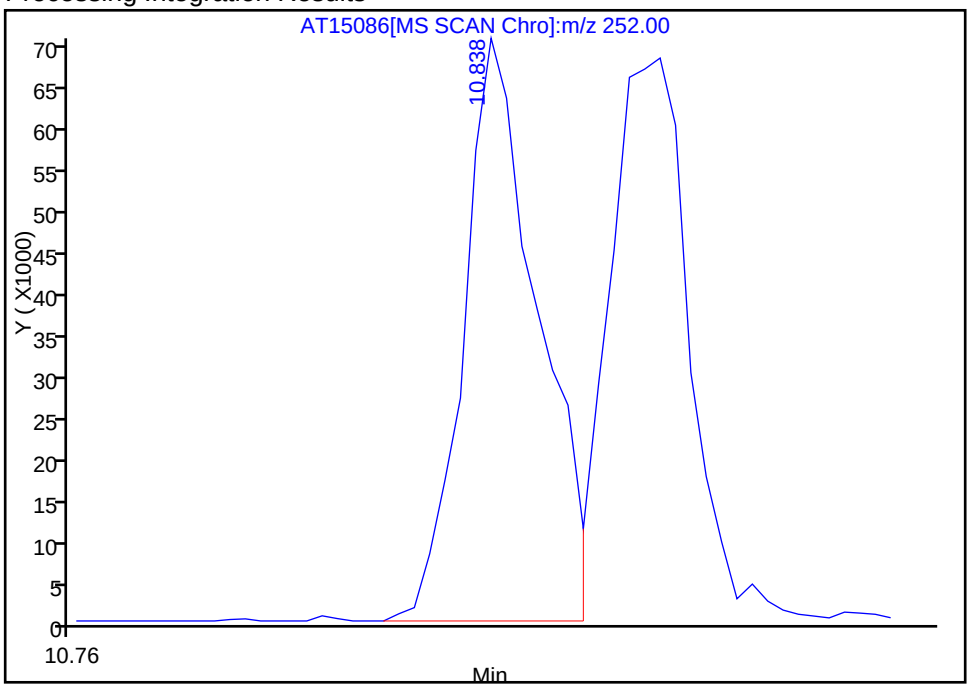
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15086.D		
Inj Date:	11-May-2010 16:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	8
Client ID:		Instrument:	TAC002
Sample Info:	ic std 200 ppb		
Sample Amount:	1.00 ul	Operator:	ap

104 Benzo[k]fluoranthene, Number: 1, m/z: 252 Type: quant, RT: 10.87

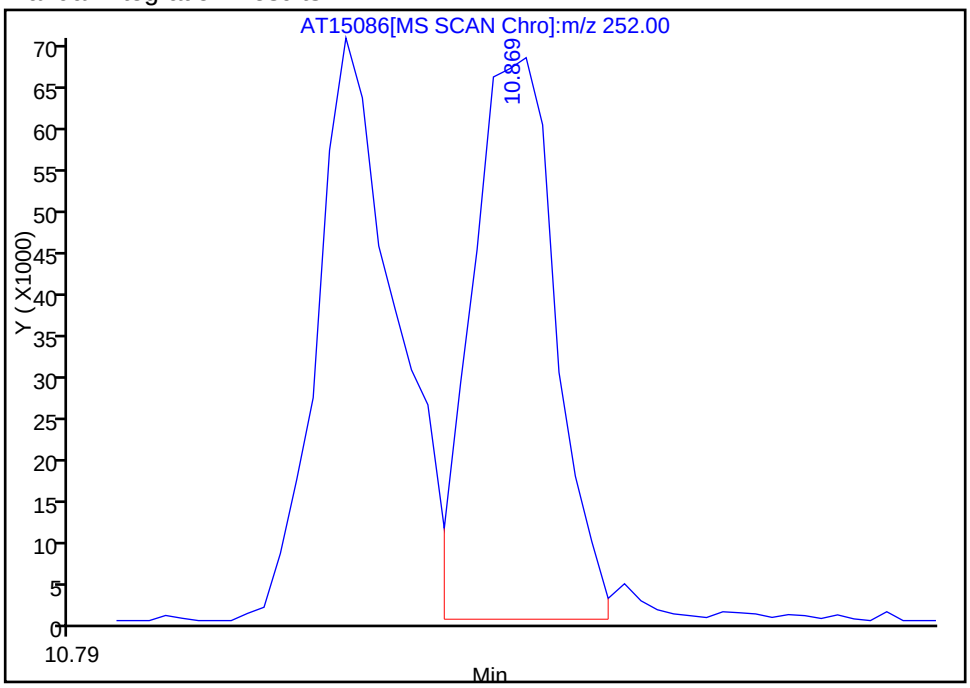
Processing Integration Results

RT: 10.84
Response: 66129
Amount: 154.6217



Manual Integration Results

RT: 10.87
Response: 67176
Amount: 201.1223



Reviewer: phama, 11-May-2010 18:30:21
Audit Action: Manually Integrated
Audit Reason: Other

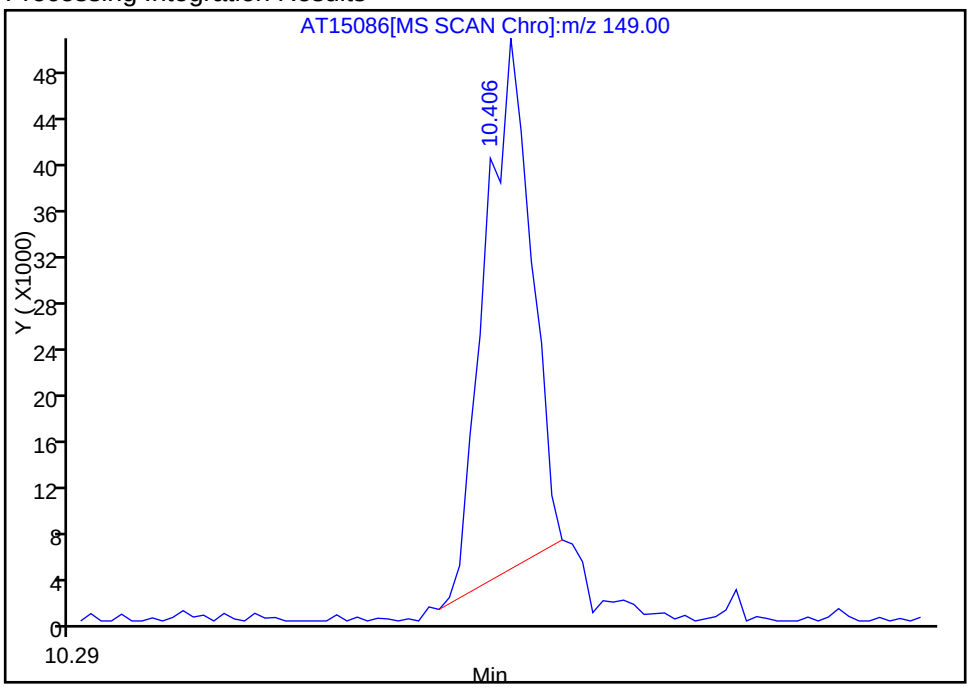
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15086.D		
Inj Date:	11-May-2010 16:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	8
Client ID:		Instrument:	TAC002
Sample Info:	ic std 200 ppb		
Sample Amount:	1.00 ul	Operator:	ap

102 Di-n-octyl phthalate, Number: 1, m/z: 149 Type: quant, RT: 10.41

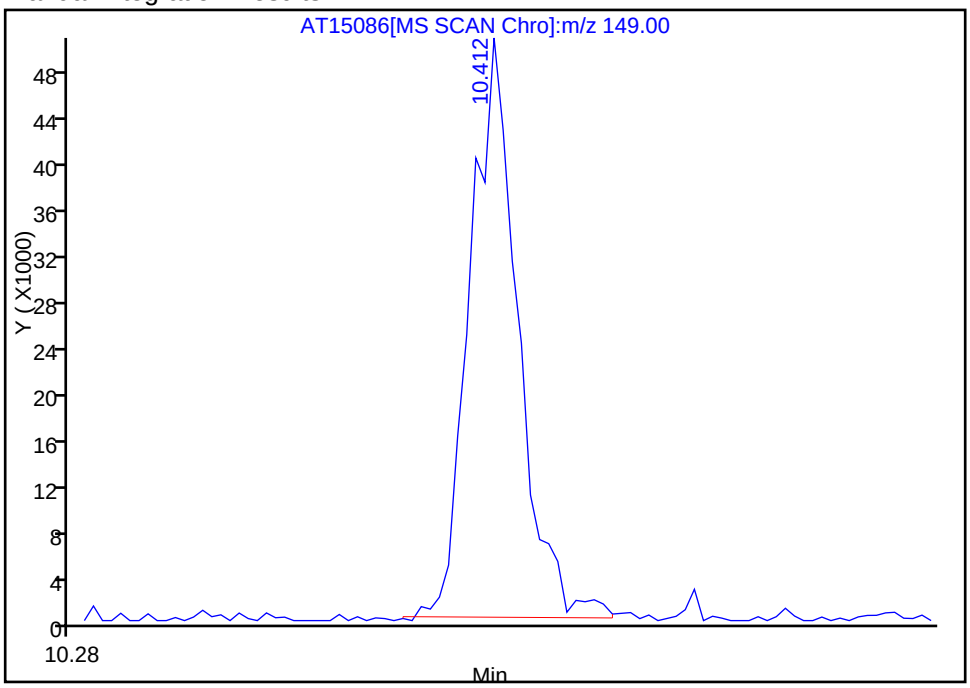
Processing Integration Results

RT: 10.41
Response: 41101
Amount: 139.5417



Manual Integration Results

RT: 10.41
Response: 52421
Amount: 185.9091



Reviewer: phama, 11-May-2010 18:30:21
Audit Action: Manually Integrated
Audit Reason: Baseline

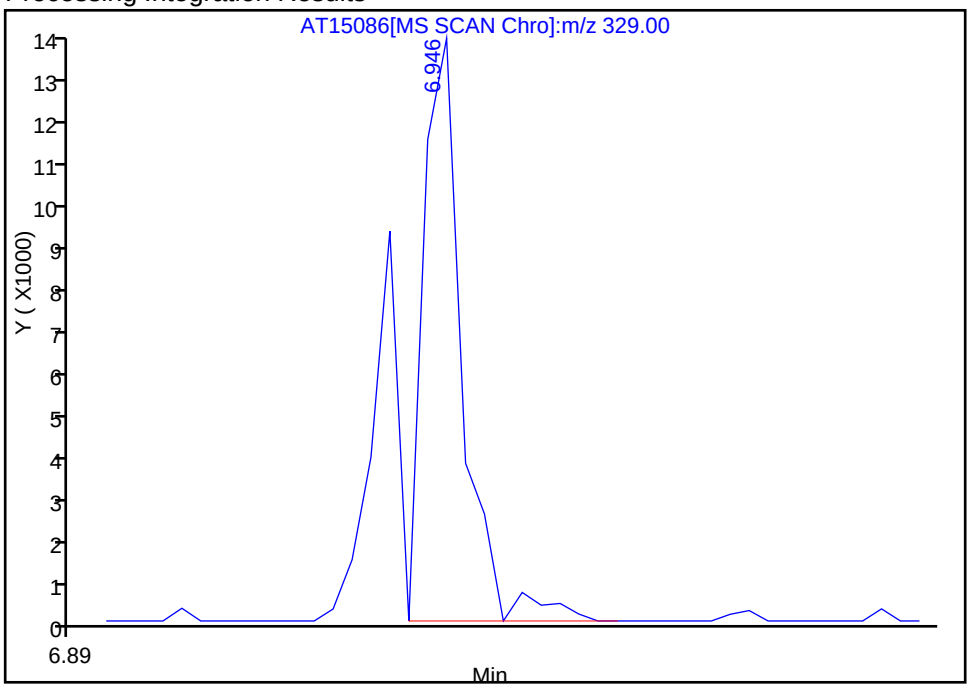
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15086.D		
Inj Date:	11-May-2010 16:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	8
Client ID:		Instrument:	TAC002
Sample Info:	ic std 200 ppb		
Sample Amount:	1.00 ul	Operator:	ap

$ 11 2,4,6-Tribromophenol, Number: 1, m/z: 329 Type: quant, RT: 6.94

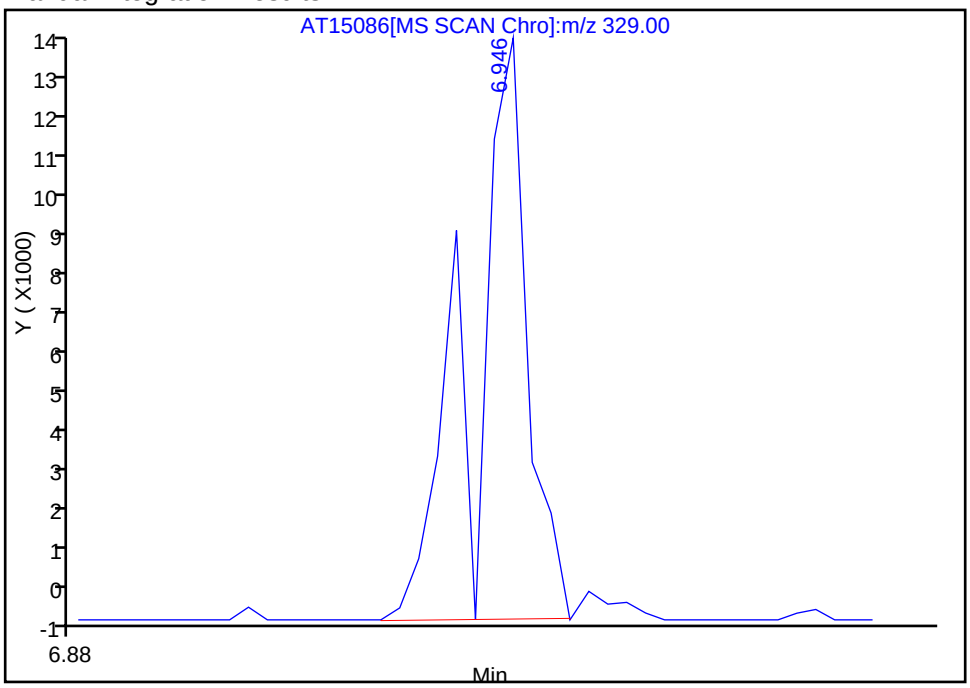
Processing Integration Results

RT: 6.95
Response: 5438
Amount: 114.2232



Manual Integration Results

RT: 6.95
Response: 7597
Amount: 165.1746



Reviewer: phama, 11-May-2010 18:30:21
Audit Action: Manually Integrated
Audit Reason: Other

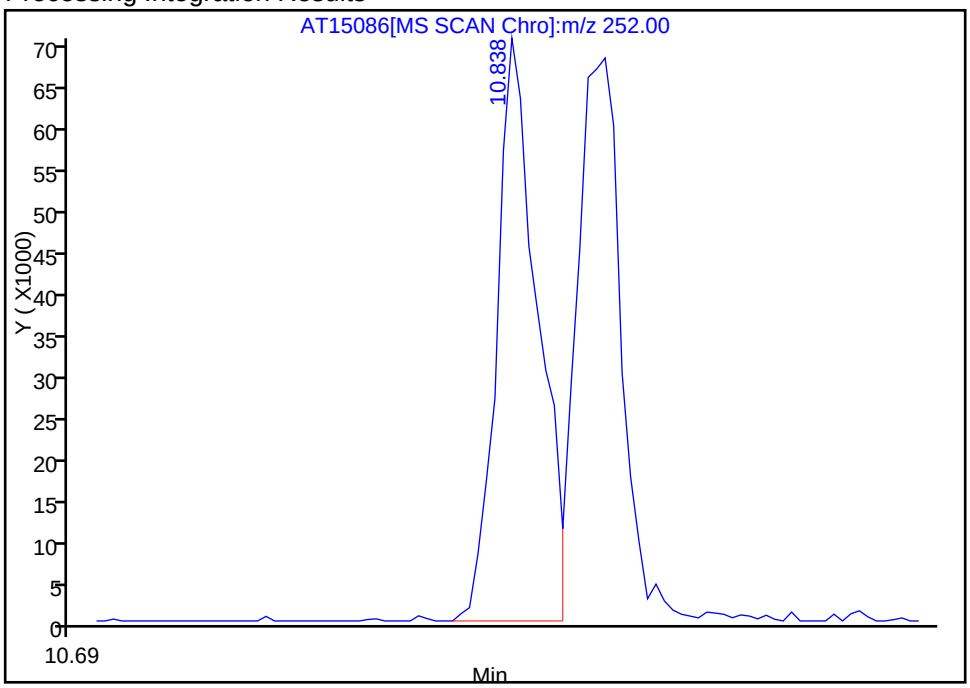
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15086.D		
Inj Date:	11-May-2010 16:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	8
Client ID:		Instrument:	TAC002
Sample Info:	ic std 200 ppb		
Sample Amount:	1.00 ul	Operator:	ap

105 Benzofluoranthene, Number: 1, m/z: 252 Type: quant, RT: 10.87

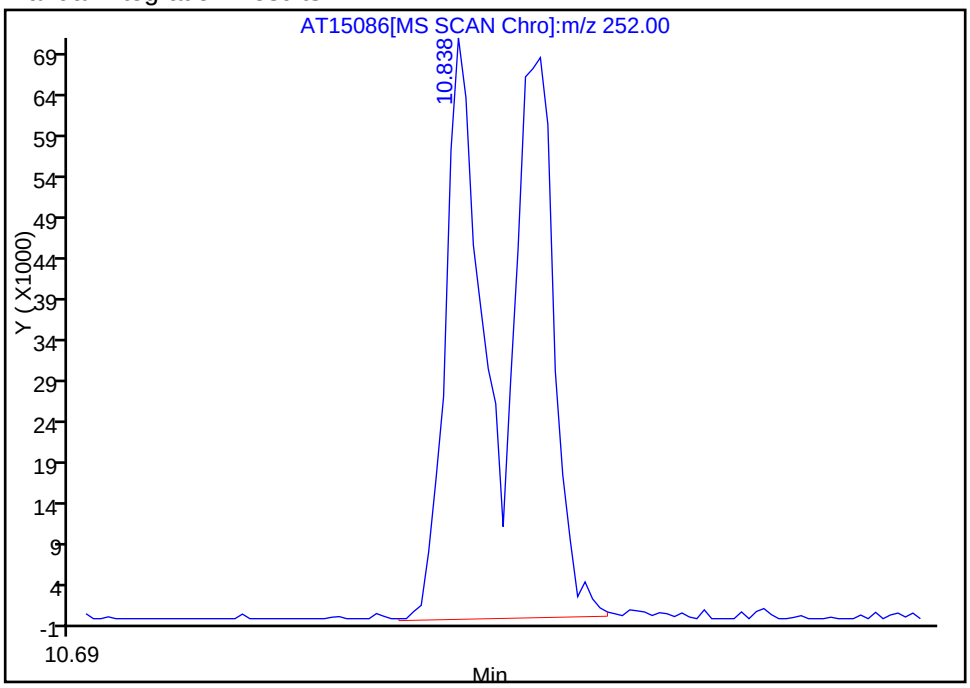
Processing Integration Results

RT: 10.84
Response: 66129
Amount: 245.1042



Manual Integration Results

RT: 10.84
Response: 135118
Amount: 412.9925



Reviewer: phama, 11-May-2010 18:30:21
Audit Action: Manually Integrated
Audit Reason: Other

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15087.D		
Lims ID:	ic std 500 ppb	Client ID:	
Inject. Date:	11-May-2010 16:56:30	Dil. Factor:	1.0000
Sample Type:	IC, ICal Standard	Calib Level:	5
Sample ID:	ic std 500 ppb		
Misc. Info.:	580-0008740-009		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	7
Lims Batch ID:	63269	Lims Sample ID:	9
Sublist:	chrom-8270C TAC002*sub8		
Detector:	MS SCAN		
Method:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\8270C TAC002.m		
Last Update:	26-May-2010 16:13:07	Calib Date:	11-May-2010 17:36:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15089.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		
Reviewed By:	phama	Date:	11-May-2010 18:31:46
Reviewed By:	phama	Date:	19-May-2010 10:00:03
Reviewed By:	phama	Date:	26-May-2010 16:12:27
Reviewed By:	phama	Date:	26-May-2010 16:13:07

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.892	3.893	-0.001	68063	994.5	
* 2 Naphthalene-d8	136	4.874	4.875	-0.001	292221	997.0	
* 3 Acenaphthene-d10	164	6.299	6.299	0.000	163877	968.0	
* 4 Phenanthrene-d10	188	7.520	7.520	0.000	277211	984.5	
* 5 Chrysene-d12	240	9.739	9.742	-0.003	305381	974.0	
* 6 Perylene-d12	264	11.232	11.235	-0.003	290799	983.0	
$ 7 2-Fluorophenol	112	2.979	2.976	0.002	43588	504.9	
$ 8 Phenol-d5	99	3.592	3.589	0.003	58211	520.2	
$ 9 Nitrobenzene-d5	82	4.304	4.307	-0.003	44463	494.5	
$ 10 2-Fluorobiphenyl	172	5.740	5.740	0.000	115416	494.1	
$ 11 2,4,6-Tribromophenol	329	6.941	6.944	-0.003	21792	455.5	
$ 12 Terphenyl-d14	244	8.828	8.828	0.000	152159	493.0	
22 Pyridine	52	2.255	2.249	0.006	96831	2498.5	
23 N-Nitrosodimethylamine	42	2.252	2.249	0.003	42194	2452.5	
24 Cyclohexanone	55	3.186	3.183	0.003	23887	457.4	
25 Phenol	94	3.600	3.597	0.003	51934	500.2	
26 Aniline	93	3.657	3.654	0.003	57986	529.6	
27 Bis(2-chloroethyl)ether	93	3.688	3.688	0.000	42296	425.8	
28 2-Chlorophenol	128	3.739	3.739	0.000	48731	524.0	
29 n-Decane	57	3.753	3.753	0.000	40364	528.5	
30 1,3-Dichlorobenzene	146	3.853	3.853	0.000	50844	490.6	
31 1,4-Dichlorobenzene	146	3.904	3.904	0.000	58815	533.8	
32 Benzyl alcohol	108	3.980	3.983	-0.003	27941	472.1	
33 1,2-Dichlorobenzene	146	4.020	4.020	0.000	52356	498.2	
34 2-Methylphenol	108	4.049	4.051	-0.002	44542	518.7	
35 2,2'-oxybis[1-chloropropane]	45	4.083	4.080	0.003	39112	463.9	
36 3 & 4 Methylphenol	108	4.162	4.162	0.000	42651	496.1	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
38 N-Nitrosodi-n-propylamine	70	4.185	4.182	0.003	28549	513.1	
37 Acetophenone	105	4.190	4.191	-0.001	56981	486.0	
39 Hexachloroethane	117	4.276	4.279	-0.003	18092	468.9	
40 Nitrobenzene	77	4.321	4.321	0.000	40494	475.4	
41 Isophorone	82	4.505	4.503	0.002	75806	455.3	
42 2-Nitrophenol	139	4.568	4.568	0.000	26754	457.1	
43 2,4-Dimethylphenol	107	4.582	4.582	0.000	38783	504.5	
44 Benzoic acid	105	4.619	4.636	-0.017	41669	2020.0	
45 Bis(2-chloroethoxy)methane	93	4.662	4.665	-0.003	52814	517.0	
46 2,4-Dichlorophenol	162	4.750	4.750	0.000	39656	500.2	
47 1,2,4-Trichlorobenzene	180	4.826	4.823	0.003	50117	525.0	
48 Naphthalene	128	4.891	4.892	-0.001	146247	473.8	
49 4-Chloroaniline	127	4.926	4.923	0.003	51772	498.4	
50 Hexachlorobutadiene	225	4.985	4.985	0.000	25270	484.8	
51 4-Chloro-3-methylphenol	107	5.300	5.297	0.003	31515	479.3	
52 2-Methylnaphthalene	142	5.445	5.445	0.000	93400	488.1	
53 1-Methylnaphthalene	142	5.527	5.527	0.000	96639	472.9	
54 Hexachlorocyclopentadiene	237	5.576	5.573	0.003	26043	447.4	
55 2,4,6-Trichlorophenol	196	5.669	5.666	0.003	27988	526.5	
56 2,3-Dichlorobenzenamine	161	5.672	5.672	0.000	52328	527.1	
57 2,4,5-Trichlorophenol	196	5.698	5.695	0.003	28338	457.8	
58 1,1'-Biphenyl	154	5.822	5.823	-0.001	122784	511.3	
59 2-Chloronaphthalene	162	5.842	5.842	0.000	93517	487.8	
60 2-Nitroaniline	65	5.916	5.919	-0.003	14557	461.5	
62 Dimethyl phthalate	163	6.064	6.064	0.000	99088	519.2	
63 2,6-Dinitrotoluene	165	6.115	6.112	0.003	22188	440.0	
64 Acenaphthylene	152	6.186	6.186	0.000	142503	491.5	
65 3-Nitroaniline	138	6.251	6.251	0.000	20820	554.6	
66 Acenaphthene	153	6.325	6.325	0.000	96991	494.7	
67 2,4-Dinitrophenol	184	6.336	6.336	0.000	39086	2455.1	
68 4-Nitrophenol	109	6.373	6.373	0.000	32528	2394.3	
69 2,4-Dinitrotoluene	165	6.444	6.444	0.000	26888	451.2	
70 Dibenzofuran	168	6.467	6.467	0.000	134730	507.8	
71 2,3,5,6-Tetrachlorophenol	232	6.523	6.526	-0.003	25638	488.2	
72 2,3,4,6-Tetrachlorophenol	232	6.560	6.560	0.000	25989	513.2	
73 Diethyl phthalate	149	6.643	6.643	0.000	89103	472.4	
76 4-Chlorophenyl phenyl ether	204	6.742	6.745	-0.003	51011	519.2	
75 Fluorene	166	6.748	6.751	-0.003	103941	479.0	
77 4-Nitroaniline	138	6.748	6.756	-0.008	17402	633.6	
78 4,6-Dinitro-2-methylphenol	198	6.779	6.776	0.003	64347	2293.1	
79 N-Nitrosodiphenylamine	169	6.836	6.839	-0.003	93745	555.8	
80 Azobenzene	77	6.873	6.873	0.000	80989	510.4	
81 4-Bromophenyl phenyl ether	248	7.148	7.148	0.000	32757	494.4	
82 Hexachlorobenzene	284	7.202	7.199	0.003	34161	391.4	
83 Pentachlorophenol	266	7.361	7.358	0.003	18175	464.0	
84 n-Octadecane	43	7.415	7.415	0.000	20038	444.5	
86 Phenanthrene	178	7.540	7.543	-0.002	146636	490.6	
87 Anthracene	178	7.582	7.582	0.000	144814	499.8	
89 Carbazole	167	7.710	7.707	0.003	134585	539.7	
90 Di-n-butyl phthalate	149	7.988	7.988	0.000	156396	450.9	
95 Fluoranthene	202	8.522	8.522	0.000	157638	504.2	
94 Benzidine	184	8.624	8.624	0.000	58047	1462.2	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
93 Pyrene	202	8.709	8.709	0.000	180736	505.3	
97 Butyl benzyl phthalate	149	9.223	9.223	0.000	66477	465.2	
98 3,3'-Dichlorobenzidine	252	9.699	9.700	-0.001	111744	1168.7	
99 Benzo[a]anthracene	228	9.731	9.731	0.000	163753	484.0	
101 Bis(2-ethylhexyl) phthalate	149	9.731	9.731	0.000	100680	464.3	
100 Chrysene	228	9.768	9.765	0.003	167022	466.9	
102 Di-n-octyl phthalate	149	10.412	10.412	0.000	150823	477.0	
103 Benzo[b]fluoranthene	252	10.840	10.841	-0.001	176674	498.6	
105 Benzofluoranthene	252	10.840	10.869	-0.029	357581	974.7	M
104 Benzo[k]fluoranthene	252	10.866	10.869	-0.003	179860	480.2	
106 Benzo[a]pyrene	252	11.173	11.175	-0.002	168066	477.5	
107 Indeno[1,2,3-cd]pyrene	276	12.501	12.518	-0.017	204633	494.9	M
108 Dibenz(a,h)anthracene	278	12.529	12.529	0.000	169903	498.0	
109 Benzo[g,h,i]perylene	276	12.881	12.878	0.003	172709	493.6	

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 26-May-2010 16:13:08 Chrom Revision: 1.1 20-Apr-2010 06:13:18

Data File: \\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15087.D

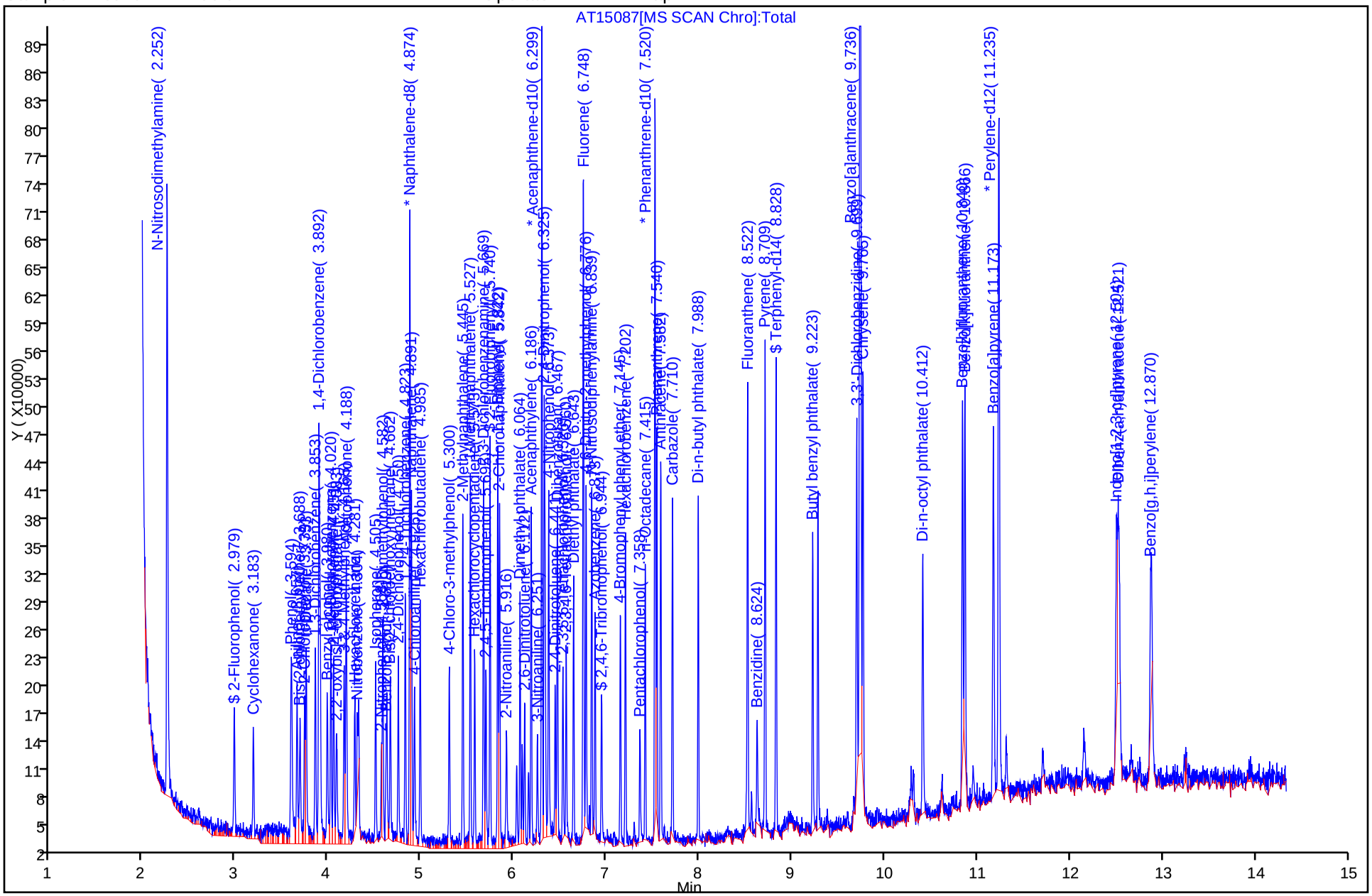
Inj Date: 11-May-2010 16:56:30 Limit Group: 8270C Standard

Lims Batch ID: 63269 Lims Sample ID: 9

Client ID: Instrument: TAC002

Sample Info: ic std 500 ppb

Sample Amount: 1.00 ul Operator: ap



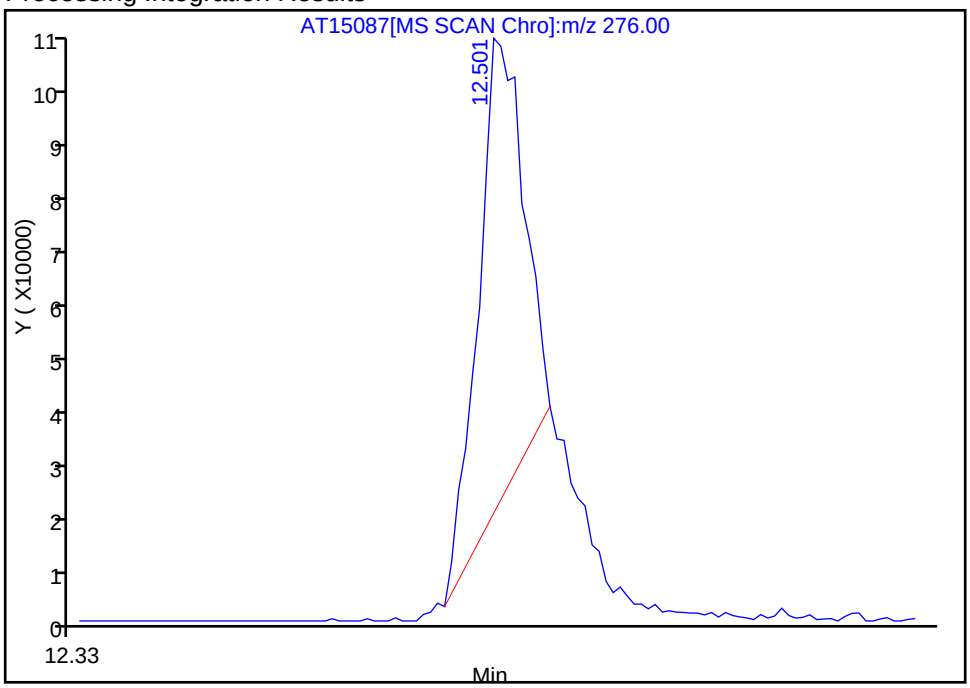
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15087.D		
Inj Date:	11-May-2010 16:56:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	9
Client ID:		Instrument:	TAC002
Sample Info:	ic std 500 ppb		
Sample Amount:	1.00 ul	Operator:	ap

107 Indeno[1,2,3-cd]pyrene, Number: 1, m/z: 276 Type: quant, RT: 12.52

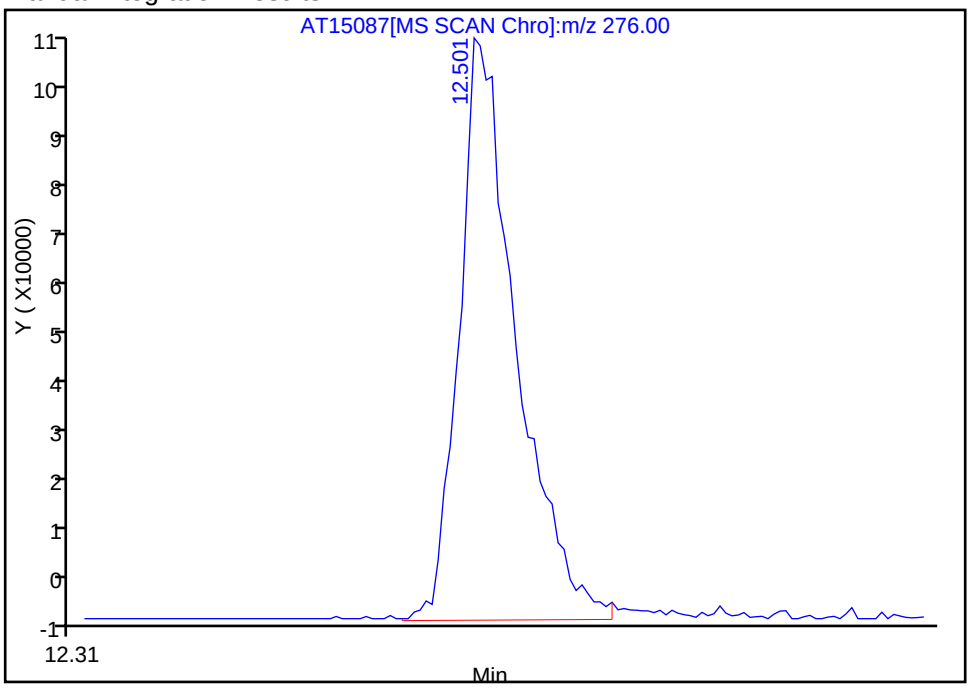
Processing Integration Results

RT: 12.50
Response: 109638
Amount: 235.7747



Manual Integration Results

RT: 12.50
Response: 204633
Amount: 494.9185



Reviewer: phama, 11-May-2010 18:31:46
Audit Action: Manually Integrated
Audit Reason: Baseline

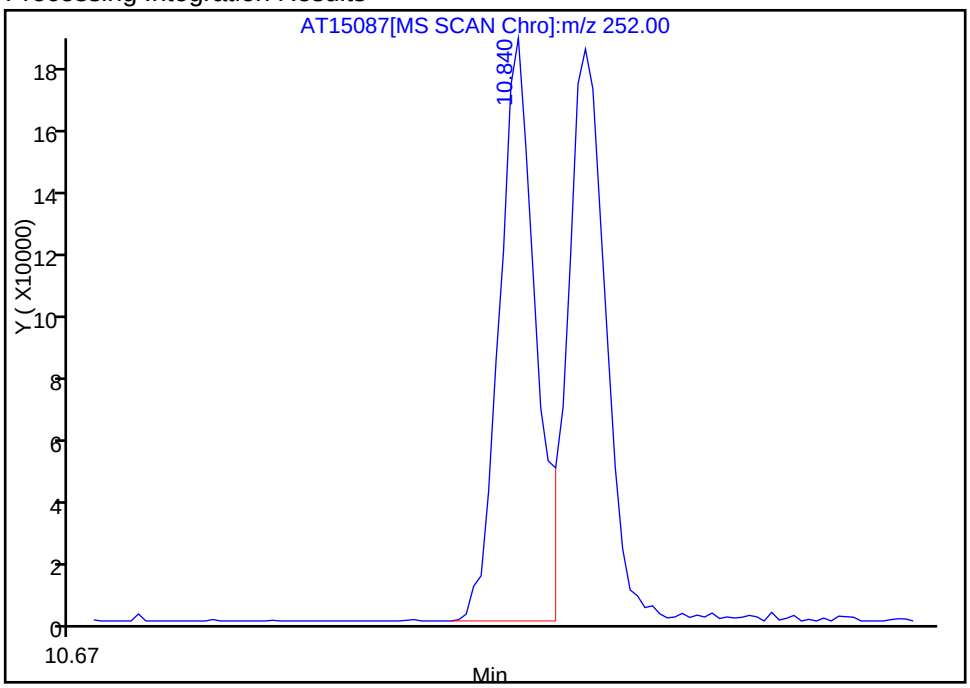
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15087.D		
Inj Date:	11-May-2010 16:56:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	9
Client ID:		Instrument:	TAC002
Sample Info:	ic std 500 ppb		
Sample Amount:	1.00 ul	Operator:	ap

105 Benzofluoranthene, Number: 1, m/z: 252 Type: quant, RT: 10.87

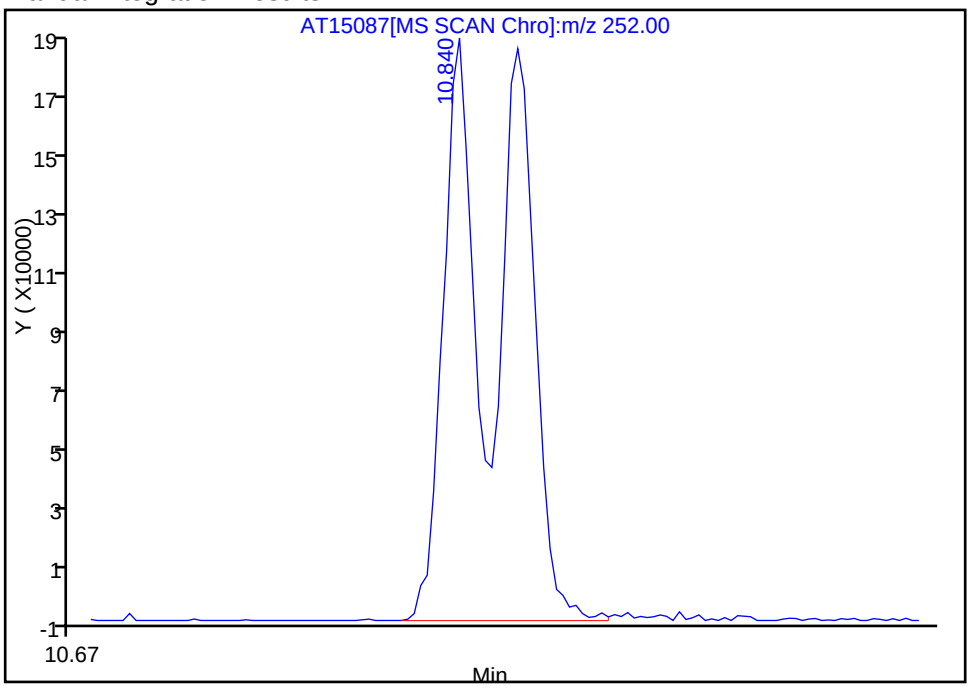
Processing Integration Results

RT: 10.84
Response: 176674
Amount: 403.0386



Manual Integration Results

RT: 10.84
Response: 357581
Amount: 974.7429



Reviewer: phama, 11-May-2010 18:31:46
Audit Action: Manually Integrated
Audit Reason: Other

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Lims ID:	ic std 1000 ppb	Client ID:	
Inject. Date:	11-May-2010 17:16:30	Dil. Factor:	1.0000
Sample Type:	ICIS, ICal ISTD Check	Calib Level:	6
Sample ID:	ic std 1000 ppb		
Misc. Info.:	580-0008740-010		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	8
Lims Batch ID:	63269	Lims Sample ID:	10
Sublist:	chrom-8270C TAC002*sub8		
Detector:	MS SCAN		

Method:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\8270C TAC002.m		
Last Update:	26-May-2010 16:13:12	Calib Date:	11-May-2010 17:36:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15089.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		

Reviewed By:	phama	Date:	11-May-2010 18:07:06
Reviewed By:	phama	Date:	11-May-2010 18:07:06
Reviewed By:	phama	Date:	11-May-2010 18:08:09
Reviewed By:	phama	Date:	11-May-2010 18:08:09
Reviewed By:	phama	Date:	11-May-2010 18:11:42
Reviewed By:	phama	Date:	11-May-2010 18:11:42
Reviewed By:	phama	Date:	11-May-2010 18:34:18
Reviewed By:	phama	Date:	11-May-2010 18:34:18
Reviewed By:	phama	Date:	11-May-2010 19:21:51
Reviewed By:	phama	Date:	19-May-2010 09:59:15
Reviewed By:	phama	Date:	19-May-2010 10:00:10
Reviewed By:	phama	Date:	26-May-2010 16:12:31
Reviewed By:	phama	Date:	26-May-2010 16:13:12

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.893	3.893	0.000	62479	994.5	
* 2 Naphthalene-d8	136	4.875	4.875	0.000	271099	997.0	
* 3 Acenaphthene-d10	164	6.299	6.299	0.000	154337	968.0	
* 4 Phenanthrene-d10	188	7.520	7.520	0.000	272493	984.5	
* 5 Chrysene-d12	240	9.742	9.742	0.000	304526	974.0	
* 6 Perylene-d12	264	11.235	11.235	0.000	277520	983.0	
$ 7 2-Fluorophenol	112	2.976	2.976	0.000	88076	1111.4	
$ 8 Phenol-d5	99	3.589	3.589	0.000	111750	1087.9	M
$ 9 Nitrobenzene-d5	82	4.307	4.307	0.000	85678	1027.1	
$ 10 2-Fluorobiphenyl	172	5.740	5.740	0.000	234314	1065.1	
$ 11 2,4,6-Tribromophenol	329	6.944	6.944	0.000	50972	1083.9	
$ 12 Terphenyl-d14	244	8.828	8.828	0.000	294602	957.2	
22 Pyridine	52	2.249	2.249	0.000	191264	5237.8	
23 N-Nitrosodimethylamine	42	2.249	2.249	0.000	79772	5046.7	
24 Cyclohexanone	55	3.183	3.183	0.000	50911	1061.9	
25 Phenol	94	3.597	3.597	0.000	103284	1083.7	
26 Aniline	93	3.654	3.654	0.000	97599	971.0	
27 Bis(2-chloroethyl)ether	93	3.688	3.688	0.000	88460	954.3	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
28 2-Chlorophenol	128	3.739	3.739	0.000	96926	1135.4	
29 n-Decane	57	3.753	3.753	0.000	79122	1128.5	
30 1,3-Dichlorobenzene	146	3.853	3.853	0.000	106776	1122.4	M
31 1,4-Dichlorobenzene	146	3.904	3.904	0.000	108304	1070.9	M
32 Benzyl alcohol	108	3.983	3.983	0.000	56907	1037.5	
33 1,2-Dichlorobenzene	146	4.020	4.020	0.000	101035	1047.3	M
34 2-Methylphenol	108	4.051	4.051	0.000	85464	1084.2	
35 2,2'-oxybis[1-chloropropane]	45	4.080	4.080	0.000	81133	1048.2	
36 3 & 4 Methylphenol	108	4.162	4.162	0.000	86258	1093.1	M
38 N-Nitrosodi-n-propylamine	70	4.182	4.182	0.000	58048	1136.6	
37 Acetophenone	105	4.191	4.191	0.000	121736	1131.0	
39 Hexachloroethane	117	4.279	4.279	0.000	36803	1039.1	
40 Nitrobenzene	77	4.321	4.321	0.000	80610	1020.1	
41 Isophorone	82	4.503	4.503	0.000	157943	1022.6	
42 2-Nitrophenol	139	4.568	4.568	0.000	49798	903.4	
43 2,4-Dimethylphenol	107	4.582	4.582	0.000	71304	999.7	
44 Benzoic acid	105	4.636	4.636	0.000	127321	5018.5	M
45 Bis(2-chloroethoxy)methane	93	4.665	4.665	0.000	103943	1096.9	
46 2,4-Dichlorophenol	162	4.750	4.750	0.000	75754	1029.9	
47 1,2,4-Trichlorobenzene	180	4.823	4.823	0.000	91907	1037.7	
48 Naphthalene	128	4.892	4.892	0.000	286461	1000.3	
49 4-Chloroaniline	127	4.923	4.923	0.000	91753	997.2	
50 Hexachlorobutadiene	225	4.985	4.985	0.000	49894	1023.8	
51 4-Chloro-3-methylphenol	107	5.297	5.297	0.000	68494	1122.9	
52 2-Methylnaphthalene	142	5.445	5.445	0.000	179510	1011.2	
53 1-Methylnaphthalene	142	5.527	5.527	0.000	194554	1026.1	M
54 Hexachlorocyclopentadiene	237	5.573	5.573	0.000	51630	924.3	
55 2,4,6-Trichlorophenol	196	5.666	5.666	0.000	54822	1095.1	
56 2,3-Dichlorobenzenamine	161	5.672	5.672	0.000	97094	1038.5	
57 2,4,5-Trichlorophenol	196	5.695	5.695	0.000	61026	1046.9	M
58 1,1'-Biphenyl	154	5.823	5.823	0.000	232453	1027.7	
59 2-Chloronaphthalene	162	5.842	5.842	0.000	184969	1024.4	
60 2-Nitroaniline	65	5.919	5.919	0.000	29979	1002.8	
62 Dimethyl phthalate	163	6.064	6.064	0.000	188347	1047.9	
63 2,6-Dinitrotoluene	165	6.112	6.112	0.000	48321	1006.9	
64 Acenaphthylene	152	6.186	6.186	0.000	278970	1021.6	
65 3-Nitroaniline	138	6.251	6.251	0.000	33522	976.3	
66 Acenaphthene	153	6.325	6.325	0.000	194479	1053.3	
67 2,4-Dinitrophenol	184	6.336	6.336	0.000	92345	5290.4	
68 4-Nitrophenol	109	6.373	6.373	0.000	68011	5064.8	
69 2,4-Dinitrotoluene	165	6.444	6.444	0.000	58362	1019.6	
70 Dibenzofuran	168	6.467	6.467	0.000	251866	1008.0	
71 2,3,5,6-Tetrachlorophenol	232	6.526	6.526	0.000	48702	966.2	
72 2,3,4,6-Tetrachlorophenol	232	6.560	6.560	0.000	52355	1097.7	M
73 Diethyl phthalate	149	6.643	6.643	0.000	182805	1029.0	
76 4-Chlorophenyl phenyl ether	204	6.745	6.745	0.000	95821	1035.5	
75 Fluorene	166	6.751	6.751	0.000	221752	1085.1	
77 4-Nitroaniline	138	6.751	6.751	0.000	29629	1269.3	M
78 4,6-Dinitro-2-methylphenol	198	6.776	6.776	0.000	147511	4977.8	
79 N-Nitrosodiphenylamine	169	6.839	6.839	0.000	168405	1015.7	M
80 Azobenzene	77	6.873	6.873	0.000	162981	1044.8	
81 4-Bromophenyl phenyl ether	248	7.148	7.148	0.000	69975	1029.3	M

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
82 Hexachlorobenzene	284	7.199	7.199	0.000	86374	991.6	
83 Pentachlorophenol	266	7.358	7.358	0.000	35363	842.2	
84 n-Octadecane	43	7.415	7.415	0.000	40549	915.0	
86 Phenanthrene	178	7.543	7.543	0.000	289699	986.0	
87 Anthracene	178	7.582	7.582	0.000	274281	963.1	
89 Carbazole	167	7.707	7.707	0.000	249489	1017.8	5
90 Di-n-butyl phthalate	149	7.988	7.988	0.000	317815	932.1	
95 Fluoranthene	202	8.522	8.522	0.000	316600	1030.1	M
94 Benzidine	184	8.624	8.624	0.000	76613	2130.0	
93 Pyrene	202	8.709	8.709	0.000	343597	977.2	M
97 Butyl benzyl phthalate	149	9.223	9.223	0.000	140387	985.2	
98 3,3'-Dichlorobenzidine	252	9.700	9.700	0.000	199524	2092.7	M
99 Benzo[a]anthracene	228	9.731	9.731	0.000	337396	1000.0	M
101 Bis(2-ethylhexyl) phthalate	149	9.731	9.731	0.000	206480	955.0	M
100 Chrysene	228	9.765	9.765	0.000	320930	899.7	
102 Di-n-octyl phthalate	149	10.412	10.412	0.000	320738	1063.0	
103 Benzo[b]fluoranthene	252	10.841	10.841	0.000	338967	1002.3	M
105 Benzofluoranthene	252	10.869	10.869	0.000	726981	2076.5	M
104 Benzo[k]fluoranthene	252	10.869	10.869	0.000	387141	1083.2	
106 Benzo[a]pyrene	252	11.175	11.175	0.000	335635	999.2	M
107 Indeno[1,2,3-cd]pyrene	276	12.504	12.504	0.000	424644	1076.2	M
108 Dibenz(a,h)anthracene	278	12.529	12.529	0.000	368024	1130.2	
109 Benzo[g,h,i]perylene	276	12.878	12.878	0.000	363732	1089.4	M

QC Flag Legend

Processing Flags
5 - Exceeded Maximum Amount

Review Flags
M - Manually Integrated

Report Date: 26-May-2010 16:13:12 Chrom Revision: 1.1 20-Apr-2010 06:13:18

Data File: \\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D

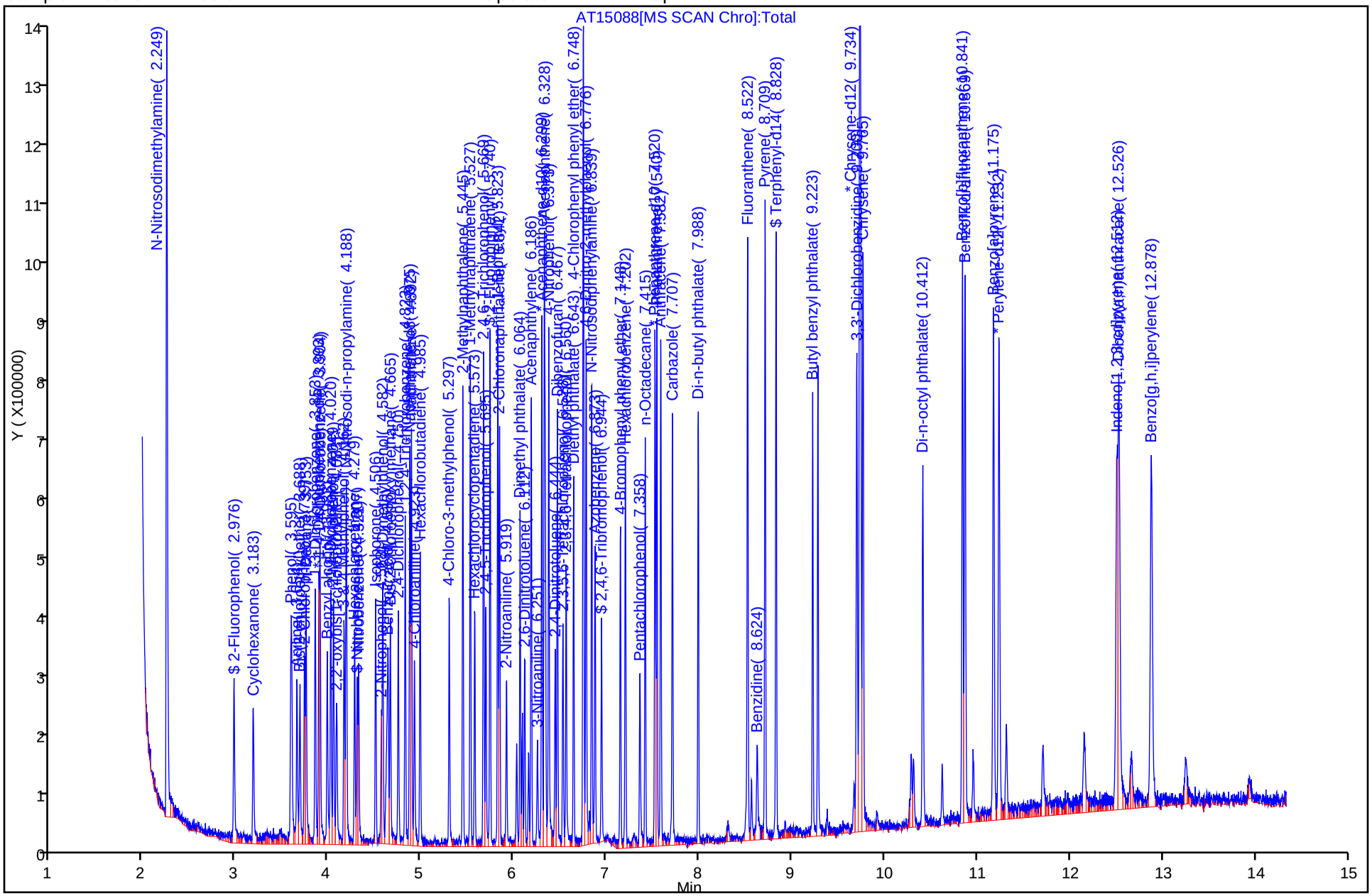
Inj Date: 11-May-2010 17:16:30 Limit Group: 8270C Standard

Lims Batch ID: 63269 Lims Sample ID: 10

Client ID: Instrument: TAC002

Sample Info: ic std 1000 ppb

Sample Amount: 1.00 ul Operator: ap



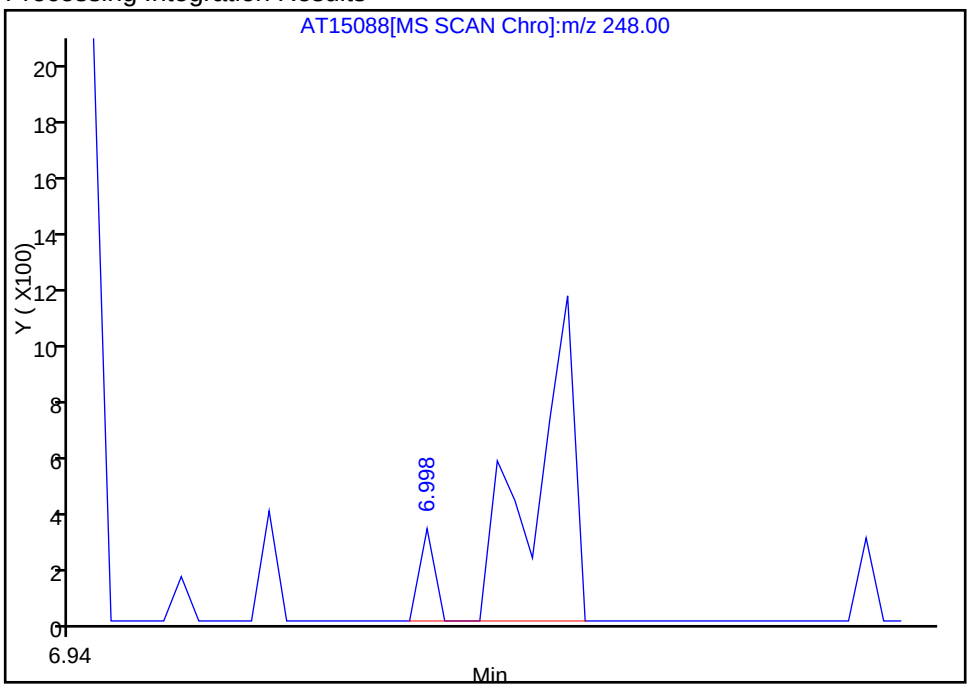
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Inj Date:	11-May-2010 17:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	10
Client ID:		Instrument:	TAC002
Sample Info:	ic std 1000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

81 4-Bromophenyl phenyl ether, Number: 1, m/z: 248 Type: quant, RT: 7.15

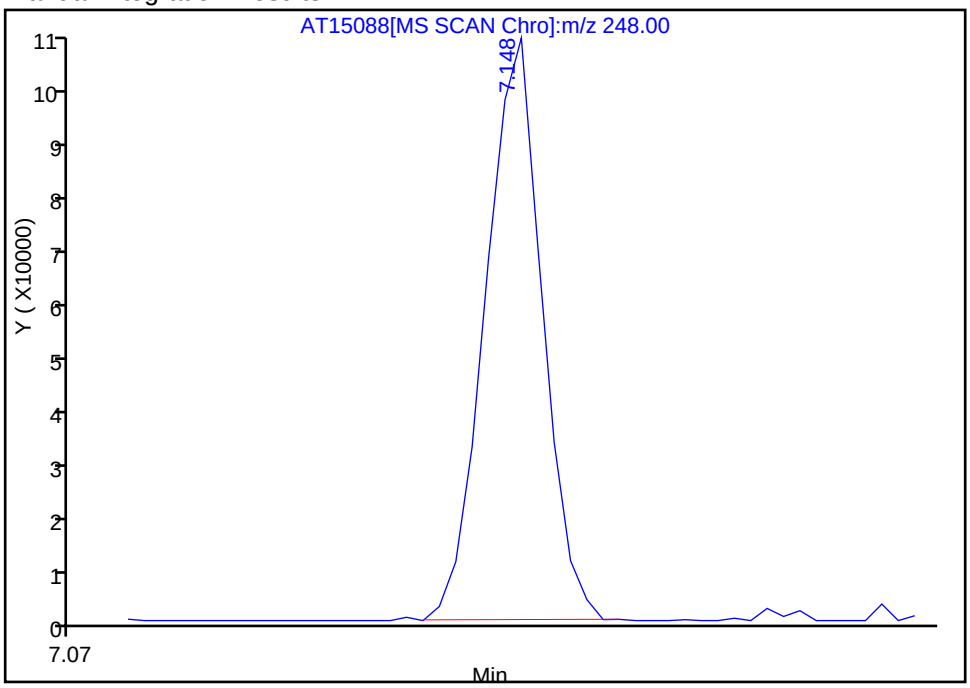
Processing Integration Results

RT: 7.00
Response: 573
Amount: 106.0686



Manual Integration Results

RT: 7.15
Response: 69975
Amount: 1029.2808



Reviewer: phama, 11-May-2010 18:07:06
Audit Action: Manually Integrated
Audit Reason: Wrong peak

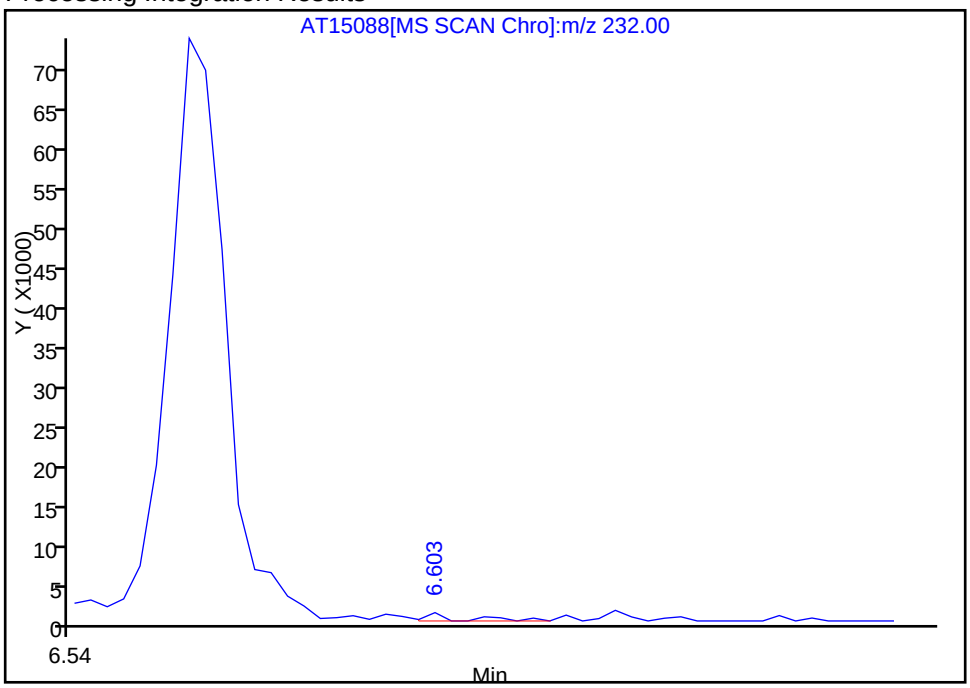
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Inj Date:	11-May-2010 17:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	10
Client ID:		Instrument:	TAC002
Sample Info:	ic std 1000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

72 2,3,4,6-Tetrachlorophenol, Number: 1, m/z: 232 Type: quant, RT: 6.56

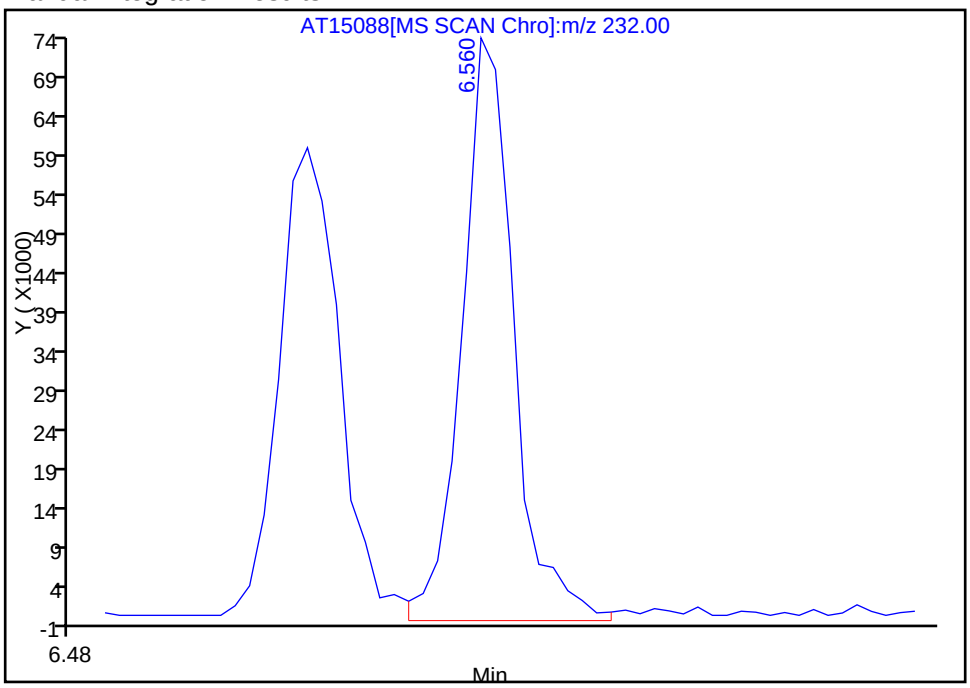
Processing Integration Results

RT: 6.60
Response: 415
Amount: 114.4526



Manual Integration Results

RT: 6.56
Response: 52355
Amount: 1097.6953



Reviewer: phama, 11-May-2010 18:07:06
Audit Action: Manually Integrated
Audit Reason: Wrong peak

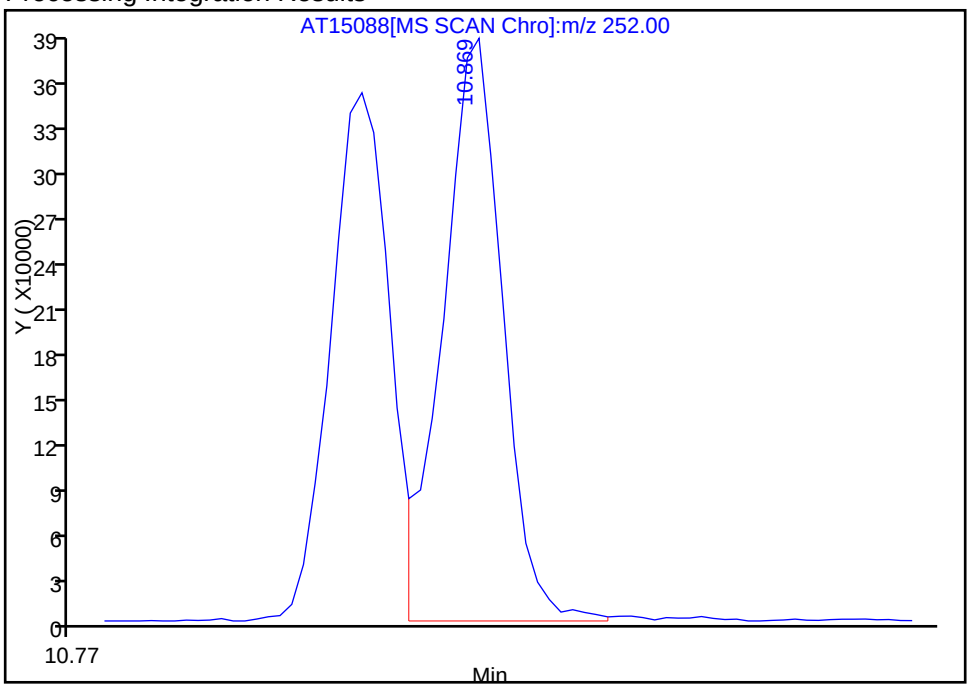
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Inj Date:	11-May-2010 17:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	10
Client ID:		Instrument:	TAC002
Sample Info:	ic std 1000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

103 Benzo[b]fluoranthene, Number: 1, m/z: 252 Type: quant, RT: 10.84

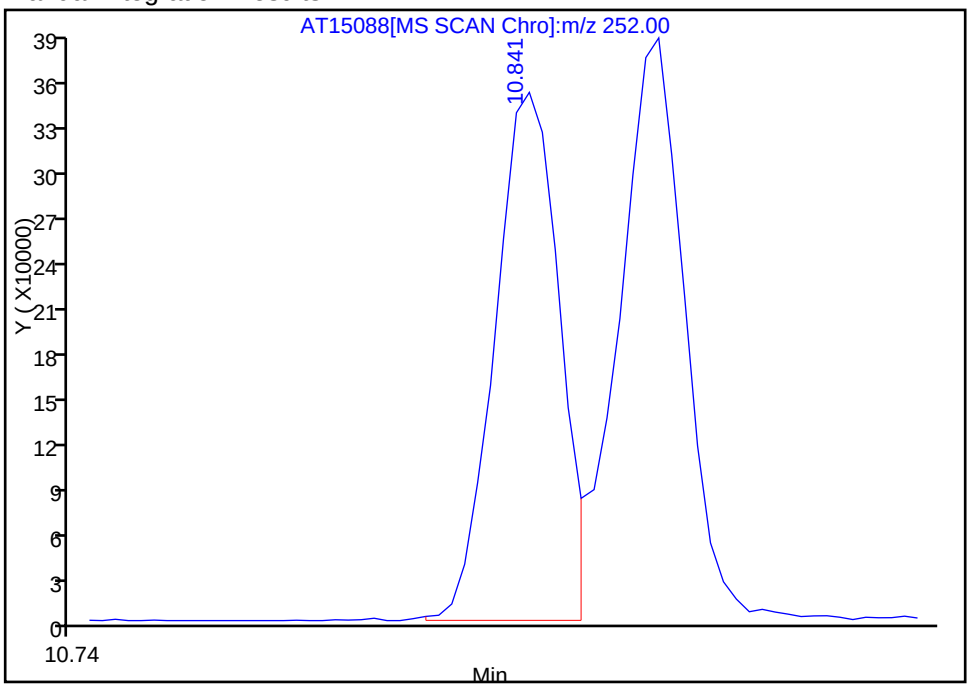
Processing Integration Results

RT: 10.87
Response: 387141
Amount: 1489.4878



Manual Integration Results

RT: 10.84
Response: 338967
Amount: 1002.3022



Reviewer: phama, 11-May-2010 18:07:06
Audit Action: Manually Integrated
Audit Reason: Other

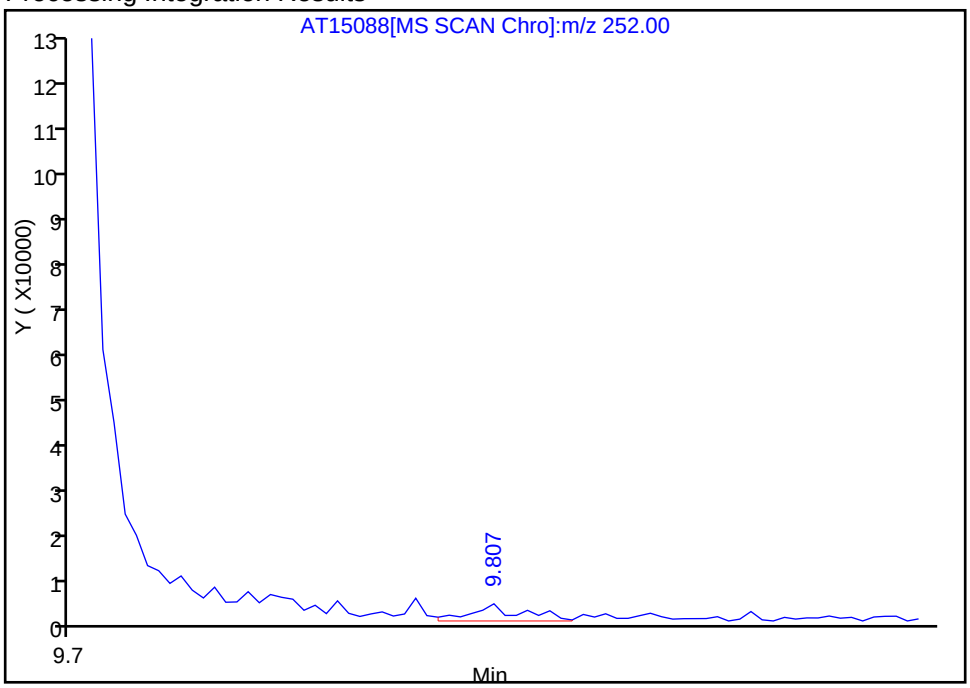
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Inj Date:	11-May-2010 17:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	10
Client ID:		Instrument:	TAC002
Sample Info:	ic std 1000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

98 3,3'-Dichlorobenzidine, Number: 1, m/z: 252 Type: quant, RT: 9.70

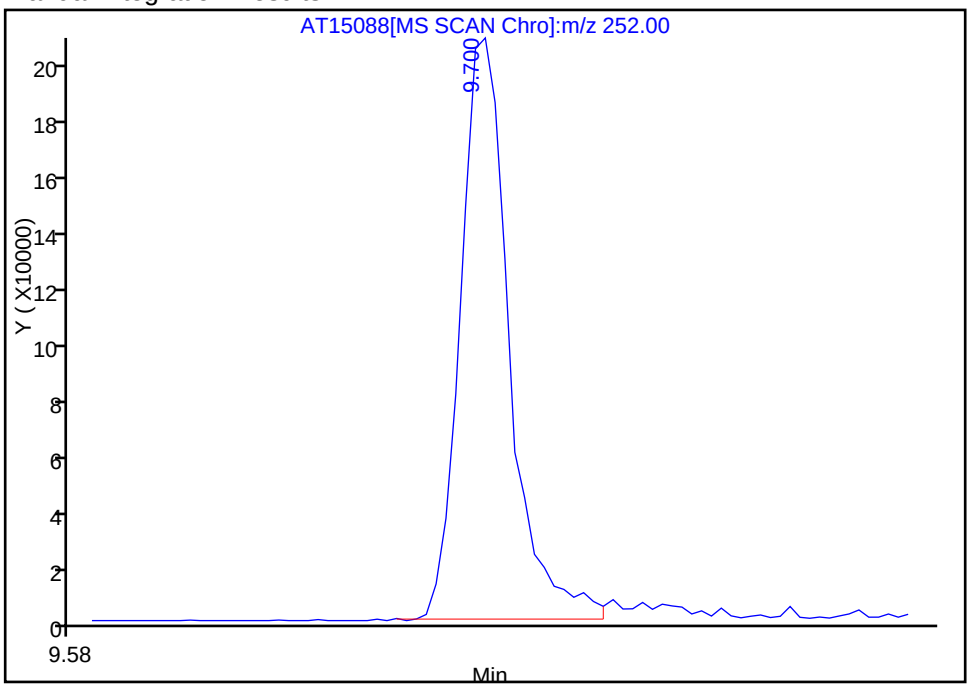
Processing Integration Results

RT: 9.81
Response: 3245
Amount: 63.065259



Manual Integration Results

RT: 9.70
Response: 199524
Amount: 2092.6928



Reviewer: phama, 11-May-2010 18:07:06
Audit Action: Manually Integrated
Audit Reason: Wrong peak

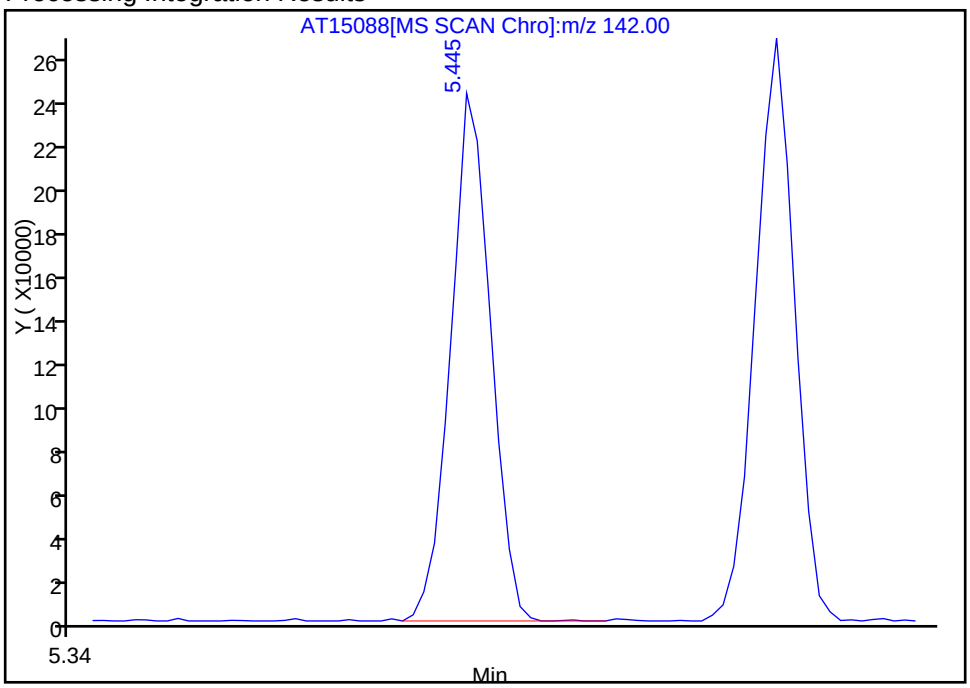
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Inj Date:	11-May-2010 17:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	10
Client ID:		Instrument:	TAC002
Sample Info:	ic std 1000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

53 1-Methylnaphthalene, Number: 1, m/z: 142 Type: quant, RT: 5.53

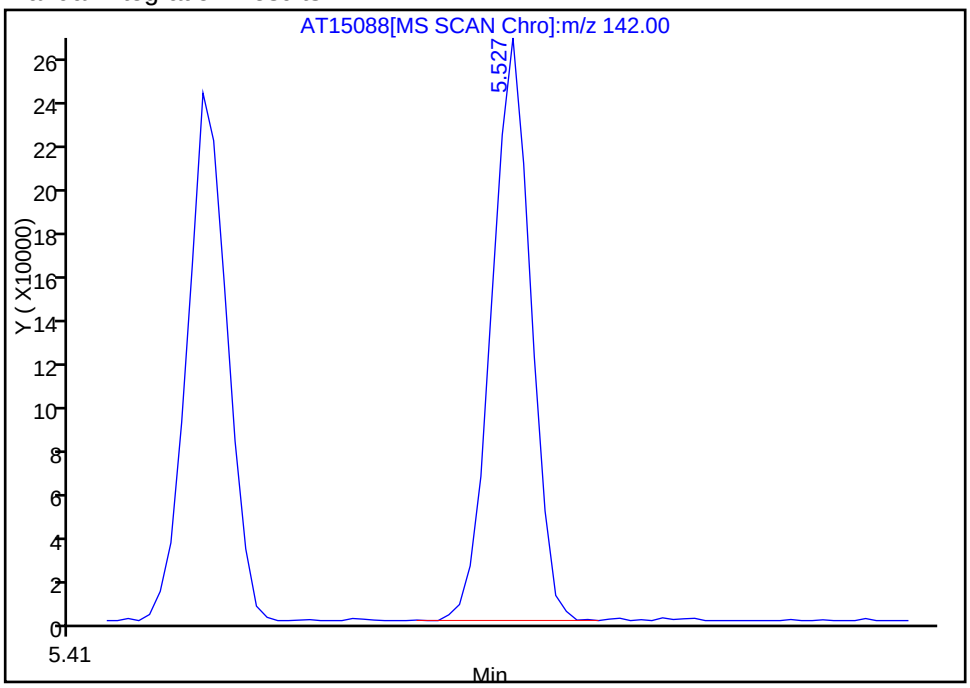
Processing Integration Results

RT: 5.45
Response: 179510
Amount: 841.3695



Manual Integration Results

RT: 5.53
Response: 194554
Amount: 1026.1238



Reviewer: phama, 11-May-2010 18:07:06
Audit Action: Manually Integrated
Audit Reason: Wrong peak

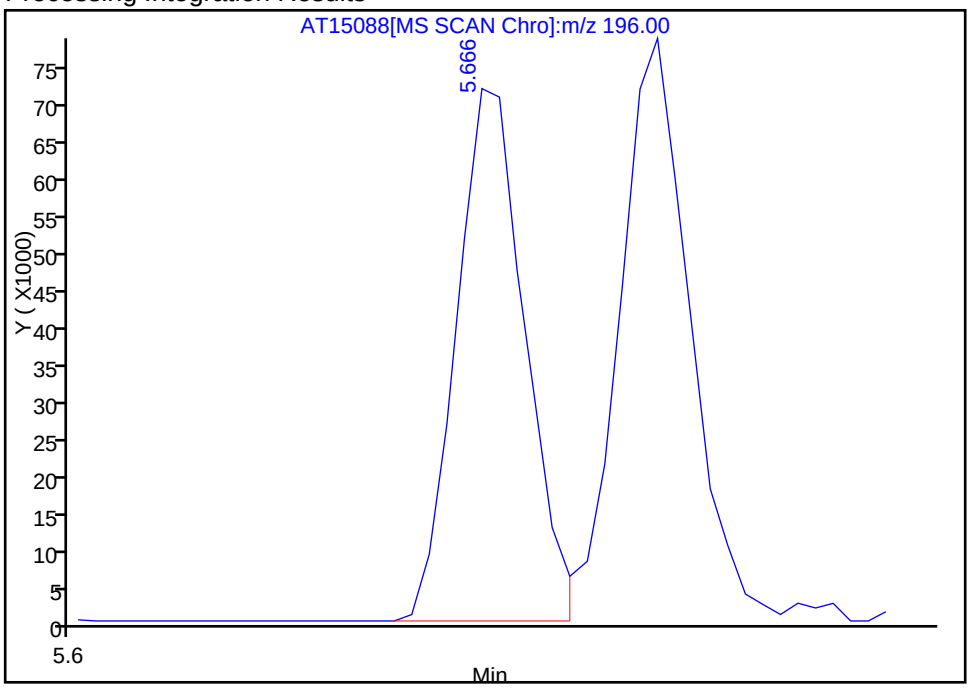
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Inj Date:	11-May-2010 17:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	10
Client ID:		Instrument:	TAC002
Sample Info:	ic std 1000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

57 2,4,5-Trichlorophenol, Number: 1, m/z: 196 Type: quant, RT: 5.69

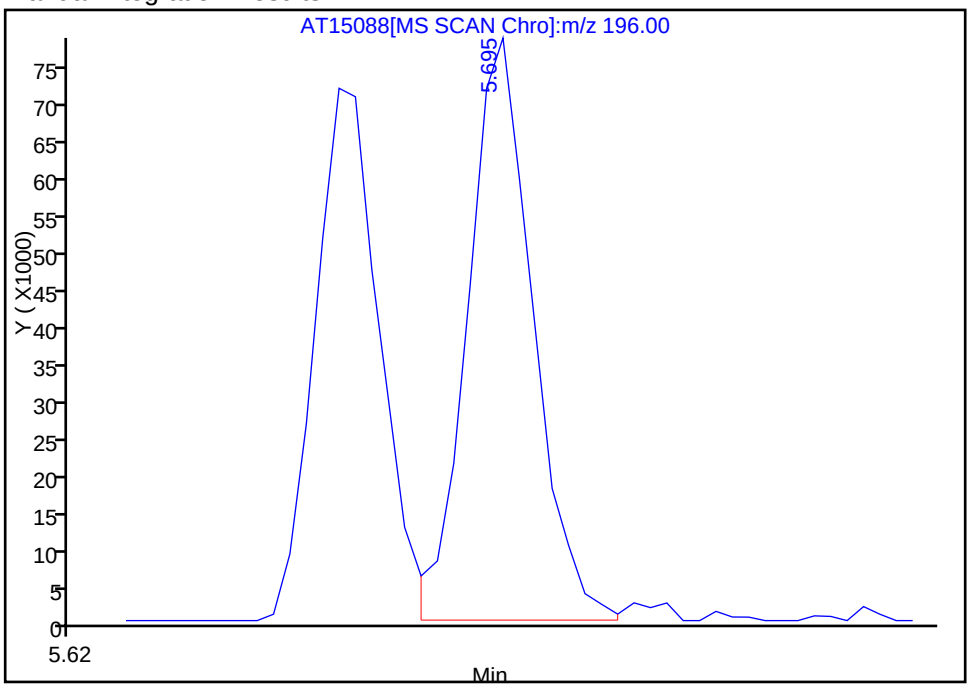
Processing Integration Results

RT: 5.67
Response: 54822
Amount: 894.7610



Manual Integration Results

RT: 5.69
Response: 61026
Amount: 1046.9084



Reviewer: phama, 11-May-2010 18:07:06
Audit Action: Manually Integrated
Audit Reason: Wrong peak

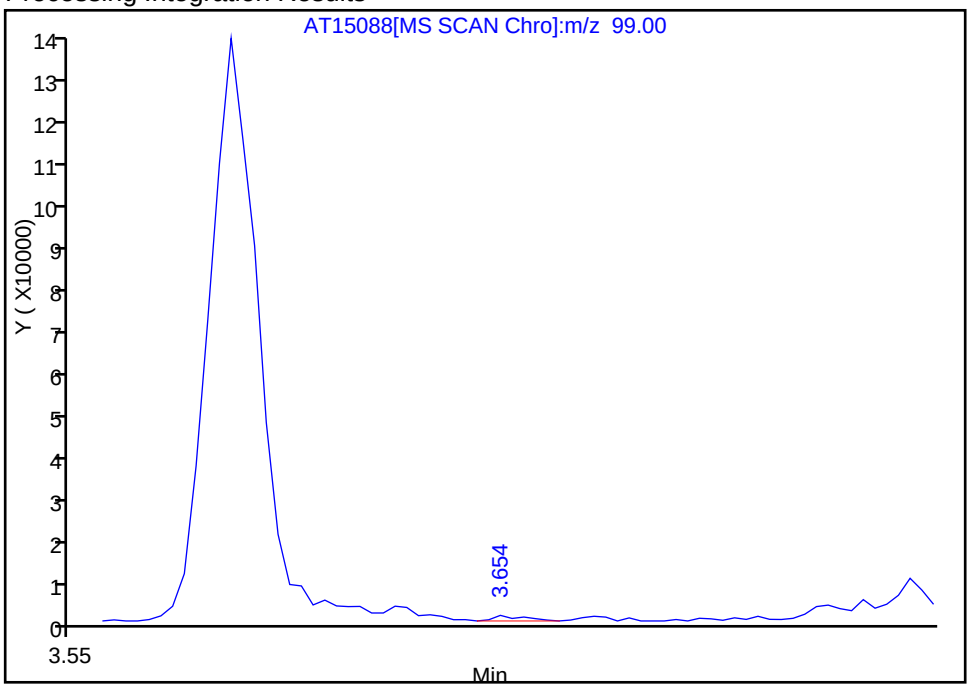
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Inj Date:	11-May-2010 17:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	10
Client ID:		Instrument:	TAC002
Sample Info:	ic std 1000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

$ 8 Phenol-d5, Number: 1, m/z: 99 Type: quant, RT: 3.59

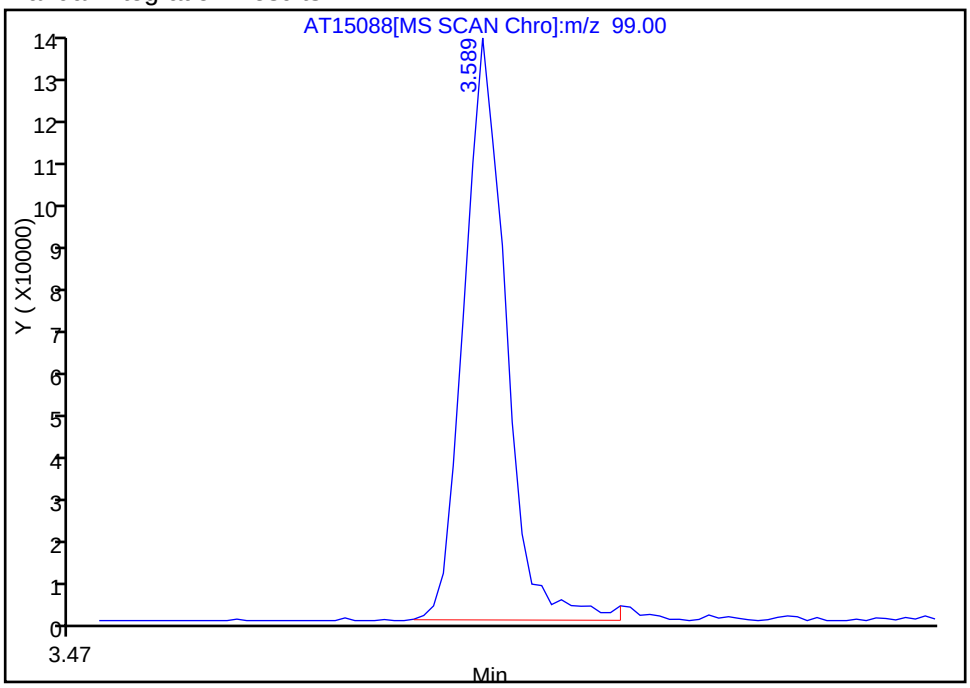
Processing Integration Results

RT: 3.65
Response: 638
Amount: 6.197982



Manual Integration Results

RT: 3.59
Response: 111750
Amount: 1087.8611



Reviewer: phama, 11-May-2010 18:08:09
Audit Action: Manually Integrated
Audit Reason: Wrong peak

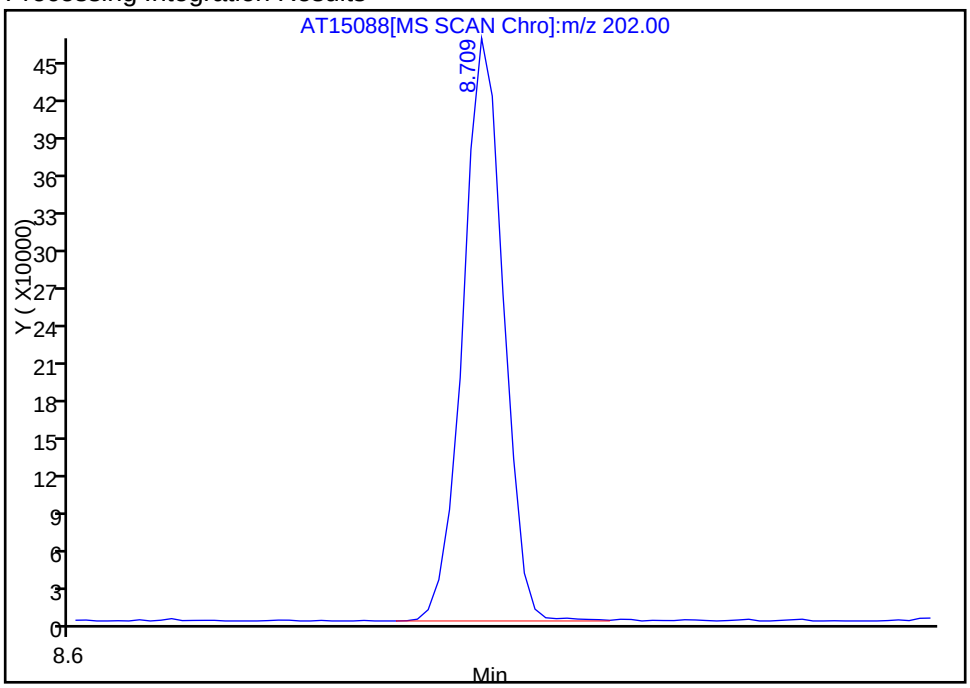
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Inj Date:	11-May-2010 17:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	10
Client ID:		Instrument:	TAC002
Sample Info:	ic std 1000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

95 Fluoranthene, Number: 1, m/z: 202 Type: quant, RT: 8.52

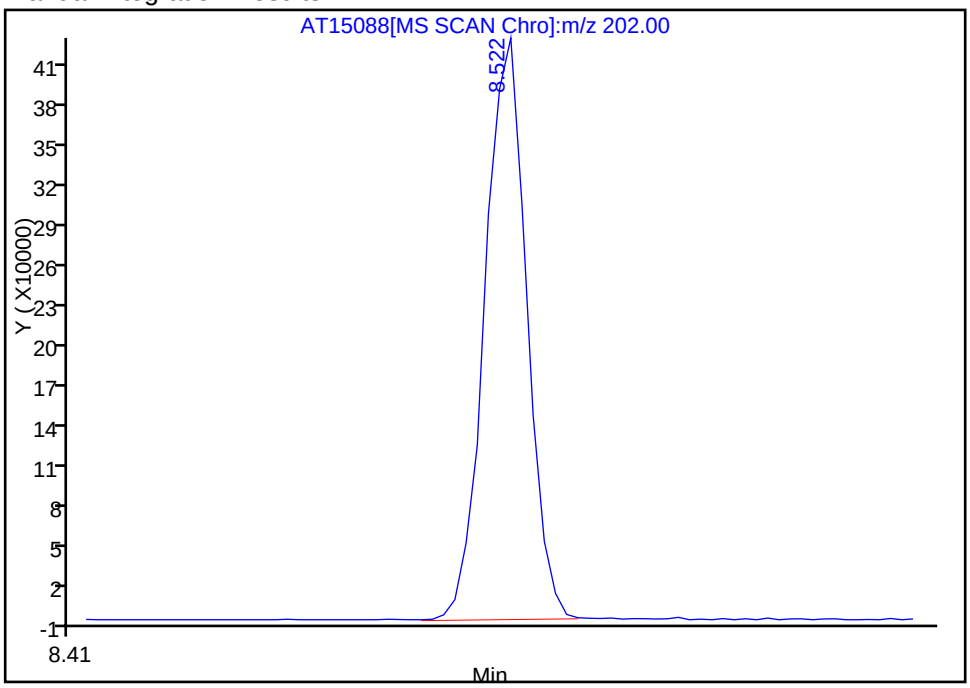
Processing Integration Results

RT: 8.71
Response: 343964
Amount: 1004.4350



Manual Integration Results

RT: 8.52
Response: 316600
Amount: 1030.0860



Reviewer: phama, 11-May-2010 18:07:06
Audit Action: Manually Integrated
Audit Reason: Wrong peak

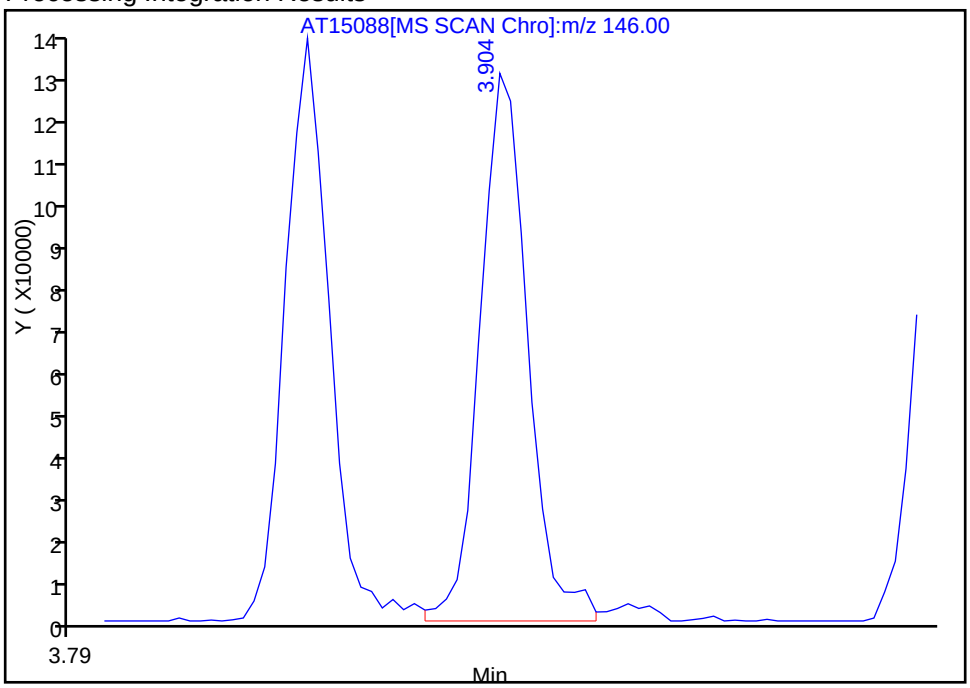
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Inj Date:	11-May-2010 17:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	10
Client ID:		Instrument:	TAC002
Sample Info:	ic std 1000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

33 1,2-Dichlorobenzene, Number: 1, m/z: 146 Type: quant, RT: 4.02

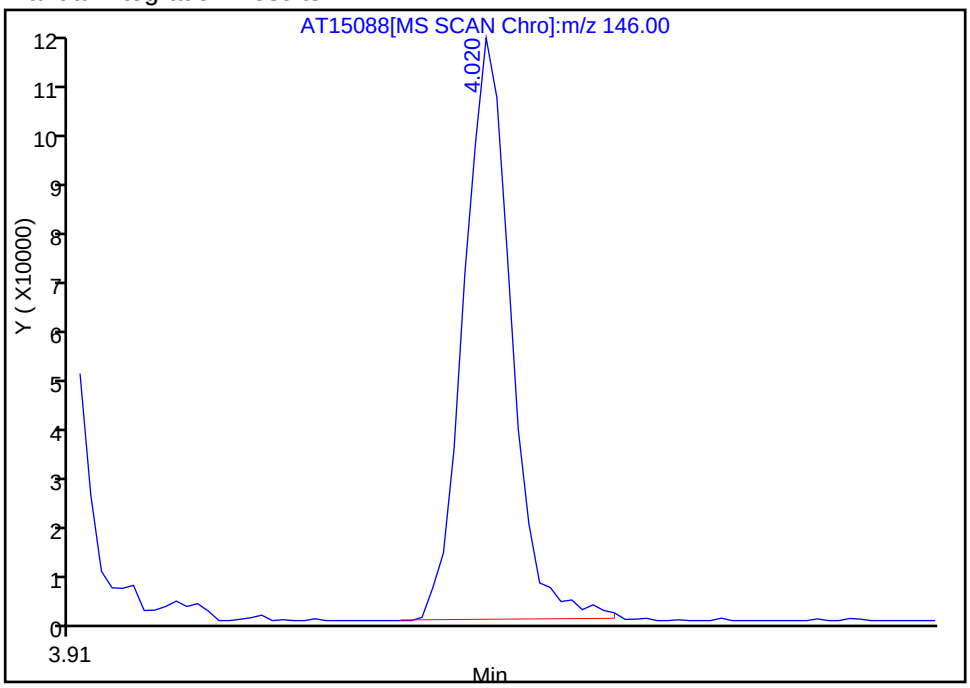
Processing Integration Results

RT: 3.90
Response: 108278
Amount: 793.5697



Manual Integration Results

RT: 4.02
Response: 101035
Amount: 1047.3380



Reviewer: phama, 11-May-2010 18:07:06
Audit Action: Manually Integrated
Audit Reason: Wrong peak

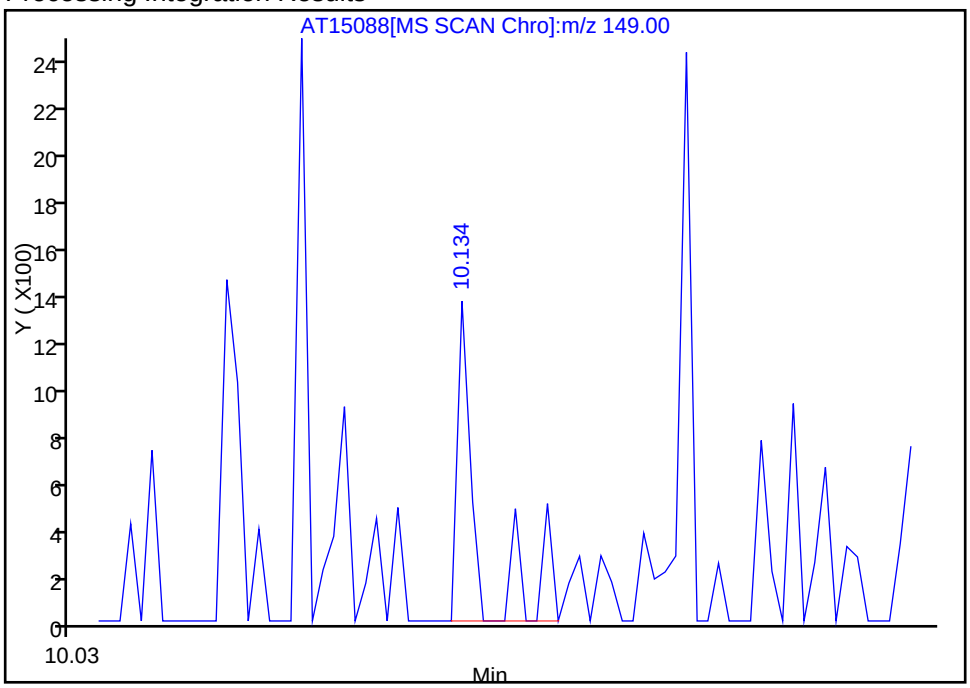
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Inj Date:	11-May-2010 17:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	10
Client ID:		Instrument:	TAC002
Sample Info:	ic std 1000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

101 Bis(2-ethylhexyl) phthalate, Number: 1, m/z: 149 Type: quant, RT: 9.73

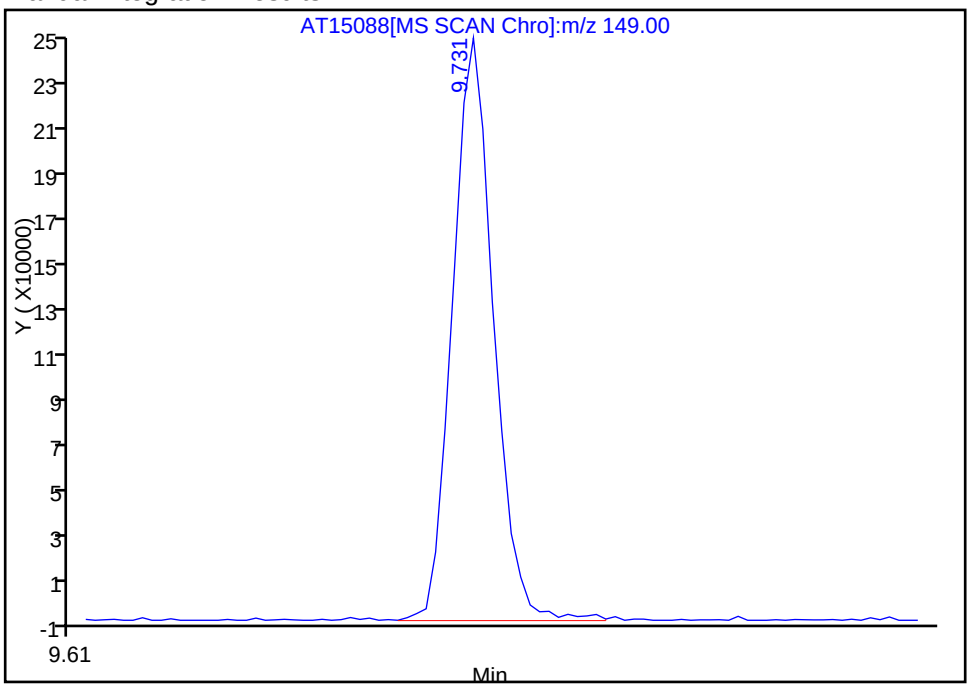
Processing Integration Results

RT: 10.13
Response: 469
Amount: 122.2025



Manual Integration Results

RT: 9.73
Response: 206480
Amount: 954.9506



Reviewer: phama, 11-May-2010 18:07:06
Audit Action: Manually Integrated
Audit Reason: Wrong peak

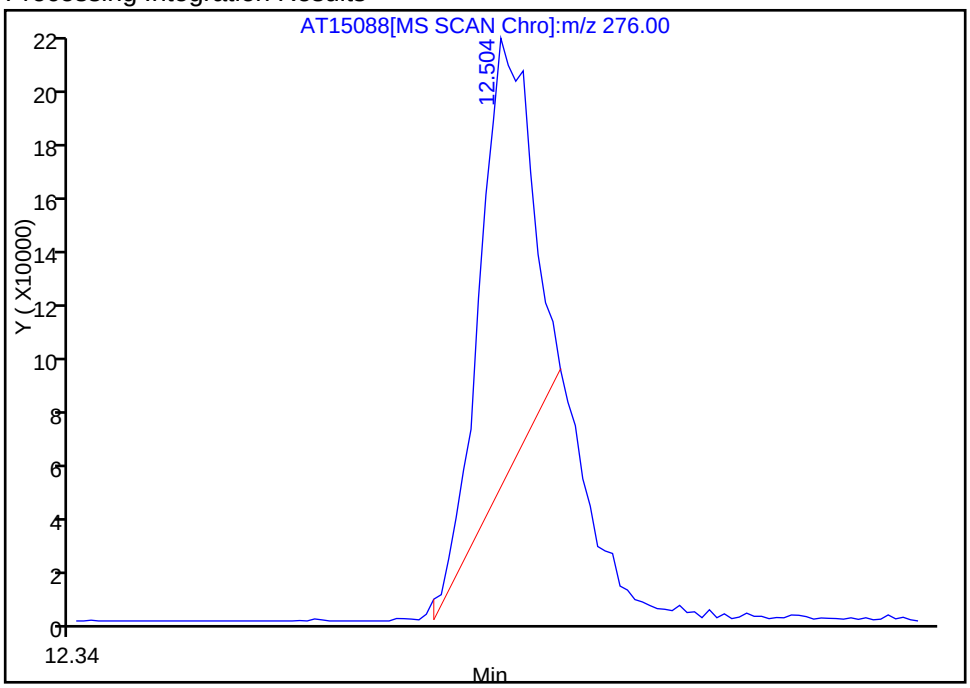
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Inj Date:	11-May-2010 17:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	10
Client ID:		Instrument:	TAC002
Sample Info:	ic std 1000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

109 Benzo[g,h,i]perylene, Number: 1, m/z: 276 Type: quant, RT: 12.88

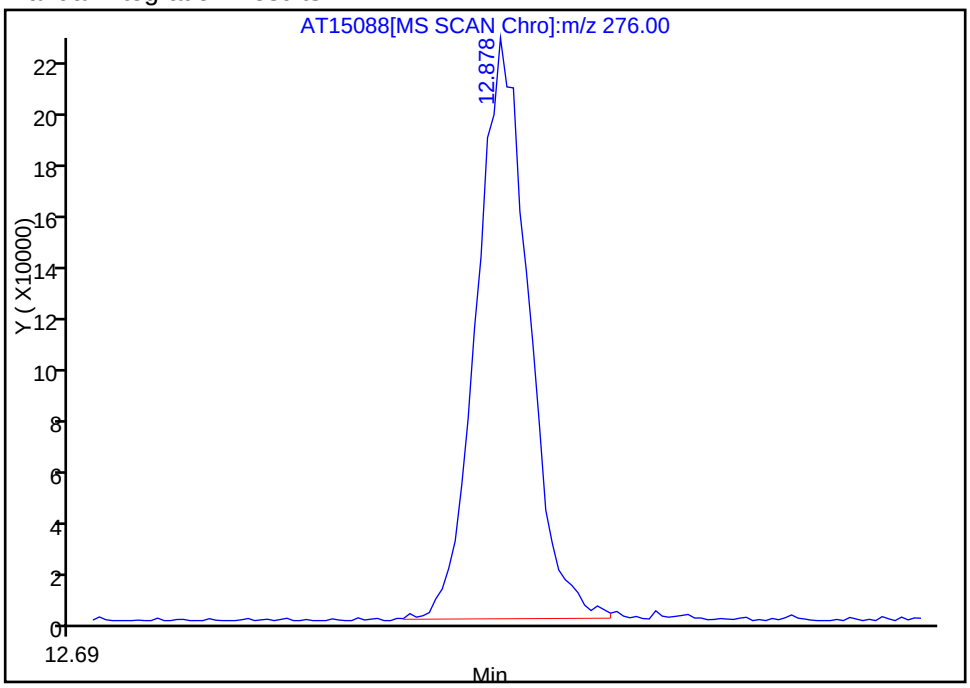
Processing Integration Results

RT: 12.50
Response: 215971
Amount: 732.6118



Manual Integration Results

RT: 12.88
Response: 363732
Amount: 1089.3589



Reviewer: phama, 11-May-2010 18:07:06
Audit Action: Manually Integrated
Audit Reason: Wrong peak

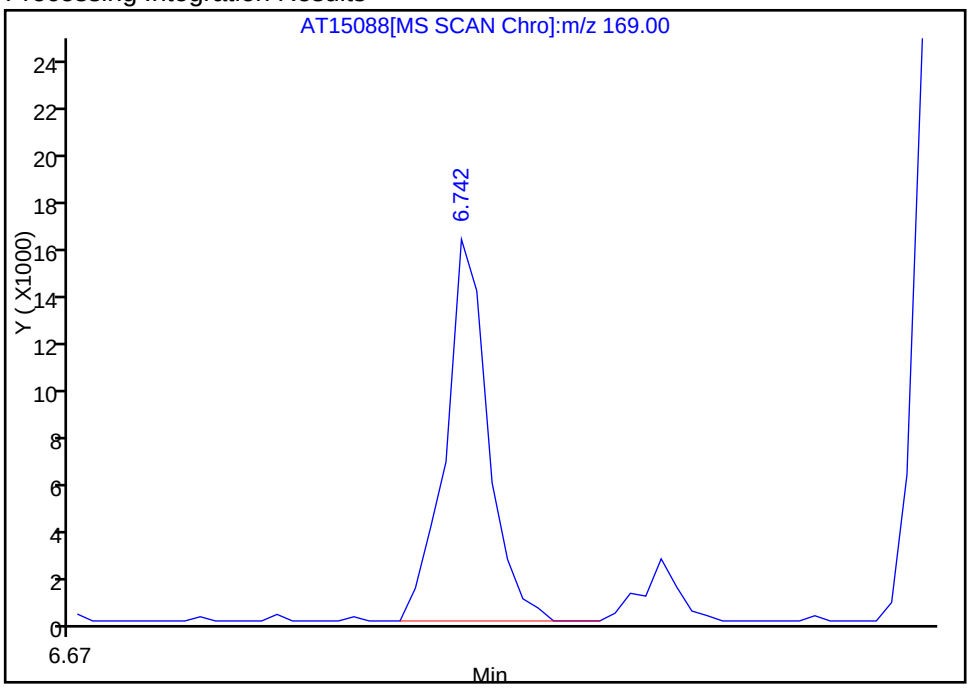
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Inj Date:	11-May-2010 17:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	10
Client ID:		Instrument:	TAC002
Sample Info:	ic std 1000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

79 N-Nitrosodiphenylamine, Number: 1, m/z: 169 Type: quant, RT: 6.84

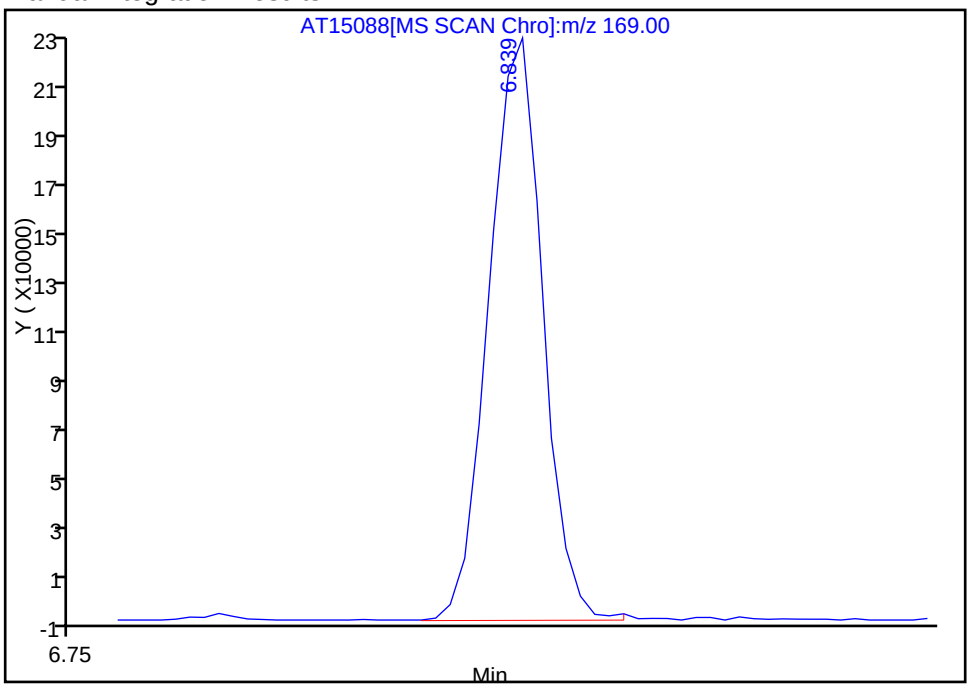
Processing Integration Results

RT: 6.74
Response: 8768
Amount: 143.9038



Manual Integration Results

RT: 6.84
Response: 168405
Amount: 1015.7007



Reviewer: phama, 11-May-2010 18:07:06
Audit Action: Manually Integrated
Audit Reason: Wrong peak

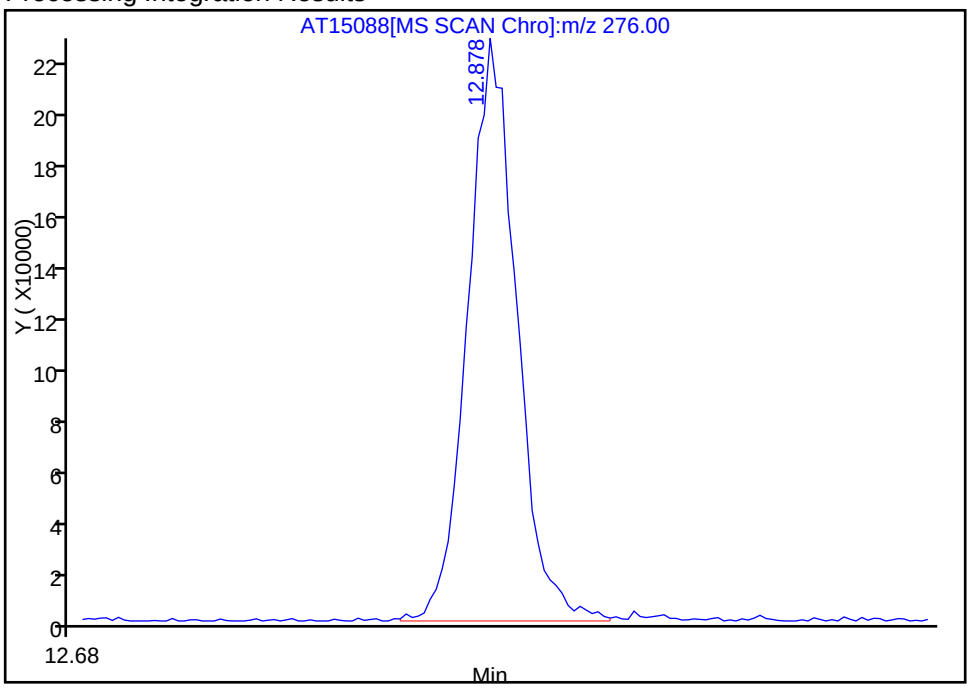
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Inj Date:	11-May-2010 17:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	10
Client ID:		Instrument:	TAC002
Sample Info:	ic std 1000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

107 Indeno[1,2,3-cd]pyrene, Number: 1, m/z: 276 Type: quant, RT: 12.50

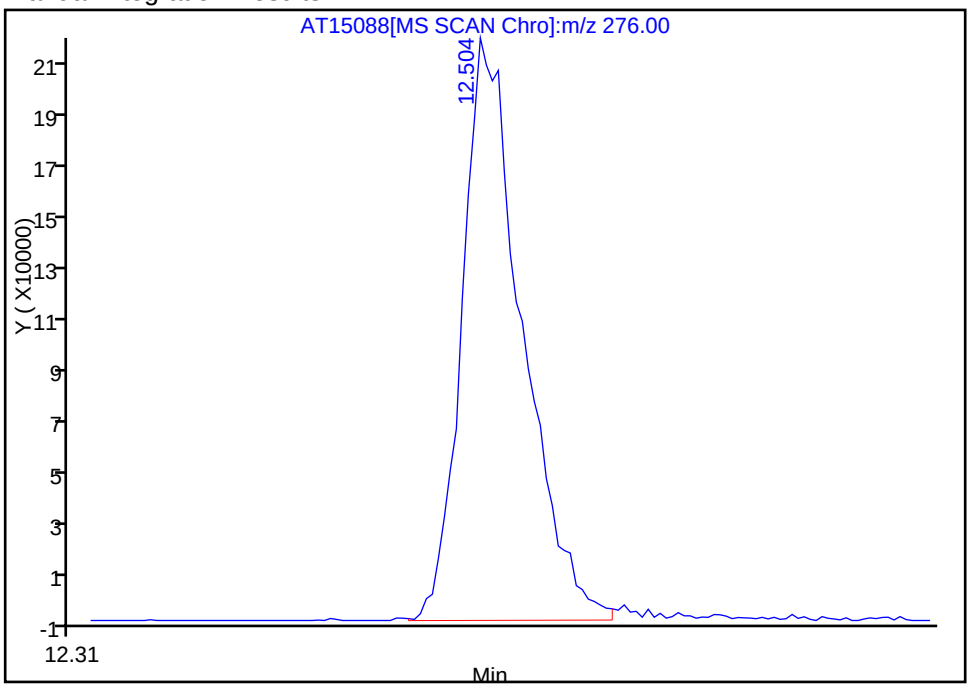
Processing Integration Results

RT: 12.88
Response: 369010
Amount: 1955.9098



Manual Integration Results

RT: 12.50
Response: 424644
Amount: 1076.1718



Reviewer: phama, 11-May-2010 18:07:06
Audit Action: Manually Integrated
Audit Reason: Other

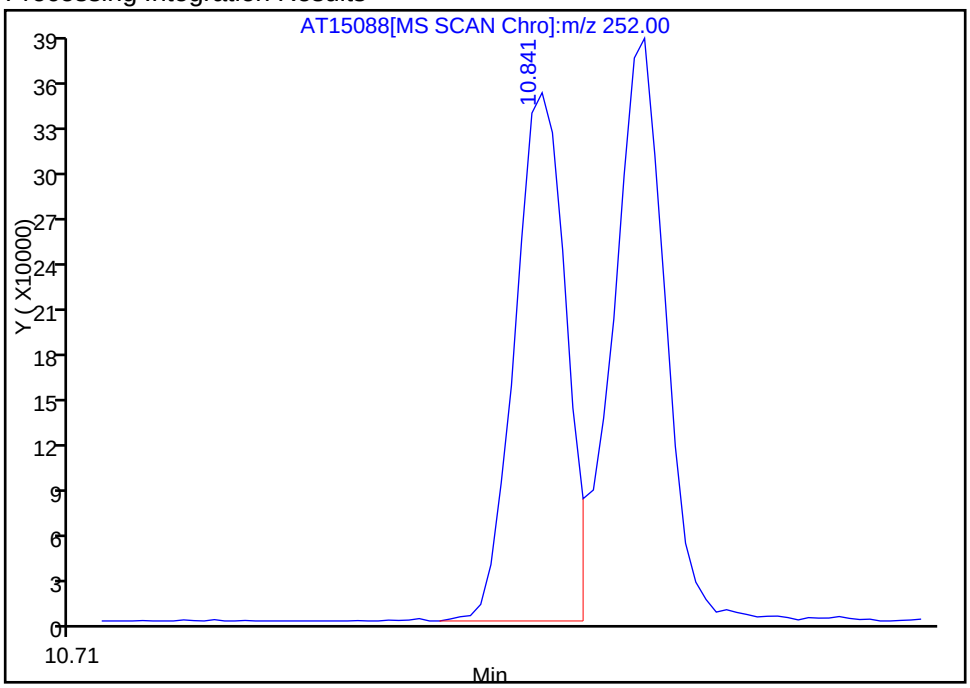
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Inj Date:	11-May-2010 17:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	10
Client ID:		Instrument:	TAC002
Sample Info:	ic std 1000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

106 Benzo[a]pyrene, Number: 1, m/z: 252 Type: quant, RT: 11.18

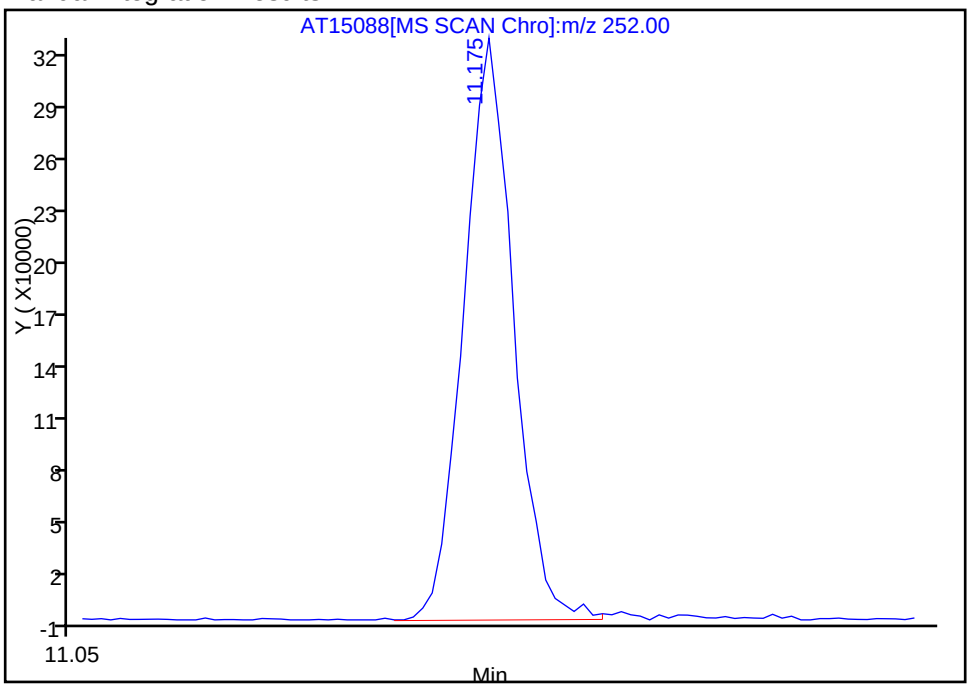
Processing Integration Results

RT: 10.84
Response: 339770
Amount: 1573.5533



Manual Integration Results

RT: 11.18
Response: 335635
Amount: 999.2120



Reviewer: phama, 11-May-2010 18:07:06
Audit Action: Manually Integrated
Audit Reason: Other

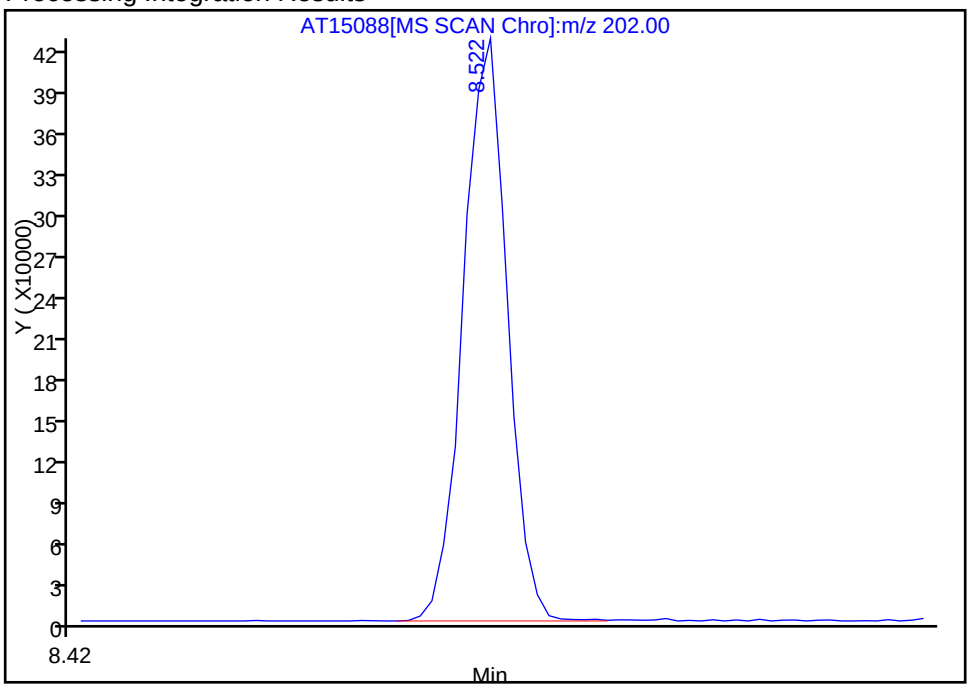
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Inj Date:	11-May-2010 17:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	10
Client ID:		Instrument:	TAC002
Sample Info:	ic std 1000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

93 Pyrene, Number: 1, m/z: 202 Type: quant, RT: 8.71

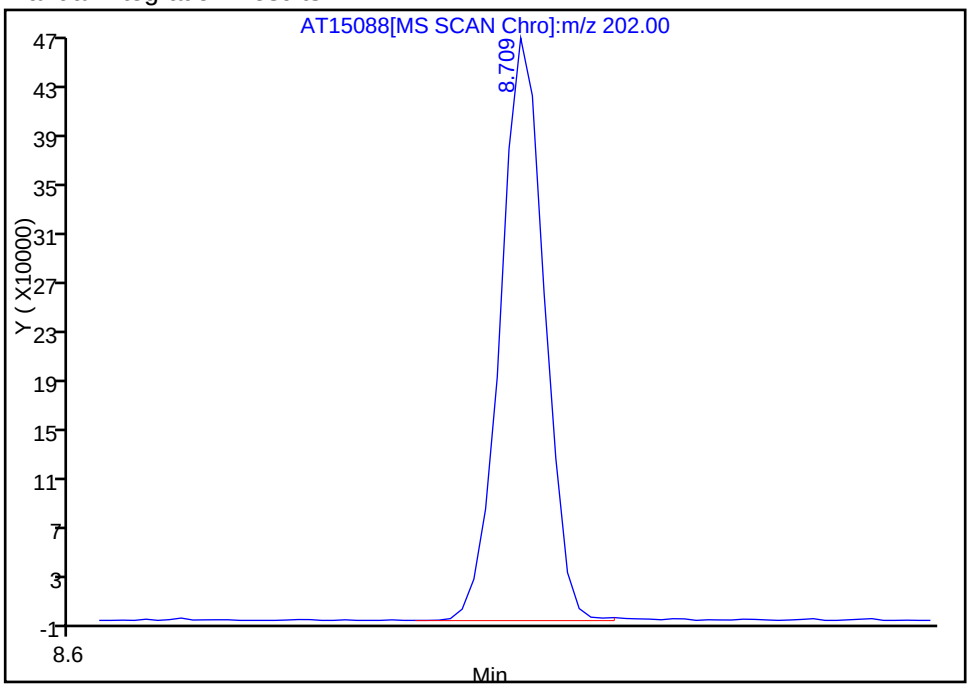
Processing Integration Results

RT: 8.52
Response: 317405
Amount: 896.8644



Manual Integration Results

RT: 8.71
Response: 343597
Amount: 977.2387



Reviewer: phama, 11-May-2010 18:07:06
Audit Action: Manually Integrated
Audit Reason: Wrong peak

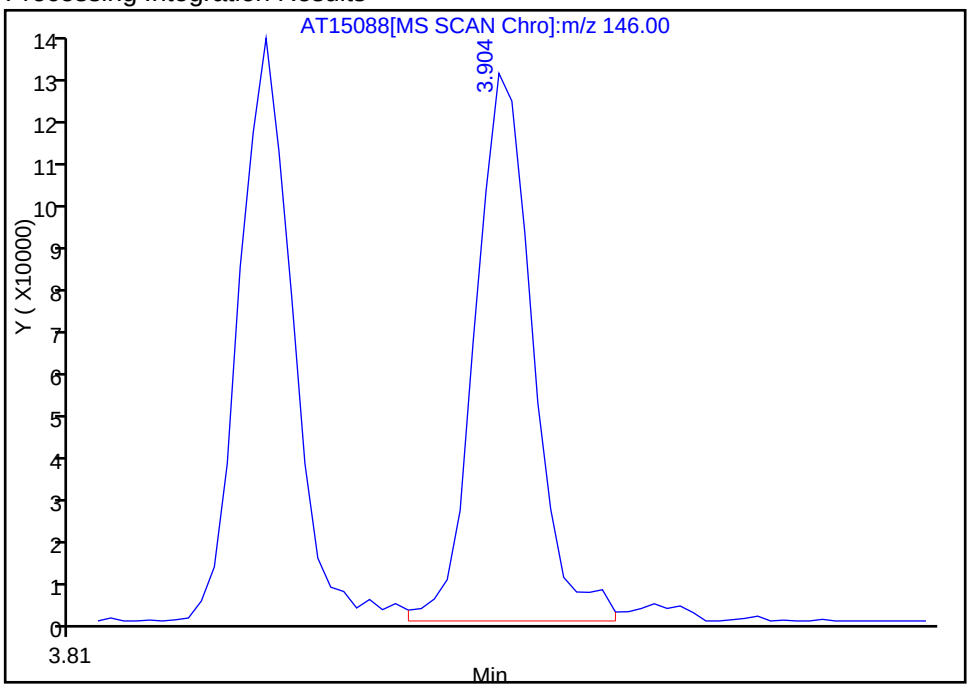
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Inj Date:	11-May-2010 17:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	10
Client ID:		Instrument:	TAC002
Sample Info:	ic std 1000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

30 1,3-Dichlorobenzene, Number: 1, m/z: 146 Type: quant, RT: 3.85

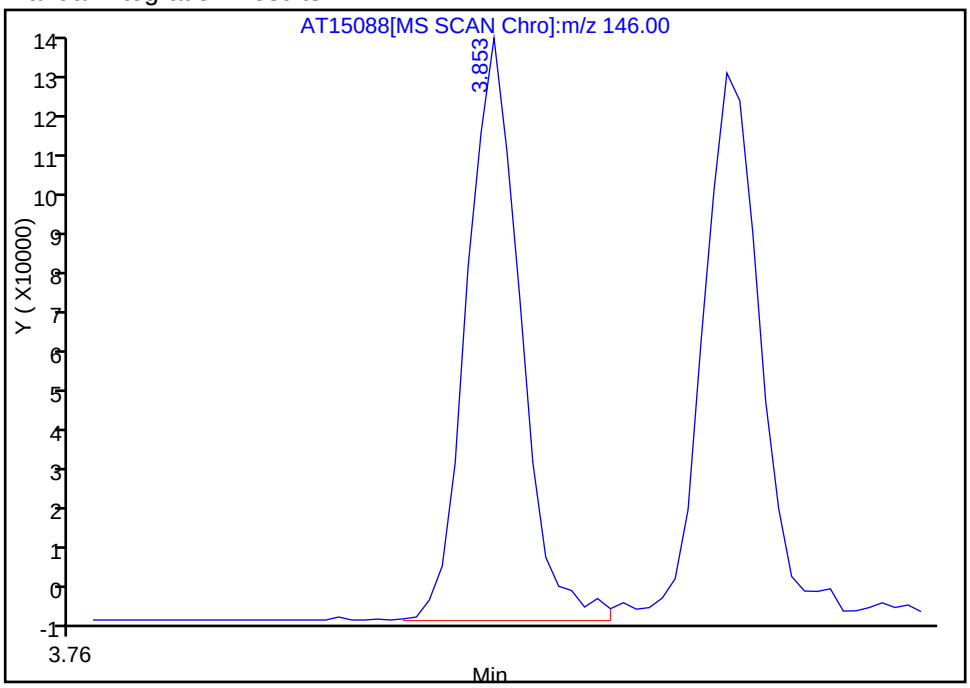
Processing Integration Results

RT: 3.90
Response: 108278
Amount: 948.7491



Manual Integration Results

RT: 3.85
Response: 106776
Amount: 1122.4146



Reviewer: phama, 11-May-2010 18:07:06
Audit Action: Manually Integrated
Audit Reason: Wrong peak

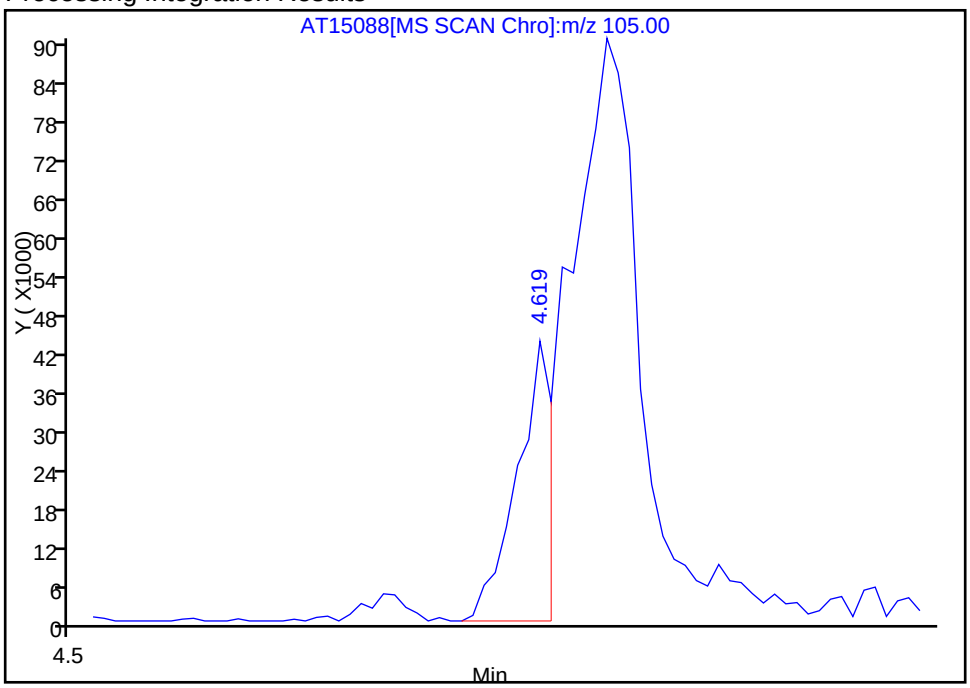
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Inj Date:	11-May-2010 17:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	10
Client ID:		Instrument:	TAC002
Sample Info:	ic std 1000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

44 Benzoic acid, Number: 1, m/z: 105 Type: quant, RT: 4.64

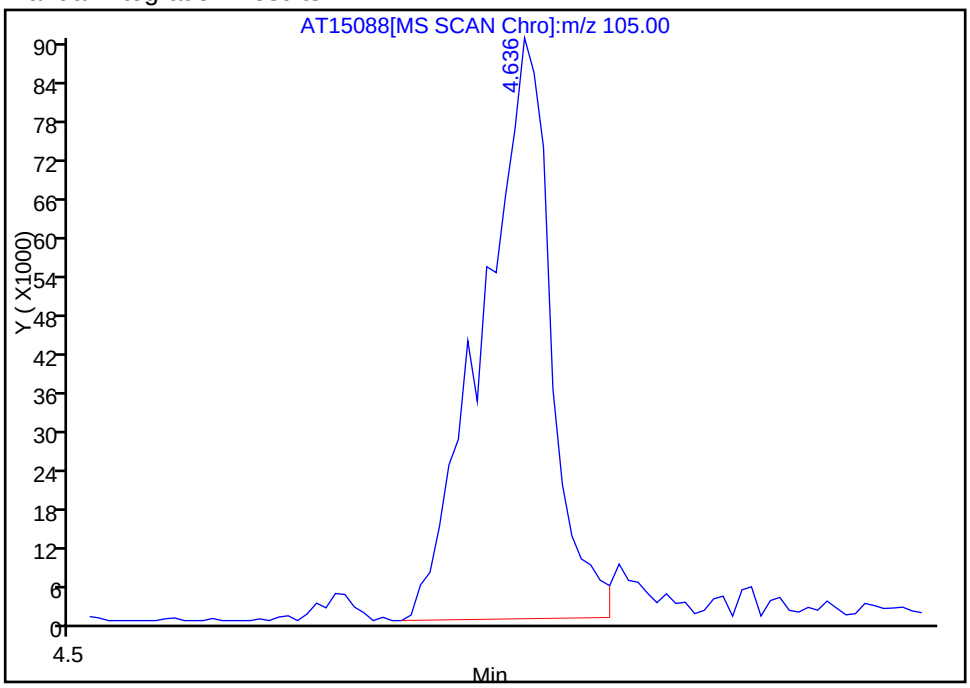
Processing Integration Results

RT: 4.62
Response: 23967
Amount: 1398.2833



Manual Integration Results

RT: 4.64
Response: 127321
Amount: 5018.4783



Reviewer: phama, 11-May-2010 18:07:06
Audit Action: Manually Integrated
Audit Reason: Other

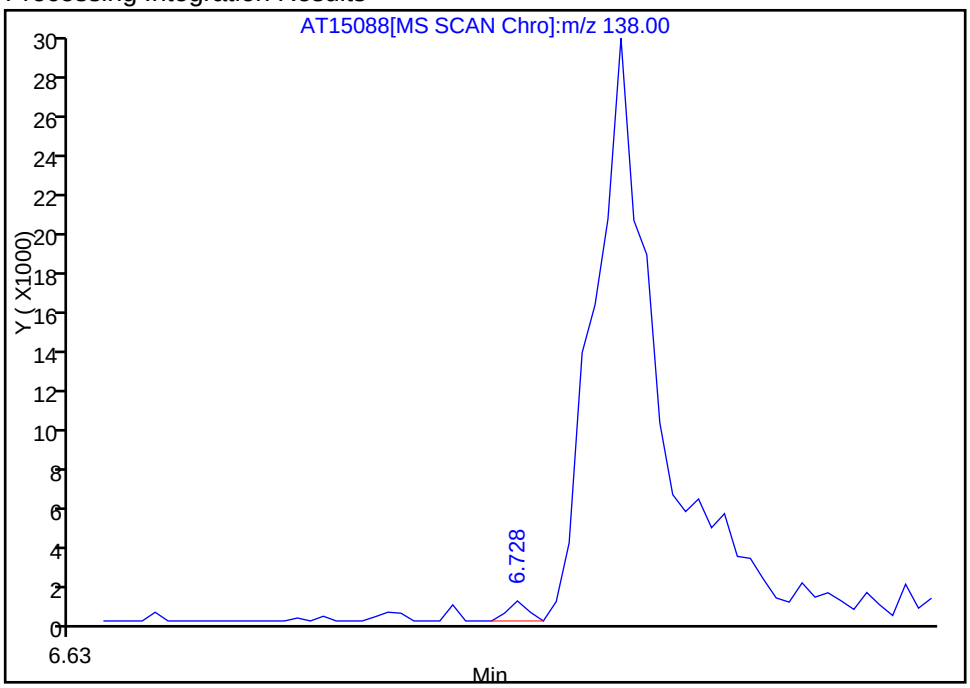
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Inj Date:	11-May-2010 17:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	10
Client ID:		Instrument:	TAC002
Sample Info:	ic std 1000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

77 4-Nitroaniline, Number: 1, m/z: 138 Type: quant, RT: 6.75

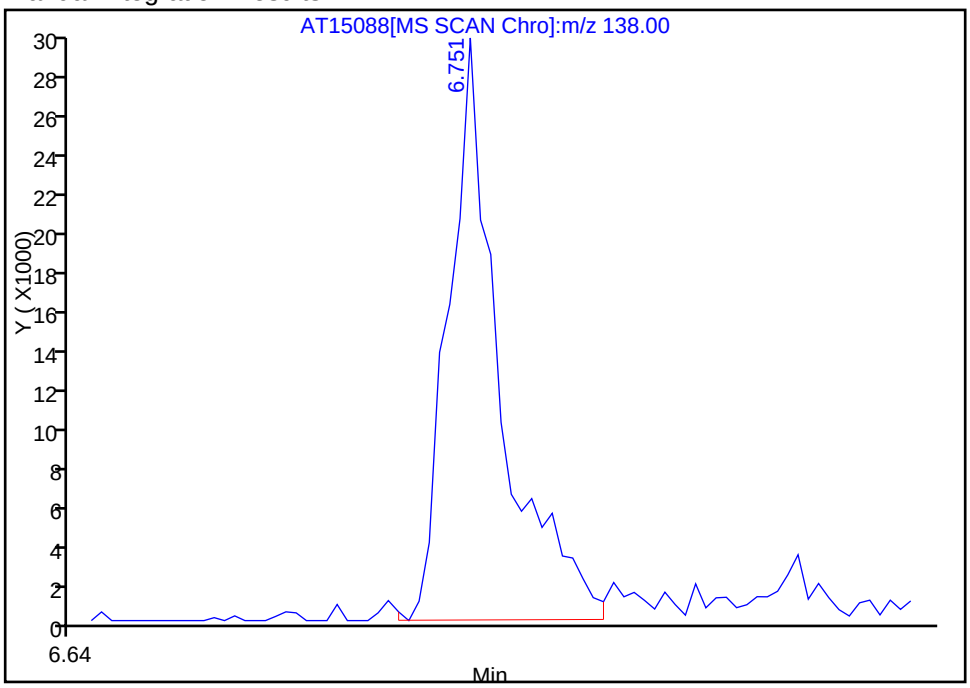
Processing Integration Results

RT: 6.73
Response: 320
Amount: 30.925319



Manual Integration Results

RT: 6.75
Response: 29629
Amount: 1269.2576



Reviewer: phama, 11-May-2010 18:07:06
Audit Action: Manually Integrated
Audit Reason: Wrong peak

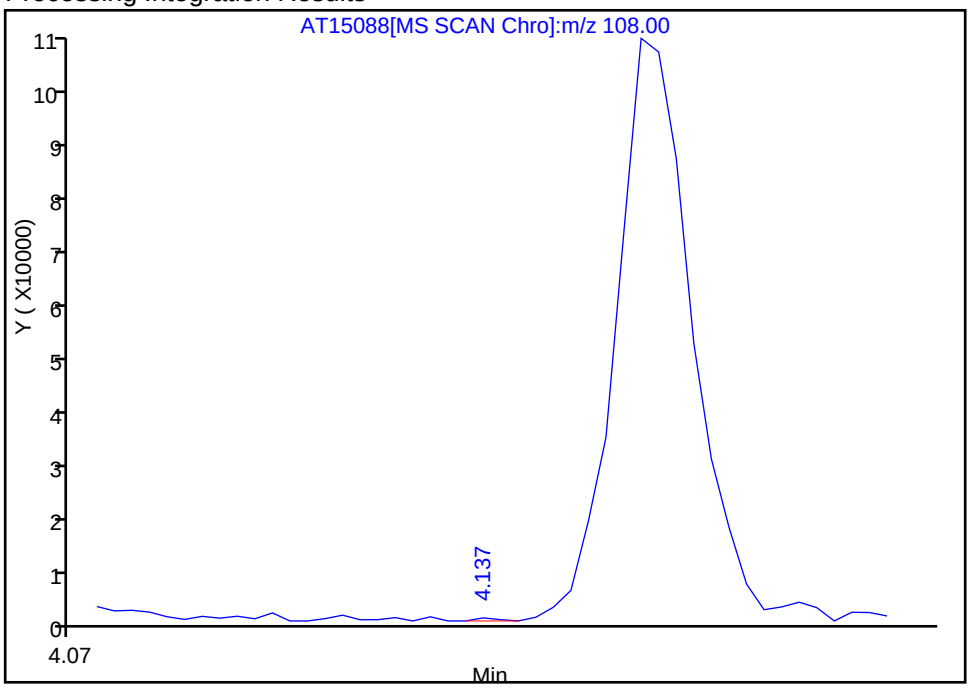
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Inj Date:	11-May-2010 17:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	10
Client ID:		Instrument:	TAC002
Sample Info:	ic std 1000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

36 3 & 4 Methylphenol, Number: 1, m/z: 108 Type: quant, RT: 4.16

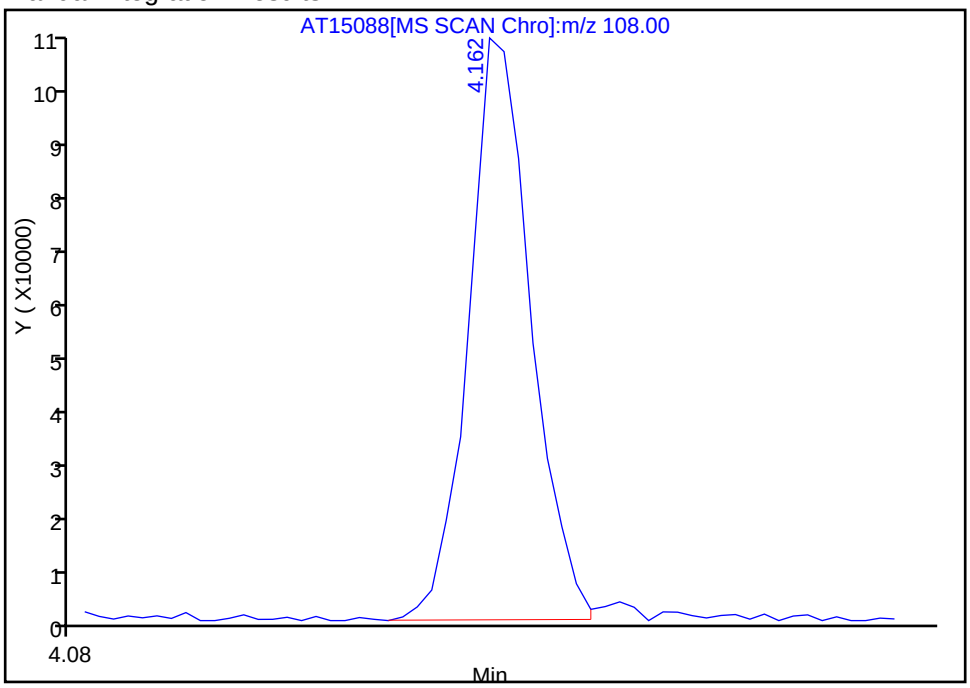
Processing Integration Results

RT: 4.14
Response: 130
Amount: 137.4051



Manual Integration Results

RT: 4.16
Response: 86258
Amount: 1093.0541



Reviewer: phama, 11-May-2010 18:07:06
Audit Action: Manually Integrated
Audit Reason: Wrong peak

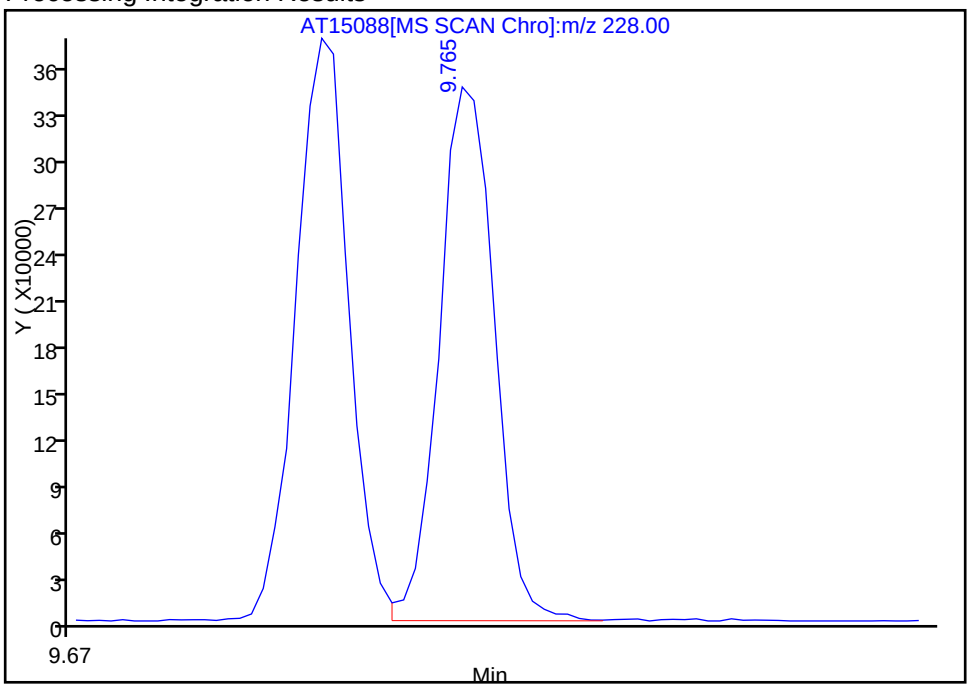
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Inj Date:	11-May-2010 17:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	10
Client ID:		Instrument:	TAC002
Sample Info:	ic std 1000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

99 Benzo[a]anthracene, Number: 1, m/z: 228 Type: quant, RT: 9.73

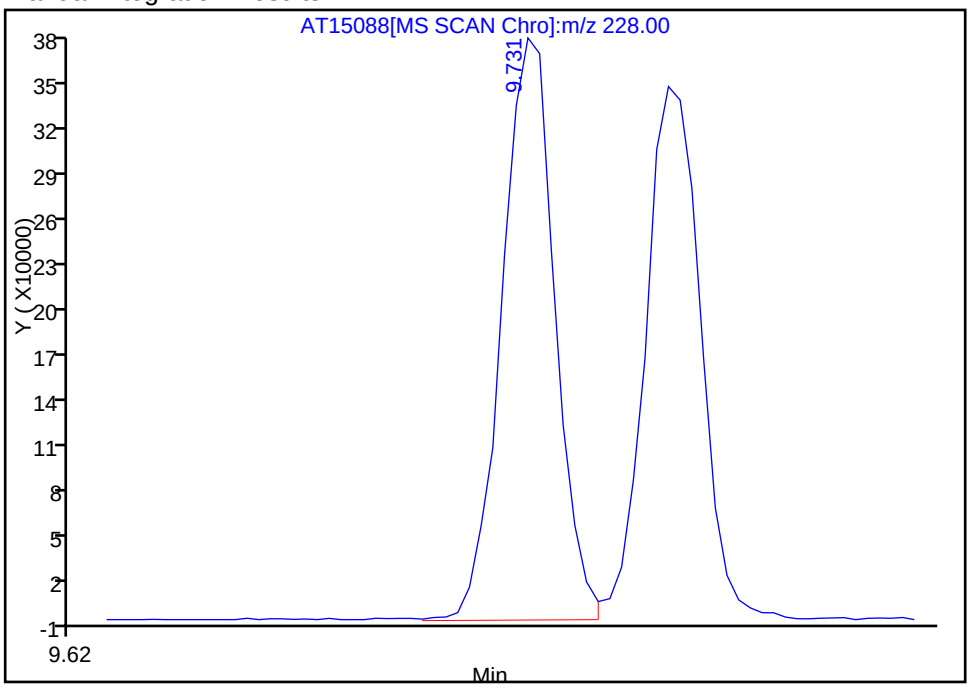
Processing Integration Results

RT: 9.76
Response: 320930
Amount: 881.9485



Manual Integration Results

RT: 9.73
Response: 337396
Amount: 1000.0343



Reviewer: phama, 11-May-2010 18:07:06
Audit Action: Manually Integrated
Audit Reason: Wrong peak

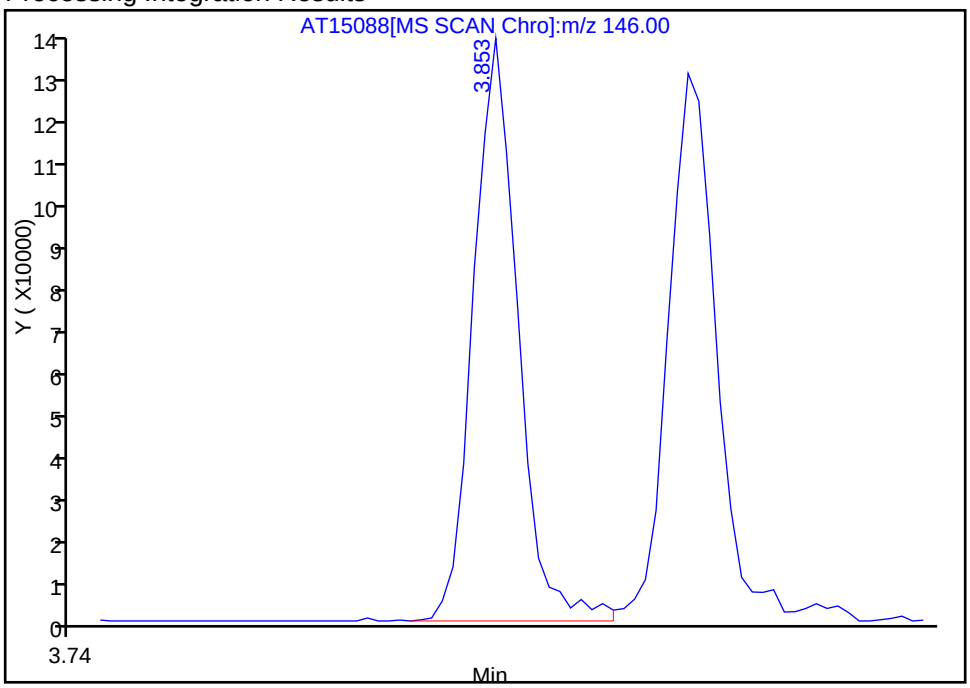
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Inj Date:	11-May-2010 17:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	10
Client ID:		Instrument:	TAC002
Sample Info:	ic std 1000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

31 1,4-Dichlorobenzene, Number: 1, m/z: 146 Type: quant, RT: 3.90

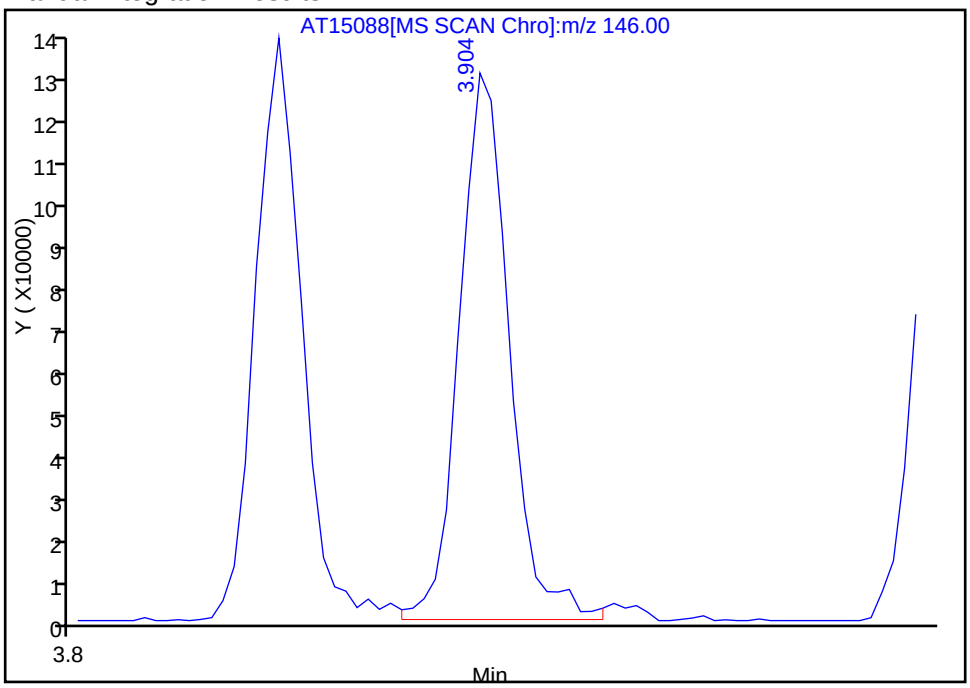
Processing Integration Results

RT: 3.85
Response: 107514
Amount: 1150.8249



Manual Integration Results

RT: 3.90
Response: 108304
Amount: 1070.8719



Reviewer: phama, 11-May-2010 18:07:06
Audit Action: Manually Integrated
Audit Reason: Wrong peak

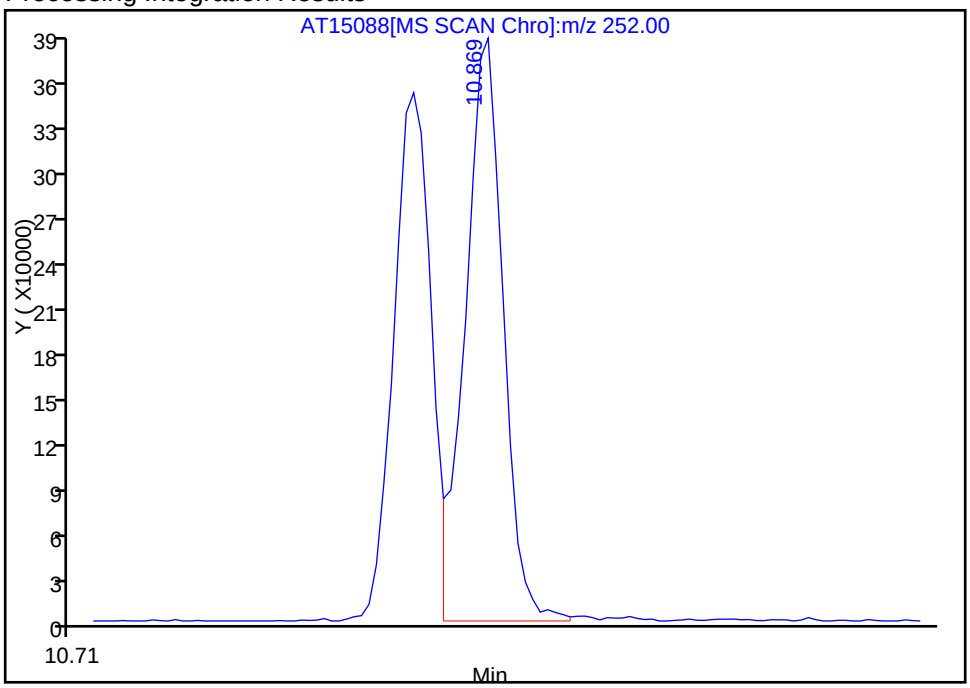
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15088.D		
Inj Date:	11-May-2010 17:16:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	10
Client ID:		Instrument:	TAC002
Sample Info:	ic std 1000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

105 Benzofluoranthene, Number: 1, m/z: 252 Type: quant, RT: 10.87

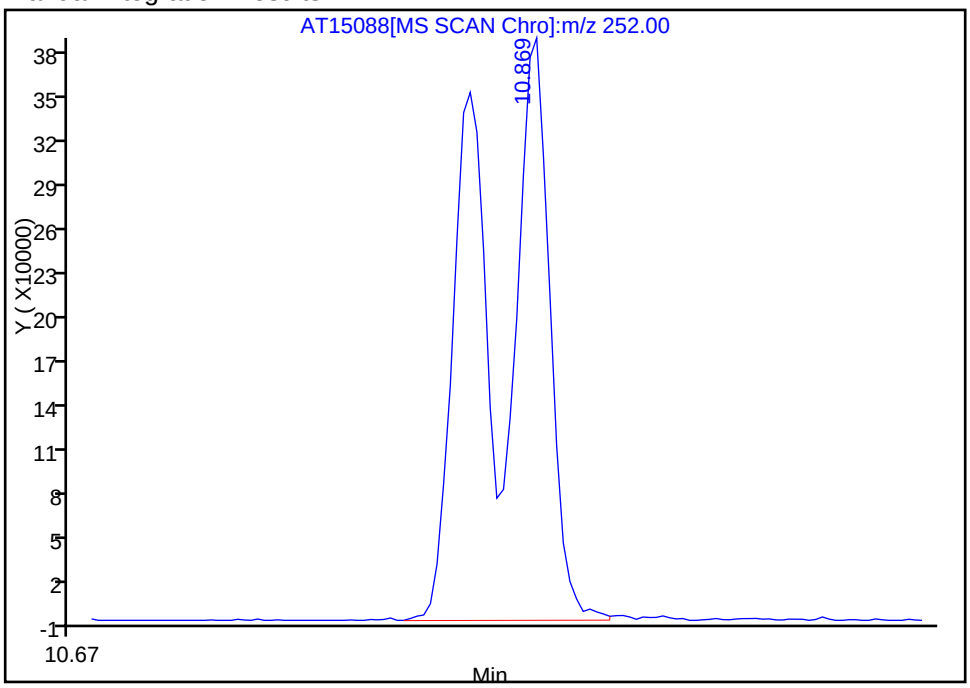
Processing Integration Results

RT: 10.87
Response: 387141
Amount: 1141.0989



Manual Integration Results

RT: 10.87
Response: 726981
Amount: 2076.5258



Reviewer: phama, 11-May-2010 18:07:06
Audit Action: Manually Integrated
Audit Reason: Other

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15089.D		
Lims ID:	ic std 2000 ppb	Client ID:	
Inject. Date:	11-May-2010 17:36:30	Dil. Factor:	1.0000
Sample Type:	IC, ICal Standard	Calib Level:	7
Sample ID:	ic std 2000 ppb		
Misc. Info.:	580-0008740-011		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	9
Lims Batch ID:	63269	Lims Sample ID:	11
Sublist:	chrom-8270C TAC002*sub8		
Detector:	MS SCAN		
Method:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\8270C TAC002.m		
Last Update:	26-May-2010 16:13:17	Calib Date:	11-May-2010 17:36:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15089.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		
Reviewed By:	phama	Date:	11-May-2010 18:11:22
Reviewed By:	phama	Date:	11-May-2010 18:37:47
Reviewed By:	phama	Date:	11-May-2010 18:46:35
Reviewed By:	phama	Date:	19-May-2010 10:02:21
Reviewed By:	phama	Date:	26-May-2010 16:12:34
Reviewed By:	phama	Date:	26-May-2010 16:13:17

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.892	3.893	-0.001	59019	994.5	
* 2 Naphthalene-d8	136	4.874	4.875	-0.001	256999	997.0	
* 3 Acenaphthene-d10	164	6.299	6.299	0.000	151380	968.0	
* 4 Phenanthrene-d10	188	7.522	7.520	0.002	250861	984.5	
* 5 Chrysene-d12	240	9.742	9.742	0.000	290386	974.0	
* 6 Perylene-d12	264	11.232	11.235	-0.003	272016	983.0	
$ 7 2-Fluorophenol	112	2.976	2.976	0.000	157974	2110.2	
$ 8 Phenol-d5	99	3.589	3.589	0.000	213056	2195.6	
$ 9 Nitrobenzene-d5	82	4.307	4.307	0.000	164438	2079.4	
$ 10 2-Fluorobiphenyl	172	5.740	5.740	0.000	427340	1980.5	
$ 11 2,4,6-Tribromophenol	329	6.946	6.944	0.002	93352	2156.2	
$ 12 Terphenyl-d14	244	8.828	8.828	0.000	586073	1997.0	
22 Pyridine	52	2.246	2.249	-0.003	344261	9871.4	
23 N-Nitrosodimethylamine	42	2.249	2.249	0.000	149852	10032	
24 Cyclohexanone	55	3.186	3.183	0.003	96177	2123.7	
25 Phenol	94	3.603	3.597	0.006	205399	2281.6	
26 Aniline	93	3.657	3.654	0.003	190256	2003.9	
27 Bis(2-chloroethyl)ether	93	3.688	3.688	0.000	189678	2150.5	
28 2-Chlorophenol	128	3.736	3.739	-0.003	183940	2280.9	
29 n-Decane	57	3.753	3.753	0.000	142499	2151.6	
30 1,3-Dichlorobenzene	146	3.853	3.853	0.000	202603	2254.6	
31 1,4-Dichlorobenzene	146	3.907	3.904	0.003	196755	2059.5	
32 Benzyl alcohol	108	3.983	3.983	0.000	112936	2170.8	
33 1,2-Dichlorobenzene	146	4.020	4.020	0.000	191126	2097.4	
34 2-Methylphenol	108	4.051	4.051	0.000	166198	2232.0	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
35 2,2'-oxybis[1-chloropropane]	45	4.085	4.080	0.005	154271	2110.1	
36 3 & 4 Methylphenol	108	4.165	4.162	0.003	164342	2204.6	
38 N-Nitrosodi-n-propylamine	70	4.185	4.182	0.003	107432	2226.9	
37 Acetophenone	105	4.190	4.191	-0.001	211269	2077.9	
39 Hexachloroethane	117	4.278	4.279	-0.001	70944	2120.5	
40 Nitrobenzene	77	4.324	4.321	0.003	155244	2072.3	
41 Isophorone	82	4.505	4.503	0.002	294277	2009.9	
42 2-Nitrophenol	139	4.568	4.568	0.000	107614	2042.1	
43 2,4-Dimethylphenol	107	4.582	4.582	0.000	148424	2195.1	
44 Benzoic acid	105	4.659	4.636	0.023	311036	10490	M
45 Bis(2-chloroethoxy)methane	93	4.664	4.665	-0.001	198549	2210.1	
46 2,4-Dichlorophenol	162	4.750	4.750	0.000	151221	2168.6	
47 1,2,4-Trichlorobenzene	180	4.826	4.823	0.003	171034	2037.1	
48 Naphthalene	128	4.891	4.892	-0.001	556243	2049.0	
49 4-Chloroaniline	127	4.925	4.923	0.002	161993	2052.4	
50 Hexachlorobutadiene	225	4.988	4.985	0.003	97537	2103.8	
51 4-Chloro-3-methylphenol	107	5.300	5.297	0.003	127977	2213.1	
52 2-Methylnaphthalene	142	5.448	5.445	0.003	358139	2128.2	
53 1-Methylnaphthalene	142	5.527	5.527	0.000	359308	1999.0	
54 Hexachlorocyclopentadiene	237	5.575	5.573	0.002	108006	1953.4	
55 2,4,6-Trichlorophenol	196	5.669	5.666	0.003	103167	2101.0	
56 2,3-Dichlorobenzenamine	161	5.672	5.672	0.000	184350	2010.3	
57 2,4,5-Trichlorophenol	196	5.695	5.695	0.000	116389	2035.7	
58 1,1'-Biphenyl	154	5.825	5.823	0.002	433945	1956.1	
59 2-Chloronaphthalene	162	5.845	5.842	0.003	346379	1955.8	
60 2-Nitroaniline	65	5.919	5.919	0.000	61812	2102.0	
62 Dimethyl phthalate	163	6.066	6.064	0.002	344345	1953.3	
63 2,6-Dinitrotoluene	165	6.115	6.112	0.003	94211	1993.5	
64 Acenaphthylene	152	6.186	6.186	0.000	536022	2001.4	
65 3-Nitroaniline	138	6.251	6.251	0.000	28815	848.1	
66 Acenaphthene	153	6.328	6.325	0.003	363550	2007.5	
67 2,4-Dinitrophenol	184	6.339	6.336	0.003	213006	10529	
68 4-Nitrophenol	109	6.376	6.373	0.003	130873	9738.9	
69 2,4-Dinitrotoluene	165	6.444	6.444	0.000	113111	1999.4	
70 Dibenzofuran	168	6.470	6.467	0.003	489557	1997.5	
71 2,3,5,6-Tetrachlorophenol	232	6.529	6.526	0.003	94581	1895.3	
72 2,3,4,6-Tetrachlorophenol	232	6.563	6.560	0.003	97851	2091.7	
73 Diethyl phthalate	149	6.643	6.643	0.000	324060	1859.8	
76 4-Chlorophenyl phenyl ether	204	6.745	6.745	0.000	183464	2021.4	
75 Fluorene	166	6.750	6.751	-0.001	397952	1985.3	
77 4-Nitroaniline	138	6.756	6.751	0.005	38620	1755.0	M
78 4,6-Dinitro-2-methylphenol	198	6.779	6.776	0.003	319367	10579	
79 N-Nitrosodiphenylamine	169	6.838	6.839	-0.001	297301	1947.7	
80 Azobenzene	77	6.875	6.873	0.002	296589	2065.3	
81 4-Bromophenyl phenyl ether	248	7.148	7.148	0.000	127182	2000.1	
82 Hexachlorobenzene	284	7.202	7.199	0.003	163620	2030.0	
83 Pentachlorophenol	266	7.361	7.358	0.003	82215	2008.4	
84 n-Octadecane	43	7.415	7.415	0.000	80518	1973.6	
86 Phenanthrene	178	7.542	7.543	0.000	545746	2017.7	
87 Anthracene	178	7.582	7.582	0.000	537541	2050.2	
89 Carbazole	167	7.710	7.707	0.003	196290	869.8	
90 Di-n-butyl phthalate	149	7.988	7.988	0.000	651866	2076.6	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
95 Fluoranthene	202	8.522	8.522	0.000	623364	2203.1	
94 Benzidine	184	8.627	8.624	0.003	108331	3705.2	
93 Pyrene	202	8.712	8.709	0.003	672522	2077.7	
97 Butyl benzyl phthalate	149	9.223	9.223	0.000	273694	2014.2	
98 3,3'-Dichlorobenzidine	252	9.699	9.700	-0.001	340816	3748.7	
99 Benzo[a]anthracene	228	9.731	9.731	0.000	634627	1972.6	
101 Bis(2-ethylhexyl) phthalate	149	9.733	9.731	0.002	395748	1919.4	
100 Chrysene	228	9.768	9.765	0.003	596318	1753.0	
102 Di-n-octyl phthalate	149	10.412	10.412	0.000	657836	2224.3	
103 Benzo[b]fluoranthene	252	10.843	10.841	0.002	669530	2019.8	
105 Benzofluoranthene	252	10.843	10.869	-0.026	1388715	4046.9	M
104 Benzo[k]fluoranthene	252	10.869	10.869	0.000	723019	2063.9	
106 Benzo[a]pyrene	252	11.178	11.175	0.003	670116	2035.4	
107 Indeno[1,2,3-cd]pyrene	276	12.512	12.504	0.008	841426	2175.6	
108 Dibenz(a,h)anthracene	278	12.535	12.529	0.006	703683	2204.8	
109 Benzo[g,h,i]perylene	276	12.881	12.878	0.003	714576	2183.4	

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 26-May-2010 16:13:17 Chrom Revision: 1.1 20-Apr-2010 06:13:18

Data File: \\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15089.D

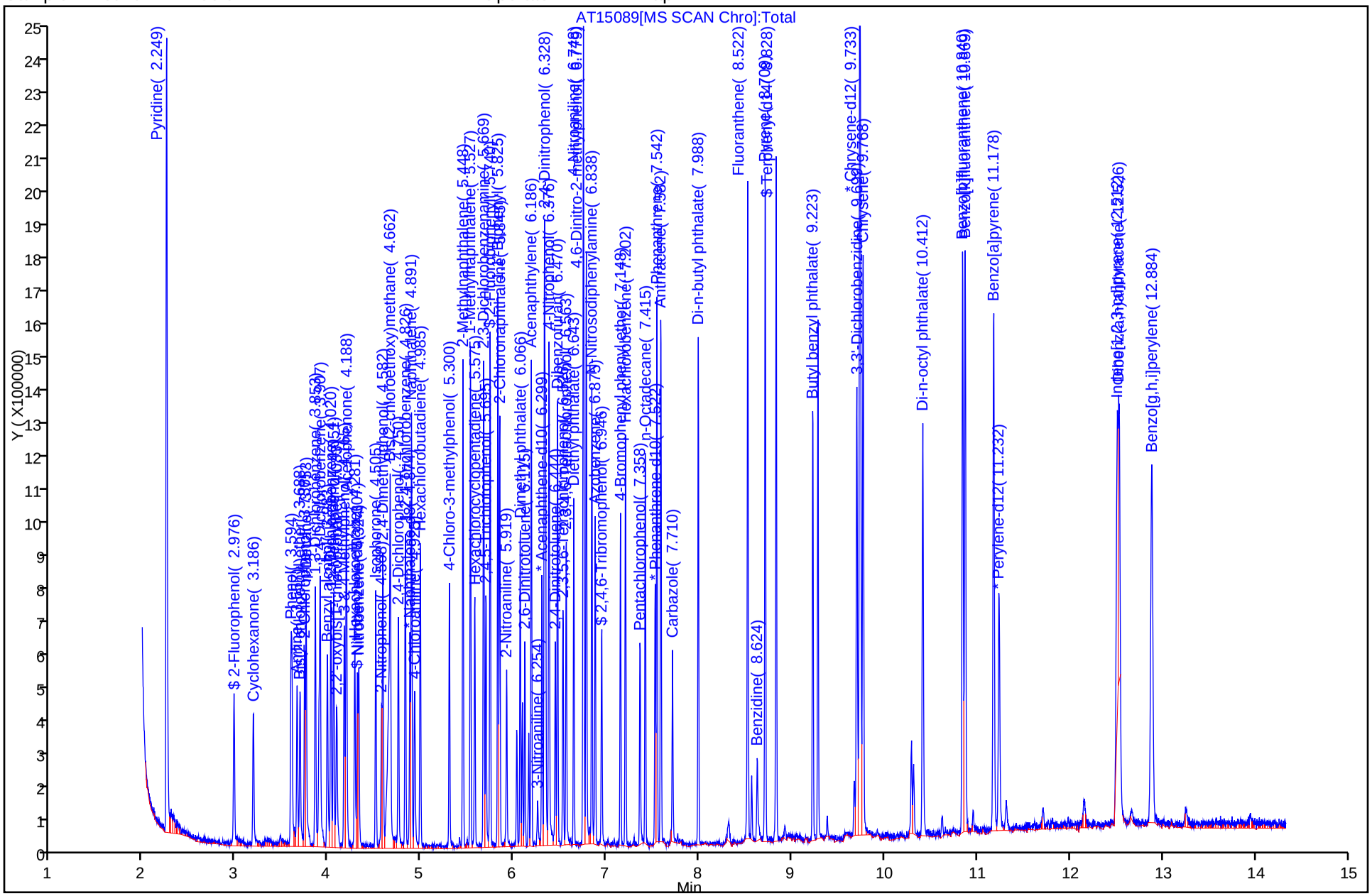
Inj Date: 11-May-2010 17:36:30 Limit Group: 8270C Standard

Lims Batch ID: 63269 Lims Sample ID: 11

Client ID: Instrument: TAC002

Sample Info: ic std 2000 ppb

Sample Amount: 1.00 ul Operator: ap



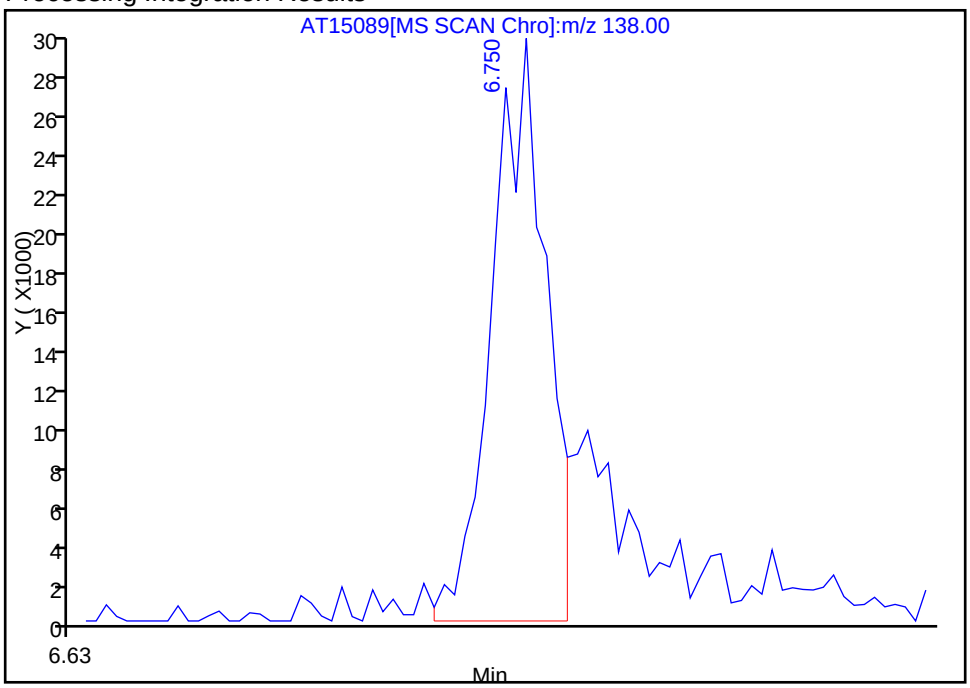
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15089.D		
Inj Date:	11-May-2010 17:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	11
Client ID:		Instrument:	TAC002
Sample Info:	ic std 2000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

77 4-Nitroaniline, Number: 1, m/z: 138 Type: quant, RT: 6.75

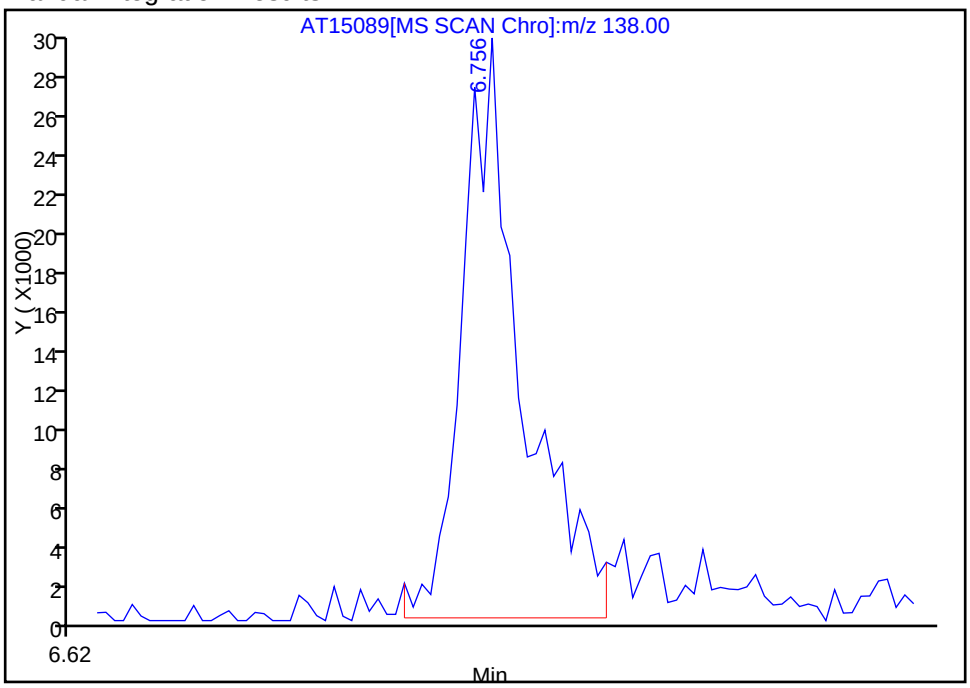
Processing Integration Results

RT: 6.75
Response: 29694
Amount: 980.8039



Manual Integration Results

RT: 6.76
Response: 38620
Amount: 1755.0455



Reviewer: phama, 11-May-2010 18:46:35
Audit Action: Manually Integrated
Audit Reason: Other

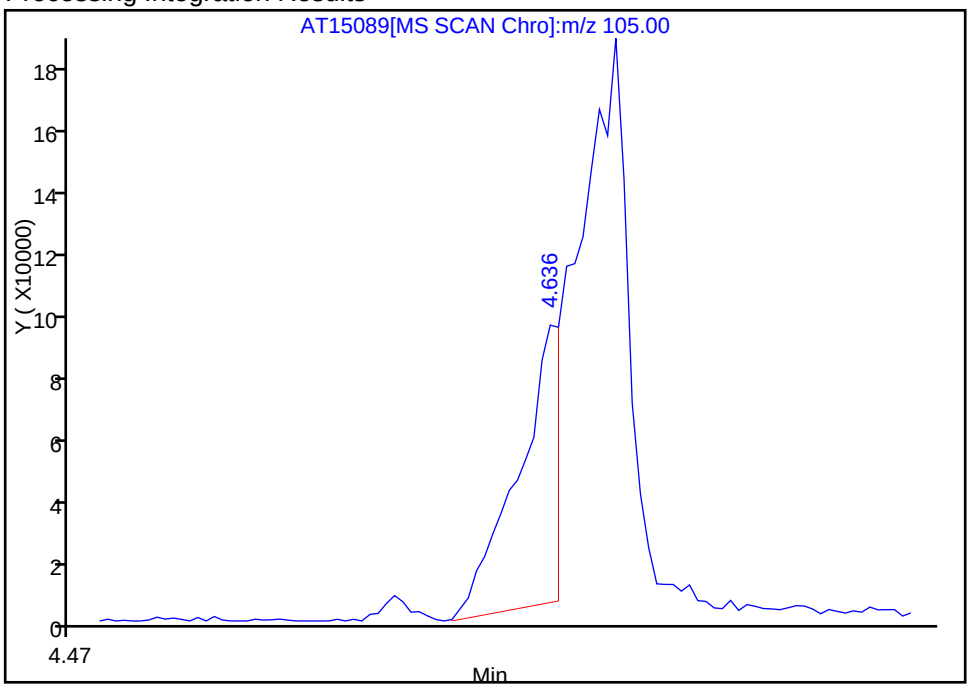
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15089.D		
Inj Date:	11-May-2010 17:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	11
Client ID:		Instrument:	TAC002
Sample Info:	ic std 2000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

44 Benzoic acid, Number: 1, m/z: 105 Type: quant, RT: 4.64

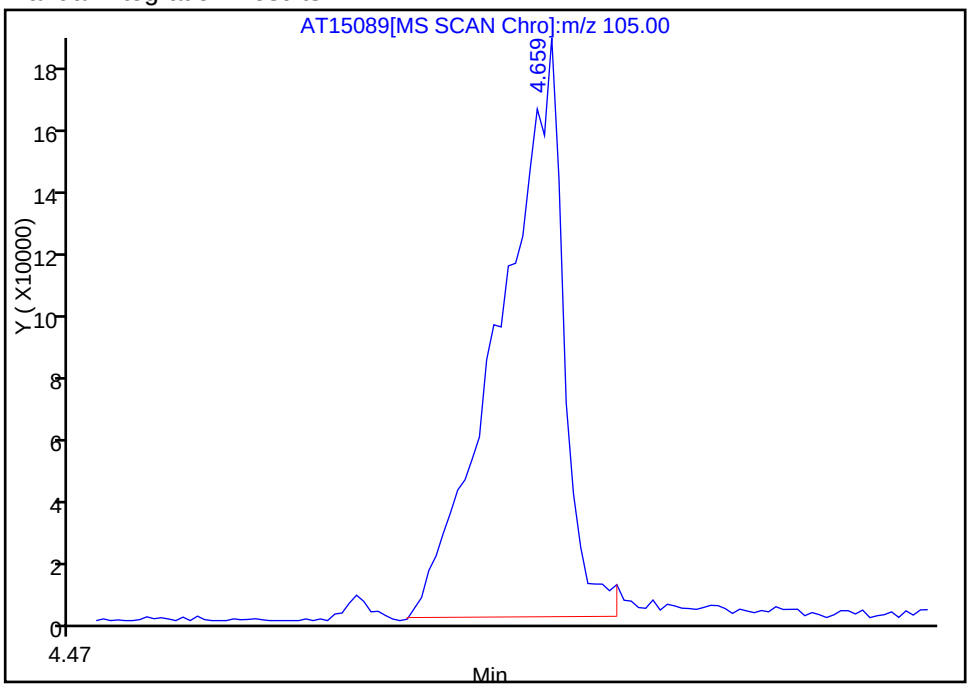
Processing Integration Results

RT: 4.64
Response: 81696
Amount: 3546.6199



Manual Integration Results

RT: 4.66
Response: 311036
Amount: 10490



Reviewer: phama, 11-May-2010 18:11:22
Audit Action: Manually Integrated
Audit Reason: Other

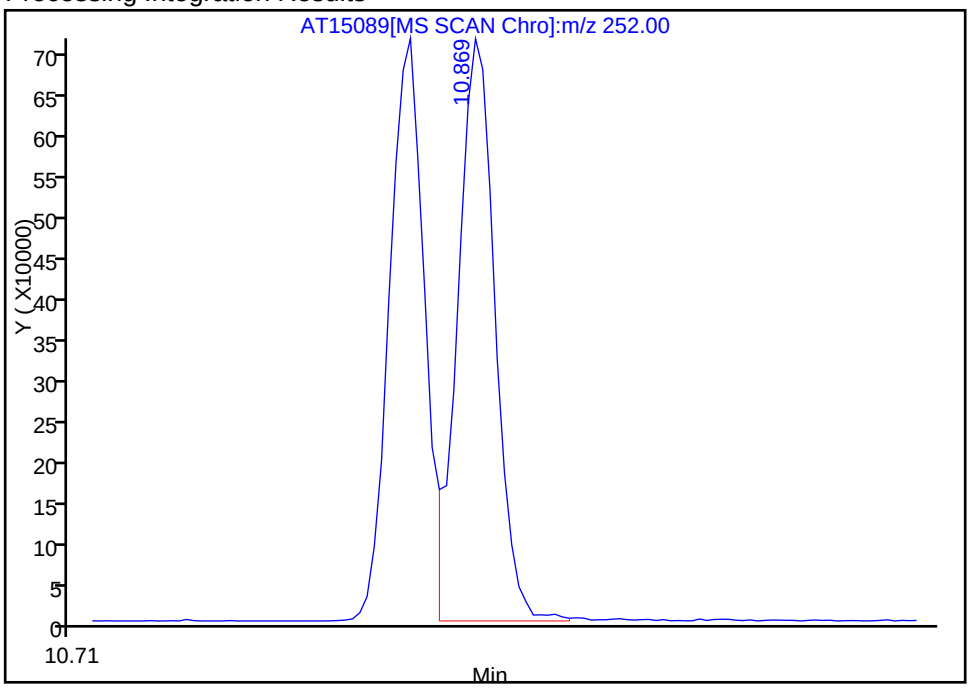
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15089.D		
Inj Date:	11-May-2010 17:36:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	11
Client ID:		Instrument:	TAC002
Sample Info:	ic std 2000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

105 Benzofluoranthene, Number: 1, m/z: 252 Type: quant, RT: 10.87

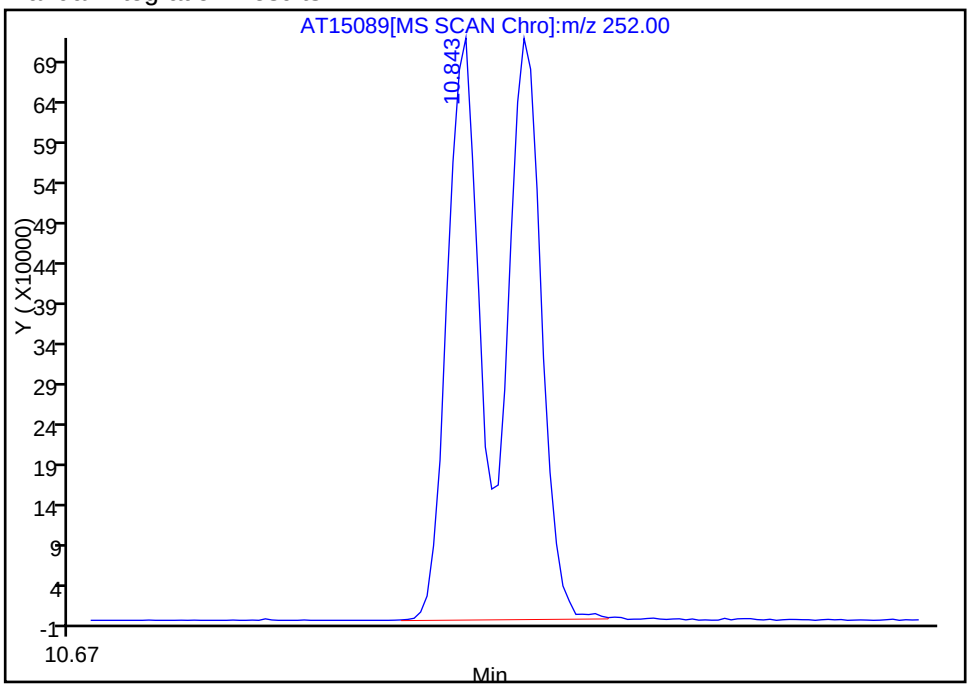
Processing Integration Results

RT: 10.87
Response: 723019
Amount: 3333.5642



Manual Integration Results

RT: 10.84
Response: 1388715
Amount: 4046.9443



Reviewer: phama, 11-May-2010 18:11:22
Audit Action: Manually Integrated
Audit Reason: Other

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15090.D		
Lims ID:	ic std 5000 ppb	Client ID:	
Inject. Date:	11-May-2010 17:59:30	Dil. Factor:	1.0000
Sample Type:	IC, ICal Standard	Calib Level:	8
Sample ID:	ic std 5000 ppb		
Misc. Info.:	580-0008740-012		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	10
Lims Batch ID:	63269	Lims Sample ID:	12
Sublist:	chrom-8270C TAC002*sub8		
Detector:	MS SCAN		
Method:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\8270C TAC002.m		
Last Update:	19-May-2010 09:59:21	Calib Date:	11-May-2010 17:36:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15089.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		
Reviewed By:	phama	Date:	11-May-2010 18:33:39
Reviewed By:	phama	Date:	11-May-2010 18:50:04
Reviewed By:	phama	Date:	19-May-2010 10:00:15
Reviewed By:	phama	Date:	26-May-2010 16:12:39

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.893	3.893	0.000	70044	994.5	
* 2 Naphthalene-d8	136	4.875	4.875	0.000	294962	997.0	
* 3 Acenaphthene-d10	164	6.302	6.299	0.003	165014	968.0	
* 4 Phenanthrene-d10	188	7.525	7.520	0.005	277752	984.5	
* 5 Chrysene-d12	240	9.748	9.742	0.006	302183	974.0	
* 6 Perylene-d12	264	11.238	11.235	0.003	282925	983.0	
$ 7 2-Fluorophenol	112	2.979	2.976	0.003	489366	5508.0	
$ 8 Phenol-d5	99	3.592	3.589	0.003	622329	5403.9	
$ 9 Nitrobenzene-d5	82	4.307	4.307	0.000	465752	5131.6	
$ 10 2-Fluorobiphenyl	172	5.743	5.740	0.003	1187343	5048.0	
$ 11 2,4,6-Tribromophenol	329	6.946	6.944	0.002	274384	5723.9	
$ 12 Terphenyl-d14	244	8.831	8.828	0.003	1602546	5247.4	
22 Pyridine	52	2.249	2.249	0.000	1044573	25050	5
23 N-Nitrosodimethylamine	42	2.246	2.249	-0.003	446108	25158	5
24 Cyclohexanone	55	3.180	3.183	-0.003	254930	4743.1	
25 Phenol	94	3.603	3.597	0.006	588260	5505.9	5
26 Aniline	93	3.657	3.654	0.003	534430	4742.9	
27 Bis(2-chloroethyl)ether	93	3.688	3.688	0.000	524897	4997.9	5
28 2-Chlorophenol	128	3.739	3.739	0.000	510973	5338.9	5
29 n-Decane	57	3.753	3.753	0.000	395540	5032.2	5
30 1,3-Dichlorobenzene	146	3.853	3.853	0.000	557086	5223.5	5
31 1,4-Dichlorobenzene	146	3.907	3.904	0.003	592078	5222.0	5
32 Benzyl alcohol	108	3.983	3.983	0.000	302076	4882.3	5
33 1,2-Dichlorobenzene	146	4.023	4.020	0.003	516857	4779.1	
34 2-Methylphenol	108	4.051	4.051	0.000	470965	5329.4	5
35 2,2'-oxybis[1-chloropropane]	45	4.083	4.080	0.003	410338	4729.0	
36 3 & 4 Methylphenol	108	4.168	4.162	0.006	477945	5402.4	5

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
38 N-Nitrosodi-n-propylamine	70	4.188	4.182	0.006	283599	4953.3	
37 Acetophenone	105	4.191	4.191	0.000	615380	5099.7	5
39 Hexachloroethane	117	4.279	4.279	0.000	197962	4985.6	
40 Nitrobenzene	77	4.324	4.321	0.003	439430	5110.7	5
41 Isophorone	82	4.508	4.503	0.005	856977	5099.7	5
42 2-Nitrophenol	139	4.568	4.568	0.000	311200	5124.9	5
43 2,4-Dimethylphenol	107	4.585	4.582	0.003	408566	5264.8	5
44 Benzoic acid	105	4.699	4.636	0.063	1194558	24898	M
45 Bis(2-chloroethoxy)methane	93	4.665	4.665	0.000	556248	5394.9	5
46 2,4-Dichlorophenol	162	4.753	4.750	0.003	425123	5311.9	5
47 1,2,4-Trichlorobenzene	180	4.826	4.823	0.003	477986	4960.3	
48 Naphthalene	128	4.892	4.892	0.000	1545088	4958.9	
49 4-Chloroaniline	127	4.928	4.923	0.005	318708	4852.3	
50 Hexachlorobutadiene	225	4.988	4.985	0.003	260420	4884.7	
51 4-Chloro-3-methylphenol	107	5.303	5.297	0.006	368030	5545.3	5
52 2-Methylnaphthalene	142	5.448	5.445	0.003	1005168	5204.3	5
53 1-Methylnaphthalene	142	5.530	5.527	0.003	1021776	4953.1	
54 Hexachlorocyclopentadiene	237	5.576	5.573	0.003	313689	5178.4	5
55 2,4,6-Trichlorophenol	196	5.669	5.666	0.003	309979	5791.3	5
56 2,3-Dichlorobenzenamine	161	5.678	5.672	0.006	479825	4800.0	
57 2,4,5-Trichlorophenol	196	5.698	5.695	0.003	334942	5374.2	5
58 1,1'-Biphenyl	154	5.825	5.823	0.002	1235392	5108.6	5
59 2-Chloronaphthalene	162	5.845	5.842	0.003	979403	5073.2	5
60 2-Nitroaniline	65	5.922	5.919	0.003	158693	4943.2	
62 Dimethyl phthalate	163	6.069	6.064	0.005	1005793	5234.0	5
63 2,6-Dinitrotoluene	165	6.121	6.112	0.009	263138	5095.3	5
64 Acenaphthylene	152	6.189	6.186	0.003	1514970	5189.2	5
65 3-Nitroaniline	138	6.257	6.251	0.006	22027	583.9	
66 Acenaphthene	153	6.331	6.325	0.006	1023708	5185.8	5
67 2,4-Dinitrophenol	184	6.345	6.336	0.009	742596	24589	
68 4-Nitrophenol	109	6.385	6.373	0.011	377284	25418	5
69 2,4-Dinitrotoluene	165	6.450	6.444	0.006	315316	5089.0	5
70 Dibenzofuran	168	6.470	6.467	0.003	1400855	5243.7	5
71 2,3,5,6-Tetrachlorophenol	232	6.529	6.526	0.003	284012	5189.2	5
72 2,3,4,6-Tetrachlorophenol	232	6.563	6.560	0.003	304461	5970.4	5
73 Diethyl phthalate	149	6.648	6.643	0.005	928791	4890.1	
76 4-Chlorophenyl phenyl ether	204	6.748	6.745	0.003	518215	5237.9	5
75 Fluorene	166	6.751	6.751	0.000	1120777	5129.4	5
77 4-Nitroaniline	138	6.765	6.756	0.009	103394	5033.7	5M
78 4,6-Dinitro-2-methylphenol	198	6.785	6.776	0.009	1018503	24853	
79 N-Nitrosodiphenylamine	169	6.841	6.839	0.002	670223	3965.8	
80 Azobenzene	77	6.878	6.873	0.005	819529	5154.3	5
81 4-Bromophenyl phenyl ether	248	7.151	7.148	0.003	352178	4999.0	
82 Hexachlorobenzene	284	7.205	7.199	0.006	453554	5067.8	5
83 Pentachlorophenol	266	7.361	7.358	0.003	239915	5166.4	5
84 n-Octadecane	43	7.418	7.415	0.003	213202	4720.0	
86 Phenanthrene	178	7.545	7.543	0.003	1532279	5116.6	5
87 Anthracene	178	7.585	7.582	0.003	1504786	5183.7	5
89 Carbazole	167	7.713	7.707	0.006	249425	998.3	
90 Di-n-butyl phthalate	149	7.991	7.988	0.003	1820803	5238.8	5
95 Fluoranthene	202	8.525	8.522	0.003	1730690	5524.3	5
94 Benzidine	184	8.630	8.624	0.006	215679	10147	5

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
93 Pyrene	202	8.715	8.709	0.006	1850016	5162.1	5
97 Butyl benzyl phthalate	149	9.226	9.223	0.003	787062	5566.0	5
98 3,3'-Dichlorobenzidine	252	9.705	9.700	0.005	788978	8339.3	
99 Benzo[a]anthracene	228	9.736	9.731	0.005	1776570	5306.5	5
101 Bis(2-ethylhexyl) phthalate	149	9.734	9.731	0.003	1108122	5164.7	5
100 Chrysene	228	9.773	9.765	0.008	1648285	4656.4	5
102 Di-n-octyl phthalate	149	10.415	10.412	0.003	1822532	5924.9	5
103 Benzo[b]fluoranthene	252	10.849	10.841	0.008	1924414	5581.7	5
105 Benzofluoranthene	252	10.875	10.869	0.006	3863209	10824	5M
104 Benzo[k]fluoranthene	252	10.875	10.869	0.006	1936645	5315.0	5
106 Benzo[a]pyrene	252	11.184	11.175	0.009	1869590	5459.6	5
107 Indeno[1,2,3-cd]pyrene	276	12.518	12.518	0.000	2326614	5783.7	5
108 Dibenz(a,h)anthracene	278	12.544	12.529	0.015	1973524	5945.1	5
109 Benzo[g,h,i]perylene	276	12.893	12.878	0.015	1915907	5628.4	5

QC Flag Legend

Processing Flags
5 - Exceeded Maximum Amount

Review Flags
M - Manually Integrated

Report Date: 26-May-2010 16:12:41 Chrom Revision: 1.1 20-Apr-2010 06:13:18

Data File: \\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15090.D

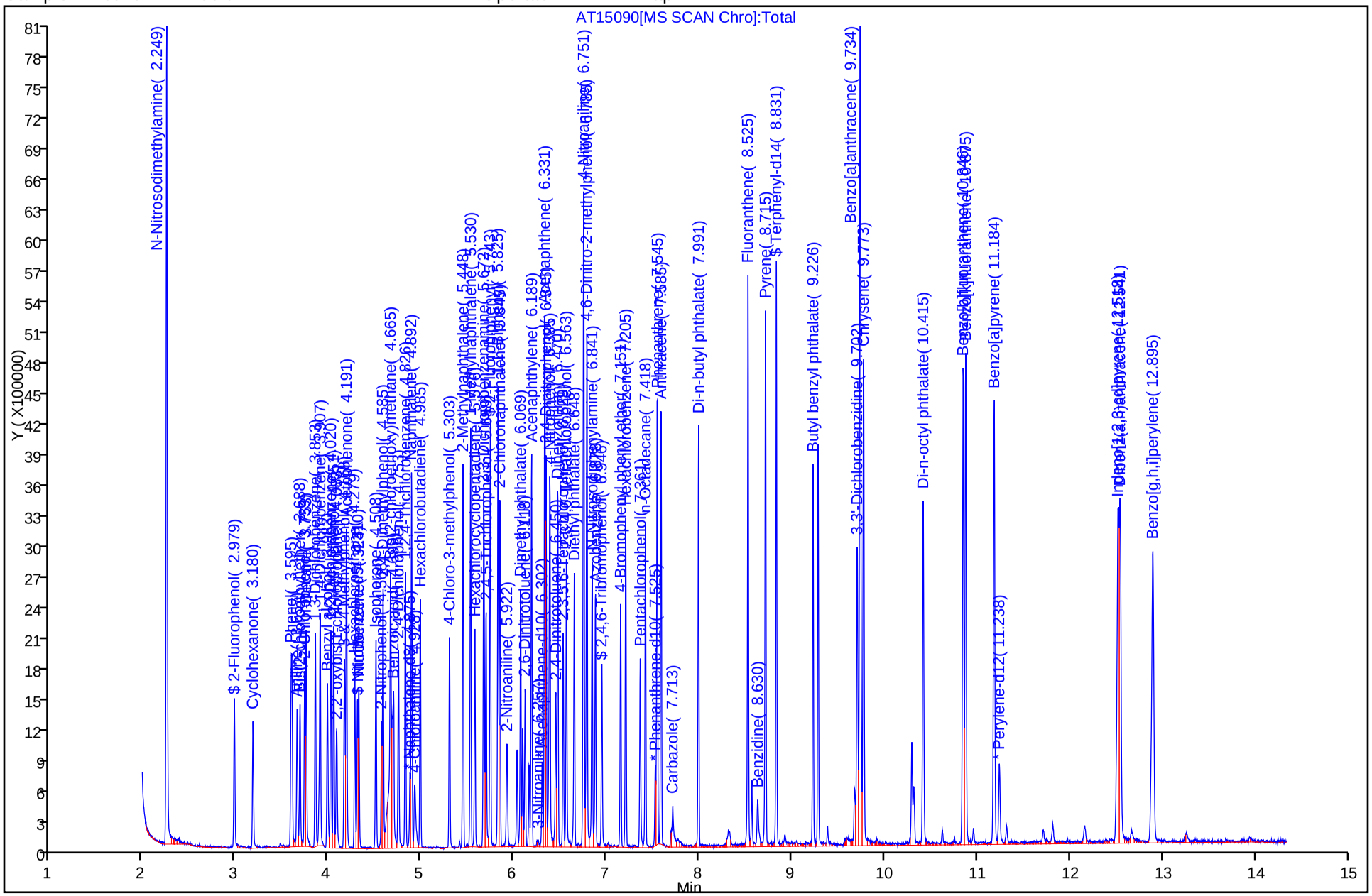
Inj Date: 11-May-2010 17:59:30 Limit Group: 8270C Standard

Lims Batch ID: 63269 Lims Sample ID: 12

Client ID: Instrument: TAC002

Sample Info: ic std 5000 ppb

Sample Amount: 1.00 ul Operator: ap



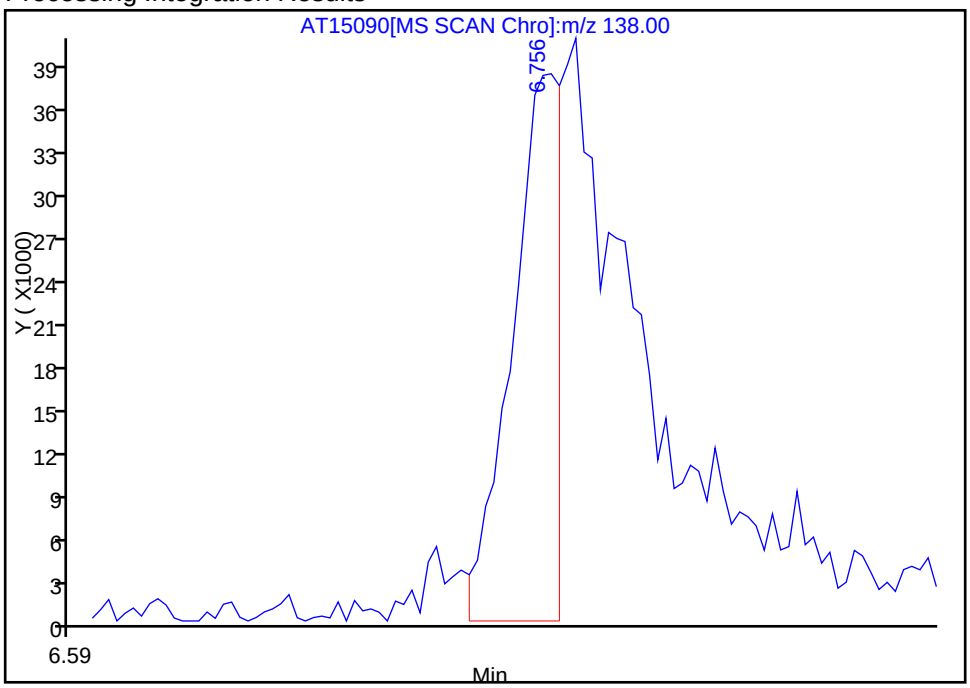
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15090.D		
Inj Date:	11-May-2010 17:59:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	12
Client ID:		Instrument:	TAC002
Sample Info:	ic std 5000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

77 4-Nitroaniline, Number: 1, m/z: 138 Type: quant, RT: 6.76

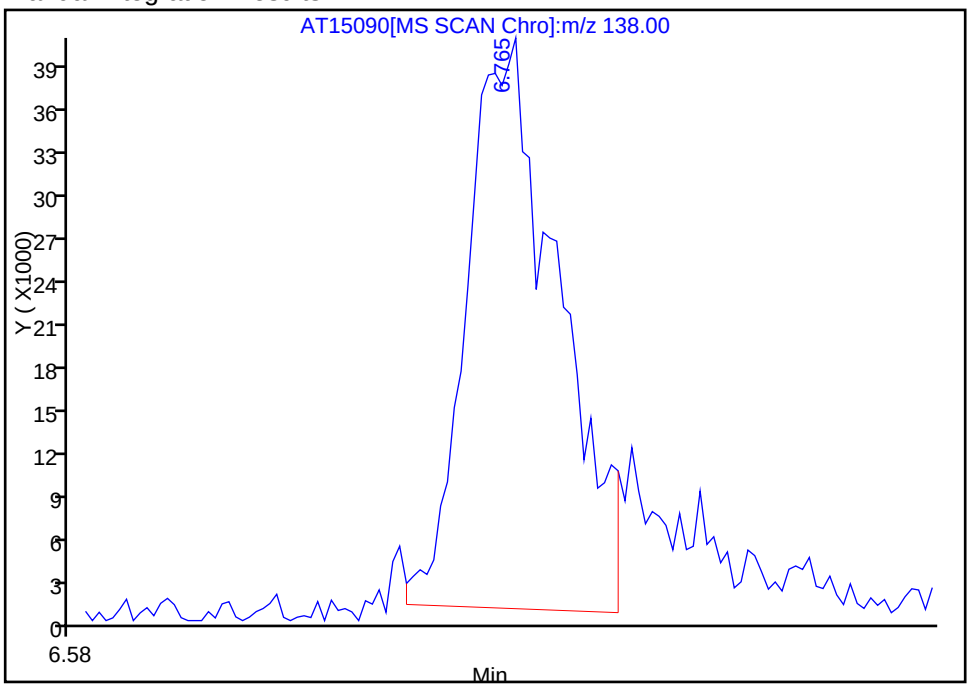
Processing Integration Results

RT: 6.76
Response: 40696
Amount: 1087.6251



Manual Integration Results

RT: 6.76
Response: 103394
Amount: 5033.7110



Reviewer: phama, 11-May-2010 18:33:39
Audit Action: Manually Integrated
Audit Reason: Other

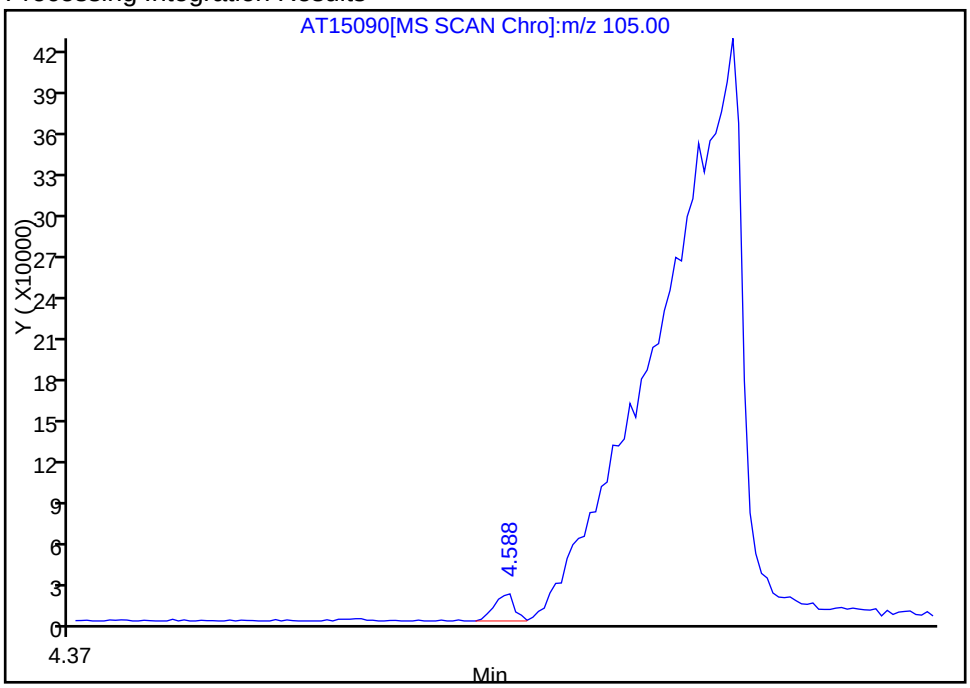
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15090.D		
Inj Date:	11-May-2010 17:59:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	12
Client ID:		Instrument:	TAC002
Sample Info:	ic std 5000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

44 Benzoic acid, Number: 1, m/z: 105 Type: quant, RT: 4.64

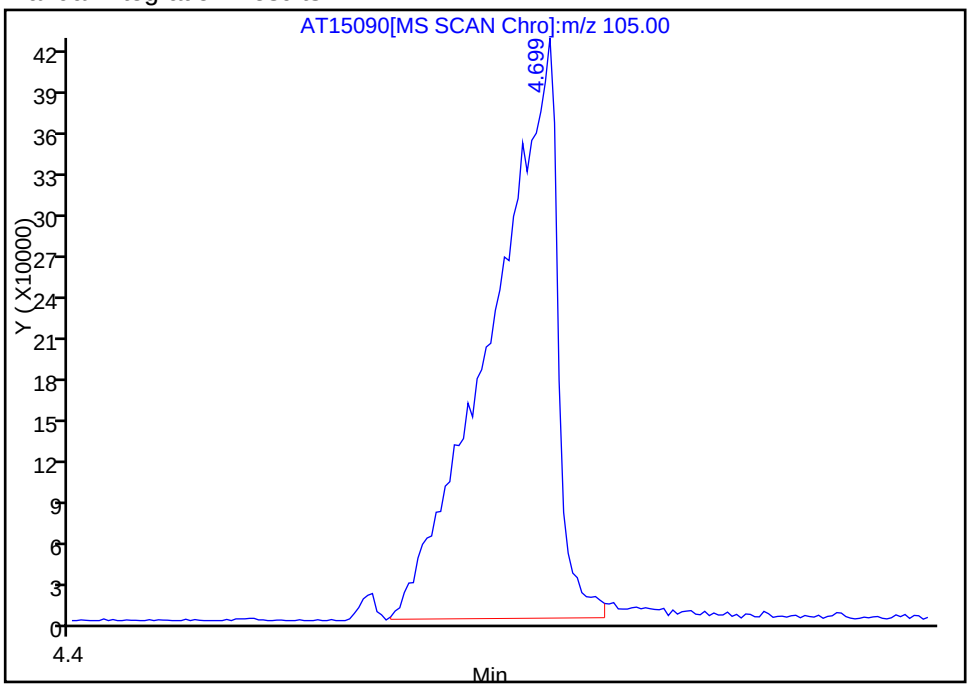
Processing Integration Results

RT: 4.59
Response: 13722
Amount: 450.4845



Manual Integration Results

RT: 4.70
Response: 1194558
Amount: 24898



Reviewer: phama, 11-May-2010 18:33:39
Audit Action: Manually Integrated
Audit Reason: Wrong peak

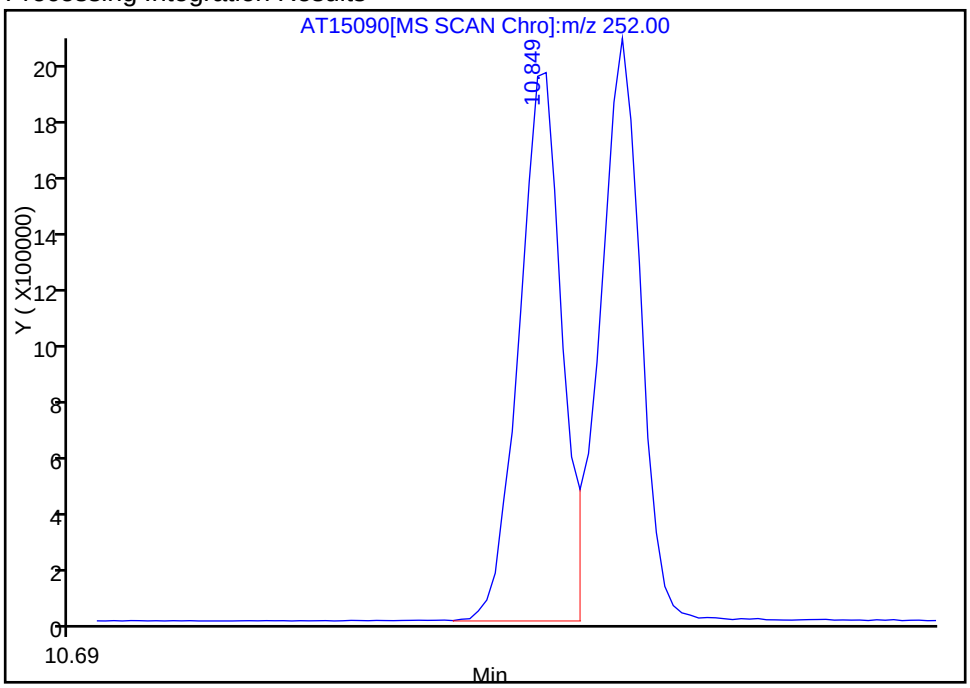
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15090.D		
Inj Date:	11-May-2010 17:59:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	12
Client ID:		Instrument:	TAC002
Sample Info:	ic std 5000 ppb		
Sample Amount:	1.00 ul	Operator:	ap

105 Benzofluoranthene, Number: 1, m/z: 252 Type: quant, RT: 10.87

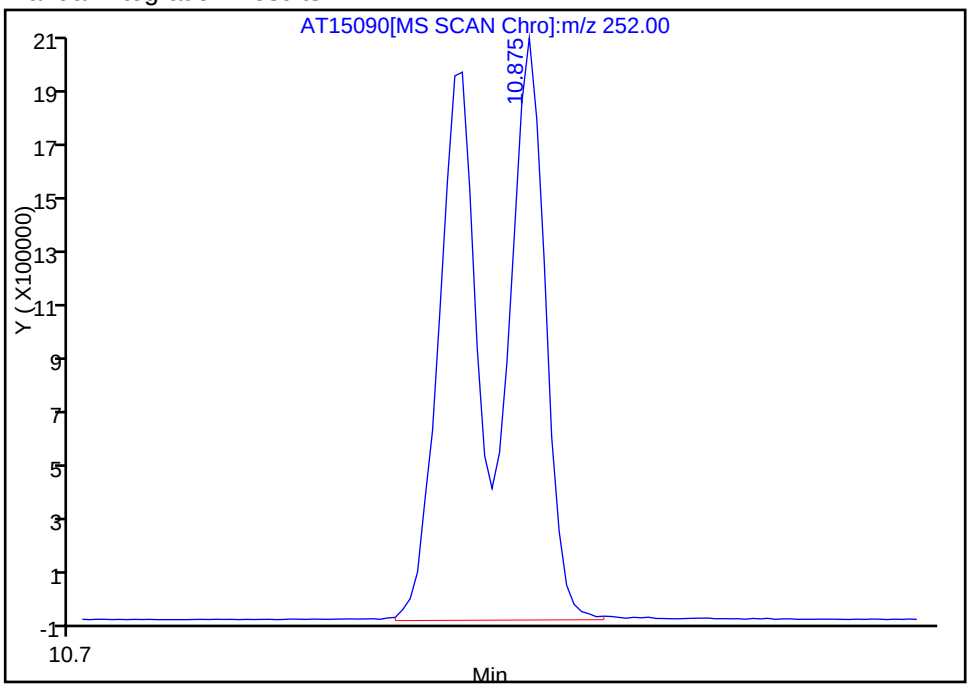
Processing Integration Results

RT: 10.85
Response: 1924414
Amount: 4537.2421



Manual Integration Results

RT: 10.87
Response: 3863209
Amount: 10824



Reviewer: phama, 11-May-2010 18:33:39
Audit Action: Manually Integrated
Audit Reason: Other

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Lab Sample ID: ICV 580-63269/13 Calibration Date: 05/11/2010 19:01

Instrument ID: TAC002 Calib Start Date: 01/20/2009 11:22

GC Column: DB-5MS ID: 0.25(mm) Calib End Date: 01/20/2009 13:39

Lab File ID: AT15091.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Atrazine	Ave	0.0023				1000		25.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15091.D		
Lims ID:	icv	Client ID:	
Inject. Date:	11-May-2010 19:01:30	Dil. Factor:	1.0000
Sample Type:	ICV, ICal Verification		
Sample ID:	icv		
Misc. Info.:	580-0008740-013		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	11
Lims Batch ID:	63269	Lims Sample ID:	13
Sublist:			
Detector:	MS SCAN		

Method:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\8270C TAC002.m		
Last Update:	19-May-2010 09:59:21	Calib Date:	11-May-2010 17:59:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15090.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		

Reviewed By:	phama	Date:	13-May-2010 16:20:55
Reviewed By:	phama	Date:	19-May-2010 10:00:21

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.892	3.893	-0.001	67609	994.5	
* 2 Naphthalene-d8	136	4.874	4.875	-0.001	278739	997.0	
* 3 Acenaphthene-d10	164	6.302	6.299	0.003	154974	968.0	
* 4 Phenanthrene-d10	188	7.525	7.520	0.005	272145	984.5	
* 5 Chrysene-d12	240	9.745	9.742	0.003	292766	974.0	
* 6 Perylene-d12	264	11.241	11.235	0.006	262601	983.0	
22 Pyridine	52	2.252	2.249	0.003	201306	5097.8	
23 N-Nitrosodimethylamine	42	2.246	2.249	-0.003	88287	5161.5	
24 Cyclohexanone	55	3.183	3.183	0.000	52617	1014.2	
25 Phenol	94	3.600	3.597	0.003	109138	1058.3	
26 Aniline	93	3.657	3.654	0.003	108100	993.9	
27 Bis(2-chloroethyl)ether	93	3.688	3.688	0.000	94978	947.0	
28 2-Chlorophenol	128	3.739	3.739	0.000	98801	1069.5	
29 n-Decane	57	3.756	3.753	0.003	77297	1018.8	
30 1,3-Dichlorobenzene	146	3.856	3.853	0.003	108402	1053.0	
31 1,4-Dichlorobenzene	146	3.907	3.904	0.003	115332	1053.8	
32 Benzyl alcohol	108	3.983	3.983	0.000	64680	1089.3	
33 1,2-Dichlorobenzene	146	4.023	4.020	0.003	107062	1025.6	
34 2-Methylphenol	108	4.051	4.051	0.000	91259	1069.9	
35 2,2'-oxybis[1-chloropropane]	45	4.085	4.080	0.005	79276	946.5	
36 3 & 4 Methylphenol	108	4.168	4.162	0.006	93204	1091.5	
38 N-Nitrosodi-n-propylamine	70	4.182	4.182	0.000	56505	1022.4	
37 Acetophenone	105	4.190	4.191	-0.001	118754	1019.6	
39 Hexachloroethane	117	4.278	4.279	-0.001	35059	914.7	
40 Nitrobenzene	77	4.321	4.321	0.000	93909	1155.8	
41 Isophorone	82	4.505	4.503	0.002	184865	1164.1	
42 2-Nitrophenol	139	4.571	4.568	0.003	63349	1114.6	
43 2,4-Dimethylphenol	107	4.582	4.582	0.000	79283	1081.1	
44 Benzoic acid	105	4.639	4.636	0.003	154874	5731.4	M

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
45 Bis(2-chloroethoxy)methane	93	4.664	4.665	-0.001	108635	1114.9	
46 2,4-Dichlorophenol	162	4.752	4.750	0.002	82273	1087.8	
47 1,2,4-Trichlorobenzene	180	4.826	4.823	0.003	91663	1006.6	
48 Naphthalene	128	4.894	4.892	0.002	313617	1065.1	
49 4-Chloroaniline	127	4.926	4.923	0.003	90994	958.4	
50 Hexachlorobutadiene	225	4.988	4.985	0.003	52152	1040.7	
51 4-Chloro-3-methylphenol	107	5.300	5.297	0.003	72121	1149.9	
52 2-Methylnaphthalene	142	5.448	5.445	0.003	215872	1182.7	
53 1-Methylnaphthalene	142	5.530	5.527	0.003	196710	1009.1	
54 Hexachlorocyclopentadiene	237	5.575	5.573	0.002	55149	982.2	
55 2,4,6-Trichlorophenol	196	5.669	5.666	0.003	53979	1073.8	
56 2,3-Dichlorobenzenamine	161	5.675	5.672	0.003	112027	1193.3	
57 2,4,5-Trichlorophenol	196	5.698	5.695	0.003	61238	1046.2	
58 1,1'-Biphenyl	154	5.825	5.823	0.002	241563	1063.6	
59 2-Chloronaphthalene	162	5.845	5.842	0.003	198996	1097.6	
60 2-Nitroaniline	65	5.922	5.919	0.003	35999	1198.1	
62 Dimethyl phthalate	163	6.067	6.064	0.002	203137	1125.6	
63 2,6-Dinitrotoluene	165	6.118	6.112	0.006	58404	1210.3	
64 Acenaphthylene	152	6.189	6.186	0.003	305573	1114.5	
65 3-Nitroaniline	138	6.254	6.251	0.003	31081	896.5	
66 Acenaphthene	153	6.328	6.325	0.003	197045	1062.8	
67 2,4-Dinitrophenol	184	6.339	6.336	0.003	97912	5533.9	
68 4-Nitrophenol	109	6.376	6.373	0.003	62482	4651.4	
69 2,4-Dinitrotoluene	165	6.447	6.444	0.003	73700	1278.2	
70 Dibenzofuran	168	6.470	6.467	0.003	289201	1152.7	
71 2,3,5,6-Tetrachlorophenol	232	6.529	6.526	0.003	50537	997.9	
72 2,3,4,6-Tetrachlorophenol	232	6.566	6.560	0.006	58447	1220.4	
73 Diethyl phthalate	149	6.646	6.643	0.003	180207	1010.3	
76 4-Chlorophenyl phenyl ether	204	6.748	6.745	0.003	106505	1146.3	
75 Fluorene	166	6.751	6.751	0.000	217026	1057.6	
77 4-Nitroaniline	138	6.753	6.756	-0.003	24381	1009.3	
78 4,6-Dinitro-2-methylphenol	198	6.779	6.776	0.003	171423	5706.4	
79 N-Nitrosodiphenylamine	169	6.841	6.839	0.002	184398	1113.6	
80 Azobenzene	77	6.878	6.873	0.005	179362	1151.3	
81 4-Bromophenyl phenyl ether	248	7.151	7.148	0.003	70576	1039.1	
82 Hexachlorobenzene	284	7.205	7.199	0.006	90732	1042.4	
83 Pentachlorophenol	266	7.361	7.358	0.003	42563	999.1	
84 n-Octadecane	43	7.418	7.415	0.003	39726	897.6	
86 Phenanthrene	178	7.545	7.543	0.003	293604	1000.6	
87 Anthracene	178	7.588	7.582	0.006	296961	1044.1	
89 Carbazole	167	7.713	7.707	0.006	242844	991.9	
90 Di-n-butyl phthalate	149	7.991	7.988	0.003	336817	989.0	
95 Fluoranthene	202	8.524	8.522	0.002	329598	1073.7	
94 Benzidine	184	8.629	8.624	0.005	66981	1798.5	
93 Pyrene	202	8.715	8.709	0.006	347577	989.8	
97 Butyl benzyl phthalate	149	9.228	9.223	0.005	140209	1023.4	
98 3,3'-Dichlorobenzidine	252	9.705	9.700	0.005	195232	2129.9	
99 Benzo[a]anthracene	228	9.734	9.731	0.003	336401	1037.1	
101 Bis(2-ethylhexyl) phthalate	149	9.736	9.731	0.005	211905	1019.4	
100 Chrysene	228	9.770	9.765	0.005	336284	980.6	
102 Di-n-octyl phthalate	149	10.418	10.412	0.006	337702	1182.8	
103 Benzo[b]fluoranthene	252	10.846	10.841	0.005	343468	1073.3	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
105 Benzofluoranthene	252	10.872	10.869	0.003	702925	2121.9	M
104 Benzo[k]fluoranthene	252	10.872	10.869	0.003	360847	1067.0	
106 Benzo[a]pyrene	252	11.181	11.175	0.006	338359	1064.5	
107 Indeno[1,2,3-cd]pyrene	276	12.512	12.518	-0.006	377561	1011.2	M
108 Dibenz(a,h)anthracene	278	12.535	12.529	0.006	313015	1015.9	
109 Benzo[g,h,i]perylene	276	12.887	12.878	0.009	326182	1032.4	M

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 19-May-2010 10:00:21 Chrom Revision: 1.1 20-Apr-2010 06:13:18

Data File: \\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15091.D

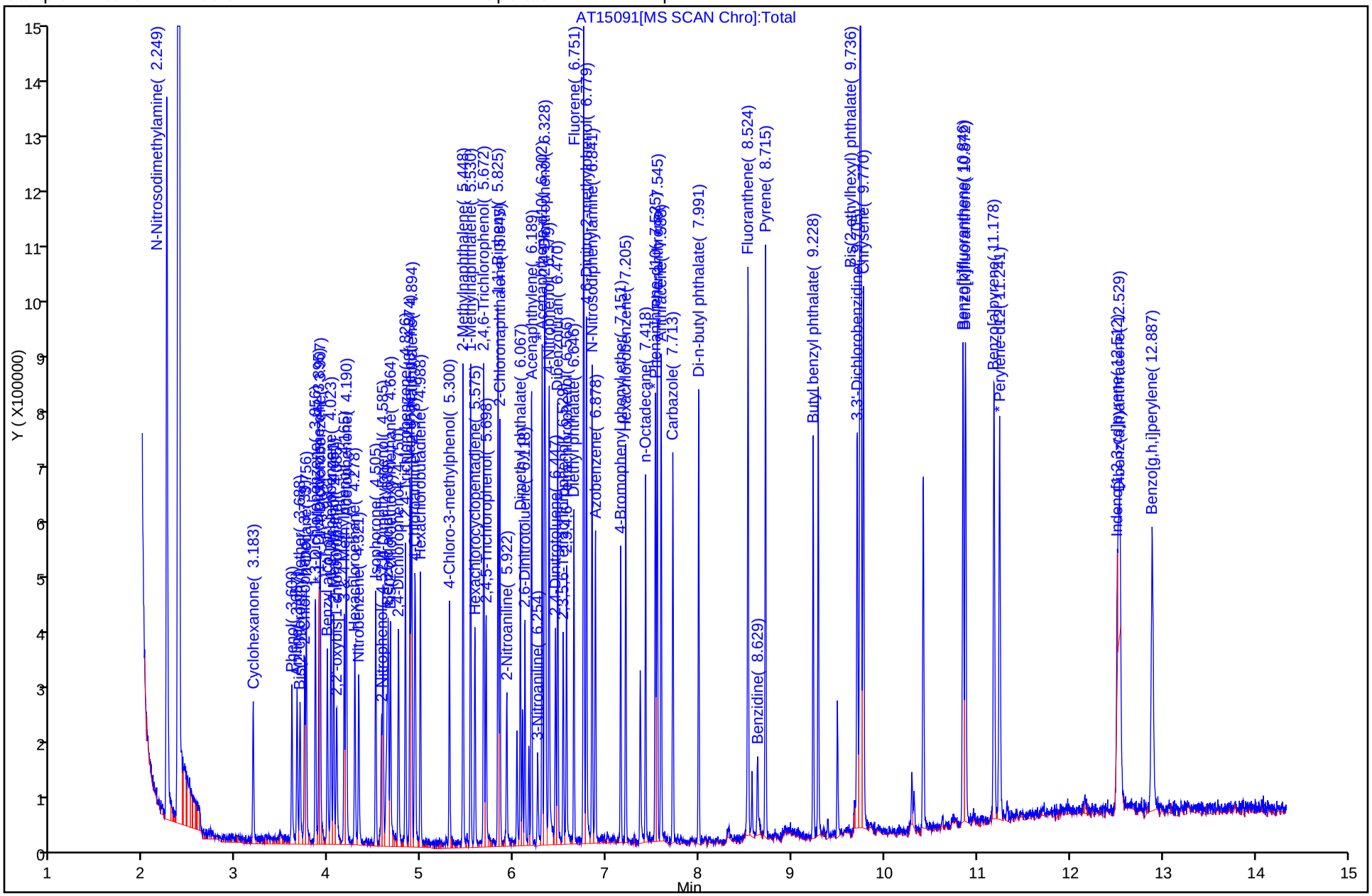
Inj Date: 11-May-2010 19:01:30 Limit Group: 8270C Standard

Lims Batch ID: 63269 Lims Sample ID: 13

Client ID: Instrument: TAC002

Sample Info: icv

Sample Amount: 1.00 ul Operator: ap



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Lab Sample ID: ICV 580-63269/13 Calibration Date: 05/11/2010 19:01

Instrument ID: TAC002 Calib Start Date: 05/11/2010 15:36

GC Column: DB-5MS ID: 0.25(mm) Calib End Date: 05/11/2010 17:59

Lab File ID: AT15091.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
N-Nitrosodimethylamine	Lin1		0.2584		5160	5030	2.7	25.0
Pyridine	Lin1		0.5903		5100	5020	1.6	25.0
Cyclohexanone	Ave	0.7631	0.7701		1010	1000	0.9	25.0
Phenol	Ave	1.517	1.606		1060	1000	5.8	25.0
Aniline	Ave	1.600	1.584		994	1000	-1.0	25.0
Bis(2-chloroethyl)ether	Lin1		1.399		947	998	-5.2	25.0
2-Chlorophenol	Ave	1.359	1.455		1070	999	7.1	25.0
n-Decane	Ave	1.116	1.136		1020	1000	1.8	25.0
1,3-Dichlorobenzene	Ave	1.514	1.622		1050	983	7.1	25.0
1,4-Dichlorobenzene	Ave	1.610	1.703		1050	996	5.8	25.0
Benzyl alcohol	Lin1		0.9723		1090	978	11.3	25.0
1,2-Dichlorobenzene	Ave	1.536	1.581		1030	996	3.0	25.0
2-Methylphenol	Ave	1.255	1.291		1070	1040	2.9	25.0
bis(chloroisopropyl) ether	Ave	1.232	1.167		947	999	-5.3	25.0
3 & 4 Methylphenol	Ave	1.256	1.344		1090	1020	7.0	25.0
N-Nitrosodi-n-propylamine	Ave	0.8129	0.8322	0.0500	1020	999	2.4	25.0
Acetophenone	Ave	1.713	1.751		1020	997	2.2	25.0
Hexachloroethane	Ave	0.5638	0.5111		915	1010	-9.3	25.0
Nitrobenzene	Ave	0.2906	0.3369		1160	997	15.9	25.0
Isophorone	Ave	0.5680	0.6668		1160	992	17.4	25.0
2-Nitrophenol	Lin1		0.2267		1110	1000	11.5	20.0
2,4-Dimethylphenol	Ave	0.2623	0.2838		1080	999	8.2	25.0
Benzoic acid	Qua1		0.1110		5730	4990	14.8	25.0
Bis(2-chloroethoxy)methane	Ave	0.3485	0.3878		1110	1000	11.3	25.0
2,4-Dichlorophenol	Ave	0.2705	0.2962		1090	993	9.5	25.0
1,2,4-Trichlorobenzene	Ave	0.3257	0.3262		1010	1000	0.2	25.0
Naphthalene	Ave	1.053	1.117		1070	1000	6.1	25.0
4-Chloroaniline	Qua2		0.3255		958	1000	-4.1	25.0
Hexachlorobutadiene	Lin1		0.1868		1040	999	4.2	20.0
4-Chloro-3-methylphenol	Ave	0.2243	0.2604		1150	990	16.1	25.0
2-Methylnaphthalene	Ave	0.6528	0.7698		1180	1000	17.9	25.0
1-Methylnaphthalene	Ave	0.6973	0.7022		1010	1000	0.7	25.0
Hexachlorocyclopentadiene	Lin1		0.3441	0.0500	982	1000	-1.9	25.0
2,4,6-Trichlorophenol	Ave	0.3140	0.3396		1070	993	8.2	25.0
2,3-Dichloroaniline	Ave	0.5864	0.6963		1190	1000	18.7	25.0
2,4,5-Trichlorophenol	Ave	0.3656	0.3900		1050	981	6.7	25.0
Biphenyl	Ave	1.419	1.500		1060	1010	5.7	25.0
2-Chloronaphthalene	Ave	1.132	1.245		1100	999	9.9	25.0
2-Nitroaniline	Lin1		0.2246		1200	1000	19.7	25.0
Dimethyl phthalate	Ave	1.127	1.268		1130	1000	12.4	25.0
2,6-Dinitrotoluene	Lin1		0.3616		1210	1010	20.0	25.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Lab Sample ID: ICV 580-63269/13 Calibration Date: 05/11/2010 19:01

Instrument ID: TAC002 Calib Start Date: 05/11/2010 15:36

GC Column: DB-5MS ID: 0.25(mm) Calib End Date: 05/11/2010 17:59

Lab File ID: AT15091.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acenaphthylene	Ave	1.713	1.903		1110	1000	11.1	25.0
3-Nitroaniline	Qua1		0.1939		897	1000	-10.4	25.0
Acenaphthene	Ave	1.158	1.227		1060	1000	6.0	25.0
2,4-Dinitrophenol	Qua2		0.1225	0.0500	5530	4990	10.8	25.0
4-Nitrophenol	Lin1		0.0784	0.0500	4650	4980	-6.6	25.0
2,4-Dinitrotoluene	Lin1		0.4599		1280	1000	27.7*	25.0
Dibenzofuran	Ave	1.567	1.850		1150	976	18.0	25.0
2,3,5,6-Tetrachlorophenol	Lin1		0.3210		998	983	1.5	25.0
2,3,4,6-Tetrachlorophenol	Ave	0.2991	0.3569		1220	1020	19.3	25.0
Diethyl phthalate	Ave	1.114	1.126		1010	999	1.1	25.0
4-Chlorophenyl phenyl ether	Ave	0.5804	0.6639		1150	1000	14.4	25.0
Fluorene	Ave	1.282	1.356		1060	1000	5.8	25.0
4-Nitroaniline	Qua		0.1523		1010	1000	0.9	25.0
4,6-Dinitro-2-methylphenol	Qua1		0.1237		5710	5010	13.8	25.0
N-Nitrosodiphenylamine	Ave	0.5990	0.6664		1110	1000	11.2	25.0
Azobenzene	Ave	0.5636	0.6632		1150	978	17.7	25.0
4-Bromophenyl phenyl ether	Qua		0.2558		1040	998	4.1	25.0
Hexachlorobenzene	Lin1		0.3287		1040	999	4.4	25.0
Pentachlorophenol	Lin1		0.1541		999	999	0.0	20.0
Octadecane	Ave	0.1601	0.1430		898	1000	-10.7	25.0
Phenanthrene	Ave	1.061	1.059		1000	1000	-0.2	25.0
Anthracene	Ave	1.029	1.070		1040	1000	4.0	25.0
Carbazole	Ave	0.8856	0.8792		992	999	-0.7	25.0
Di-n-butyl phthalate	Ave	1.232	1.216		989	1000	-1.3	25.0
Fluoranthene	Ave	1.110	1.191		1070	1000	7.3	25.0
Benzidine	Qua		0.1214		1800	2000	-9.9	25.0
Pyrene	Ave	1.270	1.255		990	1000	-1.2	25.0
Butyl benzyl phthalate	Ave	0.4558	0.4655		1020	1000	2.1	25.0
3,3'-Dichlorobenzidine	Ave	0.3049	0.3236		2130	2010	6.1	25.0
Benzo[a]anthracene	Ave	1.079	1.116		1040	1000	3.4	25.0
Bis(2-ethylhexyl) phthalate	Ave	0.6916	0.7029		1020	1000	1.6	25.0
Chrysene	Ave	1.141	1.119		981	1000	-1.9	25.0
Di-n-octyl phthalate	Ave	1.069	1.258		1180	1000	17.7	25.0
Benzo[b]fluoranthene	Ave	1.198	1.284		1070	1000	7.2	25.0
Benzo[k]fluoranthene	Ave	1.266	1.351		1070	1000	6.7	25.0
Benzofluoranthene	Ave	1.240	1.315		2120	2000	6.0	25.0
Benzo[a]pyrene	Ave	1.190	1.262		1060	1000	6.0	25.0
Indeno[1,2,3-cd]pyrene	Ave	1.398	1.409		1010	1000	0.8	25.0
Dibenz(a,h)anthracene	Ave	1.153	1.172		1020	1000	1.6	25.0
Benzo[g,h,i]perylene	Ave	1.183	1.217		1030	1000	2.9	25.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15091.D		
Lims ID:	icv	Client ID:	
Inject. Date:	11-May-2010 19:01:30	Dil. Factor:	1.0000
Sample Type:	ICV, ICal Verification		
Sample ID:	icv		
Misc. Info.:	580-0008740-013		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	11
Lims Batch ID:	63269	Lims Sample ID:	13
Sublist:			
Detector:	MS SCAN		

Method:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\8270C TAC002.m		
Last Update:	19-May-2010 09:59:21	Calib Date:	11-May-2010 17:59:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15090.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		

Reviewed By:	phama	Date:	13-May-2010 16:20:55
Reviewed By:	phama	Date:	19-May-2010 10:00:21

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.892	3.893	-0.001	67609	994.5	
* 2 Naphthalene-d8	136	4.874	4.875	-0.001	278739	997.0	
* 3 Acenaphthene-d10	164	6.302	6.299	0.003	154974	968.0	
* 4 Phenanthrene-d10	188	7.525	7.520	0.005	272145	984.5	
* 5 Chrysene-d12	240	9.745	9.742	0.003	292766	974.0	
* 6 Perylene-d12	264	11.241	11.235	0.006	262601	983.0	
22 Pyridine	52	2.252	2.249	0.003	201306	5097.8	
23 N-Nitrosodimethylamine	42	2.246	2.249	-0.003	88287	5161.5	
24 Cyclohexanone	55	3.183	3.183	0.000	52617	1014.2	
25 Phenol	94	3.600	3.597	0.003	109138	1058.3	
26 Aniline	93	3.657	3.654	0.003	108100	993.9	
27 Bis(2-chloroethyl)ether	93	3.688	3.688	0.000	94978	947.0	
28 2-Chlorophenol	128	3.739	3.739	0.000	98801	1069.5	
29 n-Decane	57	3.756	3.753	0.003	77297	1018.8	
30 1,3-Dichlorobenzene	146	3.856	3.853	0.003	108402	1053.0	
31 1,4-Dichlorobenzene	146	3.907	3.904	0.003	115332	1053.8	
32 Benzyl alcohol	108	3.983	3.983	0.000	64680	1089.3	
33 1,2-Dichlorobenzene	146	4.023	4.020	0.003	107062	1025.6	
34 2-Methylphenol	108	4.051	4.051	0.000	91259	1069.9	
35 2,2'-oxybis[1-chloropropane]	45	4.085	4.080	0.005	79276	946.5	
36 3 & 4 Methylphenol	108	4.168	4.162	0.006	93204	1091.5	
38 N-Nitrosodi-n-propylamine	70	4.182	4.182	0.000	56505	1022.4	
37 Acetophenone	105	4.190	4.191	-0.001	118754	1019.6	
39 Hexachloroethane	117	4.278	4.279	-0.001	35059	914.7	
40 Nitrobenzene	77	4.321	4.321	0.000	93909	1155.8	
41 Isophorone	82	4.505	4.503	0.002	184865	1164.1	
42 2-Nitrophenol	139	4.571	4.568	0.003	63349	1114.6	
43 2,4-Dimethylphenol	107	4.582	4.582	0.000	79283	1081.1	
44 Benzoic acid	105	4.639	4.636	0.003	154874	5731.4	M

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
45 Bis(2-chloroethoxy)methane	93	4.664	4.665	-0.001	108635	1114.9	
46 2,4-Dichlorophenol	162	4.752	4.750	0.002	82273	1087.8	
47 1,2,4-Trichlorobenzene	180	4.826	4.823	0.003	91663	1006.6	
48 Naphthalene	128	4.894	4.892	0.002	313617	1065.1	
49 4-Chloroaniline	127	4.926	4.923	0.003	90994	958.4	
50 Hexachlorobutadiene	225	4.988	4.985	0.003	52152	1040.7	
51 4-Chloro-3-methylphenol	107	5.300	5.297	0.003	72121	1149.9	
52 2-Methylnaphthalene	142	5.448	5.445	0.003	215872	1182.7	
53 1-Methylnaphthalene	142	5.530	5.527	0.003	196710	1009.1	
54 Hexachlorocyclopentadiene	237	5.575	5.573	0.002	55149	982.2	
55 2,4,6-Trichlorophenol	196	5.669	5.666	0.003	53979	1073.8	
56 2,3-Dichlorobenzenamine	161	5.675	5.672	0.003	112027	1193.3	
57 2,4,5-Trichlorophenol	196	5.698	5.695	0.003	61238	1046.2	
58 1,1'-Biphenyl	154	5.825	5.823	0.002	241563	1063.6	
59 2-Chloronaphthalene	162	5.845	5.842	0.003	198996	1097.6	
60 2-Nitroaniline	65	5.922	5.919	0.003	35999	1198.1	
62 Dimethyl phthalate	163	6.067	6.064	0.002	203137	1125.6	
63 2,6-Dinitrotoluene	165	6.118	6.112	0.006	58404	1210.3	
64 Acenaphthylene	152	6.189	6.186	0.003	305573	1114.5	
65 3-Nitroaniline	138	6.254	6.251	0.003	31081	896.5	
66 Acenaphthene	153	6.328	6.325	0.003	197045	1062.8	
67 2,4-Dinitrophenol	184	6.339	6.336	0.003	97912	5533.9	
68 4-Nitrophenol	109	6.376	6.373	0.003	62482	4651.4	
69 2,4-Dinitrotoluene	165	6.447	6.444	0.003	73700	1278.2	
70 Dibenzofuran	168	6.470	6.467	0.003	289201	1152.7	
71 2,3,5,6-Tetrachlorophenol	232	6.529	6.526	0.003	50537	997.9	
72 2,3,4,6-Tetrachlorophenol	232	6.566	6.560	0.006	58447	1220.4	
73 Diethyl phthalate	149	6.646	6.643	0.003	180207	1010.3	
76 4-Chlorophenyl phenyl ether	204	6.748	6.745	0.003	106505	1146.3	
75 Fluorene	166	6.751	6.751	0.000	217026	1057.6	
77 4-Nitroaniline	138	6.753	6.756	-0.003	24381	1009.3	
78 4,6-Dinitro-2-methylphenol	198	6.779	6.776	0.003	171423	5706.4	
79 N-Nitrosodiphenylamine	169	6.841	6.839	0.002	184398	1113.6	
80 Azobenzene	77	6.878	6.873	0.005	179362	1151.3	
81 4-Bromophenyl phenyl ether	248	7.151	7.148	0.003	70576	1039.1	
82 Hexachlorobenzene	284	7.205	7.199	0.006	90732	1042.4	
83 Pentachlorophenol	266	7.361	7.358	0.003	42563	999.1	
84 n-Octadecane	43	7.418	7.415	0.003	39726	897.6	
86 Phenanthrene	178	7.545	7.543	0.003	293604	1000.6	
87 Anthracene	178	7.588	7.582	0.006	296961	1044.1	
89 Carbazole	167	7.713	7.707	0.006	242844	991.9	
90 Di-n-butyl phthalate	149	7.991	7.988	0.003	336817	989.0	
95 Fluoranthene	202	8.524	8.522	0.002	329598	1073.7	
94 Benzidine	184	8.629	8.624	0.005	66981	1798.5	
93 Pyrene	202	8.715	8.709	0.006	347577	989.8	
97 Butyl benzyl phthalate	149	9.228	9.223	0.005	140209	1023.4	
98 3,3'-Dichlorobenzidine	252	9.705	9.700	0.005	195232	2129.9	
99 Benzo[a]anthracene	228	9.734	9.731	0.003	336401	1037.1	
101 Bis(2-ethylhexyl) phthalate	149	9.736	9.731	0.005	211905	1019.4	
100 Chrysene	228	9.770	9.765	0.005	336284	980.6	
102 Di-n-octyl phthalate	149	10.418	10.412	0.006	337702	1182.8	
103 Benzo[b]fluoranthene	252	10.846	10.841	0.005	343468	1073.3	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
105 Benzofluoranthene	252	10.872	10.869	0.003	702925	2121.9	M
104 Benzo[k]fluoranthene	252	10.872	10.869	0.003	360847	1067.0	
106 Benzo[a]pyrene	252	11.181	11.175	0.006	338359	1064.5	
107 Indeno[1,2,3-cd]pyrene	276	12.512	12.518	-0.006	377561	1011.2	M
108 Dibenz(a,h)anthracene	278	12.535	12.529	0.006	313015	1015.9	
109 Benzo[g,h,i]perylene	276	12.887	12.878	0.009	326182	1032.4	M

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 19-May-2010 10:00:21 Chrom Revision: 1.1 20-Apr-2010 06:13:18

Data File: \\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15091.D

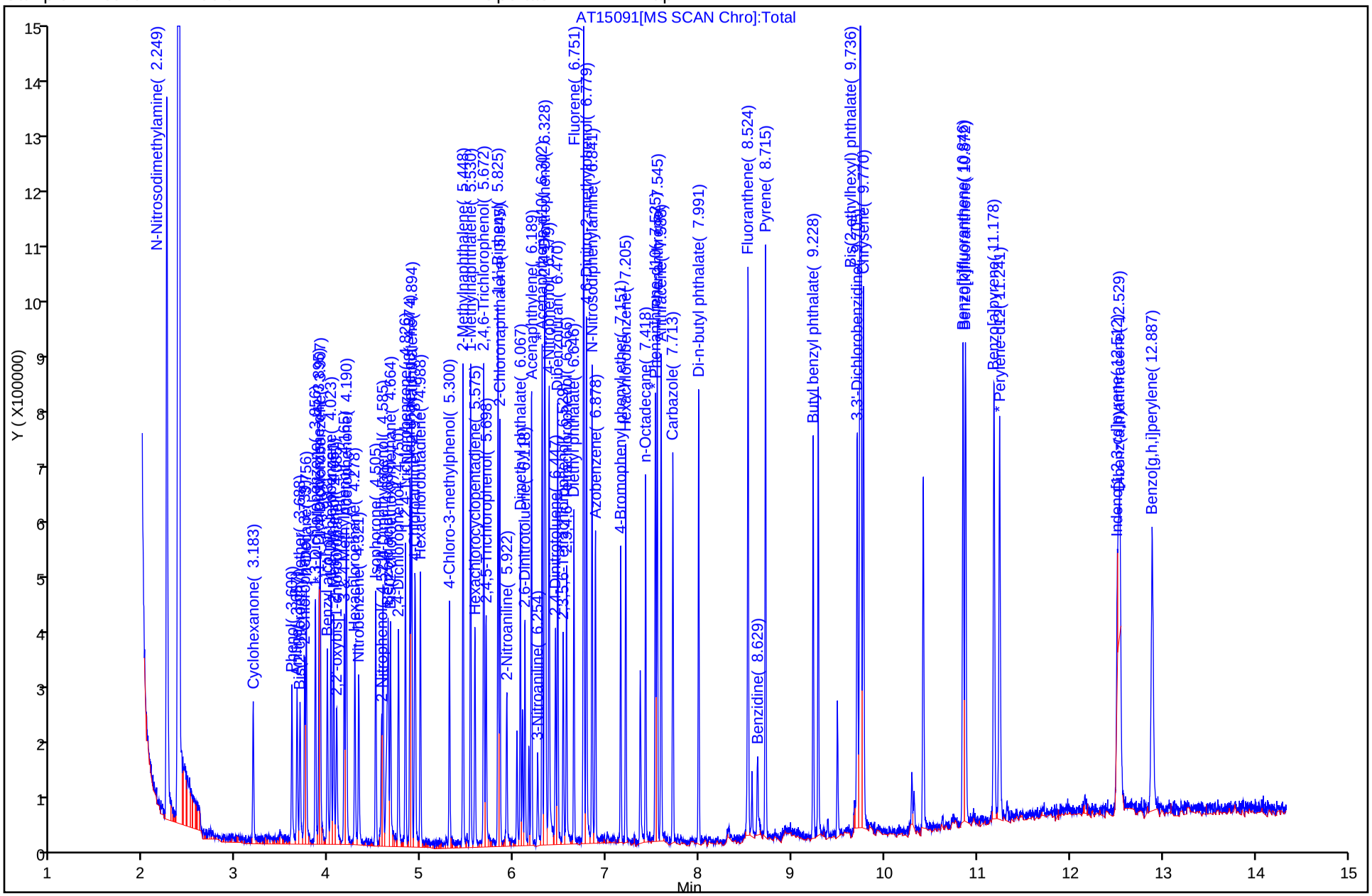
Inj Date: 11-May-2010 19:01:30 Limit Group: 8270C Standard

Lims Batch ID: 63269 Lims Sample ID: 13

Client ID: Instrument: TAC002

Sample Info: icv

Sample Amount: 1.00 ul Operator: ap



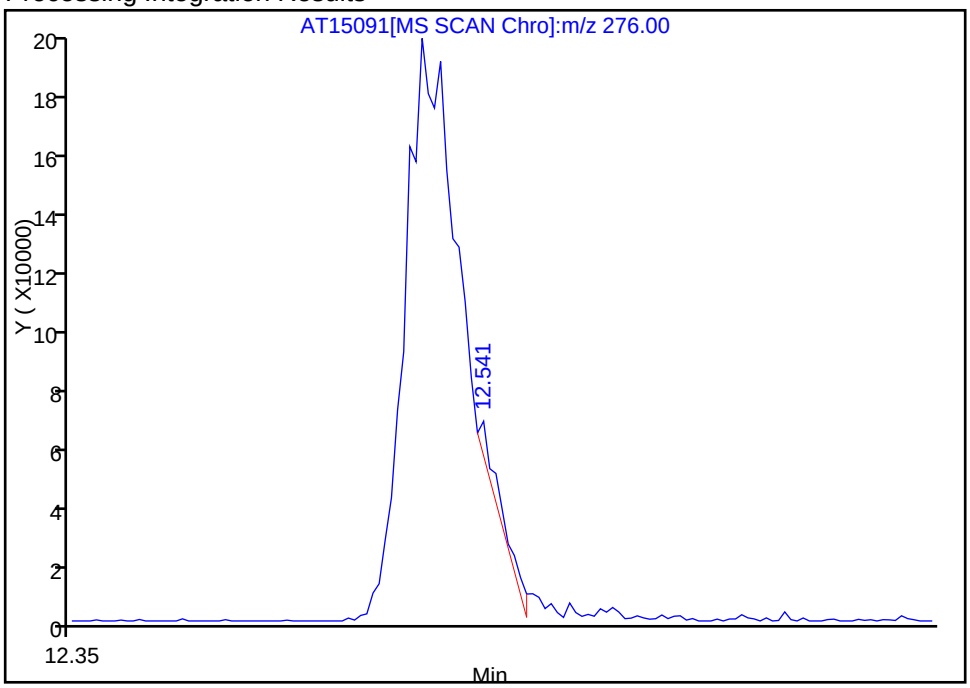
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15091.D		
Inj Date:	11-May-2010 19:01:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	13
Client ID:		Instrument:	TAC002
Sample Info:	icv		
Sample Amount:	1.00 ul	Operator:	ap

107 Indeno[1,2,3-cd]pyrene, Number: 1, m/z: 276 Type: quant, RT: 12.52

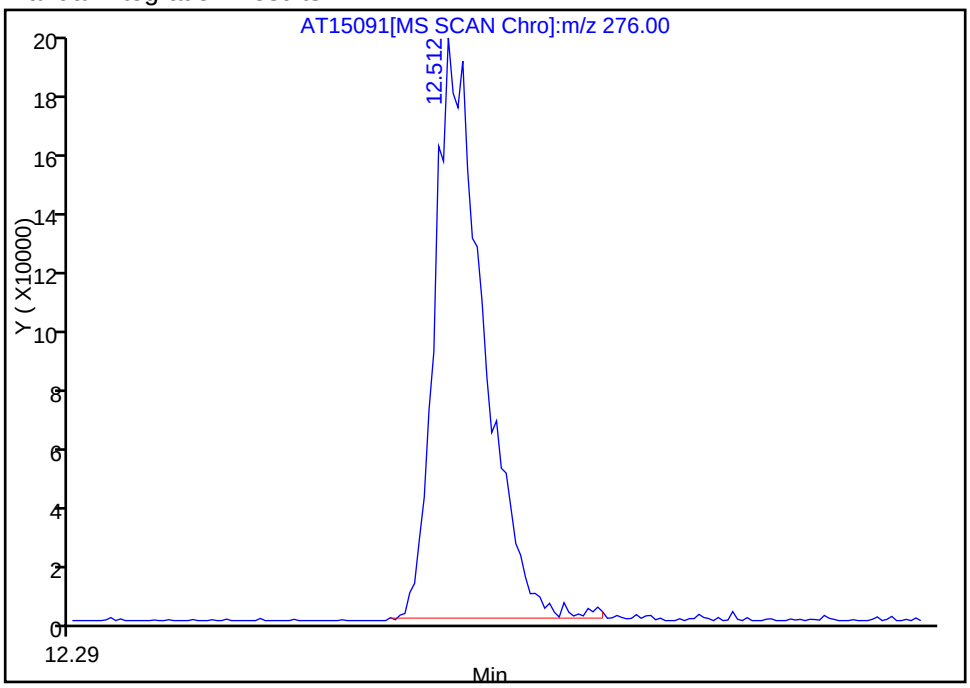
Processing Integration Results

RT: 12.54
Response: 7778
Amount: 20.831592



Manual Integration Results

RT: 12.51
Response: 377561
Amount: 1011.2107



Reviewer: phama, 13-May-2010 16:20:55
Audit Action: Manually Integrated
Audit Reason: Other

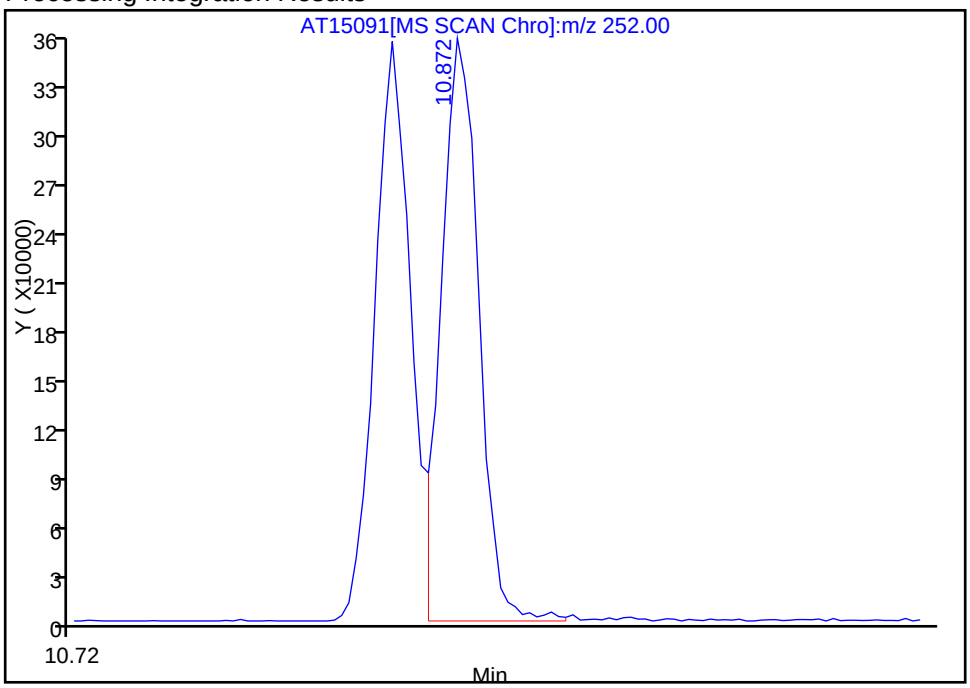
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15091.D		
Inj Date:	11-May-2010 19:01:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	13
Client ID:		Instrument:	TAC002
Sample Info:	icv		
Sample Amount:	1.00 ul	Operator:	ap

105 Benzofluoranthene, Number: 1, m/z: 252 Type: quant, RT: 10.87

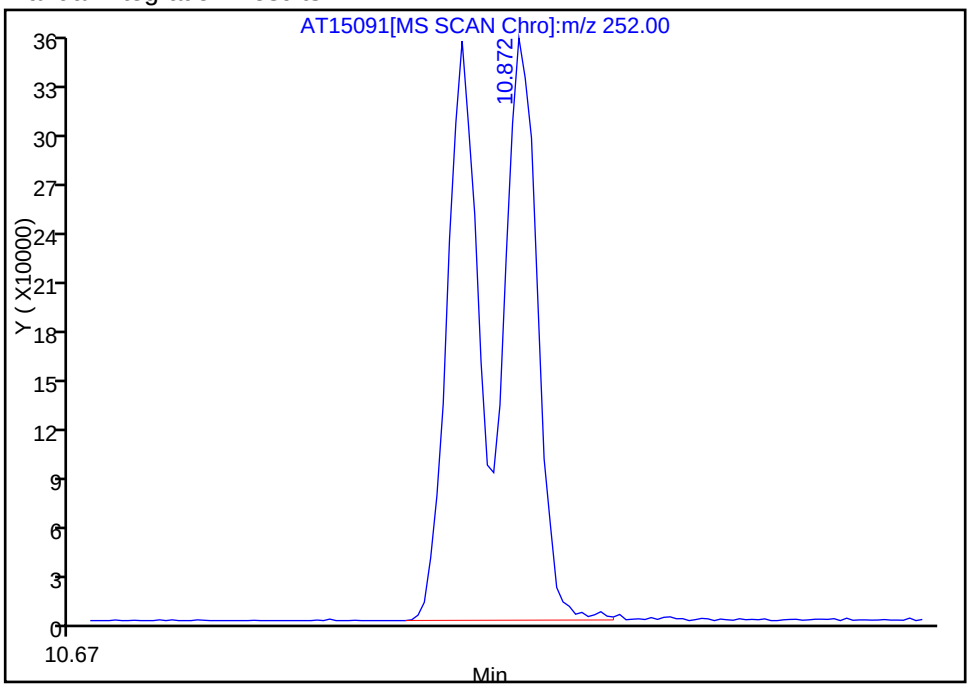
Processing Integration Results

RT: 10.87
Response: 360847
Amount: 1089.2693



Manual Integration Results

RT: 10.87
Response: 702925
Amount: 2121.8817



Reviewer: phama, 13-May-2010 16:20:55
Audit Action: Manually Integrated
Audit Reason: Other

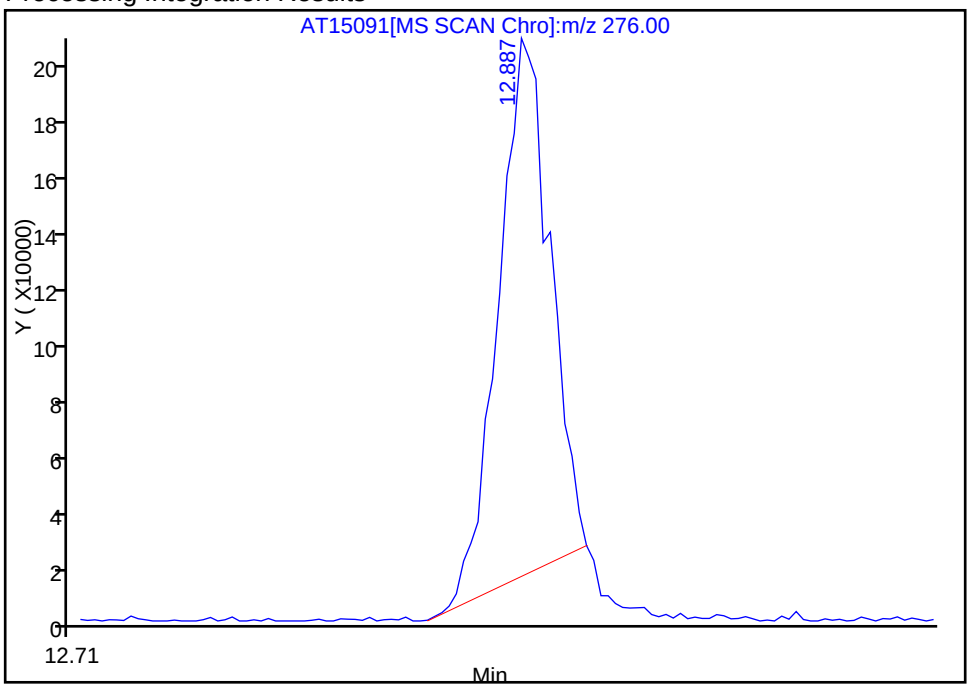
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15091.D		
Inj Date:	11-May-2010 19:01:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	13
Client ID:		Instrument:	TAC002
Sample Info:	icv		
Sample Amount:	1.00 ul	Operator:	ap

109 Benzo[g,h,i]perylene, Number: 1, m/z: 276 Type: quant, RT: 12.88

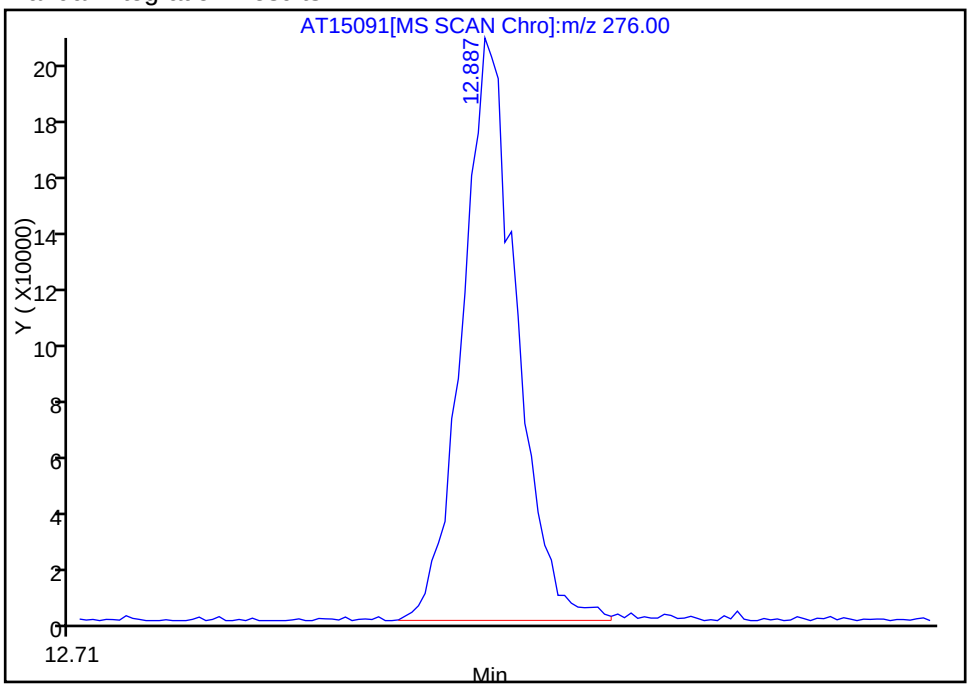
Processing Integration Results

RT: 12.89
Response: 263756
Amount: 834.8140



Manual Integration Results

RT: 12.89
Response: 326182
Amount: 1032.3985



Reviewer: phama, 13-May-2010 16:20:55
Audit Action: Manually Integrated
Audit Reason: Baseline

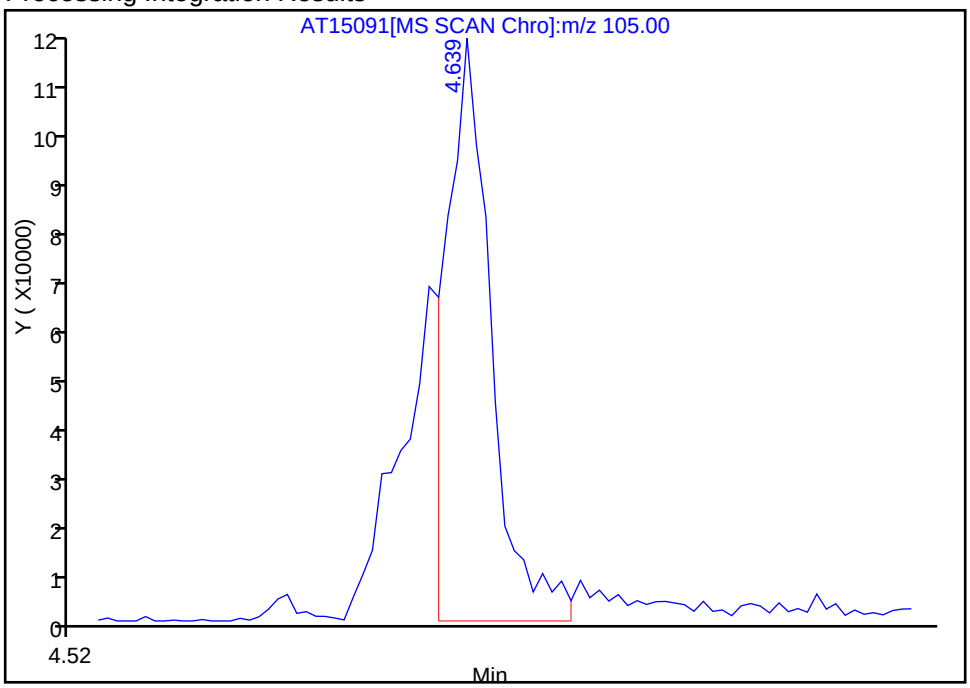
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15091.D		
Inj Date:	11-May-2010 19:01:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	13
Client ID:		Instrument:	TAC002
Sample Info:	icv		
Sample Amount:	1.00 ul	Operator:	ap

44 Benzoic acid, Number: 1, m/z: 105 Type: quant, RT: 4.64

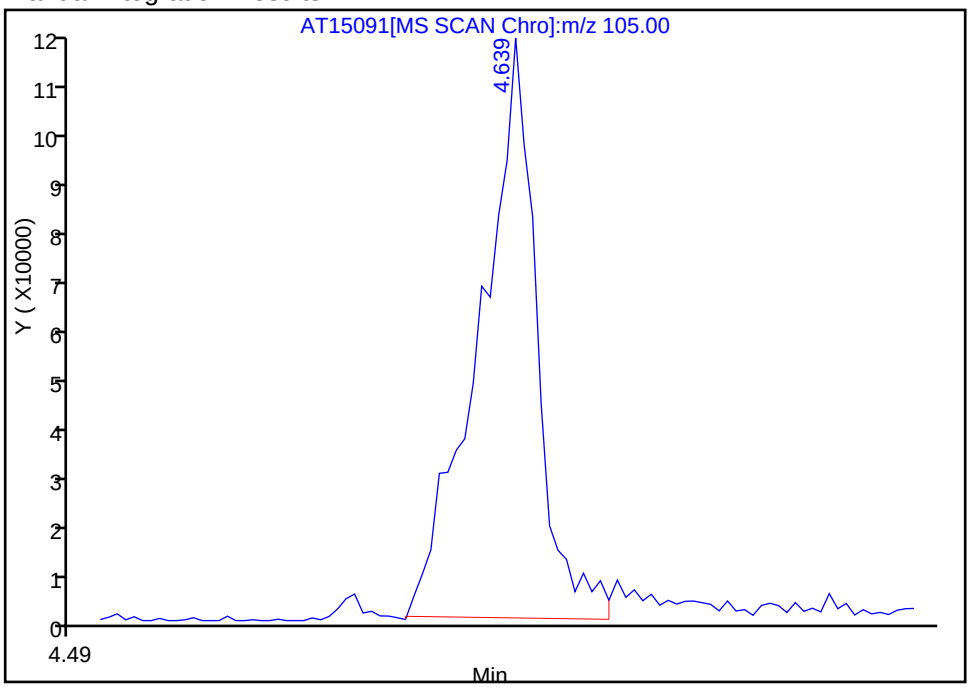
Processing Integration Results

RT: 4.64
Response: 105255
Amount: 4224.4915



Manual Integration Results

RT: 4.64
Response: 154874
Amount: 5731.4120



Reviewer: phama, 13-May-2010 16:20:55
Audit Action: Manually Integrated
Audit Reason: Other

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Lab Sample ID: CCVIS 580-64507/3 Calibration Date: 05/27/2010 12:12

Instrument ID: TAC002 Calib Start Date: 04/02/2010 09:55

GC Column: DB-5MS ID: 0.25(mm) Calib End Date: 04/02/2010 12:33

Lab File ID: AT15206.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Di-n-hexyl phthalate	Ave	0.8672				1000		

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15206.D		
Lims ID:	ccvis	Client ID:	
Inject. Date:	27-May-2010 12:12:30	Dil. Factor:	1.0000
Sample Type:	CCVIS, Cal Verification ISTD Check		
Sample ID:	ccvis		
Misc. Info.:	580-0009155-003		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	3
Lims Batch ID:	64507	Lims Sample ID:	3
Sublist:	chrom-8270C TAC002*sub10		
Detector:	MS SCAN		
Method:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\8270C TAC002.m		
Last Update:	27-May-2010 14:44:56	Calib Date:	11-May-2010 17:59:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15090.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		
Reviewed By:	phama	Date:	27-May-2010 12:34:05
Reviewed By:	phama	Date:	27-May-2010 14:44:56

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.881	3.881	0.000	86429	994.5	
* 2 Naphthalene-d8	136	4.863	4.863	0.000	350432	997.0	
* 3 Acenaphthene-d10	164	6.288	6.288	0.000	196241	968.0	
* 4 Phenanthrene-d10	188	7.508	7.508	0.000	347373	984.5	
* 5 Chrysene-d12	240	9.731	9.731	0.000	377809	974.0	
* 6 Perylene-d12	264	11.221	11.221	0.000	326008	983.0	
$ 7 2-Fluorophenol	112	2.973	2.973	0.000	110427	1007.3	
$ 8 Phenol-d5	99	3.597	3.597	0.000	126972	893.5	
$ 9 Nitrobenzene-d5	82	4.296	4.296	0.000	104601	970.1	
$ 10 2-Fluorobiphenyl	172	5.729	5.729	0.000	287250	1026.9	
$ 11 2,4,6-Tribromophenol	329	6.935	6.935	0.000	51395	857.3	
$ 12 Terphenyl-d14	244	8.817	8.817	0.000	391547	1025.4	
22 Pyridine	52	2.232	2.232	0.000	205563	4096.2	
23 N-Nitrosodimethylamine	42	2.238	2.238	0.000	90557	4142.2	
24 Cyclohexanone	55	3.172	3.172	0.000	54575	822.9	
25 Phenol	94	3.606	3.606	0.000	127338	965.9	
27 Bis(2-chloroethyl)ether	93	3.677	3.677	0.000	126864	988.9	
26 Aniline	93	3.646	3.646	0.000	111663	803.1	M
28 2-Chlorophenol	128	3.734	3.734	0.000	113702	962.8	
29 n-Decane	57	3.742	3.742	0.000	78097	805.2	
30 1,3-Dichlorobenzene	146	3.841	3.841	0.000	138871	1055.3	
31 1,4-Dichlorobenzene	146	3.895	3.895	0.000	140591	1004.9	
32 Benzyl alcohol	108	3.975	3.975	0.000	67774	894.4	
34 2-Methylphenol	108	4.051	4.051	0.000	103205	946.5	
33 1,2-Dichlorobenzene	146	4.009	4.009	0.000	134384	1007.0	
35 2,2'-oxybis[1-chloropropane]	45	4.071	4.071	0.000	83712	781.9	
36 3 & 4 Methylphenol	108	4.168	4.168	0.000	103704	950.0	
37 Acetophenone	105	4.179	4.179	0.000	138732	931.7	
38 N-Nitrosodi-n-propylamine	70	4.171	4.171	0.000	59645	844.3	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
39 Hexachloroethane	117	4.264	4.264	0.000	45794	934.7	
40 Nitrobenzene	77	4.310	4.310	0.000	94627	926.3	
41 Isophorone	82	4.494	4.494	0.000	188200	942.7	
42 2-Nitrophenol	139	4.557	4.557	0.000	71836	1006.6	
43 2,4-Dimethylphenol	107	4.579	4.579	0.000	90321	979.7	
44 Benzoic acid	105	4.645	4.645	0.000	214337	6276.5	
45 Bis(2-chloroethoxy)methane	93	4.653	4.653	0.000	126491	1032.6	
46 2,4-Dichlorophenol	162	4.750	4.750	0.000	93752	986.0	
47 1,2,4-Trichlorobenzene	180	4.812	4.812	0.000	124113	1084.1	
49 4-Chloroaniline	127	4.920	4.920	0.000	68230	550.4	
48 Naphthalene	128	4.880	4.880	0.000	368932	996.7	
50 Hexachlorobutadiene	225	4.974	4.974	0.000	65010	1032.0	
51 4-Chloro-3-methylphenol	107	5.309	5.309	0.000	76302	967.7	
52 2-Methylnaphthalene	142	5.437	5.437	0.000	233719	1018.5	
53 1-Methylnaphthalene	142	5.516	5.516	0.000	245661	1002.4	
54 Hexachlorocyclopentadiene	237	5.561	5.561	0.000	65634	924.1	
56 2,3-Dichlorobenzenamine	161	5.661	5.661	0.000	120699	1015.3	
55 2,4,6-Trichlorophenol	196	5.664	5.664	0.000	67808	1065.3	
57 2,4,5-Trichlorophenol	196	5.703	5.703	0.000	75789	1022.5	
58 1,1'-Biphenyl	154	5.811	5.811	0.000	291925	1015.1	
59 2-Chloronaphthalene	162	5.831	5.831	0.000	232773	1013.9	
60 2-Nitroaniline	65	5.911	5.911	0.000	32304	871.4	
62 Dimethyl phthalate	163	6.052	6.052	0.000	236231	1033.7	
63 2,6-Dinitrotoluene	165	6.104	6.104	0.000	60195	986.6	
64 Acenaphthylene	152	6.175	6.175	0.000	352210	1014.4	
65 3-Nitroaniline	138	6.251	6.251	0.000	37238	860.4	
68 4-Nitrophenol	109	6.402	6.402	0.000	69642	4118.8	M
66 Acenaphthene	153	6.314	6.314	0.000	236807	1008.7	
67 2,4-Dinitrophenol	184	6.331	6.331	0.000	121925	5588.3	
69 2,4-Dinitrotoluene	165	6.433	6.433	0.000	73368	1008.2	
70 Dibenzofuran	168	6.455	6.455	0.000	323542	1018.4	
71 2,3,5,6-Tetrachlorophenol	232	6.521	6.521	0.000	62528	975.5	
72 2,3,4,6-Tetrachlorophenol	232	6.558	6.558	0.000	64293	1060.2	
73 Diethyl phthalate	149	6.631	6.631	0.000	219499	971.8	
78 4,6-Dinitro-2-methylphenol	198	6.771	6.771	0.000	205104	5383.8	
76 4-Chlorophenyl phenyl ether	204	6.734	6.734	0.000	122045	1037.3	
75 Fluorene	166	6.736	6.736	0.000	263188	1012.9	
77 4-Nitroaniline	138	6.756	6.756	0.000	41308	1410.1	M
79 N-Nitrosodiphenylamine	169	6.827	6.827	0.000	210401	995.4	
80 Azobenzene	77	6.861	6.861	0.000	179112	900.7	
81 4-Bromophenyl phenyl ether	248	7.137	7.137	0.000	92213	1062.8	
82 Hexachlorobenzene	284	7.191	7.191	0.000	113042	1017.7	
83 Pentachlorophenol	266	7.355	7.355	0.000	38619	836.6	M
84 n-Octadecane	43	7.401	7.401	0.000	47086	833.5	
86 Phenanthrene	178	7.531	7.531	0.000	371861	992.8	
87 Anthracene	178	7.571	7.571	0.000	377790	1040.6	
89 Carbazole	167	7.701	7.701	0.000	277557	875.3	
90 Di-n-butyl phthalate	149	7.977	7.977	0.000	416256	957.6	
95 Fluoranthene	202	8.510	8.510	0.000	409965	1046.3	
94 Benzidine	184	8.621	8.621	0.000	131894	3128.4	M
93 Pyrene	202	8.698	8.698	0.000	450101	1004.2	
97 Butyl benzyl phthalate	149	9.211	9.211	0.000	183353	1037.1	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
98 3,3'-Dichlorobenzidine	252	9.691	9.691	0.000	291853	2467.3	
101 Bis(2-ethylhexyl) phthalate	149	9.717	9.717	0.000	268392	1000.5	
197 Di-isodecyl phthalate	149	10.395	10.395	0.000	413197	0	
100 Chrysene	228	9.754	9.754	0.000	404944	915.0	
99 Benzo[a]anthracene	228	9.719	9.719	0.000	415072	991.6	
102 Di-n-octyl phthalate	149	10.395	10.395	0.000	422548	1192.1	
103 Benzo[b]fluoranthene	252	10.829	10.829	0.000	443919	1117.4	
105 Benzofluoranthene	252	10.858	10.858	0.000	893628	2172.9	M
104 Benzo[k]fluoranthene	252	10.858	10.858	0.000	450417	1072.8	
106 Benzo[a]pyrene	252	11.161	11.161	0.000	401180	1016.7	
107 Indeno[1,2,3-cd]pyrene	276	12.490	12.490	0.000	420549	907.3	
108 Dibenz(a,h)anthracene	278	12.515	12.515	0.000	358921	938.3	
109 Benzo[g,h,i]perylene	276	12.859	12.859	0.000	331611	845.4	M

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 27-May-2010 14:44:56 Chrom Revision: 1.1 20-Apr-2010 06:13:18

Data File: \\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15206.D

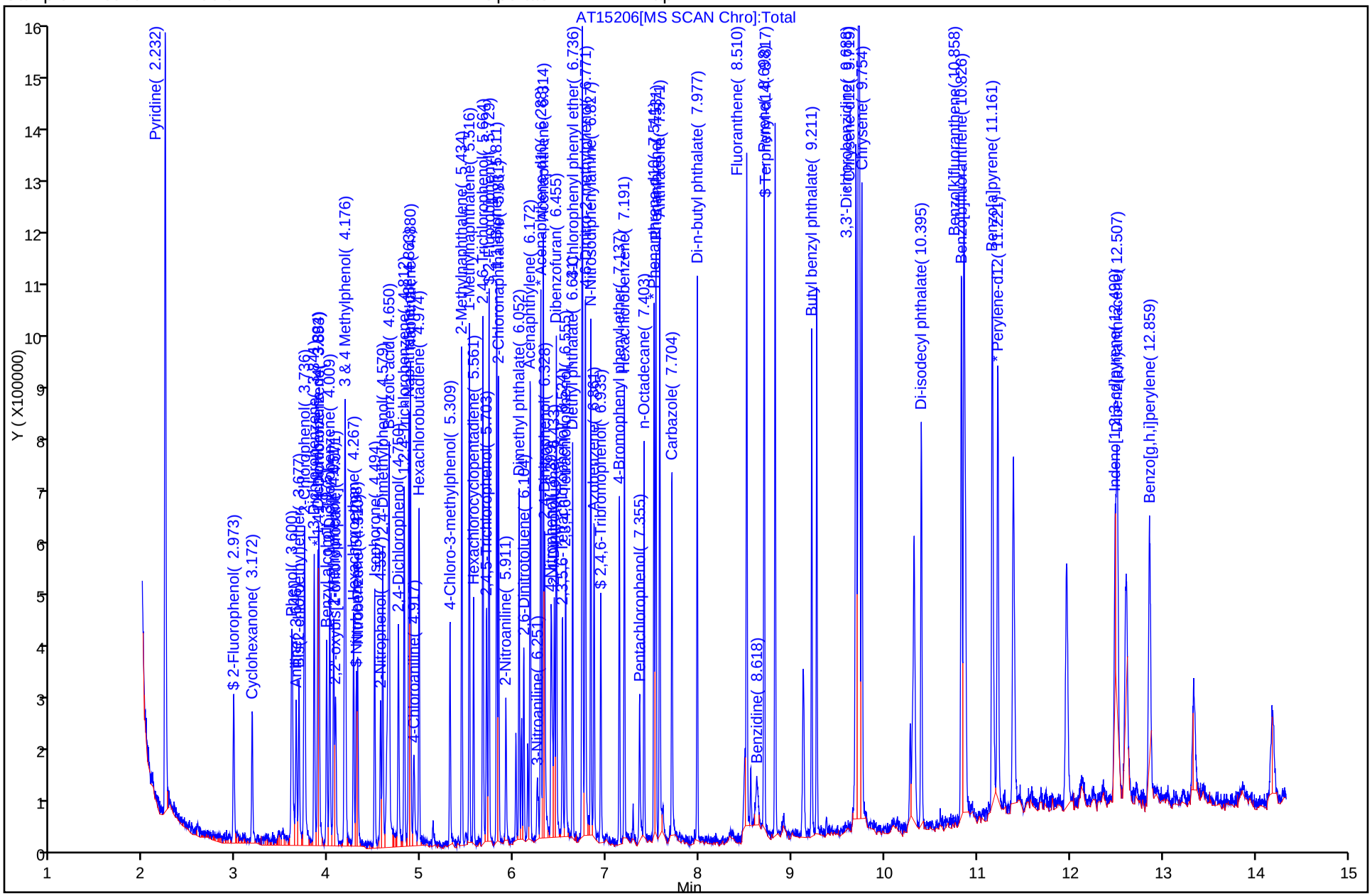
Inj Date: 27-May-2010 12:12:30 Limit Group: 8270C Standard

Lims Batch ID: 64507 Lims Sample ID: 3

Client ID: Instrument: TAC002

Sample Info: ccvis

Sample Amount: 1.00 ul Operator: ap



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Lab Sample ID: CCVIS 580-64507/3 Calibration Date: 05/27/2010 12:12

Instrument ID: TAC002 Calib Start Date: 04/06/2010 12:48

GC Column: DB-5MS ID: 0.25(mm) Calib End Date: 04/06/2010 15:13

Lab File ID: AT15206.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Di-isodecyl phthalate	Qua1		1.171			1000	-100.0	

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15206.D		
Lims ID:	ccvis	Client ID:	
Inject. Date:	27-May-2010 12:12:30	Dil. Factor:	1.0000
Sample Type:	CCVIS, Cal Verification ISTD Check		
Sample ID:	ccvis		
Misc. Info.:	580-0009155-003		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	3
Lims Batch ID:	64507	Lims Sample ID:	3
Sublist:	chrom-8270C TAC002*sub10		
Detector:	MS SCAN		
Method:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\8270C TAC002.m		
Last Update:	27-May-2010 14:44:56	Calib Date:	11-May-2010 17:59:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15090.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		
Reviewed By:	phama	Date:	27-May-2010 12:34:05
Reviewed By:	phama	Date:	27-May-2010 14:44:56

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.881	3.881	0.000	86429	994.5	
* 2 Naphthalene-d8	136	4.863	4.863	0.000	350432	997.0	
* 3 Acenaphthene-d10	164	6.288	6.288	0.000	196241	968.0	
* 4 Phenanthrene-d10	188	7.508	7.508	0.000	347373	984.5	
* 5 Chrysene-d12	240	9.731	9.731	0.000	377809	974.0	
* 6 Perylene-d12	264	11.221	11.221	0.000	326008	983.0	
$ 7 2-Fluorophenol	112	2.973	2.973	0.000	110427	1007.3	
$ 8 Phenol-d5	99	3.597	3.597	0.000	126972	893.5	
$ 9 Nitrobenzene-d5	82	4.296	4.296	0.000	104601	970.1	
$ 10 2-Fluorobiphenyl	172	5.729	5.729	0.000	287250	1026.9	
$ 11 2,4,6-Tribromophenol	329	6.935	6.935	0.000	51395	857.3	
$ 12 Terphenyl-d14	244	8.817	8.817	0.000	391547	1025.4	
22 Pyridine	52	2.232	2.232	0.000	205563	4096.2	
23 N-Nitrosodimethylamine	42	2.238	2.238	0.000	90557	4142.2	
24 Cyclohexanone	55	3.172	3.172	0.000	54575	822.9	
25 Phenol	94	3.606	3.606	0.000	127338	965.9	
27 Bis(2-chloroethyl)ether	93	3.677	3.677	0.000	126864	988.9	
26 Aniline	93	3.646	3.646	0.000	111663	803.1	M
28 2-Chlorophenol	128	3.734	3.734	0.000	113702	962.8	
29 n-Decane	57	3.742	3.742	0.000	78097	805.2	
30 1,3-Dichlorobenzene	146	3.841	3.841	0.000	138871	1055.3	
31 1,4-Dichlorobenzene	146	3.895	3.895	0.000	140591	1004.9	
32 Benzyl alcohol	108	3.975	3.975	0.000	67774	894.4	
34 2-Methylphenol	108	4.051	4.051	0.000	103205	946.5	
33 1,2-Dichlorobenzene	146	4.009	4.009	0.000	134384	1007.0	
35 2,2'-oxybis[1-chloropropane]	45	4.071	4.071	0.000	83712	781.9	
36 3 & 4 Methylphenol	108	4.168	4.168	0.000	103704	950.0	
37 Acetophenone	105	4.179	4.179	0.000	138732	931.7	
38 N-Nitrosodi-n-propylamine	70	4.171	4.171	0.000	59645	844.3	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
39 Hexachloroethane	117	4.264	4.264	0.000	45794	934.7	
40 Nitrobenzene	77	4.310	4.310	0.000	94627	926.3	
41 Isophorone	82	4.494	4.494	0.000	188200	942.7	
42 2-Nitrophenol	139	4.557	4.557	0.000	71836	1006.6	
43 2,4-Dimethylphenol	107	4.579	4.579	0.000	90321	979.7	
44 Benzoic acid	105	4.645	4.645	0.000	214337	6276.5	
45 Bis(2-chloroethoxy)methane	93	4.653	4.653	0.000	126491	1032.6	
46 2,4-Dichlorophenol	162	4.750	4.750	0.000	93752	986.0	
47 1,2,4-Trichlorobenzene	180	4.812	4.812	0.000	124113	1084.1	
49 4-Chloroaniline	127	4.920	4.920	0.000	68230	550.4	
48 Naphthalene	128	4.880	4.880	0.000	368932	996.7	
50 Hexachlorobutadiene	225	4.974	4.974	0.000	65010	1032.0	
51 4-Chloro-3-methylphenol	107	5.309	5.309	0.000	76302	967.7	
52 2-Methylnaphthalene	142	5.437	5.437	0.000	233719	1018.5	
53 1-Methylnaphthalene	142	5.516	5.516	0.000	245661	1002.4	
54 Hexachlorocyclopentadiene	237	5.561	5.561	0.000	65634	924.1	
56 2,3-Dichlorobenzenamine	161	5.661	5.661	0.000	120699	1015.3	
55 2,4,6-Trichlorophenol	196	5.664	5.664	0.000	67808	1065.3	
57 2,4,5-Trichlorophenol	196	5.703	5.703	0.000	75789	1022.5	
58 1,1'-Biphenyl	154	5.811	5.811	0.000	291925	1015.1	
59 2-Chloronaphthalene	162	5.831	5.831	0.000	232773	1013.9	
60 2-Nitroaniline	65	5.911	5.911	0.000	32304	871.4	
62 Dimethyl phthalate	163	6.052	6.052	0.000	236231	1033.7	
63 2,6-Dinitrotoluene	165	6.104	6.104	0.000	60195	986.6	
64 Acenaphthylene	152	6.175	6.175	0.000	352210	1014.4	
65 3-Nitroaniline	138	6.251	6.251	0.000	37238	860.4	
68 4-Nitrophenol	109	6.402	6.402	0.000	69642	4118.8	M
66 Acenaphthene	153	6.314	6.314	0.000	236807	1008.7	
67 2,4-Dinitrophenol	184	6.331	6.331	0.000	121925	5588.3	
69 2,4-Dinitrotoluene	165	6.433	6.433	0.000	73368	1008.2	
70 Dibenzofuran	168	6.455	6.455	0.000	323542	1018.4	
71 2,3,5,6-Tetrachlorophenol	232	6.521	6.521	0.000	62528	975.5	
72 2,3,4,6-Tetrachlorophenol	232	6.558	6.558	0.000	64293	1060.2	
73 Diethyl phthalate	149	6.631	6.631	0.000	219499	971.8	
78 4,6-Dinitro-2-methylphenol	198	6.771	6.771	0.000	205104	5383.8	
76 4-Chlorophenyl phenyl ether	204	6.734	6.734	0.000	122045	1037.3	
75 Fluorene	166	6.736	6.736	0.000	263188	1012.9	
77 4-Nitroaniline	138	6.756	6.756	0.000	41308	1410.1	M
79 N-Nitrosodiphenylamine	169	6.827	6.827	0.000	210401	995.4	
80 Azobenzene	77	6.861	6.861	0.000	179112	900.7	
81 4-Bromophenyl phenyl ether	248	7.137	7.137	0.000	92213	1062.8	
82 Hexachlorobenzene	284	7.191	7.191	0.000	113042	1017.7	
83 Pentachlorophenol	266	7.355	7.355	0.000	38619	836.6	M
84 n-Octadecane	43	7.401	7.401	0.000	47086	833.5	
86 Phenanthrene	178	7.531	7.531	0.000	371861	992.8	
87 Anthracene	178	7.571	7.571	0.000	377790	1040.6	
89 Carbazole	167	7.701	7.701	0.000	277557	875.3	
90 Di-n-butyl phthalate	149	7.977	7.977	0.000	416256	957.6	
95 Fluoranthene	202	8.510	8.510	0.000	409965	1046.3	
94 Benzidine	184	8.621	8.621	0.000	131894	3128.4	M
93 Pyrene	202	8.698	8.698	0.000	450101	1004.2	
97 Butyl benzyl phthalate	149	9.211	9.211	0.000	183353	1037.1	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
98 3,3'-Dichlorobenzidine	252	9.691	9.691	0.000	291853	2467.3	
101 Bis(2-ethylhexyl) phthalate	149	9.717	9.717	0.000	268392	1000.5	
197 Di-isodecyl phthalate	149	10.395	10.395	0.000	413197	0	
100 Chrysene	228	9.754	9.754	0.000	404944	915.0	
99 Benzo[a]anthracene	228	9.719	9.719	0.000	415072	991.6	
102 Di-n-octyl phthalate	149	10.395	10.395	0.000	422548	1192.1	
103 Benzo[b]fluoranthene	252	10.829	10.829	0.000	443919	1117.4	
105 Benzofluoranthene	252	10.858	10.858	0.000	893628	2172.9	M
104 Benzo[k]fluoranthene	252	10.858	10.858	0.000	450417	1072.8	
106 Benzo[a]pyrene	252	11.161	11.161	0.000	401180	1016.7	
107 Indeno[1,2,3-cd]pyrene	276	12.490	12.490	0.000	420549	907.3	
108 Dibenz(a,h)anthracene	278	12.515	12.515	0.000	358921	938.3	
109 Benzo[g,h,i]perylene	276	12.859	12.859	0.000	331611	845.4	M

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 27-May-2010 14:44:56 Chrom Revision: 1.1 20-Apr-2010 06:13:18

Data File: \\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15206.D

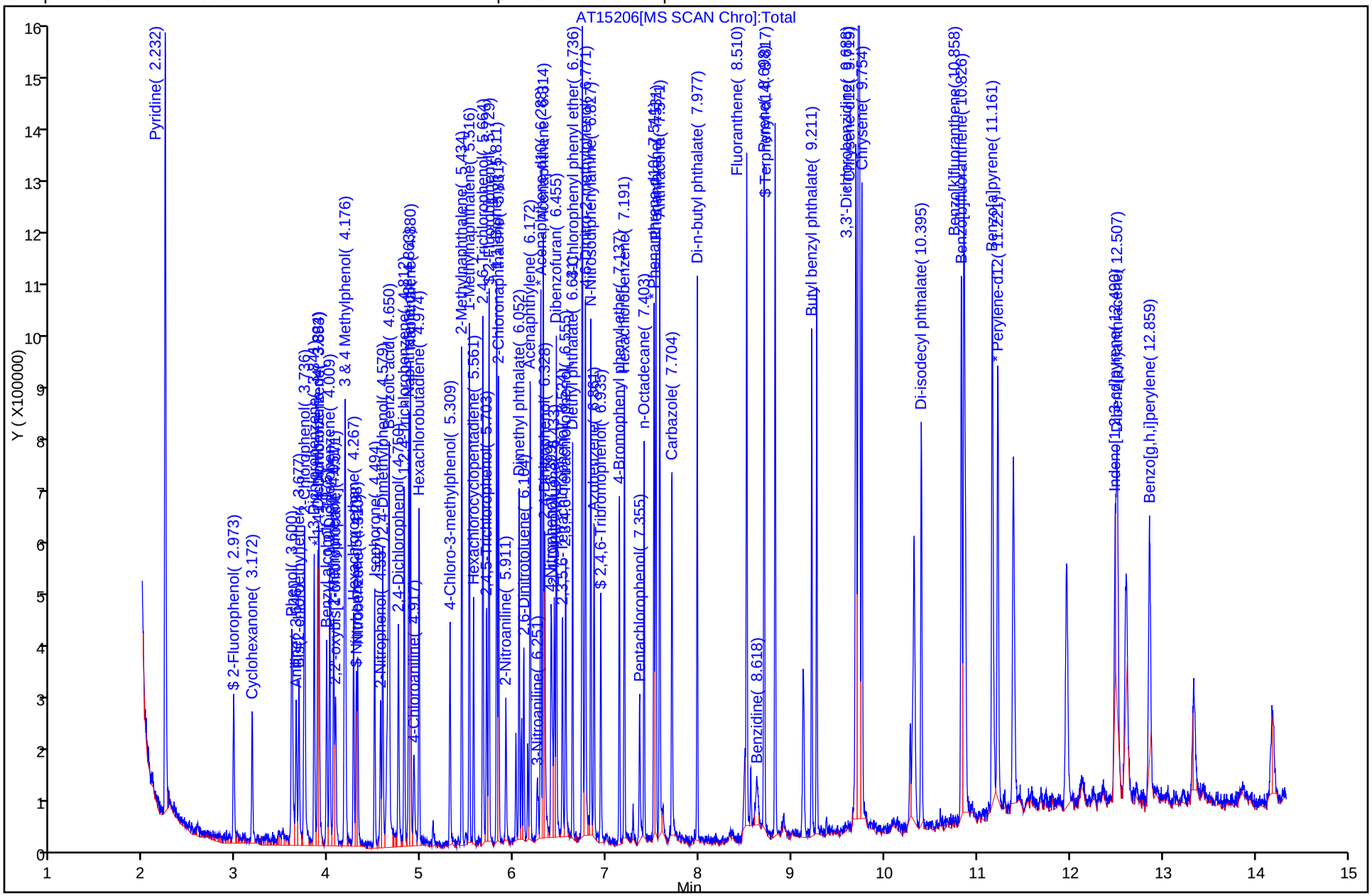
Inj Date: 27-May-2010 12:12:30 Limit Group: 8270C Standard

Lims Batch ID: 64507 Lims Sample ID: 3

Client ID: Instrument: TAC002

Sample Info: ccvis

Sample Amount: 1.00 ul Operator: ap



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Lab Sample ID: CCVIS 580-64507/3 Calibration Date: 05/27/2010 12:12

Instrument ID: TAC002 Calib Start Date: 05/11/2010 15:36

GC Column: DB-5MS ID: 0.25(mm) Calib End Date: 05/11/2010 17:59

Lab File ID: AT15206.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Pyridine	Lin1		0.4731		4100	5000	-18.1	
N-Nitrosodimethylamine	Lin1		0.2084		4140	5000	-17.2	
Cyclohexanone	Ave	0.7631	0.6280		823	1000	-17.7	
Phenol	Ave	1.517	1.465		966	1000	-3.4	20.0
Aniline	Ave	1.600	1.285		803	1000	-19.7	
Bis(2-chloroethyl)ether	Lin1		1.460		989	1000	-1.1	
2-Chlorophenol	Ave	1.359	1.308		963	1000	-3.7	
n-Decane	Ave	1.116	0.8986		805	1000	-19.5	
1,3-Dichlorobenzene	Ave	1.514	1.598		1060	1000	5.5	
1,4-Dichlorobenzene	Ave	1.610	1.618		1000	1000	0.5	20.0
Benzyl alcohol	Lin1		0.7799		894	1000	-10.6	
1,2-Dichlorobenzene	Ave	1.536	1.546		1010	1000	0.7	
2-Methylphenol	Ave	1.255	1.188		946	1000	-5.4	
bis(chloroisopropyl) ether	Ave	1.232	0.9632		782	1000	-21.8	
3 & 4 Methylphenol	Ave	1.256	1.193		950	1000	-5.0	
N-Nitrosodi-n-propylamine	Ave	0.8129	0.6863	0.0500	844	1000	-15.6	
Acetophenone	Ave	1.713	1.596		932	1000	-6.8	
Hexachloroethane	Ave	0.5638	0.5269		935	1000	-6.5	
Nitrobenzene	Ave	0.2906	0.2692		926	1000	-7.4	
Isophorone	Ave	0.5680	0.5354		943	1000	-5.7	
2-Nitrophenol	Lin1		0.2044		1010	1000	0.7	20.0
2,4-Dimethylphenol	Ave	0.2623	0.2570		980	1000	-2.0	
Benzoic acid	Qua1		0.1220		6280	5000	25.5	
Bis(2-chloroethoxy)methane	Ave	0.3485	0.3599		1030	1000	3.3	
2,4-Dichlorophenol	Ave	0.2705	0.2667		986	1000	-1.4	20.0
1,2,4-Trichlorobenzene	Ave	0.3257	0.3531		1080	1000	8.4	
Naphthalene	Ave	1.053	1.050		997	1000	-0.3	
4-Chloroaniline	Qua2		0.1941		550	1000	-45.0	
Hexachlorobutadiene	Lin1		0.1850		1030	1000	3.2	20.0
4-Chloro-3-methylphenol	Ave	0.2243	0.2171		968	1000	-3.2	20.0
2-Methylnaphthalene	Ave	0.6528	0.6649		1020	1000	1.9	
1-Methylnaphthalene	Ave	0.6973	0.6989		1000	1000	0.2	
Hexachlorocyclopentadiene	Lin1		0.3238	0.0500	924	1000	-7.6	
2,3-Dichloroaniline	Ave	0.5864	0.5956		1020	1000	1.6	
2,4,6-Trichlorophenol	Ave	0.3140	0.3345		1070	1000	6.5	
2,4,5-Trichlorophenol	Ave	0.3656	0.3739		1020	1000	2.3	
Biphenyl	Ave	1.419	1.440		1020	1000	1.5	
2-Chloronaphthalene	Ave	1.132	1.148		1010	1000	1.4	
2-Nitroaniline	Lin1		0.1594		871	1000	-12.9	
Dimethyl phthalate	Ave	1.127	1.165		1030	1000	3.4	
2,6-Dinitrotoluene	Lin1		0.2969		987	1000	-1.3	

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Lab Sample ID: CCVIS 580-64507/3 Calibration Date: 05/27/2010 12:12

Instrument ID: TAC002 Calib Start Date: 05/11/2010 15:36

GC Column: DB-5MS ID: 0.25(mm) Calib End Date: 05/11/2010 17:59

Lab File ID: AT15206.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acenaphthylene	Ave	1.713	1.737		1010	1000	1.4	
3-Nitroaniline	Qua1		0.1837		860	1000	-14.0	
Acenaphthene	Ave	1.158	1.168		1010	1000	0.9	20.0
2,4-Dinitrophenol	Qua2		0.1203	0.0500	5590	5000	11.8	
4-Nitrophenol	Lin1		0.0687	0.0500	4120	5000	-17.6	
2,4-Dinitrotoluene	Lin1		0.3619		1010	1000	0.8	
Dibenzofuran	Ave	1.567	1.596		1020	1000	1.8	
2,3,5,6-Tetrachlorophenol	Lin1		0.3084		975	1000	-2.5	
2,3,4,6-Tetrachlorophenol	Ave	0.2991	0.3171		1060	1000	6.0	
Diethyl phthalate	Ave	1.114	1.083		972	1000	-2.8	
4-Chlorophenyl phenyl ether	Ave	0.5804	0.6020		1040	1000	3.7	
Fluorene	Ave	1.282	1.298		1010	1000	1.3	
4-Nitroaniline	Qua		0.2038		1410	1000	41.0	
4,6-Dinitro-2-methylphenol	Qua1		0.1163		5380	5000	7.7	
N-Nitrosodiphenylamine	Ave	0.5990	0.5963		995	1000	-0.5	
Azobenzene	Ave	0.5636	0.5076		901	1000	-9.9	
4-Bromophenyl phenyl ether	Qua		0.2613		1060	1000	6.3	
Hexachlorobenzene	Lin1		0.3204		1020	1000	1.8	
Pentachlorophenol	Lin1		0.1095		837	1000	-16.3	20.0
Octadecane	Ave	0.1601	0.1335		833	1000	-16.6	
Phenanthrene	Ave	1.061	1.054		993	1000	-0.7	
Anthracene	Ave	1.029	1.071		1040	1000	4.1	
Carbazole	Ave	0.8856	0.7866		875	1000	-11.2	
Di-n-butyl phthalate	Ave	1.232	1.180		958	1000	-4.2	
Fluoranthene	Ave	1.110	1.162		1050	1000	4.6	20.0
Benzidine	Qua		0.1869		3130	2000	56.4	
Pyrene	Ave	1.270	1.276		1000	1000	0.4	
Butyl benzyl phthalate	Ave	0.4558	0.4727		1040	1000	3.7	
3,3'-Dichlorobenzidine	Ave	0.3049	0.3762		2470	2000	23.4	
Bis(2-ethylhexyl) phthalate	Ave	0.6916	0.6919		1000	1000	0.1	
Benzo[a]anthracene	Ave	1.079	1.070		992	1000	-0.8	
Chrysene	Ave	1.141	1.044		915	1000	-8.5	
Di-n-octyl phthalate	Ave	1.069	1.274		1190	1000	19.2	20.0
Benzo[b]fluoranthene	Ave	1.198	1.339		1120	1000	11.7	
Benzo[k]fluoranthene	Ave	1.266	1.358		1070	1000	7.3	
Benzofluoranthene	Ave	1.240	1.347		2170	2000	8.6	
Benzo[a]pyrene	Ave	1.190	1.210		1020	1000	1.7	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.398	1.268		907	1000	-9.3	
Dibenz(a,h)anthracene	Ave	1.153	1.082		938	1000	-6.2	
Benzo[g,h,i]perylene	Ave	1.183	1.000		845	1000	-15.5	
2-Fluorophenol	Ave	1.261	1.281		1010	992	1.5	

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Lab Sample ID: CCVIS 580-64507/3 Calibration Date: 05/27/2010 12:12

Instrument ID: TAC002 Calib Start Date: 05/11/2010 15:36

GC Column: DB-5MS ID: 0.25(mm) Calib End Date: 05/11/2010 17:59

Lab File ID: AT15206.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Phenol-d5	Ave	1.635	1.493		894	978	-8.7	
Nitrobenzene-d5	Ave	0.3068	0.3024		970	984	-1.4	
2-Fluorobiphenyl	Ave	1.380	1.437		1030	986	4.1	
2,4,6-Tribromophenol	Ave	0.1699	0.1479		857	985	-12.9	
Terphenyl-d14	Ave	0.9844	1.041		1030	970	5.7	

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15206.D		
Lims ID:	ccvis	Client ID:	
Inject. Date:	27-May-2010 12:12:30	Dil. Factor:	1.0000
Sample Type:	CCVIS, Cal Verification ISTD Check		
Sample ID:	ccvis		
Misc. Info.:	580-0009155-003		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	3
Lims Batch ID:	64507	Lims Sample ID:	3
Sublist:	chrom-8270C TAC002*sub10		
Detector:	MS SCAN		
Method:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\8270C TAC002.m		
Last Update:	27-May-2010 14:44:56	Calib Date:	11-May-2010 17:59:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15090.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		
Reviewed By:	phama	Date:	27-May-2010 12:34:05
Reviewed By:	phama	Date:	27-May-2010 14:44:56

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.881	3.881	0.000	86429	994.5	
* 2 Naphthalene-d8	136	4.863	4.863	0.000	350432	997.0	
* 3 Acenaphthene-d10	164	6.288	6.288	0.000	196241	968.0	
* 4 Phenanthrene-d10	188	7.508	7.508	0.000	347373	984.5	
* 5 Chrysene-d12	240	9.731	9.731	0.000	377809	974.0	
* 6 Perylene-d12	264	11.221	11.221	0.000	326008	983.0	
$ 7 2-Fluorophenol	112	2.973	2.973	0.000	110427	1007.3	
$ 8 Phenol-d5	99	3.597	3.597	0.000	126972	893.5	
$ 9 Nitrobenzene-d5	82	4.296	4.296	0.000	104601	970.1	
$ 10 2-Fluorobiphenyl	172	5.729	5.729	0.000	287250	1026.9	
$ 11 2,4,6-Tribromophenol	329	6.935	6.935	0.000	51395	857.3	
$ 12 Terphenyl-d14	244	8.817	8.817	0.000	391547	1025.4	
22 Pyridine	52	2.232	2.232	0.000	205563	4096.2	
23 N-Nitrosodimethylamine	42	2.238	2.238	0.000	90557	4142.2	
24 Cyclohexanone	55	3.172	3.172	0.000	54575	822.9	
25 Phenol	94	3.606	3.606	0.000	127338	965.9	
27 Bis(2-chloroethyl)ether	93	3.677	3.677	0.000	126864	988.9	
26 Aniline	93	3.646	3.646	0.000	111663	803.1	M
28 2-Chlorophenol	128	3.734	3.734	0.000	113702	962.8	
29 n-Decane	57	3.742	3.742	0.000	78097	805.2	
30 1,3-Dichlorobenzene	146	3.841	3.841	0.000	138871	1055.3	
31 1,4-Dichlorobenzene	146	3.895	3.895	0.000	140591	1004.9	
32 Benzyl alcohol	108	3.975	3.975	0.000	67774	894.4	
34 2-Methylphenol	108	4.051	4.051	0.000	103205	946.5	
33 1,2-Dichlorobenzene	146	4.009	4.009	0.000	134384	1007.0	
35 2,2'-oxybis[1-chloropropane]	45	4.071	4.071	0.000	83712	781.9	
36 3 & 4 Methylphenol	108	4.168	4.168	0.000	103704	950.0	
37 Acetophenone	105	4.179	4.179	0.000	138732	931.7	
38 N-Nitrosodi-n-propylamine	70	4.171	4.171	0.000	59645	844.3	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
39 Hexachloroethane	117	4.264	4.264	0.000	45794	934.7	
40 Nitrobenzene	77	4.310	4.310	0.000	94627	926.3	
41 Isophorone	82	4.494	4.494	0.000	188200	942.7	
42 2-Nitrophenol	139	4.557	4.557	0.000	71836	1006.6	
43 2,4-Dimethylphenol	107	4.579	4.579	0.000	90321	979.7	
44 Benzoic acid	105	4.645	4.645	0.000	214337	6276.5	
45 Bis(2-chloroethoxy)methane	93	4.653	4.653	0.000	126491	1032.6	
46 2,4-Dichlorophenol	162	4.750	4.750	0.000	93752	986.0	
47 1,2,4-Trichlorobenzene	180	4.812	4.812	0.000	124113	1084.1	
49 4-Chloroaniline	127	4.920	4.920	0.000	68230	550.4	
48 Naphthalene	128	4.880	4.880	0.000	368932	996.7	
50 Hexachlorobutadiene	225	4.974	4.974	0.000	65010	1032.0	
51 4-Chloro-3-methylphenol	107	5.309	5.309	0.000	76302	967.7	
52 2-Methylnaphthalene	142	5.437	5.437	0.000	233719	1018.5	
53 1-Methylnaphthalene	142	5.516	5.516	0.000	245661	1002.4	
54 Hexachlorocyclopentadiene	237	5.561	5.561	0.000	65634	924.1	
56 2,3-Dichlorobenzenamine	161	5.661	5.661	0.000	120699	1015.3	
55 2,4,6-Trichlorophenol	196	5.664	5.664	0.000	67808	1065.3	
57 2,4,5-Trichlorophenol	196	5.703	5.703	0.000	75789	1022.5	
58 1,1'-Biphenyl	154	5.811	5.811	0.000	291925	1015.1	
59 2-Chloronaphthalene	162	5.831	5.831	0.000	232773	1013.9	
60 2-Nitroaniline	65	5.911	5.911	0.000	32304	871.4	
62 Dimethyl phthalate	163	6.052	6.052	0.000	236231	1033.7	
63 2,6-Dinitrotoluene	165	6.104	6.104	0.000	60195	986.6	
64 Acenaphthylene	152	6.175	6.175	0.000	352210	1014.4	
65 3-Nitroaniline	138	6.251	6.251	0.000	37238	860.4	
68 4-Nitrophenol	109	6.402	6.402	0.000	69642	4118.8	M
66 Acenaphthene	153	6.314	6.314	0.000	236807	1008.7	
67 2,4-Dinitrophenol	184	6.331	6.331	0.000	121925	5588.3	
69 2,4-Dinitrotoluene	165	6.433	6.433	0.000	73368	1008.2	
70 Dibenzofuran	168	6.455	6.455	0.000	323542	1018.4	
71 2,3,5,6-Tetrachlorophenol	232	6.521	6.521	0.000	62528	975.5	
72 2,3,4,6-Tetrachlorophenol	232	6.558	6.558	0.000	64293	1060.2	
73 Diethyl phthalate	149	6.631	6.631	0.000	219499	971.8	
78 4,6-Dinitro-2-methylphenol	198	6.771	6.771	0.000	205104	5383.8	
76 4-Chlorophenyl phenyl ether	204	6.734	6.734	0.000	122045	1037.3	
75 Fluorene	166	6.736	6.736	0.000	263188	1012.9	
77 4-Nitroaniline	138	6.756	6.756	0.000	41308	1410.1	M
79 N-Nitrosodiphenylamine	169	6.827	6.827	0.000	210401	995.4	
80 Azobenzene	77	6.861	6.861	0.000	179112	900.7	
81 4-Bromophenyl phenyl ether	248	7.137	7.137	0.000	92213	1062.8	
82 Hexachlorobenzene	284	7.191	7.191	0.000	113042	1017.7	
83 Pentachlorophenol	266	7.355	7.355	0.000	38619	836.6	M
84 n-Octadecane	43	7.401	7.401	0.000	47086	833.5	
86 Phenanthrene	178	7.531	7.531	0.000	371861	992.8	
87 Anthracene	178	7.571	7.571	0.000	377790	1040.6	
89 Carbazole	167	7.701	7.701	0.000	277557	875.3	
90 Di-n-butyl phthalate	149	7.977	7.977	0.000	416256	957.6	
95 Fluoranthene	202	8.510	8.510	0.000	409965	1046.3	
94 Benzidine	184	8.621	8.621	0.000	131894	3128.4	M
93 Pyrene	202	8.698	8.698	0.000	450101	1004.2	
97 Butyl benzyl phthalate	149	9.211	9.211	0.000	183353	1037.1	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
98 3,3'-Dichlorobenzidine	252	9.691	9.691	0.000	291853	2467.3	
101 Bis(2-ethylhexyl) phthalate	149	9.717	9.717	0.000	268392	1000.5	
197 Di-isodecyl phthalate	149	10.395	10.395	0.000	413197	0	
100 Chrysene	228	9.754	9.754	0.000	404944	915.0	
99 Benzo[a]anthracene	228	9.719	9.719	0.000	415072	991.6	
102 Di-n-octyl phthalate	149	10.395	10.395	0.000	422548	1192.1	
103 Benzo[b]fluoranthene	252	10.829	10.829	0.000	443919	1117.4	
105 Benzofluoranthene	252	10.858	10.858	0.000	893628	2172.9	M
104 Benzo[k]fluoranthene	252	10.858	10.858	0.000	450417	1072.8	
106 Benzo[a]pyrene	252	11.161	11.161	0.000	401180	1016.7	
107 Indeno[1,2,3-cd]pyrene	276	12.490	12.490	0.000	420549	907.3	
108 Dibenz(a,h)anthracene	278	12.515	12.515	0.000	358921	938.3	
109 Benzo[g,h,i]perylene	276	12.859	12.859	0.000	331611	845.4	M

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 27-May-2010 14:44:56 Chrom Revision: 1.1 20-Apr-2010 06:13:18

Data File: \\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15206.D

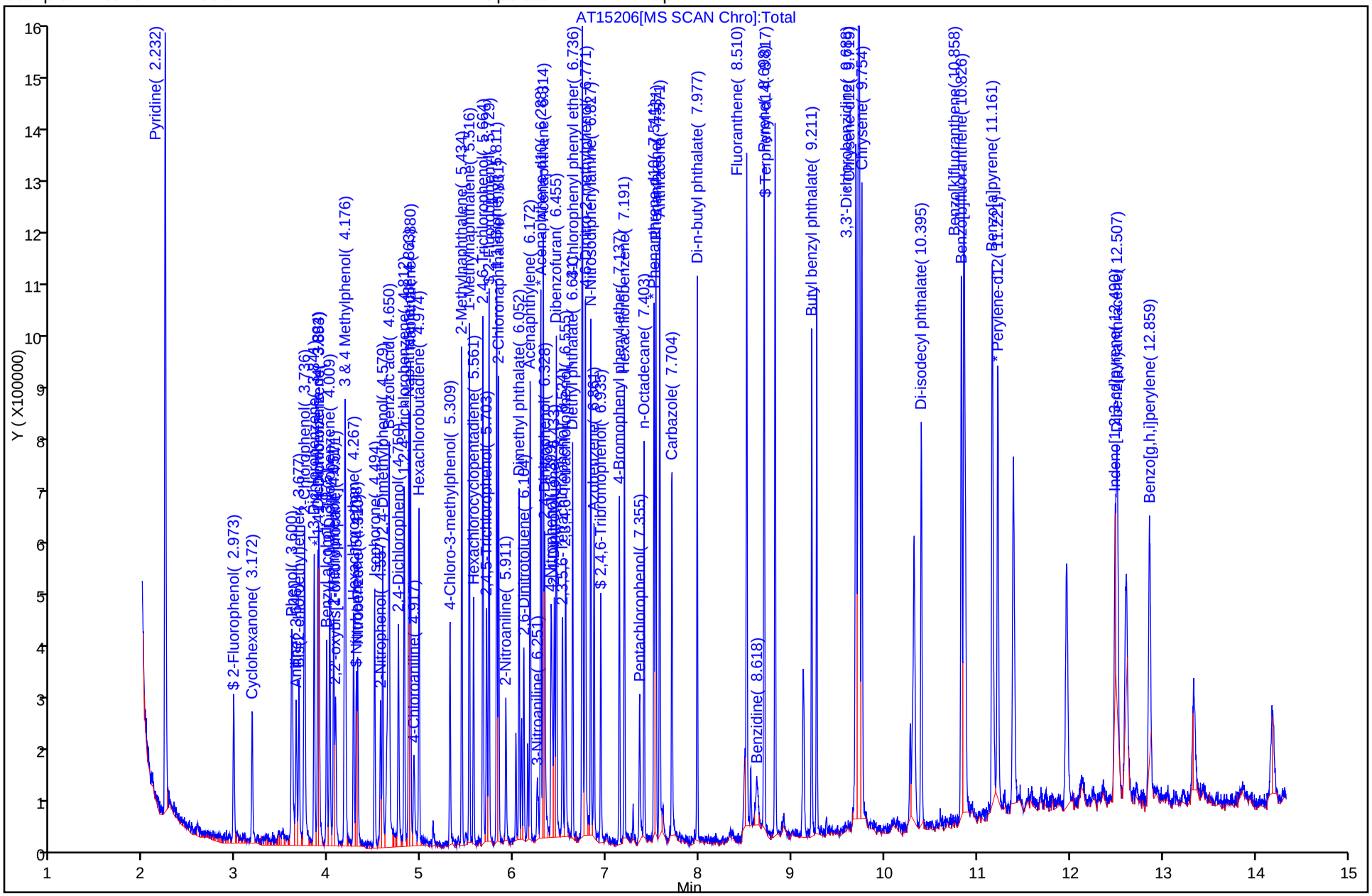
Inj Date: 27-May-2010 12:12:30 Limit Group: 8270C Standard

Lims Batch ID: 64507 Lims Sample ID: 3

Client ID: Instrument: TAC002

Sample Info: ccvis

Sample Amount: 1.00 ul Operator: ap



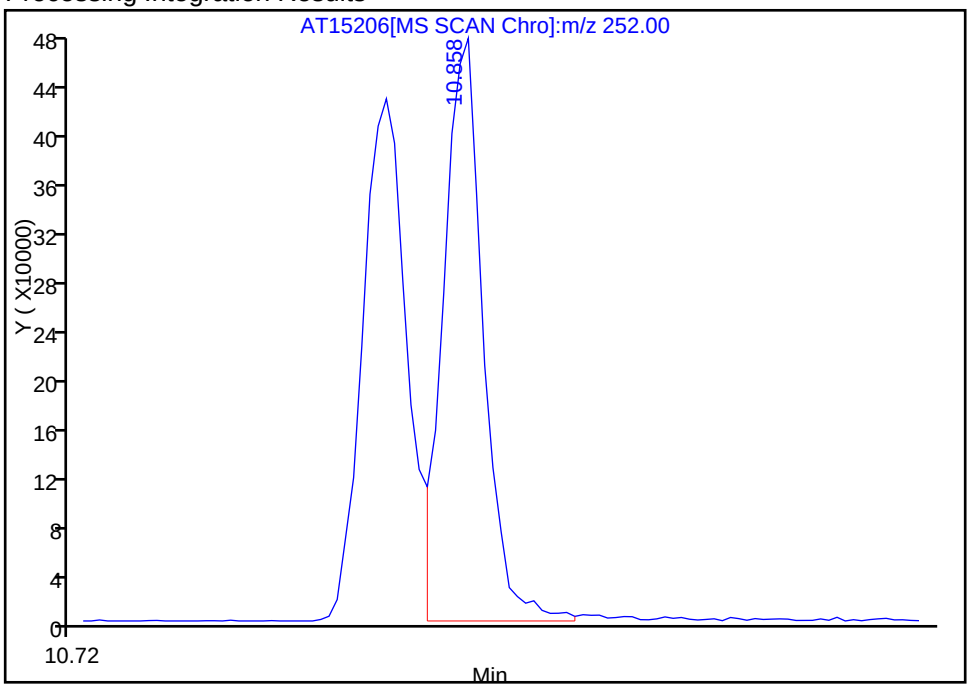
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15206.D		
Inj Date:	27-May-2010 12:12:30	Limit Group:	8270C Standard
Lims Batch ID:	64507	Lims Sample ID:	3
Client ID:		Instrument:	TAC002
Sample Info:	ccvis		
Sample Amount:	1.00 ul	Operator:	ap

105 Benzofluoranthene, Number: 1, m/z: 252 Type: quant, RT: 10.86

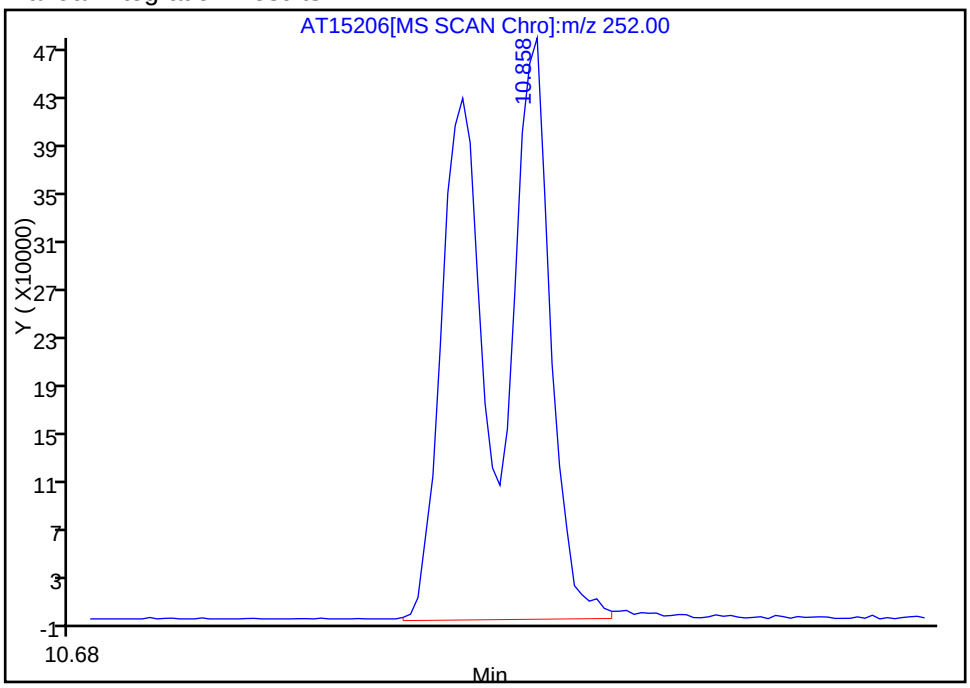
Processing Integration Results

RT: 10.86
Response: 450417
Amount: 1095.2041



Manual Integration Results

RT: 10.86
Response: 893628
Amount: 2172.8866



Reviewer: phama, 27-May-2010 12:34:05
Audit Action: Manually Integrated
Audit Reason: Other

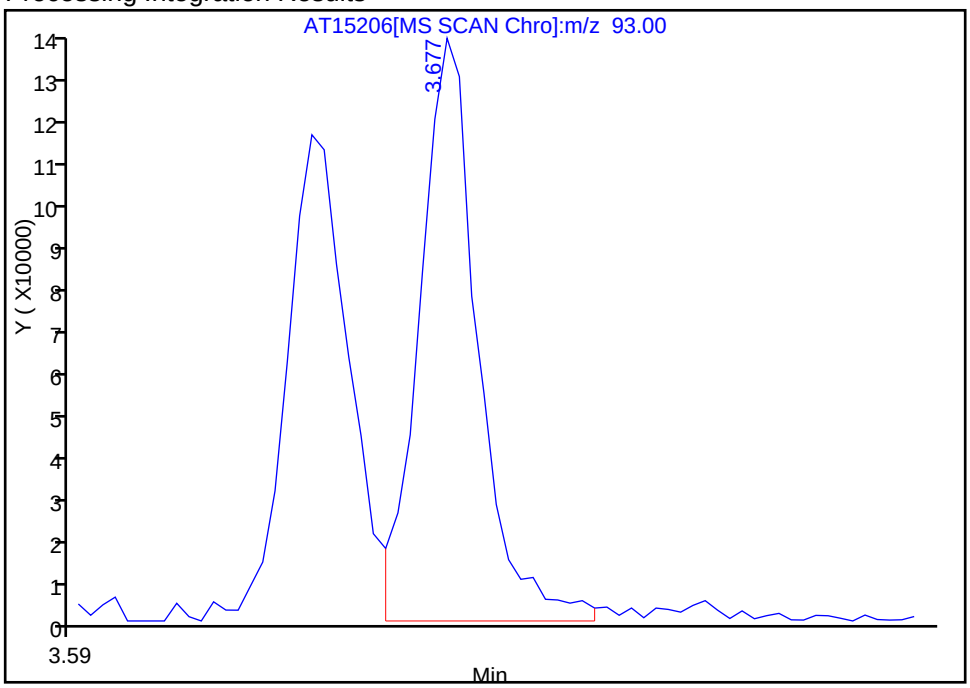
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15206.D		
Inj Date:	27-May-2010 12:12:30	Limit Group:	8270C Standard
Lims Batch ID:	64507	Lims Sample ID:	3
Client ID:		Instrument:	TAC002
Sample Info:	ccvis		
Sample Amount:	1.00 ul	Operator:	ap

26 Aniline, Number: 1, m/z: 93 Type: quant, RT: 3.65

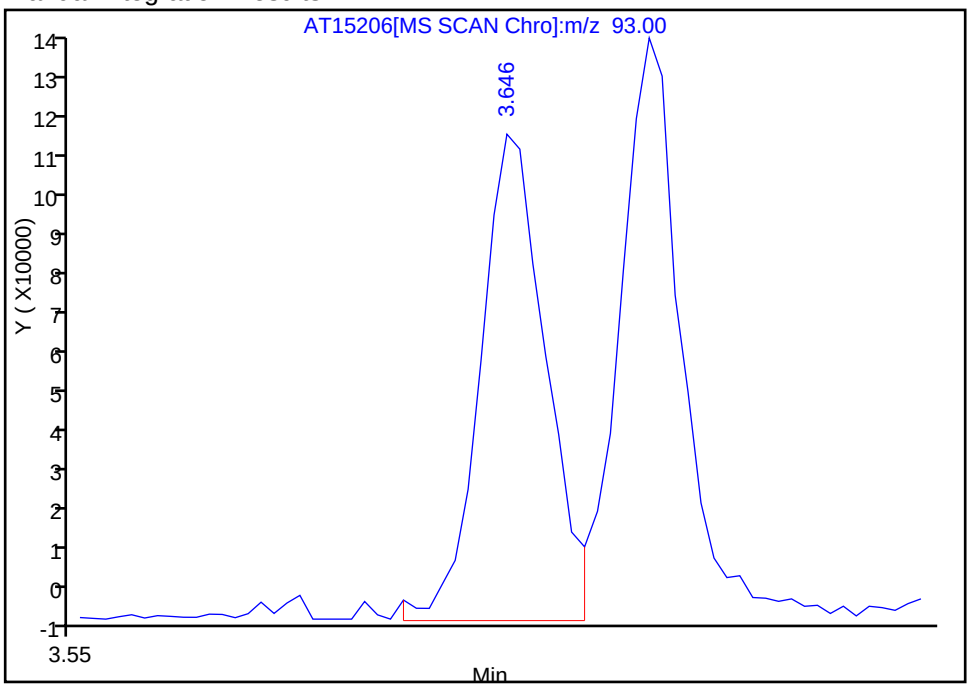
Processing Integration Results

RT: 3.68
Response: 126864
Amount: 912.4388



Manual Integration Results

RT: 3.65
Response: 111663
Amount: 803.1093



Reviewer: phama, 27-May-2010 12:34:05
Audit Action: Manually Integrated
Audit Reason: Wrong peak

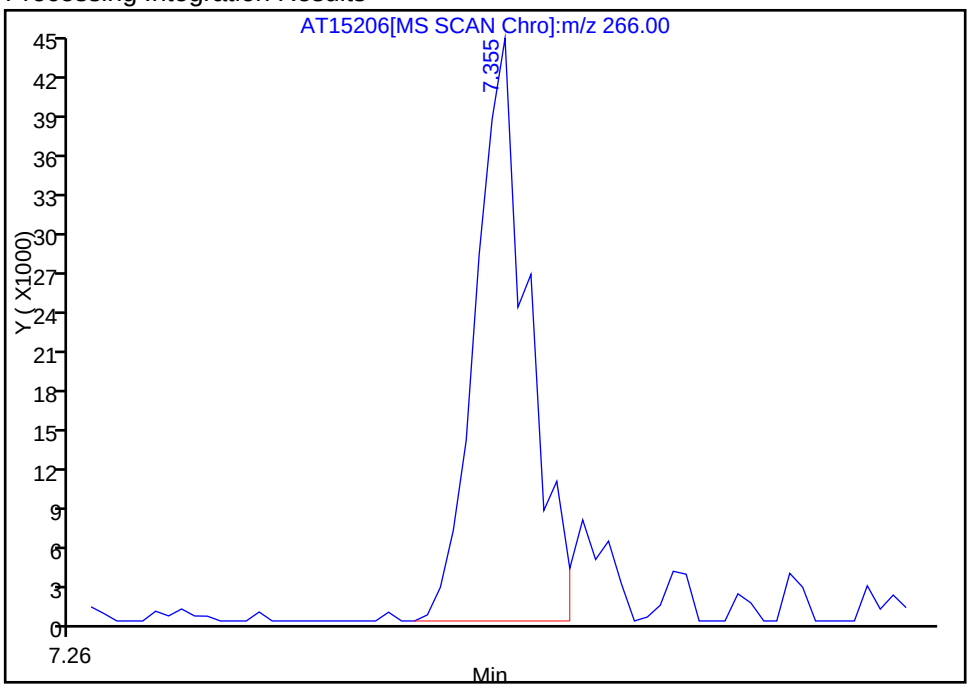
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15206.D		
Inj Date:	27-May-2010 12:12:30	Limit Group:	8270C Standard
Lims Batch ID:	64507	Lims Sample ID:	3
Client ID:		Instrument:	TAC002
Sample Info:	ccvis		
Sample Amount:	1.00 ul	Operator:	ap

83 Pentachlorophenol, Number: 1, m/z: 266 Type: quant, RT: 7.36

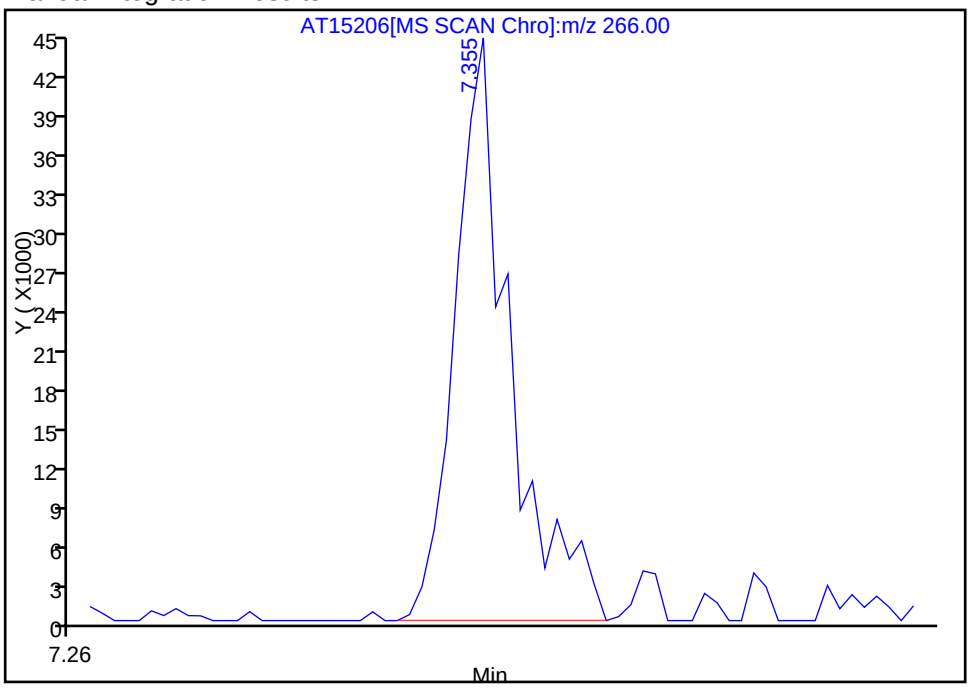
Processing Integration Results

RT: 7.36
Response: 34758
Amount: 760.4723



Manual Integration Results

RT: 7.36
Response: 38619
Amount: 836.5602



Reviewer: phama, 27-May-2010 12:34:05
Audit Action: Manually Integrated
Audit Reason: Other

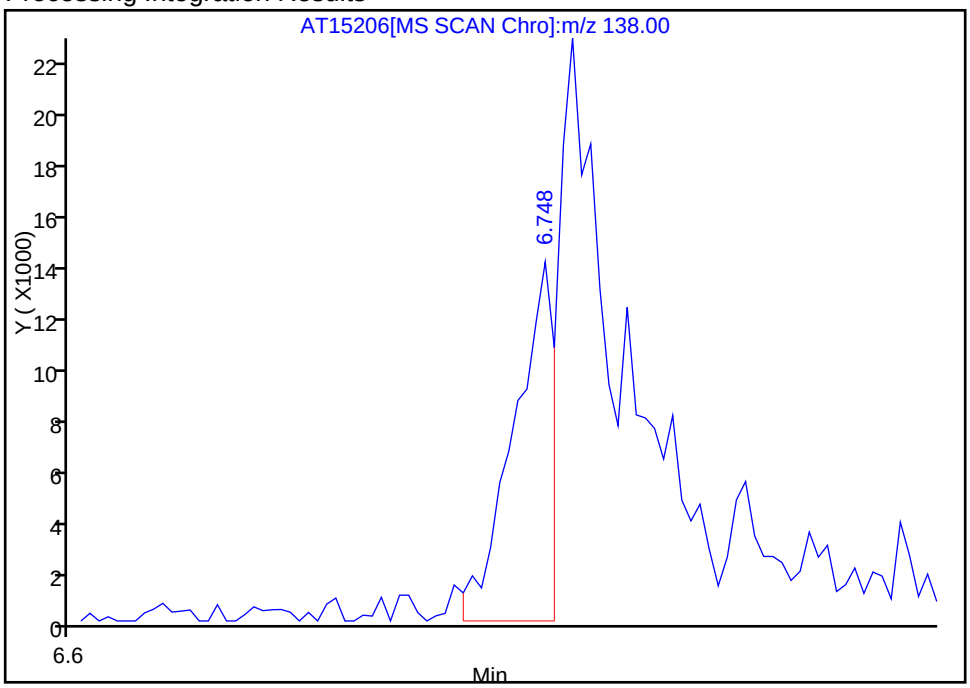
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15206.D		
Inj Date:	27-May-2010 12:12:30	Limit Group:	8270C Standard
Lims Batch ID:	64507	Lims Sample ID:	3
Client ID:		Instrument:	TAC002
Sample Info:	ccvis		
Sample Amount:	1.00 ul	Operator:	ap

77 4-Nitroaniline, Number: 1, m/z: 138 Type: quant, RT: 6.76

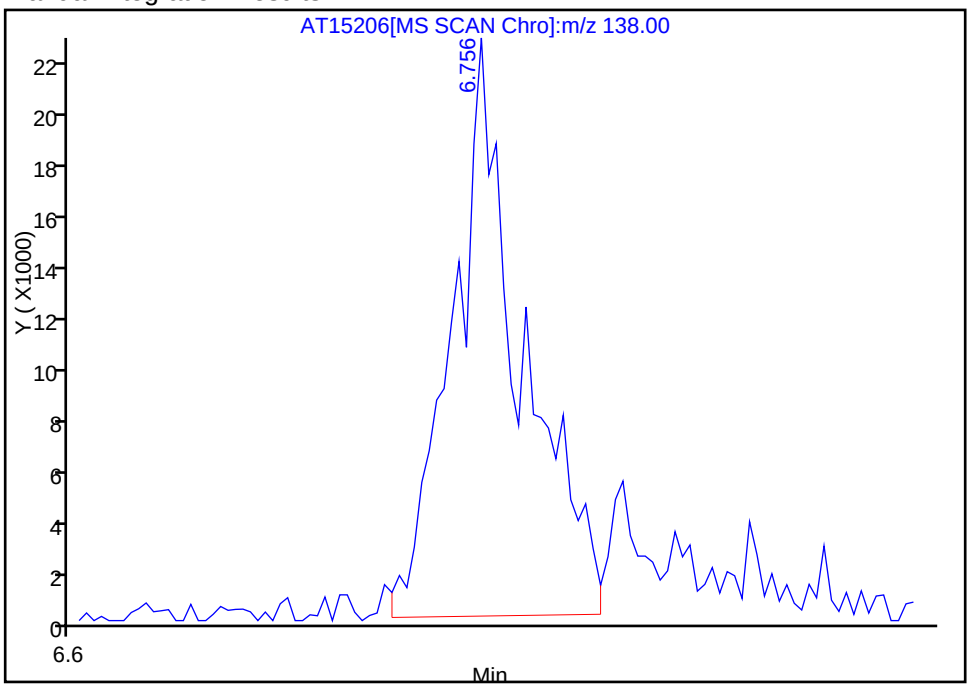
Processing Integration Results

RT: 6.75
Response: 11499
Amount: 291.8834



Manual Integration Results

RT: 6.76
Response: 41308
Amount: 1410.0846



Reviewer: phama, 27-May-2010 12:34:05
Audit Action: Manually Integrated
Audit Reason: Other

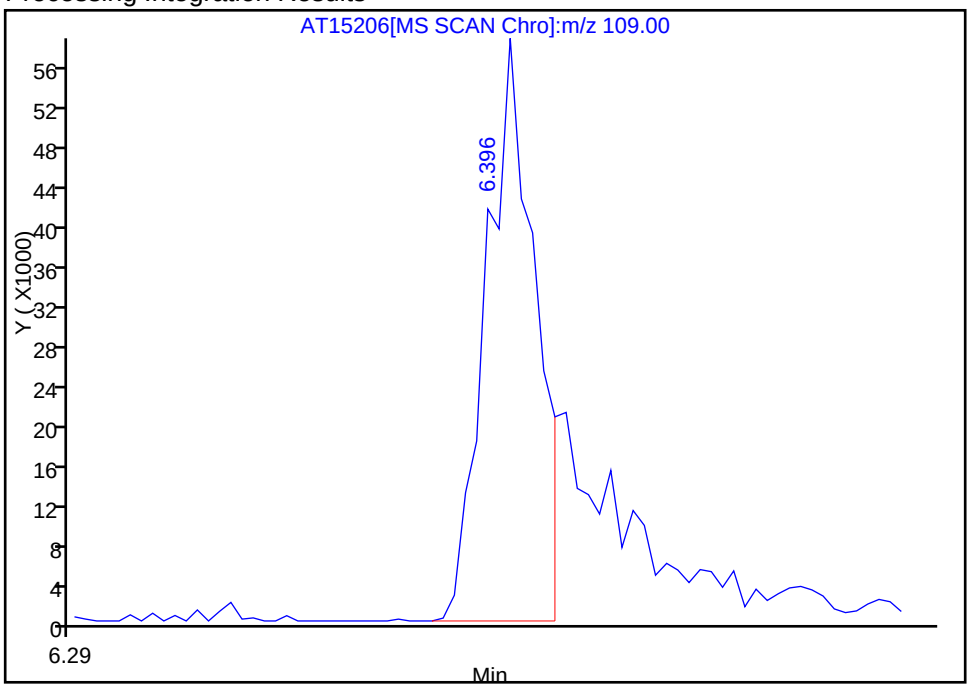
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15206.D		
Inj Date:	27-May-2010 12:12:30	Limit Group:	8270C Standard
Lims Batch ID:	64507	Lims Sample ID:	3
Client ID:		Instrument:	TAC002
Sample Info:	ccvis		
Sample Amount:	1.00 ul	Operator:	ap

68 4-Nitrophenol, Number: 1, m/z: 109 Type: quant, RT: 6.40

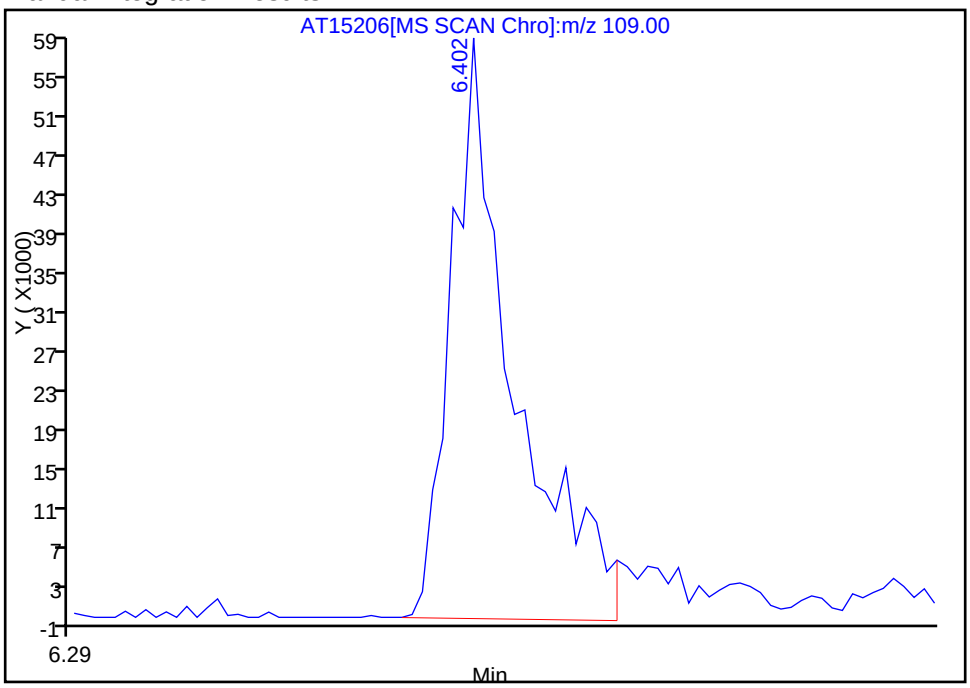
Processing Integration Results

RT: 6.40
Response: 48974
Amount: 2957.4653



Manual Integration Results

RT: 6.40
Response: 69642
Amount: 4118.8450



Reviewer: phama, 27-May-2010 12:34:05
Audit Action: Manually Integrated
Audit Reason: Other

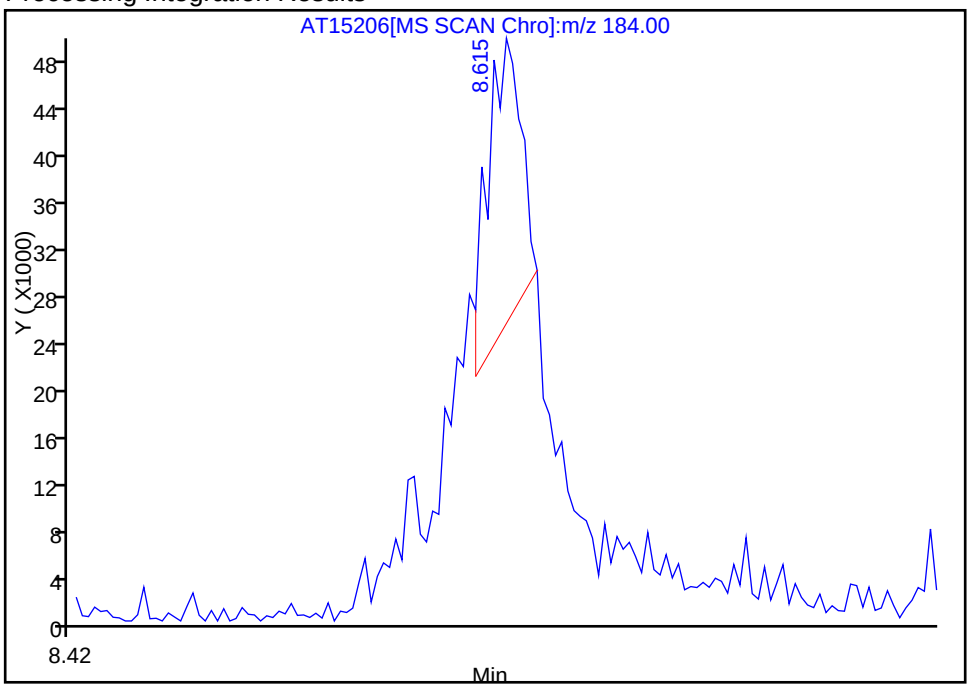
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15206.D		
Inj Date:	27-May-2010 12:12:30	Limit Group:	8270C Standard
Lims Batch ID:	64507	Lims Sample ID:	3
Client ID:		Instrument:	TAC002
Sample Info:	ccvis		
Sample Amount:	1.00 ul	Operator:	ap

94 Benzidine, Number: 1, m/z: 184 Type: quant, RT: 8.62

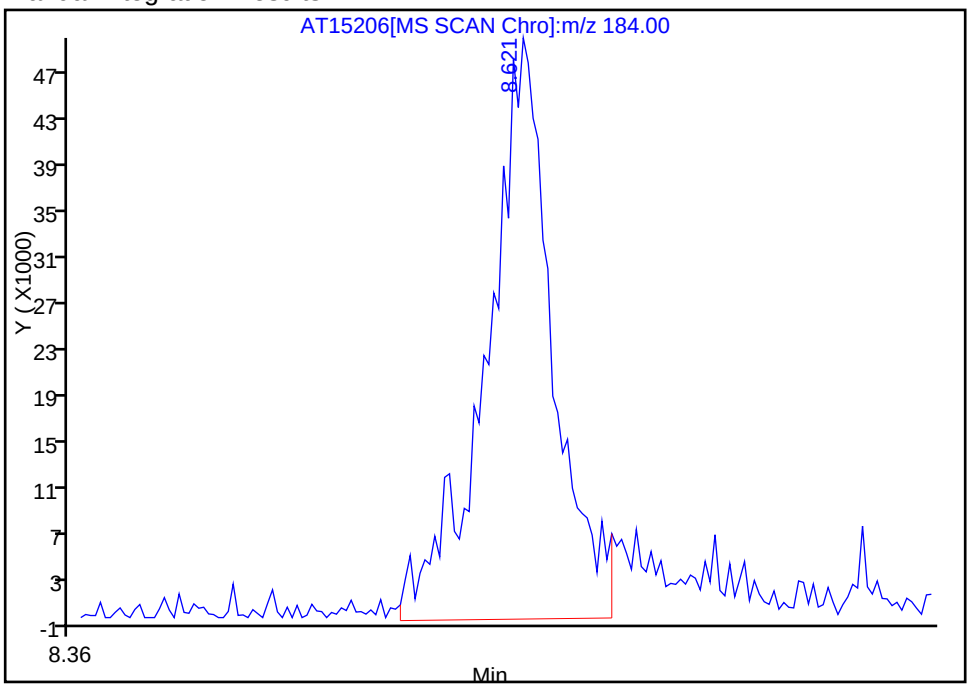
Processing Integration Results

RT: 8.62
Response: 26025
Amount: 312.9691



Manual Integration Results

RT: 8.62
Response: 131894
Amount: 3128.3870



Reviewer: phama, 27-May-2010 12:34:05
Audit Action: Manually Integrated
Audit Reason: Baseline

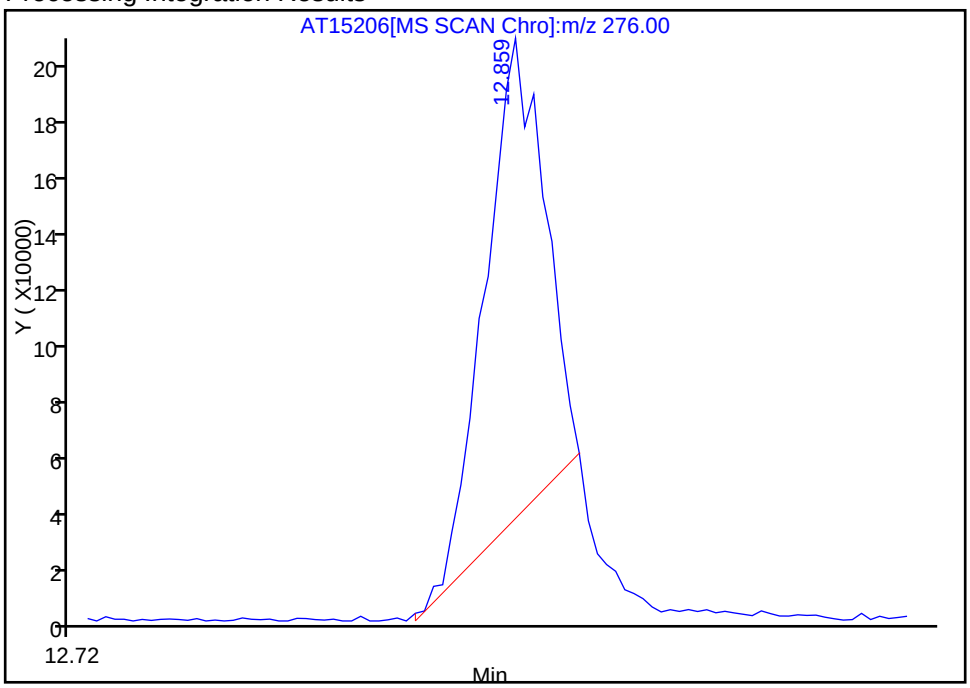
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15206.D		
Inj Date:	27-May-2010 12:12:30	Limit Group:	8270C Standard
Lims Batch ID:	64507	Lims Sample ID:	3
Client ID:		Instrument:	TAC002
Sample Info:	ccvis		
Sample Amount:	1.00 ul	Operator:	ap

109 Benzo[g,h,i]perylene, Number: 1, m/z: 276 Type: quant, RT: 12.86

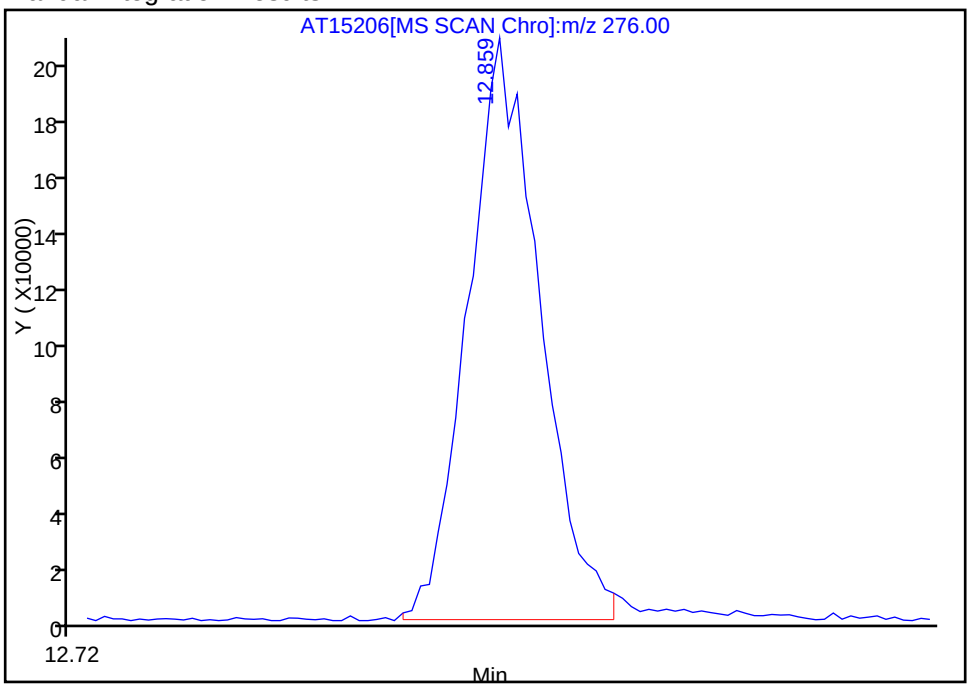
Processing Integration Results

RT: 12.86
Response: 217605
Amount: 554.7846



Manual Integration Results

RT: 12.86
Response: 331611
Amount: 845.4432



Reviewer: phama, 27-May-2010 12:34:05
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15081.D		
Lims ID:	dftpp	Client ID:	
Inject. Date:	11-May-2010 13:55:30	Dil. Factor:	1.0000
Sample Type:	DFTPP		
Sample ID:	DFTPP		
Misc. Info.:	580-0008740-003		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	2
Lims Batch ID:	63269	Lims Sample ID:	3
Detector:	MS SCAN		

Method:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\8270C TAC002.m		
Last Update:	19-May-2010 09:59:21	Calib Date:	27-Apr-2010 17:43:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100427-8490.b\AT14913.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		

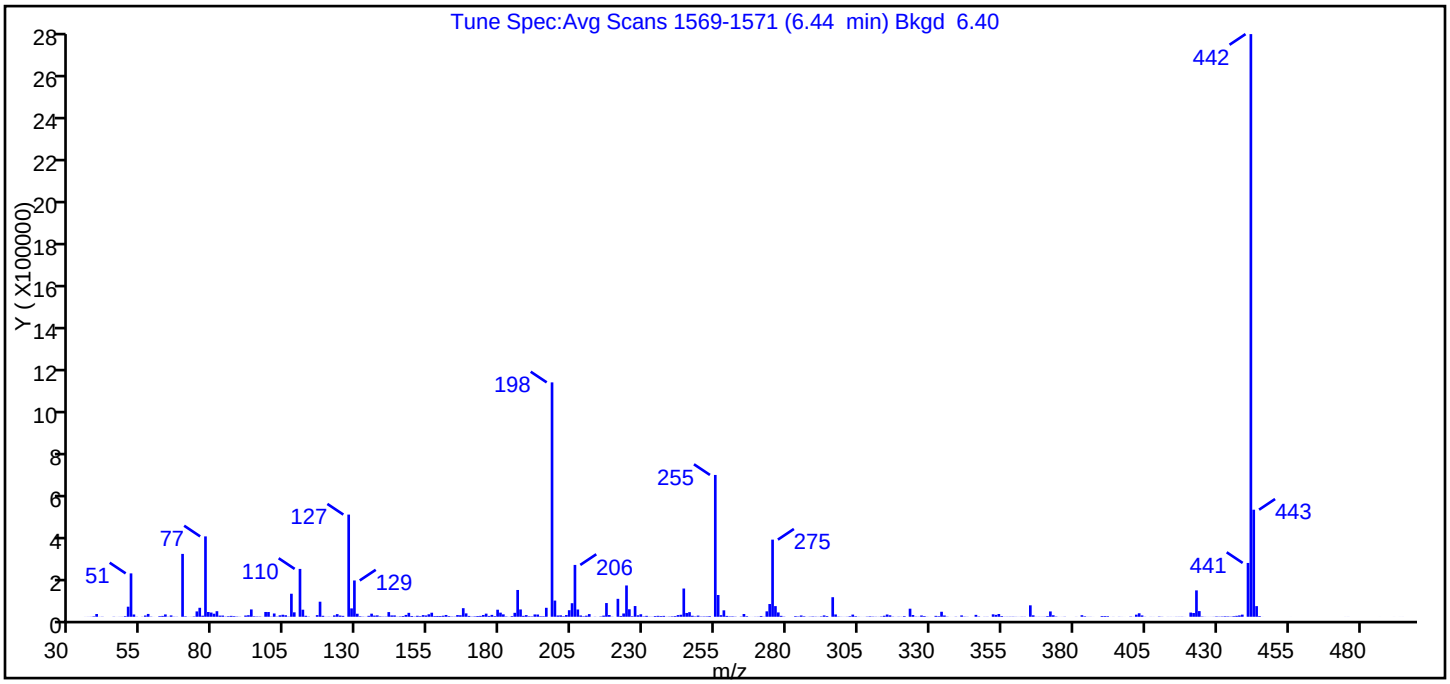
Reviewed By:	phama	Date:	19-May-2010 09:59:21

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
61 Pentachlorophenol_T	266	5.964	5.964	0.000	1071183	0	
74 DFTPP							
85 Benzidine_T	184	7.474	7.474	0.000	1785333	0	
88 4,4'-DDE	246	7.664	7.679	-0.015	7669	0	
91 4,4'-DDD	235	8.028	8.036	-0.008	43608	0	
92 4,4'-DDT	235	8.294	8.295	-0.001	2749889	0	

MS Tune Report

Data File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15081.D		
Inj Date:	11-May-2010 13:55:30	Limit Group:	8270C Standard
Lims Batch ID:	63269	Lims Sample ID:	3
Client ID:		Instrument:	TAC002
Sample Info:	DFTPP		
Sample Amount:	1.00 ul	Operator:	ap

74 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	18.51
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	26.82
70	Less than 2.00% of mass 69	0.20 (0.75)
127	10.00 - 80.00% of mass 198	43.59
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.91
275	10.00 - 60.00% of mass 198	32.91
365	Greater than 1.00% of mass 198	4.88
441	0.01 - 100.00% of mass 443	22.96 (50.26)
442	Greater than 50.00% of mass 198	248.59
443	15.00 - 24.00% of mass 442	45.68 (18.38)

Data File: \\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15081.D\8270C TAC002.rslt\spectra.d
Injection Date: 11-May-2010 13:55:30
Spectrum: Tune Spec:Avg Scans 1569-1571 (6.44 min) Bkgd 6.40
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 385

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	220	142.00	6369	241.00	3381	346.00	9122
36.00	360	143.00	6494	242.00	8009	347.00	1649
37.00	562	144.00	874	243.00	9650	349.00	570
38.00	2184	145.00	1881	244.00	135360	350.00	643
39.00	13201	146.00	3519	245.00	18232	352.00	11740
40.00	427	147.00	8860	246.00	22112	353.00	9245
41.00	798	148.00	18832	247.00	4887	354.00	13219
45.00	794	149.00	3753	248.00	1882	355.00	3301
46.00	161	150.00	1218	249.00	5608	356.00	609
47.00	432	151.00	4771	250.00	1318	357.00	757
48.00	554	152.00	2743	251.00	1644	358.00	819
49.00	3021	153.00	7890	252.00	1820	359.00	948
50.00	48272	154.00	6184	253.00	2991	360.00	565
51.00	207936	155.00	11985	255.00	679680	361.00	294
52.00	10936	156.00	19424	256.00	104296	362.00	808
53.00	688	157.00	3227	257.00	7612	363.00	746
55.00	561	158.00	3803	258.00	30832	365.00	54856
56.00	5966	159.00	3526	259.00	4095	366.00	6956
57.00	13572	160.00	5083	260.00	1740	367.00	520
58.00	1072	161.00	8617	261.00	2021	368.00	592
59.00	146	162.00	3124	262.00	1042	369.00	488
61.00	2953	163.00	1295	264.00	1266	370.00	726
62.00	4177	164.00	1086	265.00	13252	371.00	3149
63.00	11253	165.00	8095	266.00	2838	372.00	25584
64.00	822	166.00	7269	267.00	210	373.00	7236
65.00	6476	167.00	41152	268.00	233	374.00	1351
66.00	849	168.00	16292	269.00	705	375.00	166
67.00	646	169.00	3965	270.00	794	376.00	241
69.00	301312	170.00	1064	271.00	3807	377.00	736
70.00	2246	171.00	1996	272.00	730	381.00	388
71.00	304	172.00	3600	273.00	26056	383.00	7520
72.00	388	173.00	4252	274.00	61024	384.00	2434
73.00	1771	174.00	8500	275.00	369664	385.00	446

Report Date: 19-May-2010 09:59:21 Chrom Revision: 1.1 20-Apr-2010 06:13:18
Data File: \\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15081.D\8270C TAC002.rslt\spectra.d
Injection Date: 11-May-2010 13:55:30
Spectrum: Tune Spec:Avg Scans 1569-1571 (6.44 min) Bkgd 6.40
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 385

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	25696	175.00	15020	276.00	51048	386.00	481
75.00	43080	176.00	3988	277.00	20800	387.00	152
76.00	5081	177.00	9026	278.00	4459	389.00	20
77.00	385216	178.00	3132	279.00	1087	390.00	3606
78.00	22800	179.00	33768	282.00	97	391.00	3445
79.00	20216	180.00	19768	283.00	3161	392.00	2992
80.00	14591	181.00	11562	284.00	1769	393.00	114
81.00	26696	182.00	1636	285.00	6200	394.00	359
82.00	5525	183.00	433	286.00	2390	396.00	547
83.00	5756	184.00	3291	287.00	306	397.00	245
84.00	1121	185.00	18864	288.00	943	398.00	97
85.00	2857	186.00	128416	289.00	1698	400.00	1303
86.00	4370	187.00	35048	290.00	1101	401.00	369
87.00	3011	188.00	4430	291.00	575	402.00	10092
88.00	1381	189.00	7863	292.00	1958	403.00	16800
89.00	571	190.00	2313	293.00	6526	404.00	6439
91.00	5903	191.00	1883	294.00	3468	405.00	608
92.00	7478	192.00	11196	296.00	93736	407.00	389
93.00	35200	193.00	10785	297.00	11164	408.00	258
94.00	2360	194.00	2547	298.00	1224	409.00	54
95.00	1591	195.00	2510	299.00	566	410.00	1431
96.00	1285	196.00	43032	300.00	339	411.00	648
97.00	245	198.00	1123328	301.00	709	413.00	359
98.00	22960	199.00	77584	302.00	2721	414.00	341
99.00	22752	200.00	6172	303.00	10438	415.00	204
100.00	1071	201.00	6953	304.00	2678	416.00	593
101.00	15718	202.00	2655	305.00	646	417.00	629
102.00	1158	203.00	8144	306.00	253	418.00	730
103.00	6972	204.00	31416	307.00	210	419.00	238
104.00	9663	205.00	65000	308.00	1200	421.00	20016
105.00	7198	206.00	248448	309.00	2194	422.00	18040
106.00	1213	207.00	34864	310.00	1287	423.00	126440
107.00	110384	208.00	6246	311.00	842	424.00	27152
108.00	21264	209.00	2301	312.00	469	425.00	1583

Report Date: 19-May-2010 09:59:21 Chrom Revision: 1.1 20-Apr-2010 06:13:18
Data File: \\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15081.D\8270C TAC002.rslt\spectra.d
Injection Date: 11-May-2010 13:55:30
Spectrum: Tune Spec:Avg Scans 1569-1571 (6.44 min) Bkgd 6.40
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 385

m/z	Y	m/z	Y	m/z	Y	m/z	Y
110.00	229312	210.00	5204	313.00	1638	426.00	528
111.00	33856	211.00	12807	314.00	4876	427.00	268
112.00	4725	212.00	150	315.00	10872	428.00	283
113.00	1109	213.00	723	316.00	7027	429.00	551
115.00	160	214.00	139	317.00	1082	430.00	1905
116.00	7734	215.00	1726	318.00	257	431.00	1170
117.00	72200	216.00	5535	319.00	914	432.00	1597
118.00	4633	217.00	65760	320.00	499	433.00	2482
119.00	505	218.00	8341	321.00	3024	434.00	2011
120.00	818	219.00	787	323.00	38728	435.00	1144
121.00	418	221.00	85968	324.00	8181	436.00	2896
122.00	6541	222.00	3940	325.00	1106	437.00	4498
123.00	12634	223.00	15752	326.00	699	438.00	6417
124.00	5757	224.00	150080	327.00	6207	439.00	10200
125.00	4373	225.00	35904	328.00	3261	441.00	257920
127.00	489664	226.00	2724	329.00	540	442.00	2792448
128.00	40168	227.00	51408	330.00	144	443.00	513152
129.00	173952	228.00	7021	332.00	4337	444.00	50976
130.00	14526	229.00	12052	333.00	2783	445.00	3231
131.00	2370	230.00	1823	334.00	24016	446.00	184
132.00	1010	231.00	4410	335.00	6108	456.00	57
133.00	386	232.00	822	336.00	992	475.00	159
134.00	4488	233.00	635	337.00	143	476.00	181
135.00	14895	234.00	3627	338.00	80	487.00	67
136.00	5630	235.00	4477	339.00	918	492.00	110
137.00	6659	236.00	3470	340.00	99	494.00	89
138.00	2004	237.00	4224	341.00	6548	495.00	150
139.00	1153	238.00	636	342.00	1141		
140.00	1179	239.00	1280	343.00	605		
141.00	22464	240.00	2166	345.00	123		

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15205.D		
Lims ID:	dftpp	Client ID:	
Inject. Date:	27-May-2010 11:47:30	Dil. Factor:	1.0000
Sample Type:	DFTPP		
Sample ID:	dftpp		
Misc. Info.:	580-0009155-002		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	2
Lims Batch ID:	64507	Lims Sample ID:	2
Detector:	MS SCAN		

Method:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\8270C TAC002.m		
Last Update:	27-May-2010 11:59:40	Calib Date:	11-May-2010 17:59:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15090.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		

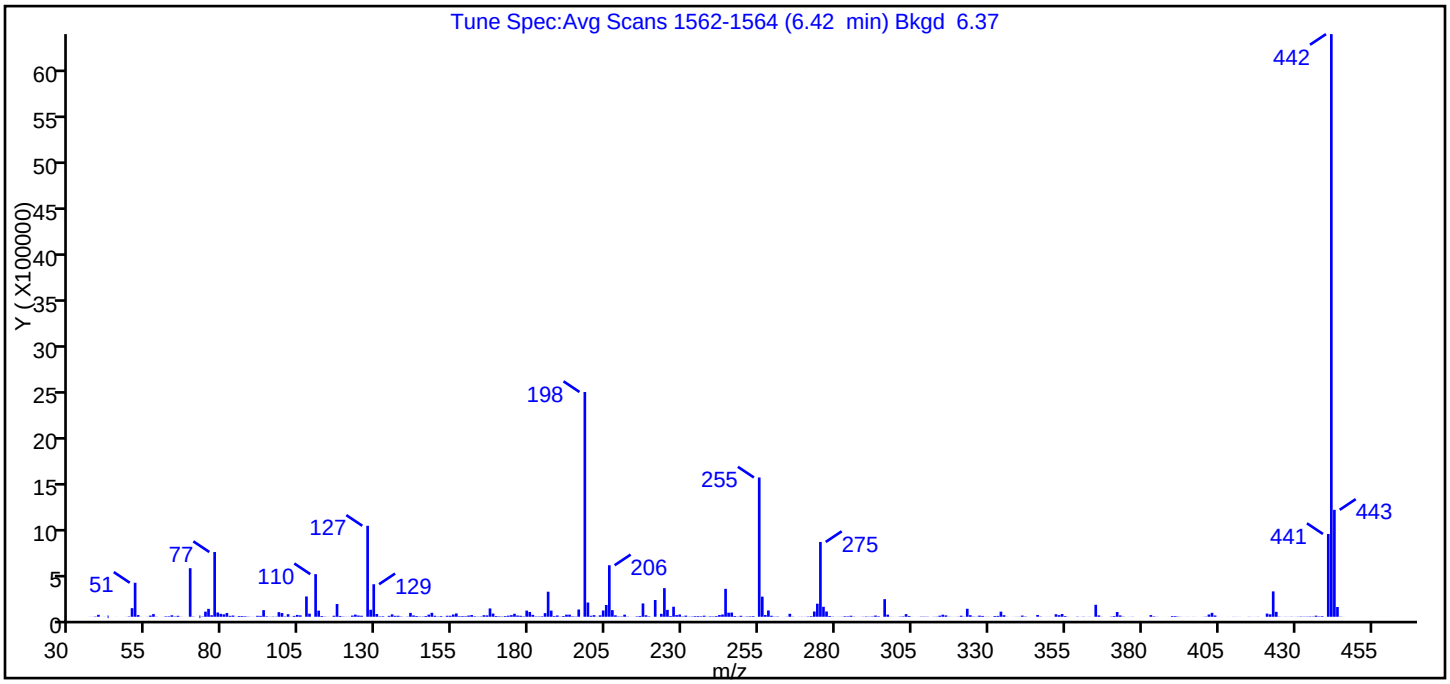
Reviewed By:	phama	Date:	27-May-2010 11:59:40

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
61 Pentachlorophenol_T	266	5.950	5.950	0.000	2877922	0	
74 DFTPP							
85 Benzidine_T	184	7.460	7.460	0.000	2263977	0	
88 4,4'-DDE	246	7.642	7.642	0.000	22680	0	
91 4,4'-DDD	235	7.974	7.974	0.000	437809	0	
92 4,4'-DDT	235	8.275	8.275	0.000	6475645	0	

MS Tune Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15205.D		
Inj Date:	27-May-2010 11:47:30	Limit Group:	8270C Standard
Lims Batch ID:	64507	Lims Sample ID:	2
Client ID:		Instrument:	TAC002
Sample Info:	dftpp		
Sample Amount:	1.00 ul	Operator:	ap

74 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	15.13
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	21.61
70	Less than 2.00% of mass 69	0.11 (0.50)
127	10.00 - 80.00% of mass 198	40.48
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.33
275	10.00 - 60.00% of mass 198	33.29
365	Greater than 1.00% of mass 198	5.33
441	0.01 - 100.00% of mass 443	36.83 (77.40)
442	Greater than 50.00% of mass 198	259.22
443	15.00 - 24.00% of mass 442	47.59 (18.36)

Data File: \\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15205.D\8270C TAC002.rslt\spectra.d
Injection Date: 27-May-2010 11:47:30
Spectrum: Tune Spec:Avg Scans 1562-1564 (6.42 min) Bkgd 6.37
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 389

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	613	141.00	42440	242.00	18776	342.00	3602
37.00	971	142.00	14450	243.00	24680	343.00	505
38.00	3519	143.00	8406	244.00	305920	344.00	190
39.00	21392	144.00	3338	245.00	44240	346.00	19528
40.00	134	145.00	2871	246.00	46160	347.00	2921
41.00	776	146.00	8537	247.00	8445	348.00	351
42.00	1	147.00	23640	248.00	2820	349.00	881
43.00	131	148.00	43632	249.00	10837	350.00	1070
45.00	612	149.00	10818	250.00	1159	352.00	27848
46.00	66	150.00	3346	251.00	4010	353.00	17664
48.00	604	151.00	7342	252.00	5315	354.00	30648
49.00	3918	152.00	987	253.00	7132	355.00	7758
50.00	94072	153.00	11260	255.00	1524736	356.00	1099
51.00	372416	154.00	11107	256.00	220224	357.00	221
52.00	18344	155.00	25040	257.00	18720	358.00	340
53.00	791	156.00	36616	258.00	69024	359.00	2717
55.00	1190	157.00	6156	259.00	10855	360.00	634
56.00	12874	158.00	7259	260.00	2240	361.00	2114
57.00	29224	159.00	5913	261.00	3584	362.00	476
58.00	1885	160.00	13274	262.00	295	363.00	1299
59.00	288	161.00	18824	263.00	396	365.00	131056
60.00	419	162.00	5612	264.00	1601	366.00	14780
61.00	5148	163.00	2323	265.00	32408	367.00	1345
62.00	5402	164.00	3396	266.00	2533	370.00	2832
63.00	16263	165.00	16824	267.00	276	371.00	7805
64.00	3751	166.00	15000	268.00	1132	372.00	52304
65.00	10772	167.00	91256	269.00	1466	373.00	14880
66.00	1236	168.00	35112	270.00	1128	374.00	2678
67.00	266	169.00	8294	271.00	3404	375.00	269
69.00	531776	170.00	4962	272.00	7031	376.00	811
70.00	2676	171.00	3446	273.00	57608	377.00	1745
71.00	295	172.00	8165	274.00	143104	379.00	67
72.00	4	173.00	12182	275.00	819072	380.00	148

Report Date: 27-May-2010 11:59:40 Chrom Revision: 1.1 20-Apr-2010 06:13:18
Data File: \\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15205.D\8270C TAC002.rslt\spectra.d
Injection Date: 27-May-2010 11:47:30
Spectrum: Tune Spec:Avg Scans 1562-1564 (6.42 min) Bkgd 6.37
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 389

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	3224	174.00	17512	276.00	109184	381.00	250
74.00	55856	175.00	32784	277.00	57576	383.00	18288
75.00	86416	176.00	13708	278.00	8315	384.00	4676
76.00	16600	177.00	10952	279.00	2584	385.00	1523
77.00	708864	178.00	4327	280.00	594	387.00	142
78.00	46752	179.00	67600	281.00	956	388.00	324
79.00	32256	180.00	52680	282.00	1496	389.00	513
80.00	26520	181.00	20960	283.00	6382	390.00	8055
81.00	40992	182.00	3839	284.00	5497	391.00	7507
82.00	10127	183.00	4108	285.00	11190	392.00	2599
83.00	13683	184.00	5432	286.00	2183	393.00	1090
84.00	1054	185.00	39736	287.00	450	394.00	444
85.00	8472	186.00	274176	288.00	985	395.00	1032
86.00	7842	187.00	67272	289.00	2003	396.00	361
87.00	5713	188.00	7498	290.00	3999	397.00	991
88.00	2425	189.00	14279	291.00	2436	398.00	211
89.00	1040	190.00	1749	292.00	3709	399.00	151
90.00	757	191.00	8387	293.00	13190	400.00	759
91.00	10488	192.00	23016	294.00	5561	401.00	2720
92.00	9744	193.00	23280	296.00	192640	402.00	24992
93.00	72784	194.00	5193	297.00	23320	403.00	42784
94.00	5299	195.00	3186	298.00	1019	404.00	14079
95.00	1641	196.00	79352	299.00	788	405.00	644
96.00	2795	198.00	2460672	300.00	571	406.00	64
97.00	2174	199.00	155776	301.00	2896	408.00	404
98.00	50632	200.00	11260	302.00	4829	409.00	78
99.00	40568	201.00	17480	303.00	28616	410.00	1026
100.00	3679	202.00	1386	304.00	8886	411.00	933
101.00	28000	203.00	15704	305.00	743	412.00	630
102.00	1313	204.00	68776	306.00	333	413.00	172
103.00	9613	205.00	129032	307.00	817	415.00	1655
104.00	20296	206.00	564032	308.00	2908	416.00	681
105.00	15583	207.00	72704	309.00	2711	417.00	658
107.00	222464	208.00	15899	310.00	2542	418.00	1421

Report Date: 27-May-2010 11:59:40 Chrom Revision: 1.1 20-Apr-2010 06:13:18
Data File: \\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15205.D\8270C TAC002.rslt\spectra.d
Injection Date: 27-May-2010 11:47:30
Spectrum: Tune Spec:Avg Scans 1562-1564 (6.42 min) Bkgd 6.37
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 389

m/z	Y	m/z	Y	m/z	Y	m/z	Y
108.00	33520	209.00	4069	311.00	114	421.00	34888
110.00	466624	210.00	3694	312.00	1525	422.00	26800
111.00	67080	211.00	23032	313.00	2155	423.00	277888
112.00	8605	212.00	2526	314.00	11896	424.00	53864
113.00	2513	213.00	704	315.00	22616	425.00	2184
114.00	867	214.00	513	316.00	15126	426.00	562
115.00	137	215.00	4691	317.00	1818	427.00	1335
116.00	11024	216.00	8851	318.00	766	428.00	1113
117.00	139968	217.00	145856	319.00	711	429.00	1821
118.00	9001	218.00	16416	320.00	1945	430.00	790
119.00	2486	219.00	4673	321.00	11496	431.00	1632
120.00	1432	221.00	183424	322.00	1580	432.00	3149
121.00	1122	223.00	32360	323.00	87776	433.00	2472
122.00	13108	224.00	313600	324.00	16768	434.00	2839
123.00	23672	225.00	75568	325.00	3077	435.00	3656
124.00	13487	226.00	8007	326.00	1695	436.00	3183
125.00	11372	227.00	109960	327.00	12710	437.00	12145
127.00	996032	228.00	18232	328.00	9366	438.00	4392
128.00	76456	229.00	24824	329.00	1519	439.00	6660
129.00	356288	230.00	3992	330.00	1392	441.00	906304
130.00	30264	231.00	12614	331.00	406	442.00	6378496
131.00	4714	232.00	2154	332.00	8458	443.00	1170944
132.00	5835	233.00	3346	333.00	9532	444.00	106992
133.00	140	234.00	7157	334.00	56136	445.00	2088
134.00	10039	235.00	7352	335.00	16952	446.00	604
135.00	26208	236.00	5508	336.00	1182	459.00	114
136.00	10533	237.00	11871	337.00	65	461.00	93
137.00	11067	238.00	1644	338.00	628	467.00	59
138.00	3306	239.00	5223	339.00	1244		
139.00	556	240.00	4396	340.00	1447		
140.00	2343	241.00	7841	341.00	12995		

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 580-64442/1-A
Matrix: Solid
Lab File ID: AT15210.D
Analysis Method: 8270C
Date Collected:
Extract. Method: 3550B
Date Extracted: 05/26/2010 15:16
Sample wt/vol: 10(g)
Date Analyzed: 05/27/2010 13:58
Con. Extract Vol.: 10(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 64507
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	ND		20	2.2
91-57-6	2-Methylnaphthalene	ND		20	2.3
90-12-0	1-Methylnaphthalene	ND		30	1.8
208-96-8	Acenaphthylene	ND		20	1.6
83-32-9	Acenaphthene	ND		20	1.6
86-73-7	Fluorene	ND		20	1.2
85-01-8	Phenanthrene	ND		20	2.1
120-12-7	Anthracene	ND		20	1.4
206-44-0	Fluoranthene	ND		20	1.2
129-00-0	Pyrene	ND		20	1.4
56-55-3	Benzo[a]anthracene	ND		25	1.7
218-01-9	Chrysene	ND		25	1.4
205-99-2	Benzo[b]fluoranthene	ND		20	4.1
207-08-9	Benzo[k]fluoranthene	ND		25	1.3
50-32-8	Benzo[a]pyrene	ND		30	2.1
193-39-5	Indeno[1,2,3-cd]pyrene	ND		40	4.2
53-70-3	Dibenz(a,h)anthracene	ND		40	2.2
191-24-2	Benzo[g,h,i]perylene	ND		25	1.5

CAS NO.	SURROGATE	%REC	LIMITS	Q
4165-60-0	Nitrobenzene-d5	84	38-141	
321-60-8	2-Fluorobiphenyl	99	42-140	
1718-51-0	Terphenyl-d14	83	42-151	

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15210.D		
Lims ID:	MB 580-64442/1-A	Client ID:	
Inject. Date:	27-May-2010 13:58:30	Dil. Factor:	1.0000
Sample Type:	MB, Method Blank		
Sample ID:	MB 580-64442/1-A		
Misc. Info.:	580-0009155-007		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	7
Lims Batch ID:	64507	Lims Sample ID:	7
Detector:	MS SCAN		

Method:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\8270C TAC002.m		
Last Update:	27-May-2010 14:48:59	Calib Date:	11-May-2010 17:59:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15090.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		

Reviewed By:	phama	Date:	27-May-2010 14:48:59

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.878	3.881	-0.003	75520	994.5	
* 2 Naphthalene-d8	136	4.860	4.863	-0.003	322145	997.0	
* 3 Acenaphthene-d10	164	6.285	6.288	-0.003	172940	968.0	
* 4 Phenanthrene-d10	188	7.508	7.508	0.000	320777	984.5	
* 5 Chrysene-d12	240	9.728	9.731	-0.003	347523	974.0	
* 6 Perylene-d12	264	11.215	11.221	-0.006	315422	983.0	
$ 7 2-Fluorophenol	112	2.964	2.973	-0.009	175433	1831.4	
$ 8 Phenol-d5	99	3.594	3.597	-0.003	208125	1676.2	
$ 9 Nitrobenzene-d5	82	4.296	4.296	0.000	83481	842.2	
$ 10 2-Fluorobiphenyl	172	5.726	5.729	-0.003	243715	988.7	
$ 11 2,4,6-Tribromophenol	329	6.932	6.935	-0.003	89596	1618.4	
$ 12 Terphenyl-d14	244	8.814	8.817	-0.003	293048	834.4	
74 DFTPP							
85 Benzidine_T	184	7.508	7.460	0.048	38096	0	
91 4,4'-DDD	235	7.928	7.974	-0.046	141	0	
90 Di-n-butyl phthalate	149	7.968	7.977	-0.009	1934	4.82	
92 4,4'-DDT	235	8.459	8.275	0.184	441	0	
101 Bis(2-ethylhexyl) phthalate	149	9.714	9.717	-0.003	4357	17.7	

Report Date: 27-May-2010 14:48:59 Chrom Revision: 1.1 20-Apr-2010 06:13:18

Data File: \\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15210.D

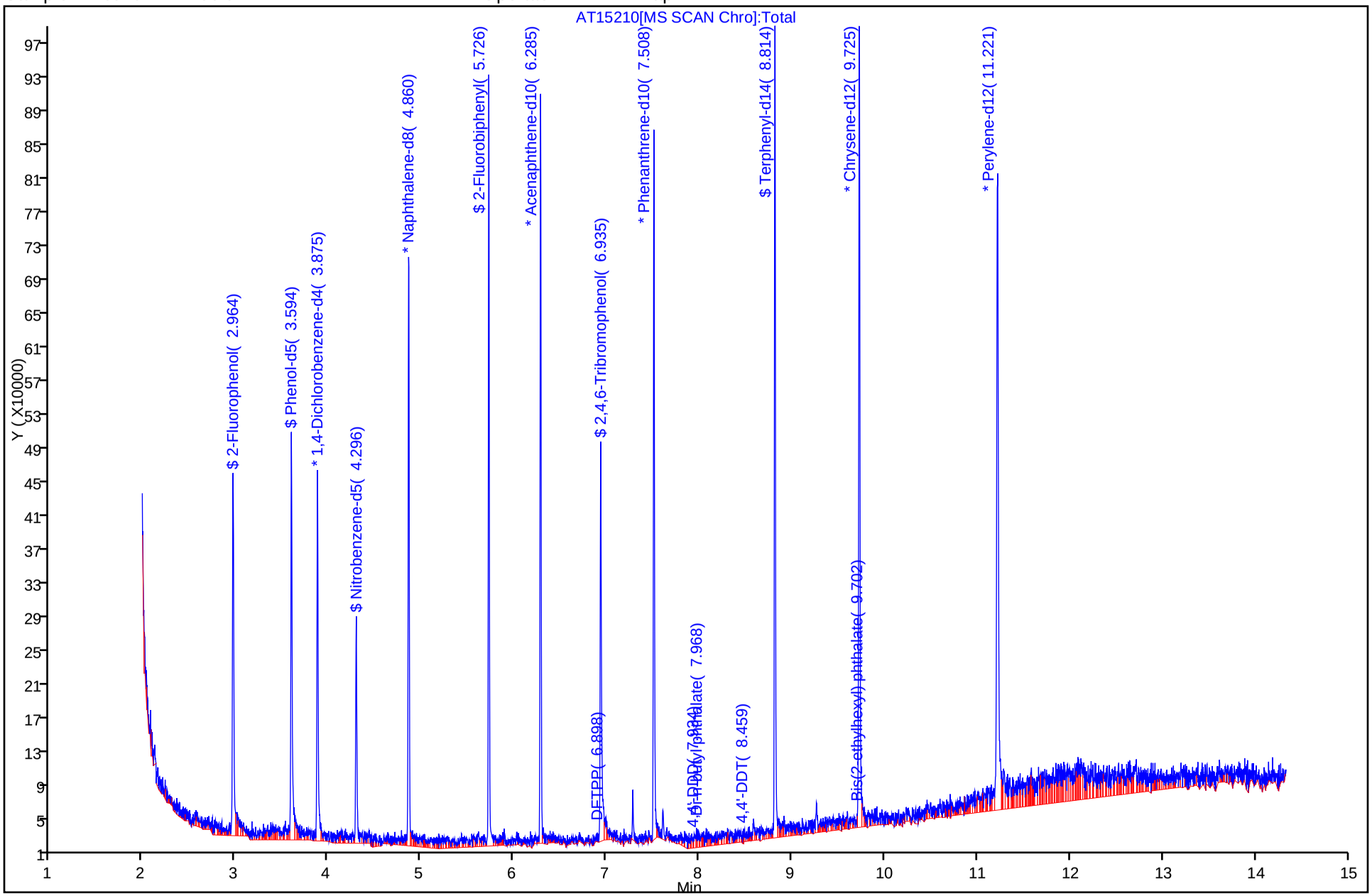
Inj Date: 27-May-2010 13:58:30 Limit Group: 8270C Standard

Lims Batch ID: 64507 Lims Sample ID: 7

Client ID: Instrument: TAC002

Sample Info: MB 580-64442/1-A

Sample Amount: 1.00 ul Operator: ap



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 580-64442/2-A
Matrix: Solid
Lab File ID: AT15211.D
Analysis Method: 8270C
Date Collected:
Extract. Method: 3550B
Date Extracted: 05/26/2010 15:16
Sample wt/vol: 10(g)
Date Analyzed: 05/27/2010 14:18
Con. Extract Vol.: 10(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 64507
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	1060		20	2.2
91-57-6	2-Methylnaphthalene	1230		20	2.3
90-12-0	1-Methylnaphthalene	1050		30	1.8
208-96-8	Acenaphthylene	1150		20	1.6
83-32-9	Acenaphthene	1050		20	1.6
86-73-7	Fluorene	1080		20	1.2
85-01-8	Phenanthrene	996		20	2.1
120-12-7	Anthracene	1070		20	1.4
206-44-0	Fluoranthene	1120		20	1.2
129-00-0	Pyrene	1050		20	1.4
56-55-3	Benzo[a]anthracene	1060		25	1.7
218-01-9	Chrysene	1010		25	1.4
205-99-2	Benzo[b]fluoranthene	1110		20	4.1
207-08-9	Benzo[k]fluoranthene	1120		25	1.3
50-32-8	Benzo[a]pyrene	1100		30	2.1
193-39-5	Indeno[1,2,3-cd]pyrene	1050		40	4.2
53-70-3	Dibenz(a,h)anthracene	1110		40	2.2
191-24-2	Benzo[g,h,i]perylene	1090		25	1.5

CAS NO.	SURROGATE	%REC	LIMITS	Q
4165-60-0	Nitrobenzene-d5	87	38-141	
321-60-8	2-Fluorobiphenyl	97	42-140	
1718-51-0	Terphenyl-d14	83	42-151	

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15211.D		
Lims ID:	LCS 580-64442/2-A	Client ID:	
Inject. Date:	27-May-2010 14:18:30	Dil. Factor:	1.0000
Sample Type:	LCS, Lab Control Sample		
Sample ID:	LCS 580-64442/2-A		
Misc. Info.:	580-0009155-008		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	8
Lims Batch ID:	64507	Lims Sample ID:	8
Detector:	MS SCAN		

Method:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\8270C TAC002.m		
Last Update:	27-May-2010 14:51:09	Calib Date:	11-May-2010 17:59:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15090.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		

Reviewed By: phama Date: 27-May-2010 14:51:09

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.878	3.881	-0.003	78945	994.5	
* 2 Naphthalene-d8	136	4.863	4.863	0.000	319297	997.0	
* 3 Acenaphthene-d10	164	6.285	6.288	-0.003	179921	968.0	
* 4 Phenanthrene-d10	188	7.508	7.508	0.000	324902	984.5	
* 5 Chrysene-d12	240	9.725	9.731	-0.006	355691	974.0	
* 6 Perylene-d12	264	11.218	11.221	-0.003	329621	983.0	
$ 7 2-Fluorophenol	112	2.967	2.973	-0.006	168104	1678.8	
$ 8 Phenol-d5	99	3.594	3.597	-0.003	223063	1718.6	
$ 9 Nitrobenzene-d5	82	4.296	4.296	0.000	86186	877.2	
$ 10 2-Fluorobiphenyl	172	5.726	5.729	-0.003	248688	969.7	
$ 11 2,4,6-Tribromophenol	329	6.932	6.935	-0.003	116712	2081.4	
$ 12 Terphenyl-d14	244	8.814	8.817	-0.003	299361	832.8	
22 Pyridine	52	2.221	2.232	-0.011	157789	3461.5	
23 N-Nitrosodimethylamine	42	2.238	2.238	0.000	84394	4226.2	
24 Cyclohexanone	55	3.172	3.172	0.000	43672	720.9	
25 Phenol	94	3.603	3.606	-0.003	111271	924.0	
26 Aniline	93	3.646	3.646	0.000	54210	426.9	
27 Bis(2-chloroethyl)ether	93	3.674	3.677	-0.003	112368	959.4	
28 2-Chlorophenol	128	3.731	3.734	-0.003	118498	1098.5	
29 n-Decane	57	3.736	3.756	-0.020	69589	785.5	
30 1,3-Dichlorobenzene	146	3.839	3.841	-0.002	134791	1121.4	
31 1,4-Dichlorobenzene	146	3.890	3.895	-0.005	132927	1040.2	
32 Benzyl alcohol	108	3.975	3.975	0.000	54924	794.4	
33 1,2-Dichlorobenzene	146	4.006	4.009	-0.003	126562	1038.3	
34 2-Methylphenol	108	4.051	4.051	0.000	108656	1090.9	
35 2,2'-oxybis[1-chloropropane]	45	4.071	4.071	0.000	81505	833.4	
36 3 & 4 Methylphenol	108	4.171	4.168	0.003	107261	1075.7	
38 N-Nitrosodi-n-propylamine	70	4.173	4.171	0.002	57839	896.3	
37 Acetophenone	105	4.179	4.179	0.000	132017	970.7	
39 Hexachloroethane	117	4.261	4.264	-0.003	43404	969.9	
40 Nitrobenzene	77	4.310	4.310	0.000	94260	1012.7	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
41 Isophorone	82	4.491	4.494	-0.003	186265	1023.9	
42 2-Nitrophenol	139	4.557	4.557	0.000	63404	975.5	
43 2,4-Dimethylphenol	107	4.579	4.579	0.000	91861	1093.5	
44 Benzoic acid	105	4.636	4.645	-0.009	133939	4642.3	
45 Bis(2-chloroethoxy)methane	93	4.650	4.653	-0.003	120799	1082.3	
46 2,4-Dichlorophenol	162	4.750	4.750	0.000	93814	1082.9	
47 1,2,4-Trichlorobenzene	180	4.809	4.812	-0.003	113020	1083.5	
48 Naphthalene	128	4.880	4.880	0.000	358183	1062.0	
49 4-Chloroaniline	127	4.917	4.920	-0.003	32217	277.3	
50 Hexachlorobutadiene	225	4.974	4.974	0.000	67997	1183.6	
51 4-Chloro-3-methylphenol	107	5.306	5.309	-0.003	73038	1016.6	
52 2-Methylnaphthalene	142	5.434	5.437	-0.003	256847	1228.5	
53 1-Methylnaphthalene	142	5.513	5.516	-0.003	235326	1053.8	
54 Hexachlorocyclopentadiene	237	5.561	5.561	0.000	64410	988.0	
56 2,3-Dichlorobenzenamine	161	5.661	5.661	0.000	111456	1022.6	
55 2,4,6-Trichlorophenol	196	5.661	5.664	-0.003	66341	1136.7	
57 2,4,5-Trichlorophenol	196	5.700	5.703	-0.003	75072	1104.7	
58 1,1'-Biphenyl	154	5.808	5.811	-0.003	279345	1059.4	
59 2-Chloronaphthalene	162	5.828	5.831	-0.003	228433	1085.2	
60 2-Nitroaniline	65	5.910	5.911	-0.001	34010	1000.6	
62 Dimethyl phthalate	163	6.052	6.052	0.000	252696	1206.0	
63 2,6-Dinitrotoluene	165	6.103	6.104	-0.001	62932	1123.9	
64 Acenaphthylene	152	6.172	6.175	-0.002	367560	1154.7	
65 3-Nitroaniline	138	6.248	6.251	-0.003	24176	575.5	
66 Acenaphthene	153	6.311	6.314	-0.003	227047	1054.9	
67 2,4-Dinitrophenol	184	6.328	6.331	-0.003	119575	5904.7	
68 4-Nitrophenol	109	6.396	6.402	-0.006	66171	4261.1	
69 2,4-Dinitrotoluene	165	6.433	6.433	0.000	74628	1116.8	
70 Dibenzofuran	168	6.453	6.455	-0.002	322952	1108.7	
71 2,3,5,6-Tetrachlorophenol	232	6.518	6.521	-0.003	55413	943.5	
72 2,3,4,6-Tetrachlorophenol	232	6.555	6.558	-0.003	69910	1257.3	
73 Diethyl phthalate	149	6.629	6.631	-0.002	230931	1115.1	
76 4-Chlorophenyl phenyl ether	204	6.731	6.734	-0.003	123946	1149.0	
75 Fluorene	166	6.736	6.736	0.000	256469	1076.5	
77 4-Nitroaniline	138	6.745	6.756	-0.011	26942	953.0	
78 4,6-Dinitro-2-methylphenol	198	6.768	6.771	-0.003	221937	6136.4	
79 N-Nitrosodiphenylamine	169	6.824	6.827	-0.003	215813	1091.7	
80 Azobenzene	77	6.861	6.861	0.000	176304	947.9	
81 4-Bromophenyl phenyl ether	248	7.134	7.137	-0.003	87967	1083.2	
82 Hexachlorobenzene	284	7.188	7.191	-0.003	114858	1104.7	
83 Pentachlorophenol	266	7.349	7.355	-0.006	43974	999.4	
84 n-Octadecane	43	7.401	7.401	0.000	42698	808.1	
86 Phenanthrene	178	7.528	7.531	-0.003	348810	995.7	
87 Anthracene	178	7.568	7.571	-0.003	365004	1074.9	
89 Carbazole	167	7.701	7.701	0.000	324736	1155.7	
90 Di-n-butyl phthalate	149	7.974	7.977	-0.003	455483	1120.3	
95 Fluoranthene	202	8.507	8.510	-0.003	410275	1119.5	
94 Benzidine	184	8.612	8.621	-0.009	15191	86.3	
93 Pyrene	202	8.698	8.698	0.000	442075	1054.5	
97 Butyl benzyl phthalate	149	9.209	9.211	-0.002	194519	1168.7	
98 3,3'-Dichlorobenzidine	252	9.685	9.691	-0.006	257970	2316.5	
101 Bis(2-ethylhexyl) phthalate	149	9.714	9.717	-0.003	284326	1125.8	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
99 Benzo[a]anthracene	228	9.717	9.719	-0.002	418765	1062.7	
100 Chrysene	228	9.751	9.754	-0.003	420143	1008.4	
102 Di-n-octyl phthalate	149	10.392	10.395	-0.003	458425	1279.2	
103 Benzo[b]fluoranthene	252	10.823	10.829	-0.006	447440	1113.9	
105 Benzofluoranthene	252	10.823	10.858	-0.035	918739	2209.5	M
104 Benzo[k]fluoranthene	252	10.852	10.858	-0.006	477380	1124.5	
106 Benzo[a]pyrene	252	11.158	11.161	-0.003	440174	1103.3	
107 Indeno[1,2,3-cd]pyrene	276	12.487	12.490	-0.003	494138	1054.3	
108 Dibenz(a,h)anthracene	278	12.509	12.515	-0.006	428370	1107.6	M
109 Benzo[g,h,i]perylene	276	12.859	12.859	-0.001	431461	1088.0	

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 27-May-2010 14:51:09 Chrom Revision: 1.1 20-Apr-2010 06:13:18

Data File: \\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15211.D

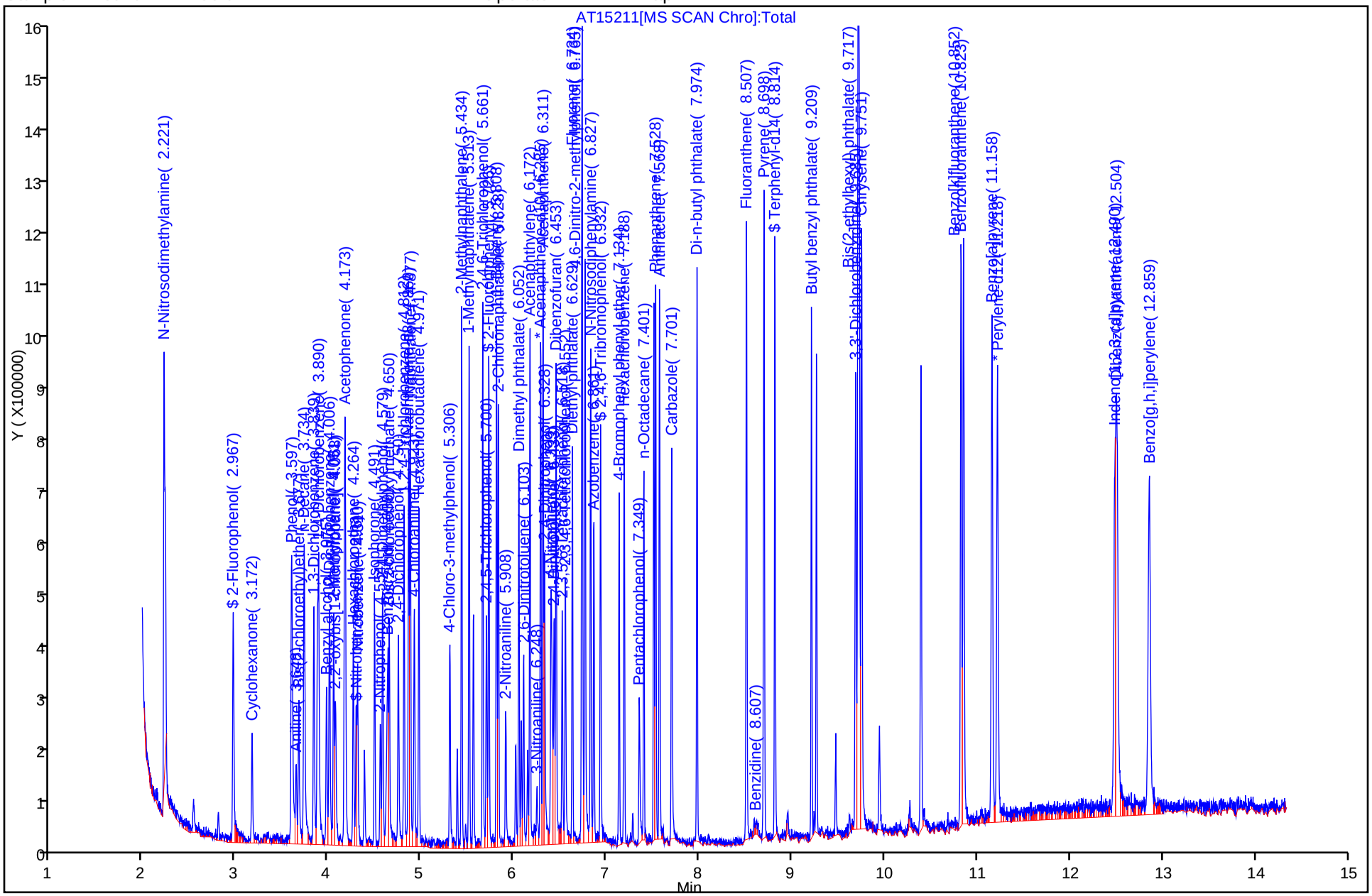
Inj Date: 27-May-2010 14:18:30 Limit Group: 8270C Standard

Lims Batch ID: 64507 Lims Sample ID: 8

Client ID: Instrument: TAC002

Sample Info: LCS 580-64442/2-A

Sample Amount: 1.00 ul Operator: ap



Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15211.D		
Inj Date:	27-May-2010 14:18:30	Limit Group:	8270C Standard
Lims Batch ID:	64507	Lims Sample ID:	8
Client ID:		Instrument:	TAC002
Sample Info:	LCS 580-64442/2-A		
Sample Amount:	1.00 ul	Operator:	ap

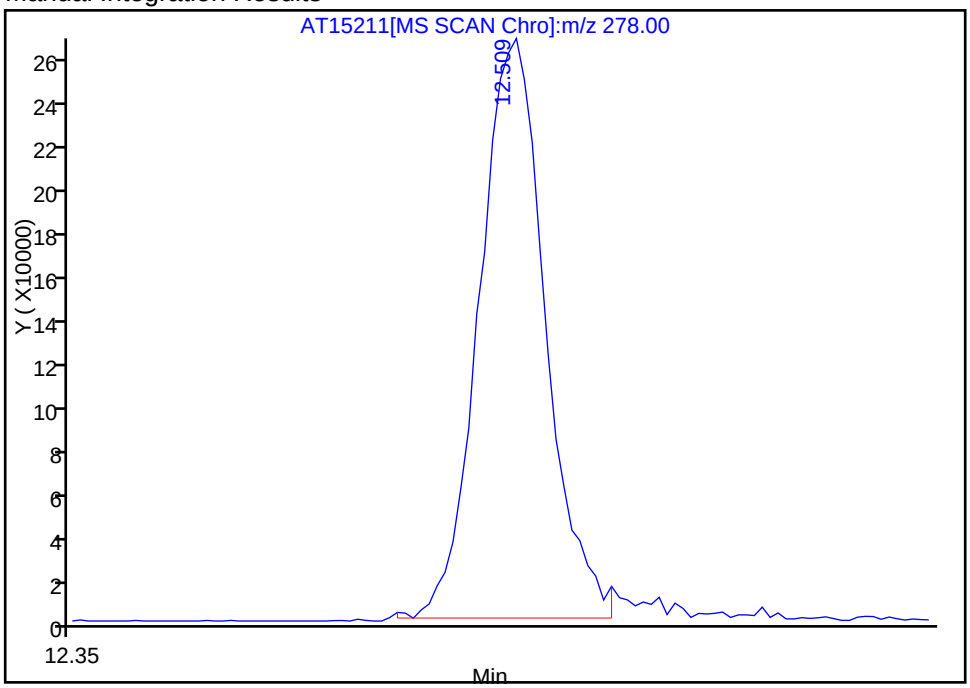
108 Dibenz(a,h)anthracene, Number: 1, m/z: 278 Type: quant, RT: 12.52

Processing Integration Results

Not Detected
Expected RT: 12.52

Manual Integration Results

RT: 12.51
Response: 428370
Amount: 1107.6257



Reviewer: phama, 27-May-2010 14:51:09
Audit Action: Manually Integrated
Audit Reason: Wrong peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma | Job No.: 580-19399-1

SDG No.:

Client Sample ID: 01HMST MS | Lab Sample ID: 580-19399-22 MS

Matrix: Solid | Lab File ID: AT15213.D

Analysis Method: 8270C | Date Collected: 05/05/2010 10:00

Extract. Method: 3550B | Date Extracted: 05/26/2010 15:16

Sample wt/vol: 10.4993(g) | Date Analyzed: 05/27/2010 14:59

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 64507 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	1280		26	2.8
91-57-6	2-Methylnaphthalene	1480		26	2.9
90-12-0	1-Methylnaphthalene	1250		38	2.3
208-96-8	Acenaphthylene	1320		26	2.0
83-32-9	Acenaphthene	1330		26	2.0
86-73-7	Fluorene	1330		26	1.5
85-01-8	Phenanthrene	1290		26	2.7
120-12-7	Anthracene	1400		26	1.8
206-44-0	Fluoranthene	1410		26	1.5
129-00-0	Pyrene	1350		26	1.8
56-55-3	Benzo[a]anthracene	1310		32	2.2
218-01-9	Chrysene	1230		32	1.8
205-99-2	Benzo[b]fluoranthene	1440		26	5.2
207-08-9	Benzo[k]fluoranthene	1460		32	1.7
50-32-8	Benzo[a]pyrene	1380		38	2.7
193-39-5	Indeno[1,2,3-cd]pyrene	1320		51	5.4
53-70-3	Dibenz(a,h)anthracene	1370		51	2.8
191-24-2	Benzo[g,h,i]perylene	1350		32	1.9

CAS NO.	SURROGATE	%REC	LIMITS	Q
4165-60-0	Nitrobenzene-d5	82	38-141	
321-60-8	2-Fluorobiphenyl	86	42-140	
1718-51-0	Terphenyl-d14	75	42-151	

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15213.D		
Lims ID:	580-19399-B-22-B MS	Client ID:	
Inject. Date:	27-May-2010 14:59:30	Dil. Factor:	1.0000
Sample Type:	MS, Matrix Spike		
Sample ID:	580-19399-B-22-B MS		
Misc. Info.:	580-0009155-010		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	10
Lims Batch ID:	64507	Lims Sample ID:	10
Detector:	MS SCAN		

Method:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\8270C TAC002.m		
Last Update:	27-May-2010 15:20:44	Calib Date:	11-May-2010 17:59:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15090.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		

Reviewed By: phama Date: 27-May-2010 15:20:44

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.878	3.881	-0.003	68981	994.5	
* 2 Naphthalene-d8	136	4.863	4.863	0.000	311738	997.0	
* 3 Acenaphthene-d10	164	6.285	6.288	-0.003	183415	968.0	
* 4 Phenanthrene-d10	188	7.508	7.508	0.000	321225	984.5	
* 5 Chrysene-d12	240	9.725	9.731	-0.006	348595	974.0	
* 6 Perylene-d12	264	11.218	11.221	-0.003	314318	983.0	
$ 7 2-Fluorophenol	112	2.967	2.973	-0.006	154067	1760.8	
$ 8 Phenol-d5	99	3.594	3.597	-0.003	185613	1636.6	
$ 9 Nitrobenzene-d5	82	4.293	4.296	-0.003	78847	822.0	
$ 10 2-Fluorobiphenyl	172	5.726	5.729	-0.003	226122	864.9	
$ 11 2,4,6-Tribromophenol	329	6.935	6.935	0.000	109911	1982.6	
$ 12 Terphenyl-d14	244	8.814	8.817	-0.003	266147	755.4	
22 Pyridine	52	2.221	2.232	-0.011	149765	3749.7	
23 N-Nitrosodimethylamine	42	2.235	2.238	-0.003	74775	4285.3	
24 Cyclohexanone	55	3.172	3.172	0.000	46316	875.0	
25 Phenol	94	3.603	3.606	-0.003	106524	1012.4	
26 Aniline	93	3.646	3.646	0.000	95357	859.3	
27 Bis(2-chloroethyl)ether	93	3.674	3.677	-0.003	112442	1096.9	
28 2-Chlorophenol	128	3.731	3.734	-0.003	98377	1043.7	
29 n-Decane	57	3.736	3.756	-0.020	72833	940.9	
30 1,3-Dichlorobenzene	146	3.836	3.841	-0.005	124935	1189.5	
31 1,4-Dichlorobenzene	146	3.890	3.895	-0.005	126445	1132.4	
32 Benzyl alcohol	108	3.975	3.975	0.000	61535	1016.3	
33 1,2-Dichlorobenzene	146	4.006	4.009	-0.003	121974	1145.2	
34 2-Methylphenol	108	4.049	4.051	-0.002	102390	1176.5	
35 2,2'-oxybis[1-chloropropane]	45	4.071	4.071	0.000	78578	919.5	
36 3 & 4 Methylphenol	108	4.168	4.168	0.000	97924	1123.9	
38 N-Nitrosodi-n-propylamine	70	4.171	4.171	0.000	58183	1031.9	
37 Acetophenone	105	4.179	4.179	0.000	127976	1076.9	
39 Hexachloroethane	117	4.261	4.264	-0.003	42538	1087.8	
40 Nitrobenzene	77	4.310	4.310	0.000	88047	968.9	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
41 Isophorone	82	4.491	4.494	-0.003	179754	1012.1	
42 2-Nitrophenol	139	4.557	4.557	0.000	57152	901.7	
43 2,4-Dimethylphenol	107	4.579	4.579	0.000	83001	1012.0	
44 Benzoic acid	105	4.619	4.645	-0.026	1101	397.6	M
45 Bis(2-chloroethoxy)methane	93	4.650	4.653	-0.003	114572	1051.4	
46 2,4-Dichlorophenol	162	4.747	4.750	-0.003	84314	996.8	
47 1,2,4-Trichlorobenzene	180	4.812	4.812	0.000	110395	1084.0	
48 Naphthalene	128	4.877	4.880	-0.003	330505	1003.7	
49 4-Chloroaniline	127	4.914	4.920	-0.006	92102	859.6	
50 Hexachlorobutadiene	225	4.971	4.974	-0.003	56885	1015.2	
51 4-Chloro-3-methylphenol	107	5.306	5.309	-0.003	67445	961.5	
52 2-Methylnaphthalene	142	5.434	5.437	-0.003	236084	1156.5	
53 1-Methylnaphthalene	142	5.513	5.516	-0.003	213281	978.3	
54 Hexachlorocyclopentadiene	237	5.561	5.561	0.000	57511	867.3	
56 2,3-Dichlorobenzenamine	161	5.661	5.661	0.000	107372	966.4	
55 2,4,6-Trichlorophenol	196	5.661	5.664	-0.003	65545	1101.7	
57 2,4,5-Trichlorophenol	196	5.700	5.703	-0.003	76692	1107.1	
58 1,1'-Biphenyl	154	5.811	5.811	0.000	279715	1040.6	
59 2-Chloronaphthalene	162	5.828	5.831	-0.003	228523	1065.0	
60 2-Nitroaniline	65	5.911	5.911	-0.001	31703	915.0	
62 Dimethyl phthalate	163	6.050	6.052	-0.002	250177	1171.3	
63 2,6-Dinitrotoluene	165	6.101	6.104	-0.003	55205	968.2	
64 Acenaphthylene	152	6.172	6.175	-0.002	335789	1034.8	
65 3-Nitroaniline	138	6.243	6.251	-0.008	38828	985.7	
66 Acenaphthene	153	6.314	6.314	0.000	228306	1040.5	
67 2,4-Dinitrophenol	184	6.328	6.331	-0.003	3406	414.2	
68 4-Nitrophenol	109	6.404	6.402	0.002	52491	3361.4	M
74 DFTPP							
69 2,4-Dinitrotoluene	165	6.430	6.433	-0.003	66595	979.6	
70 Dibenzofuran	168	6.453	6.455	-0.002	296285	997.8	
71 2,3,5,6-Tetrachlorophenol	232	6.521	6.521	0.000	39659	667.8	
72 2,3,4,6-Tetrachlorophenol	232	6.552	6.558	-0.006	57493	1014.3	
73 Diethyl phthalate	149	6.629	6.631	-0.002	233912	1108.0	
76 4-Chlorophenyl phenyl ether	204	6.731	6.734	-0.003	126774	1152.8	
75 Fluorene	166	6.736	6.736	0.000	253257	1042.8	
77 4-Nitroaniline	138	6.748	6.756	-0.008	37472	1362.8	
78 4,6-Dinitro-2-methylphenol	198	6.765	6.771	-0.006	102908	3083.5	
79 N-Nitrosodiphenylamine	169	6.827	6.827	0.000	206540	1056.7	
80 Azobenzene	77	6.858	6.861	-0.003	178152	968.8	
81 4-Bromophenyl phenyl ether	248	7.131	7.137	-0.006	82853	1033.7	
82 Hexachlorobenzene	284	7.188	7.191	-0.003	116331	1131.5	
83 Pentachlorophenol	266	7.352	7.355	-0.003	27735	665.5	
84 n-Octadecane	43	7.401	7.401	0.000	44917	859.8	
85 Benzidine_T	184	7.508	7.460	0.048	41671	0	
86 Phenanthrene	178	7.528	7.531	-0.003	350592	1012.3	
87 Anthracene	178	7.571	7.571	0.000	367162	1093.6	
89 Carbazole	167	7.701	7.701	0.000	336623	1230.0	
91 4,4'-DDD	235	7.855	7.974	-0.119	183	0	
90 Di-n-butyl phthalate	149	7.974	7.977	-0.003	444383	1105.5	
96 Atrazine	200	8.428	8.461	-0.033	185	0	
95 Fluoranthene	202	8.507	8.510	-0.003	399349	1102.2	
93 Pyrene	202	8.698	8.698	0.000	439162	1059.6	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
97 Butyl benzyl phthalate	149	9.211	9.211	0.000	199915	1225.5	
98 3,3'-Dichlorobenzidine	252	9.688	9.691	-0.003	220372	2019.2	
101 Bis(2-ethylhexyl) phthalate	149	9.714	9.717	-0.003	271975	1098.8	
99 Benzo[a]anthracene	228	9.717	9.719	-0.002	395207	1023.3	
100 Chrysene	228	9.751	9.754	-0.003	393064	962.6	
102 Di-n-octyl phthalate	149	10.392	10.395	-0.003	464000	1357.8	
197 Di-isodecyl phthalate	149	10.392	10.395	-0.003	449499	0	
103 Benzo[b]fluoranthene	252	10.824	10.829	-0.005	430396	1123.7	
105 Benzofluoranthene	252	10.855	10.858	-0.003	888988	2242.0	M
104 Benzo[k]fluoranthene	252	10.855	10.858	-0.003	463617	1145.3	
106 Benzo[a]pyrene	252	11.158	11.161	-0.003	409632	1076.7	
107 Indeno[1,2,3-cd]pyrene	276	12.487	12.490	-0.003	461586	1032.8	
108 Dibenz(a,h)anthracene	278	12.509	12.515	-0.006	396341	1074.7	
109 Benzo[g,h,i]perylene	276	12.859	12.859	0.000	399345	1056.0	

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 27-May-2010 15:20:44 Chrom Revision: 1.1 20-Apr-2010 06:13:18

Data File: \\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15213.D

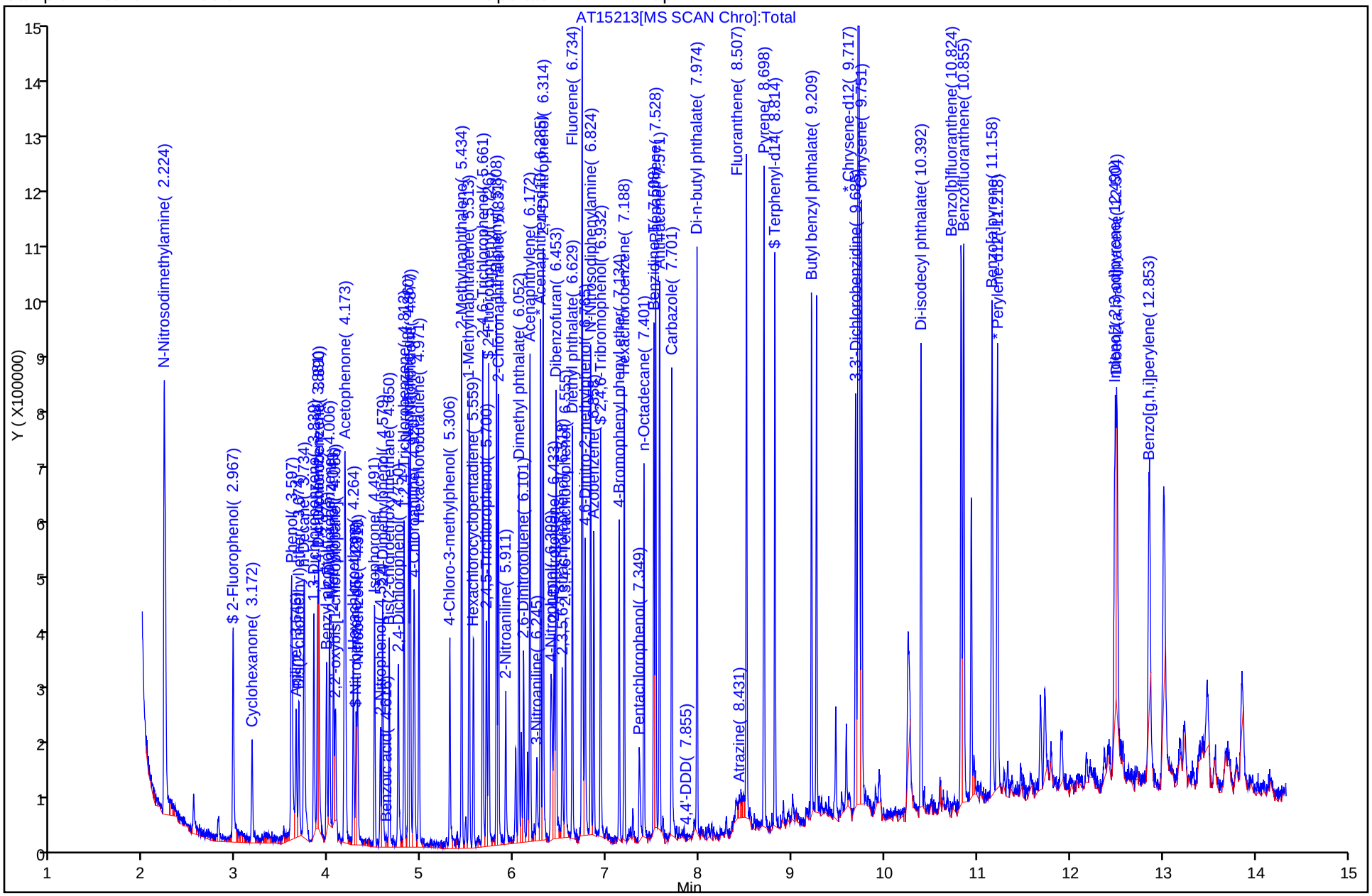
Inj Date: 27-May-2010 14:59:30 Limit Group: 8270C Standard

Lims Batch ID: 64507 Lims Sample ID: 10

Client ID: Instrument: TAC002

Sample Info: 580-19399-B-22-B MS

Sample Amount: 1.00 ul Operator: ap



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Tacoma | Job No.: 580-19399-1

SDG No.:

Client Sample ID: 01HMST MSD | Lab Sample ID: 580-19399-22 MSD

Matrix: Solid | Lab File ID: AT15214.D

Analysis Method: 8270C | Date Collected: 05/05/2010 10:00

Extract. Method: 3550B | Date Extracted: 05/26/2010 15:16

Sample wt/vol: 10.1214(g) | Date Analyzed: 05/27/2010 15:19

Con. Extract Vol.: 10(mL) | Dilution Factor: 1

Injection Volume: 1(uL) | Level: (low/med) Low

% Moisture: 25.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 64507 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
91-20-3	Naphthalene	1400		27	2.9
91-57-6	2-Methylnaphthalene	1540		27	3.0
90-12-0	1-Methylnaphthalene	1460		40	2.4
208-96-8	Acenaphthylene	1540		27	2.1
83-32-9	Acenaphthene	1410		27	2.1
86-73-7	Fluorene	1440		27	1.6
85-01-8	Phenanthrene	1310		27	2.8
120-12-7	Anthracene	1410		27	1.9
206-44-0	Fluoranthene	1500		27	1.6
129-00-0	Pyrene	1350		27	1.9
56-55-3	Benzo[a]anthracene	1320		33	2.3
218-01-9	Chrysene	1230		33	1.9
205-99-2	Benzo[b]fluoranthene	1400		27	5.4
207-08-9	Benzo[k]fluoranthene	1410		33	1.7
50-32-8	Benzo[a]pyrene	1360		40	2.8
193-39-5	Indeno[1,2,3-cd]pyrene	1310		53	5.6
53-70-3	Dibenz(a,h)anthracene	1280		53	2.9
191-24-2	Benzo[g,h,i]perylene	1280		33	2.0

CAS NO.	SURROGATE	%REC	LIMITS	Q
4165-60-0	Nitrobenzene-d5	88	38-141	
321-60-8	2-Fluorobiphenyl	87	42-140	
1718-51-0	Terphenyl-d14	74	42-151	

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15214.D		
Lims ID:	580-19399-B-22-C MSD	Client ID:	
Inject. Date:	27-May-2010 15:19:30	Dil. Factor:	1.0000
Sample Type:	MSD, Matrix Spike Duplicate		
Sample ID:	580-19399-B-22-C MSD		
Misc. Info.:	580-0009155-011		
Operator:	ap	Instrument ID:	TAC002
Vol. Injected:	1.0000	ALS Bottle#:	11
Lims Batch ID:	64507	Lims Sample ID:	11
Detector:	MS SCAN		

Method:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\8270C TAC002.m		
Last Update:	27-May-2010 16:37:33	Calib Date:	11-May-2010 17:59:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\tacsvr5\ChromData\TAC002\20100510-8740.b\AT15090.D		
Limit Group:	8270C Standard		
Integrator:	Falcon		
Process Host:	TAITAC0023		

Reviewed By: phama Date: 27-May-2010 16:37:33

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
* 1 1,4-Dichlorobenzene-d4	152	3.878	3.881	-0.003	62302	994.5	
* 2 Naphthalene-d8	136	4.860	4.863	-0.003	288252	997.0	
* 3 Acenaphthene-d10	164	6.285	6.288	-0.003	163703	968.0	
* 4 Phenanthrene-d10	188	7.508	7.508	0.000	295136	984.5	
* 5 Chrysene-d12	240	9.725	9.731	-0.006	328400	974.0	
* 6 Perylene-d12	264	11.215	11.221	-0.006	297735	983.0	
$ 7 2-Fluorophenol	112	2.973	2.973	0.000	161967	2049.5	
$ 8 Phenol-d5	99	3.594	3.597	-0.003	194747	1901.2	
$ 9 Nitrobenzene-d5	82	4.293	4.296	-0.003	78723	887.6	
$ 10 2-Fluorobiphenyl	172	5.726	5.729	-0.003	202869	869.4	
$ 11 2,4,6-Tribromophenol	329	6.932	6.935	-0.003	111062	2180.4	
$ 12 Terphenyl-d14	244	8.814	8.817	-0.003	245627	740.1	
22 Pyridine	52	2.232	2.232	0.000	157504	4346.4	
23 N-Nitrosodimethylamine	42	2.235	2.238	-0.003	70973	4503.2	
24 Cyclohexanone	55	3.172	3.172	0.000	45624	954.3	
25 Phenol	94	3.606	3.606	0.000	102985	1083.7	
26 Aniline	93	3.646	3.646	0.000	96766	965.5	
27 Bis(2-chloroethyl)ether	93	3.677	3.677	0.000	98093	1059.9	
28 2-Chlorophenol	128	3.731	3.734	-0.003	98543	1157.6	
29 n-Decane	57	3.739	3.756	-0.017	63339	906.0	
30 1,3-Dichlorobenzene	146	3.839	3.841	-0.002	116150	1224.4	
31 1,4-Dichlorobenzene	146	3.892	3.895	-0.003	123910	1228.7	
32 Benzyl alcohol	108	3.975	3.975	0.000	61034	1115.3	
33 1,2-Dichlorobenzene	146	4.009	4.009	0.000	116297	1209.0	
34 2-Methylphenol	108	4.049	4.051	-0.002	93034	1183.6	
35 2,2'-oxybis[1-chloropropane]	45	4.068	4.071	-0.003	72230	935.9	
36 3 & 4 Methylphenol	108	4.165	4.168	-0.003	92538	1176.0	
38 N-Nitrosodi-n-propylamine	70	4.171	4.171	0.000	56669	1112.8	
37 Acetophenone	105	4.176	4.179	-0.003	115252	1073.8	
39 Hexachloroethane	117	4.264	4.264	0.000	38118	1079.3	
40 Nitrobenzene	77	4.310	4.310	0.000	86098	1024.7	

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
41 Isophorone	82	4.491	4.494	-0.003	164984	1004.6	
42 2-Nitrophenol	139	4.557	4.557	0.000	57191	974.7	
43 2,4-Dimethylphenol	107	4.579	4.579	0.000	81061	1068.9	
44 Benzoic acid	105	4.636	4.645	-0.009	737	386.0	
45 Bis(2-chloroethoxy)methane	93	4.653	4.653	0.000	109378	1085.5	
46 2,4-Dichlorophenol	162	4.750	4.750	0.000	78984	1009.9	
47 1,2,4-Trichlorobenzene	180	4.812	4.812	0.000	107230	1138.7	
48 Naphthalene	128	4.880	4.880	0.000	321691	1056.5	
49 4-Chloroaniline	127	4.917	4.920	-0.003	75869	758.7	
50 Hexachlorobutadiene	225	4.971	4.974	-0.003	57204	1103.4	
51 4-Chloro-3-methylphenol	107	5.306	5.309	-0.003	68329	1053.5	
52 2-Methylnaphthalene	142	5.434	5.437	-0.003	219102	1160.8	
53 1-Methylnaphthalene	142	5.513	5.516	-0.003	222652	1104.4	
54 Hexachlorocyclopentadiene	237	5.559	5.561	-0.003	48554	821.3	
56 2,3-Dichlorobenzenamine	161	5.661	5.661	0.000	109355	1102.7	
55 2,4,6-Trichlorophenol	196	5.658	5.664	-0.006	62052	1168.6	
57 2,4,5-Trichlorophenol	196	5.700	5.703	-0.003	74287	1201.5	
58 1,1'-Biphenyl	154	5.811	5.811	0.000	245064	1021.5	
59 2-Chloronaphthalene	162	5.831	5.831	0.000	200153	1045.1	
60 2-Nitroaniline	65	5.908	5.911	-0.003	30407	983.2	
62 Dimethyl phthalate	163	6.050	6.052	-0.002	237100	1243.7	
63 2,6-Dinitrotoluene	165	6.101	6.104	-0.003	56281	1104.8	
64 Acenaphthylene	152	6.172	6.175	-0.002	336105	1160.5	
65 3-Nitroaniline	138	6.248	6.251	-0.003	33254	935.8	
66 Acenaphthene	153	6.311	6.314	-0.003	207885	1061.5	
67 2,4-Dinitrophenol	184	6.331	6.331	0.000	3919	469.2	
68 4-Nitrophenol	109	6.407	6.402	0.005	43845	3159.0	M
74 DFTPP							
69 2,4-Dinitrotoluene	165	6.433	6.433	0.000	59246	976.5	
70 Dibenzofuran	168	6.453	6.455	-0.002	276555	1043.5	
71 2,3,5,6-Tetrachlorophenol	232	6.518	6.521	-0.003	40755	766.2	
72 2,3,4,6-Tetrachlorophenol	232	6.555	6.558	-0.003	57763	1141.8	
73 Diethyl phthalate	149	6.629	6.631	-0.002	212463	1127.6	
76 4-Chlorophenyl phenyl ether	204	6.731	6.734	-0.003	112049	1141.6	
75 Fluorene	166	6.736	6.736	0.000	235774	1087.7	
77 4-Nitroaniline	138	6.748	6.756	-0.008	35312	1450.0	
78 4,6-Dinitro-2-methylphenol	198	6.765	6.771	-0.006	95860	3122.7	
79 N-Nitrosodiphenylamine	169	6.824	6.827	-0.003	189839	1057.1	
80 Azobenzene	77	6.861	6.861	0.000	163858	969.9	
81 4-Bromophenyl phenyl ether	248	7.134	7.137	-0.003	79315	1075.5	
82 Hexachlorobenzene	284	7.191	7.191	-0.001	106868	1131.3	
83 Pentachlorophenol	266	7.352	7.355	-0.003	26467	688.7	
84 n-Octadecane	43	7.401	7.401	0.000	42675	889.1	
85 Benzidine_T	184	7.506	7.460	0.046	37622	0	
86 Phenanthrene	178	7.528	7.531	-0.003	315269	990.7	
87 Anthracene	178	7.571	7.571	0.000	328843	1066.1	
88 4,4'-DDE	246	7.826	7.642	0.184	171	0	
89 Carbazole	167	7.699	7.701	-0.002	311545	1242.1	
91 4,4'-DDD	235	7.963	7.974	-0.012	163	0	
90 Di-n-butyl phthalate	149	7.974	7.977	-0.003	395438	1070.7	
92 4,4'-DDT	235	8.323	8.275	0.048	372	0	
96 Atrazine	200	8.454	8.461	-0.007	381	0	

Report Date: 27-May-2010 16:37:33 Chrom Revision: 1.1 20-Apr-2010 06:13:18
Data File: \\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15214.D

Compound	Sig	RT	EXP RT	DLT RT	Response	Amount ug/L	Flags
95 Fluoranthene	202	8.507	8.510	-0.003	376273	1130.3	
93 Pyrene	202	8.698	8.698	0.000	387485	1017.5	
97 Butyl benzyl phthalate	149	9.211	9.211	0.000	181166	1178.9	
98 3,3'-Dichlorobenzidine	252	9.688	9.691	-0.003	231977	2256.2	
101 Bis(2-ethylhexyl) phthalate	149	9.714	9.717	-0.003	249844	1071.5	
99 Benzo[a]anthracene	228	9.717	9.719	-0.002	362477	996.3	
100 Chrysene	228	9.751	9.754	-0.003	356821	927.5	
102 Di-n-octyl phthalate	149	10.392	10.395	-0.003	414412	1280.2	
197 Di-isodecyl phthalate	149	10.392	10.395	-0.003	400391	0	
103 Benzo[b]fluoranthene	252	10.823	10.829	-0.006	383132	1056.0	
104 Benzo[k]fluoranthene	252	10.852	10.858	-0.006	407402	1062.5	
105 Benzofluoranthene	252	10.852	10.858	-0.006	798454	2125.8	M
106 Benzo[a]pyrene	252	11.158	11.161	-0.003	369785	1026.1	
107 Indeno[1,2,3-cd]pyrene	276	12.487	12.490	-0.003	417756	986.8	M
108 Dibenz(a,h)anthracene	278	12.509	12.515	-0.006	337633	966.5	M
109 Benzo[g,h,i]perylene	276	12.853	12.859	-0.006	346280	966.7	M

QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 27-May-2010 16:37:33 Chrom Revision: 1.1 20-Apr-2010 06:13:18

Data File: \\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15214.D

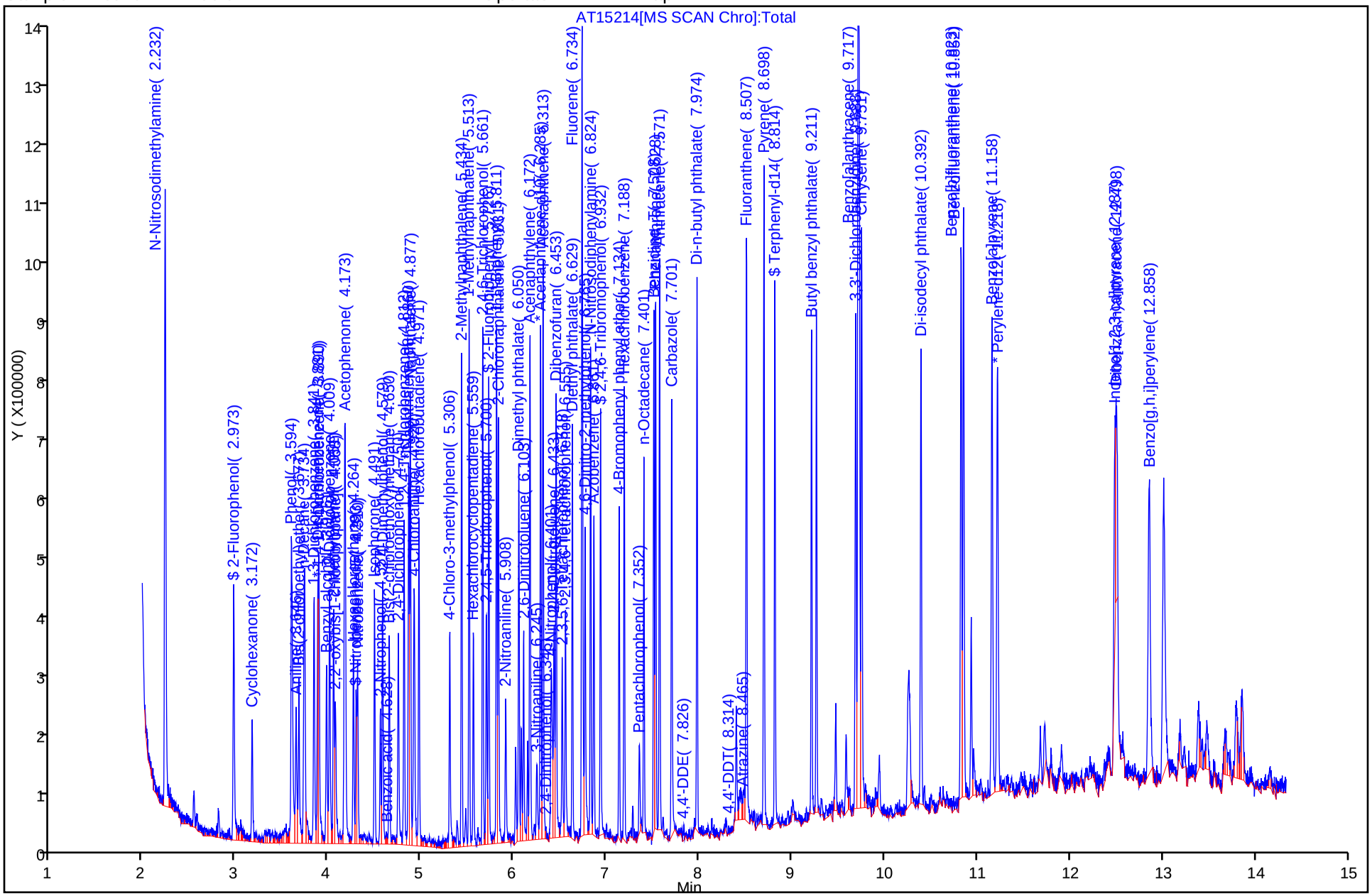
Inj Date: 27-May-2010 15:19:30 Limit Group: 8270C Standard

Lims Batch ID: 64507 Lims Sample ID: 11

Client ID: Instrument: TAC002

Sample Info: 580-19399-B-22-C MSD

Sample Amount: 1.00 ul Operator: ap



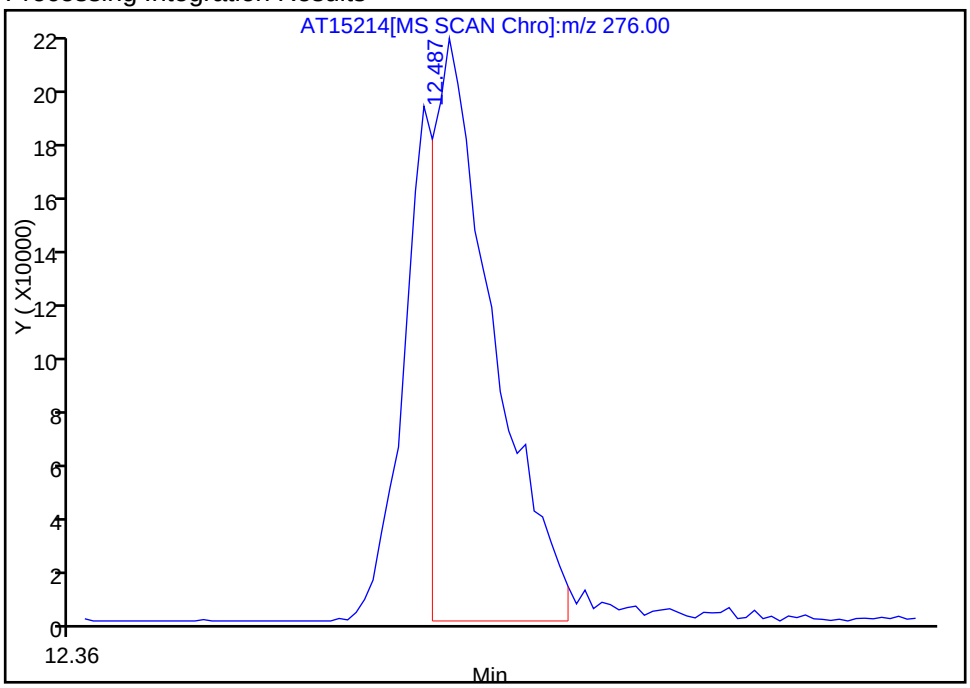
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15214.D		
Inj Date:	27-May-2010 15:19:30	Limit Group:	8270C Standard
Lims Batch ID:	64507	Lims Sample ID:	11
Client ID:		Instrument:	TAC002
Sample Info:	580-19399-B-22-C MSD		
Sample Amount:	1.00 ul	Operator:	ap

107 Indeno[1,2,3-cd]pyrene, Number: 1, m/z: 276 Type: quant, RT: 12.49

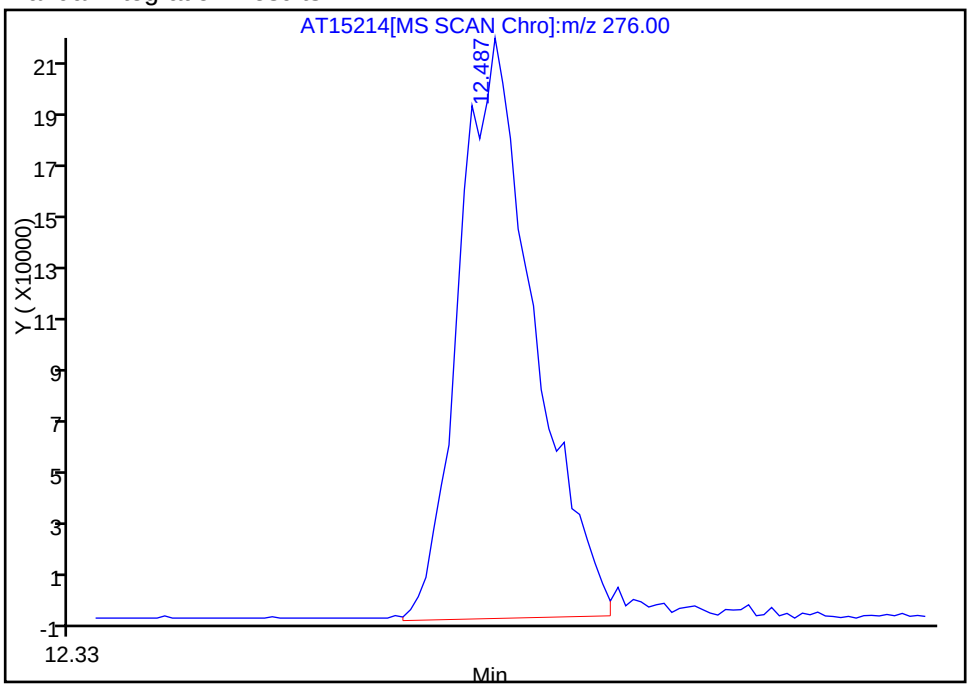
Processing Integration Results

RT: 12.49
Response: 290865
Amount: 687.0882



Manual Integration Results

RT: 12.49
Response: 417756
Amount: 986.8331



Reviewer: phama, 27-May-2010 16:37:33
Audit Action: Manually Integrated
Audit Reason: Other

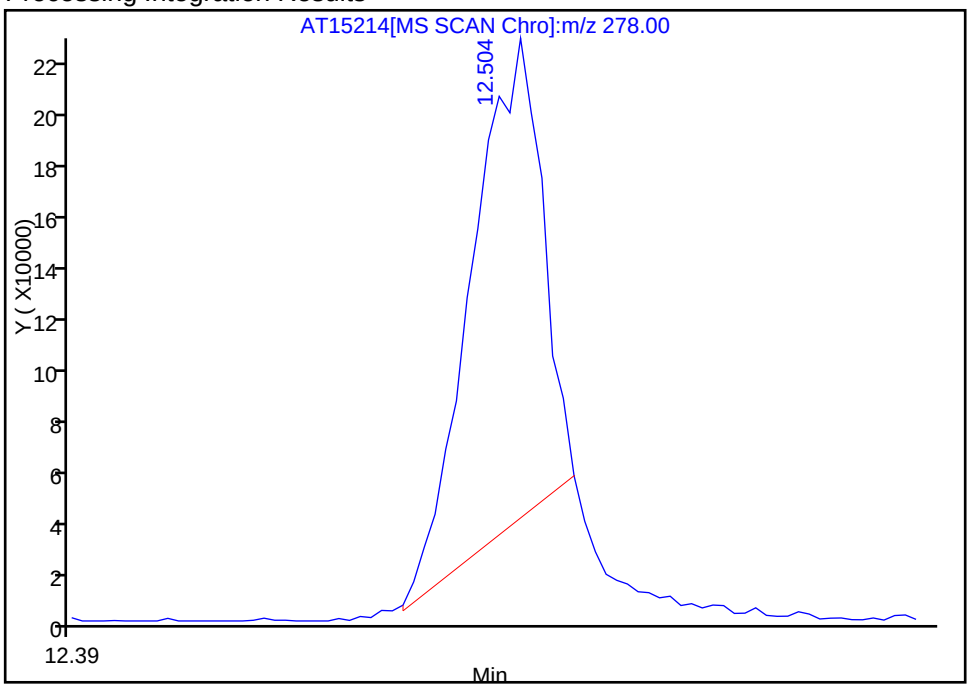
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15214.D		
Inj Date:	27-May-2010 15:19:30	Limit Group:	8270C Standard
Lims Batch ID:	64507	Lims Sample ID:	11
Client ID:		Instrument:	TAC002
Sample Info:	580-19399-B-22-C MSD		
Sample Amount:	1.00 ul	Operator:	ap

108 Dibenz(a,h)anthracene, Number: 1, m/z: 278 Type: quant, RT: 12.52

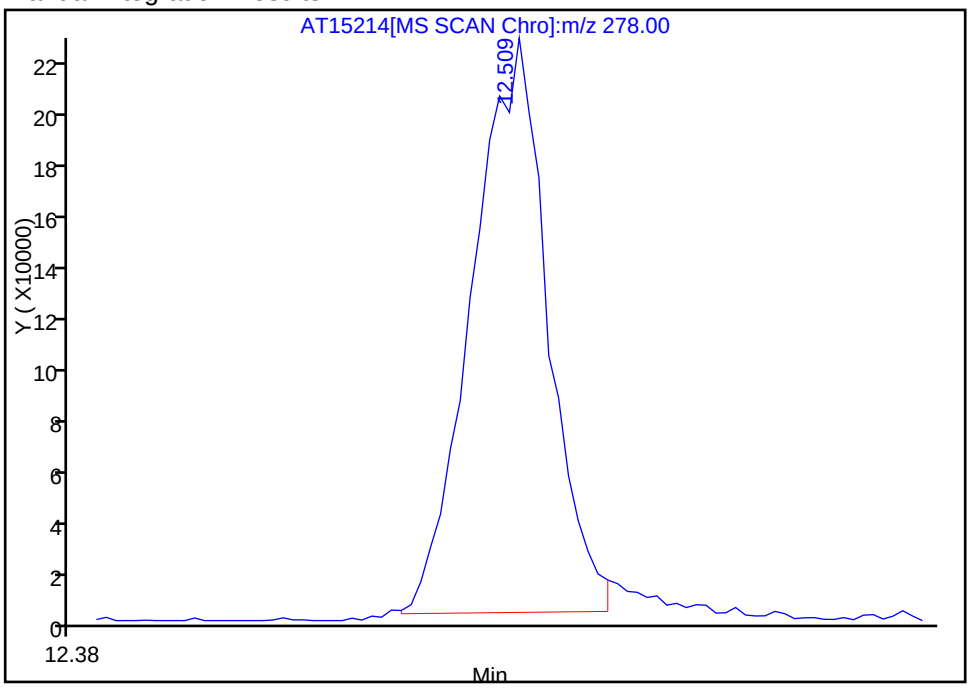
Processing Integration Results

RT: 12.50
Response: 245154
Amount: 701.7751



Manual Integration Results

RT: 12.51
Response: 337633
Amount: 966.5044



Reviewer: phama, 27-May-2010 16:37:33
Audit Action: Manually Integrated
Audit Reason: Other

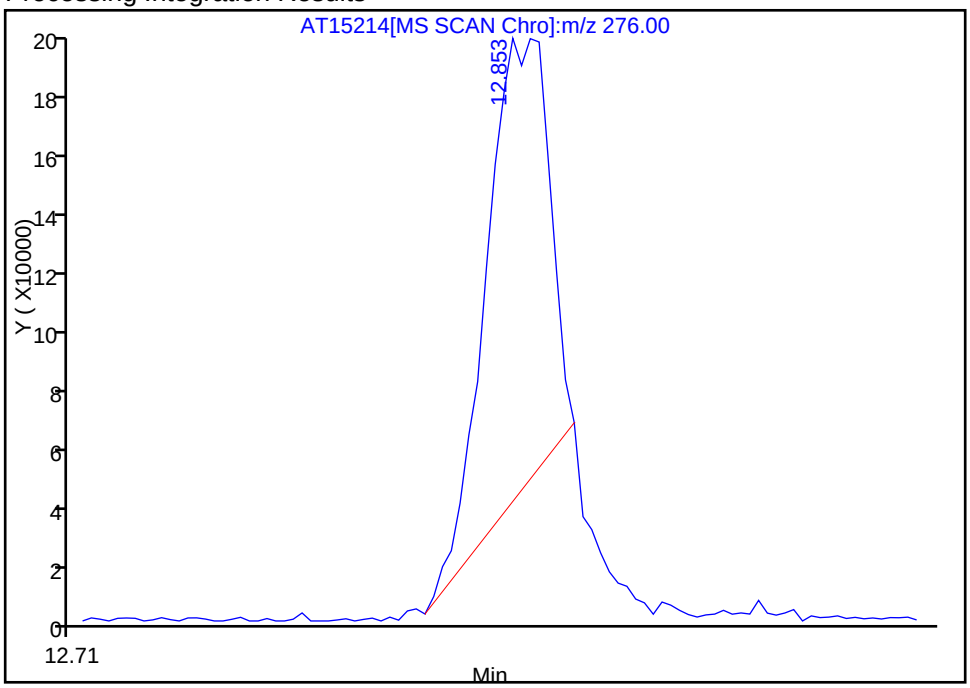
Chrom Revision: 1.1 20-Apr-2010 06:13:18
Manual Integration/User Assign Peak Report

Data File:	\\tacsvr5\ChromData\TAC002\20100527-9155.b\AT15214.D		
Inj Date:	27-May-2010 15:19:30	Limit Group:	8270C Standard
Lims Batch ID:	64507	Lims Sample ID:	11
Client ID:		Instrument:	TAC002
Sample Info:	580-19399-B-22-C MSD		
Sample Amount:	1.00 ul	Operator:	ap

109 Benzo[g,h,i]perylene, Number: 1, m/z: 276 Type: quant, RT: 12.86

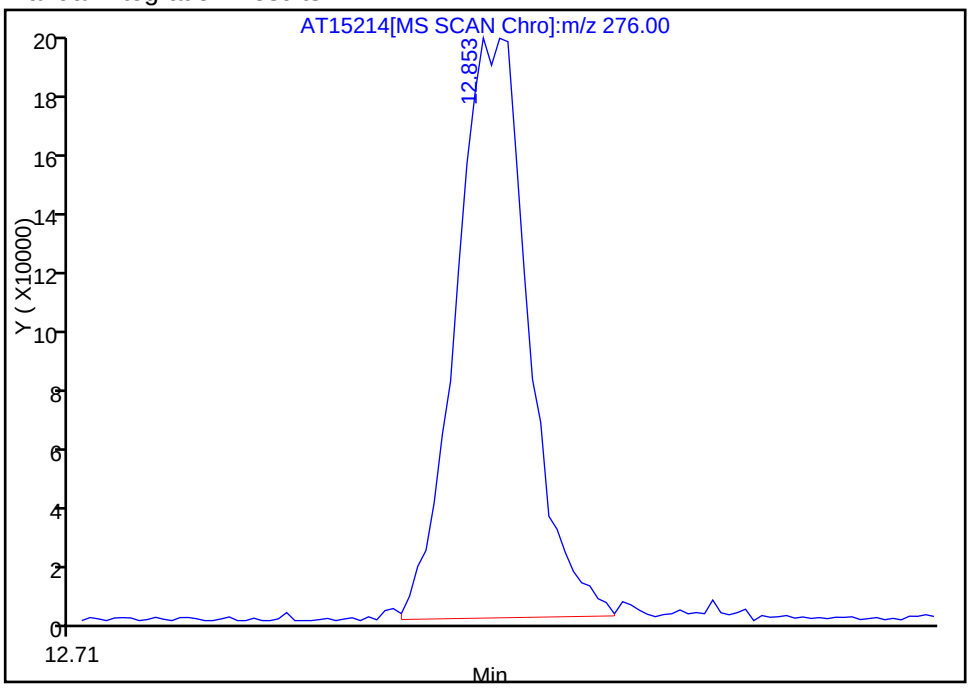
Processing Integration Results

RT: 12.85
Response: 218212
Amount: 609.1616



Manual Integration Results

RT: 12.85
Response: 346280
Amount: 966.6768



Reviewer: phama, 27-May-2010 16:37:33
Audit Action: Manually Integrated
Audit Reason: Baseline

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Instrument ID: TAC002 Start Date: 05/11/2010 13:55

Analysis Batch Number: 63269 End Date: 05/11/2010 19:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 580-63269/3		05/11/2010 13:55	1	AT15081.D	DB-5MS 0.25(mm)
IC 580-63269/5		05/11/2010 15:36	1	AT15083.D	DB-5MS 0.25(mm)
IC 580-63269/6		05/11/2010 15:56	1	AT15084.D	DB-5MS 0.25(mm)
IC 580-63269/7		05/11/2010 16:16	1	AT15085.D	DB-5MS 0.25(mm)
IC 580-63269/8		05/11/2010 16:36	1	AT15086.D	DB-5MS 0.25(mm)
IC 580-63269/9		05/11/2010 16:56	1	AT15087.D	DB-5MS 0.25(mm)
IC 580-63269/10 ICIS		05/11/2010 17:16	1	AT15088.D	DB-5MS 0.25(mm)
IC 580-63269/11		05/11/2010 17:36	1	AT15089.D	DB-5MS 0.25(mm)
IC 580-63269/12		05/11/2010 17:59	1	AT15090.D	DB-5MS 0.25(mm)
ICV 580-63269/13		05/11/2010 19:01	1	AT15091.D	DB-5MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Instrument ID: TAC002 Start Date: 05/27/2010 11:47

Analysis Batch Number: 64507 End Date: 05/27/2010 23:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 580-64507/2		05/27/2010 11:47	1	AT15205.D	DB-5MS 0.25(mm)
CCVIS 580-64507/3		05/27/2010 12:12	1	AT15206.D	DB-5MS 0.25(mm)
ZZZZZ		05/27/2010 12:57	1		DB-5MS 0.25(mm)
ZZZZZ		05/27/2010 13:17	1		DB-5MS 0.25(mm)
ZZZZZ		05/27/2010 13:37	1		DB-5MS 0.25(mm)
MB 580-64442/1-A		05/27/2010 13:58	1	AT15210.D	DB-5MS 0.25(mm)
LCS 580-64442/2-A		05/27/2010 14:18	1	AT15211.D	DB-5MS 0.25(mm)
580-19399-22	01HMST	05/27/2010 14:38	1	AT15212.D	DB-5MS 0.25(mm)
580-19399-22 MS	01HMST MS	05/27/2010 14:59	1	AT15213.D	DB-5MS 0.25(mm)
580-19399-22 MSD	01HMST MSD	05/27/2010 15:19	1	AT15214.D	DB-5MS 0.25(mm)
580-19399-23	02HMST	05/27/2010 15:39	1	AT15215.D	DB-5MS 0.25(mm)
580-19399-24	03HMST	05/27/2010 15:59	1	AT15216.D	DB-5MS 0.25(mm)
580-19399-25	04HMST	05/27/2010 16:20	1	AT15217.D	DB-5MS 0.25(mm)
ZZZZZ		05/27/2010 16:40	1		DB-5MS 0.25(mm)
ZZZZZ		05/27/2010 17:00	1		DB-5MS 0.25(mm)
ZZZZZ		05/27/2010 17:21	1		DB-5MS 0.25(mm)
ZZZZZ		05/27/2010 17:41	1		DB-5MS 0.25(mm)
ZZZZZ		05/27/2010 18:01	1		DB-5MS 0.25(mm)
ZZZZZ		05/27/2010 18:22	1		DB-5MS 0.25(mm)
ZZZZZ		05/27/2010 18:42	1		DB-5MS 0.25(mm)
ZZZZZ		05/27/2010 19:02	1		DB-5MS 0.25(mm)
ZZZZZ		05/27/2010 19:23	1		DB-5MS 0.25(mm)
ZZZZZ		05/27/2010 19:43	1		DB-5MS 0.25(mm)
ZZZZZ		05/27/2010 20:03	1		DB-5MS 0.25(mm)
ZZZZZ		05/27/2010 20:23	1		DB-5MS 0.25(mm)
ZZZZZ		05/27/2010 20:43	1		DB-5MS 0.25(mm)
ZZZZZ		05/27/2010 21:03	1		DB-5MS 0.25(mm)
ZZZZZ		05/27/2010 22:04	1		DB-5MS 0.25(mm)
ZZZZZ		05/27/2010 22:24	1		DB-5MS 0.25(mm)
ZZZZZ		05/27/2010 22:44	1		DB-5MS 0.25(mm)
ZZZZZ		05/27/2010 23:04	1		DB-5MS 0.25(mm)
ZZZZZ		05/27/2010 23:24	1		DB-5MS 0.25(mm)

Organic Prep Worksheet

Batch Number: 580-64442
Method: 3550B
Analyst: Johnson, Kara K

Date Open: May 26 2010 3:16PM
Batch End: May 26 2010 4:29PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	8270flspk_00070	8270Surr_00041
MB~580-64442/1		3550B, 8270C		10 g	10 mL		100 uL
LCS~580-64442/2		3550B, 8270C		10 g	10 mL	100 uL	100 uL
580-19399-B-22	01HMST	3550B, 8270C	T	10.2526 g	10 mL		100 uL
580-19399-B-22~MS	01HMST	3550B, 8270C	T	10.4993 g	10 mL	100 uL	100 uL
580-19399-B-22~MSD	01HMST	3550B, 8270C	T	10.1214 g	10 mL	100 uL	100 uL
580-19399-B-23	02HMST	3550B, 8270C	T	10.5696 g	10 mL		100 uL
580-19399-B-24	03HMST	3550B, 8270C	T	10.4346 g	10 mL		100 uL
580-19399-B-25	04HMST	3550B, 8270C	T	10.2374 g	10 mL		100 uL

Prep Solvent Volume Used:	10 (verified volumetrically) mL
Vendor of Reagent used:	JTB
Person's name who did the concentration:	Johnson, Kara
Person's name who witnessed reagent drop:	None
Na2SO4 Lot Number:	123109
Silica Gel Lot Number:	N/A
Concentration Start Time:	N/A
Concentration End Time:	N/A
Balance ID:	SEA202
Prep Solvent Name:	DCM
Prep Solvent Lot #:	H46S09
Exchange Solvent Name:	N/A
Exchange Solvent Lot #:	N/A
Blank Soil Lot Number:	507957
Florisil Lot #:	N/A
TBA Lot #:	N/A
Filter Paper Lot Number:	N/A
Copper Lot #:	N/A
Sulfuric Acid Lot Number:	N/A
Water Bath ID:	WB1
Water Bath Temperature:	41.8 - 58.7 C (corrected) Celsius
N-evap temperature:	N/A Celsius

Organic Prep Worksheet

Batch Number: 580-64442
Method: 3550B
Analyst: Johnson, Kara K

Date Open: May 26 2010 3:16PM
Batch End: May 26 2010 4:29PM

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
MB~580-64442/1		3550B, 8270C		
LCS~580-64442/2		3550B, 8270C		
580-19399-B-22	01HMST	3550B, 8270C	T	
580-19399-B-22~MS	01HMST	3550B, 8270C	T	
580-19399-B-22~MSD	01HMST	3550B, 8270C	T	
580-19399-B-23	02HMST	3550B, 8270C	T	
580-19399-B-24	03HMST	3550B, 8270C	T	
580-19399-B-25	04HMST	3550B, 8270C	T	

Batch Comment: Method 3550B_LL, 8270C

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Tacoma Job Number: 580-19399-1

SDG No.:

Project: Contact & Sonoma Mine Sites

Client Sample ID	Lab Sample ID
02SMRT1	580-19399-1
01SMSS	580-19399-2
02SMSS	580-19399-3
01CSBG	580-19399-4
03SMRT1	580-19399-5
04SMRT1	580-19399-6
05SMRT1	580-19399-7
06SMRT1	580-19399-8
03HMBG	580-19399-9
02CSBG	580-19399-10
10SMSS	580-19399-11
02HMBG	580-19399-12
03SMSS	580-19399-13
01SMRT2	580-19399-14
02SMRT2	580-19399-15
03SMRT2	580-19399-16
04SMRT2	580-19399-17
05SMRT2	580-19399-18
06SMRT2	580-19399-19
01SMRT1	580-19399-20
21HMSS	580-19399-21
01HMST	580-19399-22
02HMST	580-19399-23
03HMST	580-19399-24
04HMST	580-19399-25
11SMSS	580-19399-26
12SMSS	580-19399-27
13SMSS	580-19399-28
14SMSS	580-19399-29
15SMSS	580-19399-30
16SMSS	580-19399-31
17SMSS	580-19399-32

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 02SMRT1
Lab Sample ID: 580-19399-1
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/09/2010 13:15
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 83.7

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.70	0.23	0.0046	mg/Kg		^	10	6020
7440-36-0	Antimony	ND	0.23	0.075	mg/Kg		^	10	6020
7440-39-3	Barium	47	0.23	0.017	mg/Kg		^	10	6020
7440-41-7	Beryllium	ND	0.23	0.0079	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.23	0.0054	mg/Kg			10	6020
7440-47-3	Chromium	390	0.23	0.046	mg/Kg		^	10	6020
7439-92-1	Lead	3.8	0.23	0.012	mg/Kg			10	6020
7440-48-4	Cobalt	110	0.23	0.0061	mg/Kg		^	10	6020
7440-50-8	Copper	4.5	0.23	0.037	mg/Kg		^	10	6020
7439-89-6	Iron	47000	23	4.0	mg/Kg			10	6020
7439-96-5	Manganese	760	0.57	0.18	mg/Kg		^	10	6020
7440-02-0	Nickel	1900	0.23	0.042	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.57	0.0046	mg/Kg			10	6020
7440-22-4	Silver	ND	0.23	0.0047	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.46	0.046	mg/Kg			10	6020
7440-62-2	Vanadium	13	0.23	0.031	mg/Kg			10	6020
7440-66-6	Zinc	26	0.80	0.17	mg/Kg		^	10	6020
7429-90-5	Aluminum	2300	34	3.4	mg/Kg			10	6020
7439-95-4	Magnesium	200000	110	3.0	mg/Kg			10	6020
7440-09-7	Potassium	250	110	3.8	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	45	mg/Kg			10	6020
7440-70-2	Calcium	550	110	10	mg/Kg			10	6020
7439-97-6	Mercury	2.6	0.15	0.047	mg/Kg			10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 01SMSS
Lab Sample ID: 580-19399-2
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/09/2010 07:51
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 70.7

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	16	0.22	0.0045	mg/Kg		^	10	6020
7440-36-0	Antimony	1.1	0.22	0.074	mg/Kg		^	10	6020
7440-39-3	Barium	1800	0.22	0.017	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.48	0.22	0.0077	mg/Kg			10	6020
7440-43-9	Cadmium	0.37	0.22	0.0053	mg/Kg			10	6020
7440-47-3	Chromium	99	0.22	0.045	mg/Kg		^	10	6020
7439-92-1	Lead	39	0.22	0.012	mg/Kg			10	6020
7440-48-4	Cobalt	30	0.22	0.0060	mg/Kg		^	10	6020
7440-50-8	Copper	170	0.22	0.036	mg/Kg		^	10	6020
7439-89-6	Iron	59000	22	3.9	mg/Kg			10	6020
7439-96-5	Manganese	7400	0.56	0.18	mg/Kg		^	10	6020
7440-02-0	Nickel	310	0.22	0.041	mg/Kg		^	10	6020
7782-49-2	Selenium	0.82	0.56	0.0045	mg/Kg			10	6020
7440-22-4	Silver	ND	0.22	0.0046	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.45	0.045	mg/Kg			10	6020
7440-62-2	Vanadium	150	0.22	0.030	mg/Kg			10	6020
7440-66-6	Zinc	200	0.79	0.17	mg/Kg		^	10	6020
7429-90-5	Aluminum	13000	34	3.4	mg/Kg			10	6020
7439-95-4	Magnesium	14000	110	3.0	mg/Kg			10	6020
7440-09-7	Potassium	2900	110	3.7	mg/Kg			10	6020
7440-23-5	Sodium	150	110	44	mg/Kg			10	6020
7440-70-2	Calcium	11000	110	10	mg/Kg			10	6020
7439-97-6	Mercury	11	0.20	0.062	mg/Kg			10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 02SMSS
Lab Sample ID: 580-19399-3
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/09/2010 08:00
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 84.0

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	10	0.23	0.0045	mg/Kg		^	10	6020
7440-36-0	Antimony	1.4	0.23	0.075	mg/Kg		^	10	6020
7440-39-3	Barium	330	0.23	0.017	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.57	0.23	0.0078	mg/Kg			10	6020
7440-43-9	Cadmium	0.24	0.23	0.0053	mg/Kg			10	6020
7440-47-3	Chromium	150	0.23	0.045	mg/Kg		^	10	6020
7439-92-1	Lead	31	0.23	0.012	mg/Kg			10	6020
7440-48-4	Cobalt	52	0.23	0.0061	mg/Kg		^	10	6020
7440-50-8	Copper	58	0.23	0.037	mg/Kg		^	10	6020
7439-89-6	Iron	52000	23	3.9	mg/Kg			10	6020
7439-96-5	Manganese	1500	0.57	0.18	mg/Kg		^	10	6020
7440-02-0	Nickel	730	0.23	0.042	mg/Kg		^	10	6020
7782-49-2	Selenium	0.63	0.57	0.0045	mg/Kg			10	6020
7440-22-4	Silver	ND	0.23	0.0047	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.45	0.045	mg/Kg			10	6020
7440-62-2	Vanadium	59	0.23	0.030	mg/Kg			10	6020
7440-66-6	Zinc	100	0.80	0.17	mg/Kg		^	10	6020
7429-90-5	Aluminum	11000	34	3.4	mg/Kg			10	6020
7439-95-4	Magnesium	15000	110	3.0	mg/Kg			10	6020
7440-09-7	Potassium	1500	110	3.8	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	45	mg/Kg			10	6020
7440-70-2	Calcium	2900	110	10	mg/Kg			10	6020
7439-97-6	Mercury	49	16	5.2	mg/Kg			1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 01CSBG
Lab Sample ID: 580-19399-4
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/08/2010 17:00
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 98.1

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	7.2	0.19	0.0038	mg/Kg		^	10	6020
7440-36-0	Antimony	0.51	0.19	0.062	mg/Kg		^	10	6020
7440-39-3	Barium	180	0.19	0.014	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.49	0.19	0.0066	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.19	0.0044	mg/Kg			10	6020
7440-47-3	Chromium	44	0.19	0.038	mg/Kg		^	10	6020
7439-92-1	Lead	9.7	0.19	0.0099	mg/Kg			10	6020
7440-48-4	Cobalt	12	0.19	0.0051	mg/Kg		^	10	6020
7440-50-8	Copper	26	0.19	0.031	mg/Kg		^	10	6020
7439-89-6	Iron	27000	19	3.3	mg/Kg			10	6020
7439-96-5	Manganese	420	0.48	0.15	mg/Kg		^	10	6020
7440-02-0	Nickel	59	0.19	0.035	mg/Kg		^	10	6020
7782-49-2	Selenium	0.53	0.48	0.0038	mg/Kg			10	6020
7440-22-4	Silver	ND	0.19	0.0039	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.38	0.038	mg/Kg			10	6020
7440-62-2	Vanadium	38	0.19	0.025	mg/Kg			10	6020
7440-66-6	Zinc	58	0.67	0.14	mg/Kg		^	10	6020
7429-90-5	Aluminum	13000	29	2.9	mg/Kg			10	6020
7439-95-4	Magnesium	6900	95	2.5	mg/Kg			10	6020
7440-09-7	Potassium	1700	95	3.1	mg/Kg			10	6020
7440-23-5	Sodium	ND	95	37	mg/Kg			10	6020
7440-70-2	Calcium	2800	95	8.4	mg/Kg			10	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 03SMRT1
Lab Sample ID: 580-19399-5
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/09/2010 13:30
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 90.9

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	5.9	0.20	0.0039	mg/Kg		^	10	6020
7440-36-0	Antimony	0.51	0.20	0.065	mg/Kg		^	10	6020
7440-39-3	Barium	200	0.20	0.015	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.30	0.20	0.0068	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.20	0.0046	mg/Kg			10	6020
7440-47-3	Chromium	280	0.20	0.039	mg/Kg		^	10	6020
7439-92-1	Lead	15	0.20	0.010	mg/Kg			10	6020
7440-48-4	Cobalt	73	0.20	0.0053	mg/Kg		^	10	6020
7440-50-8	Copper	25	0.20	0.032	mg/Kg		^	10	6020
7439-89-6	Iron	58000	20	3.4	mg/Kg			10	6020
7439-96-5	Manganese	760	0.49	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	1300	0.20	0.036	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.49	0.0039	mg/Kg			10	6020
7440-22-4	Silver	ND	0.20	0.0040	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.39	0.039	mg/Kg			10	6020
7440-62-2	Vanadium	35	0.20	0.026	mg/Kg			10	6020
7440-66-6	Zinc	55	0.69	0.15	mg/Kg		^	10	6020
7429-90-5	Aluminum	10000	30	3.0	mg/Kg			10	6020
7439-95-4	Magnesium	100000	98	2.6	mg/Kg			10	6020
7440-09-7	Potassium	1100	98	3.3	mg/Kg			10	6020
7440-23-5	Sodium	ND	98	39	mg/Kg			10	6020
7440-70-2	Calcium	4200	98	8.7	mg/Kg			10	6020
7439-97-6	Mercury	160	19	5.9	mg/Kg			1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 04SMRT1
Lab Sample ID: 580-19399-6
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/09/2010 13:45
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 91.7

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	4.1	0.17	0.0033	mg/Kg		^	10	6020
7440-36-0	Antimony	0.21	0.17	0.055	mg/Kg		^	10	6020
7440-39-3	Barium	130	0.17	0.012	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.36	0.17	0.0057	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.17	0.0039	mg/Kg			10	6020
7440-47-3	Chromium	510	0.17	0.033	mg/Kg		^	10	6020
7439-92-1	Lead	6.2	0.17	0.0086	mg/Kg			10	6020
7440-48-4	Cobalt	120	0.17	0.0044	mg/Kg		^	10	6020
7440-50-8	Copper	15	0.17	0.027	mg/Kg		^	10	6020
7439-89-6	Iron	71000	17	2.9	mg/Kg			10	6020
7439-96-5	Manganese	690	0.41	0.13	mg/Kg		^	10	6020
7440-02-0	Nickel	2000	0.17	0.030	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.41	0.0033	mg/Kg			10	6020
7440-22-4	Silver	ND	0.17	0.0034	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.33	0.033	mg/Kg			10	6020
7440-62-2	Vanadium	37	0.17	0.022	mg/Kg			10	6020
7440-66-6	Zinc	45	0.58	0.12	mg/Kg		^	10	6020
7429-90-5	Aluminum	12000	25	2.5	mg/Kg			10	6020
7439-95-4	Magnesium	100000	83	2.2	mg/Kg			10	6020
7440-09-7	Potassium	470	83	2.7	mg/Kg			10	6020
7440-23-5	Sodium	ND	83	33	mg/Kg			10	6020
7440-70-2	Calcium	1200	83	7.4	mg/Kg			10	6020
7439-97-6	Mercury	36	19	5.9	mg/Kg			1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 05SMRT1
Lab Sample ID: 580-19399-7
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/09/2010 13:55
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 90.6

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	6.1	0.17	0.0034	mg/Kg		^	10	6020
7440-36-0	Antimony	0.46	0.17	0.056	mg/Kg		^	10	6020
7440-39-3	Barium	240	0.17	0.013	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.43	0.17	0.0059	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.17	0.0040	mg/Kg			10	6020
7440-47-3	Chromium	280	0.17	0.034	mg/Kg		^	10	6020
7439-92-1	Lead	20	0.17	0.0088	mg/Kg			10	6020
7440-48-4	Cobalt	65	0.17	0.0045	mg/Kg		^	10	6020
7440-50-8	Copper	30	0.17	0.027	mg/Kg		^	10	6020
7439-89-6	Iron	48000	17	2.9	mg/Kg			10	6020
7439-96-5	Manganese	840	0.42	0.13	mg/Kg		^	10	6020
7440-02-0	Nickel	1100	0.17	0.031	mg/Kg		^	10	6020
7782-49-2	Selenium	0.51	0.42	0.0034	mg/Kg			10	6020
7440-22-4	Silver	ND	0.17	0.0035	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.34	0.034	mg/Kg			10	6020
7440-62-2	Vanadium	40	0.17	0.023	mg/Kg			10	6020
7440-66-6	Zinc	65	0.59	0.13	mg/Kg		^	10	6020
7429-90-5	Aluminum	12000	25	2.5	mg/Kg			10	6020
7439-95-4	Magnesium	74000	85	2.2	mg/Kg			10	6020
7440-09-7	Potassium	940	85	2.8	mg/Kg			10	6020
7440-23-5	Sodium	ND	85	33	mg/Kg			10	6020
7440-70-2	Calcium	1200	85	7.5	mg/Kg			10	6020
7439-97-6	Mercury	47	17	5.3	mg/Kg			1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 06SMRT1
Lab Sample ID: 580-19399-8
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/09/2010 14:05
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 78.2

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	9.1	0.17	0.0034	mg/Kg		^	10	6020
7440-36-0	Antimony	0.52	0.17	0.057	mg/Kg		^	10	6020
7440-39-3	Barium	360	0.17	0.013	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.55	0.17	0.0059	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.17	0.0040	mg/Kg			10	6020
7440-47-3	Chromium	340	0.17	0.034	mg/Kg		^	10	6020
7439-92-1	Lead	11	0.17	0.0090	mg/Kg			10	6020
7440-48-4	Cobalt	74	0.17	0.0046	mg/Kg		^	10	6020
7440-50-8	Copper	30	0.17	0.028	mg/Kg		^	10	6020
7439-89-6	Iron	55000	17	3.0	mg/Kg			10	6020
7439-96-5	Manganese	1000	0.43	0.14	mg/Kg		^	10	6020
7440-02-0	Nickel	1000	0.17	0.032	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.43	0.0034	mg/Kg			10	6020
7440-22-4	Silver	ND	0.17	0.0035	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.34	0.034	mg/Kg			10	6020
7440-62-2	Vanadium	54	0.17	0.023	mg/Kg			10	6020
7440-66-6	Zinc	60	0.60	0.13	mg/Kg		^	10	6020
7429-90-5	Aluminum	18000	26	2.6	mg/Kg			10	6020
7439-95-4	Magnesium	45000	86	2.3	mg/Kg			10	6020
7440-09-7	Potassium	1300	86	2.8	mg/Kg			10	6020
7440-23-5	Sodium	ND	86	34	mg/Kg			10	6020
7440-70-2	Calcium	1100	86	7.6	mg/Kg			10	6020
7439-97-6	Mercury	130	16	5.1	mg/Kg			1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 03HMBG
Lab Sample ID: 580-19399-9
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/16/2010 12:45
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 85.3

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	5.4	0.17	0.0034	mg/Kg		^	10	6020
7440-36-0	Antimony	0.41	0.17	0.056	mg/Kg		^	10	6020
7440-39-3	Barium	100	0.17	0.013	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.58	0.17	0.0059	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.17	0.0040	mg/Kg			10	6020
7440-47-3	Chromium	130	0.17	0.034	mg/Kg		^	10	6020
7439-92-1	Lead	10	0.17	0.0089	mg/Kg			10	6020
7440-48-4	Cobalt	25	0.17	0.0046	mg/Kg		^	10	6020
7440-50-8	Copper	26	0.17	0.028	mg/Kg		^	10	6020
7439-89-6	Iron	32000	17	3.0	mg/Kg			10	6020
7439-96-5	Manganese	480	0.43	0.14	mg/Kg		^	10	6020
7440-02-0	Nickel	250	0.17	0.031	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.43	0.0034	mg/Kg			10	6020
7440-22-4	Silver	ND	0.17	0.0035	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.34	0.034	mg/Kg			10	6020
7440-62-2	Vanadium	43	0.17	0.023	mg/Kg			10	6020
7440-66-6	Zinc	54	0.60	0.13	mg/Kg		^	10	6020
7429-90-5	Aluminum	15000	26	2.6	mg/Kg			10	6020
7439-95-4	Magnesium	13000	86	2.3	mg/Kg			10	6020
7440-09-7	Potassium	970	86	2.8	mg/Kg			10	6020
7440-23-5	Sodium	ND	86	34	mg/Kg			10	6020
7440-70-2	Calcium	830	86	7.6	mg/Kg			10	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 02CSBG
Lab Sample ID: 580-19399-10
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/14/2010 15:15
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 89.4

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	6.9	0.19	0.0037	mg/Kg		^	10	6020
7440-36-0	Antimony	0.47	0.19	0.061	mg/Kg		^	10	6020
7440-39-3	Barium	230	0.19	0.014	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.48	0.19	0.0064	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.19	0.0044	mg/Kg			10	6020
7440-47-3	Chromium	130	0.19	0.037	mg/Kg		^	10	6020
7439-92-1	Lead	12	0.19	0.0097	mg/Kg			10	6020
7440-48-4	Cobalt	25	0.19	0.0050	mg/Kg		^	10	6020
7440-50-8	Copper	36	0.19	0.030	mg/Kg		^	10	6020
7439-89-6	Iron	32000	19	3.2	mg/Kg			10	6020
7439-96-5	Manganese	640	0.47	0.15	mg/Kg		^	10	6020
7440-02-0	Nickel	250	0.19	0.034	mg/Kg		^	10	6020
7782-49-2	Selenium	0.74	0.47	0.0037	mg/Kg			10	6020
7440-22-4	Silver	ND	0.19	0.0038	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.37	0.037	mg/Kg			10	6020
7440-62-2	Vanadium	45	0.19	0.025	mg/Kg			10	6020
7440-66-6	Zinc	59	0.65	0.14	mg/Kg		^	10	6020
7429-90-5	Aluminum	14000	28	2.8	mg/Kg			10	6020
7439-95-4	Magnesium	17000	93	2.5	mg/Kg			10	6020
7440-09-7	Potassium	1300	93	3.1	mg/Kg			10	6020
7440-23-5	Sodium	ND	93	37	mg/Kg			10	6020
7440-70-2	Calcium	3000	93	8.3	mg/Kg			10	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 10SMSS
Lab Sample ID: 580-19399-11
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/09/2010 10:05
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 92.1

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	7.6	0.17	0.0035	mg/Kg		^	10	6020
7440-36-0	Antimony	0.86	0.17	0.057	mg/Kg		^	10	6020
7440-39-3	Barium	240	0.17	0.013	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.45	0.17	0.0060	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.17	0.0040	mg/Kg			10	6020
7440-47-3	Chromium	300	0.17	0.035	mg/Kg		^	10	6020
7439-92-1	Lead	22	0.17	0.0090	mg/Kg			10	6020
7440-48-4	Cobalt	62	0.17	0.0046	mg/Kg		^	10	6020
7440-50-8	Copper	32	0.17	0.028	mg/Kg		^	10	6020
7439-89-6	Iron	43000	17	3.0	mg/Kg			10	6020
7439-96-5	Manganese	1200	0.43	0.14	mg/Kg		^	10	6020
7440-02-0	Nickel	830	0.17	0.032	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.43	0.0035	mg/Kg			10	6020
7440-22-4	Silver	ND	0.17	0.0035	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.35	0.035	mg/Kg			10	6020
7440-62-2	Vanadium	45	0.17	0.023	mg/Kg			10	6020
7440-66-6	Zinc	58	0.60	0.13	mg/Kg		^	10	6020
7429-90-5	Aluminum	12000	26	2.6	mg/Kg			10	6020
7439-95-4	Magnesium	37000	86	2.3	mg/Kg			10	6020
7440-09-7	Potassium	950	86	2.9	mg/Kg			10	6020
7440-23-5	Sodium	ND	86	34	mg/Kg			10	6020
7440-70-2	Calcium	1600	86	7.6	mg/Kg			10	6020
7439-97-6	Mercury	200	17	5.3	mg/Kg			1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 02HMBG
Lab Sample ID: 580-19399-12
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/07/2010 08:55
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 93.9

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	8.2	0.18	0.0036	mg/Kg		^	10	6020
7440-36-0	Antimony	0.22	0.18	0.059	mg/Kg		^	10	6020
7440-39-3	Barium	130	0.18	0.013	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.18	0.18	0.0061	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.18	0.0042	mg/Kg			10	6020
7440-47-3	Chromium	870	0.18	0.036	mg/Kg		^	10	6020
7439-92-1	Lead	3.2	0.18	0.0093	mg/Kg			10	6020
7440-48-4	Cobalt	84	0.18	0.0048	mg/Kg		^	10	6020
7440-50-8	Copper	30	0.18	0.029	mg/Kg		^	10	6020
7439-89-6	Iron	52000	18	3.1	mg/Kg			10	6020
7439-96-5	Manganese	680	0.45	0.14	mg/Kg		^	10	6020
7440-02-0	Nickel	1300	0.18	0.033	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.45	0.0036	mg/Kg			10	6020
7440-22-4	Silver	ND	0.18	0.0037	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.36	0.036	mg/Kg			10	6020
7440-62-2	Vanadium	52	0.18	0.024	mg/Kg			10	6020
7440-66-6	Zinc	36	0.62	0.13	mg/Kg		^	10	6020
7429-90-5	Aluminum	17000	27	2.7	mg/Kg			10	6020
7439-95-4	Magnesium	65000	89	2.4	mg/Kg			10	6020
7440-09-7	Potassium	420	89	2.9	mg/Kg			10	6020
7440-23-5	Sodium	ND	89	35	mg/Kg			10	6020
7440-70-2	Calcium	1800	89	7.9	mg/Kg			10	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 03SMSS
Lab Sample ID: 580-19399-13
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/09/2010 08:15
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 92.7

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	7.5	0.21	0.0042	mg/Kg		^	10	6020
7440-36-0	Antimony	1.3	0.21	0.068	mg/Kg		^	10	6020
7440-39-3	Barium	130	0.21	0.015	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.45	0.21	0.0072	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.21	0.0049	mg/Kg			10	6020
7440-47-3	Chromium	250	0.21	0.042	mg/Kg		^	10	6020
7439-92-1	Lead	120	0.21	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	73	0.21	0.0056	mg/Kg		^	10	6020
7440-50-8	Copper	32	0.21	0.034	mg/Kg		^	10	6020
7439-89-6	Iron	53000	21	3.6	mg/Kg			10	6020
7439-96-5	Manganese	850	0.52	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	1300	0.21	0.038	mg/Kg		^	10	6020
7782-49-2	Selenium	0.71	0.52	0.0042	mg/Kg			10	6020
7440-22-4	Silver	ND	0.21	0.0043	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.42	0.042	mg/Kg			10	6020
7440-62-2	Vanadium	43	0.21	0.028	mg/Kg			10	6020
7440-66-6	Zinc	70	0.73	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	9300	31	3.1	mg/Kg			10	6020
7439-95-4	Magnesium	39000	100	2.7	mg/Kg			10	6020
7440-09-7	Potassium	1200	100	3.4	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	41	mg/Kg			10	6020
7440-70-2	Calcium	1300	100	9.2	mg/Kg			10	6020
7439-97-6	Mercury	14	1.6	0.49	mg/Kg			100	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 01SMRT2

Lab Sample ID: 580-19399-14

Lab Name: TestAmerica Tacoma

Job No.: 580-19399-1

SDG ID.:

Matrix: Solid

Date Sampled: 05/09/2010 15:00

Reporting Basis: DRY

Date Received: 05/18/2010 09:50

% Solids: 95.7

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	5.0	0.20	0.0040	mg/Kg		^	10	6020
7440-36-0	Antimony	1.9	0.20	0.066	mg/Kg		^	10	6020
7440-39-3	Barium	130	0.20	0.015	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.27	0.20	0.0069	mg/Kg			10	6020
7440-43-9	Cadmium	0.43	0.20	0.0047	mg/Kg			10	6020
7440-47-3	Chromium	1500	0.20	0.040	mg/Kg		^	10	6020
7439-92-1	Lead	620	0.20	0.010	mg/Kg			10	6020
7440-48-4	Cobalt	68	0.20	0.0054	mg/Kg		^	10	6020
7440-50-8	Copper	54	0.20	0.032	mg/Kg		^	10	6020
7439-89-6	Iron	150000	20	3.5	mg/Kg			10	6020
7439-96-5	Manganese	540	0.50	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	740	0.20	0.037	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.50	0.0040	mg/Kg			10	6020
7440-22-4	Silver	ND	0.20	0.0041	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.40	0.040	mg/Kg			10	6020
7440-62-2	Vanadium	61	0.20	0.027	mg/Kg			10	6020
7440-66-6	Zinc	790	0.70	0.15	mg/Kg		^	10	6020
7429-90-5	Aluminum	11000	30	3.0	mg/Kg			10	6020
7439-95-4	Magnesium	8000	100	2.6	mg/Kg			10	6020
7440-09-7	Potassium	1200	100	3.3	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	39	mg/Kg			10	6020
7440-70-2	Calcium	3700	100	8.9	mg/Kg			10	6020
7439-97-6	Mercury	4100	150	48	mg/Kg			10000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 02SMRT2

Lab Sample ID: 580-19399-15

Lab Name: TestAmerica Tacoma

Job No.: 580-19399-1

SDG ID.:

Matrix: Solid

Date Sampled: 05/09/2010 15:10

Reporting Basis: DRY

Date Received: 05/18/2010 09:50

% Solids: 95.3

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	11	0.20	0.0040	mg/Kg		^	10	6020
7440-36-0	Antimony	0.22	0.20	0.066	mg/Kg		^	10	6020
7440-39-3	Barium	220	0.20	0.015	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.59	0.20	0.0069	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.20	0.0047	mg/Kg			10	6020
7440-47-3	Chromium	170	0.20	0.040	mg/Kg		^	10	6020
7439-92-1	Lead	18	0.20	0.010	mg/Kg			10	6020
7440-48-4	Cobalt	41	0.20	0.0054	mg/Kg		^	10	6020
7440-50-8	Copper	39	0.20	0.032	mg/Kg		^	10	6020
7439-89-6	Iron	43000	20	3.5	mg/Kg			10	6020
7439-96-5	Manganese	820	0.50	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	440	0.20	0.037	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.50	0.0040	mg/Kg			10	6020
7440-22-4	Silver	ND	0.20	0.0041	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.40	0.040	mg/Kg			10	6020
7440-62-2	Vanadium	50	0.20	0.027	mg/Kg			10	6020
7440-66-6	Zinc	85	0.70	0.15	mg/Kg		^	10	6020
7429-90-5	Aluminum	17000	30	3.0	mg/Kg			10	6020
7439-95-4	Magnesium	17000	100	2.6	mg/Kg			10	6020
7440-09-7	Potassium	1100	100	3.3	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	39	mg/Kg			10	6020
7440-70-2	Calcium	1400	100	8.9	mg/Kg			10	6020
7439-97-6	Mercury	30	14	4.4	mg/Kg			1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 03SMRT2
Lab Sample ID: 580-19399-16
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/09/2010 15:15
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 89.3

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	9.9	0.22	0.0045	mg/Kg		^	10	6020
7440-36-0	Antimony	0.76	0.22	0.073	mg/Kg		^	10	6020
7440-39-3	Barium	260	0.22	0.017	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.59	0.22	0.0077	mg/Kg			10	6020
7440-43-9	Cadmium	0.27	0.22	0.0052	mg/Kg			10	6020
7440-47-3	Chromium	130	0.22	0.045	mg/Kg		^	10	6020
7439-92-1	Lead	140	0.22	0.012	mg/Kg			10	6020
7440-48-4	Cobalt	27	0.22	0.0060	mg/Kg		^	10	6020
7440-50-8	Copper	59	0.22	0.036	mg/Kg		^	10	6020
7439-89-6	Iron	42000	22	3.9	mg/Kg			10	6020
7439-96-5	Manganese	750	0.56	0.18	mg/Kg		^	10	6020
7440-02-0	Nickel	220	0.22	0.041	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.56	0.0045	mg/Kg			10	6020
7440-22-4	Silver	ND	0.22	0.0046	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.45	0.045	mg/Kg			10	6020
7440-62-2	Vanadium	49	0.22	0.030	mg/Kg			10	6020
7440-66-6	Zinc	120	0.78	0.17	mg/Kg		^	10	6020
7429-90-5	Aluminum	19000	34	3.4	mg/Kg			10	6020
7439-95-4	Magnesium	9800	110	2.9	mg/Kg			10	6020
7440-09-7	Potassium	1900	110	3.7	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	44	mg/Kg			10	6020
7440-70-2	Calcium	2400	110	9.9	mg/Kg			10	6020
7439-97-6	Mercury	920	130	42	mg/Kg			10000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 04SMRT2
Lab Sample ID: 580-19399-17
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/09/2010 15:30
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 94.3

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	7.1	0.18	0.0037	mg/Kg		^	10	6020
7440-36-0	Antimony	0.25	0.18	0.060	mg/Kg		^	10	6020
7440-39-3	Barium	250	0.18	0.014	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.47	0.18	0.0063	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.18	0.0043	mg/Kg			10	6020
7440-47-3	Chromium	280	0.18	0.037	mg/Kg		^	10	6020
7439-92-1	Lead	13	0.18	0.0096	mg/Kg			10	6020
7440-48-4	Cobalt	63	0.18	0.0049	mg/Kg		^	10	6020
7440-50-8	Copper	32	0.18	0.030	mg/Kg		^	10	6020
7439-89-6	Iron	49000	18	3.2	mg/Kg			10	6020
7439-96-5	Manganese	760	0.46	0.15	mg/Kg		^	10	6020
7440-02-0	Nickel	1100	0.18	0.034	mg/Kg		^	10	6020
7782-49-2	Selenium	0.66	0.46	0.0037	mg/Kg			10	6020
7440-22-4	Silver	ND	0.18	0.0038	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.37	0.037	mg/Kg			10	6020
7440-62-2	Vanadium	45	0.18	0.025	mg/Kg			10	6020
7440-66-6	Zinc	89	0.64	0.14	mg/Kg		^	10	6020
7429-90-5	Aluminum	14000	28	2.8	mg/Kg			10	6020
7439-95-4	Magnesium	58000	92	2.4	mg/Kg			10	6020
7440-09-7	Potassium	1300	92	3.0	mg/Kg			10	6020
7440-23-5	Sodium	ND	92	36	mg/Kg			10	6020
7440-70-2	Calcium	1500	92	8.1	mg/Kg			10	6020
7439-97-6	Mercury	130	20	6.3	mg/Kg			1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 05SMRT2
Lab Sample ID: 580-19399-18
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/09/2010 15:37
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 91.9

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	9.9	0.19	0.0037	mg/Kg		^	10	6020
7440-36-0	Antimony	0.22	0.19	0.062	mg/Kg		^	10	6020
7440-39-3	Barium	300	0.19	0.014	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.62	0.19	0.0065	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.19	0.0044	mg/Kg			10	6020
7440-47-3	Chromium	200	0.19	0.037	mg/Kg		^	10	6020
7439-92-1	Lead	16	0.19	0.0097	mg/Kg			10	6020
7440-48-4	Cobalt	37	0.19	0.0050	mg/Kg		^	10	6020
7440-50-8	Copper	65	0.19	0.030	mg/Kg		^	10	6020
7439-89-6	Iron	42000	19	3.2	mg/Kg			10	6020
7439-96-5	Manganese	1000	0.47	0.15	mg/Kg		^	10	6020
7440-02-0	Nickel	430	0.19	0.034	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.47	0.0037	mg/Kg			10	6020
7440-22-4	Silver	ND	0.19	0.0038	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.37	0.037	mg/Kg			10	6020
7440-62-2	Vanadium	47	0.19	0.025	mg/Kg			10	6020
7440-66-6	Zinc	79	0.66	0.14	mg/Kg		^	10	6020
7429-90-5	Aluminum	18000	28	2.8	mg/Kg			10	6020
7439-95-4	Magnesium	16000	94	2.5	mg/Kg			10	6020
7440-09-7	Potassium	1200	94	3.1	mg/Kg			10	6020
7440-23-5	Sodium	ND	94	37	mg/Kg			10	6020
7440-70-2	Calcium	760	94	8.3	mg/Kg			10	6020
7439-97-6	Mercury	100	12	3.8	mg/Kg			1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 06SMRT2
Lab Sample ID: 580-19399-19
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/09/2010 15:47
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 80.0

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	8.7	0.25	0.0049	mg/Kg		^	10	6020
7440-36-0	Antimony	0.79	0.25	0.081	mg/Kg		^	10	6020
7440-39-3	Barium	340	0.25	0.018	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.63	0.25	0.0085	mg/Kg			10	6020
7440-43-9	Cadmium	0.30	0.25	0.0057	mg/Kg			10	6020
7440-47-3	Chromium	230	0.25	0.049	mg/Kg		^	10	6020
7439-92-1	Lead	78	0.25	0.013	mg/Kg			10	6020
7440-48-4	Cobalt	48	0.25	0.0066	mg/Kg		^	10	6020
7440-50-8	Copper	55	0.25	0.040	mg/Kg		^	10	6020
7439-89-6	Iron	48000	25	4.2	mg/Kg			10	6020
7439-96-5	Manganese	1000	0.61	0.19	mg/Kg		^	10	6020
7440-02-0	Nickel	670	0.25	0.045	mg/Kg		^	10	6020
7782-49-2	Selenium	0.69	0.61	0.0049	mg/Kg			10	6020
7440-22-4	Silver	ND	0.25	0.0050	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.49	0.049	mg/Kg			10	6020
7440-62-2	Vanadium	55	0.25	0.033	mg/Kg			10	6020
7440-66-6	Zinc	140	0.86	0.18	mg/Kg		^	10	6020
7429-90-5	Aluminum	19000	37	3.7	mg/Kg			10	6020
7439-95-4	Magnesium	18000	120	3.2	mg/Kg			10	6020
7440-09-7	Potassium	2000	120	4.1	mg/Kg			10	6020
7440-23-5	Sodium	ND	120	48	mg/Kg			10	6020
7440-70-2	Calcium	2600	120	11	mg/Kg			10	6020
7439-97-6	Mercury	97	22	6.9	mg/Kg			1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 01SMRT1

Lab Sample ID: 580-19399-20

Lab Name: TestAmerica Tacoma

Job No.: 580-19399-1

SDG ID.:

Matrix: Solid

Date Sampled: 05/09/2010 13:05

Reporting Basis: DRY

Date Received: 05/18/2010 09:50

% Solids: 86.6

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	7.9	0.21	0.0043	mg/Kg		^	10	6020
7440-36-0	Antimony	0.27	0.21	0.070	mg/Kg		^	10	6020
7440-39-3	Barium	190	0.21	0.016	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.41	0.21	0.0074	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.21	0.0050	mg/Kg			10	6020
7440-47-3	Chromium	240	0.21	0.043	mg/Kg		^	10	6020
7439-92-1	Lead	24	0.21	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	61	0.21	0.0057	mg/Kg		^	10	6020
7440-50-8	Copper	28	0.21	0.034	mg/Kg		^	10	6020
7439-89-6	Iron	46000	21	3.7	mg/Kg			10	6020
7439-96-5	Manganese	800	0.53	0.17	mg/Kg		^	10	6020
7440-02-0	Nickel	1000	0.21	0.039	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.53	0.0043	mg/Kg			10	6020
7440-22-4	Silver	ND	0.21	0.0044	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.43	0.043	mg/Kg			10	6020
7440-62-2	Vanadium	44	0.21	0.029	mg/Kg			10	6020
7440-66-6	Zinc	62	0.75	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	12000	32	3.2	mg/Kg			10	6020
7439-95-4	Magnesium	44000	110	2.8	mg/Kg			10	6020
7440-09-7	Potassium	1100	110	3.5	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	42	mg/Kg			10	6020
7440-70-2	Calcium	1800	110	9.5	mg/Kg			10	6020
7439-97-6	Mercury	73	9.4	3.0	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 21HMSS
Lab Sample ID: 580-19399-21
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/12/2010 08:50
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 76.4

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	6.8	0.22	0.0045	mg/Kg		^	10	6020
7440-36-0	Antimony	0.22	0.22	0.073	mg/Kg		^	10	6020
7440-39-3	Barium	100	0.22	0.016	mg/Kg		^	10	6020
7440-41-7	Beryllium	ND	0.22	0.0077	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.22	0.0052	mg/Kg			10	6020
7440-47-3	Chromium	260	0.22	0.045	mg/Kg		^	10	6020
7439-92-1	Lead	7.9	0.22	0.012	mg/Kg			10	6020
7440-48-4	Cobalt	38	0.22	0.0060	mg/Kg		^	10	6020
7440-50-8	Copper	40	0.22	0.036	mg/Kg		^	10	6020
7439-89-6	Iron	95000	22	3.8	mg/Kg			10	6020
7439-96-5	Manganese	79	0.56	0.18	mg/Kg		^	10	6020
7440-02-0	Nickel	260	0.22	0.041	mg/Kg		^	10	6020
7782-49-2	Selenium	0.64	0.56	0.0045	mg/Kg			10	6020
7440-22-4	Silver	ND	0.22	0.0046	mg/Kg			10	6020
7440-28-0	Thallium	3.5	0.45	0.045	mg/Kg		^	10	6020
7440-62-2	Vanadium	38	0.22	0.030	mg/Kg			10	6020
7440-66-6	Zinc	48	0.78	0.17	mg/Kg		^	10	6020
7429-90-5	Aluminum	7800	33	3.3	mg/Kg			10	6020
7439-95-4	Magnesium	2700	110	2.9	mg/Kg			10	6020
7440-09-7	Potassium	610	110	3.7	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	44	mg/Kg			10	6020
7440-70-2	Calcium	210	110	9.9	mg/Kg			10	6020
7439-97-6	Mercury	1100	130	40	mg/Kg			5000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 01HMST
Lab Sample ID: 580-19399-22
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/05/2010 10:00
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 74.6

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	1.2	0.24	0.0047	mg/Kg		^	10	6020
7440-36-0	Antimony	ND	0.24	0.078	mg/Kg		^	10	6020
7440-39-3	Barium	27	0.24	0.017	mg/Kg		^	10	6020
7440-41-7	Beryllium	ND	0.24	0.0082	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.24	0.0055	mg/Kg			10	6020
7440-47-3	Chromium	890	0.24	0.047	mg/Kg		^	10	6020
7439-92-1	Lead	8.1	0.24	0.012	mg/Kg			10	6020
7440-48-4	Cobalt	140	0.24	0.0063	mg/Kg		^	10	6020
7440-50-8	Copper	8.1	0.24	0.038	mg/Kg		^	10	6020
7439-89-6	Iron	75000	24	4.1	mg/Kg			10	6020
7439-96-5	Manganese	1200	0.59	0.19	mg/Kg		^	10	6020
7440-02-0	Nickel	2500	0.24	0.043	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.59	0.0047	mg/Kg			10	6020
7440-22-4	Silver	ND	0.24	0.0048	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.47	0.047	mg/Kg			10	6020
7440-62-2	Vanadium	26	0.24	0.032	mg/Kg			10	6020
7440-66-6	Zinc	41	0.83	0.18	mg/Kg		^	10	6020
7429-90-5	Aluminum	2200	35	3.5	mg/Kg			10	6020
7439-95-4	Magnesium	140000	120	3.1	mg/Kg			10	6020
7440-09-7	Potassium	ND	120	3.9	mg/Kg			10	6020
7440-23-5	Sodium	ND	120	46	mg/Kg			10	6020
7440-70-2	Calcium	740	120	10	mg/Kg			10	6020
7439-97-6	Mercury	110	11	3.5	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 02HMST
Lab Sample ID: 580-19399-23
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/12/2010 10:02
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 59.5

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	6.8	0.31	0.0063	mg/Kg		^	10	6020
7440-36-0	Antimony	0.46	0.31	0.10	mg/Kg		^	10	6020
7440-39-3	Barium	190	0.31	0.023	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.39	0.31	0.011	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.31	0.0074	mg/Kg			10	6020
7440-47-3	Chromium	200	0.31	0.063	mg/Kg		^	10	6020
7439-92-1	Lead	120	0.31	0.016	mg/Kg			10	6020
7440-48-4	Cobalt	30	0.31	0.0084	mg/Kg		^	10	6020
7440-50-8	Copper	19	0.31	0.051	mg/Kg		^	10	6020
7439-89-6	Iron	30000	31	5.4	mg/Kg			10	6020
7439-96-5	Manganese	540	0.79	0.25	mg/Kg		^	10	6020
7440-02-0	Nickel	410	0.31	0.058	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.79	0.0063	mg/Kg			10	6020
7440-22-4	Silver	ND	0.31	0.0064	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.63	0.063	mg/Kg			10	6020
7440-62-2	Vanadium	36	0.31	0.042	mg/Kg			10	6020
7440-66-6	Zinc	56	1.1	0.24	mg/Kg		^	10	6020
7429-90-5	Aluminum	15000	47	4.7	mg/Kg			10	6020
7439-95-4	Magnesium	21000	160	4.2	mg/Kg			10	6020
7440-09-7	Potassium	1500	160	5.2	mg/Kg			10	6020
7440-23-5	Sodium	160	160	62	mg/Kg			10	6020
7440-70-2	Calcium	5000	160	14	mg/Kg			10	6020
7439-97-6	Mercury	290	11	3.5	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 03HMST
Lab Sample ID: 580-19399-24
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/12/2010 10:07
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 68.6

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	0.26	0.0051	mg/Kg		^	10	6020
7440-36-0	Antimony	ND	0.26	0.084	mg/Kg		^	10	6020
7440-39-3	Barium	2.1	0.26	0.019	mg/Kg		^	10	6020
7440-41-7	Beryllium	ND	0.26	0.0088	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.26	0.0060	mg/Kg			10	6020
7440-47-3	Chromium	1.5	0.26	0.051	mg/Kg		^	10	6020
7439-92-1	Lead	6.0	0.26	0.013	mg/Kg			10	6020
7440-48-4	Cobalt	0.65	0.26	0.0068	mg/Kg		^	10	6020
7440-50-8	Copper	1.2	0.26	0.041	mg/Kg		^	10	6020
7439-89-6	Iron	210	26	4.4	mg/Kg			10	6020
7439-96-5	Manganese	5.8	0.64	0.20	mg/Kg		^	10	6020
7440-02-0	Nickel	7.3	0.26	0.047	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.64	0.0051	mg/Kg			10	6020
7440-22-4	Silver	ND	0.26	0.0052	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.51	0.051	mg/Kg			10	6020
7440-62-2	Vanadium	ND	0.26	0.034	mg/Kg			10	6020
7440-66-6	Zinc	ND	0.89	0.19	mg/Kg		^	10	6020
7429-90-5	Aluminum	110	38	3.8	mg/Kg			10	6020
7439-95-4	Magnesium	560	130	3.4	mg/Kg			10	6020
7440-09-7	Potassium	ND	130	4.2	mg/Kg			10	6020
7440-23-5	Sodium	ND	130	50	mg/Kg			10	6020
7440-70-2	Calcium	ND	130	11	mg/Kg			10	6020
7439-97-6	Mercury	7900	850	270	mg/Kg			50000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 04HMST
Lab Sample ID: 580-19399-25
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/12/2010 10:15
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 47.6

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	0.39	0.0078	mg/Kg		^	10	6020
7440-36-0	Antimony	ND	0.39	0.13	mg/Kg		^	10	6020
7440-39-3	Barium	4.9	0.39	0.029	mg/Kg		^	10	6020
7440-41-7	Beryllium	ND	0.39	0.013	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.39	0.0091	mg/Kg			10	6020
7440-47-3	Chromium	1.5	0.39	0.078	mg/Kg		^	10	6020
7439-92-1	Lead	6.8	0.39	0.020	mg/Kg			10	6020
7440-48-4	Cobalt	0.84	0.39	0.010	mg/Kg		^	10	6020
7440-50-8	Copper	0.46	0.39	0.063	mg/Kg		^	10	6020
7439-89-6	Iron	140	39	6.7	mg/Kg			10	6020
7439-96-5	Manganese	14	0.98	0.31	mg/Kg		^	10	6020
7440-02-0	Nickel	9.0	0.39	0.072	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.98	0.0078	mg/Kg			10	6020
7440-22-4	Silver	ND	0.39	0.0080	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.78	0.078	mg/Kg			10	6020
7440-62-2	Vanadium	ND	0.39	0.052	mg/Kg			10	6020
7440-66-6	Zinc	ND	1.4	0.29	mg/Kg		^	10	6020
7429-90-5	Aluminum	ND	59	5.9	mg/Kg			10	6020
7439-95-4	Magnesium	590	200	5.2	mg/Kg			10	6020
7440-09-7	Potassium	230	200	6.5	mg/Kg			10	6020
7440-23-5	Sodium	ND	200	77	mg/Kg			10	6020
7440-70-2	Calcium	600	200	17	mg/Kg			10	6020
7439-97-6	Mercury	4300	1800	570	mg/Kg			50000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 11SMSS
Lab Sample ID: 580-19399-26
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/09/2010 10:11
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 97.1

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	0.20	0.0040	mg/Kg		^	10	6020
7440-36-0	Antimony	ND	0.20	0.066	mg/Kg		^	10	6020
7440-39-3	Barium	13	0.20	0.015	mg/Kg		^	10	6020
7440-41-7	Beryllium	ND	0.20	0.0069	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.20	0.0047	mg/Kg			10	6020
7440-47-3	Chromium	0.53	0.20	0.040	mg/Kg		^	10	6020
7439-92-1	Lead	1.3	0.20	0.010	mg/Kg			10	6020
7440-48-4	Cobalt	0.32	0.20	0.0054	mg/Kg		^	10	6020
7440-50-8	Copper	2.2	0.20	0.032	mg/Kg		^	10	6020
7439-89-6	Iron	79	20	3.5	mg/Kg			10	6020
7439-96-5	Manganese	35	0.50	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	2.8	0.20	0.037	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.50	0.0040	mg/Kg			10	6020
7440-22-4	Silver	ND	0.20	0.0041	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.40	0.040	mg/Kg			10	6020
7440-62-2	Vanadium	ND	0.20	0.027	mg/Kg			10	6020
7440-66-6	Zinc	2.9	0.70	0.15	mg/Kg		^	10	6020
7429-90-5	Aluminum	63	30	3.0	mg/Kg			10	6020
7439-95-4	Magnesium	180	100	2.7	mg/Kg			10	6020
7440-09-7	Potassium	180	100	3.3	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	39	mg/Kg			10	6020
7440-70-2	Calcium	140	100	8.9	mg/Kg			10	6020
7439-97-6	Mercury	45	5.7	1.8	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 12SMSS
Lab Sample ID: 580-19399-27
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/09/2010 10:25
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 88.1

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	0.22	0.0044	mg/Kg		^	10	6020
7440-36-0	Antimony	ND	0.22	0.073	mg/Kg		^	10	6020
7440-39-3	Barium	7.4	0.22	0.016	mg/Kg		^	10	6020
7440-41-7	Beryllium	ND	0.22	0.0076	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.22	0.0052	mg/Kg			10	6020
7440-47-3	Chromium	0.56	0.22	0.044	mg/Kg		^	10	6020
7439-92-1	Lead	0.94	0.22	0.012	mg/Kg			10	6020
7440-48-4	Cobalt	0.31	0.22	0.0059	mg/Kg		^	10	6020
7440-50-8	Copper	1.5	0.22	0.036	mg/Kg		^	10	6020
7439-89-6	Iron	190	22	3.8	mg/Kg			10	6020
7439-96-5	Manganese	12	0.55	0.17	mg/Kg		^	10	6020
7440-02-0	Nickel	2.3	0.22	0.041	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.55	0.0044	mg/Kg			10	6020
7440-22-4	Silver	ND	0.22	0.0045	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.44	0.044	mg/Kg			10	6020
7440-62-2	Vanadium	0.45	0.22	0.030	mg/Kg			10	6020
7440-66-6	Zinc	2.0	0.77	0.17	mg/Kg		^	10	6020
7429-90-5	Aluminum	220	33	3.3	mg/Kg			10	6020
7439-95-4	Magnesium	170	110	2.9	mg/Kg			10	6020
7440-09-7	Potassium	130	110	3.7	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	43	mg/Kg			10	6020
7440-70-2	Calcium	ND	110	9.8	mg/Kg			10	6020
7439-97-6	Mercury	50	9.0	2.8	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 13SMSS
Lab Sample ID: 580-19399-28
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/10/2010 08:15
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 85.9

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	8.8	0.20	0.0040	mg/Kg		^	10	6020
7440-36-0	Antimony	0.34	0.20	0.065	mg/Kg		^	10	6020
7440-39-3	Barium	210	0.20	0.015	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.51	0.20	0.0068	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.20	0.0046	mg/Kg			10	6020
7440-47-3	Chromium	320	0.20	0.040	mg/Kg		^	10	6020
7439-92-1	Lead	29	0.20	0.010	mg/Kg			10	6020
7440-48-4	Cobalt	82	0.20	0.0053	mg/Kg		^	10	6020
7440-50-8	Copper	29	0.20	0.032	mg/Kg		^	10	6020
7439-89-6	Iron	50000	20	3.4	mg/Kg			10	6020
7439-96-5	Manganese	980	0.50	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	1100	0.20	0.036	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.50	0.0040	mg/Kg			10	6020
7440-22-4	Silver	ND	0.20	0.0041	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.40	0.040	mg/Kg			10	6020
7440-62-2	Vanadium	46	0.20	0.026	mg/Kg			10	6020
7440-66-6	Zinc	57	0.69	0.15	mg/Kg		^	10	6020
7429-90-5	Aluminum	11000	30	3.0	mg/Kg			10	6020
7439-95-4	Magnesium	18000	99	2.6	mg/Kg			10	6020
7440-09-7	Potassium	1200	99	3.3	mg/Kg			10	6020
7440-23-5	Sodium	ND	99	39	mg/Kg			10	6020
7440-70-2	Calcium	1100	99	8.8	mg/Kg			10	6020
7439-97-6	Mercury	140	6.6	2.1	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 14SMSS
Lab Sample ID: 580-19399-29
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/10/2010 08:30
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 84.8

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	5.4	0.23	0.0045	mg/Kg		^	10	6020
7440-36-0	Antimony	0.26	0.23	0.074	mg/Kg		^	10	6020
7440-39-3	Barium	120	0.23	0.017	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.35	0.23	0.0078	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.23	0.0053	mg/Kg			10	6020
7440-47-3	Chromium	470	0.23	0.045	mg/Kg		^	10	6020
7439-92-1	Lead	5.0	0.23	0.012	mg/Kg			10	6020
7440-48-4	Cobalt	130	0.23	0.0060	mg/Kg		^	10	6020
7440-50-8	Copper	15	0.23	0.036	mg/Kg		^	10	6020
7439-89-6	Iron	65000	23	3.9	mg/Kg			10	6020
7439-96-5	Manganese	1000	0.56	0.18	mg/Kg		^	10	6020
7440-02-0	Nickel	1900	0.23	0.041	mg/Kg		^	10	6020
7782-49-2	Selenium	0.92	0.56	0.0045	mg/Kg			10	6020
7440-22-4	Silver	ND	0.23	0.0046	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.45	0.045	mg/Kg			10	6020
7440-62-2	Vanadium	43	0.23	0.030	mg/Kg			10	6020
7440-66-6	Zinc	44	0.79	0.17	mg/Kg		^	10	6020
7429-90-5	Aluminum	12000	34	3.4	mg/Kg			10	6020
7439-95-4	Magnesium	16000	110	3.0	mg/Kg			10	6020
7440-09-7	Potassium	1100	110	3.7	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	44	mg/Kg			10	6020
7440-70-2	Calcium	800	110	10	mg/Kg			10	6020
7439-97-6	Mercury	64	6.7	2.1	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 15SMSS
Lab Sample ID: 580-19399-30
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/10/2010 08:45
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 93.8

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	14	0.20	0.0041	mg/Kg		^	10	6020
7440-36-0	Antimony	0.42	0.20	0.067	mg/Kg		^	10	6020
7440-39-3	Barium	190	0.20	0.015	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.59	0.20	0.0070	mg/Kg			10	6020
7440-43-9	Cadmium	0.20	0.20	0.0048	mg/Kg			10	6020
7440-47-3	Chromium	120	0.20	0.041	mg/Kg		^	10	6020
7439-92-1	Lead	20	0.20	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	27	0.20	0.0054	mg/Kg		^	10	6020
7440-50-8	Copper	41	0.20	0.033	mg/Kg		^	10	6020
7439-89-6	Iron	41000	20	3.5	mg/Kg			10	6020
7439-96-5	Manganese	610	0.51	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	290	0.20	0.037	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.51	0.0041	mg/Kg			10	6020
7440-22-4	Silver	ND	0.20	0.0042	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.41	0.041	mg/Kg			10	6020
7440-62-2	Vanadium	54	0.20	0.027	mg/Kg			10	6020
7440-66-6	Zinc	97	0.71	0.15	mg/Kg		^	10	6020
7429-90-5	Aluminum	16000	31	3.1	mg/Kg			10	6020
7439-95-4	Magnesium	13000	100	2.7	mg/Kg			10	6020
7440-09-7	Potassium	1700	100	3.4	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	40	mg/Kg			10	6020
7440-70-2	Calcium	2200	100	9.0	mg/Kg			10	6020
7439-97-6	Mercury	3.4	0.12	0.036	mg/Kg			10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 16SMSS
Lab Sample ID: 580-19399-31
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/10/2010 08:55
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 82.9

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	6.2	0.22	0.0044	mg/Kg		^	10	6020
7440-36-0	Antimony	0.81	0.22	0.073	mg/Kg		^	10	6020
7440-39-3	Barium	130	0.22	0.016	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.37	0.22	0.0077	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.22	0.0052	mg/Kg			10	6020
7440-47-3	Chromium	460	0.22	0.044	mg/Kg		^	10	6020
7439-92-1	Lead	5.2	0.22	0.012	mg/Kg			10	6020
7440-48-4	Cobalt	140	0.22	0.0059	mg/Kg		^	10	6020
7440-50-8	Copper	13	0.22	0.036	mg/Kg		^	10	6020
7439-89-6	Iron	76000	22	3.8	mg/Kg			10	6020
7439-96-5	Manganese	1000	0.55	0.18	mg/Kg		^	10	6020
7440-02-0	Nickel	2200	0.22	0.041	mg/Kg		^	10	6020
7782-49-2	Selenium	0.81	0.55	0.0044	mg/Kg			10	6020
7440-22-4	Silver	ND	0.22	0.0045	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.44	0.044	mg/Kg			10	6020
7440-62-2	Vanadium	39	0.22	0.030	mg/Kg			10	6020
7440-66-6	Zinc	48	0.78	0.17	mg/Kg		^	10	6020
7429-90-5	Aluminum	12000	33	3.3	mg/Kg			10	6020
7439-95-4	Magnesium	20000	110	2.9	mg/Kg			10	6020
7440-09-7	Potassium	960	110	3.7	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	43	mg/Kg			10	6020
7440-70-2	Calcium	630	110	9.8	mg/Kg			10	6020
7439-97-6	Mercury	110	8.6	2.7	mg/Kg			500	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 17SMSS
Lab Sample ID: 580-19399-32
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/10/2010 09:05
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 86.2

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	4.8	0.21	0.0042	mg/Kg		^	10	6020
7440-36-0	Antimony	0.79	0.21	0.069	mg/Kg		^	10	6020
7440-39-3	Barium	130	0.21	0.016	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.33	0.21	0.0073	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.21	0.0049	mg/Kg			10	6020
7440-47-3	Chromium	540	0.21	0.042	mg/Kg		^	10	6020
7439-92-1	Lead	7.6	0.21	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	160	0.21	0.0056	mg/Kg		^	10	6020
7440-50-8	Copper	14	0.21	0.034	mg/Kg		^	10	6020
7439-89-6	Iron	76000	21	3.6	mg/Kg			10	6020
7439-96-5	Manganese	1200	0.53	0.17	mg/Kg		^	10	6020
7440-02-0	Nickel	1900	0.21	0.039	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.53	0.0042	mg/Kg			10	6020
7440-22-4	Silver	ND	0.21	0.0043	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.42	0.042	mg/Kg			10	6020
7440-62-2	Vanadium	37	0.21	0.028	mg/Kg			10	6020
7440-66-6	Zinc	46	0.74	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	11000	32	3.2	mg/Kg			10	6020
7439-95-4	Magnesium	9200	110	2.8	mg/Kg			10	6020
7440-09-7	Potassium	1200	110	3.5	mg/Kg			10	6020
7440-23-5	Sodium	110	110	41	mg/Kg			10	6020
7440-70-2	Calcium	670	110	9.3	mg/Kg			10	6020
7439-97-6	Mercury	18	1.4	0.45	mg/Kg			100	7471A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	ICV 580-64718/7 05/27/2010 14:16				CCV 580-64718/44 05/27/2010 18:44				CCV 580-64718/56 05/27/2010 20:10			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.398		0.400	99	0.506		0.500	101	0.504		0.500	101
Antimony	0.0398		0.0400	99	0.0510		0.0500	102	0.0519		0.0500	104
Arsenic	0.0393		0.0400	98	0.0506		0.0500	101	0.0527		0.0500	105
Barium	0.0390		0.0400	98	0.0513		0.0500	103	0.0524		0.0500	105
Cadmium	0.0402		0.0400	100	0.0502		0.0500	100	0.0525		0.0500	105
Calcium	ND		4.00	101	ND		5.00	103	ND		5.00	104
Chromium	0.0402		0.0400	100	0.0524		0.0500	105	0.0524		0.0500	105
Cobalt	0.0404		0.0400	101	0.0528		0.0500	106	0.0528		0.0500	106
Iron	4.05		4.00	101	5.14		5.00	103	5.21		5.00	104
Lead	0.0410		0.0400	103	0.0521		0.0500	104	0.0528		0.0500	106
Magnesium	4.10		4.00	102	5.07		5.00	101	5.07		5.00	101
Manganese	0.0402		0.0400	100	0.0533		0.0500	107	0.0531		0.0500	106
Potassium	ND		4.00	102	ND		5.00	104	ND		5.00	105
Silver	0.0399		0.0400	100	0.0510		0.0500	102	0.0517		0.0500	103
Sodium	ND		4.00	101	ND		5.00	99	ND		5.00	100
Thallium	0.0405		0.0400	101	0.0514		0.0500	103	0.0526		0.0500	105
Vanadium	0.0395		0.0400	99	0.0515		0.0500	103	0.0520		0.0500	104
Beryllium	0.0402		0.0400	101	0.0525		0.0500	105	0.0531		0.0500	106
Copper	0.0405		0.0400	101	0.0529		0.0500	106	0.0531		0.0500	106
Nickel	0.0410		0.0400	103	0.0524		0.0500	105	0.0535		0.0500	107
Selenium	0.0399		0.0400	100	0.0462		0.0500	92	0.0525		0.0500	105
Zinc	0.0406		0.0400	101	0.0526		0.0500	105	0.0532		0.0500	106

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	CCV 580-64718/68 05/27/2010 21:35				CCV 580-64718/76 05/27/2010 22:32				CCV 580-64718/105 05/28/2010 02:00			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.513		0.500	103	0.500		0.500	100	0.493		0.500	99
Antimony	0.0524		0.0500	105	0.0527		0.0500	105	0.0533		0.0500	107
Arsenic	0.0520		0.0500	104	0.0514		0.0500	103	0.0520		0.0500	104
Barium	0.0528		0.0500	106	0.0537		0.0500	107	0.0543		0.0500	109
Cadmium	0.0522		0.0500	104	0.0515		0.0500	103	0.0526		0.0500	105
Calcium	ND		5.00	104	ND		5.00	104	ND		5.00	105
Chromium	0.0535		0.0500	107	0.0532		0.0500	106	0.0530		0.0500	106
Cobalt	0.0538		0.0500	108	0.0532		0.0500	106	0.0534		0.0500	107
Iron	5.20		5.00	104	5.17		5.00	103	5.12		5.00	102
Lead	0.0528		0.0500	106	0.0529		0.0500	106	0.0536		0.0500	107
Magnesium	5.14		5.00	103	5.13		5.00	103	5.04		5.00	101
Manganese	0.0540		0.0500	108	0.0539		0.0500	108	0.0539		0.0500	108
Potassium	ND		5.00	107	ND		5.00	105	ND		5.00	104
Silver	0.0522		0.0500	104	0.0518		0.0500	104	0.0524		0.0500	105
Sodium	ND		5.00	100	ND		5.00	100	ND		5.00	100
Thallium	0.0518		0.0500	104	0.0518		0.0500	104	0.0529		0.0500	106
Vanadium	0.0525		0.0500	105	0.0523		0.0500	105	0.0526		0.0500	105
Beryllium	0.0530		0.0500	106	0.0512		0.0500	102	0.0554		0.0500	111
Copper	0.0542		0.0500	108	0.0539		0.0500	108	0.0536		0.0500	107
Nickel	0.0559		0.0500	112	0.0541		0.0500	108	0.0538		0.0500	108
Selenium	0.0592		0.0500	118	0.0501		0.0500	100	0.0548		0.0500	110
Zinc	0.0548		0.0500	110	0.0548		0.0500	110	0.0545		0.0500	109

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	CCV 580-64718/117 05/28/2010 03:25				CCV 580-64718/129 05/28/2010 04:50				CCV 580-64718/149 05/28/2010 07:14			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.491		0.500	98	0.493		0.500	99	0.488		0.500	98
Antimony	0.0532		0.0500	106	0.0531		0.0500	106	0.0520		0.0500	104
Arsenic	0.0519		0.0500	104	0.0519		0.0500	104	0.0514		0.0500	103
Barium	0.0538		0.0500	108	0.0545		0.0500	109	0.0529		0.0500	106
Cadmium	0.0517		0.0500	103	0.0523		0.0500	105	0.0518		0.0500	104
Calcium	ND		5.00	104	ND		5.00	104	ND		5.00	101
Chromium	0.0530		0.0500	106	0.0526		0.0500	105	0.0529		0.0500	106
Cobalt	0.0539		0.0500	108	0.0534		0.0500	107	0.0539		0.0500	108
Iron	5.15		5.00	103	5.17		5.00	103	5.13		5.00	103
Lead	0.0531		0.0500	106	0.0529		0.0500	106	0.0532		0.0500	106
Magnesium	5.09		5.00	102	5.10		5.00	102	5.05		5.00	101
Manganese	0.0538		0.0500	108	0.0532		0.0500	106	0.0535		0.0500	107
Potassium	ND		5.00	106	ND		5.00	103	ND		5.00	102
Silver	0.0522		0.0500	104	0.0525		0.0500	105	0.0516		0.0500	103
Sodium	ND		5.00	101	ND		5.00	100	ND		5.00	99
Thallium	0.0529		0.0500	106	0.0519		0.0500	104	0.0534		0.0500	107
Vanadium	0.0530		0.0500	106	0.0525		0.0500	105	0.0529		0.0500	106
Beryllium	0.0540		0.0500	108	0.0509		0.0500	102	0.0517		0.0500	103
Copper	0.0538		0.0500	108	0.0538		0.0500	108	0.0544		0.0500	109
Nickel	0.0540		0.0500	108	0.0548		0.0500	110	0.0540		0.0500	108
Selenium	0.0512		0.0500	102	0.0497		0.0500	99	0.0520		0.0500	104
Zinc	0.0541		0.0500	108	0.0529		0.0500	106	0.0550		0.0500	110

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	CCV 580-64718/161 05/28/2010 08:39											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.505		0.500	101								
Antimony	0.0515		0.0500	103								
Arsenic	0.0517		0.0500	103								
Barium	0.0525		0.0500	105								
Cadmium	0.0511		0.0500	102								
Calcium	ND		5.00	104								
Chromium	0.0541		0.0500	108								
Cobalt	0.0548		0.0500	110								
Iron	5.23		5.00	105								
Lead	0.0533		0.0500	107								
Magnesium	5.16		5.00	103								
Manganese	0.0540		0.0500	108								
Potassium	ND		5.00	104								
Silver	0.0517		0.0500	103								
Sodium	ND		5.00	100								
Thallium	0.0524		0.0500	105								
Vanadium	0.0534		0.0500	107								
Beryllium	0.0519		0.0500	104								
Copper	0.0561		0.0500	112								
Nickel	0.0554		0.0500	111								
Selenium	0.0518		0.0500	104								
Zinc	0.0548		0.0500	110								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	ICV 580-64756/7 05/28/2010 11:58				CCV 580-64756/44 05/28/2010 16:07				CCV 580-64756/56 05/28/2010 17:21			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Beryllium	0.0395		0.0400	99	0.0492		0.0500	98	0.0494		0.0500	99
Copper	0.0407		0.0400	102	0.0523		0.0500	105	0.0526		0.0500	105
Nickel	0.0403		0.0400	101	0.0524		0.0500	105	0.0517		0.0500	103
Selenium	0.0400		0.0400	100	0.0484		0.0500	97	0.0489		0.0500	98
Zinc	0.0401		0.0400	100	0.0512		0.0500	102	0.0515		0.0500	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	CCV 580-64756/68 05/28/2010 18:34				CCV 580-64756/76 05/28/2010 19:22				CCV 580-64756/105 05/28/2010 22:21			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Beryllium	0.0492		0.0500	98	0.0482		0.0500	96	0.0502		0.0500	100
Copper	0.0529		0.0500	106	0.0534		0.0500	107	0.0523		0.0500	105
Nickel	0.0537		0.0500	107	0.0537		0.0500	107	0.0516		0.0500	103
Selenium	0.0479		0.0500	96	0.0507		0.0500	101	0.0500		0.0500	100
Zinc	0.0515		0.0500	103	0.0528		0.0500	106	0.0513		0.0500	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	CCV 580-64756/117 05/28/2010 23:34				CCV 580-64756/129 05/29/2010 00:48				CCV 580-64756/137 05/29/2010 01:37			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Beryllium	0.0492		0.0500	98	0.0474		0.0500	95	0.0470		0.0500	94
Copper	0.0518		0.0500	104	0.0522		0.0500	104	0.0527		0.0500	105
Nickel	0.0507		0.0500	101	0.0524		0.0500	105	0.0537		0.0500	107
Selenium	0.0483		0.0500	97	0.0497		0.0500	99	0.0487		0.0500	97
Zinc	0.0505		0.0500	101	0.0520		0.0500	104	0.0518		0.0500	104

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	CCV 580-64756/149 05/29/2010 02:51				CCV 580-64756/161 05/29/2010 04:04							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Beryllium	0.0473		0.0500	95	0.0473		0.0500	95				
Copper	0.0521		0.0500	104	0.0513		0.0500	103				
Nickel	0.0508		0.0500	102	0.0514		0.0500	103				
Selenium	0.0465		0.0500	93	0.0473		0.0500	95				
Zinc	0.0515		0.0500	103	0.0502		0.0500	100				

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICV Source: Hg_CAL_WORK_00002 Concentration Units: mg/L

CCV Source: Hg_CAL_WORK_00002

Analyte	ICV 580-64554/19 05/27/2010 10:01				CCV 580-64554/21 05/27/2010 12:44				CCV 580-64554/31 05/27/2010 13:42			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00419		0.00400	105	0.00480		0.00500	96	0.00538		0.00500	108

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICV Source: Hg_CAL_WORK_00002 Concentration Units: mg/L

CCV Source: Hg_CAL_WORK_00002

Analyte	CCV 580-64554/38 05/27/2010 14:36				CCV 580-64554/46 05/27/2010 15:25				CCV 580-64554/56 05/27/2010 16:26			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00514		0.00500	103	0.00525		0.00500	105	0.00513		0.00500	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICV Source: Hg_CAL_WORK_00002 Concentration Units: mg/L

CCV Source: Hg_CAL_WORK_00002

Analyte	ICV 580-64691/19 05/28/2010 07:56				CCV 580-64691/80 05/28/2010 15:03				CCV 580-64691/91 05/28/2010 15:54			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00424		0.00400	106	0.00513		0.00500	103	0.00513		0.00500	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICV Source: Hg_CAL_WORK_00002 Concentration Units: mg/L

CCV Source: Hg_CAL_WORK_00002

Analyte	CCV 580-64691/103 05/28/2010 16:46											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00519		0.00500	104								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Analysis Method: 6020 Instrument ID: SEA044

Lab Sample ID: CRI 580-64718/9 Concentration Units: mg/L

CRQL Check Standard Source: ICP-MS CCV_00004

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	0.00200	0.00193		96	50-150
Antimony	0.00200	0.00194		97	50-150
Barium	0.00200	0.00185		92	50-150
Beryllium	0.00200	0.00196		98	50-150
Cadmium	0.00200	0.00204		102	50-150
Chromium	0.00200	0.00202		101	50-150
Lead	0.00200	0.00204		102	50-150
Cobalt	0.00200	0.00209		104	50-150
Copper	0.00200	0.00211		106	50-150
Iron	0.200	0.202		101	50-150
Manganese	0.00200	0.00204		102	50-150
Nickel	0.00200	0.00226		113	50-150
Selenium	0.00200	0.00201		101	50-150
Silver	0.00200	0.00206		103	50-150
Thallium	0.00200	0.00209		104	50-150
Vanadium	0.00200	0.00191		96	50-150
Zinc	0.00200	0.00204		102	50-150
Aluminum	0.0200	ND		106	50-150
Magnesium	0.200	ND		106	50-150
Potassium	0.200	ND		110	50-150
Sodium	0.200	ND		108	50-150
Calcium	0.200	ND		99	50-150

Lab Sample ID: CRI 580-64756/9 Concentration Units: mg/L

CRQL Check Standard Source: ICP-MS CCV_00004

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Beryllium	0.00200	0.00200		100	50-150
Copper	0.00200	0.00216		108	50-150
Nickel	0.00200	0.00202		101	50-150
Selenium	0.00200	0.00190		95	50-150
Zinc	0.00200	0.00213		107	50-150

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 580-64718/8 05/27/2010 14:22		CCB 580-64718/45 05/27/2010 18:51		CCB 580-64718/57 05/27/2010 20:17		CCB 580-64718/69 05/27/2010 21:43	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.080	ND		ND		ND		ND	
Antimony	0.00040	ND		ND		ND		ND	
Arsenic	0.00040	ND		ND		ND		ND	
Barium	0.00040	ND		ND		ND		ND	
Cadmium	0.00040	ND		ND		ND		ND	
Calcium	10	ND		ND		ND		ND	
Chromium	0.00040	ND		ND		ND		ND	
Cobalt	0.00040	ND		ND		ND		ND	
Iron	0.010	ND		ND		ND		ND	
Lead	0.00040	ND		ND		ND		ND	
Magnesium	0.80	ND		ND		ND		ND	
Manganese	0.00040	ND		ND		ND		ND	
Potassium	10	ND		ND		ND		ND	
Silver	0.00040	ND		ND		ND		ND	
Sodium	10	ND		ND		ND		ND	
Thallium	0.00040	ND		ND		0.000592		ND	
Vanadium	0.00040	ND		ND		ND		ND	
Beryllium	0.00040	ND		ND				ND	
Copper	0.0010	ND		ND				ND	
Nickel	0.00040	ND		ND				ND	
Selenium	0.00040	ND		ND				ND	
Zinc	0.0010	ND		ND				ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 580-64718/77 05/27/2010 22:39		CCB 580-64718/106 05/28/2010 02:07		CCB 580-64718/118 05/28/2010 03:32		CCB 580-64718/130 05/28/2010 04:58	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.080	ND		ND		ND		ND	
Antimony	0.00040	ND		ND		ND		ND	
Arsenic	0.00040	ND		ND		ND		ND	
Barium	0.00040	ND		ND		ND		ND	
Cadmium	0.00040	ND		ND		ND		ND	
Calcium	10	ND		ND		ND		ND	
Chromium	0.00040	ND		ND		ND		ND	
Cobalt	0.00040	ND		ND		ND		ND	
Iron	0.010	ND		ND		ND		ND	
Lead	0.00040	ND		ND		ND		ND	
Magnesium	0.80	ND		ND		ND		ND	
Manganese	0.00040	ND		ND		ND		ND	
Potassium	10	ND		ND		ND		ND	
Silver	0.00040	ND		ND		ND		ND	
Sodium	10	ND		ND		ND		ND	
Thallium	0.00040	ND		ND		0.000685		0.000425	
Vanadium	0.00040	ND		ND		ND		ND	
Beryllium	0.00040	ND		ND		ND		ND	
Copper	0.0010	ND		ND		ND		ND	
Nickel	0.00040	ND		ND		ND		ND	
Selenium	0.00040	ND		ND		ND		ND	
Zinc	0.0010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 580-64718/138 05/28/2010 05:55		CCB 580-64718/150 05/28/2010 07:21		CCB 580-64718/162 05/28/2010 08:46			
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.080	ND		ND		ND			
Antimony	0.00040	ND		ND		ND			
Arsenic	0.00040	ND		ND		ND			
Barium	0.00040	ND		ND		ND			
Cadmium	0.00040	ND		ND		ND			
Calcium	10	ND		ND		ND			
Chromium	0.00040	ND		ND		ND			
Cobalt	0.00040	ND		ND		ND			
Iron	0.010	ND		ND		ND			
Lead	0.00040	ND		ND		ND			
Magnesium	0.80	ND		ND		ND			
Manganese	0.00040	ND		ND		ND			
Potassium	10	ND		ND		ND			
Silver	0.00040	ND		ND		ND			
Sodium	10	ND		ND		ND			
Thallium	0.00040	ND		0.000700		ND			
Vanadium	0.00040	ND		ND		ND			
Beryllium	0.00040	ND		ND		ND			
Copper	0.0010	ND		ND		ND			
Nickel	0.00040	ND		ND		ND			
Selenium	0.00040	ND		ND		ND			
Zinc	0.0010	ND		ND		ND			

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 580-64756/8 05/28/2010 12:04		CCB 580-64756/45 05/28/2010 16:13		CCB 580-64756/57 05/28/2010 17:27		CCB 580-64756/69 05/28/2010 18:40	
		Found	C	Found	C	Found	C	Found	C
Beryllium	0.00040	ND		ND		ND		ND	
Copper	0.0010	ND		ND		ND		ND	
Nickel	0.00040	ND		ND		ND		0.000486	
Selenium	0.00040	ND		ND		ND		ND	
Zinc	0.0010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 580-64756/77 05/28/2010 19:29		CCB 580-64756/106 05/28/2010 22:27		CCB 580-64756/118 05/28/2010 23:41		CCB 580-64756/130 05/29/2010 00:54	
		Found	C	Found	C	Found	C	Found	C
Beryllium	0.00040	ND		ND		ND		ND	
Copper	0.0010	ND		ND		ND		ND	
Nickel	0.00040	0.000412		ND		ND		ND	
Selenium	0.00040	ND		ND		ND		ND	
Zinc	0.0010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 580-64756/138 05/29/2010 01:43		CCB 580-64756/150 05/29/2010 02:57		CCB 580-64756/162 05/29/2010 04:10			
		Found	C	Found	C	Found	C	Found	C
Beryllium	0.00040	ND		ND		ND			
Copper	0.0010	ND		ND		ND			
Nickel	0.00040	ND		ND		ND			
Selenium	0.00040	ND		ND		ND			
Zinc	0.0010	ND		ND		ND			

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 580-64554/20 05/27/2010 10:05		CCB 580-64554/22 05/27/2010 12:49		CCB 580-64554/32 05/27/2010 13:46		CCB 580-64554/39 05/27/2010 14:40	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 580-64554/47 05/27/2010 15:30		CCB 580-64554/57 05/27/2010 16:30					
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND					

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 580-64691/20 05/28/2010 08:01		CCB 580-64691/81 05/28/2010 15:08		CCB 580-64691/92 05/28/2010 15:58		CCB 580-64691/104 05/28/2010 16:51	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 580-64691/109 05/28/2010 17:13							
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND							

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64514/21-A

Instrument Code: SEA044 Batch No.: 64718

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	ND		^	6020
7440-36-0	Antimony	ND		^	6020
7440-39-3	Barium	ND		^	6020
7440-43-9	Cadmium	ND			6020
7440-47-3	Chromium	ND		^	6020
7439-92-1	Lead	ND			6020
7440-48-4	Cobalt	ND		^	6020
7439-89-6	Iron	ND			6020
7439-96-5	Manganese	ND		^	6020
7440-22-4	Silver	ND			6020
7440-28-0	Thallium	ND			6020
7440-62-2	Vanadium	ND			6020
7429-90-5	Aluminum	ND			6020
7439-95-4	Magnesium	ND			6020
7440-09-7	Potassium	ND			6020
7440-23-5	Sodium	ND			6020
7440-70-2	Calcium	ND			6020

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64536/21-A

Instrument Code: SEA044 Batch No.: 64718

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	ND		^	6020
7440-36-0	Antimony	ND		^	6020
7440-39-3	Barium	ND		^	6020
7440-43-9	Cadmium	ND			6020
7440-47-3	Chromium	ND		^	6020
7439-92-1	Lead	ND			6020
7440-48-4	Cobalt	ND		^	6020
7439-89-6	Iron	ND			6020
7439-96-5	Manganese	ND		^	6020
7440-22-4	Silver	ND			6020
7440-28-0	Thallium	ND			6020
7440-62-2	Vanadium	ND			6020
7429-90-5	Aluminum	ND			6020
7439-95-4	Magnesium	ND			6020
7440-09-7	Potassium	ND			6020
7440-23-5	Sodium	ND			6020
7440-70-2	Calcium	ND			6020

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64541/21-A

Instrument Code: SEA044 Batch No.: 64718

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	ND		^	6020
7440-36-0	Antimony	ND		^	6020
7440-39-3	Barium	ND		^	6020
7440-43-9	Cadmium	ND			6020
7440-47-3	Chromium	ND		^	6020
7439-92-1	Lead	ND			6020
7440-48-4	Cobalt	ND		^	6020
7439-89-6	Iron	ND			6020
7439-96-5	Manganese	ND		^	6020
7440-22-4	Silver	ND			6020
7440-28-0	Thallium	ND			6020
7440-62-2	Vanadium	ND			6020
7429-90-5	Aluminum	ND			6020
7439-95-4	Magnesium	ND			6020
7440-09-7	Potassium	ND			6020
7440-23-5	Sodium	ND			6020
7440-70-2	Calcium	ND			6020

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64514/21-A

Instrument Code: SEA044 Batch No.: 64756

CAS No.	Analyte	Concentration	C	Q	Method
7440-41-7	Beryllium	ND			6020
7440-50-8	Copper	ND		^	6020
7440-02-0	Nickel	ND		^	6020
7782-49-2	Selenium	ND			6020
7440-66-6	Zinc	ND		^	6020

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64536/21-A

Instrument Code: SEA044 Batch No.: 64756

CAS No.	Analyte	Concentration	C	Q	Method
7440-41-7	Beryllium	ND			6020
7440-50-8	Copper	ND		^	6020
7440-02-0	Nickel	ND		^	6020
7782-49-2	Selenium	ND			6020
7440-66-6	Zinc	ND		^	6020

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64541/21-A

Instrument Code: SEA044 Batch No.: 64756

CAS No.	Analyte	Concentration	C	Q	Method
7440-41-7	Beryllium	ND			6020
7440-50-8	Copper	ND		^	6020
7440-02-0	Nickel	ND		^	6020
7782-49-2	Selenium	ND			6020
7440-66-6	Zinc	ND		^	6020

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64500/24-A

Instrument Code: SEA029 Batch No.: 64554

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7471A

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64512/19-A

Instrument Code: SEA029 Batch No.: 64691

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7471A

FORM III-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Lab Sample ID: ICSA 580-64718/10 Instrument ID: SEA044

Lab File ID: 018SMPL.D ICS Source: ICPMS- ICSA_00001

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**100**	**92.6**	**93**
Antimony		**0.0007**	
Arsenic		**0.0004**	
Barium		**0.0005**	
Cadmium		**0.0002**	
Calcium	**300**	**282**	**94**
Chromium		**0.0011**	
Cobalt		**0.0036**	
Iron	**250**	**229**	**92**
Lead		**0.0003**	
Magnesium	**100**	**96.1**	**96**
Manganese		**0.0051**	
Potassium	**100**	**96.1**	**96**
Silver		**0.0002**	
Sodium	**250**	**245**	**98**
Thallium		**0.0001**	
Vanadium		**0.0000**	
Beryllium		*0.0000*	
Copper		*0.0035*	
Mercury		*0.0000*	
Molybdenum	*2.00*	*2.09*	*104*
Nickel		*0.0025*	
Phosphorus	*100*	*101*	*101*
Selenium		*0.0004*	
Strontium		*0.0175*	
Tin		*0.0001*	
Titanium	*2.00*	*1.98*	*99*
Uranium		*0.0000*	
Zinc		*0.0033*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Lab Sample ID: ICSAB 580-64718/11 Instrument ID: SEA044

Lab File ID: 019SMPL.D ICS Source: ICPMS- ICSA_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**100**	**94.0**	**94**
Antimony		**0.0008**	
Arsenic	**0.100**	**0.108**	**108**
Barium		**0.0004**	
Cadmium	**0.100**	**0.105**	**105**
Calcium	**300**	**285**	**95**
Chromium	**0.200**	**0.199**	**100**
Cobalt	**0.200**	**0.200**	**100**
Iron	**250**	**233**	**93**
Lead		**0.0003**	
Magnesium	**100**	**99.0**	**99**
Manganese	**0.200**	**0.200**	**100**
Potassium	**100**	**97.5**	**98**
Silver	**0.0500**	**0.0508**	**102**
Sodium	**250**	**252**	**101**
Thallium		**0.0001**	
Vanadium	**0.200**	**0.205**	**102**
Beryllium		*0.0000*	
Copper	*0.200*	*0.191*	*95*
Mercury		*0.0000*	
Molybdenum	*2.00*	*2.08*	*104*
Nickel	*0.200*	*0.196*	*98*
Phosphorus	*100*	*103*	*103*
Selenium	*0.100*	*0.102*	*102*
Strontium		*0.0172*	
Tin		*0.0001*	
Titanium	*2.00*	*1.98*	*99*
Uranium		*0.0000*	
Zinc	*0.100*	*0.0994*	*99*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Lab Sample ID: ICSAB 580-64718/11 Instrument ID: SEA044

Lab File ID: 019SMPL.D ICS Source: ICPMS-ICSB_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**100**	**94.0**	**94**
Antimony		**0.0008**	
Arsenic	**0.100**	**0.108**	**108**
Barium		**0.0004**	
Cadmium	**0.100**	**0.105**	**105**
Calcium	**300**	**285**	**95**
Chromium	**0.200**	**0.199**	**100**
Cobalt	**0.200**	**0.200**	**100**
Iron	**250**	**233**	**93**
Lead		**0.0003**	
Magnesium	**100**	**99.0**	**99**
Manganese	**0.200**	**0.200**	**100**
Potassium	**100**	**97.5**	**98**
Silver	**0.0500**	**0.0508**	**102**
Sodium	**250**	**252**	**101**
Thallium		**0.0001**	
Vanadium	**0.200**	**0.205**	**102**
Beryllium		*0.0000*	
Copper	*0.200*	*0.191*	*95*
Mercury		*0.0000*	
Molybdenum	*2.00*	*2.08*	*104*
Nickel	*0.200*	*0.196*	*98*
Phosphorus	*100*	*103*	*103*
Selenium	*0.100*	*0.102*	*102*
Strontium		*0.0172*	
Tin		*0.0001*	
Titanium	*2.00*	*1.98*	*99*
Uranium		*0.0000*	
Zinc	*0.100*	*0.0994*	*99*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Lab Sample ID: ICSA 580-64718/171 Instrument ID: SEA044

Lab File ID: 182SMPL.D ICS Source: ICPMS- ICSA_00001

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**100**	**89.8**	**90**
Antimony		**0.0007**	
Arsenic		**0.0004**	
Barium		**0.0005**	
Cadmium		**0.0002**	
Calcium	**300**	**293**	**98**
Chromium		**0.0012**	
Cobalt		**0.0039**	
Iron	**250**	**233**	**93**
Lead		**0.0003**	
Magnesium	**100**	**93.4**	**93**
Manganese		**0.0057**	
Potassium	**100**	**99.4**	**99**
Silver		**0.0002**	
Sodium	**250**	**238**	**95**
Thallium		**0.0002**	
Vanadium		**-0.0001**	
Beryllium		*0.0000*	
Copper		*0.0039*	
Mercury		*0.0039*	
Molybdenum	*2.00*	*2.18*	*109*
Nickel		*0.0029*	
Phosphorus	*100*	*98.6*	*99*
Selenium		*-0.0003*	
Strontium		*0.0184*	
Tin		*0.0001*	
Titanium	*2.00*	*2.08*	*104*
Uranium		*0.0000*	
Zinc		*0.0036*	

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Lab Sample ID: ICSAB 580-64718/172 Instrument ID: SEA044

Lab File ID: 183SMPL.D ICS Source: ICPMS- ICSA_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**100**	**91.9**	**92**
Antimony		**0.0008**	
Arsenic	**0.100**	**0.112**	**112**
Barium		**0.0005**	
Cadmium	**0.100**	**0.108**	**108**
Calcium	**300**	**298**	**99**
Chromium	**0.200**	**0.210**	**105**
Cobalt	**0.200**	**0.214**	**107**
Iron	**250**	**235**	**94**
Lead		**0.0003**	
Magnesium	**100**	**95.9**	**96**
Manganese	**0.200**	**0.212**	**106**
Potassium	**100**	**101**	**101**
Silver	**0.0500**	**0.0526**	**105**
Sodium	**250**	**243**	**97**
Thallium		**0.0001**	
Vanadium	**0.200**	**0.218**	**109**
Beryllium		*0.0000*	
Copper	*0.200*	*0.206*	*103*
Mercury		*0.0038*	
Molybdenum	*2.00*	*2.13*	*106*
Nickel	*0.200*	*0.210*	*105*
Phosphorus	*100*	*101*	*101*
Selenium	*0.100*	*0.111*	*111*
Strontium		*0.0179*	
Tin		*0.0001*	
Titanium	*2.00*	*2.08*	*104*
Uranium		*0.0000*	
Zinc	*0.100*	*0.105*	*105*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Lab Sample ID: ICSAB 580-64718/172 Instrument ID: SEA044

Lab File ID: 183SMPL.D ICS Source: ICPMS-ICSB_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**100**	**91.9**	**92**
Antimony		**0.0008**	
Arsenic	**0.100**	**0.112**	**112**
Barium		**0.0005**	
Cadmium	**0.100**	**0.108**	**108**
Calcium	**300**	**298**	**99**
Chromium	**0.200**	**0.210**	**105**
Cobalt	**0.200**	**0.214**	**107**
Iron	**250**	**235**	**94**
Lead		**0.0003**	
Magnesium	**100**	**95.9**	**96**
Manganese	**0.200**	**0.212**	**106**
Potassium	**100**	**101**	**101**
Silver	**0.0500**	**0.0526**	**105**
Sodium	**250**	**243**	**97**
Thallium		**0.0001**	
Vanadium	**0.200**	**0.218**	**109**
Beryllium		*0.0000*	
Copper	*0.200*	*0.206*	*103*
Mercury		*0.0038*	
Molybdenum	*2.00*	*2.13*	*106*
Nickel	*0.200*	*0.210*	*105*
Phosphorus	*100*	*101*	*101*
Selenium	*0.100*	*0.111*	*111*
Strontium		*0.0179*	
Tin		*0.0001*	
Titanium	*2.00*	*2.08*	*104*
Uranium		*0.0000*	
Zinc	*0.100*	*0.105*	*105*

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Lab Sample ID: ICSAB 580-64756/11 Instrument ID: SEA044

Lab File ID: 018SMPL.D ICS Source: ICPMS-ICSB_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Beryllium		**0.0000**	
Copper	**0.200**	**0.190**	**95**
Nickel	**0.200**	**0.194**	**97**
Selenium	**0.100**	**0.105**	**105**
Zinc	**0.100**	**0.0953**	**95**

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Lab Sample ID: ICSAB 580-64756/172 Instrument ID: SEA044

Lab File ID: 182SMPL.D ICS Source: ICPMS-ICSB_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Beryllium		**0.0000**	
Copper	**0.200**	**0.195**	**97**
Nickel	**0.200**	**0.196**	**98**
Selenium	**0.100**	**0.105**	**105**
Zinc	**0.100**	**0.0991**	**99**

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 01SMRT2 MS
Lab ID: 580-19399-14 MS
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 95.7

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	196		5.0		199	96	75-125	^	6020
Antimony	147		1.9		149	97	75-125	^	6020
Barium	325		130		199	99	75-125	^	6020
Beryllium	4.85		0.27		4.97	92	75-125		6020
Cadmium	5.65		0.43		4.97	105	75-125		6020
Chromium	1510		1500		19.9	238	75-125	^ 4	6020
Lead	609		620		49.7	-24	75-125	4	6020
Cobalt	118		68		49.7	100	75-125	^	6020
Copper	78.3		54		24.8	98	75-125	^	6020
Iron	133000		150000		1090	-1390	75-125	4	6020
Manganese	597		540		49.7	107	75-125	^ 4	6020
Nickel	783		740		49.7	95	75-125	^ 4	6020
Selenium	191		ND		199	96	75-125		6020
Silver	30.1		ND		29.8	101	75-125		6020
Thallium	199		ND		199	100	75-125		6020
Vanadium	110		61		49.7	97	75-125		6020
Zinc	833		790		49.7	80	75-125	^ 4	6020
Aluminum	11200		11000		199	226	75-125	4	6020
Magnesium	9020		8000		994	98	75-125	4	6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 16SMSS MS
Lab ID: 580-19399-31 MS
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 82.9

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	225		6.2		235	93	75-125	^	6020
Antimony	153		0.81		176	87	75-125	^	6020
Barium	354		130		235	95	75-125	^	6020
Beryllium	5.66		0.37		5.87	90	75-125		6020
Cadmium	5.87		ND		5.87	98	75-125		6020
Chromium	502		460		23.5	175	75-125	^ 4	6020
Lead	63.4		5.2		58.7	99	75-125		6020
Cobalt	198		140		58.7	104	75-125	^	6020
Copper	42.7		13		29.4	100	75-125	^	6020
Iron	75300		76000		1290	-69	75-125	4	6020
Manganese	1130		1000		58.7	213	75-125	^ 4	6020
Nickel	2440		2200		58.7	340	75-125	^ 4	6020
Selenium	206		0.81		235	87	75-125		6020
Silver	34.9		ND		35.2	99	75-125		6020
Thallium	230		ND		235	98	75-125		6020
Vanadium	94.5		39		58.7	94	75-125		6020
Zinc	105		48		58.7	98	75-125	^	6020
Aluminum	13000		12000		235	557	75-125	4	6020
Magnesium	21900		20000		1170	203	75-125	4	6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: 01SMRT2 MSD
Lab ID: 580-19399-14 MSD
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 95.7

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	204		197	101	75-125	4	35	^	6020
Antimony	153		148	103	75-125	4	35	^	6020
Barium	333		197	104	75-125	2	35	^	6020
Beryllium	5.12		4.92	99	75-125	5	35		6020
Cadmium	5.71		4.92	107	75-125	1	35		6020
Chromium	1530		19.7	356	75-125	1	35	^ 4	6020
Lead	626		49.2	9	75-125	3	35	4	6020
Cobalt	120		49.2	105	75-125	2	35	^	6020
Copper	80.0		24.6	106	75-125	2	35	^	6020
Iron	138000		1080	-924	75-125	4	35	4	6020
Manganese	606		49.2	127	75-125	2	35	^ 4	6020
Nickel	802		49.2	134	75-125	2	35	^ 4	6020
Selenium	193		197	98	75-125	1	35		6020
Silver	31.7		29.5	107	75-125	5	35		6020
Thallium	206		197	105	75-125	3	35		6020
Vanadium	110		49.2	99	75-125	0	35		6020
Zinc	854		49.2	123	75-125	2	35	^ 4	6020
Aluminum	11400		197	319	75-125	2	35	4	6020
Magnesium	9220		984	120	75-125	2	35	4	6020

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: 16SMSS MSD
Lab ID: 580-19399-31 MSD
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 82.9

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	216		214	98	75-125	4	35	^	6020
Antimony	145		160	90	75-125	5	35	^	6020
Barium	335		214	96	75-125	5	35	^	6020
Beryllium	5.21		5.35	91	75-125	8	35		6020
Cadmium	5.62		5.35	103	75-125	4	35		6020
Chromium	471		21.4	44	75-125	7	35	^ 4	6020
Lead	60.3		53.5	103	75-125	5	35		6020
Cobalt	184		53.5	88	75-125	7	35	^	6020
Copper	38.8		26.7	96	75-125	10	35	^	6020
Iron	70200		1180	-510	75-125	7	35	4	6020
Manganese	1050		53.5	88	75-125	7	35	^ 4	6020
Nickel	2310		53.5	125	75-125	6	35	^ 4	6020
Selenium	207		214	96	75-125	1	35		6020
Silver	32.7		32.1	102	75-125	6	35		6020
Thallium	218		214	102	75-125	5	35		6020
Vanadium	89.2		53.5	93	75-125	6	35		6020
Zinc	96.7		53.5	91	75-125	9	35	^	6020
Aluminum	12000		214	153	75-125	8	35	4	6020
Magnesium	20200		1070	62	75-125	8	35	4	6020

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: 01SMRT2 PDS Lab ID: 580-19399-14 PDS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Matrix: Solid Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	204		5.0		200	99	75-125	^	6020
Antimony	155		1.9		150	102	75-125	^	6020
Barium	338		130		200	105	75-125	^	6020
Beryllium	5.16		0.27		5.01	98	75-125		6020
Cadmium	5.65		0.43		5.01	104	75-125		6020
Chromium	1570		1500		20.0	NC	75-125	^	6020
Lead	637		620		50.1	NC	75-125		6020
Cobalt	123		68		50.1	108	75-125	^	6020
Copper	81.7		54		25.0	111	75-125	^	6020
Iron	141000		150000		1100	NC	75-125		6020
Manganese	620		540		50.1	NC	75-125	^	6020
Nickel	819		740		50.1	NC	75-125	^	6020
Selenium	205		ND		200	102	75-125		6020
Silver	31.7		ND		30.1	105	75-125		6020
Thallium	208		ND		200	104	75-125		6020
Vanadium	113		61		50.1	103	75-125		6020
Zinc	867		790		50.1	NC	75-125	^	6020
Aluminum	11700		11000		200	NC	75-125		6020
Magnesium	9480		8000		1000	144	75-125	W	6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: 16SMSS PDS
Lab ID: 580-19399-31 PDS
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	221		6.2		222	97	75-125	^	6020
Antimony	149		0.81		166	89	75-125	^	6020
Barium	341		130		222	95	75-125	^	6020
Beryllium	5.42		0.37		5.54	91	75-125		6020
Cadmium	5.40		ND		5.54	95	75-125		6020
Chromium	495		460		22.2	NC	75-125	^	6020
Lead	61.8		5.2		55.4	102	75-125		6020
Cobalt	193		140		55.4	102	75-125	^	6020
Copper	41.3		13		27.7	101	75-125	^	6020
Iron	72100		76000		1220	NC	75-125		6020
Manganese	1100		1000		55.4	NC	75-125	^	6020
Nickel	2390		2200		55.4	NC	75-125	^	6020
Selenium	209		0.81		222	94	75-125		6020
Silver	33.6		ND		33.3	101	75-125		6020
Thallium	223		ND		222	101	75-125		6020
Vanadium	93.6		39		55.4	98	75-125		6020
Zinc	102		48		55.4	98	75-125	^	6020
Aluminum	12500		12000		222	NC	75-125		6020
Magnesium	21000		20000		1110	NC	75-125		6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

6-IN
DUPLICATES
METALS

Client ID: 01SMRT2 DU
Lab ID: 580-19399-14 DU
Lab Name: TestAmerica Tacoma
Job No.: 580-19399-1
SDG No.:
% Solids for Sample: 95.7
% Solids for Duplicate: 95.7
Matrix: Solid
Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Arsenic	0.20	5.0		5.26		6	^	6020
Antimony	0.20	1.9		1.94		3	^	6020
Barium	0.20	130		132		3	^	6020
Beryllium	0.20	0.27		0.263		1		6020
Cadmium	0.20	0.43		0.409		5		6020
Chromium	0.20	1500		1490		2	^	6020
Lead	0.20	620		626		1		6020
Cobalt	0.20	68		70.2		2	^	6020
Copper	0.20	54		54.9		2	^	6020
Iron	20	150000		152000		3		6020
Manganese	0.49	540		552		2	^	6020
Nickel	0.20	740		750		2	^	6020
Selenium	0.49	ND		0.500		69		6020
Silver	0.20	ND		ND		4		6020
Thallium	0.40	ND		ND		9		6020
Vanadium	0.20	61		62.5		2		6020
Zinc	0.69	790		819		3	^	6020
Aluminum	30	11000		11000		2		6020
Magnesium	99	8000		8250		3		6020
Potassium	99	1200		1190		0		6020
Sodium	99	ND		ND		3		6020
Calcium	99	3700		3760		1		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: 16SMSS DU

Lab ID: 580-19399-31 DU

Lab Name: TestAmerica Tacoma

Job No.: 580-19399-1

SDG No.:

% Solids for Sample: 82.9

% Solids for Duplicate: 82.9

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Arsenic	0.22	6.2		6.19		0	^	6020
Antimony	0.22	0.81		0.825		2	^	6020
Barium	0.22	130		130		0	^	6020
Beryllium	0.22	0.37		0.351		4		6020
Cadmium	0.22	ND		ND		12		6020
Chromium	0.22	460		466		1	^	6020
Lead	0.22	5.2		5.22		1		6020
Cobalt	0.22	140		136		0	^	6020
Copper	0.22	13		13.4		1	^	6020
Iron	22	76000		77100		1		6020
Manganese	0.56	1000		1010		0	^	6020
Nickel	0.22	2200		2280		2	^	6020
Selenium	0.56	0.81		0.737		9		6020
Silver	0.22	ND		ND		8		6020
Thallium	0.45	ND		ND		2		6020
Vanadium	0.22	39		39.4		0		6020
Zinc	0.78	48		48.1		1	^	6020
Aluminum	34	12000		11700		0		6020
Magnesium	110	20000		19800		2		6020
Potassium	110	960		969		0		6020
Sodium	110	ND		ND		2		6020
Calcium	110	630		635		1		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 580-64514/22-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	200	204		102	80	120	^	6020
Antimony	150	159		106	80	120	^	6020
Barium	200	221		111	80	120	^	6020
Cadmium	5.00	5.24		105	80	120		6020
Chromium	20.0	21.1		105	80	120	^	6020
Lead	50.0	56.3		113	80	120		6020
Cobalt	50.0	52.6		105	80	120	^	6020
Iron	1100	1160		105	80	120		6020
Manganese	50.0	52.4		105	80	120	^	6020
Silver	30.0	33.5		112	80	120		6020
Thallium	200	215		108	80	120		6020
Vanadium	50.0	52.0		104	80	120		6020
Aluminum	200	192		96	80	120		6020
Magnesium	1000	1040		104	80	120		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 580-64514/23-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	204		200	102	80-120	0	35	^	6020
Antimony	147		150	98	80-120	8	35	^	6020
Barium	203		200	101	80-120	9	35	^	6020
Cadmium	5.18		5.00	104	80-120	1	35		6020
Chromium	20.6		20.0	103	80-120	2	35	^	6020
Lead	52.4		50.0	105	80-120	7	35		6020
Cobalt	52.6		50.0	105	80-120	0	35	^	6020
Iron	1130		1100	102	80-120	3	35		6020
Manganese	51.8		50.0	104	80-120	1	35	^	6020
Silver	30.6		30.0	102	80-120	9	35		6020
Thallium	203		200	101	80-120	6	35		6020
Vanadium	51.2		50.0	102	80-120	1	35		6020
Aluminum	196		200	98	80-120	2	35		6020
Magnesium	1030		1000	103	80-120	0	35		6020

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LCS-STANDARD REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 580-64514/24-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	225	252		112	71.1	128.9	^	6020
Antimony	126	158		126	21.0	251.6	^	6020
Barium	565	631		112	74.7	125.5	^	6020
Cadmium	69.1	74.3		107	73.2	126.8		6020
Chromium	124	133		107	69.9	129.8	^	6020
Lead	223	243		109	75.3	125.1		6020
Cobalt	115	131		114	74.5	126.1	^	6020
Iron	17600	19400		110	41.6	159.1		6020
Manganese	368	397		108	75.8	124.5	^	6020
Silver	35.2	40.2		114	65.6	134.4		6020
Thallium	173	195		113	68.8	131.2		6020
Vanadium	93.9	106		113	64.5	135.3		6020
Aluminum	10600	10900		103	46.0	153.8		6020
Magnesium	4260	4520		106	70.0	130.0		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 580-64536/22-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	200	203		102	80	120	^	6020
Antimony	150	152		102	80	120	^	6020
Barium	200	212		106	80	120	^	6020
Cadmium	5.00	4.92		98	80	120		6020
Chromium	20.0	21.2		106	80	120	^	6020
Lead	50.0	51.7		103	80	120		6020
Cobalt	50.0	53.6		107	80	120	^	6020
Iron	1100	1140		103	80	120		6020
Manganese	50.0	53.6		107	80	120	^	6020
Silver	30.0	31.1		104	80	120		6020
Thallium	200	198		99	80	120		6020
Vanadium	50.0	51.6		103	80	120		6020
Aluminum	200	195		98	80	120		6020
Magnesium	1000	1040		104	80	120		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 580-64536/23-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	202		200	101	80-120	0	35	^	6020
Antimony	152		150	101	80-120	0	35	^	6020
Barium	215		200	108	80-120	1	35	^	6020
Cadmium	5.20		5.00	104	80-120	6	35		6020
Chromium	20.5		20.0	103	80-120	3	35	^	6020
Lead	52.3		50.0	105	80-120	1	35		6020
Cobalt	53.0		50.0	106	80-120	1	35	^	6020
Iron	1110		1100	101	80-120	3	35		6020
Manganese	53.3		50.0	107	80-120	1	35	^	6020
Silver	31.4		30.0	105	80-120	1	35		6020
Thallium	201		200	100	80-120	1	35		6020
Vanadium	51.1		50.0	102	80-120	1	35		6020
Aluminum	192		200	96	80-120	2	35		6020
Magnesium	1040		1000	104	80-120	1	35		6020

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LCS-STANDARD REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 580-64536/24-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	225	251		111	71.1	128.9	^	6020
Antimony	126	165		131	21.0	251.6	^	6020
Barium	565	648		115	74.7	125.5	^	6020
Cadmium	69.1	77.2		112	73.2	126.8		6020
Chromium	124	139		112	69.9	129.8	^	6020
Lead	223	243		109	75.3	125.1		6020
Cobalt	115	136		118	74.5	126.1	^	6020
Iron	17600	19500		111	41.6	159.1		6020
Manganese	368	415		113	75.8	124.5	^	6020
Silver	35.2	40.4		115	65.6	134.4		6020
Thallium	173	194		112	68.8	131.2		6020
Vanadium	93.9	109		116	64.5	135.3		6020
Aluminum	10600	11200		106	46.0	153.8		6020
Magnesium	4260	4700		110	70.0	130.0		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 580-64541/22-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	200	200		100	80	120	^	6020
Antimony	150	152		101	80	120	^	6020
Barium	200	210		105	80	120	^	6020
Cadmium	5.00	5.03		101	80	120		6020
Chromium	20.0	20.8		104	80	120	^	6020
Lead	50.0	51.8		104	80	120		6020
Cobalt	50.0	54.2		108	80	120	^	6020
Iron	1100	1130		103	80	120		6020
Manganese	50.0	53.6		107	80	120	^	6020
Silver	30.0	31.4		105	80	120		6020
Thallium	200	196		98	80	120		6020
Vanadium	50.0	51.6		103	80	120		6020
Aluminum	200	199		100	80	120		6020
Magnesium	1000	1060		106	80	120		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 580-64541/23-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	201		200	101	80-120	0	35	^	6020
Antimony	150		150	100	80-120	1	35	^	6020
Barium	212		200	106	80-120	1	35	^	6020
Cadmium	5.16		5.00	103	80-120	3	35		6020
Chromium	21.0		20.0	105	80-120	1	35	^	6020
Lead	53.1		50.0	106	80-120	2	35		6020
Cobalt	53.8		50.0	108	80-120	1	35	^	6020
Iron	1120		1100	102	80-120	0	35		6020
Manganese	53.4		50.0	107	80-120	0	35	^	6020
Silver	31.4		30.0	105	80-120	0	35		6020
Thallium	202		200	101	80-120	3	35		6020
Vanadium	52.6		50.0	105	80-120	2	35		6020
Aluminum	194		200	97	80-120	3	35		6020
Magnesium	1040		1000	104	80-120	1	35		6020

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LCS-STANDARD REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 580-64541/24-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	225	242		108	71.1	128.9	^	6020
Antimony	126	158		125	21.0	251.6	^	6020
Barium	565	630		112	74.7	125.5	^	6020
Cadmium	69.1	73.6		107	73.2	126.8		6020
Chromium	124	137		110	69.9	129.8	^	6020
Lead	223	236		106	75.3	125.1		6020
Cobalt	115	133		116	74.5	126.1	^	6020
Iron	17600	19000		108	41.6	159.1		6020
Manganese	368	403		110	75.8	124.5	^	6020
Silver	35.2	39.1		111	65.6	134.4		6020
Thallium	173	189		109	68.8	131.2		6020
Vanadium	93.9	106		113	64.5	135.3		6020
Aluminum	10600	10500		99	46.0	153.8		6020
Magnesium	4260	4490		105	70.0	130.0		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 580-64514/22-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Beryllium	5.00	4.71		94	80	120		6020
Copper	25.0	26.4		106	80	120	^	6020
Nickel	50.0	51.4		103	80	120	^	6020
Selenium	200	199		100	80	120		6020
Zinc	50.0	51.7		103	80	120	^	6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 580-64514/23-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Beryllium	4.78		5.00	96	80-120	2	35		6020
Copper	26.1		25.0	105	80-120	1	35	^	6020
Nickel	50.9		50.0	102	80-120	1	35	^	6020
Selenium	207		200	103	80-120	4	35		6020
Zinc	51.3		50.0	103	80-120	1	35	^	6020

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LCS-STANDARD REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 580-64514/24-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Beryllium	162	167		103	75.3	124.7		6020
Copper	66.7	74.0		111	73.2	126.8	^	6020
Nickel	172	192		111	73.8	126.7	^	6020
Selenium	147	166		113	67.1	132.7		6020
Zinc	349	388		111	72.2	127.8	^	6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 580-64536/22-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Beryllium	5.00	4.78		96	80	120		6020
Copper	25.0	26.7		107	80	120	^	6020
Nickel	50.0	51.2		102	80	120	^	6020
Selenium	200	192		96	80	120		6020
Zinc	50.0	51.4		103	80	120	^	6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 580-64536/23-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Beryllium	4.74		5.00	95	80-120	1	35		6020
Copper	26.1		25.0	104	80-120	2	35	^	6020
Nickel	51.4		50.0	103	80-120	0	35	^	6020
Selenium	205		200	103	80-120	7	35		6020
Zinc	53.8		50.0	108	80-120	5	35	^	6020

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LCS-STANDARD REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 580-64536/24-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Beryllium	162	171		106	75.3	124.7		6020
Copper	66.7	75.5		113	73.2	126.8	^	6020
Nickel	172	195		113	73.8	126.7	^	6020
Selenium	147	159		108	67.1	132.7		6020
Zinc	349	396		114	72.2	127.8	^	6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 580-64541/22-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Beryllium	5.00	4.58		92	80	120		6020
Copper	25.0	26.6		106	80	120	^	6020
Nickel	50.0	52.7		105	80	120	^	6020
Selenium	200	189		94	80	120		6020
Zinc	50.0	50.2		100	80	120	^	6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 580-64541/23-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Beryllium	4.73		5.00	95	80-120	3	35		6020
Copper	26.7		25.0	107	80-120	0	35	^	6020
Nickel	52.0		50.0	104	80-120	1	35	^	6020
Selenium	195		200	98	80-120	3	35		6020
Zinc	52.3		50.0	105	80-120	4	35	^	6020

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LCS-STANDARD REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 580-64541/24-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Beryllium	162	160		99	75.3	124.7		6020
Copper	66.7	73.1		110	73.2	126.8	^	6020
Nickel	172	190		110	73.8	126.7	^	6020
Selenium	147	148		101	67.1	132.7		6020
Zinc	349	385		110	72.2	127.8	^	6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 580-64500/25-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: Hg_SPK_WORK_00002

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.200	0.192		96	75	125		7471A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 580-64500/26-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: Hg_SPK_WORK_00002

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.195		0.200	98	75-125	2	25		7471A

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LCS-STANDARD REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 580-64500/27-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.15	4.97		96	80	120		7471A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 580-64512/20-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: Hg_CAL_WORK_00002

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.200	0.209		104	75	125		7471A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 580-64512/21-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: Hg_CAL_WORK_00002

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.211		0.200	106	75-125	1	25		7471A

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LCS-STANDARD REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 580-64512/22-A

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.15	4.44		86	80	120		7471A

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 580-19399-14

SDG No:

Lab Name: TestAmerica Tacoma Job No: 580-19399-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	5.0		5.16		4.2	^	6020
Antimony	1.9		1.94		NC	^	6020
Barium	130		132		2.7	^	6020
Beryllium	0.27		ND		NC		6020
Cadmium	0.43		ND		14	V	6020
Chromium	1500		1700		16	^ V	6020
Lead	620		637		2.5		6020
Cobalt	68		77.4		13	^ V	6020
Copper	54		60.6		12	^ V	6020
Iron	150000		152000		2.3		6020
Manganese	540		623		15	^ V	6020
Nickel	740		843		14	^ V	6020
Selenium	ND		ND		175	V	6020
Silver	ND		ND		NC		6020
Thallium	ND		ND		NC		6020
Vanadium	61		67.6		11	V	6020
Zinc	790		899		13	^ V	6020
Aluminum	11000		12400		15	V	6020
Magnesium	8000		9160		14	V	6020
Potassium	1200		1360		15	V	6020
Sodium	ND		ND		NC		6020
Calcium	3700		4140		11	V	6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 580-19399-31

SDG No:

Lab Name: TestAmerica Tacoma Job No: 580-19399-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	6.2		6.30		2.0	^	6020
Antimony	0.81		ND		NC	^	6020
Barium	130		131		1.3	^	6020
Beryllium	0.37		ND		NC		6020
Cadmium	ND		ND		NC		6020
Chromium	460		539		17	^ V	6020
Lead	5.2		5.34		2.9		6020
Cobalt	140		157		15	^ V	6020
Copper	13		15.4		16	^ V	6020
Iron	76000		82200		7.9		6020
Manganese	1000		1200		19	^ V	6020
Nickel	2200		2700		20	^ V	6020
Selenium	0.81		ND		60	V	6020
Silver	ND		ND		NC		6020
Thallium	ND		ND		NC		6020
Vanadium	39		43.3		10		6020
Zinc	48		55.4		16	^ V	6020
Aluminum	12000		13700		18	V	6020
Magnesium	20000		22600		16	V	6020
Potassium	960		1060		9.7		6020
Sodium	ND		ND		NC		6020
Calcium	630		681		9.0		6020

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Tacoma Job Number: 580-19399-1

SDG Number:

Matrix: Solid Instrument ID: SEA044

Analysis Method: 6020 MDL Date: 05/07/2010 09:23

Prep Method: 3050B

Leach Method:

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Aluminum		30	3
Antimony		0.2	0.0657
Arsenic		0.2	0.004
Barium		0.2	0.0148
Beryllium		0.2	0.0069
Cadmium		0.2	0.00468
Calcium		100	8.86
Chromium		0.2	0.04
Cobalt		0.2	0.00535
Copper		0.2	0.0322
Iron		20	3.45
Lead		0.2	0.0104
Magnesium		100	2.64
Manganese		0.5	0.158
Nickel		0.2	0.0367
Potassium		100	3.31
Selenium		0.5	0.004
Silver		0.2	0.0041
Sodium		100	39.2
Thallium		0.4	0.04
Vanadium		0.2	0.0267
Zinc		0.7	0.15

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Tacoma Job Number: 580-19399-1

SDG Number:

Matrix: Solid Instrument ID: SEA029

Analysis Method: 7471A MDL Date: 10/02/2008 09:50

Prep Method: 7471A

Leach Method:

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Mercury		0.02	0.0063

FORM IX - IN

11-IN
ICP-AES AND ICP-MS LINEAR RANGES
METALS

Lab Name: TestAmerica Tacoma Job No: 580-19399-1

SDG No.:

Instrument ID: SEA044 Date: 04/01/2007 10:29

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Arsenic		5	6020
Antimony		5	6020
Barium		5	6020
Beryllium		5	6020
Cadmium		5	6020
Chromium		5	6020
Lead		5	6020
Cobalt		5	6020
Copper		5	6020
Iron		5	6020
Manganese		5	6020
Nickel		5	6020
Selenium		5	6020
Silver		5	6020
Thallium		5	6020
Vanadium		5	6020
Zinc		5	6020
Aluminum		5	6020
Magnesium		5	6020
Potassium		5	6020
Sodium		5	6020
Calcium		5	6020

11-IN
ICP-AES AND ICP-MS LINEAR RANGES
METALS

Lab Name: TestAmerica Tacoma Job No: 580-19399-1

SDG No.:

Instrument ID: SEA029 Date: 01/01/2007 16:04

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Mercury		0.011	7471A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Preparation Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
580-19399-1	05/27/2010 12:12	64514	1.0420		50
580-19399-2	05/27/2010 12:12	64514	1.2596		50
580-19399-3	05/27/2010 12:12	64514	1.0462		50
580-19399-4	05/27/2010 12:12	64514	1.0722		50
580-19399-5	05/27/2010 12:12	64514	1.1184		50
580-19399-6	05/27/2010 12:12	64514	1.3135		50
580-19399-7	05/27/2010 12:12	64514	1.3011		50
580-19399-8	05/27/2010 12:12	64514	1.4866		50
580-19399-9	05/27/2010 12:12	64514	1.3686		50
580-19399-10	05/27/2010 12:12	64514	1.2005		50
580-19399-11	05/27/2010 12:12	64514	1.2576		50
580-19399-12	05/27/2010 12:12	64514	1.1960		50
580-19399-13	05/27/2010 12:12	64514	1.0363		50
MB 580-64514/21-A	05/27/2010 12:12	64514	1.0		50
LCS 580-64514/22-A	05/27/2010 12:12	64514	1.0		50
LCSD 580-64514/23-A	05/27/2010 12:12	64514	1.0		50
LCSSRM 580-64514/24-A	05/27/2010 12:12	64514	0.5119		50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Preparation Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
580-19399-14	05/27/2010 13:52	64536	1.0432		50
580-19399-14 DU	05/27/2010 13:52	64536	1.0577		50
580-19399-14 MS	05/27/2010 13:52	64536	1.0517		50
580-19399-14 MSD	05/27/2010 13:52	64536	1.0627		50
580-19399-15	05/27/2010 13:52	64536	1.0480		50
580-19399-16	05/27/2010 13:52	64536	1.0023		50
580-19399-17	05/27/2010 13:52	64536	1.1540		50
580-19399-18	05/27/2010 13:52	64536	1.1608		50
580-19399-19	05/27/2010 13:52	64536	1.0178		50
580-19399-20	05/27/2010 13:52	64536	1.0800		50
580-19399-21	05/27/2010 13:52	64536	1.1748		50
580-19399-22	05/27/2010 13:52	64536	1.1354		50
580-19399-23	05/27/2010 13:52	64536	1.0692		50
580-19399-24	05/27/2010 13:52	64536	1.1432		50
580-19399-25	05/27/2010 13:52	64536	1.0748		50
580-19399-26	05/27/2010 13:52	64536	1.0233		50
580-19399-27	05/27/2010 13:52	64536	1.0265		50
580-19399-28	05/27/2010 13:52	64536	1.1738		50
580-19399-29	05/27/2010 13:52	64536	1.0467		50
580-19399-30	05/27/2010 13:52	64536	1.0486		50
MB 580-64536/21-A	05/27/2010 13:52	64536	1.0		50
LCS 580-64536/22-A	05/27/2010 13:52	64536	1.0		50
LCSD 580-64536/23-A	05/27/2010 13:52	64536	1.0		50
LCSSRM 580-64536/24-A	05/27/2010 13:52	64536	0.5214		50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Preparation Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
580-19399-31	05/27/2010 14:44	64541	1.0876		50
580-19399-31 DU	05/27/2010 14:44	64541	1.0772		50
580-19399-31 MS	05/27/2010 14:44	64541	1.0268		50
580-19399-31 MSD	05/27/2010 14:44	64541	1.1273		50
580-19399-32	05/27/2010 14:44	64541	1.1010		50
MB 580-64541/21-A	05/27/2010 14:44	64541	1.0		50
LCS 580-64541/22-A	05/27/2010 14:44	64541	1.0		50
LCSD 580-64541/23-A	05/27/2010 14:44	64541	1.0		50
LCSSRM 580-64541/24-A	05/27/2010 14:44	64541	0.5352		50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Preparation Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
580-19399-1	05/27/2010 10:21	64500	0.8031		50
580-19399-2	05/27/2010 10:21	64500	0.7163		50
580-19399-3	05/27/2010 10:21	64500	0.7213		50
580-19399-5	05/27/2010 10:21	64500	0.5914		50
580-19399-6	05/27/2010 10:21	64500	0.5813		50
580-19399-7	05/27/2010 10:21	64500	0.6533		50
580-19399-8	05/27/2010 10:21	64500	0.7961		50
580-19399-11	05/27/2010 10:21	64500	0.6465		50
580-19399-13	05/27/2010 10:21	64500	0.6885		50
580-19399-14	05/27/2010 10:21	64500	0.6923		50
580-19399-15	05/27/2010 10:21	64500	0.7532		50
580-19399-16	05/27/2010 10:21	64500	0.8363		50
580-19399-17	05/27/2010 10:21	64500	0.5282		50
580-19399-18	05/27/2010 10:21	64500	0.8910		50
580-19399-19	05/27/2010 10:21	64500	0.5739		50
MB 580-64500/24-A	05/27/2010 10:21	64500	0.5		50
LCS 580-64500/25-A	05/27/2010 10:21	64500	.5		50
LCSD 580-64500/26-A	05/27/2010 10:21	64500	.5		50
LCSSRM 580-64500/27-A	05/27/2010 10:21	64500	0.1302		50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Preparation Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
580-19399-20	05/27/2010 12:06	64512	0.6132		50
580-19399-21	05/27/2010 12:06	64512	0.5209		50
580-19399-22	05/27/2010 12:06	64512	0.6051		50
580-19399-23	05/27/2010 12:06	64512	0.7518		50
580-19399-24	05/27/2010 12:06	64512	0.8541		50
580-19399-25	05/27/2010 12:06	64512	0.5833		50
580-19399-26	05/27/2010 12:06	64512	0.9052		50
580-19399-27	05/27/2010 12:06	64512	0.6307		50
580-19399-28	05/27/2010 12:06	64512	0.8872		50
580-19399-29	05/27/2010 12:06	64512	0.8754		50
580-19399-30	05/27/2010 12:06	64512	0.9205		50
580-19399-31	05/27/2010 12:06	64512	0.7031		50
580-19399-32	05/27/2010 12:06	64512	0.8068		50
MB 580-64512/19-A	05/27/2010 12:06	64512	0.5		50
LCS 580-64512/20-A	05/27/2010 12:06	64512	0.5		50
LCSD 580-64512/21-A	05/27/2010 12:06	64512	0.5		50
LCSSRM 580-64512/22-A	05/27/2010 12:06	64512	0.1170		50

FORM XII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/27/2010 13:27 End Date: 05/28/2010 09:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Ca	Cd	Co	Cr	Fe	K	Mg	Mn	Na	Pb	Sb	Tl	V			
STD0 580-64718/1 IC			13:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
STD1 580-64718/2 IC			13:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
STD2 580-64718/3 IC			13:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
STD3 580-64718/4 IC			13:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
STD4 580-64718/5 IC			13:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
STD5 580-64718/6 IC			13:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ICV 580-64718/7	1		14:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ICB 580-64718/8	1		14:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CRI 580-64718/9	1		14:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ICSA 580-64718/10	1		14:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ICSAB 580-64718/11	1		14:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCV 580-64718/12			15:12																				
CCB 580-64718/13			15:18																				
ZZZZZZ			15:24																				
ZZZZZZ			15:30																				
ZZZZZZ			15:36																				
ZZZZZZ			15:42																				
ZZZZZZ			15:48																				
ZZZZZZ			15:54																				
ZZZZZZ			16:00																				
ZZZZZZ			16:07																				
ZZZZZZ			16:13																				
ZZZZZZ			16:19																				
CCV 580-64718/24			16:25																				
CCB 580-64718/25			16:31																				
ZZZZZZ			16:37																				
ZZZZZZ			16:44																				
ZZZZZZ			16:51																				
ZZZZZZ			16:58																				
ZZZZZZ			17:05																				
ZZZZZZ			17:12																				
ZZZZZZ			17:19																				
ZZZZZZ			17:26																				
ZZZZZZ			17:33																				
ZZZZZZ			17:40																				
CCV 580-64718/36			17:47																				
CCB 580-64718/37			17:54																				
ZZZZZZ			18:02																				
ZZZZZZ			18:09																				
ZZZZZZ			18:16																				
ZZZZZZ			18:23																				
ZZZZZZ			18:30																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/27/2010 13:27 End Date: 05/28/2010 09:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Ca	Cd	Co	Cr	Fe	K	Mg	Mn	Na	Pb	Sb	Tl	V			
ZZZZZZ			18:37																				
CCV 580-64718/44	1		18:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 580-64718/45	1		18:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
MB 580-64514/21-A	10	T	18:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ZZZZZZ			19:06																				
ZZZZZZ			19:13																				
ZZZZZZ			19:20																				
ZZZZZZ			19:27																				
ZZZZZZ			19:34																				
ZZZZZZ			19:41																				
LCS 580-64514/22-A	50	T	19:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
LCSD 580-64514/23-A	50	T	19:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
LCSSRM 580-64514/24-A	20	T	20:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCV 580-64718/56	1		20:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 580-64718/57	1		20:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ZZZZZZ			20:24																				
ZZZZZZ			20:32																				
ZZZZZZ			20:39																				
580-19399-1	10	T	20:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-2	10	T	20:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-3	10	T	21:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-4	10	T	21:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-5	10	T	21:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-6	10	T	21:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-7	10	T	21:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCV 580-64718/68	1		21:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 580-64718/69	1		21:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-8	10	T	21:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-9	10	T	21:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-10	10	T	22:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-11	10	T	22:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-12	10	T	22:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-13	10	T	22:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCV 580-64718/76	1		22:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 580-64718/77	1		22:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ZZZZZZ			22:47																				
ZZZZZZ			22:54																				
ZZZZZZ			23:01																				
ZZZZZZ			23:08																				
ZZZZZZ			23:15																				
ZZZZZZ			23:22																				
ZZZZZZ			23:30																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/27/2010 13:27 End Date: 05/28/2010 09:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Ca	Cd	Co	Cr	Fe	K	Mg	Mn	Na	Pb	Sb	Tl	V			
ZZZZZZ			23:37																				
ZZZZZZ			23:44																				
CCV 580-64718/87			23:51																				
CCB 580-64718/88			23:58																				
ZZZZZZ			00:05																				
ZZZZZZ			00:12																				
ZZZZZZ			00:20																				
ZZZZZZ			00:27																				
ZZZZZZ			00:34																				
ZZZZZZ			00:41																				
ZZZZZZ			00:48																				
ZZZZZZ			00:55																				
ZZZZZZ			01:03																				
ZZZZZZ			01:10																				
CCV 580-64718/99			01:17																				
CCB 580-64718/100			01:24																				
ZZZZZZ			01:31																				
ZZZZZZ			01:38																				
ZZZZZZ			01:45																				
ZZZZZZ			01:53																				
CCV 580-64718/105	1		02:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 580-64718/106	1		02:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
MB 580-64536/21-A	10	T	02:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-14 SD	50	T	02:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-14	10	T	02:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-14 DU	10	T	02:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-14 MS	50	T	02:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-14 MSD	50	T	02:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-14 PDS	50	T	02:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
LCS 580-64536/22-A	50	T	03:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
LCSD 580-64536/23-A	50	T	03:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
LCSSRM 580-64536/24-A	20	T	03:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCV 580-64718/117	1		03:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 580-64718/118	1		03:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-15	10	T	03:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-16	10	T	03:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-17	10	T	03:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-18	10	T	04:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-19	10	T	04:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-20	10	T	04:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-21	10	T	04:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-22	10	T	04:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/27/2010 13:27 End Date: 05/28/2010 09:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Ca	Cd	Co	Cr	Fe	K	Mg	Mn	Na	Pb	Sb	Tl	V			
580-19399-23	10	T	04:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-24	10	T	04:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCV 580-64718/129	1		04:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 580-64718/130	1		04:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-25	10	T	05:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-26	10	T	05:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-27	10	T	05:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-28	10	T	05:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-29	10	T	05:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-30	10	T	05:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCV 580-64718/137	1		05:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 580-64718/138	1		05:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
MB 580-64541/21-A	10	T	06:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-31 SD	50	T	06:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-31	10	T	06:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-31 DU	10	T	06:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-31 MS	50	T	06:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-31 MSD	50	T	06:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-31 PDS	50	T	06:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
LCS 580-64541/22-A	50	T	06:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
LCSD 580-64541/23-A	50	T	06:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
LCSSRM 580-64541/24-A	20	T	07:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCV 580-64718/149	1		07:14	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 580-64718/150	1		07:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19399-32	10	T	07:28	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ZZZZZZ			07:35																				
ZZZZZZ			07:42																				
ZZZZZZ			07:49																				
ZZZZZZ			07:56																				
ZZZZZZ			08:04																				
ZZZZZZ			08:11																				
ZZZZZZ			08:18																				
ZZZZZZ			08:25																				
ZZZZZZ			08:32																				
CCV 580-64718/161	1		08:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 580-64718/162	1		08:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ZZZZZZ			08:53																				
ZZZZZZ			09:00																				
ZZZZZZ			09:08																				
ZZZZZZ			09:15																				
ZZZZZZ			09:22																				
ZZZZZZ			09:29																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/27/2010 13:27 End Date: 05/28/2010 09:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Ca	Cd	Co	Cr	Fe	K	Mg	Mn	Na	Pb	Sb	Tl	V			
CCV 580-64718/169			09:36																				
CCB 580-64718/170			09:43																				
ICSA 580-64718/171	1		09:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ICSAB 580-64718/172	1		09:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/28/2010 11:15 End Date: 05/29/2010 05:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Be	Cu	Ni	Se	Zn															
STD0 580-64756/1 IC			11:15	X	X	X	X	X															
STD1 580-64756/2 IC			11:21	X	X	X	X	X															
STD2 580-64756/3 IC			11:27	X	X	X	X	X															
STD3 580-64756/4 IC			11:33	X	X	X	X	X															
STD4 580-64756/5 IC			11:39	X	X	X	X	X															
STD5 580-64756/6 IC			11:46	X	X	X	X	X															
ICV 580-64756/7	1		11:58	X	X	X	X	X															
ICB 580-64756/8	1		12:04	X	X	X	X	X															
CRI 580-64756/9	1		12:16	X	X	X	X	X															
ICSA 580-64756/10	1		12:23	X	X	X	X	X															
ICSAB 580-64756/11	1		12:29	X	X	X	X	X															
CCV 580-64756/12			12:53																				
CCB 580-64756/13			12:59																				
ZZZZZZ			13:05																				
ZZZZZZ			13:11																				
ZZZZZZ			13:17																				
ZZZZZZ			13:23																				
ZZZZZZ			13:29																				
ZZZZZZ			13:36																				
ZZZZZZ			13:42																				
ZZZZZZ			13:48																				
ZZZZZZ			13:54																				
ZZZZZZ			14:00																				
CCV 580-64756/24			14:06																				
CCB 580-64756/25			14:12																				
ZZZZZZ			14:18																				
ZZZZZZ			14:24																				
ZZZZZZ			14:30																				
ZZZZZZ			14:36																				
ZZZZZZ			14:42																				
ZZZZZZ			14:48																				
ZZZZZZ			14:55																				
ZZZZZZ			15:01																				
ZZZZZZ			15:07																				
ZZZZZZ			15:13																				
CCV 580-64756/36			15:19																				
CCB 580-64756/37			15:25																				
ZZZZZZ			15:31																				
ZZZZZZ			15:37																				
ZZZZZZ			15:43																				
ZZZZZZ			15:49																				
ZZZZZZ			15:55																				

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ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/28/2010 11:15 End Date: 05/29/2010 05:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Be	Cu	Ni	Se	Zn															
ZZZZZZ			16:01																				
CCV 580-64756/44	1		16:07	X	X	X	X	X															
CCB 580-64756/45	1		16:13	X	X	X	X	X															
MB 580-64514/21-A	10	T	16:19	X	X	X	X	X															
ZZZZZZ			16:25																				
ZZZZZZ			16:32																				
ZZZZZZ			16:38																				
ZZZZZZ			16:44																				
ZZZZZZ			16:50																				
ZZZZZZ			16:56																				
LCS 580-64514/22-A	50	T	17:02	X	X	X	X	X															
LCSD 580-64514/23-A	50	T	17:08	X	X	X	X	X															
LCSSRM 580-64514/24-A	20	T	17:14	X	X	X	X	X															
CCV 580-64756/56	1		17:21	X	X	X	X	X															
CCB 580-64756/57	1		17:27	X	X	X	X	X															
ZZZZZZ			17:33																				
ZZZZZZ			17:39																				
ZZZZZZ			17:45																				
580-19399-1	10	T	17:51	X	X	X	X	X															
580-19399-2	10	T	17:57	X	X	X	X	X															
580-19399-3	10	T	18:03	X	X	X	X	X															
580-19399-4	10	T	18:09	X	X	X	X	X															
580-19399-5	10	T	18:15	X	X	X	X	X															
580-19399-6	10	T	18:21	X	X	X	X	X															
580-19399-7	10	T	18:28	X	X	X	X	X															
CCV 580-64756/68	1		18:34	X	X	X	X	X															
CCB 580-64756/69	1		18:40	X	X	X	X	X															
580-19399-8	10	T	18:46	X	X	X	X	X															
580-19399-9	10	T	18:52	X	X	X	X	X															
580-19399-10	10	T	18:58	X	X	X	X	X															
580-19399-11	10	T	19:04	X	X	X	X	X															
580-19399-12	10	T	19:10	X	X	X	X	X															
580-19399-13	10	T	19:16	X	X	X	X	X															
CCV 580-64756/76	1		19:22	X	X	X	X	X															
CCB 580-64756/77	1		19:29	X	X	X	X	X															
ZZZZZZ			19:35																				
ZZZZZZ			19:41																				
ZZZZZZ			19:47																				
ZZZZZZ			19:53																				
ZZZZZZ			19:59																				
ZZZZZZ			20:05																				
ZZZZZZ			20:12																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/28/2010 11:15 End Date: 05/29/2010 05:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Be	Cu	Ni	Se	Zn															
ZZZZZZ			20:18																				
ZZZZZZ			20:24																				
CCV 580-64756/87			20:30																				
CCB 580-64756/88			20:36																				
ZZZZZZ			20:42																				
ZZZZZZ			20:48																				
ZZZZZZ			20:54																				
ZZZZZZ			21:01																				
ZZZZZZ			21:07																				
ZZZZZZ			21:13																				
ZZZZZZ			21:19																				
ZZZZZZ			21:25																				
ZZZZZZ			21:31																				
ZZZZZZ			21:38																				
CCV 580-64756/99			21:44																				
CCB 580-64756/100			21:50																				
ZZZZZZ			21:56																				
ZZZZZZ			22:02																				
ZZZZZZ			22:08																				
ZZZZZZ			22:14																				
CCV 580-64756/105	1		22:21	X	X	X	X	X															
CCB 580-64756/106	1		22:27	X	X	X	X	X															
MB 580-64536/21-A	10	T	22:33	X	X	X	X	X															
580-19399-14 SD	50	T	22:39	X	X	X	X	X															
580-19399-14	10	T	22:45	X	X	X	X	X															
580-19399-14 DU	10	T	22:51	X	X	X	X	X															
580-19399-14 MS	50	T	22:57	X	X	X	X	X															
580-19399-14 MSD	50	T	23:03	X	X	X	X	X															
580-19399-14 PDS	50	T	23:09	X	X	X	X	X															
LCS 580-64536/22-A	50	T	23:16	X	X	X	X	X															
LCSD 580-64536/23-A	50	T	23:22	X	X	X	X	X															
LCSSRM 580-64536/24-A	20	T	23:28	X	X	X	X	X															
CCV 580-64756/117	1		23:34	X	X	X	X	X															
CCB 580-64756/118	1		23:41	X	X	X	X	X															
580-19399-15	10	T	23:47	X	X	X	X	X															
580-19399-16	10	T	23:53	X	X	X	X	X															
580-19399-17	10	T	23:59	X	X	X	X	X															
580-19399-18	10	T	00:05	X	X	X	X	X															
580-19399-19	10	T	00:11	X	X	X	X	X															
580-19399-20	10	T	00:17	X	X	X	X	X															
580-19399-21	10	T	00:23	X	X	X	X	X															
580-19399-22	10	T	00:29	X	X	X	X	X															

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/28/2010 11:15 End Date: 05/29/2010 05:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Be	Cu	Ni	Se	Zn															
580-19399-23	10	T	00:35	X	X	X	X	X															
580-19399-24	10	T	00:42	X	X	X	X	X															
CCV 580-64756/129	1		00:48	X	X	X	X	X															
CCB 580-64756/130	1		00:54	X	X	X	X	X															
580-19399-25	10	T	01:00	X	X	X	X	X															
580-19399-26	10	T	01:06	X	X	X	X	X															
580-19399-27	10	T	01:12	X	X	X	X	X															
580-19399-28	10	T	01:19	X	X	X	X	X															
580-19399-29	10	T	01:25	X	X	X	X	X															
580-19399-30	10	T	01:31	X	X	X	X	X															
CCV 580-64756/137	1		01:37	X	X	X	X	X															
CCB 580-64756/138	1		01:43	X	X	X	X	X															
MB 580-64541/21-A	10	T	01:49	X	X	X	X	X															
580-19399-31 SD	50	T	01:55	X	X	X	X	X															
580-19399-31	10	T	02:01	X	X	X	X	X															
580-19399-31 DU	10	T	02:08	X	X	X	X	X															
580-19399-31 MS	50	T	02:14	X	X	X	X	X															
580-19399-31 MSD	50	T	02:20	X	X	X	X	X															
580-19399-31 PDS	50	T	02:26	X	X	X	X	X															
LCS 580-64541/22-A	50	T	02:32	X	X	X	X	X															
LCSD 580-64541/23-A	50	T	02:38	X	X	X	X	X															
LCSSRM 580-64541/24-A	20	T	02:44	X	X	X	X	X															
CCV 580-64756/149	1		02:51	X	X	X	X	X															
CCB 580-64756/150	1		02:57	X	X	X	X	X															
580-19399-32	10	T	03:03	X	X	X	X	X															
ZZZZZZ			03:09																				
ZZZZZZ			03:15																				
ZZZZZZ			03:21																				
ZZZZZZ			03:27																				
ZZZZZZ			03:33																				
ZZZZZZ			03:40																				
ZZZZZZ			03:46																				
ZZZZZZ			03:52																				
ZZZZZZ			03:58																				
CCV 580-64756/161	1		04:04	X	X	X	X	X															
CCB 580-64756/162	1		04:10	X	X	X	X	X															
ZZZZZZ			04:16																				
ZZZZZZ			04:22																				
ZZZZZZ			04:28																				
ZZZZZZ			04:35																				
ZZZZZZ			04:41																				
ZZZZZZ			04:47																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/28/2010 11:15 End Date: 05/29/2010 05:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Be	Cu	Ni	Se	Zn															
CCV 580-64756/169			04:53																				
CCB 580-64756/170			04:59																				
ICSA 580-64756/171	1		05:05	X	X	X	X	X															
ICSAB 580-64756/172	1		05:11	X	X	X	X	X															

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Instrument ID: SEA029 Method: 7471A

Start Date: 05/27/2010 08:41 End Date: 05/27/2010 16:30

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
STD01REP1 580-64554/1 IC			08:41	X																			
STD01REP2 580-64554/2 IC			08:45	X																			
STD01REP3 580-64554/3 IC			08:50	X																			
STD02REP1 580-64554/4 IC			08:54	X																			
STD02REP2 580-64554/5 IC			08:59	X																			
STD02REP3 580-64554/6 IC			09:03	X																			
STD03REP1 580-64554/7 IC			09:08	X																			
STD03REP2 580-64554/8 IC			09:12	X																			
STD03REP3 580-64554/9 IC			09:17	X																			
STD04REP1 580-64554/10 IC			09:21	X																			
STD04REP2 580-64554/11 IC			09:26	X																			
STD04REP3 580-64554/12 IC			09:30	X																			
STD05REP1 580-64554/13 IC			09:35	X																			
STD05REP2 580-64554/14 IC			09:39	X																			
STD05REP3 580-64554/15 IC			09:43	X																			
STD06REP1 580-64554/16 IC			09:48	X																			
STD06REP2 580-64554/17 IC			09:52	X																			
STD06REP3 580-64554/18 IC			09:57	X																			
ICV 580-64554/19	1		10:01	X																			
ICB 580-64554/20	1		10:05	X																			
CCV 580-64554/21	1		12:44	X																			
CCB 580-64554/22	1		12:49	X																			
MB 580-64500/24-A	1	T	12:54	X																			
LCS 580-64500/25-A	1	T	12:58	X																			
LCSD 580-64500/26-A	1	T	13:03	X																			
LCSSRM 580-64500/27-A	2	T	13:07	X																			
ZZZZZZ			13:23																				
ZZZZZZ			13:28																				
ZZZZZZ			13:33																				
ZZZZZZ			13:37																				
CCV 580-64554/31	1		13:42	X																			
CCB 580-64554/32	1		13:46	X																			
ZZZZZZ			13:51																				
580-19399-3	1000	T	14:14	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Instrument ID: SEA029 Method: 7471A

Start Date: 05/27/2010 08:41 End Date: 05/27/2010 16:30

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
580-19399-5	1000	T	14:23	X																			
580-19399-6	1000	T	14:27	X																			
580-19399-7	1000	T	14:31	X																			
CCV 580-64554/38	1		14:36	X																			
CCB 580-64554/39	1		14:40	X																			
580-19399-8	1000	T	14:44	X																			
580-19399-11	1000	T	14:49	X																			
580-19399-15	1000	T	15:03	X																			
580-19399-17	1000	T	15:12	X																			
580-19399-18	1000	T	15:16	X																			
580-19399-19	1000	T	15:21	X																			
CCV 580-64554/46	1		15:25	X																			
CCB 580-64554/47	1		15:30	X																			
580-19399-1	10	T	15:43	X																			
580-19399-2	10	T	15:47	X																			
ZZZZZZ			15:52																				
580-19399-13	100	T	15:56	X																			
580-19399-14	10000	T	16:07	X																			
580-19399-16	10000	T	16:11	X																			
ZZZZZZ			16:17																				
ZZZZZZ			16:21																				
CCV 580-64554/56	1		16:26	X																			
CCB 580-64554/57	1		16:30	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Instrument ID: SEA029 Method: 7471A

Start Date: 05/28/2010 06:33 End Date: 05/28/2010 18:07

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
STD01REP1 580-64691/1 IC			06:33	X																			
STD01REP2 580-64691/2 IC			06:37	X																			
STD01REP3 580-64691/3 IC			06:42	X																			
STD02REP1 580-64691/4 IC			06:46	X																			
STD02REP2 580-64691/5 IC			06:51	X																			
STD02REP3 580-64691/6 IC			06:55	X																			
STD03REP1 580-64691/7 IC			07:00	X																			
STD03REP2 580-64691/8 IC			07:04	X																			
STD03REP3 580-64691/9 IC			07:09	X																			
STD04REP1 580-64691/10 IC			07:13	X																			
STD04REP2 580-64691/11 IC			07:18	X																			
STD04REP3 580-64691/12 IC			07:22	X																			
STD05REP1 580-64691/13 IC			07:27	X																			
STD05REP2 580-64691/14 IC			07:31	X																			
STD05REP3 580-64691/15 IC			07:36	X																			
STD06REP1 580-64691/16 IC			07:40	X																			
STD06REP2 580-64691/17 IC			07:45	X																			
STD06REP3 580-64691/18 IC			07:50	X																			
ICV 580-64691/19	1		07:56	X																			
ICB 580-64691/20	1		08:01	X																			
CCV 580-64691/21			10:34																				
CCB 580-64691/22			10:38																				
ZZZZZZ			10:43																				
ZZZZZZ			10:47																				
ZZZZZZ			10:52																				
ZZZZZZ			10:56																				
ZZZZZZ			11:00																				
ZZZZZZ			11:05																				
ZZZZZZ			11:09																				
ZZZZZZ			11:14																				
ZZZZZZ			11:19																				
ZZZZZZ			11:23																				
CCV 580-64691/33			11:28																				
CCB 580-64691/34			11:32																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Instrument ID: SEA029 Method: 7471A

Start Date: 05/28/2010 06:33 End Date: 05/28/2010 18:07

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			11:37																				
ZZZZZZ			11:41																				
ZZZZZZ			11:45																				
ZZZZZZ			11:50																				
ZZZZZZ			11:55																				
ZZZZZZ			12:00																				
ZZZZZZ			12:04																				
ZZZZZZ			12:09																				
ZZZZZZ			12:13																				
ZZZZZZ			12:17																				
CCV 580-64691/45			12:22																				
CCB 580-64691/46			12:26																				
ZZZZZZ			12:31																				
ZZZZZZ			12:35																				
ZZZZZZ			12:40																				
ZZZZZZ			12:44																				
ZZZZZZ			12:49																				
CCV 580-64691/52			12:53																				
CCB 580-64691/53			12:58																				
ZZZZZZ			13:02																				
ZZZZZZ			13:07																				
ZZZZZZ			13:11																				
ZZZZZZ			13:16																				
CCV 580-64691/58			13:20																				
CCB 580-64691/59			13:25																				
ZZZZZZ			13:29																				
ZZZZZZ			13:34																				
ZZZZZZ			13:38																				
ZZZZZZ			13:43																				
ZZZZZZ			13:47																				
ZZZZZZ			13:52																				
ZZZZZZ			13:56																				
ZZZZZZ			14:00																				
ZZZZZZ			14:05																				
ZZZZZZ			14:09																				
CCV 580-64691/70			14:14																				
CCB 580-64691/71			14:18																				
ZZZZZZ			14:27																				
ZZZZZZ			14:32																				
ZZZZZZ			14:36																				
ZZZZZZ			14:41																				
ZZZZZZ			14:45																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Instrument ID: SEA029 Method: 7471A

Start Date: 05/28/2010 06:33 End Date: 05/28/2010 18:07

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			14:50																				
ZZZZZZ			14:54																				
ZZZZZZ			14:58																				
CCV 580-64691/80	1		15:03	X																			
CCB 580-64691/81	1		15:08	X																			
MB 580-64512/19-A	1	T	15:12	X																			
LCS 580-64512/20-A	1	T	15:17	X																			
LCSD 580-64512/21-A	1	T	15:21	X																			
LCSSRM 580-64512/22-A	2	T	15:26	X																			
ZZZZZZ			15:30																				
ZZZZZZ			15:35																				
ZZZZZZ			15:39																				
ZZZZZZ			15:44																				
ZZZZZZ			15:49																				
CCV 580-64691/91	1		15:54	X																			
CCB 580-64691/92	1		15:58	X																			
580-19399-20	500	T	16:02	X																			
580-19399-21	5000	T	16:07	X																			
580-19399-22	500	T	16:11	X																			
580-19399-23	500	T	16:15	X																			
580-19399-24	50000	T	16:20	X																			
580-19399-25	50000	T	16:24	X																			
580-19399-26	500	T	16:29	X																			
580-19399-27	500	T	16:33	X																			
580-19399-28	500	T	16:37	X																			
580-19399-29	500	T	16:42	X																			
CCV 580-64691/103	1		16:46	X																			
CCB 580-64691/104	1		16:51	X																			
580-19399-30	10	T	16:56	X																			
580-19399-31	500	T	17:00	X																			
580-19399-32	100	T	17:04	X																			
CCV 580-64691/108	1		17:09	X																			
CCB 580-64691/109	1		17:13	X																			
ZZZZZZ			17:44																				
CCV 580-64691/111			18:02																				
CCB 580-64691/112			18:07																				

Prep Types

T = Total/NA

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/27/2010 End Date: 05/28/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li	Q	Element Li	Q	Element Sc	Q	Element Sc	Q	Element Ge	Q
ICV 580-64718/7	14:16	93		93		99		97		99	
ICB 580-64718/8	14:22	94		97		99		98		99	
CRI 580-64718/9	14:35			95		96		98		96	
ICSA 580-64718/10	14:41	70		72		89		82		85	
ICSAB 580-64718/11	14:47	70		72		85		77		81	
CCV 580-64718/44	18:44	79		80		68		93		71	
CCB 580-64718/45	18:51	79		82		70		95		73	
MB 580-64514/21-A	18:58					69		94			
LCS 580-64514/22-A	19:49					65		90			
LCSD 580-64514/23-A	19:56					68		91			
LCSSRM	20:03					70		97			
CCV 580-64718/56	20:10	81		83		66		91		69	
CCB 580-64718/57	20:17	81		84		66		92		68	
580-19399-1	20:46					64		93			
580-19399-2	20:53					65		102			
580-19399-3	21:00					66		102			
580-19399-4	21:07					63		99			
580-19399-5	21:14					61		96			
580-19399-6	21:21					63		97			
580-19399-7	21:28					57		96			
CCV 580-64718/68	21:35	74		77		59		84		61	
CCB 580-64718/69	21:43	74		75		65		86		68	
580-19399-8	21:50					63		97			
580-19399-9	21:57					58		95			
580-19399-10	22:04					59		96			
580-19399-11	22:11					56		95			
580-19399-12	22:18					57		94			
580-19399-13	22:25					55		94			
CCV 580-64718/76	22:32	72		72		57		81		58	
CCB 580-64718/77	22:39	69		70		60		83		63	
CCV 580-64718/105	02:00	68		71		56		85		58	
CCB 580-64718/106	02:07	69		71		53		86		55	
MB 580-64536/21-A	02:14					54		86			
580-19399-14 SD	02:21			75		57		85		58	
580-19399-14	02:28					56		78			
580-19399-14 DU	02:35					56		77			
580-19399-14 MS	02:42					55		77			
580-19399-14 MSD	02:49					57		78			
580-19399-14 PDS	02:57			70		56		78		56	
LCS 580-64536/22-A	03:04					54		77			
LCSD 580-64536/23-A	03:11					54		77			
LCSSRM	03:18					57		79			

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15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/27/2010 End Date: 05/28/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li	Q	Element Li	Q	Element Sc	Q	Element Sc	Q	Element Ge	Q
CCV 580-64718/117	03:25	68		70		58		80		61	
CCB 580-64718/118	03:32	66		69		58		81		61	
580-19399-15	03:39					60		86			
580-19399-16	03:47					57		83			
580-19399-17	03:54					57		86			
580-19399-18	04:01					56		87			
580-19399-19	04:08					54		88			
580-19399-20	04:15					48		86			
580-19399-21	04:22					47		77			
580-19399-22	04:29					47		81			
580-19399-23	04:36					47		79			
580-19399-24	04:43					48		78			
CCV 580-64718/129	04:50	75		77		49		79		50	
CCB 580-64718/130	04:58	69		70		51		78		52	
580-19399-25	05:05					52		78			
580-19399-26	05:12					51		80			
580-19399-27	05:19					51		79			
580-19399-28	05:26					51		85			
580-19399-29	05:33					47		82			
580-19399-30	05:41					46		83			
CCV 580-64718/137	05:48	72		73		47		77		48	
CCB 580-64718/138	05:55	69		71		45		78		48	
MB 580-64541/21-A	06:02					45		77			
580-19399-31 SD	06:09			79		48		83		48	
580-19399-31	06:17					52		83			
580-19399-31 DU	06:24					51		79			
580-19399-31 MS	06:31					48		74			
580-19399-31 MSD	06:38					47		78			
580-19399-31 PDS	06:45			79		48		78		48	
LCS 580-64541/22-A	06:52					44		75			
LCSD 580-64541/23-A	06:59					44		75			
LCSSRM	07:07					47		78			
CCV 580-64718/149	07:14	74		74		50		80		52	
CCB 580-64718/150	07:21	71		72		46		79		49	
580-19399-32	07:28					53		79			
CCV 580-64718/161	08:39	80		82		44		85		45	
CCB 580-64718/162	08:46	82		83		43		87		44	
ICSA 580-64718/171	09:50	64		66		38		79		38	
ICSAB 580-64718/172	09:58	64		66		38		75		36	

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15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/27/2010 End Date: 05/28/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Ge	Q	Element Ge	Q	Element Rh	Q	Element Rh	Q	Element Ho	Q
ICV 580-64718/7	14:16	99		98		96		97		98	
ICB 580-64718/8	14:22	100		97		98		99		99	
CRI 580-64718/9	14:35	100				99		100		98	
ICSA 580-64718/10	14:41	81		79		72		76		85	
ICSAB 580-64718/11	14:47	76		78		69		74		85	
CCV 580-64718/44	18:44	98		97		96		98		99	
CCB 580-64718/45	18:51	100		97		99		100		100	
MB 580-64514/21-A	18:58					97		95		97	
LCS 580-64514/22-A	19:49					94		88		90	
LCSD 580-64514/23-A	19:56					94		95		98	
LCSSRM	20:03					95		94		96	
CCV 580-64718/56	20:10	95		94		91		93		95	
CCB 580-64718/57	20:17	95		93		95		95		94	
580-19399-1	20:46					83		87		92	
580-19399-2	20:53					92		97		99	
580-19399-3	21:00					92		94		97	
580-19399-4	21:07					92		96		98	
580-19399-5	21:14					84		87		92	
580-19399-6	21:21					83		86		93	
580-19399-7	21:28					84		88		94	
CCV 580-64718/68	21:35	89		90		88		90		93	
CCB 580-64718/69	21:43	92		90		93		93		94	
580-19399-8	21:50					85		89		94	
580-19399-9	21:57					88		95		97	
580-19399-10	22:04					88		93		96	
580-19399-11	22:11					86		90		95	
580-19399-12	22:18					84		88		94	
580-19399-13	22:25					86		89		94	
CCV 580-64718/76	22:32	86		87		85		88		93	
CCB 580-64718/77	22:39	89		86		90		89		92	
CCV 580-64718/105	02:00	91		92		89		92		96	
CCB 580-64718/106	02:07	92		90		92		93		95	
MB 580-64536/21-A	02:14					92		93		95	
580-19399-14 SD	02:21	87				86		87		93	
580-19399-14	02:28					74		77		86	
580-19399-14 DU	02:35					73		77		86	
580-19399-14 MS	02:42					82		83		90	
580-19399-14 MSD	02:49					81		83		90	
580-19399-14 PDS	02:57	81				81		82		90	
LCS 580-64536/22-A	03:04					84		85		91	
LCSD 580-64536/23-A	03:11					85		85		92	
LCSSRM	03:18					83		85		91	

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15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/27/2010 End Date: 05/28/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Ge	Q	Element Ge	Q	Element Rh	Q	Element Rh	Q	Element Ho	Q
CCV 580-64718/117	03:25	85		87		85		87		92	
CCB 580-64718/118	03:32	87		86		88		88		91	
580-19399-15	03:39					82		85		93	
580-19399-16	03:47					80		81		89	
580-19399-17	03:54					79		82		90	
580-19399-18	04:01					81		87		93	
580-19399-19	04:08					83		87		94	
580-19399-20	04:15					82		84		91	
580-19399-21	04:22					79		81		89	
580-19399-22	04:29					76		79		87	
580-19399-23	04:36					80		83		90	
580-19399-24	04:43					84		85		89	
CCV 580-64718/129	04:50	83		86		84		85		91	
CCB 580-64718/130	04:58	85		81		86		84		88	
580-19399-25	05:05					85		87		90	
580-19399-26	05:12					86		87		90	
580-19399-27	05:19					86		87		89	
580-19399-28	05:26					80		83		91	
580-19399-29	05:33					78		81		89	
580-19399-30	05:41					80		85		92	
CCV 580-64718/137	05:48	82		84		82		85		89	
CCB 580-64718/138	05:55	84		83		86		86		90	
MB 580-64541/21-A	06:02					86		87		90	
580-19399-31 SD	06:09	85				84		87		91	
580-19399-31	06:17					78		80		87	
580-19399-31 DU	06:24					74		77		85	
580-19399-31 MS	06:31					77		80		86	
580-19399-31 MSD	06:38					80		82		88	
580-19399-31 PDS	06:45	82				82		86		89	
LCS 580-64541/22-A	06:52					82		83		88	
LCSD 580-64541/23-A	06:59					82		83		88	
LCSSRM	07:07					82		86		90	
CCV 580-64718/149	07:14	85		87		85		89		93	
CCB 580-64718/150	07:21	85		84		87		87		91	
580-19399-32	07:28					75		79		86	
CCV 580-64718/161	08:39	90		97		90		96		97	
CCB 580-64718/162	08:46	93		95		94		97		96	
ICSA 580-64718/171	09:50	81		85		73		81		87	
ICSAB 580-64718/172	09:58	78		85		71		80		87	

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ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/27/2010 End Date: 05/28/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Lu	Q	Element Bi	Q	Element	Q	Element	Q	Element	Q
ICV 580-64718/7	14:16	100		96							
ICB 580-64718/8	14:22	100		99							
CRI 580-64718/9	14:35	99									
ICSA 580-64718/10	14:41	87		77							
ICSAB 580-64718/11	14:47	86		76							
CCV 580-64718/44	18:44	100		98							
CCB 580-64718/45	18:51	100		100							
MB 580-64514/21-A	18:58	97									
LCS 580-64514/22-A	19:49	90									
LCSD 580-64514/23-A	19:56	97									
LCSSRM	20:03	95									
CCV 580-64718/56	20:10	96		94							
CCB 580-64718/57	20:17	95		95							
580-19399-1	20:46	92									
580-19399-2	20:53	99									
580-19399-3	21:00	98									
580-19399-4	21:07	97									
580-19399-5	21:14	92									
580-19399-6	21:21	94									
580-19399-7	21:28	93									
CCV 580-64718/68	21:35	94		92							
CCB 580-64718/69	21:43	94		95							
580-19399-8	21:50	94									
580-19399-9	21:57	98									
580-19399-10	22:04	97									
580-19399-11	22:11	95									
580-19399-12	22:18	94									
580-19399-13	22:25	93									
CCV 580-64718/76	22:32	93		91							
CCB 580-64718/77	22:39	92		94							
CCV 580-64718/105	02:00	97		93							
CCB 580-64718/106	02:07	94		96							
MB 580-64536/21-A	02:14	95									
580-19399-14 SD	02:21	94									
580-19399-14	02:28	87									
580-19399-14 DU	02:35	88									
580-19399-14 MS	02:42	91									
580-19399-14 MSD	02:49	91									
580-19399-14 PDS	02:57	90									
LCS 580-64536/22-A	03:04	90									
LCSD 580-64536/23-A	03:11	92									
LCSSRM	03:18	92									

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15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/27/2010 End Date: 05/28/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Lu	Q	Element Bi	Q	Element	Q	Element	Q	Element	Q
CCV 580-64718/117	03:25	92		90							
CCB 580-64718/118	03:32	92		94							
580-19399-15	03:39	93									
580-19399-16	03:47	89									
580-19399-17	03:54	91									
580-19399-18	04:01	93									
580-19399-19	04:08	93									
580-19399-20	04:15	91									
580-19399-21	04:22	90									
580-19399-22	04:29	88									
580-19399-23	04:36	90									
580-19399-24	04:43	91									
CCV 580-64718/129	04:50	91		89							
CCB 580-64718/130	04:58	88		89							
580-19399-25	05:05	90									
580-19399-26	05:12	90									
580-19399-27	05:19	90									
580-19399-28	05:26	92									
580-19399-29	05:33	89									
580-19399-30	05:41	92									
CCV 580-64718/137	05:48	90		89							
CCB 580-64718/138	05:55	91		92							
MB 580-64541/21-A	06:02	91									
580-19399-31 SD	06:09	92									
580-19399-31	06:17	88									
580-19399-31 DU	06:24	86									
580-19399-31 MS	06:31	86									
580-19399-31 MSD	06:38	88									
580-19399-31 PDS	06:45	89									
LCS 580-64541/22-A	06:52	89									
LCSD 580-64541/23-A	06:59	89									
LCSSRM	07:07	91									
CCV 580-64718/149	07:14	92		91							
CCB 580-64718/150	07:21	91		92							
580-19399-32	07:28	87									
CCV 580-64718/161	08:39	97		94							
CCB 580-64718/162	08:46	96		97							
ICSA 580-64718/171	09:50	87		78							
ICSAB 580-64718/172	09:58	87		77							

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15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/28/2010 End Date: 05/29/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li	Q	Element Li	Q	Element Sc	Q	Element Sc	Q	Element Ge	Q
ICV 580-64756/7	11:58	98		99		89		100		88	
ICB 580-64756/8	12:04	97		98		92		99		90	
CRI 580-64756/9	12:16					91		101		89	
ICSA 580-64756/10	12:23	87		88		80		94		73	
ICSAB 580-64756/11	12:29	87		88		74		90		67	
CCV 580-64756/44	16:07	98		95		36		93		34	
CCB 580-64756/45	16:13	96		96		39		94		36	
MB 580-64514/21-A	16:19					41		94			
LCS 580-64514/22-A	17:02					39		88			
LCSD 580-64514/23-A	17:08					40		90			
LCSSRM	17:14					40		90			
CCV 580-64756/56	17:21	93		92		38		88		36	
CCB 580-64756/57	17:27	96		94		36		91		35	
580-19399-1	17:51					30		90			
580-19399-2	17:57					28		95			
580-19399-3	18:03					28		96			
580-19399-4	18:09					27		94			
580-19399-5	18:15					29		94			
580-19399-6	18:21					26		101			
580-19399-7	18:28					21		98			
CCV 580-64756/68	18:34	91		91		22		86		19	
CCB 580-64756/69	18:40	88		87		24		87		22	
580-19399-8	18:46					27		99			
580-19399-9	18:52					22		95			
580-19399-10	18:58					22		92			
580-19399-11	19:04					22		94			
580-19399-12	19:10					20		96			
580-19399-13	19:16					19		94			
CCV 580-64756/76	19:22	89		87		20		84		17	
CCB 580-64756/77	19:29	86		87		22		86		20	
CCV 580-64756/105	22:21	86		85		28		88		25	
CCB 580-64756/106	22:27	88		87		28		90		26	
MB 580-64536/21-A	22:33					28		89			
580-19399-14 SD	22:39			91		27		87		24	
580-19399-14	22:45					26		87			
580-19399-14 DU	22:51					27		83			
580-19399-14 MS	22:57					24		81			
580-19399-14 MSD	23:03					29		82			
580-19399-14 PDS	23:09			85		29		82		27	
LCS 580-64536/22-A	23:16					29		81			
LCSD 580-64536/23-A	23:22					29		81			
LCSSRM	23:28					31		82			

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ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/28/2010 End Date: 05/29/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li	Q	Element Li	Q	Element Sc	Q	Element Sc	Q	Element Ge	Q
CCV 580-64756/117	23:34	82		82		31		83		30	
CCB 580-64756/118	23:41	81		81		38		85		35	
580-19399-15	23:47					33		88			
580-19399-16	23:53					29		87			
580-19399-17	23:59					26		89			
580-19399-18	00:05					21		93			
580-19399-19	00:11					22		89			
580-19399-20	00:17					21		91			
580-19399-21	00:23					19		84			
580-19399-22	00:29					19		88			
580-19399-23	00:35					18		83			
580-19399-24	00:42					19		84			
CCV 580-64756/129	00:48	88		88		20		81		18	
CCB 580-64756/130	00:54	85		87		21		84		19	
580-19399-25	01:00					21		83			
580-19399-26	01:06					23		82			
580-19399-27	01:12					25		83			
580-19399-28	01:19					26		88			
580-19399-29	01:25					22		87			
580-19399-30	01:31					22		86			
CCV 580-64756/137	01:37	87		86		21		81		19	
CCB 580-64756/138	01:43	84		85		22		83		20	
MB 580-64541/21-A	01:49					21		85			
580-19399-31 SD	01:55			91		22		85		19	
580-19399-31	02:01					23		88			
580-19399-31 DU	02:08					24		85			
580-19399-31 MS	02:14					24		81			
580-19399-31 MSD	02:20					24		80			
580-19399-31 PDS	02:26			88		23		80		20	
LCS 580-64541/22-A	02:32					22		79			
LCSD 580-64541/23-A	02:38					24		80			
LCSSRM	02:44					25		81			
CCV 580-64756/149	02:51	83		83		26		80		24	
CCB 580-64756/150	02:57	81		80		27		81		25	
580-19399-32	03:03					30		86			
CCV 580-64756/161	04:04	86		86		22		81		19	
CCB 580-64756/162	04:10	87		86		22		82		20	
ICSA 580-64756/171	05:05	76		75		22		77		19	
ICSAB 580-64756/172	05:11	77		77		21		76		17	

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ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/28/2010 End Date: 05/29/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Ge	Q	Element Ge	Q	Element Rh	Q	Element Rh	Q	Element Ho	Q
ICV 580-64756/7	11:58	98		100		96		99		101	
ICB 580-64756/8	12:04	100		99		99		100		100	
CRI 580-64756/9	12:16	99				99		100		101	
ICSA 580-64756/10	12:23	89		92		78		81		91	
ICSAB 580-64756/11	12:29	85		89		76		81		89	
CCV 580-64756/44	16:07	95		101		94		101		103	
CCB 580-64756/45	16:13	97		100		98		100		101	
MB 580-64514/21-A	16:19					98		101		101	
LCS 580-64514/22-A	17:02					92		95		98	
LCSD 580-64514/23-A	17:08					93		95		99	
LCSSRM	17:14					90		92		99	
CCV 580-64756/56	17:21	90		96		90		93		98	
CCB 580-64756/57	17:27	92		95		94		95		98	
580-19399-1	17:51					81		87		94	
580-19399-2	17:57					86		95		100	
580-19399-3	18:03					88		94		97	
580-19399-4	18:09					87		92		97	
580-19399-5	18:15					83		88		94	
580-19399-6	18:21					84		91		96	
580-19399-7	18:28					86		93		98	
CCV 580-64756/68	18:34	89		97		89		95		98	
CCB 580-64756/69	18:40	91		95		93		94		98	
580-19399-8	18:46					86		92		99	
580-19399-9	18:52					88		91		97	
580-19399-10	18:58					85		90		96	
580-19399-11	19:04					85		91		98	
580-19399-12	19:10					84		91		97	
580-19399-13	19:16					85		89		95	
CCV 580-64756/76	19:22	87		94		88		92		99	
CCB 580-64756/77	19:29	89		93		92		93		98	
CCV 580-64756/105	22:21	92		97		91		96		100	
CCB 580-64756/106	22:27	93		97		95		97		100	
MB 580-64536/21-A	22:33					95		96		100	
580-19399-14 SD	22:39	88				88		93		98	
580-19399-14	22:45					80		82		93	
580-19399-14 DU	22:51					77		80		91	
580-19399-14 MS	22:57					85		86		95	
580-19399-14 MSD	23:03					84		88		95	
580-19399-14 PDS	23:09	83				85		87		95	
LCS 580-64536/22-A	23:16					88		89		96	
LCSD 580-64536/23-A	23:22					88		90		96	
LCSSRM	23:28					85		89		95	

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ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/28/2010 End Date: 05/29/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Ge	Q	Element Ge	Q	Element Rh	Q	Element Rh	Q	Element Ho	Q
CCV 580-64756/117	23:34	86		92		87		91		97	
CCB 580-64756/118	23:41	89		91		92		92		97	
580-19399-15	23:47					83		87		96	
580-19399-16	23:53					83		85		94	
580-19399-17	23:59					81		88		97	
580-19399-18	00:05					85		90		97	
580-19399-19	00:11					84		89		97	
580-19399-20	00:17					85		91		99	
580-19399-21	00:23					84		87		95	
580-19399-22	00:29					80		86		95	
580-19399-23	00:35					85		89		96	
580-19399-24	00:42					90		94		98	
CCV 580-64756/129	00:48	85		92		86		92		98	
CCB 580-64756/130	00:54	88		92		91		94		99	
580-19399-25	01:00					90		92		96	
580-19399-26	01:06					90		93		96	
580-19399-27	01:12					90		94		97	
580-19399-28	01:19					83		88		96	
580-19399-29	01:25					82		85		94	
580-19399-30	01:31					82		86		95	
CCV 580-64756/137	01:37	86		93		86		92		97	
CCB 580-64756/138	01:43	88		92		91		95		97	
MB 580-64541/21-A	01:49					92		95		99	
580-19399-31 SD	01:55	86				87		93		98	
580-19399-31	02:01					82		85		94	
580-19399-31 DU	02:08					80		83		92	
580-19399-31 MS	02:14					83		87		94	
580-19399-31 MSD	02:20					84		88		94	
580-19399-31 PDS	02:26	82				83		87		94	
LCS 580-64541/22-A	02:32					87		89		95	
LCSD 580-64541/23-A	02:38					87		89		96	
LCSSRM	02:44					85		89		96	
CCV 580-64756/149	02:51	84		89		85		89		96	
CCB 580-64756/150	02:57	86		89		89		91		96	
580-19399-32	03:03					81		83		93	
CCV 580-64756/161	04:04	85		92		86		91		96	
CCB 580-64756/162	04:10	86		90		89		91		96	
ICSA 580-64756/171	05:05	78		83		72		77		86	
ICSAB 580-64756/172	05:11	76		84		70		77		86	

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ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/28/2010 End Date: 05/29/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Lu	Q	Element Bi	Q	Element	Q	Element	Q	Element	Q
ICV 580-64756/7	11:58	99		97							
ICB 580-64756/8	12:04	98		100							
CRI 580-64756/9	12:16	99									
ICSA 580-64756/10	12:23	88		79							
ICSAB 580-64756/11	12:29	87		78							
CCV 580-64756/44	16:07	100		98							
CCB 580-64756/45	16:13	99		101							
MB 580-64514/21-A	16:19	98									
LCS 580-64514/22-A	17:02	96									
LCSD 580-64514/23-A	17:08	97									
LCSSRM	17:14	96									
CCV 580-64756/56	17:21	96		95							
CCB 580-64756/57	17:27	97		99							
580-19399-1	17:51	92									
580-19399-2	17:57	97									
580-19399-3	18:03	95									
580-19399-4	18:09	95									
580-19399-5	18:15	92									
580-19399-6	18:21	94									
580-19399-7	18:28	94									
CCV 580-64756/68	18:34	96		95							
CCB 580-64756/69	18:40	96		98							
580-19399-8	18:46	96									
580-19399-9	18:52	94									
580-19399-10	18:58	95									
580-19399-11	19:04	96									
580-19399-12	19:10	95									
580-19399-13	19:16	94									
CCV 580-64756/76	19:22	97		96							
CCB 580-64756/77	19:29	96		97							
CCV 580-64756/105	22:21	98		96							
CCB 580-64756/106	22:27	98		99							
MB 580-64536/21-A	22:33	97									
580-19399-14 SD	22:39	95									
580-19399-14	22:45	92									
580-19399-14 DU	22:51	90									
580-19399-14 MS	22:57	94									
580-19399-14 MSD	23:03	95									
580-19399-14 PDS	23:09	94									
LCS 580-64536/22-A	23:16	95									
LCSD 580-64536/23-A	23:22	95									
LCSSRM	23:28	94									

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15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/28/2010 End Date: 05/29/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Lu	Q	Element Bi	Q	Element	Q	Element	Q	Element	Q
CCV 580-64756/117	23:34	95		93							
CCB 580-64756/118	23:41	95		97							
580-19399-15	23:47	94									
580-19399-16	23:53	93									
580-19399-17	23:59	95									
580-19399-18	00:05	95									
580-19399-19	00:11	94									
580-19399-20	00:17	96									
580-19399-21	00:23	93									
580-19399-22	00:29	93									
580-19399-23	00:35	94									
580-19399-24	00:42	96									
CCV 580-64756/129	00:48	94		94							
CCB 580-64756/130	00:54	96		97							
580-19399-25	01:00	93									
580-19399-26	01:06	94									
580-19399-27	01:12	95									
580-19399-28	01:19	94									
580-19399-29	01:25	91									
580-19399-30	01:31	93									
CCV 580-64756/137	01:37	95		94							
CCB 580-64756/138	01:43	95		98							
MB 580-64541/21-A	01:49	97									
580-19399-31 SD	01:55	95									
580-19399-31	02:01	92									
580-19399-31 DU	02:08	90									
580-19399-31 MS	02:14	93									
580-19399-31 MSD	02:20	93									
580-19399-31 PDS	02:26	93									
LCS 580-64541/22-A	02:32	94									
LCSD 580-64541/23-A	02:38	94									
LCSSRM	02:44	94									
CCV 580-64756/149	02:51	93		93							
CCB 580-64756/150	02:57	94		96							
580-19399-32	03:03	91									
CCV 580-64756/161	04:04	95		94							
CCB 580-64756/162	04:10	96		95							
ICSA 580-64756/171	05:05	84		76							
ICSAB 580-64756/172	05:11	84		76							

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WinHg Database 1.4

File Utility Help

RN↓ RN↑ ?

Protocol Hg-SEA29 Dataset/Proto 052710 /Hg-SEA29

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

A

B 8.96259e-6

C -7.90153e-2

Rho .999896

Type Linear

☑ Calibrated

☑ Accepted

Accept

Rel. Abs.
1118840

Accepted

New

Include S1 Rep 1 ☑ 2 ☑ 3 ☑ 4 ☐ 5 ☐

Conc. 10.0

S	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3
01	.00000	-.045	-.045	3818	507	3246	4001	4208
02	.50000	.481	-.019	62482	1.65%	62140	61667	63636
03	1.0000	.979	-.021	118085	0.23%	118308	118161	117786
04	2.0000	2.05	.050	237582	0.72%	239516	236939	236288
05	5.0000	5.09	.085	576227	0.63%	575818	572845	580015
06	10.000	9.95	-.051	1118841	0.1%	1120103	1117963	1118456

Ready CAP NUM

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Standard: 1 Rep: 1             Seq:  0       08:41:29 27 May 10   HG

Hg    .000    PPB      3246
                                                                      =
*** Standard: 1 Rep: 2             Seq:  1       08:45:58 27 May 10   HG

Hg    .000    PPB      4001
                                                                      =
*** Standard: 1 Rep: 3             Seq:  2       08:50:18 27 May 10   HG

Hg    .000    PPB      4208
                                                                      =
*** Standard: 2 Rep: 1             Seq:  3       08:54:57 27 May 10   HG

Hg    .500    PPB      62140
                                                                      =
*** Standard: 2 Rep: 2             Seq:  4       08:59:16 27 May 10   HG

Hg    .500    PPB      61667
                                                                      =
*** Standard: 2 Rep: 3             Seq:  5       09:03:38 27 May 10   HG

Hg    .500    PPB      63636
                                                                      =
*** Standard: 3 Rep: 1             Seq:  6       09:08:32 27 May 10   HG

Hg    1.00    PPB      118308
                                                                      =
*** Standard: 3 Rep: 2             Seq:  7       09:12:52 27 May 10   HG

Hg    1.00    PPB      118161
                                                                      =
*** Standard: 3 Rep: 3             Seq:  8       09:17:35 27 May 10   HG

Hg    1.00    PPB      117786
                                                                      =
*** Standard: 4 Rep: 1             Seq:  9       09:21:57 27 May 10   HG

Hg    2.00    PPB      239516
                                                                      =
*** Standard: 4 Rep: 2             Seq:  10      09:26:17 27 May 10   HG

Hg    2.00    PPB      236939
                                                                      =
*** Standard: 4 Rep: 3             Seq:  11      09:30:40 27 May 10   HG

Hg    2.00    PPB      236288
                                                                      =
*** Standard: 5 Rep: 1             Seq:  12      09:35:04 27 May 10   HG

Hg    5.00    PPB      575818
                                                                      =
*** Standard: 5 Rep: 2             Seq:  13      09:39:25 27 May 10   HG

Hg    5.00    PPB      572845
                                                                      =
*** Standard: 5 Rep: 3             Seq:  14      09:43:49 27 May 10   HG

Hg    5.00    PPB      580015
                                                                      =
*** Standard: 6 Rep: 1             Seq:  15      09:48:13 27 May 10   HG

Hg    10.0    PPB      1120102
                                                                      =
```

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Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------------

*** Standard: 6 Rep: 2              Seq:  16      09:52:46 27 May 10   HG

Hg    10.0    PPB      1117963
                                                                          =
*** Standard: 6 Rep: 3              Seq:  17      09:57:16 27 May 10   HG

Hg    10.0    PPB      1118456
                                                                          =
*** Check Standard: 2  Ck24PPB      Seq:  18      10:01:36 27 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          105.     4.19    4.00   PPB        .000
                                                                          =
*** Check Standard: 1  Ck1BLANK     Seq:  19      10:05:59 27 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.074     .200     PPB        .000
                                                                          =
*** Check Standard: 3  Ck30.2PPB    Seq:  20      10:10:37 27 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          61.8     .124    .200   PPB        .000
                                                                          =
*** Check Standard: 4  Ck4  5PPB    Seq:  32      12:44:45 27 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          96.1     4.80    5.00   PPB        .000
                                                                          =
*** Check Standard: 1  Ck1  BLANK   Seq:  33      12:49:07 27 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.070     .200     PPB        .000
                                                                          =
*** Sample ID: 580-521891            Seq:  34     12:54:04 27 May 10   HG
                            FCW(#SEA29)64500
Hg   -.066    PPB       .000     -.066
                                                                          =
===============================================================================
*** Sample ID: 580-521892            Seq:  35     12:58:22 27 May 10   HG
                            FCW(#SEA29)64500
Hg    1.92    PPB       .000      1.92
                                                                          =
===============================================================================
*** Sample ID: 580-521893            Seq:  36     13:03:04 27 May 10   HG
                            FCW(#SEA29)64500
Hg    1.95    PPB       .000      1.95
                                                                          =
===============================================================================
*** Sample ID: 580-521894            Seq:  37     13:07:33 27 May 10   HG
                            FCW(#SEA29) 2X
Hg    6.47    PPB       .000      6.47
                                                                          =
===============================================================================
*** Sample ID: 580-521868            Seq:  40     13:23:05 27 May 10   HG
                            FCW(#SEA29) 10X
Hg    4.61    PPB       .000      4.61
                                                                          =
===============================================================================
*** Sample ID: 580-521869            Seq:  41     13:28:47 27 May 10   HG
                            FCW(#SEA29) 10X
Hg    4.03    PPB       .000      4.03
                                                                          =
===============================================================================
*** Sample ID: 580-521870            Seq:  42     13:33:17 27 May 10   HG
                            FCW(#SEA29) 10X
Hg    4.84    PPB       .000      4.84
                                                                          =
===============================================================================
```

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Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: 580-521871            Seq:  43     13:37:47 27 May 10   HG
                            FCW(#SEA29) 10X
Hg    4.85    PPB       .000      4.85
                                                                                =
*** Check Standard: 4  Ck4  5PPB    Seq:  44      13:42:26 27 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          108.     5.38    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1  BLANK   Seq:  45      13:46:50 27 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.066     .200     PPB        .000
                                                                                =
*** Sample ID: 580-521872            Seq:  46     13:51:09 27 May 10   HG
                            FCW(#SEA29) 1000X
Hg    .238    PPB       .000      .238
                                                                                =
================================================================================
*** Sample ID: 580-521877            Seq:  51     14:14:11 27 May 10   HG
                            FCW(#SEA29) 1000X
Hg    .600    PPB       .000      .600
                                                                                =
================================================================================
*** Sample ID: 580-521879            Seq:  53     14:23:04 27 May 10   HG
                            FCW(#SEA29) 1000X
Hg    1.70    PPB       .000      1.70
                                                                                =
================================================================================
*** Sample ID: 580-521880            Seq:  54     14:27:26 27 May 10   HG
                            FCW(#SEA29) 1000X
Hg    .382    PPB       .000      .382
                                                                                =
================================================================================
*** Sample ID: 580-521881            Seq:  55     14:31:45 27 May 10   HG
                            FCW(#SEA29) 1000X
Hg    .560    PPB       .000      .560
                                                                                =
*** Check Standard: 4  Ck4  5PPB    Seq:  56      14:36:04 27 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     5.14    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1  BLANK   Seq:  57      14:40:26 27 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.068     .200     PPB        .000
                                                                                =
*** Sample ID: 580-521882            Seq:  58     14:44:45 27 May 10   HG
                            FCW(#SEA29) 1000X
Hg    1.59    PPB       .000      1.59
                                                                                =
================================================================================
*** Sample ID: 580-521883            Seq:  59     14:49:04 27 May 10   HG
                            FCW(#SEA29) 1000X
Hg    2.36    PPB       .000      2.36
                                                                                =
================================================================================
*** Sample ID: 580-521886            Seq:  62     15:03:41 27 May 10   HG
                            FCW(#SEA29) 1000X
Hg    .434    PPB       .000      .434
                                                                                =
================================================================================
*** Sample ID: 580-521888            Seq:  64     15:12:22 27 May 10   HG
                            FCW(#SEA29) 1000X
Hg    1.30    PPB       .000      1.30
                                                                                =
================================================================================
```

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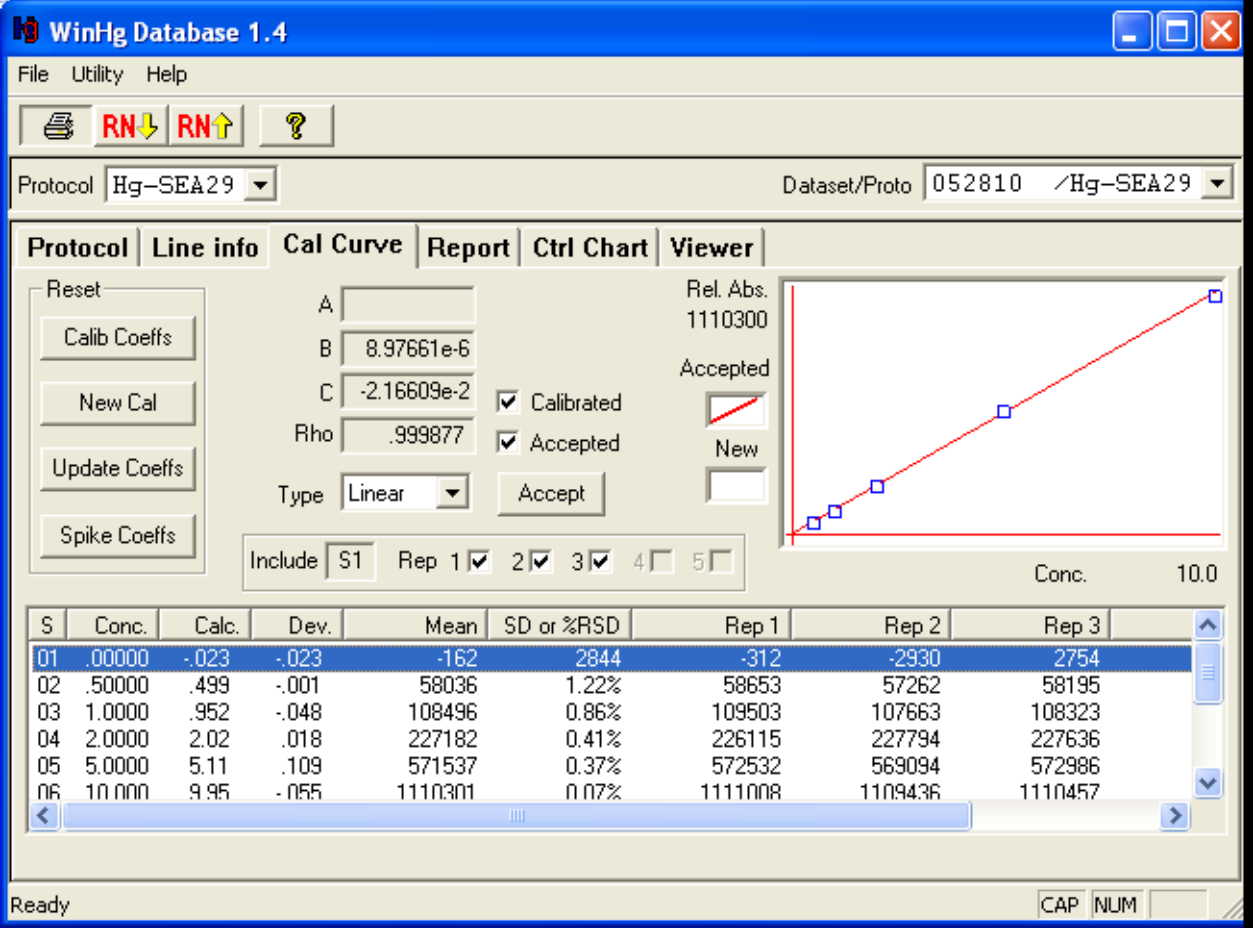
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: 580-521889            Seq:  65     15:16:42 27 May 10   HG
                            FCW(#SEA29) 1000X
Hg    1.64    PPB       .000      1.64
                                                                                =
================================================================================
*** Sample ID: 580-521890            Seq:  66     15:21:06 27 May 10   HG
                            FCW(#SEA29) 1000X
Hg    .889    PPB       .000      .889
                                                                                =
*** Check Standard: 4  Ck4  5PPB    Seq:  67      15:25:31 27 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          105.     5.25    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1  BLANK   Seq:  68      15:30:01 27 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.078     .200     PPB        .000
                                                                                =
*** Sample ID: 580-521875            Seq:  71     15:43:18 27 May 10   HG
                            FCW(#SEA29) 10X
Hg    3.47    PPB       .000      3.47
                                                                                =
================================================================================
*** Sample ID: 580-521876            Seq:  72     15:47:47 27 May 10   HG
                            FCW(#SEA29) 10X
Hg    11.1    PPB       .000      11.1
                                                                                =
================================================================================
*** Sample ID: 580-521878            Seq:  73     15:52:08 27 May 10   HG
                            FCW(#SEA29) 10X
Hg    3.96    PPB       .000      3.96
                                                                                =
================================================================================
*** Sample ID: 580-521884            Seq:  74     15:56:29 27 May 10   HG
                            FCW(#SEA29) 100X
Hg    1.80    PPB       .000      1.80
                                                                                =
================================================================================
*** Sample ID: 580-521885            Seq:  76     16:07:32 27 May 10   HG
                            FCW(#SEA29) 10000X
Hg    5.48    PPB       .000      5.48
                                                                                =
================================================================================
*** Sample ID: 580-521887            Seq:  77     16:11:52 27 May 10   HG
                            FCW(#SEA29) 10000X
Hg    1.37    PPB       .000      1.37
                                                                                =
================================================================================
*** Sample ID: 580-521873            Seq:  78     16:17:02 27 May 10   HG
                            FCW(#SEA29) 1X
Hg    1.24    PPB       .000      1.24
                                                                                =
================================================================================
*** Sample ID: 580-521874            Seq:  79     16:21:20 27 May 10   HG
                            FCW(#SEA29) 1X
Hg    .040    PPB       .000      .040
                                                                                =
*** Check Standard: 4  Ck4  5PPB    Seq:  80      16:26:11 27 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     5.13    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1  BLANK   Seq:  81      16:30:29 27 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.043     .200     PPB        .000
                                                                                =
```


WinHg Database 1.4
File Utility Help
RN RN
Protocol Hg-SEA29
Dataset/Proto 052810 /Hg-SEA29
Protocol Line info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 8.97661e-6
C -2.16609e-2
Rho .999877
Type Linear
Calibrated
Accepted
Accept
Rel. Abs.
1110300
Accepted
New
Include S1 Rep 1 2 3 4 5
Conc. 10.0
S Conc. Calc. Dev. Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 -.023 -.023 -162 2844 -312 -2930 2754
02 .50000 .499 -.001 58036 1.22% 58653 57262 58195
03 1.0000 .952 -.048 108496 0.86% 109503 107663 108323
04 2.0000 2.02 .018 227182 0.41% 226115 227794 227636
05 5.0000 5.11 .109 571537 0.37% 572532 569094 572986
06 10.000 9.95 -.055 1110301 0.07% 1111008 1109436 1110457
Ready
CAP NUM

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Standard: 1 Rep: 1             Seq:  0       06:33:37 28 May 10   HG

Hg    .000    PPB      -312
                                                                      =
*** Standard: 1 Rep: 2             Seq:  1       06:37:58 28 May 10   HG

Hg    .000    PPB      -2930
                                                                      =
*** Standard: 1 Rep: 3             Seq:  2       06:42:26 28 May 10   HG

Hg    .000    PPB      2754
                                                                      =
*** Standard: 2 Rep: 1             Seq:  3       06:46:59 28 May 10   HG

Hg    .500    PPB      58653
                                                                      =
*** Standard: 2 Rep: 2             Seq:  4       06:51:32 28 May 10   HG

Hg    .500    PPB      57262
                                                                      =
*** Standard: 2 Rep: 3             Seq:  5       06:55:50 28 May 10   HG

Hg    .500    PPB      58195
                                                                      =
*** Standard: 3 Rep: 1             Seq:  6       07:00:15 28 May 10   HG

Hg    1.00    PPB      109503
                                                                      =
*** Standard: 3 Rep: 2             Seq:  7       07:04:54 28 May 10   HG

Hg    1.00    PPB      107663
                                                                      =
*** Standard: 3 Rep: 3             Seq:  8       07:09:15 28 May 10   HG

Hg    1.00    PPB      108323
                                                                      =
*** Standard: 4 Rep: 1             Seq:  9       07:13:56 28 May 10   HG

Hg    2.00    PPB      226115
                                                                      =
*** Standard: 4 Rep: 2             Seq:  10      07:18:26 28 May 10   HG

Hg    2.00    PPB      227794
                                                                      =
*** Standard: 4 Rep: 3             Seq:  11      07:22:49 28 May 10   HG

Hg    2.00    PPB      227636
                                                                      =
*** Standard: 5 Rep: 1             Seq:  12      07:27:09 28 May 10   HG

Hg    5.00    PPB      572531
                                                                      =
*** Standard: 5 Rep: 2             Seq:  13      07:31:40 28 May 10   HG

Hg    5.00    PPB      569094
                                                                      =
*** Standard: 5 Rep: 3             Seq:  14      07:36:13 28 May 10   HG

Hg    5.00    PPB      572986
                                                                      =
*** Standard: 6 Rep: 1             Seq:  15      07:40:43 28 May 10   HG

Hg    10.0    PPB      1111008
                                                                      =
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Standard: 6 Rep: 2              Seq:  16      07:45:35 28 May 10   HG

Hg    10.0    PPB      1109436
                                                                              =
*** Standard: 6 Rep: 3              Seq:  17      07:50:24 28 May 10   HG

Hg    10.0    PPB      1110457
                                                                              =
*** Check Standard: 2  Ck2  4PPB    Seq:  18      07:56:53 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          106.     4.24    4.00   PPB        .000
                                                                              =
*** Check Standard: 1  Ck1  BLANK   Seq:  19      08:01:14 28 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.002     .200     PPB        .000
                                                                              =
*** Check Standard: 3  Ck3 0.2PPB   Seq:  20      08:05:34 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          84.4     .169    .200   PPB        .000
                                                                              =
*** Check Standard: 4  Ck4  5PPB    Seq:  52      10:34:04 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     5.12    5.00   PPB        .000
                                                                              =
*** Check Standard: 1  Ck1  BLANK   Seq:  53      10:38:37 28 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .003     .200     PPB        .000
                                                                              =
*** Sample ID: 580-522203            Seq:  54     10:43:00 28 May 10   HG
                           FCW(#SEA29)64538
Hg    .003    PPB       .000      .003
                                                                              =
==============================================================================
*** Sample ID: 580-522204            Seq:  55     10:47:43 28 May 10   HG
                           FCW(#SEA29)64538
Hg    2.14    PPB       .000      2.14
                                                                              =
==============================================================================
*** Sample ID: 580-522205            Seq:  56     10:52:11 28 May 10   HG
                           FCW(#SEA29)64538
Hg    2.12    PPB       .000      2.12
                                                                              =
==============================================================================
*** Sample ID: 580-522206            Seq:  57     10:56:29 28 May 10   HG
                           FCW(#SEA29) 2X
Hg    5.85    PPB       .000      5.85
                                                                              =
==============================================================================
*** Sample ID: 580-522182            Seq:  58     11:00:50 28 May 10   HG
                           FCW(#SEA29) 20X
Hg    4.63    PPB       .000      4.63
                                                                              =
==============================================================================
*** Sample ID: 580-522183            Seq:  59     11:05:14 28 May 10   HG
                           FCW(#SEA29) 20X
Hg    4.57    PPB       .000      4.57
                                                                              =
==============================================================================
*** Sample ID: 580-522184            Seq:  60     11:09:54 28 May 10   HG
                           FCW(#SEA29) 20X
Hg    4.56    PPB       .000      4.56
                                                                              =
==============================================================================
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: 580-522185            Seq:  61     11:14:34 28 May 10   HG
                            FCW(#SEA29) 20X
Hg    4.53    PPB       .000      4.53
                                                                                =
================================================================================
*** Sample ID: 580-522186            Seq:  62     11:19:24 28 May 10   HG
                            FCW(#SEA29) 20X
Hg    6.51    PPB       .000      6.51
                                                                                =
================================================================================
*** Sample ID: 580-522187            Seq:  63     11:23:57 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    1.20    PPB       .000      1.20
                                                                                =
*** Check Standard: 4  Ck4  5PPB    Seq:  64      11:28:36 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     5.15    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1  BLANK   Seq:  65      11:32:55 28 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.004     .200     PPB        .000
                                                                                =
*** Sample ID: 580-522188            Seq:  66     11:37:15 28 May 10   HG
                            FCW(#SEA29) 20X
Hg    4.87    PPB       .000      4.87
                                                                                =
================================================================================
*** Sample ID: 580-522189            Seq:  67     11:41:35 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    1.76    PPB       .000      1.76
                                                                                =
================================================================================
*** Sample ID: 580-522190            Seq:  68     11:45:53 28 May 10   HG
                            FCW(#SEA29) 20X
Hg    7.65    PPB       .000      7.65
                                                                                =
================================================================================
*** Sample ID: 580-522191            Seq:  69     11:50:12 28 May 10   HG
                            FCW(#SEA29) 20X
Hg    3.93    PPB       .000      3.93
                                                                                =
================================================================================
*** Sample ID: 580-522192            Seq:  70     11:55:51 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    .718    PPB       .000      .718
                                                                                =
================================================================================
*** Sample ID: 580-522193            Seq:  71     12:00:35 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    2.20    PPB       .000      2.20
                                                                                =
================================================================================
*** Sample ID: 580-522194            Seq:  72     12:04:54 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    2.68    PPB       .000      2.68
                                                                                =
================================================================================
*** Sample ID: 580-522195            Seq:  73     12:09:14 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    2.00    PPB       .000      2.00
                                                                                =
================================================================================
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: 580-522196            Seq:  74     12:13:39 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    3.33    PPB       .000      3.33
                                                                                =
================================================================================
*** Sample ID: 580-522197            Seq:  75     12:17:58 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    .663    PPB       .000      .663
                                                                                =
*** Check Standard: 4  Ck4  5PPB    Seq:  76      12:22:17 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     5.13    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1  BLANK   Seq:  77      12:26:36 28 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .018     .200     PPB        .000
                                                                                =
*** Sample ID: 580-522198            Seq:  78     12:31:15 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    .808    PPB       .000      .808
                                                                                =
================================================================================
*** Sample ID: 580-522199            Seq:  79     12:35:44 28 May 10   HG
                            FCW(#SEA29) 20X
Hg    4.38    PPB       .000      4.38
                                                                                =
================================================================================
*** Sample ID: 580-522200            Seq:  80     12:40:04 28 May 10   HG
                            FCW(#SEA29) 20X
Hg    5.61    PPB       .000      5.61
                                                                                =
================================================================================
*** Sample ID: 580-522201            Seq:  81     12:44:42 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    .578    PPB       .000      .578
                                                                                =
================================================================================
*** Sample ID: 580-522202            Seq:  82     12:49:14 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    .425    PPB       .000      .425
                                                                                =
*** Check Standard: 4  Ck4  5PPB    Seq:  83      12:53:52 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     5.16    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1  BLANK   Seq:  84      12:58:33 28 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .019     .200     PPB        .000
                                                                                =
*** Sample ID: 580-522307            Seq:  85     13:02:52 28 May 10   HG
                            FCW(#SEA29)64544
Hg   -.012    PPB       .000     -.012
                                                                                =
================================================================================
*** Sample ID: 580-522308            Seq:  86     13:07:11 28 May 10   HG
                            FCW(#SEA29)64544
Hg    2.13    PPB       .000      2.13
                                                                                =
================================================================================
*** Sample ID: 580-522309            Seq:  87     13:11:42 28 May 10   HG
                            FCW(#SEA29)64544
Hg    2.14    PPB       .000      2.14
                                                                                =
================================================================================
```

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Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: 580-522310            Seq:  88     13:16:05 28 May 10   HG
                            FCW(#SEA29) 2X
Hg    6.73    PPB       .000      6.73
                                                                                =
*** Check Standard: 4  Ck4  5PPB    Seq:  89      13:20:57 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     5.10    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1  BLANK   Seq:  90      13:25:37 28 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.006     .200     PPB        .000
                                                                                =
*** Sample ID: 580-522288            Seq:  91     13:29:57 28 May 10   HG
                            FCW(#SEA29) 50X
Hg    3.03    PPB       .000      3.03
                                                                                =
================================================================================
*** Sample ID: 580-522289            Seq:  92     13:34:17 28 May 10   HG
                            FCW(#SEA29) 50X
Hg    3.00    PPB       .000      3.00
                                                                                =
================================================================================
*** Sample ID: 580-522290            Seq:  93     13:38:37 28 May 10   HG
                            FCW(#SEA29) 50X
Hg    2.93    PPB       .000      2.93
                                                                                =
================================================================================
*** Sample ID: 580-522291            Seq:  94     13:43:12 28 May 10   HG
                            FCW(#SEA29) 50X
Hg    2.91    PPB       .000      2.91
                                                                                =
================================================================================
*** Sample ID: 580-522292            Seq:  95     13:47:35 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    .892    PPB       .000      .892
                                                                                =
================================================================================
*** Sample ID: 580-522293            Seq:  96     13:52:05 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    1.20    PPB       .000      1.20
                                                                                =
================================================================================
*** Sample ID: 580-522294            Seq:  97     13:56:35 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    7.26    PPB       .000      7.26
                                                                                =
================================================================================
*** Sample ID: 580-522295            Seq:  98     14:00:55 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    4.78    PPB       .000      4.78
                                                                                =
================================================================================
*** Sample ID: 580-522296            Seq:  99     14:05:27 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    3.19    PPB       .000      3.19
                                                                                =
================================================================================
*** Sample ID: 580-522297            Seq:  100    14:09:58 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    5.15    PPB       .000      5.15
                                                                                =
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Check Standard: 4  Ck4  5PPB    Seq:  101     14:14:26 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     5.15    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1  BLANK   Seq:  102     14:18:47 28 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .039     .200     PPB        .000
                                                                                =
*** Sample ID: 580-522299            Seq:  104    14:27:33 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    2.22    PPB       .000      2.22
                                                                                =
================================================================================
*** Sample ID: 580-522300            Seq:  105    14:32:03 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    7.15    PPB       .000      7.15
                                                                                =
================================================================================
*** Sample ID: 580-522301            Seq:  106    14:36:43 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    2.92    PPB       .000      2.92
                                                                                =
================================================================================
*** Sample ID: 580-522302            Seq:  107    14:41:15 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    1.71    PPB       .000      1.71
                                                                                =
================================================================================
*** Sample ID: 580-522303            Seq:  108    14:45:39 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    .572    PPB       .000      .572
                                                                                =
================================================================================
*** Sample ID: 580-522304            Seq:  109    14:50:13 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    3.32    PPB       .000      3.32
                                                                                =
================================================================================
*** Sample ID: 580-522305            Seq:  110    14:54:32 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    3.60    PPB       .000      3.60
                                                                                =
================================================================================
*** Sample ID: 580-522306            Seq:  111    14:58:51 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    5.22    PPB       .000      5.22
                                                                                =
*** Check Standard: 5  Ck5  5PPB    Seq:  112     15:03:42 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     5.13    5.00   PPB        .000
                                                                                =
*** Sample ID: BLANK                 Seq:  113    15:08:15 28 May 10   HG
                            FCW(#SEA29)
Hg   -.003    PPB       .000     -.003
                                                                                =
================================================================================
*** Sample ID: 580-521993            Seq:  114    15:12:41 28 May 10   HG
                            FCW(#SEA29)64512
Hg    .012    PPB       .000      .012
                                                                                =
================================================================================
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: 580-521994            Seq:  115    15:17:14 28 May 10   HG
                            FCW(#SEA29)64512
Hg    2.09    PPB       .000      2.09
                                                                                =
================================================================================
*** Sample ID: 580-521995            Seq:  116    15:21:38 28 May 10   HG
                            FCW(#SEA29)64512
Hg    2.11    PPB       .000      2.11
                                                                                =
================================================================================
*** Sample ID: 580-521996            Seq:  117    15:26:12 28 May 10   HG
                            FCW(#SEA29) 2X
Hg    5.20    PPB       .000      5.20
                                                                                =
================================================================================
*** Sample ID: 580-521975            Seq:  118    15:30:54 28 May 10   HG
                            FCW(#SEA29) 1X
Hg    2.76    PPB       .000      2.76
                                                                                =
================================================================================
*** Sample ID: 580-521976            Seq:  119    15:35:16 28 May 10   HG
                            FCW(#SEA29) 1X
Hg    2.24    PPB       .000      2.24
                                                                                =
================================================================================
*** Sample ID: 580-521977            Seq:  120    15:39:57 28 May 10   HG
                            FCW(#SEA29) 1X
Hg    3.32    PPB       .000      3.32
                                                                                =
================================================================================
*** Sample ID: 580-521978            Seq:  121    15:44:37 28 May 10   HG
                            FCW(#SEA29) 1X
Hg    4.89    PPB       .000      4.89
                                                                                =
================================================================================
*** Sample ID: 580-521979            Seq:  122    15:49:18 28 May 10   HG
                            FCW(#SEA29) 1X
Hg    2.74    PPB       .000      2.74
                                                                                =
*** Check Standard: 5  Ck5  5PPB    Seq:  123     15:54:00 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     5.13    5.00   PPB        .000
                                                                                =
*** Sample ID: BLANK                 Seq:  124    15:58:24 28 May 10   HG
                            FCW(#SEA29)
Hg   -.006    PPB       .000     -.006
                                                                                =
================================================================================
*** Sample ID: 580-521980            Seq:  125    16:02:43 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    1.55    PPB       .000      1.55
                                                                                =
================================================================================
*** Sample ID: 580-521981            Seq:  126    16:07:04 28 May 10   HG
                            FCW(#SEA29) 5000X
Hg    1.80    PPB       .000      1.80
                                                                                =
================================================================================
*** Sample ID: 580-521982            Seq:  127    16:11:25 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    1.96    PPB       .000      1.96
                                                                                =
================================================================================
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: 580-521983            Seq:  128    16:15:45 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    5.24    PPB       .000      5.24
                                                                                =
================================================================================
*** Sample ID: 580-521984            Seq:  129    16:20:15 28 May 10   HG
                            FCW(#SEA29) 50000X
Hg    1.84    PPB       .000      1.84
                                                                                =
================================================================================
*** Sample ID: 580-521985            Seq:  130    16:24:48 28 May 10   HG
                            FCW(#SEA29) 50000X
Hg    .475    PPB       .000      .475
                                                                                =
================================================================================
*** Sample ID: 580-521986            Seq:  131    16:29:09 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    1.58    PPB       .000      1.58
                                                                                =
================================================================================
*** Sample ID: 580-521987            Seq:  132    16:33:35 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    1.11    PPB       .000      1.11
                                                                                =
================================================================================
*** Sample ID: 580-521988            Seq:  133    16:37:55 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    4.19    PPB       .000      4.19
                                                                                =
================================================================================
*** Sample ID: 580-521989            Seq:  134    16:42:19 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    1.90    PPB       .000      1.90
                                                                                =
*** Check Standard: 5  Ck5  5PPB    Seq:  135     16:46:50 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          104.     5.19    5.00   PPB        .000
                                                                                =
*** Sample ID: BLANK                 Seq:  136    16:51:40 28 May 10   HG
                            FCW(#SEA29)
Hg    .005    PPB       .000      .005
                                                                                =
================================================================================
*** Sample ID: 580-521990            Seq:  137    16:56:10 28 May 10   HG
                            FCW(#SEA29) 10X
Hg    5.87    PPB       .000      5.87
                                                                                =
================================================================================
*** Sample ID: 580-521991            Seq:  138    17:00:32 28 May 10   HG
                            FCW(#SEA29) 500X
Hg    2.56    PPB       .000      2.56
                                                                                =
================================================================================
*** Sample ID: 580-521992            Seq:  139    17:04:56 28 May 10   HG
                            FCW(#SEA29) 100X
Hg    2.50    PPB       .000      2.50
                                                                                =
*** Check Standard: 5  Ck5  5PPB    Seq:  140     17:09:19 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     5.17    5.00   PPB        .000
                                                                                =
```

Protocol: Hg-SEA29
POST-RUN REPORT

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Check Standard: 1  Ck1  BLANK   Seq:  141     17:13:40 28 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.004     .200     PPB        .000
                                                                              =
*** Sample ID: 580-522298            Seq:  148    17:44:59 28 May 10   HG
                            FCW(#SEA29) 1X
Hg    1.07    PPB       .000      1.07
                                                                              =
*** Check Standard: 4  Ck4  5PPB    Seq:  152     18:02:45 28 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     5.11    5.00   PPB        .000
                                                                              =
*** Check Standard: 1  Ck1  BLANK   Seq:  153     18:07:13 28 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.014     .200     PPB        .000
                                                                              =
```

Step	Mass	Element	r	b(blank)	DL	BEC	Unit
3	6	Li	0.0000	--- ---	---	ug/l	
3	7	Li	0.0000	--- ---	---	ug/l	
3	9	Be	1.0000	6.580E-05	2.764E-03	1.064E-03	ug/l
2	23	Na	1.0000	16.67 2.657	93.68	ug/l	
2	24	Mg	0.9999	4.446E-02	2.023E-01	4.450E-01	ug/l
2	27	Al	1.0000	2.677E-02	2.105E-01	5.211E-01	ug/l
2	31	P	1.0000	9.432E-02	3.696	26.70	ug/l
2	39	K	1.0000	14.60 8.303	170.0	ug/l	
2	44	Ca	1.0000	1.748E-02	3.043	4.281	ug/l
1	45	Sc	0.0000	--- ---	---	ug/l	
2	45	Sc	0.0000	--- ---	---	ug/l	
2	47	Ti	1.0000	2.437E-04	1.412E-02	1.078E-02	ug/l
2	51	V	1.0000	1.967E-01	9.004E-02	3.712E-01	ug/l
2	52	Cr	1.0000	1.418E-01	5.091E-02	2.278E-01	ug/l
2	54	Fe	0.9999	6.901E-02	2.021E-01	3.406	ug/l
2	55	Mn	1.0000	1.107E-02	6.777E-03	2.430E-02	ug/l
2	59	Co	1.0000	1.830E-03	5.846E-03	2.229E-03	ug/l
2	60	Ni	0.9999	1.644E-02	7.053E-02	7.936E-02	ug/l
2	63	Cu	1.0000	1.888E-02	2.394E-02	3.513E-02	ug/l
2	66	Zn	1.0000	1.759E-02	1.999E-01	1.398E-01	ug/l
1	74	Ge	0.0000	--- ---	---	ug/l	
2	74	Ge	0.0000	--- ---	---	ug/l	
3	74	Ge	0.0000	--- ---	---	ug/l	
2	75	As	1.0000	9.074E-03	5.498E-02	1.660E-01	ug/l
2	78	Se	0.9999	3.953E-03	1.057	7.562E-01	ug/l
3	88	Sr	1.0000	4.386E-03	8.389E-03	9.916E-03	ug/l
3	95	Mo	1.0000	1.297E-03	2.350E-02	1.453E-02	ug/l
2	103	Rh	0.0000	--- ---	---	ug/l	
3	103	Rh	0.0000	--- ---	---	ug/l	
3	107	Ag	1.0000	1.519E-03	9.669E-03	5.224E-03	ug/l
3	111	Cd	1.0000	3.862E-04	8.935E-03	5.537E-03	ug/l
3	118	Sn	0.9998	2.935E-03	9.511E-03	1.598E-02	ug/l
3	121	Sb	0.9999	3.365E-03	5.020E-03	1.172E-02	ug/l
3	135	Ba	1.0000	9.767E-04	1.827E-02	1.851E-02	ug/l
3	165	Ho	0.0000	--- ---	---	ug/l	
3	175	Lu	0.0000	--- ---	---	ug/l	
3	200	Hg	0.9999	1.924E-04	6.194E-03	9.614E-03	ug/l
3	205	Tl	1.0000	6.629E-03	5.853E-03	3.749E-02	ug/l
3	208	Pb	1.0000	2.581E-03	5.917E-03	1.058E-02	ug/l
3	209	Bi	0.0000	--- ---	---	ug/l	
3	238	U	1.0000	5.254E-04	1.153E-03	1.744E-03	ug/l

TA Seattle/Tacoma Calibration Blank QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#
Date Acquired: May 27 2010 01:27 pm Acq. Method: 0NEW_ALL.M
Sample Name: STD0 Vial Number: 1306
Misc Info:
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : ---

Tune #	Name
1	c:\icpchem\1\7500\h2.u
2	c:\icpchem\1\7500\he.u
3	c:\icpchem\1\7500\nogas.u

Sample Type: CalBlk

QC&ISTD Elements

Element		Tune	CPS Mean		SD	RSD(%)
6	Li	3	5118511.0	A	93130.00	1.82
7	Li	3	782070.6	P	4332.00	0.55
9	Be	3	6.7	P	5.77	86.61
23	Na	2	91316.3	P	232.10	0.25
24	Mg	2	243.3	P	35.12	14.43
25	Mg	2		P		
26	Mg	2		P		
27	Al	2	146.7	P	20.21	13.78
31	P	2	516.7	P	25.17	4.87
39	K	2	79996.8	P	2228.00	2.79
40	Ca	1		P		
44	Ca	2	95.6	P	21.67	22.67
45	Sc	1	341365.8	P	3693.00	1.08
45	Sc	2	273883.5	P	3248.00	1.19
45	Sc	3		A		
47	Ti	2	1.3	P	0.58	43.31
50	V	2		P		
51	V	2	1076.8	P	75.72	7.03
52	Cr	2	776.7	P	56.87	7.32
53	Cr	2		P		
54	Fe	1		P		
54	Fe	2	583.4	P	15.27	2.62
55	Mn	2	60.7	P	5.77	9.52
56	Fe	1		P		
59	Co	2	10.0	P	8.72	87.18
60	Ni	2	90.0	P	26.46	29.40
61	Ni	2		P		
63	Cu	2	103.3	P	23.09	22.34
65	Cu	2		P		
66	Zn	2	96.7	P	47.26	48.89
67	Zn	2		P		
68	Zn	2		P		
74	Ge	1	283565.0	P	2306.00	0.81
74	Ge	2	422608.5	P	3160.00	0.75
74	Ge	3	1674050.0	A	11490.00	0.69
75	As	2	76.7	P	8.08	10.54
78	Se	1		P		
78	Se	2	33.3	P	15.28	45.84
88	Sr	2		P		
88	Sr	3	146.7	P	40.42	27.56
95	Mo	3	43.3	P	23.09	53.28
98	Mo	3		P		
99	(Mo)	3		P		
103	Rh	2	814900.3	P	8323.00	1.02
103	Rh	3	1534914.0	A	13520.00	0.88
106	(Cd)	3		P		
107	Ag	3	46.7	P	28.87	61.86
108	(Cd)	3		P		
109	Ag	3		P		
111	Cd	3	11.9	P	6.48	54.55
114	Cd	3		P		
118	Sn	2		P		
118	Sn	3	90.0	P	17.32	19.24
120	Sn	3		P		
121	Sb	3	103.3	P	15.28	14.79
123	Sb	3		P		
135	Ba	3	30.0	P	10.00	33.33
137	Ba	3		P		
165	Ho	3	3236273.0	A	25500.00	0.79
175	Lu	3	3583586.0	A	15250.00	0.43
200	Hg	3	29.3	P	6.43	21.92
201	Hg	3		P		
202	Hg	3		P		
203	Tl	3		P		
205	Tl	3	1010.1	P	51.97	5.15
206	Pb	3		P		
207	Pb	3		P		
208	Pb	3	393.4	P	73.72	18.74
209	Bi	3	7619304.0	A	40390.00	0.53
238	U	3	80.0	P	17.32	21.65

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052710C.B\007CALS.D\007CALS.D#
Date Acquired: May 27 2010 01:33 pm
Acq. Method: 0NEW_ALL.M
Sample Name: **STD1**
Vial Number: 1305
Misc Info: Hg(0.005PPB),Al(1PPB),Na(10PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

QC&ISTD Elements
Sample Type: CalStd

Element		IS	T#	CPS Mean	SD	RSD(%)
9	Be	6	3	601.7 P	88.37	14.69
23	Na	45	2	103793.5 P	334.40	0.32
24	Mg	45	2	5658.1 P	200.40	3.54
27	Al	45	2	661.7 P	37.53	5.67
31	P	45	2	590.0 P	96.44	16.35
39	K	45	2	84475.7 P	936.20	1.11
44	Ca	45	2	341.5 P	61.43	17.99
47	Ti	45	2	14.0 P	0.00	0.00
51	V	45	2	1456.8 P	87.37	6.00
52	Cr	45	2	850.1 P	150.00	17.65
54	Fe	74	2	2217.0 P	295.80	13.34
55	Mn	45	2	345.3 P	10.26	2.97
59	Co	45	2	453.3 P	46.88	10.34
60	Ni	45	2	230.0 P	43.59	18.95
63	Cu	45	2	466.7 P	119.30	25.56
66	Zn	45	2	213.3 P	46.19	21.65
75	As	74	2	104.0 P	7.21	6.93
78	Se	74	2	20.0 P	10.00	50.00
88	Sr	74	3	1653.5 P	107.90	6.53
95	Mo	74	3	343.4 P	68.07	19.83
107	Ag	103	3	890.1 P	51.97	5.84
111	Cd	103	3	202.3 P	23.05	11.40
118	Sn	103	3	696.7 P	57.74	8.29
121	Sb	103	3	833.4 P	50.34	6.04
135	Ba	103	3	146.7 P	25.17	17.16
200	Hg	209	3	67.3 P	2.31	3.43
205	Tl	209	3	3377.3 P	173.90	5.15
208	Pb	209	3	4103.8 P	338.40	8.25
238	U	209	3	4471.1 P	130.80	2.93

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	5062281	0.51	5119000	98.9	30 - 120	
45	Sc	1	352245	0.90	341400	103.2	30 - 120	
45	Sc	2	273290	0.41	273900	99.8	30 - 120	
74	Ge	1	294163	1.74	283600	103.7	30 - 120	
74	Ge	2	423611	1.14	422600	100.2	30 - 120	
74	Ge	3	1668140	1.41	1674000	99.6	30 - 120	
103	Rh	2	812206	1.25	814900	99.7	30 - 120	
103	Rh	3	1550945	1.31	1535000	101.0	30 - 120	
165	Ho	3	3175224	0.37	3236000	98.1	30 - 120	
175	Lu	3	3576534	0.99	3584000	99.8	30 - 120	
209	Bi	3	7622385	1.12	7619000	100.0	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**
0 :Element Failures **:Max. Number of Failures Allowed**
0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052710C.B\008CALS.D\008CALS.D#
Date Acquired: May 27 2010 01:39 pm
Acq. Method: 0NEW_ALL.M
Sample Name: **STD2**
Vial Number: 1304
Misc Info: Hg(0.05PPB),Al(10PPB),Na(100PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

QC&ISTD Elements
Sample Type: CalStd

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	6079.9	P	81.04	1.33
23	Na	45	2	194986.1	P	1527.00	0.78
24	Mg	45	2	56350.7	P	706.60	1.25
27	Al	45	2	3002.1	P	62.53	2.08
31	P	45	2	2206.9	P	161.70	7.33
39	K	45	2	126955.9	P	2223.00	1.75
44	Ca	45	2	2142.5	P	125.80	5.87
47	Ti	45	2	131.0	P	7.21	5.50
51	V	45	2	3877.4	P	292.90	7.55
52	Cr	45	2	4090.8	P	200.80	4.91
54	Fe	74	2	18384.0	P	1095.00	5.96
55	Mn	45	2	2576.9	P	104.70	4.06
59	Co	45	2	4501.5	P	116.70	2.59
60	Ni	45	2	1376.8	P	150.10	10.90
63	Cu	45	2	3140.5	P	45.84	1.46
66	Zn	45	2	893.4	P	113.70	12.73
75	As	74	2	498.0	P	24.98	5.02
78	Se	74	2	86.7	P	45.09	52.03
88	Sr	74	3	14746.0	P	399.90	2.71
95	Mo	74	3	2963.8	P	160.70	5.42
107	Ag	103	3	9143.7	P	120.10	1.31
111	Cd	103	3	1939.1	P	116.90	6.03
118	Sn	103	3	5661.5	P	321.00	5.67
121	Sb	103	3	8463.3	P	342.50	4.05
135	Ba	103	3	1686.9	P	80.85	4.79
200	Hg	209	3	216.7	P	12.86	5.94
205	Tl	209	3	26457.8	P	80.19	0.30
208	Pb	209	3	37882.2	P	474.30	1.25
238	U	209	3	44655.1	P	2080.00	4.66

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	5174031	0.99	5119000	101.1	30 - 120	
45	Sc	1	343529	0.85	341400	100.6	30 - 120	
45	Sc	2	272774	1.31	273900	99.6	30 - 120	
74	Ge	1	285827	2.86	283600	100.8	30 - 120	
74	Ge	2	423337	0.81	422600	100.2	30 - 120	
74	Ge	3	1645535	1.03	1674000	98.3	30 - 120	
103	Rh	2	811655	0.97	814900	99.6	30 - 120	
103	Rh	3	1527763	0.79	1535000	99.5	30 - 120	
165	Ho	3	3211206	1.81	3236000	99.2	30 - 120	
175	Lu	3	3608646	1.19	3584000	100.7	30 - 120	
209	Bi	3	7601009	0.19	7619000	99.8	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**
0 :Element Failures **:Max. Number of Failures Allowed**
0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052710C.B\009CALS.D\009CALS.D#
Date Acquired: May 27 2010 01:45 pm
Acq. Method: 0NEW_ALL.M
Sample Name: **STD3**
Vial Number: 1303
Misc Info: Hg(0.5PPB),Al(100PPB),Na(1,000PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

QC&ISTD Elements
Sample Type: CalStd

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	59736.9	P	1121.00	1.88
23	Na	45	2	1073665.0	A	10600.00	0.99
24	Mg	45	2	562759.6	P	5533.00	0.98
27	Al	45	2	27175.7	P	299.30	1.10
31	P	45	2	18907.9	P	515.00	2.72
39	K	45	2	553661.5	P	6737.00	1.22
44	Ca	45	2	21671.3	P	293.10	1.35
47	Ti	45	2	1193.4	P	39.17	3.28
51	V	45	2	29411.7	P	620.30	2.11
52	Cr	45	2	33836.3	P	50.09	0.15
54	Fe	74	2	171454.4	P	2026.00	1.18
55	Mn	45	2	24303.3	P	335.20	1.38
59	Co	45	2	44066.4	P	530.90	1.20
60	Ni	45	2	11298.8	P	147.50	1.31
63	Cu	45	2	29595.7	P	500.50	1.69
66	Zn	45	2	6548.6	P	231.70	3.54
75	As	74	2	4549.5	P	35.25	0.77
78	Se	74	2	430.0	P	91.66	21.32
88	Sr	74	3	144411.2	P	3518.00	2.44
95	Mo	74	3	29382.7	P	1237.00	4.21
107	Ag	103	3	87354.3	P	1176.00	1.35
111	Cd	103	3	20493.9	P	964.60	4.71
118	Sn	103	3	56432.4	P	6023.00	10.67
121	Sb	103	3	82956.3	P	2370.00	2.86
135	Ba	103	3	15463.8	P	683.40	4.42
200	Hg	209	3	1498.1	P	47.29	3.16
205	Tl	209	3	258011.7	P	8786.00	3.41
208	Pb	209	3	368955.5	P	11790.00	3.20
238	U	209	3	446908.4	P	14670.00	3.28

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	4999689	0.20	5119000	97.7	30 - 120	
45	Sc	1	341283	1.04	341400	100.0	30 - 120	
45	Sc	2	266342	1.19	273900	97.2	30 - 120	
74	Ge	1	281881	2.79	283600	99.4	30 - 120	
74	Ge	2	414901	0.94	422600	98.2	30 - 120	
74	Ge	3	1650836	1.10	1674000	98.6	30 - 120	
103	Rh	2	791359	0.84	814900	97.1	30 - 120	
103	Rh	3	1521050	1.11	1535000	99.1	30 - 120	
165	Ho	3	3197063	0.51	3236000	98.8	30 - 120	
175	Lu	3	3531061	0.52	3584000	98.5	30 - 120	
209	Bi	3	7476858	0.38	7619000	98.1	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**
0 :Element Failures **:Max. Number of Failures Allowed**
0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052710C.B\010CALS.D\010CALS.D#
Date Acquired: May 27 2010 01:51 pm
Acq. Method: 0NEW_ALL.M
Sample Name: **STD4**
Vial Number: 1302
Misc Info: Hg(2.5PPB),Al(500PPB),Na(5,000PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

Sample Type: CalStd

QC&ISTD Elements

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	297674.2	P	5834.00	1.96
23	Na	45	2	4799262.0	A	84470.00	1.76
24	Mg	45	2	2686047.0	A	28130.00	1.05
27	Al	45	2	135451.9	P	1925.00	1.42
31	P	45	2	93520.6	P	864.70	0.92
39	K	45	2	2349437.0	A	16670.00	0.71
44	Ca	45	2	107218.3	P	1959.00	1.83
47	Ti	45	2	5972.4	P	16.38	0.27
51	V	45	2	139384.0	P	2680.00	1.92
52	Cr	45	2	164834.0	P	2282.00	1.38
54	Fe	74	2	849811.6	P	5733.00	0.67
55	Mn	45	2	120879.9	P	575.00	0.48
59	Co	45	2	218924.0	P	1453.00	0.66
60	Ni	45	2	55674.4	P	1152.00	2.07
63	Cu	45	2	143239.2	P	3215.00	2.24
66	Zn	45	2	33154.6	P	803.80	2.42
75	As	74	2	22416.1	P	256.80	1.15
78	Se	74	2	2193.6	P	217.40	9.91
88	Sr	74	3	716564.8	P	5826.00	0.81
95	Mo	74	3	146479.0	P	2879.00	1.97
107	Ag	103	3	424768.8	P	2287.00	0.54
111	Cd	103	3	101768.3	P	3424.00	3.36
118	Sn	103	3	262905.3	P	5843.00	2.22
121	Sb	103	3	414434.8	P	4205.00	1.01
135	Ba	103	3	76686.9	P	1509.00	1.97
200	Hg	209	3	7258.3	P	46.16	0.64
205	Tl	209	3	1289895.0	P	29720.00	2.30
208	Pb	209	3	1806052.0	P	27080.00	1.50
238	U	209	3	2196869.0	A	44700.00	2.03

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	4875339	2.14	5119000	95.2	30 - 120	
45	Sc	1	338769	0.35	341400	99.2	30 - 120	
45	Sc	2	263186	0.36	273900	96.1	30 - 120	
74	Ge	1	280700	0.41	283600	99.0	30 - 120	
74	Ge	2	409290	0.41	422600	96.9	30 - 120	
74	Ge	3	1646917	2.38	1674000	98.4	30 - 120	
103	Rh	2	772293	0.55	814900	94.8	30 - 120	
103	Rh	3	1475415	0.95	1535000	96.1	30 - 120	
165	Ho	3	3203164	1.23	3236000	99.0	30 - 120	
175	Lu	3	3559400	1.60	3584000	99.3	30 - 120	
209	Bi	3	7357085	0.98	7619000	96.6	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052710C.B\011CALS.D\011CALS.D#
Date Acquired: May 27 2010 01:57 pm
Acq. Method: 0NEW_ALL.M
Sample Name: **STD5**
Vial Number: 1301
Misc Info: Hg(5PPB) Al(1,000PPB)Na(10,000PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

QC&ISTD Elements
Sample Type: CalStd

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	585496.1	P	4607.00	0.79
23	Na	45	2	9371905.0	A	176300.00	1.88
24	Mg	45	2	5191682.0	A	56670.00	1.09
27	Al	45	2	268582.7	P	411.00	0.15
31	P	45	2	185176.7	P	1659.00	0.90
39	K	45	2	4558714.0	A	19400.00	0.43
44	Ca	45	2	213614.0	P	3991.00	1.87
47	Ti	45	2	11810.8	P	114.70	0.97
51	V	45	2	278540.5	P	1154.00	0.41
52	Cr	45	2	326083.0	P	2495.00	0.77
54	Fe	74	2	1629538.0	A	24610.00	1.51
55	Mn	45	2	237879.6	P	406.20	0.17
59	Co	45	2	427780.0	P	2849.00	0.67
60	Ni	45	2	107778.7	P	722.50	0.67
63	Cu	45	2	279949.2	P	1063.00	0.38
66	Zn	45	2	65920.6	P	686.70	1.04
75	As	74	2	44327.4	P	366.60	0.83
78	Se	74	2	4254.2	P	115.90	2.72
88	Sr	74	3	1451590.0	A	4081.00	0.28
95	Mo	74	3	291880.0	P	1092.00	0.37
107	Ag	103	3	843155.5	P	8296.00	0.98
111	Cd	103	3	202255.3	P	2321.00	1.15
118	Sn	103	3	534998.1	P	5447.00	1.02
121	Sb	103	3	834778.6	P	11220.00	1.34
135	Ba	103	3	153260.6	P	2371.00	1.55
200	Hg	209	3	14583.2	P	268.90	1.84
205	Tl	209	3	2567865.0	A	36750.00	1.43
208	Pb	209	3	3528893.0	A	11320.00	0.32
238	U	209	3	4371733.0	A	22620.00	0.52

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	4716952	2.13	5119000	92.1	30 - 120	
45	Sc	1	345585	0.58	341400	101.2	30 - 120	
45	Sc	2	261347	0.54	273900	95.4	30 - 120	
74	Ge	1	286700	0.60	283600	101.1	30 - 120	
74	Ge	2	404576	0.89	422600	95.7	30 - 120	
74	Ge	3	1633875	0.71	1674000	97.6	30 - 120	
103	Rh	2	750913	0.23	814900	92.1	30 - 120	
103	Rh	3	1445575	1.12	1535000	94.2	30 - 120	
165	Ho	3	3184737	1.10	3236000	98.4	30 - 120	
175	Lu	3	3568166	1.15	3584000	99.6	30 - 120	
209	Bi	3	7242621	1.56	7619000	95.1	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**
0 :Element Failures **:Max. Number of Failures Allowed**
0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\014SMPL.D\014SMPL.D#
Date Acquired: May 27 2010 02:16 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICV Vial Number: 1105
Misc Info: Hg(2 PPB),Al(400 PPB),Na(4,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**40.240**	ug/l	40.24	2.1	450	6	P	
23	**Na**	2	**4026.000**	ug/l	4,026.00	1.5	450000	45	A	
24	**Mg**	2	**4096.000**	ug/l	4,096.00	0.5	450000	45	A	
27	**Al**	2	**397.500**	ug/l	397.50	1.6	450000	45	P	
31	**P**	2	**3990.000**	ug/l	3,990.00	0.5	450000	45	P	
39	**K**	2	**4063.000**	ug/l	4,063.00	0.4	450000	45	A	
44	**Ca**	2	**4056.000**	ug/l	4,056.00	0.7	450000	45	P	
47	**Ti**	2	**39.910**	ug/l	39.91	3.5	4500	45	P	
51	**V**	2	**39.480**	ug/l	39.48	1.5	4500	45	P	
52	**Cr**	2	**40.150**	ug/l	40.15	0.8	4500	45	P	
54	**Fe**	2	**4051.000**	ug/l	4,051.00	1.0	450000	74	P	
55	**Mn**	2	**40.170**	ug/l	40.17	1.2	15000	45	P	
59	**Co**	2	**40.390**	ug/l	40.39	0.4	4500	45	P	
60	**Ni**	2	**41.010**	ug/l	41.01	0.6	15000	45	P	
63	**Cu**	2	**40.460**	ug/l	40.46	1.5	15000	45	P	
66	**Zn**	2	**40.550**	ug/l	40.55	1.2	15000	45	P	
75	**As**	2	**39.330**	ug/l	39.33	2.1	4500	74	P	
78	**Se**	2	**39.880**	ug/l	39.88	7.7	4500	74	P	
88	**Sr**	3	**40.060**	ug/l	40.06	0.8	4500	74	P	
95	**Mo**	3	**40.330**	ug/l	40.33	1.4	4500	74	P	
107	**Ag**	3	**39.930**	ug/l	39.93	2.0	450	103	P	
111	**Cd**	3	**40.160**	ug/l	40.16	2.8	900	103	P	
118	**Sn**	3	**39.730**	ug/l	39.73	2.1	4500	103	P	
121	**Sb**	3	**39.790**	ug/l	39.79	1.3	4500	103	P	
135	**Ba**	3	**39.010**	ug/l	39.01	1.4	4500	103	P	
200	**Hg**	3	**2.002**	ug/l	2.00	4.9	45	209	P	
205	**Tl**	3	**40.540**	ug/l	40.54	1.2	4500	209	P	
208	**Pb**	3	**41.010**	ug/l	41.01	1.6	4500	209	P	
238	**U**	3	**40.340**	ug/l	40.34	1.5	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4777471	1.73	5119000	**93.3**	30	-	120	
45	Sc	1	340053	0.48	341400	**99.6**	30	-	120	
45	Sc	2	268331	0.68	273900	**98.0**	30	-	120	
74	Ge	1	283280	0.25	283600	**99.9**	30	-	120	
74	Ge	2	420898	1.49	422600	**99.6**	30	-	120	
74	Ge	3	1648153	0.69	1674000	**98.5**	30	-	120	
103	Rh	2	784031	1.20	814900	**96.2**	30	-	120	
103	Rh	3	1494422	1.43	1535000	**97.4**	30	-	120	
165	Ho	3	3195109	1.44	3236000	**98.7**	30	-	120	
175	Lu	3	3590444	0.76	3584000	**100.2**	30	-	120	
209	Bi	3	7378706	1.10	7619000	**96.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\015SMPL.D\015SMPL.D#
Date Acquired: May 27 2010 02:22 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.018**	ug/l	0.02	60.8	450	6	P	
23	**Na**	2	**7.682**	ug/l	7.68	24.4	450000	45	P	
24	**Mg**	2	**1.307**	ug/l	1.31	5.8	450000	45	P	
27	**Al**	2	**0.101**	ug/l	0.10	115.9	450000	45	P	
31	**P**	2	**-3.663**	ug/l	-3.66	115.2	450000	45	P	
39	**K**	2	**4.016**	ug/l	4.02	52.3	450000	45	P	
44	**Ca**	2	**2.388**	ug/l	2.39	145.4	450000	45	P	
47	**Ti**	2	**0.025**	ug/l	0.02	101.1	4500	45	P	
51	**V**	2	**-0.095**	ug/l	-0.09	39.6	4500	45	P	
52	**Cr**	2	**0.011**	ug/l	0.01	166.8	4500	45	P	
54	**Fe**	2	**1.833**	ug/l	1.83	14.3	450000	74	P	
55	**Mn**	2	**0.012**	ug/l	0.01	45.1	15000	45	P	
59	**Co**	2	**0.015**	ug/l	0.01	30.1	4500	45	P	
60	**Ni**	2	**0.029**	ug/l	0.03	32.3	15000	45	P	
63	**Cu**	2	**0.033**	ug/l	0.03	14.9	15000	45	P	
66	**Zn**	2	**-0.046**	ug/l	-0.05	122.9	15000	45	P	
75	**As**	2	**-0.031**	ug/l	-0.03	62.9	4500	74	P	
78	**Se**	2	**-0.231**	ug/l	-0.23	53.4	4500	74	P	
88	**Sr**	3	**0.016**	ug/l	0.02	79.4	4500	74	P	
95	**Mo**	3	**0.008**	ug/l	0.01	103.7	4500	74	P	
107	**Ag**	3	**0.007**	ug/l	0.01	69.0	450	103	P	
111	**Cd**	3	**0.005**	ug/l	0.00	68.7	900	103	P	
118	**Sn**	3	**0.041**	ug/l	0.04	28.7	4500	103	P	
121	**Sb**	3	**0.028**	ug/l	0.03	20.6	4500	103	P	
135	**Ba**	3	**0.006**	ug/l	0.01	100.0	4500	103	P	
200	**Hg**	3	**0.014**	ug/l	0.01	12.9	45	209	P	
205	**Tl**	3	**0.378**	ug/l	0.38	5.2	4500	209	P	
208	**Pb**	3	**0.009**	ug/l	0.01	72.2	4500	209	P	
238	**U**	3	**0.012**	ug/l	0.01	50.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4843146	0.99	5119000	**94.6**	30	-	120	
45	Sc	1	338511	0.33	341400	**99.2**	30	-	120	
45	Sc	2	268496	0.59	273900	**98.0**	30	-	120	
74	Ge	1	282135	0.30	283600	**99.5**	30	-	120	
74	Ge	2	423971	1.30	422600	**100.3**	30	-	120	
74	Ge	3	1632620	0.26	1674000	**97.5**	30	-	120	
103	Rh	2	805088	0.49	814900	**98.8**	30	-	120	
103	Rh	3	1525380	0.62	1535000	**99.4**	30	-	120	
165	Ho	3	3204788	1.45	3236000	**99.0**	30	-	120	
175	Lu	3	3591839	0.36	3584000	**100.2**	30	-	120	
209	Bi	3	7553531	0.23	7619000	**99.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed

0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\017SMPL.D\017SMPL.D#
Date Acquired: May 27 2010 02:35 pm Acq. Method: 0NEW_ALL.M
Sample Name: CRI (2 PPB) (RL) Vial Number: 1107
Misc Info: Hg(0.1 PPB),Al(20 PPB),Na(200 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.956**	ug/l	1.96	9.5	450	6	P	
23	**Na**	2	**216.000**	ug/l	216.00	1.7	450000	45	P	
24	**Mg**	2	**212.300**	ug/l	212.30	3.3	450000	45	P	
27	**Al**	2	**21.270**	ug/l	21.27	3.1	450000	45	P	
31	**P**	2	**198.800**	ug/l	198.80	5.0	450000	45	P	
39	**K**	2	**219.200**	ug/l	219.20	2.3	450000	45	P	
44	**Ca**	2	**198.500**	ug/l	198.50	5.7	450000	45	P	
47	**Ti**	2	**2.084**	ug/l	2.08	7.8	4500	45	P	
51	**V**	2	**1.912**	ug/l	1.91	2.4	4500	45	P	
52	**Cr**	2	**2.020**	ug/l	2.02	2.0	4500	45	P	
54	**Fe**	2	**202.500**	ug/l	202.50	3.2	450000	74	P	
55	**Mn**	2	**2.043**	ug/l	2.04	2.9	15000	45	P	
59	**Co**	2	**2.088**	ug/l	2.09	0.7	4500	45	P	
60	**Ni**	2	**2.259**	ug/l	2.26	6.8	15000	45	P	
63	**Cu**	2	**2.110**	ug/l	2.11	4.1	15000	45	P	
66	**Zn**	2	**2.036**	ug/l	2.04	17.3	15000	45	P	
75	**As**	2	**1.929**	ug/l	1.93	6.8	4500	74	P	
78	**Se**	2	**2.014**	ug/l	2.01	52.1	4500	74	P	
88	**Sr**	3	**2.038**	ug/l	2.04	2.1	4500	74	P	
95	**Mo**	3	**2.063**	ug/l	2.06	5.1	4500	74	P	
107	**Ag**	3	**2.059**	ug/l	2.06	2.2	450	103	P	
111	**Cd**	3	**2.036**	ug/l	2.04	3.4	900	103	P	
118	**Sn**	3	**1.940**	ug/l	1.94	4.5	4500	103	P	
121	**Sb**	3	**1.938**	ug/l	1.94	6.7	4500	103	P	
135	**Ba**	3	**1.846**	ug/l	1.85	3.2	4500	103	P	
200	**Hg**	3	**0.134**	ug/l	0.13	4.0	45	209	P	
205	**Tl**	3	**2.087**	ug/l	2.09	4.9	4500	209	P	
208	**Pb**	3	**2.039**	ug/l	2.04	1.9	4500	209	P	
238	**U**	3	**1.995**	ug/l	2.00	3.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4847158	1.00	5119000	**94.7**	30	-	120	
45	Sc	1	327879	0.63	341400	**96.0**	30	-	120	
45	Sc	2	270048	1.54	273900	**98.6**	30	-	120	
74	Ge	1	274940	1.21	283600	**96.9**	30	-	120	
74	Ge	2	425517	1.64	422600	**100.7**	30	-	120	
74	Ge	3	1638658	1.82	1674000	**97.9**	30	-	120	
103	Rh	2	809779	1.29	814900	**99.4**	30	-	120	
103	Rh	3	1543222	0.40	1535000	**100.5**	30	-	120	
165	Ho	3	3184232	0.67	3236000	**98.4**	30	-	120	
175	Lu	3	3551494	0.93	3584000	**99.1**	30	-	120	
209	Bi	3	7623753	0.86	7619000	**100.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\018SMPL.D\018SMPL.D#
Date Acquired: May 27 2010 02:41 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICSA Vial Number: 1101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.005**	ug/l	0.00	94.7	450	6	P	
23	**Na**	2	**245200.000**	ug/l	245,200.00	1.9	450000	45	A	
24	**Mg**	2	**96050.000**	ug/l	96,050.00	0.7	450000	45	A	
27	**Al**	2	**92580.000**	ug/l	92,580.00	1.7	450000	45	A	
31	**P**	2	**100600.000**	ug/l	100,600.00	1.5	450000	45	A	
39	**K**	2	**96080.000**	ug/l	96,080.00	1.0	450000	45	A	
44	**Ca**	2	**281700.000**	ug/l	281,700.00	0.3	450000	45	A	
47	**Ti**	2	**1978.000**	ug/l	1,978.00	0.6	4500	45	P	
51	**V**	2	**-0.037**	ug/l	-0.04	135.5	4500	45	P	
52	**Cr**	2	**1.079**	ug/l	1.08	9.4	4500	45	P	
54	**Fe**	2	**229100.000**	ug/l	229,100.00	1.5	450000	74	A	
55	**Mn**	2	**5.081**	ug/l	5.08	1.3	15000	45	P	
59	**Co**	2	**3.550**	ug/l	3.55	1.5	4500	45	P	
60	**Ni**	2	**2.519**	ug/l	2.52	7.9	15000	45	P	
63	**Cu**	2	**3.523**	ug/l	3.52	2.4	15000	45	P	
66	**Zn**	2	**3.269**	ug/l	3.27	8.4	15000	45	P	
75	**As**	2	**0.354**	ug/l	0.35	15.6	4500	74	P	
78	**Se**	2	**0.359**	ug/l	0.36	205.5	4500	74	P	
88	**Sr**	3	**17.480**	ug/l	17.48	2.4	4500	74	P	
95	**Mo**	3	**2090.000**	ug/l	2,090.00	1.0	4500	74	A	
107	**Ag**	3	**0.188**	ug/l	0.19	9.8	450	103	P	
111	**Cd**	3	**0.194**	ug/l	0.19	47.6	900	103	P	
118	**Sn**	3	**0.133**	ug/l	0.13	5.2	4500	103	P	
121	**Sb**	3	**0.705**	ug/l	0.71	2.0	4500	103	P	
135	**Ba**	3	**0.467**	ug/l	0.47	4.2	4500	103	P	
200	**Hg**	3	**0.019**	ug/l	0.02	28.3	45	209	P	
205	**Tl**	3	**0.111**	ug/l	0.11	8.8	4500	209	P	
208	**Pb**	3	**0.274**	ug/l	0.27	3.2	4500	209	P	
238	**U**	3	**0.003**	ug/l	0.00	68.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3611639	1.21	5119000	**70.6**	30	-	120	
45	Sc	1	305003	1.27	341400	**89.3**	30	-	120	
45	Sc	2	225786	1.04	273900	**82.4**	30	-	120	
74	Ge	1	243649	1.81	283600	**85.9**	30	-	120	
74	Ge	2	342709	1.63	422600	**81.1**	30	-	120	
74	Ge	3	1331549	1.49	1674000	**79.5**	30	-	120	
103	Rh	2	587650	1.67	814900	**72.1**	30	-	120	
103	Rh	3	1170783	0.95	1535000	**76.3**	30	-	120	
165	Ho	3	2771062	0.60	3236000	**85.6**	30	-	120	
175	Lu	3	3118927	0.46	3584000	**87.0**	30	-	120	
209	Bi	3	5897911	0.64	7619000	**77.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\019SMPL.D\019SMPL.D#
Date Acquired: May 27 2010 02:47 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICSAB Vial Number: 1102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.004**	ug/l	0.00	39.6	450	6	P	
23	**Na**	2	**252300.000**	ug/l	252,300.00	2.7	450000	45	A	
24	**Mg**	2	**98980.000**	ug/l	98,980.00	0.7	450000	45	A	
27	**Al**	2	**93950.000**	ug/l	93,950.00	1.0	450000	45	A	
31	**P**	2	**103100.000**	ug/l	103,100.00	1.0	450000	45	A	
39	**K**	2	**97510.000**	ug/l	97,510.00	1.0	450000	45	A	
44	**Ca**	2	**285400.000**	ug/l	285,400.00	2.2	450000	45	A	
47	**Ti**	2	**1980.000**	ug/l	1,980.00	0.7	4500	45	P	
51	**V**	2	**204.800**	ug/l	204.80	0.8	4500	45	P	
52	**Cr**	2	**199.000**	ug/l	199.00	1.1	4500	45	P	
54	**Fe**	2	**232600.000**	ug/l	232,600.00	1.9	450000	74	A	
55	**Mn**	2	**200.300**	ug/l	200.30	1.2	15000	45	P	
59	**Co**	2	**200.200**	ug/l	200.20	0.8	4500	45	P	
60	**Ni**	2	**196.300**	ug/l	196.30	1.2	15000	45	P	
63	**Cu**	2	**190.700**	ug/l	190.70	1.2	15000	45	P	
66	**Zn**	2	**99.360**	ug/l	99.36	1.9	15000	45	P	
75	**As**	2	**107.600**	ug/l	107.60	0.4	4500	74	P	
78	**Se**	2	**101.800**	ug/l	101.80	2.4	4500	74	P	
88	**Sr**	3	**17.220**	ug/l	17.22	0.7	4500	74	P	
95	**Mo**	3	**2080.000**	ug/l	2,080.00	1.8	4500	74	A	
107	**Ag**	3	**50.810**	ug/l	50.81	0.6	450	103	P	
111	**Cd**	3	**105.400**	ug/l	105.40	0.9	900	103	P	
118	**Sn**	3	**0.114**	ug/l	0.11	18.5	4500	103	P	
121	**Sb**	3	**0.775**	ug/l	0.78	3.3	4500	103	P	
135	**Ba**	3	**0.431**	ug/l	0.43	4.8	4500	103	P	
200	**Hg**	3	**0.017**	ug/l	0.02	27.7	45	209	P	
205	**Tl**	3	**0.078**	ug/l	0.08	9.0	4500	209	P	
208	**Pb**	3	**0.279**	ug/l	0.28	2.5	4500	209	P	
238	**U**	3	**0.000**	ug/l	0.00	136.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3614366	2.07	5119000	**70.6**	30	-	120	
45	Sc	1	290360	0.73	341400	**85.0**	30	-	120	
45	Sc	2	212811	1.33	273900	**77.7**	30	-	120	
74	Ge	1	231478	1.49	283600	**81.6**	30	-	120	
74	Ge	2	324757	1.58	422600	**76.8**	30	-	120	
74	Ge	3	1314066	0.95	1674000	**78.5**	30	-	120	
103	Rh	2	568103	0.93	814900	**69.7**	30	-	120	
103	Rh	3	1145083	0.24	1535000	**74.6**	30	-	120	
165	Ho	3	2756504	0.87	3236000	**85.2**	30	-	120	
175	Lu	3	3109269	1.99	3584000	**86.8**	30	-	120	
209	Bi	3	5852697	1.32	7619000	**76.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\023SMPL.D\023SMPL.D#
Date Acquired: May 27 2010 03:12 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**51.080**	ug/l	51.08	2.9	450	6	P	
23	**Na**	2	**5013.000**	ug/l	5,013.00	0.8	450000	45	A	
24	**Mg**	2	**5111.000**	ug/l	5,111.00	2.2	450000	45	A	
27	**Al**	2	**499.700**	ug/l	499.70	1.6	450000	45	P	
31	**P**	2	**4941.000**	ug/l	4,941.00	0.3	450000	45	P	
39	**K**	2	**5106.000**	ug/l	5,106.00	0.3	450000	45	A	
44	**Ca**	2	**4993.000**	ug/l	4,993.00	1.9	450000	45	P	
47	**Ti**	2	**50.110**	ug/l	50.11	2.1	4500	45	P	
51	**V**	2	**50.030**	ug/l	50.03	0.7	4500	45	P	
52	**Cr**	2	**50.410**	ug/l	50.41	0.9	4500	45	P	
54	**Fe**	2	**5021.000**	ug/l	5,021.00	0.7	450000	74	P	
55	**Mn**	2	**50.500**	ug/l	50.50	1.5	15000	45	P	
59	**Co**	2	**50.310**	ug/l	50.31	1.0	4500	45	P	
60	**Ni**	2	**51.360**	ug/l	51.36	2.3	15000	45	P	
63	**Cu**	2	**50.330**	ug/l	50.33	1.1	15000	45	P	
66	**Zn**	2	**50.490**	ug/l	50.49	2.4	15000	45	P	
75	**As**	2	**49.150**	ug/l	49.15	0.9	4500	74	P	
78	**Se**	2	**48.820**	ug/l	48.82	5.2	4500	74	P	
88	**Sr**	3	**51.350**	ug/l	51.35	1.3	4500	74	P	
95	**Mo**	3	**51.480**	ug/l	51.48	1.9	4500	74	P	
107	**Ag**	3	**50.170**	ug/l	50.17	1.9	450	103	P	
111	**Cd**	3	**50.400**	ug/l	50.40	4.9	900	103	P	
118	**Sn**	3	**50.190**	ug/l	50.19	4.3	4500	103	P	
121	**Sb**	3	**50.610**	ug/l	50.61	3.1	4500	103	P	
135	**Ba**	3	**50.660**	ug/l	50.66	1.9	4500	103	P	
200	**Hg**	3	**2.480**	ug/l	2.48	2.0	45	209	P	
205	**Tl**	3	**50.160**	ug/l	50.16	2.2	4500	209	P	
208	**Pb**	3	**51.170**	ug/l	51.17	1.6	4500	209	P	
238	**U**	3	**50.720**	ug/l	50.72	3.5	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4168630	0.36	5119000	**81.4**	30	-	120	
45	Sc	1	323138	1.47	341400	**94.7**	30	-	120	
45	Sc	2	247432	0.93	273900	**90.3**	30	-	120	
74	Ge	1	269525	1.71	283600	**95.0**	30	-	120	
74	Ge	2	392393	0.39	422600	**92.9**	30	-	120	
74	Ge	3	1517443	0.82	1674000	**90.6**	30	-	120	
103	Rh	2	735690	0.59	814900	**90.3**	30	-	120	
103	Rh	3	1404377	1.08	1535000	**91.5**	30	-	120	
165	Ho	3	3144437	0.57	3236000	**97.2**	30	-	120	
175	Lu	3	3513731	1.51	3584000	**98.0**	30	-	120	
209	Bi	3	7271915	0.19	7619000	**95.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\024SMPL.D\024SMPL.D#
Date Acquired: May 27 2010 03:18 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.019**	ug/l	0.02	75.4	450	6	P	
23	**Na**	2	**16.960**	ug/l	16.96	10.8	450000	45	P	
24	**Mg**	2	**2.085**	ug/l	2.09	5.6	450000	45	P	
27	**Al**	2	**0.092**	ug/l	0.09	219.0	450000	45	P	
31	**P**	2	**-2.667**	ug/l	-2.67	113.2	450000	45	P	
39	**K**	2	**11.510**	ug/l	11.51	20.2	450000	45	P	
44	**Ca**	2	**2.392**	ug/l	2.39	73.7	450000	45	P	
47	**Ti**	2	**0.197**	ug/l	0.20	148.0	4500	45	P	
51	**V**	2	**-0.068**	ug/l	-0.07	56.2	4500	45	P	
52	**Cr**	2	**-0.004**	ug/l	0.00	202.9	4500	45	P	
54	**Fe**	2	**2.445**	ug/l	2.45	34.0	450000	74	P	
55	**Mn**	2	**0.016**	ug/l	0.02	58.0	15000	45	P	
59	**Co**	2	**0.018**	ug/l	0.02	11.6	4500	45	P	
60	**Ni**	2	**0.021**	ug/l	0.02	51.8	15000	45	P	
63	**Cu**	2	**0.051**	ug/l	0.05	52.0	15000	45	P	
66	**Zn**	2	**-0.017**	ug/l	-0.02	372.6	15000	45	P	
75	**As**	2	**-0.019**	ug/l	-0.02	99.0	4500	74	P	
78	**Se**	2	**-0.114**	ug/l	-0.11	490.5	4500	74	P	
88	**Sr**	3	**0.009**	ug/l	0.01	57.0	4500	74	P	
95	**Mo**	3	**0.010**	ug/l	0.01	77.4	4500	74	P	
107	**Ag**	3	**0.004**	ug/l	0.00	71.7	450	103	P	
111	**Cd**	3	**0.014**	ug/l	0.01	148.6	900	103	P	
118	**Sn**	3	**0.026**	ug/l	0.03	7.4	4500	103	P	
121	**Sb**	3	**0.024**	ug/l	0.02	36.0	4500	103	P	
135	**Ba**	3	**0.013**	ug/l	0.01	30.4	4500	103	P	
200	**Hg**	3	**0.007**	ug/l	0.01	22.9	45	209	P	
205	**Tl**	3	**0.357**	ug/l	0.36	7.3	4500	209	P	
208	**Pb**	3	**0.008**	ug/l	0.01	78.1	4500	209	P	
238	**U**	3	**0.007**	ug/l	0.01	63.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4234243	2.23	5119000	**82.7**	30	-	120	
45	Sc	1	323218	0.84	341400	**94.7**	30	-	120	
45	Sc	2	249235	0.95	273900	**91.0**	30	-	120	
74	Ge	1	272851	0.73	283600	**96.2**	30	-	120	
74	Ge	2	394172	1.62	422600	**93.3**	30	-	120	
74	Ge	3	1507027	0.83	1674000	**90.0**	30	-	120	
103	Rh	2	764914	1.08	814900	**93.9**	30	-	120	
103	Rh	3	1420567	0.08	1535000	**92.5**	30	-	120	
165	Ho	3	3118006	0.89	3236000	**96.4**	30	-	120	
175	Lu	3	3466127	0.23	3584000	**96.7**	30	-	120	
209	Bi	3	7406851	0.59	7619000	**97.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\025SMPL.D\025SMPL.D#
Date Acquired: May 27 2010 03:24 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64447/21-A Vial Number: 2101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.006**	ug/l	0.06	78.3	450	6	P	
23	**Na**	2	**13.070**	ug/l	130.70	6.8	450000	45	P	
24	**Mg**	2	**0.408**	ug/l	4.08	51.8	450000	45	P	
27	**Al**	2	**-0.191**	ug/l	-1.91	26.8	450000	45	P	
31	**P**	2	**-3.925**	ug/l	-39.25	77.4	450000	45	P	
39	**K**	2	**13.410**	ug/l	134.10	9.9	450000	45	P	
44	**Ca**	2	**0.573**	ug/l	5.73	266.0	450000	45	P	
47	**Ti**	2	**0.013**	ug/l	0.13	79.4	4500	45	P	
51	**V**	2	**-0.073**	ug/l	-0.73	30.5	4500	45	P	
52	**Cr**	2	**0.007**	ug/l	0.07	493.9	4500	45	P	
54	**Fe**	2	**0.258**	ug/l	2.58	341.8	450000	74	P	
55	**Mn**	2	**-0.004**	ug/l	-0.04	33.2	15000	45	P	
59	**Co**	2	**0.004**	ug/l	0.04	27.4	4500	45	P	
60	**Ni**	2	**-0.002**	ug/l	-0.02	1162.8	15000	45	P	
63	**Cu**	2	**0.019**	ug/l	0.19	77.5	15000	45	P	
66	**Zn**	2	**-0.023**	ug/l	-0.23	177.7	15000	45	P	
75	**As**	2	**-0.035**	ug/l	-0.35	88.5	4500	74	P	
78	**Se**	2	**-0.595**	ug/l	-5.95	47.0	4500	74	P	
88	**Sr**	3	**0.001**	ug/l	0.01	603.8	4500	74	P	
95	**Mo**	3	**-0.003**	ug/l	-0.03	214.8	4500	74	P	
107	**Ag**	3	**0.001**	ug/l	0.01	421.1	450	103	P	
111	**Cd**	3	**0.006**	ug/l	0.06	188.8	900	103	P	
118	**Sn**	3	**0.004**	ug/l	0.04	220.2	4500	103	P	
121	**Sb**	3	**0.001**	ug/l	0.01	306.4	4500	103	P	
135	**Ba**	3	**-0.003**	ug/l	-0.03	126.3	4500	103	P	
200	**Hg**	3	**0.010**	ug/l	0.10	27.5	45	209	P	
205	**Tl**	3	**0.125**	ug/l	1.25	4.1	4500	209	P	
208	**Pb**	3	**0.000**	ug/l	0.00	297.9	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.01	137.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4302567	1.52	5119000	**84.1**	30	-	120	
45	Sc	1	322698	1.90	341400	**94.5**	30	-	120	
45	Sc	2	250481	0.99	273900	**91.4**	30	-	120	
74	Ge	1	272217	0.95	283600	**96.0**	30	-	120	
74	Ge	2	400340	1.72	422600	**94.7**	30	-	120	
74	Ge	3	1513756	0.36	1674000	**90.4**	30	-	120	
103	Rh	2	767706	1.11	814900	**94.2**	30	-	120	
103	Rh	3	1435486	1.99	1535000	**93.5**	30	-	120	
165	Ho	3	3088484	0.72	3236000	**95.4**	30	-	120	
175	Lu	3	3481929	0.45	3584000	**97.2**	30	-	120	
209	Bi	3	7381481	0.55	7619000	**96.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\026SMPL.D\026SMPL.D#
Date Acquired: May 27 2010 03:30 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-E SD Vial Number: 2102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.381**	ug/l	19.07	8.0	450	6	P	
23	**Na**	2	**32.990**	ug/l	1,649.50	9.4	450000	45	P	
24	**Mg**	2	**13190.000**	ug/l	659,500.00	1.1	450000	45	A	
27	**Al**	2	**12050.000**	ug/l	602,500.00	1.5	450000	45	A	
31	**P**	2	**230.200**	ug/l	11,510.00	4.4	450000	45	P	
39	**K**	2	**547.500**	ug/l	27,375.00	2.8	450000	45	P	
44	**Ca**	2	**5885.000**	ug/l	294,250.00	1.2	450000	45	P	
47	**Ti**	2	**86.270**	ug/l	4,313.50	1.6	4500	45	P	
51	**V**	2	**35.270**	ug/l	1,763.50	1.8	4500	45	P	
52	**Cr**	2	**103.600**	ug/l	5,180.00	0.6	4500	45	P	
54	**Fe**	2	**19620.000**	ug/l	981,000.00	3.2	450000	74	A	
55	**Mn**	2	**349.400**	ug/l	17,470.00	0.9	15000	45	P	
59	**Co**	2	**12.590**	ug/l	629.50	0.5	4500	45	P	
60	**Ni**	2	**128.500**	ug/l	6,425.00	1.6	15000	45	P	
63	**Cu**	2	**22.400**	ug/l	1,120.00	1.2	15000	45	P	
66	**Zn**	2	**36.500**	ug/l	1,825.00	2.6	15000	45	P	
75	**As**	2	**4.689**	ug/l	234.45	5.8	4500	74	P	
78	**Se**	2	**0.116**	ug/l	5.79	306.5	4500	74	P	
88	**Sr**	3	**26.150**	ug/l	1,307.50	2.6	4500	74	P	
95	**Mo**	3	**0.551**	ug/l	27.56	4.8	4500	74	P	
107	**Ag**	3	**0.058**	ug/l	2.91	17.9	450	103	P	
111	**Cd**	3	**0.099**	ug/l	4.94	6.2	900	103	P	
118	**Sn**	3	**0.288**	ug/l	14.39	5.1	4500	103	P	
121	**Sb**	3	**0.345**	ug/l	17.26	6.1	4500	103	P	
135	**Ba**	3	**150.000**	ug/l	7,500.00	1.1	4500	103	P	
200	**Hg**	3	**0.061**	ug/l	3.06	4.8	45	209	P	
205	**Tl**	3	**0.137**	ug/l	6.85	6.4	4500	209	P	
208	**Pb**	3	**5.571**	ug/l	278.55	0.8	4500	209	P	
238	**U**	3	**0.144**	ug/l	7.19	7.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4830930	0.32	5119000	**94.4**	30	-	120	
45	Sc	1	337100	0.40	341400	**98.7**	30	-	120	
45	Sc	2	269776	0.47	273900	**98.5**	30	-	120	
74	Ge	1	273911	0.92	283600	**96.6**	30	-	120	
74	Ge	2	401110	1.49	422600	**94.9**	30	-	120	
74	Ge	3	1617163	1.90	1674000	**96.6**	30	-	120	
103	Rh	2	751741	1.76	814900	**92.2**	30	-	120	
103	Rh	3	1472745	1.04	1535000	**95.9**	30	-	120	
165	Ho	3	3153832	0.66	3236000	**97.5**	30	-	120	
175	Lu	3	3544017	1.70	3584000	**98.9**	30	-	120	
209	Bi	3	7218371	0.23	7619000	**94.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\027SMPL.D\027SMPL.D#
Date Acquired: May 27 2010 03:36 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-E Vial Number: 2103
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.758**	ug/l	17.58	1.9	450	6	P	
23	**Na**	2	**118.900**	ug/l	1,189.00	0.3	450000	45	P	
24	**Mg**	2	**54270.000**	ug/l	542,700.00	0.7	450000	45	A	
27	**Al**	2	**49540.000**	ug/l	495,400.00	1.9	450000	45	A	
31	**P**	2	**973.600**	ug/l	9,736.00	0.2	450000	45	P	
39	**K**	2	**2130.000**	ug/l	21,300.00	1.6	450000	45	A	
44	**Ca**	2	**24750.000**	ug/l	247,500.00	0.9	450000	45	P	
47	**Ti**	2	**362.500**	ug/l	3,625.00	0.9	4500	45	P	
51	**V**	2	**150.300**	ug/l	1,503.00	0.8	4500	45	P	
52	**Cr**	2	**434.000**	ug/l	4,340.00	0.4	4500	45	A	
54	**Fe**	2	**85210.000**	ug/l	852,100.00	0.8	450000	74	A	
55	**Mn**	2	**1412.000**	ug/l	14,120.00	0.7	15000	45	A	
59	**Co**	2	**51.970**	ug/l	519.70	0.6	4500	45	P	
60	**Ni**	2	**526.200**	ug/l	5,262.00	0.8	15000	45	P	
63	**Cu**	2	**91.940**	ug/l	919.40	0.6	15000	45	P	
66	**Zn**	2	**148.000**	ug/l	1,480.00	1.2	15000	45	P	
75	**As**	2	**21.880**	ug/l	218.80	0.4	4500	74	P	
78	**Se**	2	**1.640**	ug/l	16.40	106.6	4500	74	P	
88	**Sr**	3	**117.900**	ug/l	1,179.00	0.5	4500	74	A	
95	**Mo**	3	**2.644**	ug/l	26.44	4.7	4500	74	P	
107	**Ag**	3	**0.290**	ug/l	2.90	5.8	450	103	P	
111	**Cd**	3	**0.367**	ug/l	3.67	2.1	900	103	P	
118	**Sn**	3	**1.412**	ug/l	14.12	5.0	4500	103	P	
121	**Sb**	3	**1.533**	ug/l	15.33	1.9	4500	103	P	
135	**Ba**	3	**692.500**	ug/l	6,925.00	2.2	4500	103	P	
200	**Hg**	3	**0.247**	ug/l	2.47	3.8	45	209	P	
205	**Tl**	3	**0.299**	ug/l	2.99	4.2	4500	209	P	
208	**Pb**	3	**25.120**	ug/l	251.20	1.4	4500	209	P	
238	**U**	3	**0.674**	ug/l	6.74	1.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4024254	0.07	5119000	**78.6**	30	-	120	
45	Sc	1	336928	1.51	341400	**98.7**	30	-	120	
45	Sc	2	276919	0.45	273900	**101.1**	30	-	120	
74	Ge	1	249385	1.39	283600	**87.9**	30	-	120	
74	Ge	2	384300	0.87	422600	**90.9**	30	-	120	
74	Ge	3	1505700	1.33	1674000	**89.9**	30	-	120	
103	Rh	2	711391	0.85	814900	**87.3**	30	-	120	
103	Rh	3	1355482	1.29	1535000	**88.3**	30	-	120	
165	Ho	3	3130435	0.29	3236000	**96.7**	30	-	120	
175	Lu	3	3466114	1.35	3584000	**96.7**	30	-	120	
209	Bi	3	6875665	0.62	7619000	**90.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\028SMPL.D\028SMPL.D#
Date Acquired: May 27 2010 03:42 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-F DU Vial Number: 2104
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.737**	ug/l	17.37	3.5	450	6	P	
23	**Na**	2	**122.000**	ug/l	1,220.00	2.3	450000	45	P	
24	**Mg**	2	**54320.000**	ug/l	543,200.00	1.0	450000	45	A	
27	**Al**	2	**49290.000**	ug/l	492,900.00	0.7	450000	45	A	
31	**P**	2	**957.400**	ug/l	9,574.00	2.2	450000	45	P	
39	**K**	2	**2226.000**	ug/l	22,260.00	1.9	450000	45	A	
44	**Ca**	2	**24420.000**	ug/l	244,200.00	0.3	450000	45	P	
47	**Ti**	2	**359.400**	ug/l	3,594.00	0.6	4500	45	P	
51	**V**	2	**148.600**	ug/l	1,486.00	1.1	4500	45	P	
52	**Cr**	2	**419.900**	ug/l	4,199.00	1.2	4500	45	A	
54	**Fe**	2	**84270.000**	ug/l	842,700.00	1.0	450000	74	A	
55	**Mn**	2	**1377.000**	ug/l	13,770.00	0.8	15000	45	A	
59	**Co**	2	**51.670**	ug/l	516.70	0.1	4500	45	P	
60	**Ni**	2	**523.700**	ug/l	5,237.00	0.4	15000	45	P	
63	**Cu**	2	**91.340**	ug/l	913.40	1.8	15000	45	P	
66	**Zn**	2	**147.100**	ug/l	1,471.00	1.3	15000	45	P	
75	**As**	2	**21.780**	ug/l	217.80	1.4	4500	74	P	
78	**Se**	2	**0.934**	ug/l	9.34	54.4	4500	74	P	
88	**Sr**	3	**115.600**	ug/l	1,156.00	2.5	4500	74	A	
95	**Mo**	3	**2.620**	ug/l	26.20	4.0	4500	74	P	
107	**Ag**	3	**0.273**	ug/l	2.73	1.7	450	103	P	
111	**Cd**	3	**0.424**	ug/l	4.24	12.7	900	103	P	
118	**Sn**	3	**1.390**	ug/l	13.90	8.5	4500	103	P	
121	**Sb**	3	**1.589**	ug/l	15.89	2.3	4500	103	P	
135	**Ba**	3	**694.100**	ug/l	6,941.00	2.3	4500	103	P	
200	**Hg**	3	**0.239**	ug/l	2.39	3.3	45	209	P	
205	**Tl**	3	**0.290**	ug/l	2.90	1.6	4500	209	P	
208	**Pb**	3	**25.090**	ug/l	250.90	0.4	4500	209	P	
238	**U**	3	**0.671**	ug/l	6.71	0.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3934460	0.81	5119000	**76.9**	30	-	120	
45	Sc	1	301888	1.46	341400	**88.4**	30	-	120	
45	Sc	2	271359	0.62	273900	**99.1**	30	-	120	
74	Ge	1	224847	0.84	283600	**79.3**	30	-	120	
74	Ge	2	376453	1.08	422600	**89.1**	30	-	120	
74	Ge	3	1485643	1.36	1674000	**88.7**	30	-	120	
103	Rh	2	700040	0.93	814900	**85.9**	30	-	120	
103	Rh	3	1328657	1.55	1535000	**86.6**	30	-	120	
165	Ho	3	3116708	0.57	3236000	**96.3**	30	-	120	
175	Lu	3	3469416	0.45	3584000	**96.8**	30	-	120	
209	Bi	3	6806118	0.64	7619000	**89.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\029SMPL.D\029SMPL.D#
Date Acquired: May 27 2010 03:48 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-G MS Vial Number: 2105
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.176**	ug/l	108.80	2.9	450	6	P	
23	**Na**	2	**406.000**	ug/l	20,300.00	0.4	450000	45	P	
24	**Mg**	2	**10770.000**	ug/l	538,500.00	1.2	450000	45	A	
27	**Al**	2	**9756.000**	ug/l	487,800.00	1.4	450000	45	A	
31	**P**	2	**550.800**	ug/l	27,540.00	2.7	450000	45	P	
39	**K**	2	**806.900**	ug/l	40,345.00	1.3	450000	45	P	
44	**Ca**	2	**5007.000**	ug/l	250,350.00	0.9	450000	45	P	
47	**Ti**	2	**156.000**	ug/l	7,800.00	1.3	4500	45	P	
51	**V**	2	**46.370**	ug/l	2,318.50	0.6	4500	45	P	
52	**Cr**	2	**90.090**	ug/l	4,504.50	0.5	4500	45	P	
54	**Fe**	2	**16010.000**	ug/l	800,500.00	2.4	450000	74	A	
55	**Mn**	2	**295.700**	ug/l	14,785.00	0.4	15000	45	P	
59	**Co**	2	**28.270**	ug/l	1,413.50	0.4	4500	45	P	
60	**Ni**	2	**120.200**	ug/l	6,010.00	1.3	15000	45	P	
63	**Cu**	2	**26.950**	ug/l	1,347.50	1.4	15000	45	P	
66	**Zn**	2	**47.450**	ug/l	2,372.50	2.1	15000	45	P	
75	**As**	2	**76.660**	ug/l	3,833.00	1.5	4500	74	P	
78	**Se**	2	**78.590**	ug/l	3,929.50	2.3	4500	74	P	
88	**Sr**	3	**19.940**	ug/l	997.00	1.4	4500	74	P	
95	**Mo**	3	**93.320**	ug/l	4,666.00	0.9	4500	74	P	
107	**Ag**	3	**11.320**	ug/l	566.00	1.3	450	103	P	
111	**Cd**	3	**1.924**	ug/l	96.20	4.1	900	103	P	
118	**Sn**	3	**92.850**	ug/l	4,642.50	1.1	4500	103	P	
121	**Sb**	3	**55.160**	ug/l	2,758.00	0.6	4500	103	P	
135	**Ba**	3	**190.500**	ug/l	9,525.00	2.0	4500	103	P	
200	**Hg**	3	**0.952**	ug/l	47.58	2.5	45	209	P	
205	**Tl**	3	**75.110**	ug/l	3,755.50	1.0	4500	209	A	
208	**Pb**	3	**23.690**	ug/l	1,184.50	0.7	4500	209	P	
238	**U**	3	**0.111**	ug/l	5.57	6.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4904306	0.39	5119000	**95.8**	30	-	120	
45	Sc	1	287280	0.19	341400	**84.1**	30	-	120	
45	Sc	2	276555	0.75	273900	**101.0**	30	-	120	
74	Ge	1	231158	0.57	283600	**81.5**	30	-	120	
74	Ge	2	414241	1.12	422600	**98.0**	30	-	120	
74	Ge	3	1659507	1.17	1674000	**99.1**	30	-	120	
103	Rh	2	780620	0.75	814900	**95.8**	30	-	120	
103	Rh	3	1500686	0.83	1535000	**97.8**	30	-	120	
165	Ho	3	3194632	0.26	3236000	**98.7**	30	-	120	
175	Lu	3	3575095	0.27	3584000	**99.8**	30	-	120	
209	Bi	3	7343423	0.72	7619000	**96.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\030SMPL.D\030SMPL.D#
Date Acquired: May 27 2010 03:54 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-H MSD Vial Number: 2106
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.221**	ug/l	111.05	1.9	450	6	P	
23	**Na**	2	**426.300**	ug/l	21,315.00	1.4	450000	45	P	
24	**Mg**	2	**11360.000**	ug/l	568,000.00	0.7	450000	45	A	
27	**Al**	2	**10240.000**	ug/l	512,000.00	0.9	450000	45	A	
31	**P**	2	**574.800**	ug/l	28,740.00	2.4	450000	45	P	
39	**K**	2	**847.400**	ug/l	42,370.00	1.2	450000	45	P	
44	**Ca**	2	**5310.000**	ug/l	265,500.00	0.3	450000	45	P	
47	**Ti**	2	**166.900**	ug/l	8,345.00	1.7	4500	45	P	
51	**V**	2	**48.610**	ug/l	2,430.50	0.7	4500	45	P	
52	**Cr**	2	**94.020**	ug/l	4,701.00	0.1	4500	45	P	
54	**Fe**	2	**16560.000**	ug/l	828,000.00	0.8	450000	74	A	
55	**Mn**	2	**310.800**	ug/l	15,540.00	0.8	15000	45	P	
59	**Co**	2	**29.880**	ug/l	1,494.00	0.4	4500	45	P	
60	**Ni**	2	**128.600**	ug/l	6,430.00	0.6	15000	45	P	
63	**Cu**	2	**28.740**	ug/l	1,437.00	1.0	15000	45	P	
66	**Zn**	2	**49.660**	ug/l	2,483.00	2.5	15000	45	P	
75	**As**	2	**78.750**	ug/l	3,937.50	0.6	4500	74	P	
78	**Se**	2	**80.750**	ug/l	4,037.50	8.5	4500	74	P	
88	**Sr**	3	**20.660**	ug/l	1,033.00	2.3	4500	74	P	
95	**Mo**	3	**96.600**	ug/l	4,830.00	2.9	4500	74	P	
107	**Ag**	3	**11.770**	ug/l	588.50	1.7	450	103	P	
111	**Cd**	3	**1.997**	ug/l	99.85	11.6	900	103	P	
118	**Sn**	3	**96.150**	ug/l	4,807.50	2.4	4500	103	P	
121	**Sb**	3	**56.900**	ug/l	2,845.00	1.4	4500	103	P	
135	**Ba**	3	**195.700**	ug/l	9,785.00	1.2	4500	103	P	
200	**Hg**	3	**1.025**	ug/l	51.25	3.6	45	209	P	
205	**Tl**	3	**77.580**	ug/l	3,879.00	1.4	4500	209	A	
208	**Pb**	3	**24.520**	ug/l	1,226.00	1.4	4500	209	P	
238	**U**	3	**0.113**	ug/l	5.64	0.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5126116	1.16	5119000	**100.1**	30	-	120	
45	Sc	1	284043	1.55	341400	**83.2**	30	-	120	
45	Sc	2	275410	0.89	273900	**100.6**	30	-	120	
74	Ge	1	231648	1.71	283600	**81.7**	30	-	120	
74	Ge	2	420074	1.17	422600	**99.4**	30	-	120	
74	Ge	3	1674039	0.21	1674000	**100.0**	30	-	120	
103	Rh	2	777870	1.36	814900	**95.5**	30	-	120	
103	Rh	3	1515304	0.73	1535000	**98.7**	30	-	120	
165	Ho	3	3243115	1.13	3236000	**100.2**	30	-	120	
175	Lu	3	3592616	0.67	3584000	**100.2**	30	-	120	
209	Bi	3	7343785	0.11	7619000	**96.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\031SMPL.D\031SMPL.D#
Date Acquired: May 27 2010 04:00 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-E PDS Vial Number: 2107
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.235**	ug/l	111.75	1.1	450	6	P	
23	**Na**	2	**425.300**	ug/l	21,265.00	1.2	450000	45	P	
24	**Mg**	2	**11290.000**	ug/l	564,500.00	0.9	450000	45	A	
27	**Al**	2	**10260.000**	ug/l	513,000.00	1.5	450000	45	A	
31	**P**	2	**567.300**	ug/l	28,365.00	3.8	450000	45	P	
39	**K**	2	**849.400**	ug/l	42,470.00	1.7	450000	45	P	
44	**Ca**	2	**5310.000**	ug/l	265,500.00	1.4	450000	45	P	
47	**Ti**	2	**165.400**	ug/l	8,270.00	1.0	4500	45	P	
51	**V**	2	**49.480**	ug/l	2,474.00	0.3	4500	45	P	
52	**Cr**	2	**94.000**	ug/l	4,700.00	0.7	4500	45	P	
54	**Fe**	2	**16650.000**	ug/l	832,500.00	1.4	450000	74	A	
55	**Mn**	2	**313.000**	ug/l	15,650.00	0.7	15000	45	P	
59	**Co**	2	**29.900**	ug/l	1,495.00	0.7	4500	45	P	
60	**Ni**	2	**128.900**	ug/l	6,445.00	1.3	15000	45	P	
63	**Cu**	2	**28.670**	ug/l	1,433.50	1.4	15000	45	P	
66	**Zn**	2	**48.310**	ug/l	2,415.50	2.2	15000	45	P	
75	**As**	2	**81.640**	ug/l	4,082.00	0.6	4500	74	P	
78	**Se**	2	**78.250**	ug/l	3,912.50	5.0	4500	74	P	
88	**Sr**	3	**20.450**	ug/l	1,022.50	3.4	4500	74	P	
95	**Mo**	3	**97.150**	ug/l	4,857.50	2.8	4500	74	P	
107	**Ag**	3	**11.760**	ug/l	588.00	2.0	450	103	P	
111	**Cd**	3	**1.986**	ug/l	99.30	3.7	900	103	P	
118	**Sn**	3	**96.320**	ug/l	4,816.00	2.3	4500	103	P	
121	**Sb**	3	**57.450**	ug/l	2,872.50	1.5	4500	103	P	
135	**Ba**	3	**197.000**	ug/l	9,850.00	2.2	4500	103	P	
200	**Hg**	3	**1.024**	ug/l	51.20	1.7	45	209	P	
205	**Tl**	3	**77.600**	ug/l	3,880.00	2.7	4500	209	A	
208	**Pb**	3	**24.560**	ug/l	1,228.00	2.2	4500	209	P	
238	**U**	3	**0.110**	ug/l	5.48	3.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5198248	0.93	5119000	**101.5**	30	-	120	
45	Sc	1	281376	0.71	341400	**82.4**	30	-	120	
45	Sc	2	279278	0.57	273900	**102.0**	30	-	120	
74	Ge	1	232584	0.76	283600	**82.0**	30	-	120	
74	Ge	2	425146	1.36	422600	**100.6**	30	-	120	
74	Ge	3	1709033	0.99	1674000	**102.1**	30	-	120	
103	Rh	2	788351	0.35	814900	**96.7**	30	-	120	
103	Rh	3	1532162	0.69	1535000	**99.8**	30	-	120	
165	Ho	3	3267069	0.55	3236000	**101.0**	30	-	120	
175	Lu	3	3614360	1.13	3584000	**100.8**	30	-	120	
209	Bi	3	7442153	1.10	7619000	**97.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\032SMPL.D\032SMPL.D#
Date Acquired: May 27 2010 04:07 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64447/22-A Vial Number: 2108
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.033**	ug/l	101.65	1.9	450	6	P	
23	**Na**	2	**416.800**	ug/l	20,840.00	0.9	450000	45	P	
24	**Mg**	2	**420.500**	ug/l	21,025.00	1.0	450000	45	P	
27	**Al**	2	**83.190**	ug/l	4,159.50	1.4	450000	45	P	
31	**P**	2	**386.000**	ug/l	19,300.00	1.6	450000	45	P	
39	**K**	2	**421.300**	ug/l	21,065.00	1.1	450000	45	P	
44	**Ca**	2	**389.300**	ug/l	19,465.00	5.2	450000	45	P	
47	**Ti**	2	**98.160**	ug/l	4,908.00	1.3	4500	45	P	
51	**V**	2	**19.740**	ug/l	987.00	2.4	4500	45	P	
52	**Cr**	2	**7.960**	ug/l	398.00	3.2	4500	45	P	
54	**Fe**	2	**453.700**	ug/l	22,685.00	1.5	450000	74	P	
55	**Mn**	2	**20.200**	ug/l	1,010.00	1.8	15000	45	P	
59	**Co**	2	**20.310**	ug/l	1,015.50	0.3	4500	45	P	
60	**Ni**	2	**20.610**	ug/l	1,030.50	4.1	15000	45	P	
63	**Cu**	2	**10.400**	ug/l	520.00	0.7	15000	45	P	
66	**Zn**	2	**20.270**	ug/l	1,013.50	2.0	15000	45	P	
75	**As**	2	**78.870**	ug/l	3,943.50	1.1	4500	74	P	
78	**Se**	2	**78.000**	ug/l	3,900.00	5.3	4500	74	P	
88	**Sr**	3	**0.005**	ug/l	0.27	36.7	4500	74	P	
95	**Mo**	3	**101.800**	ug/l	5,090.00	1.1	4500	74	P	
107	**Ag**	3	**11.880**	ug/l	594.00	0.9	450	103	P	
111	**Cd**	3	**1.898**	ug/l	94.90	4.0	900	103	P	
118	**Sn**	3	**99.940**	ug/l	4,997.00	0.6	4500	103	P	
121	**Sb**	3	**56.670**	ug/l	2,833.50	1.1	4500	103	P	
135	**Ba**	3	**78.360**	ug/l	3,918.00	1.0	4500	103	P	
200	**Hg**	3	**0.971**	ug/l	48.54	1.3	45	209	P	
205	**Tl**	3	**78.190**	ug/l	3,909.50	1.0	4500	209	A	
208	**Pb**	3	**20.260**	ug/l	1,013.00	0.3	4500	209	P	
238	**U**	3	**-0.002**	ug/l	-0.08	7.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4562239	0.38	5119000	**89.1**	30	-	120	
45	Sc	1	266341	0.99	341400	**78.0**	30	-	120	
45	Sc	2	266800	0.84	273900	**97.4**	30	-	120	
74	Ge	1	222565	1.66	283600	**78.5**	30	-	120	
74	Ge	2	422290	0.05	422600	**99.9**	30	-	120	
74	Ge	3	1632382	0.86	1674000	**97.5**	30	-	120	
103	Rh	2	802949	1.09	814900	**98.5**	30	-	120	
103	Rh	3	1527966	1.53	1535000	**99.5**	30	-	120	
165	Ho	3	3291560	0.89	3236000	**101.7**	30	-	120	
175	Lu	3	3640705	0.58	3584000	**101.6**	30	-	120	
209	Bi	3	7620562	1.14	7619000	**100.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\033SMPL.D\033SMPL.D#
Date Acquired: May 27 2010 04:13 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64447/23-A Vial Number: 2109
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.983**	ug/l	99.15	5.8	450	6	P	
23	**Na**	2	**417.000**	ug/l	20,850.00	0.9	450000	45	P	
24	**Mg**	2	**417.500**	ug/l	20,875.00	0.4	450000	45	P	
27	**Al**	2	**78.390**	ug/l	3,919.50	1.4	450000	45	P	
31	**P**	2	**366.700**	ug/l	18,335.00	5.1	450000	45	P	
39	**K**	2	**417.500**	ug/l	20,875.00	2.0	450000	45	P	
44	**Ca**	2	**379.500**	ug/l	18,975.00	3.2	450000	45	P	
47	**Ti**	2	**97.010**	ug/l	4,850.50	1.6	4500	45	P	
51	**V**	2	**19.880**	ug/l	994.00	0.8	4500	45	P	
52	**Cr**	2	**8.023**	ug/l	401.15	1.3	4500	45	P	
54	**Fe**	2	**447.600**	ug/l	22,380.00	0.7	450000	74	P	
55	**Mn**	2	**20.240**	ug/l	1,012.00	1.4	15000	45	P	
59	**Co**	2	**20.500**	ug/l	1,025.00	1.4	4500	45	P	
60	**Ni**	2	**21.460**	ug/l	1,073.00	0.6	15000	45	P	
63	**Cu**	2	**10.650**	ug/l	532.50	1.4	15000	45	P	
66	**Zn**	2	**19.920**	ug/l	996.00	5.1	15000	45	P	
75	**As**	2	**79.280**	ug/l	3,964.00	0.9	4500	74	P	
78	**Se**	2	**81.530**	ug/l	4,076.50	1.0	4500	74	P	
88	**Sr**	3	**0.008**	ug/l	0.38	73.3	4500	74	P	
95	**Mo**	3	**100.500**	ug/l	5,025.00	1.6	4500	74	P	
107	**Ag**	3	**12.010**	ug/l	600.50	2.2	450	103	P	
111	**Cd**	3	**1.903**	ug/l	95.15	5.0	900	103	P	
118	**Sn**	3	**99.200**	ug/l	4,960.00	3.7	4500	103	P	
121	**Sb**	3	**56.450**	ug/l	2,822.50	3.1	4500	103	P	
135	**Ba**	3	**76.710**	ug/l	3,835.50	3.6	4500	103	P	
200	**Hg**	3	**0.944**	ug/l	47.20	1.2	45	209	P	
205	**Tl**	3	**77.150**	ug/l	3,857.50	3.9	4500	209	A	
208	**Pb**	3	**19.940**	ug/l	997.00	3.2	4500	209	P	
238	**U**	3	**-0.002**	ug/l	-0.08	7.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4561005	2.98	5119000	**89.1**	30	-	120	
45	Sc	1	269336	0.50	341400	**78.9**	30	-	120	
45	Sc	2	267037	0.97	273900	**97.5**	30	-	120	
74	Ge	1	225033	0.96	283600	**79.3**	30	-	120	
74	Ge	2	424297	0.80	422600	**100.4**	30	-	120	
74	Ge	3	1642762	1.09	1674000	**98.1**	30	-	120	
103	Rh	2	812728	1.54	814900	**99.7**	30	-	120	
103	Rh	3	1533358	0.61	1535000	**99.9**	30	-	120	
165	Ho	3	3278475	1.50	3236000	**101.3**	30	-	120	
175	Lu	3	3619586	1.59	3584000	**101.0**	30	-	120	
209	Bi	3	7699450	0.50	7619000	**101.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\034SMPL.D\034SMPL.D#
Date Acquired: May 27 2010 04:19 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64447/24-A Vial Number: 2110
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**96.400**	ug/l	1,928.00	1.3	450	6	P	
23	**Na**	2	**333.000**	ug/l	6,660.00	1.8	450000	45	P	
24	**Mg**	2	**2580.000**	ug/l	51,600.00	0.3	450000	45	A	
27	**Al**	2	**6251.000**	ug/l	125,020.00	1.0	450000	45	A	
31	**P**	2	**430.200**	ug/l	8,604.00	7.2	450000	45	P	
39	**K**	2	**2449.000**	ug/l	48,980.00	0.2	450000	45	A	
44	**Ca**	2	**5814.000**	ug/l	116,280.00	0.6	450000	45	P	
47	**Ti**	2	**280.300**	ug/l	5,606.00	1.0	4500	45	P	
51	**V**	2	**58.550**	ug/l	1,171.00	1.2	4500	45	P	
52	**Cr**	2	**74.090**	ug/l	1,481.80	1.9	4500	45	P	
54	**Fe**	2	**10870.000**	ug/l	217,400.00	0.8	450000	74	A	
55	**Mn**	2	**217.500**	ug/l	4,350.00	0.6	15000	45	P	
59	**Co**	2	**71.910**	ug/l	1,438.20	0.8	4500	45	P	
60	**Ni**	2	**107.200**	ug/l	2,144.00	1.1	15000	45	P	
63	**Cu**	2	**41.140**	ug/l	822.80	2.5	15000	45	P	
66	**Zn**	2	**215.100**	ug/l	4,302.00	1.6	15000	45	P	
75	**As**	2	**136.600**	ug/l	2,732.00	1.2	4500	74	P	
78	**Se**	2	**92.450**	ug/l	1,849.00	2.2	4500	74	P	
88	**Sr**	3	**72.980**	ug/l	1,459.60	1.4	4500	74	P	
95	**Mo**	3	**67.420**	ug/l	1,348.40	1.7	4500	74	P	
107	**Ag**	3	**21.430**	ug/l	428.60	0.9	450	103	P	
111	**Cd**	3	**40.270**	ug/l	805.40	1.0	900	103	P	
118	**Sn**	3	**99.500**	ug/l	1,990.00	0.6	4500	103	P	
121	**Sb**	3	**84.710**	ug/l	1,694.20	0.1	4500	103	P	
135	**Ba**	3	**330.000**	ug/l	6,600.00	0.7	4500	103	P	
200	**Hg**	3	**2.712**	ug/l	54.24	3.0	45	209	P	
205	**Tl**	3	**104.800**	ug/l	2,096.00	1.1	4500	209	A	
208	**Pb**	3	**131.100**	ug/l	2,622.00	1.6	4500	209	A	
238	**U**	3	**1.039**	ug/l	20.78	3.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4758340	1.60	5119000	**93.0**	30	-	120	
45	Sc	1	273069	1.95	341400	**80.0**	30	-	120	
45	Sc	2	277274	0.52	273900	**101.2**	30	-	120	
74	Ge	1	226619	1.58	283600	**79.9**	30	-	120	
74	Ge	2	426582	0.91	422600	**100.9**	30	-	120	
74	Ge	3	1701036	0.51	1674000	**101.6**	30	-	120	
103	Rh	2	801882	0.70	814900	**98.4**	30	-	120	
103	Rh	3	1557361	1.68	1535000	**101.5**	30	-	120	
165	Ho	3	3316396	0.06	3236000	**102.5**	30	-	120	
175	Lu	3	3684963	0.63	3584000	**102.8**	30	-	120	
209	Bi	3	7556078	0.28	7619000	**99.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\035SMPL.D\035SMPL.D#
Date Acquired: May 27 2010 04:25 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**50.000**	ug/l	50.00	2.9	450	6	P	
23	**Na**	2	**4940.000**	ug/l	4,940.00	1.3	450000	45	A	
24	**Mg**	2	**5093.000**	ug/l	5,093.00	1.1	450000	45	A	
27	**Al**	2	**503.700**	ug/l	503.70	1.3	450000	45	P	
31	**P**	2	**4997.000**	ug/l	4,997.00	1.5	450000	45	P	
39	**K**	2	**5106.000**	ug/l	5,106.00	1.9	450000	45	A	
44	**Ca**	2	**5055.000**	ug/l	5,055.00	1.8	450000	45	P	
47	**Ti**	2	**51.120**	ug/l	51.12	0.4	4500	45	P	
51	**V**	2	**50.100**	ug/l	50.10	1.5	4500	45	P	
52	**Cr**	2	**50.390**	ug/l	50.39	0.8	4500	45	P	
54	**Fe**	2	**5098.000**	ug/l	5,098.00	0.7	450000	74	P	
55	**Mn**	2	**50.730**	ug/l	50.73	0.8	15000	45	P	
59	**Co**	2	**50.750**	ug/l	50.75	1.0	4500	45	P	
60	**Ni**	2	**51.470**	ug/l	51.47	1.8	15000	45	P	
63	**Cu**	2	**51.060**	ug/l	51.06	3.1	15000	45	P	
66	**Zn**	2	**50.550**	ug/l	50.55	1.5	15000	45	P	
75	**As**	2	**51.040**	ug/l	51.04	1.6	4500	74	P	
78	**Se**	2	**47.710**	ug/l	47.71	3.9	4500	74	P	
88	**Sr**	3	**49.970**	ug/l	49.97	2.3	4500	74	P	
95	**Mo**	3	**50.350**	ug/l	50.35	4.4	4500	74	P	
107	**Ag**	3	**49.920**	ug/l	49.92	1.2	450	103	P	
111	**Cd**	3	**49.350**	ug/l	49.35	4.0	900	103	P	
118	**Sn**	3	**49.190**	ug/l	49.19	2.2	4500	103	P	
121	**Sb**	3	**49.760**	ug/l	49.76	2.1	4500	103	P	
135	**Ba**	3	**49.200**	ug/l	49.20	1.7	4500	103	P	
200	**Hg**	3	**2.529**	ug/l	2.53	2.9	45	209	P	
205	**Tl**	3	**51.300**	ug/l	51.30	2.7	4500	209	P	
208	**Pb**	3	**51.220**	ug/l	51.22	1.2	4500	209	P	
238	**U**	3	**49.910**	ug/l	49.91	1.8	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4705420	0.32	5119000	**91.9**	30	-	120	
45	Sc	1	270533	0.98	341400	**79.2**	30	-	120	
45	Sc	2	269996	1.49	273900	**98.6**	30	-	120	
74	Ge	1	227472	0.38	283600	**80.2**	30	-	120	
74	Ge	2	423686	1.31	422600	**100.3**	30	-	120	
74	Ge	3	1674997	1.45	1674000	**100.1**	30	-	120	
103	Rh	2	797506	1.58	814900	**97.9**	30	-	120	
103	Rh	3	1522382	0.51	1535000	**99.2**	30	-	120	
165	Ho	3	3230209	1.14	3236000	**99.8**	30	-	120	
175	Lu	3	3672269	1.21	3584000	**102.5**	30	-	120	
209	Bi	3	7496889	0.21	7619000	**98.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\036SMPL.D\036SMPL.D#
Date Acquired: May 27 2010 04:31 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.016**	ug/l	0.02	5.9	450	6	P	
23	**Na**	2	**3.610**	ug/l	3.61	20.5	450000	45	P	
24	**Mg**	2	**2.057**	ug/l	2.06	6.1	450000	45	P	
27	**Al**	2	**0.315**	ug/l	0.31	34.7	450000	45	P	
31	**P**	2	**-5.881**	ug/l	-5.88	17.5	450000	45	P	
39	**K**	2	**1.627**	ug/l	1.63	331.2	450000	45	P	
44	**Ca**	2	**2.859**	ug/l	2.86	43.6	450000	45	P	
47	**Ti**	2	**0.065**	ug/l	0.07	32.7	4500	45	P	
51	**V**	2	**-0.058**	ug/l	-0.06	31.4	4500	45	P	
52	**Cr**	2	**0.044**	ug/l	0.04	14.4	4500	45	P	
54	**Fe**	2	**2.922**	ug/l	2.92	6.8	450000	74	P	
55	**Mn**	2	**0.036**	ug/l	0.04	13.2	15000	45	P	
59	**Co**	2	**0.019**	ug/l	0.02	31.5	4500	45	P	
60	**Ni**	2	**0.021**	ug/l	0.02	122.9	15000	45	P	
63	**Cu**	2	**0.053**	ug/l	0.05	27.3	15000	45	P	
66	**Zn**	2	**0.055**	ug/l	0.06	70.8	15000	45	P	
75	**As**	2	**-0.026**	ug/l	-0.03	75.6	4500	74	P	
78	**Se**	2	**-0.236**	ug/l	-0.24	144.7	4500	74	P	
88	**Sr**	3	**0.014**	ug/l	0.01	45.2	4500	74	P	
95	**Mo**	3	**0.003**	ug/l	0.00	206.8	4500	74	P	
107	**Ag**	3	**0.014**	ug/l	0.01	35.8	450	103	P	
111	**Cd**	3	**0.007**	ug/l	0.01	66.5	900	103	P	
118	**Sn**	3	**0.079**	ug/l	0.08	33.3	4500	103	P	
121	**Sb**	3	**0.041**	ug/l	0.04	25.4	4500	103	P	
135	**Ba**	3	**0.038**	ug/l	0.04	8.3	4500	103	P	
200	**Hg**	3	**0.018**	ug/l	0.02	15.8	45	209	P	
205	**Tl**	3	**0.728**	ug/l	0.73	7.0	4500	209	P	
208	**Pb**	3	**0.019**	ug/l	0.02	14.0	4500	209	P	
238	**U**	3	**0.010**	ug/l	0.01	5.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4709075	2.38	5119000	**92.0**	30	-	120	
45	Sc	1	272242	0.94	341400	**79.7**	30	-	120	
45	Sc	2	271963	1.19	273900	**99.3**	30	-	120	
74	Ge	1	228380	0.42	283600	**80.5**	30	-	120	
74	Ge	2	430208	0.65	422600	**101.8**	30	-	120	
74	Ge	3	1673594	1.62	1674000	**100.0**	30	-	120	
103	Rh	2	831128	0.35	814900	**102.0**	30	-	120	
103	Rh	3	1563379	0.62	1535000	**101.8**	30	-	120	
165	Ho	3	3275318	2.32	3236000	**101.2**	30	-	120	
175	Lu	3	3648210	0.16	3584000	**101.8**	30	-	120	
209	Bi	3	7728485	0.71	7619000	**101.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\037SMPL.D\037SMPL.D#
Date Acquired: May 27 2010 04:37 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-2-B Vial Number: 2201
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.208**	ug/l	12.08	1.8	450	6	P	
23	**Na**	2	**63.680**	ug/l	636.80	3.8	450000	45	P	
24	**Mg**	2	**63640.000**	ug/l	636,400.00	0.7	450000	45	A	
27	**Al**	2	**14450.000**	ug/l	144,500.00	0.9	450000	45	A	
31	**P**	2	**859.200**	ug/l	8,592.00	6.0	450000	45	P	
39	**K**	2	**2521.000**	ug/l	25,210.00	1.4	450000	45	A	
44	**Ca**	2	**7036.000**	ug/l	70,360.00	0.4	450000	45	P	
47	**Ti**	2	**239.800**	ug/l	2,398.00	0.4	4500	45	P	
51	**V**	2	**62.600**	ug/l	626.00	0.8	4500	45	P	
52	**Cr**	2	**365.400**	ug/l	3,654.00	0.7	4500	45	A	
54	**Fe**	2	**62880.000**	ug/l	628,800.00	3.4	450000	74	A	
55	**Mn**	2	**894.100**	ug/l	8,941.00	0.5	15000	45	A	
59	**Co**	2	**50.630**	ug/l	506.30	0.9	4500	45	P	
60	**Ni**	2	**702.500**	ug/l	7,025.00	0.9	15000	45	P	
63	**Cu**	2	**53.150**	ug/l	531.50	1.8	15000	45	P	
66	**Zn**	2	**113.700**	ug/l	1,137.00	1.8	15000	45	P	
75	**As**	2	**15.720**	ug/l	157.20	3.1	4500	74	P	
78	**Se**	2	**0.285**	ug/l	2.85	91.9	4500	74	P	
88	**Sr**	3	**42.210**	ug/l	422.10	1.5	4500	74	P	
95	**Mo**	3	**0.602**	ug/l	6.02	8.2	4500	74	P	
107	**Ag**	3	**0.146**	ug/l	1.46	9.0	450	103	P	
111	**Cd**	3	**0.357**	ug/l	3.57	7.4	900	103	P	
118	**Sn**	3	**0.816**	ug/l	8.16	10.2	4500	103	P	
121	**Sb**	3	**0.787**	ug/l	7.87	4.6	4500	103	P	
135	**Ba**	3	**252.300**	ug/l	2,523.00	2.3	4500	103	P	
200	**Hg**	3	**518.700**	ug/l	5,187.00	2.1	45	209	A	Fail
205	**Tl**	3	**0.544**	ug/l	5.44	3.8	4500	209	P	
208	**Pb**	3	**16.500**	ug/l	165.00	1.7	4500	209	P	
238	**U**	3	**0.973**	ug/l	9.73	3.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4027359	1.47	5119000	**78.7**	30	-	120	
45	Sc	1	270061	1.57	341400	**79.1**	30	-	120	
45	Sc	2	276511	1.19	273900	**101.0**	30	-	120	
74	Ge	1	208803	2.52	283600	**73.6**	30	-	120	
74	Ge	2	397012	2.16	422600	**93.9**	30	-	120	
74	Ge	3	1522533	0.88	1674000	**91.0**	30	-	120	
103	Rh	2	740177	1.29	814900	**90.8**	30	-	120	
103	Rh	3	1385041	1.03	1535000	**90.2**	30	-	120	
165	Ho	3	3161199	0.62	3236000	**97.7**	30	-	120	
175	Lu	3	3531056	0.82	3584000	**98.5**	30	-	120	
209	Bi	3	6927820	0.59	7619000	**90.9**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\038SMPL.D\038SMPL.D#
Date Acquired: May 27 2010 04:44 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-3-B Vial Number: 2202
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.304**	ug/l	13.04	5.7	450	6	P	
23	**Na**	2	**195.300**	ug/l	1,953.00	1.0	450000	45	P	
24	**Mg**	2	**94980.000**	ug/l	949,800.00	1.8	450000	45	A	
27	**Al**	2	**42820.000**	ug/l	428,200.00	1.3	450000	45	A	
31	**P**	2	**836.800**	ug/l	8,368.00	2.0	450000	45	P	
39	**K**	2	**1847.000**	ug/l	18,470.00	0.5	450000	45	P	
44	**Ca**	2	**23890.000**	ug/l	238,900.00	1.3	450000	45	P	
47	**Ti**	2	**352.300**	ug/l	3,523.00	1.3	4500	45	P	
51	**V**	2	**112.500**	ug/l	1,125.00	0.7	4500	45	P	
52	**Cr**	2	**794.400**	ug/l	7,944.00	1.9	4500	45	A	
54	**Fe**	2	**77180.000**	ug/l	771,800.00	1.2	450000	74	A	
55	**Mn**	2	**1281.000**	ug/l	12,810.00	1.3	15000	45	A	
59	**Co**	2	**68.190**	ug/l	681.90	0.6	4500	45	P	
60	**Ni**	2	**1029.000**	ug/l	10,290.00	1.6	15000	45	P	
63	**Cu**	2	**72.290**	ug/l	722.90	1.0	15000	45	P	
66	**Zn**	2	**133.100**	ug/l	1,331.00	0.6	15000	45	P	
75	**As**	2	**12.890**	ug/l	128.90	2.0	4500	74	P	
78	**Se**	2	**1.025**	ug/l	10.25	90.6	4500	74	P	
88	**Sr**	3	**290.400**	ug/l	2,904.00	2.5	4500	74	A	
95	**Mo**	3	**1.350**	ug/l	13.50	4.6	4500	74	P	
107	**Ag**	3	**0.122**	ug/l	1.22	5.9	450	103	P	
111	**Cd**	3	**0.347**	ug/l	3.47	7.6	900	103	P	
118	**Sn**	3	**1.431**	ug/l	14.31	6.9	4500	103	P	
121	**Sb**	3	**0.761**	ug/l	7.61	8.2	4500	103	P	
135	**Ba**	3	**417.500**	ug/l	4,175.00	1.7	4500	103	P	
200	**Hg**	3	**28.020**	ug/l	280.20	2.5	45	209	P	
205	**Tl**	3	**0.379**	ug/l	3.79	6.0	4500	209	P	
208	**Pb**	3	**16.980**	ug/l	169.80	3.3	4500	209	P	
238	**U**	3	**0.392**	ug/l	3.92	5.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3871321	0.70	5119000	**75.6**	30	-	120	
45	Sc	1	270973	1.29	341400	**79.4**	30	-	120	
45	Sc	2	268104	1.23	273900	**97.9**	30	-	120	
74	Ge	1	202097	0.76	283600	**71.3**	30	-	120	
74	Ge	2	377409	1.14	422600	**89.3**	30	-	120	
74	Ge	3	1456683	1.59	1674000	**87.0**	30	-	120	
103	Rh	2	692490	0.80	814900	**85.0**	30	-	120	
103	Rh	3	1293345	1.30	1535000	**84.3**	30	-	120	
165	Ho	3	3073289	0.83	3236000	**95.0**	30	-	120	
175	Lu	3	3417134	0.66	3584000	**95.3**	30	-	120	
209	Bi	3	6674272	1.73	7619000	**87.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\039SMPL.D\039SMPL.D#
Date Acquired: May 27 2010 04:51 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-4-B Vial Number: 2203
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.243**	ug/l	12.43	2.0	450	6	P	
23	**Na**	2	**135.400**	ug/l	1,354.00	2.1	450000	45	P	
24	**Mg**	2	**95230.000**	ug/l	952,300.00	1.6	450000	45	A	
27	**Al**	2	**19710.000**	ug/l	197,100.00	0.9	450000	45	A	
31	**P**	2	**518.300**	ug/l	5,183.00	1.3	450000	45	P	
39	**K**	2	**1512.000**	ug/l	15,120.00	0.8	450000	45	P	
44	**Ca**	2	**12710.000**	ug/l	127,100.00	1.3	450000	45	P	
47	**Ti**	2	**1059.000**	ug/l	10,590.00	0.3	4500	45	P	
51	**V**	2	**133.800**	ug/l	1,338.00	1.1	4500	45	P	
52	**Cr**	2	**542.000**	ug/l	5,420.00	3.0	4500	45	A	
54	**Fe**	2	**104100.000**	ug/l	1,041,000.00	1.4	450000	74	A	
55	**Mn**	2	**3903.000**	ug/l	39,030.00	2.4	15000	45	A	
59	**Co**	2	**92.280**	ug/l	922.80	0.6	4500	45	P	
60	**Ni**	2	**1140.000**	ug/l	11,400.00	1.1	15000	45	A	
63	**Cu**	2	**153.600**	ug/l	1,536.00	0.5	15000	45	P	
66	**Zn**	2	**165.300**	ug/l	1,653.00	1.5	15000	45	P	
75	**As**	2	**13.170**	ug/l	131.70	2.3	4500	74	P	
78	**Se**	2	**1.698**	ug/l	16.98	60.2	4500	74	P	
88	**Sr**	3	**130.200**	ug/l	1,302.00	1.2	4500	74	A	
95	**Mo**	3	**3.150**	ug/l	31.50	7.3	4500	74	P	
107	**Ag**	3	**0.070**	ug/l	0.70	7.0	450	103	P	
111	**Cd**	3	**0.434**	ug/l	4.34	14.2	900	103	P	
118	**Sn**	3	**1.593**	ug/l	15.93	3.1	4500	103	P	
121	**Sb**	3	**0.882**	ug/l	8.82	3.1	4500	103	P	
135	**Ba**	3	**515.500**	ug/l	5,155.00	0.7	4500	103	P	
200	**Hg**	3	**16.920**	ug/l	169.20	0.9	45	209	P	
205	**Tl**	3	**0.431**	ug/l	4.31	3.1	4500	209	P	
208	**Pb**	3	**15.900**	ug/l	159.00	1.1	4500	209	P	
238	**U**	3	**0.271**	ug/l	2.71	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3786083	0.50	5119000	**74.0**	30	-	120	
45	Sc	1	283619	0.61	341400	**83.1**	30	-	120	
45	Sc	2	278639	1.36	273900	**101.7**	30	-	120	
74	Ge	1	201072	1.73	283600	**70.9**	30	-	120	
74	Ge	2	376394	1.42	422600	**89.1**	30	-	120	
74	Ge	3	1465612	0.83	1674000	**87.6**	30	-	120	
103	Rh	2	694682	1.32	814900	**85.2**	30	-	120	
103	Rh	3	1326748	0.46	1535000	**86.4**	30	-	120	
165	Ho	3	3103787	1.90	3236000	**95.9**	30	-	120	
175	Lu	3	3464470	0.46	3584000	**96.7**	30	-	120	
209	Bi	3	6769087	1.15	7619000	**88.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\040SMPL.D\040SMPL.D#
Date Acquired: May 27 2010 04:58 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-5-B Vial Number: 2204
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.450**	ug/l	14.50	3.4	450	6	P	
23	**Na**	2	**277.100**	ug/l	2,771.00	2.6	450000	45	P	
24	**Mg**	2	**99820.000**	ug/l	998,200.00	0.5	450000	45	A	
27	**Al**	2	**57300.000**	ug/l	573,000.00	0.8	450000	45	A	
31	**P**	2	**1058.000**	ug/l	10,580.00	0.9	450000	45	P	
39	**K**	2	**2216.000**	ug/l	22,160.00	1.2	450000	45	A	
44	**Ca**	2	**14460.000**	ug/l	144,600.00	0.5	450000	45	P	
47	**Ti**	2	**3170.000**	ug/l	31,700.00	0.1	4500	45	P	
51	**V**	2	**146.200**	ug/l	1,462.00	0.6	4500	45	P	
52	**Cr**	2	**618.200**	ug/l	6,182.00	1.7	4500	45	A	
54	**Fe**	2	**91270.000**	ug/l	912,700.00	2.0	450000	74	A	
55	**Mn**	2	**1333.000**	ug/l	13,330.00	0.6	15000	45	A	
59	**Co**	2	**76.130**	ug/l	761.30	0.4	4500	45	P	
60	**Ni**	2	**983.500**	ug/l	9,835.00	0.5	15000	45	P	
63	**Cu**	2	**89.710**	ug/l	897.10	0.6	15000	45	P	
66	**Zn**	2	**160.300**	ug/l	1,603.00	1.2	15000	45	P	
75	**As**	2	**20.700**	ug/l	207.00	1.0	4500	74	P	
78	**Se**	2	**1.082**	ug/l	10.82	11.6	4500	74	P	
88	**Sr**	3	**135.900**	ug/l	1,359.00	0.2	4500	74	A	
95	**Mo**	3	**1.592**	ug/l	15.92	0.8	4500	74	P	
107	**Ag**	3	**0.206**	ug/l	2.06	8.9	450	103	P	
111	**Cd**	3	**0.438**	ug/l	4.38	29.3	900	103	P	
118	**Sn**	3	**1.451**	ug/l	14.51	4.1	4500	103	P	
121	**Sb**	3	**1.191**	ug/l	11.91	5.6	4500	103	P	
135	**Ba**	3	**401.100**	ug/l	4,011.00	1.4	4500	103	P	
200	**Hg**	3	**1.320**	ug/l	13.20	2.4	45	209	P	
205	**Tl**	3	**0.314**	ug/l	3.14	9.0	4500	209	P	
208	**Pb**	3	**21.340**	ug/l	213.40	0.8	4500	209	P	
238	**U**	3	**0.612**	ug/l	6.12	2.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3811934	2.45	5119000	**74.5**	30	-	120	
45	Sc	1	268731	0.62	341400	**78.7**	30	-	120	
45	Sc	2	271162	1.16	273900	**99.0**	30	-	120	
74	Ge	1	196415	0.43	283600	**69.3**	30	-	120	
74	Ge	2	381321	1.26	422600	**90.2**	30	-	120	
74	Ge	3	1489937	1.36	1674000	**89.0**	30	-	120	
103	Rh	2	696320	1.38	814900	**85.4**	30	-	120	
103	Rh	3	1327474	1.21	1535000	**86.5**	30	-	120	
165	Ho	3	3095567	0.77	3236000	**95.7**	30	-	120	
175	Lu	3	3484716	0.30	3584000	**97.2**	30	-	120	
209	Bi	3	6747242	0.37	7619000	**88.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\041SMPL.D\041SMPL.D#
Date Acquired: May 27 2010 05:05 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-6-B Vial Number: 2205
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.278**	ug/l	12.78	3.9	450	6	P	
23	**Na**	2	**110.400**	ug/l	1,104.00	5.0	450000	45	P	
24	**Mg**	2	**48160.000**	ug/l	481,600.00	1.6	450000	45	A	
27	**Al**	2	**36800.000**	ug/l	368,000.00	1.7	450000	45	A	
31	**P**	2	**830.600**	ug/l	8,306.00	2.1	450000	45	P	
39	**K**	2	**2512.000**	ug/l	25,120.00	0.3	450000	45	A	
44	**Ca**	2	**6816.000**	ug/l	68,160.00	0.9	450000	45	P	
47	**Ti**	2	**1433.000**	ug/l	14,330.00	0.8	4500	45	P	
51	**V**	2	**102.300**	ug/l	1,023.00	1.3	4500	45	P	
52	**Cr**	2	**293.600**	ug/l	2,936.00	1.2	4500	45	P	
54	**Fe**	2	**68110.000**	ug/l	681,100.00	1.1	450000	74	A	
55	**Mn**	2	**1229.000**	ug/l	12,290.00	1.8	15000	45	A	
59	**Co**	2	**50.580**	ug/l	505.80	1.7	4500	45	P	
60	**Ni**	2	**551.400**	ug/l	5,514.00	1.4	15000	45	P	
63	**Cu**	2	**65.970**	ug/l	659.70	1.0	15000	45	P	
66	**Zn**	2	**205.400**	ug/l	2,054.00	0.8	15000	45	P	
75	**As**	2	**12.790**	ug/l	127.90	1.5	4500	74	P	
78	**Se**	2	**0.643**	ug/l	6.43	96.2	4500	74	P	
88	**Sr**	3	**67.900**	ug/l	679.00	1.5	4500	74	P	
95	**Mo**	3	**0.976**	ug/l	9.76	7.1	4500	74	P	
107	**Ag**	3	**0.108**	ug/l	1.08	17.5	450	103	P	
111	**Cd**	3	**0.501**	ug/l	5.01	8.0	900	103	P	
118	**Sn**	3	**1.067**	ug/l	10.67	1.5	4500	103	P	
121	**Sb**	3	**0.816**	ug/l	8.16	3.5	4500	103	P	
135	**Ba**	3	**403.700**	ug/l	4,037.00	1.5	4500	103	P	
200	**Hg**	3	**3.047**	ug/l	30.47	1.7	45	209	P	
205	**Tl**	3	**0.270**	ug/l	2.70	1.0	4500	209	P	
208	**Pb**	3	**20.800**	ug/l	208.00	0.7	4500	209	P	
238	**U**	3	**0.930**	ug/l	9.30	2.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4138952	1.35	5119000	**80.9**	30	-	120	
45	Sc	1	257945	1.29	341400	**75.6**	30	-	120	
45	Sc	2	283962	0.85	273900	**103.7**	30	-	120	
74	Ge	1	196672	2.42	283600	**69.3**	30	-	120	
74	Ge	2	410314	0.23	422600	**97.1**	30	-	120	
74	Ge	3	1625988	0.90	1674000	**97.1**	30	-	120	
103	Rh	2	756092	1.32	814900	**92.8**	30	-	120	
103	Rh	3	1482378	1.05	1535000	**96.6**	30	-	120	
165	Ho	3	3305618	0.50	3236000	**102.2**	30	-	120	
175	Lu	3	3631309	0.74	3584000	**101.3**	30	-	120	
209	Bi	3	7163596	0.26	7619000	**94.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed

0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\042SMPL.D\042SMPL.D#
Date Acquired: May 27 2010 05:12 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-7-B Vial Number: 2206
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.315**	ug/l	13.15	4.3	450	6	P	
23	**Na**	2	**131.800**	ug/l	1,318.00	0.8	450000	45	P	
24	**Mg**	2	**72930.000**	ug/l	729,300.00	0.6	450000	45	A	
27	**Al**	2	**28220.000**	ug/l	282,200.00	1.4	450000	45	A	
31	**P**	2	**2112.000**	ug/l	21,120.00	2.1	450000	45	P	
39	**K**	2	**3637.000**	ug/l	36,370.00	1.9	450000	45	A	
44	**Ca**	2	**11080.000**	ug/l	110,800.00	1.0	450000	45	P	
47	**Ti**	2	**1031.000**	ug/l	10,310.00	0.7	4500	45	P	
51	**V**	2	**78.850**	ug/l	788.50	0.7	4500	45	P	
52	**Cr**	2	**335.700**	ug/l	3,357.00	0.3	4500	45	P	
54	**Fe**	2	**73190.000**	ug/l	731,900.00	1.5	450000	74	A	
55	**Mn**	2	**1241.000**	ug/l	12,410.00	0.7	15000	45	A	
59	**Co**	2	**59.440**	ug/l	594.40	0.2	4500	45	P	
60	**Ni**	2	**795.400**	ug/l	7,954.00	0.6	15000	45	P	
63	**Cu**	2	**82.940**	ug/l	829.40	0.6	15000	45	P	
66	**Zn**	2	**150.900**	ug/l	1,509.00	0.6	15000	45	P	
75	**As**	2	**12.600**	ug/l	126.00	1.4	4500	74	P	
78	**Se**	2	**1.001**	ug/l	10.01	138.1	4500	74	P	
88	**Sr**	3	**95.130**	ug/l	951.30	1.9	4500	74	A	
95	**Mo**	3	**1.332**	ug/l	13.32	3.5	4500	74	P	
107	**Ag**	3	**0.204**	ug/l	2.04	13.3	450	103	P	
111	**Cd**	3	**0.555**	ug/l	5.55	5.4	900	103	P	
118	**Sn**	3	**1.019**	ug/l	10.19	2.3	4500	103	P	
121	**Sb**	3	**0.733**	ug/l	7.33	7.9	4500	103	P	
135	**Ba**	3	**643.400**	ug/l	6,434.00	2.0	4500	103	P	
200	**Hg**	3	**92.230**	ug/l	922.30	0.3	45	209	P	Fail
205	**Tl**	3	**0.320**	ug/l	3.20	2.2	4500	209	P	
208	**Pb**	3	**22.570**	ug/l	225.70	0.9	4500	209	P	
238	**U**	3	**0.909**	ug/l	9.09	2.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4040325	0.50	5119000	**78.9**	30	-	120	
45	Sc	1	253682	1.49	341400	**74.3**	30	-	120	
45	Sc	2	273470	0.36	273900	**99.8**	30	-	120	
74	Ge	1	196400	1.57	283600	**69.3**	30	-	120	
74	Ge	2	398974	1.47	422600	**94.4**	30	-	120	
74	Ge	3	1539041	0.64	1674000	**91.9**	30	-	120	
103	Rh	2	727073	0.73	814900	**89.2**	30	-	120	
103	Rh	3	1374976	0.24	1535000	**89.6**	30	-	120	
165	Ho	3	3145857	0.41	3236000	**97.2**	30	-	120	
175	Lu	3	3501357	0.40	3584000	**97.7**	30	-	120	
209	Bi	3	6919766	0.66	7619000	**90.8**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\043SMPL.D\043SMPL.D#
Date Acquired: May 27 2010 05:19 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-8-B Vial Number: 2207
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.648**	ug/l	16.48	1.9	450	6	P	
23	**Na**	2	**142.400**	ug/l	1,424.00	1.7	450000	45	P	
24	**Mg**	2	**55400.000**	ug/l	554,000.00	1.2	450000	45	A	
27	**Al**	2	**52470.000**	ug/l	524,700.00	1.4	450000	45	A	
31	**P**	2	**1078.000**	ug/l	10,780.00	2.5	450000	45	P	
39	**K**	2	**2535.000**	ug/l	25,350.00	1.5	450000	45	A	
44	**Ca**	2	**11960.000**	ug/l	119,600.00	1.0	450000	45	P	
47	**Ti**	2	**1315.000**	ug/l	13,150.00	0.2	4500	45	P	
51	**V**	2	**135.000**	ug/l	1,350.00	1.2	4500	45	P	
52	**Cr**	2	**445.500**	ug/l	4,455.00	0.7	4500	45	A	
54	**Fe**	2	**104800.000**	ug/l	1,048,000.00	1.1	450000	74	A	
55	**Mn**	2	**2056.000**	ug/l	20,560.00	1.8	15000	45	A	
59	**Co**	2	**75.680**	ug/l	756.80	0.4	4500	45	P	
60	**Ni**	2	**1020.000**	ug/l	10,200.00	0.2	15000	45	P	
63	**Cu**	2	**106.100**	ug/l	1,061.00	1.6	15000	45	P	
66	**Zn**	2	**176.400**	ug/l	1,764.00	2.1	15000	45	P	
75	**As**	2	**26.640**	ug/l	266.40	1.9	4500	74	P	
78	**Se**	2	**1.554**	ug/l	15.54	10.5	4500	74	P	
88	**Sr**	3	**68.860**	ug/l	688.60	0.8	4500	74	P	
95	**Mo**	3	**2.551**	ug/l	25.51	0.6	4500	74	P	
107	**Ag**	3	**0.212**	ug/l	2.12	9.5	450	103	P	
111	**Cd**	3	**0.471**	ug/l	4.71	11.0	900	103	P	
118	**Sn**	3	**1.348**	ug/l	13.48	5.7	4500	103	P	
121	**Sb**	3	**1.672**	ug/l	16.72	4.9	4500	103	P	
135	**Ba**	3	**575.100**	ug/l	5,751.00	2.5	4500	103	P	
200	**Hg**	3	**248.900**	ug/l	2,489.00	1.4	45	209	P	Fail
205	**Tl**	3	**0.305**	ug/l	3.05	3.2	4500	209	P	
208	**Pb**	3	**28.030**	ug/l	280.30	1.4	4500	209	P	
238	**U**	3	**0.495**	ug/l	4.95	7.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3835144	1.35	5119000	**74.9**	30	-	120	
45	Sc	1	267531	0.98	341400	**78.4**	30	-	120	
45	Sc	2	277819	0.83	273900	**101.4**	30	-	120	
74	Ge	1	197288	1.01	283600	**69.6**	30	-	120	
74	Ge	2	386645	0.89	422600	**91.5**	30	-	120	
74	Ge	3	1509741	1.05	1674000	**90.2**	30	-	120	
103	Rh	2	711747	0.29	814900	**87.3**	30	-	120	
103	Rh	3	1371119	2.13	1535000	**89.3**	30	-	120	
165	Ho	3	3129831	1.31	3236000	**96.7**	30	-	120	
175	Lu	3	3470488	1.54	3584000	**96.8**	30	-	120	
209	Bi	3	6845491	1.02	7619000	**89.8**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\044SMPL.D\044SMPL.D#
Date Acquired: May 27 2010 05:26 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-9-B Vial Number: 2208
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.054**	ug/l	10.54	5.0	450	6	P	
23	**Na**	2	**86.690**	ug/l	866.90	3.7	450000	45	P	
24	**Mg**	2	**55500.000**	ug/l	555,000.00	2.2	450000	45	A	
27	**Al**	2	**27710.000**	ug/l	277,100.00	2.0	450000	45	A	
31	**P**	2	**715.200**	ug/l	7,152.00	1.3	450000	45	P	
39	**K**	2	**2227.000**	ug/l	22,270.00	1.0	450000	45	A	
44	**Ca**	2	**5582.000**	ug/l	55,820.00	0.8	450000	45	P	
47	**Ti**	2	**72.670**	ug/l	726.70	2.0	4500	45	P	
51	**V**	2	**89.910**	ug/l	899.10	1.4	4500	45	P	
52	**Cr**	2	**424.200**	ug/l	4,242.00	1.2	4500	45	A	
54	**Fe**	2	**88730.000**	ug/l	887,300.00	0.3	450000	74	A	
55	**Mn**	2	**1200.000**	ug/l	12,000.00	1.7	15000	45	A	
59	**Co**	2	**92.440**	ug/l	924.40	1.0	4500	45	P	
60	**Ni**	2	**1549.000**	ug/l	15,490.00	1.1	15000	45	A	
63	**Cu**	2	**68.230**	ug/l	682.30	0.6	15000	45	P	
66	**Zn**	2	**128.300**	ug/l	1,283.00	2.0	15000	45	P	
75	**As**	2	**19.790**	ug/l	197.90	0.6	4500	74	P	
78	**Se**	2	**1.597**	ug/l	15.97	42.7	4500	74	P	
88	**Sr**	3	**35.520**	ug/l	355.20	3.0	4500	74	P	
95	**Mo**	3	**1.184**	ug/l	11.84	9.3	4500	74	P	
107	**Ag**	3	**0.177**	ug/l	1.77	3.4	450	103	P	
111	**Cd**	3	**0.333**	ug/l	3.33	2.6	900	103	P	
118	**Sn**	3	**1.301**	ug/l	13.01	4.3	4500	103	P	
121	**Sb**	3	**1.388**	ug/l	13.88	6.4	4500	103	P	
135	**Ba**	3	**234.000**	ug/l	2,340.00	1.5	4500	103	P	
200	**Hg**	3	**868.100**	ug/l	8,681.00	0.7	45	209	A	Fail
205	**Tl**	3	**0.296**	ug/l	2.96	4.2	4500	209	P	
208	**Pb**	3	**20.130**	ug/l	201.30	0.8	4500	209	P	
238	**U**	3	**0.344**	ug/l	3.44	3.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3817469	1.65	5119000	**74.6**	30	-	120	
45	Sc	1	249511	1.54	341400	**73.1**	30	-	120	
45	Sc	2	275100	1.29	273900	**100.4**	30	-	120	
74	Ge	1	192058	0.49	283600	**67.7**	30	-	120	
74	Ge	2	392280	0.95	422600	**92.8**	30	-	120	
74	Ge	3	1548816	1.10	1674000	**92.5**	30	-	120	
103	Rh	2	725392	1.12	814900	**89.0**	30	-	120	
103	Rh	3	1375968	1.30	1535000	**89.6**	30	-	120	
165	Ho	3	3113791	0.69	3236000	**96.2**	30	-	120	
175	Lu	3	3445853	1.78	3584000	**96.1**	30	-	120	
209	Bi	3	6870333	0.94	7619000	**90.2**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\045SMPL.D\045SMPL.D#
Date Acquired: May 27 2010 05:33 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-10-B Vial Number: 2209
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.083**	ug/l	10.83	3.8	450	6	P	
23	**Na**	2	**54.790**	ug/l	547.90	2.4	450000	45	P	
24	**Mg**	2	**89800.000**	ug/l	898,000.00	0.8	450000	45	A	
27	**Al**	2	**35300.000**	ug/l	353,000.00	1.6	450000	45	A	
31	**P**	2	**636.800**	ug/l	6,368.00	3.4	450000	45	P	
39	**K**	2	**1562.000**	ug/l	15,620.00	1.0	450000	45	P	
44	**Ca**	2	**3221.000**	ug/l	32,210.00	1.0	450000	45	P	
47	**Ti**	2	**69.820**	ug/l	698.20	4.7	4500	45	P	
51	**V**	2	**104.100**	ug/l	1,041.00	0.1	4500	45	P	
52	**Cr**	2	**693.500**	ug/l	6,935.00	0.9	4500	45	A	
54	**Fe**	2	**96480.000**	ug/l	964,800.00	0.7	450000	74	A	
55	**Mn**	2	**1532.000**	ug/l	15,320.00	1.6	15000	45	A	
59	**Co**	2	**106.900**	ug/l	1,069.00	0.6	4500	45	P	
60	**Ni**	2	**1951.000**	ug/l	19,510.00	1.0	15000	45	A	
63	**Cu**	2	**62.010**	ug/l	620.10	0.8	15000	45	P	
66	**Zn**	2	**128.400**	ug/l	1,284.00	3.0	15000	45	P	
75	**As**	2	**12.520**	ug/l	125.20	1.3	4500	74	P	
78	**Se**	2	**1.000**	ug/l	10.00	90.2	4500	74	P	
88	**Sr**	3	**21.340**	ug/l	213.40	0.5	4500	74	P	
95	**Mo**	3	**0.563**	ug/l	5.63	4.4	4500	74	P	
107	**Ag**	3	**0.158**	ug/l	1.58	14.6	450	103	P	
111	**Cd**	3	**0.293**	ug/l	2.93	18.2	900	103	P	
118	**Sn**	3	**1.010**	ug/l	10.10	1.6	4500	103	P	
121	**Sb**	3	**0.750**	ug/l	7.50	5.1	4500	103	P	
135	**Ba**	3	**341.100**	ug/l	3,411.00	1.5	4500	103	P	
200	**Hg**	3	**1408.000**	ug/l	14,080.00	0.9	45	209	A	Fail
205	**Tl**	3	**0.200**	ug/l	2.00	6.3	4500	209	P	
208	**Pb**	3	**18.010**	ug/l	180.10	1.6	4500	209	P	
238	**U**	3	**0.285**	ug/l	2.85	2.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3561851	1.24	5119000	**69.6**	30	-	120	
45	Sc	1	242180	0.23	341400	**70.9**	30	-	120	
45	Sc	2	263229	0.82	273900	**96.1**	30	-	120	
74	Ge	1	182949	0.74	283600	**64.5**	30	-	120	
74	Ge	2	380974	0.28	422600	**90.2**	30	-	120	
74	Ge	3	1461842	0.93	1674000	**87.3**	30	-	120	
103	Rh	2	704642	0.61	814900	**86.5**	30	-	120	
103	Rh	3	1311428	1.40	1535000	**85.4**	30	-	120	
165	Ho	3	3035197	0.99	3236000	**93.8**	30	-	120	
175	Lu	3	3395777	0.64	3584000	**94.7**	30	-	120	
209	Bi	3	6652569	1.08	7619000	**87.3**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\046SMPL.D\046SMPL.D#
Date Acquired: May 27 2010 05:40 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-11-B Vial Number: 2210
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.993**	ug/l	9.93	5.4	450	6	P	
23	**Na**	2	**90.360**	ug/l	903.60	2.8	450000	45	P	
24	**Mg**	2	**18260.000**	ug/l	182,600.00	1.0	450000	45	A	
27	**Al**	2	**30000.000**	ug/l	300,000.00	1.4	450000	45	A	
31	**P**	2	**594.500**	ug/l	5,945.00	3.2	450000	45	P	
39	**K**	2	**1981.000**	ug/l	19,810.00	1.8	450000	45	P	
44	**Ca**	2	**36590.000**	ug/l	365,900.00	0.9	450000	45	P	
47	**Ti**	2	**125.700**	ug/l	1,257.00	4.4	4500	45	P	
51	**V**	2	**91.570**	ug/l	915.70	0.5	4500	45	P	
52	**Cr**	2	**762.900**	ug/l	7,629.00	0.5	4500	45	A	
54	**Fe**	2	**91030.000**	ug/l	910,300.00	1.5	450000	74	A	
55	**Mn**	2	**1197.000**	ug/l	11,970.00	1.3	15000	45	A	
59	**Co**	2	**55.330**	ug/l	553.30	0.9	4500	45	P	
60	**Ni**	2	**509.600**	ug/l	5,096.00	1.2	15000	45	P	
63	**Cu**	2	**85.080**	ug/l	850.80	1.6	15000	45	P	
66	**Zn**	2	**141.800**	ug/l	1,418.00	0.8	15000	45	P	
75	**As**	2	**19.310**	ug/l	193.10	2.9	4500	74	P	
78	**Se**	2	**1.430**	ug/l	14.30	32.7	4500	74	P	
88	**Sr**	3	**53.590**	ug/l	535.90	0.4	4500	74	P	
95	**Mo**	3	**2.907**	ug/l	29.07	5.3	4500	74	P	
107	**Ag**	3	**0.132**	ug/l	1.32	1.4	450	103	P	
111	**Cd**	3	**0.320**	ug/l	3.20	13.9	900	103	P	
118	**Sn**	3	**1.525**	ug/l	15.25	1.4	4500	103	P	
121	**Sb**	3	**1.536**	ug/l	15.36	2.5	4500	103	P	
135	**Ba**	3	**457.300**	ug/l	4,573.00	0.4	4500	103	P	
200	**Hg**	3	**1524.000**	ug/l	15,240.00	0.8	45	209	A	Fail
205	**Tl**	3	**0.371**	ug/l	3.71	4.1	4500	209	P	
208	**Pb**	3	**38.040**	ug/l	380.40	1.0	4500	209	P	
238	**U**	3	**0.362**	ug/l	3.62	2.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3800788	2.78	5119000	**74.2**	30	-	120	
45	Sc	1	263719	0.51	341400	**77.2**	30	-	120	
45	Sc	2	267832	0.18	273900	**97.8**	30	-	120	
74	Ge	1	202349	1.16	283600	**71.4**	30	-	120	
74	Ge	2	393318	1.27	422600	**93.1**	30	-	120	
74	Ge	3	1516138	0.05	1674000	**90.6**	30	-	120	
103	Rh	2	724451	0.86	814900	**88.9**	30	-	120	
103	Rh	3	1363868	1.55	1535000	**88.9**	30	-	120	
165	Ho	3	3114405	1.02	3236000	**96.2**	30	-	120	
175	Lu	3	3513836	1.21	3584000	**98.0**	30	-	120	
209	Bi	3	6994983	0.44	7619000	**91.8**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\047SMPL.D\047SMPL.D#
Date Acquired: May 27 2010 05:47 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**52.680**	ug/l	52.68	1.9	450	6	P	
23	**Na**	2	**5027.000**	ug/l	5,027.00	2.8	450000	45	A	
24	**Mg**	2	**5085.000**	ug/l	5,085.00	2.3	450000	45	A	
27	**Al**	2	**509.100**	ug/l	509.10	1.5	450000	45	P	
31	**P**	2	**5072.000**	ug/l	5,072.00	2.2	450000	45	P	
39	**K**	2	**5225.000**	ug/l	5,225.00	2.0	450000	45	A	
44	**Ca**	2	**5205.000**	ug/l	5,205.00	1.6	450000	45	P	
47	**Ti**	2	**51.670**	ug/l	51.67	1.4	4500	45	P	
51	**V**	2	**51.570**	ug/l	51.57	2.4	4500	45	P	
52	**Cr**	2	**51.200**	ug/l	51.20	1.3	4500	45	P	
54	**Fe**	2	**5194.000**	ug/l	5,194.00	0.2	450000	74	P	
55	**Mn**	2	**52.390**	ug/l	52.39	1.2	15000	45	P	
59	**Co**	2	**51.770**	ug/l	51.77	1.4	4500	45	P	
60	**Ni**	2	**52.490**	ug/l	52.49	1.7	15000	45	P	
63	**Cu**	2	**51.770**	ug/l	51.77	2.2	15000	45	P	
66	**Zn**	2	**52.960**	ug/l	52.96	1.4	15000	45	P	
75	**As**	2	**51.610**	ug/l	51.61	0.7	4500	74	P	
78	**Se**	2	**53.700**	ug/l	53.70	8.4	4500	74	P	
88	**Sr**	3	**52.570**	ug/l	52.57	0.8	4500	74	P	
95	**Mo**	3	**52.770**	ug/l	52.77	1.3	4500	74	P	
107	**Ag**	3	**51.410**	ug/l	51.41	1.1	450	103	P	
111	**Cd**	3	**50.930**	ug/l	50.93	2.1	900	103	P	
118	**Sn**	3	**51.460**	ug/l	51.46	0.7	4500	103	P	
121	**Sb**	3	**51.360**	ug/l	51.36	0.8	4500	103	P	
135	**Ba**	3	**52.220**	ug/l	52.22	3.0	4500	103	P	
200	**Hg**	3	**8.607**	ug/l	8.61	1.0	45	209	P	
205	**Tl**	3	**51.620**	ug/l	51.62	1.7	4500	209	P	
208	**Pb**	3	**52.330**	ug/l	52.33	1.6	4500	209	P	
238	**U**	3	**51.180**	ug/l	51.18	2.7	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4012178	2.36	5119000	**78.4**	30	-	120	
45	Sc	1	251214	0.74	341400	**73.6**	30	-	120	
45	Sc	2	250709	2.08	273900	**91.5**	30	-	120	
74	Ge	1	213938	1.30	283600	**75.4**	30	-	120	
74	Ge	2	396890	0.45	422600	**93.9**	30	-	120	
74	Ge	3	1539925	1.34	1674000	**92.0**	30	-	120	
103	Rh	2	747033	1.66	814900	**91.7**	30	-	120	
103	Rh	3	1430145	0.63	1535000	**93.2**	30	-	120	
165	Ho	3	3117336	0.41	3236000	**96.3**	30	-	120	
175	Lu	3	3495004	0.56	3584000	**97.5**	30	-	120	
209	Bi	3	7199308	0.44	7619000	**94.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\048SMPL.D\048SMPL.D#
Date Acquired: May 27 2010 05:54 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.006**	ug/l	0.01	82.0	450	6	P	
23	**Na**	2	**4.441**	ug/l	4.44	30.0	450000	45	P	
24	**Mg**	2	**2.775**	ug/l	2.78	15.0	450000	45	P	
27	**Al**	2	**2.373**	ug/l	2.37	19.0	450000	45	P	
31	**P**	2	**0.918**	ug/l	0.92	277.9	450000	45	P	
39	**K**	2	**17.730**	ug/l	17.73	27.5	450000	45	P	
44	**Ca**	2	**3.561**	ug/l	3.56	50.2	450000	45	P	
47	**Ti**	2	**0.182**	ug/l	0.18	62.6	4500	45	P	
51	**V**	2	**-0.057**	ug/l	-0.06	11.5	4500	45	P	
52	**Cr**	2	**-0.011**	ug/l	-0.01	197.3	4500	45	P	
54	**Fe**	2	**4.498**	ug/l	4.50	27.5	450000	74	P	
55	**Mn**	2	**0.070**	ug/l	0.07	18.4	15000	45	P	
59	**Co**	2	**0.016**	ug/l	0.02	23.7	4500	45	P	
60	**Ni**	2	**0.030**	ug/l	0.03	180.6	15000	45	P	
63	**Cu**	2	**0.042**	ug/l	0.04	48.0	15000	45	P	
66	**Zn**	2	**0.057**	ug/l	0.06	82.3	15000	45	P	
75	**As**	2	**-0.028**	ug/l	-0.03	86.5	4500	74	P	
78	**Se**	2	**-0.041**	ug/l	-0.04	1538.5	4500	74	P	
88	**Sr**	3	**0.008**	ug/l	0.01	19.3	4500	74	P	
95	**Mo**	3	**0.000**	ug/l	0.00	7838.4	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.00	62.9	450	103	P	
111	**Cd**	3	**0.006**	ug/l	0.01	122.4	900	103	P	
118	**Sn**	3	**0.034**	ug/l	0.03	47.7	4500	103	P	
121	**Sb**	3	**0.017**	ug/l	0.02	30.6	4500	103	P	
135	**Ba**	3	**0.018**	ug/l	0.02	53.2	4500	103	P	
200	**Hg**	3	**3.846**	ug/l	3.85	2.8	45	209	P	
205	**Tl**	3	**0.318**	ug/l	0.32	6.7	4500	209	P	
208	**Pb**	3	**0.009**	ug/l	0.01	19.4	4500	209	P	
238	**U**	3	**0.005**	ug/l	0.01	54.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4131408	1.41	5119000	**80.7**	30	-	120	
45	Sc	1	252092	1.88	341400	**73.8**	30	-	120	
45	Sc	2	249269	0.95	273900	**91.0**	30	-	120	
74	Ge	1	219004	0.97	283600	**77.2**	30	-	120	
74	Ge	2	401165	1.64	422600	**94.9**	30	-	120	
74	Ge	3	1544299	1.16	1674000	**92.3**	30	-	120	
103	Rh	2	774210	1.02	814900	**95.0**	30	-	120	
103	Rh	3	1451785	1.96	1535000	**94.6**	30	-	120	
165	Ho	3	3099672	0.84	3236000	**95.8**	30	-	120	
175	Lu	3	3479094	0.36	3584000	**97.1**	30	-	120	
209	Bi	3	7390407	1.25	7619000	**97.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\049SMPL.D\049SMPL.D#
Date Acquired: May 27 2010 06:02 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-12-B Vial Number: 2301
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.370**	ug/l	13.70	4.7	450	6	P	
23	**Na**	2	**91.260**	ug/l	912.60	3.1	450000	45	P	
24	**Mg**	2	**30460.000**	ug/l	304,600.00	0.7	450000	45	A	
27	**Al**	2	**26750.000**	ug/l	267,500.00	0.6	450000	45	A	
31	**P**	2	**694.700**	ug/l	6,947.00	4.0	450000	45	P	
39	**K**	2	**2233.000**	ug/l	22,330.00	1.0	450000	45	A	
44	**Ca**	2	**12680.000**	ug/l	126,800.00	1.1	450000	45	P	
47	**Ti**	2	**24.230**	ug/l	242.30	2.0	4500	45	P	
51	**V**	2	**96.810**	ug/l	968.10	0.4	4500	45	P	
52	**Cr**	2	**274.800**	ug/l	2,748.00	0.9	4500	45	P	
54	**Fe**	2	**95360.000**	ug/l	953,600.00	1.4	450000	74	A	
55	**Mn**	2	**1529.000**	ug/l	15,290.00	0.6	15000	45	A	
59	**Co**	2	**75.590**	ug/l	755.90	0.6	4500	45	P	
60	**Ni**	2	**1001.000**	ug/l	10,010.00	0.6	15000	45	P	
63	**Cu**	2	**101.500**	ug/l	1,015.00	1.3	15000	45	P	
66	**Zn**	2	**161.400**	ug/l	1,614.00	1.5	15000	45	P	
75	**As**	2	**22.920**	ug/l	229.20	1.3	4500	74	P	
78	**Se**	2	**1.373**	ug/l	13.73	44.4	4500	74	P	
88	**Sr**	3	**112.700**	ug/l	1,127.00	1.5	4500	74	A	
95	**Mo**	3	**1.838**	ug/l	18.38	5.5	4500	74	P	
107	**Ag**	3	**0.234**	ug/l	2.34	12.2	450	103	P	
111	**Cd**	3	**0.428**	ug/l	4.28	12.9	900	103	P	
118	**Sn**	3	**1.299**	ug/l	12.99	3.3	4500	103	P	
121	**Sb**	3	**1.637**	ug/l	16.37	4.0	4500	103	P	
135	**Ba**	3	**298.500**	ug/l	2,985.00	1.3	4500	103	P	
200	**Hg**	3	**45.690**	ug/l	456.90	1.5	45	209	P	Fail
205	**Tl**	3	**0.329**	ug/l	3.29	3.2	4500	209	P	
208	**Pb**	3	**23.810**	ug/l	238.10	1.7	4500	209	P	
238	**U**	3	**0.286**	ug/l	2.86	1.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3818527	1.31	5119000	**74.6**	30	-	120	
45	Sc	1	270547	1.28	341400	**79.2**	30	-	120	
45	Sc	2	277442	1.08	273900	**101.3**	30	-	120	
74	Ge	1	200158	0.82	283600	**70.6**	30	-	120	
74	Ge	2	388918	1.02	422600	**92.0**	30	-	120	
74	Ge	3	1510703	0.16	1674000	**90.2**	30	-	120	
103	Rh	2	723589	1.19	814900	**88.8**	30	-	120	
103	Rh	3	1384087	1.28	1535000	**90.2**	30	-	120	
165	Ho	3	3127207	0.70	3236000	**96.6**	30	-	120	
175	Lu	3	3496387	0.87	3584000	**97.6**	30	-	120	
209	Bi	3	6971433	0.55	7619000	**91.5**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\050SMPL.D\050SMPL.D#
Date Acquired: May 27 2010 06:09 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-13-B Vial Number: 2302
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.283**	ug/l	12.83	4.1	450	6	P	
23	**Na**	2	**181.500**	ug/l	1,815.00	1.2	450000	45	P	
24	**Mg**	2	**32410.000**	ug/l	324,100.00	3.3	450000	45	A	
27	**Al**	2	**8956.000**	ug/l	89,560.00	2.6	450000	45	A	
31	**P**	2	**517.900**	ug/l	5,179.00	3.2	450000	45	P	
39	**K**	2	**1962.000**	ug/l	19,620.00	1.4	450000	45	P	
44	**Ca**	2	**34860.000**	ug/l	348,600.00	1.3	450000	45	P	
47	**Ti**	2	**31.090**	ug/l	310.90	14.3	4500	45	P	
51	**V**	2	**99.340**	ug/l	993.40	1.4	4500	45	P	
52	**Cr**	2	**146.800**	ug/l	1,468.00	0.1	4500	45	P	
54	**Fe**	2	**92110.000**	ug/l	921,100.00	2.2	450000	74	A	
55	**Mn**	2	**1354.000**	ug/l	13,540.00	1.1	15000	45	A	
59	**Co**	2	**58.470**	ug/l	584.70	0.4	4500	45	P	
60	**Ni**	2	**956.200**	ug/l	9,562.00	0.2	15000	45	P	
63	**Cu**	2	**95.970**	ug/l	959.70	0.7	15000	45	P	
66	**Zn**	2	**169.800**	ug/l	1,698.00	1.5	15000	45	P	
75	**As**	2	**23.500**	ug/l	235.00	3.3	4500	74	P	
78	**Se**	2	**0.878**	ug/l	8.78	58.3	4500	74	P	
88	**Sr**	3	**126.700**	ug/l	1,267.00	2.3	4500	74	A	
95	**Mo**	3	**2.175**	ug/l	21.75	4.7	4500	74	P	
107	**Ag**	3	**0.185**	ug/l	1.85	7.5	450	103	P	
111	**Cd**	3	**0.395**	ug/l	3.95	24.5	900	103	P	
118	**Sn**	3	**1.333**	ug/l	13.33	7.9	4500	103	P	
121	**Sb**	3	**1.677**	ug/l	16.77	6.2	4500	103	P	
135	**Ba**	3	**292.100**	ug/l	2,921.00	2.8	4500	103	P	
200	**Hg**	3	**15.160**	ug/l	151.60	1.2	45	209	P	
205	**Tl**	3	**0.279**	ug/l	2.79	5.1	4500	209	P	
208	**Pb**	3	**21.890**	ug/l	218.90	1.0	4500	209	P	
238	**U**	3	**0.501**	ug/l	5.01	4.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3968399	1.30	5119000	**77.5**	30	-	120	
45	Sc	1	276429	0.93	341400	**81.0**	30	-	120	
45	Sc	2	278768	1.44	273900	**101.8**	30	-	120	
74	Ge	1	206953	1.17	283600	**73.0**	30	-	120	
74	Ge	2	390099	1.61	422600	**92.3**	30	-	120	
74	Ge	3	1523337	1.09	1674000	**91.0**	30	-	120	
103	Rh	2	715960	1.31	814900	**87.9**	30	-	120	
103	Rh	3	1376335	1.72	1535000	**89.7**	30	-	120	
165	Ho	3	3161779	0.76	3236000	**97.7**	30	-	120	
175	Lu	3	3454911	0.99	3584000	**96.4**	30	-	120	
209	Bi	3	7035391	0.89	7619000	**92.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\051SMPL.D\051SMPL.D#
Date Acquired: May 27 2010 06:16 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-14-B Vial Number: 2303
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.937**	ug/l	19.37	8.2	450	6	P	
23	**Na**	2	**146.900**	ug/l	1,469.00	0.6	450000	45	P	
24	**Mg**	2	**22600.000**	ug/l	226,000.00	1.3	450000	45	A	
27	**Al**	2	**19300.000**	ug/l	193,000.00	2.8	450000	45	A	
31	**P**	2	**670.800**	ug/l	6,708.00	1.5	450000	45	P	
39	**K**	2	**2827.000**	ug/l	28,270.00	0.9	450000	45	A	
44	**Ca**	2	**8041.000**	ug/l	80,410.00	1.4	450000	45	P	
47	**Ti**	2	**9.394**	ug/l	93.94	10.9	4500	45	P	
51	**V**	2	**73.490**	ug/l	734.90	0.5	4500	45	P	
52	**Cr**	2	**120.400**	ug/l	1,204.00	0.7	4500	45	P	
54	**Fe**	2	**102300.000**	ug/l	1,023,000.00	0.7	450000	74	A	
55	**Mn**	2	**4955.000**	ug/l	49,550.00	1.5	15000	45	A	
59	**Co**	2	**113.100**	ug/l	1,131.00	0.4	4500	45	P	
60	**Ni**	2	**1329.000**	ug/l	13,290.00	0.9	15000	45	A	
63	**Cu**	2	**107.300**	ug/l	1,073.00	1.6	15000	45	P	
66	**Zn**	2	**193.900**	ug/l	1,939.00	0.7	15000	45	P	
75	**As**	2	**31.790**	ug/l	317.90	1.5	4500	74	P	
78	**Se**	2	**0.637**	ug/l	6.37	107.0	4500	74	P	
88	**Sr**	3	**77.880**	ug/l	778.80	1.4	4500	74	P	
95	**Mo**	3	**1.928**	ug/l	19.28	1.1	4500	74	P	
107	**Ag**	3	**0.295**	ug/l	2.95	4.1	450	103	P	
111	**Cd**	3	**0.539**	ug/l	5.39	5.0	900	103	P	
118	**Sn**	3	**1.519**	ug/l	15.19	1.2	4500	103	P	
121	**Sb**	3	**2.428**	ug/l	24.28	1.9	4500	103	P	
135	**Ba**	3	**860.100**	ug/l	8,601.00	0.5	4500	103	P	
200	**Hg**	3	**15.010**	ug/l	150.10	1.6	45	209	P	
205	**Tl**	3	**0.337**	ug/l	3.37	1.8	4500	209	P	
208	**Pb**	3	**38.880**	ug/l	388.80	0.9	4500	209	P	
238	**U**	3	**0.874**	ug/l	8.74	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3902140	2.59	5119000	**76.2**	30	-	120	
45	Sc	1	264277	1.45	341400	**77.4**	30	-	120	
45	Sc	2	284115	1.42	273900	**103.7**	30	-	120	
74	Ge	1	201452	0.82	283600	**71.0**	30	-	120	
74	Ge	2	410144	1.46	422600	**97.1**	30	-	120	
74	Ge	3	1580599	1.29	1674000	**94.4**	30	-	120	
103	Rh	2	752666	1.48	814900	**92.4**	30	-	120	
103	Rh	3	1436819	0.67	1535000	**93.6**	30	-	120	
165	Ho	3	3214226	1.93	3236000	**99.3**	30	-	120	
175	Lu	3	3546657	1.43	3584000	**99.0**	30	-	120	
209	Bi	3	7184806	0.87	7619000	**94.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\052SMPL.D\052SMPL.D#
Date Acquired: May 27 2010 06:23 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-15-B Vial Number: 2304
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.912**	ug/l	9.12	3.2	450	6	P	
23	**Na**	2	**82.920**	ug/l	829.20	3.7	450000	45	P	
24	**Mg**	2	**164100.000**	ug/l	1,641,000.00	0.9	450000	45	A	
27	**Al**	2	**14090.000**	ug/l	140,900.00	2.0	450000	45	A	
31	**P**	2	**329.000**	ug/l	3,290.00	3.8	450000	45	P	
39	**K**	2	**1067.000**	ug/l	10,670.00	1.8	450000	45	P	
44	**Ca**	2	**5143.000**	ug/l	51,430.00	1.4	450000	45	P	
47	**Ti**	2	**374.600**	ug/l	3,746.00	1.5	4500	45	P	
51	**V**	2	**45.790**	ug/l	457.90	0.7	4500	45	P	
52	**Cr**	2	**532.100**	ug/l	5,321.00	0.4	4500	45	A	
54	**Fe**	2	**99530.000**	ug/l	995,300.00	1.9	450000	74	A	
55	**Mn**	2	**1439.000**	ug/l	14,390.00	0.4	15000	45	A	
59	**Co**	2	**176.000**	ug/l	1,760.00	1.2	4500	45	P	
60	**Ni**	2	**3585.000**	ug/l	35,850.00	0.9	15000	45	A	
63	**Cu**	2	**38.840**	ug/l	388.40	4.1	15000	45	P	
66	**Zn**	2	**117.400**	ug/l	1,174.00	1.6	15000	45	P	
75	**As**	2	**5.683**	ug/l	56.83	3.5	4500	74	P	
78	**Se**	2	**0.173**	ug/l	1.73	229.1	4500	74	P	
88	**Sr**	3	**27.990**	ug/l	279.90	2.0	4500	74	P	
95	**Mo**	3	**0.824**	ug/l	8.24	9.5	4500	74	P	
107	**Ag**	3	**0.084**	ug/l	0.84	9.0	450	103	P	
111	**Cd**	3	**0.226**	ug/l	2.26	12.2	900	103	P	
118	**Sn**	3	**0.796**	ug/l	7.96	3.7	4500	103	P	
121	**Sb**	3	**0.469**	ug/l	4.69	10.0	4500	103	P	
135	**Ba**	3	**120.100**	ug/l	1,201.00	1.0	4500	103	P	
200	**Hg**	3	**311.600**	ug/l	3,116.00	1.5	45	209	P	Fail
205	**Tl**	3	**0.542**	ug/l	5.42	5.1	4500	209	P	
208	**Pb**	3	**8.149**	ug/l	81.49	2.8	4500	209	P	
238	**U**	3	**1.185**	ug/l	11.85	2.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3482034	0.56	5119000	**68.0**	30	-	120	
45	Sc	1	247162	1.09	341400	**72.4**	30	-	120	
45	Sc	2	258984	0.87	273900	**94.6**	30	-	120	
74	Ge	1	187926	0.68	283600	**66.3**	30	-	120	
74	Ge	2	378493	1.54	422600	**89.6**	30	-	120	
74	Ge	3	1472053	2.08	1674000	**87.9**	30	-	120	
103	Rh	2	701806	0.79	814900	**86.1**	30	-	120	
103	Rh	3	1348278	1.19	1535000	**87.8**	30	-	120	
165	Ho	3	3070462	0.45	3236000	**94.9**	30	-	120	
175	Lu	3	3425759	0.26	3584000	**95.6**	30	-	120	
209	Bi	3	6700873	1.00	7619000	**87.9**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\053SMPL.D\053SMPL.D#
Date Acquired: May 27 2010 06:30 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-16-B Vial Number: 2305
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.922**	ug/l	9.22	6.1	450	6	P	
23	**Na**	2	**109.500**	ug/l	1,095.00	4.8	450000	45	P	
24	**Mg**	2	**98430.000**	ug/l	984,300.00	2.3	450000	45	A	
27	**Al**	2	**14870.000**	ug/l	148,700.00	1.6	450000	45	A	
31	**P**	2	**297.400**	ug/l	2,974.00	2.9	450000	45	P	
39	**K**	2	**1085.000**	ug/l	10,850.00	2.9	450000	45	P	
44	**Ca**	2	**6203.000**	ug/l	62,030.00	2.0	450000	45	P	
47	**Ti**	2	**216.300**	ug/l	2,163.00	2.8	4500	45	P	
51	**V**	2	**44.120**	ug/l	441.20	1.3	4500	45	P	
52	**Cr**	2	**627.100**	ug/l	6,271.00	2.5	4500	45	A	
54	**Fe**	2	**127700.000**	ug/l	1,277,000.00	0.6	450000	74	A	
55	**Mn**	2	**1133.000**	ug/l	11,330.00	2.3	15000	45	A	
59	**Co**	2	**185.200**	ug/l	1,852.00	2.4	4500	45	P	
60	**Ni**	2	**3011.000**	ug/l	30,110.00	2.0	15000	45	A	
63	**Cu**	2	**49.360**	ug/l	493.60	2.2	15000	45	P	
66	**Zn**	2	**124.600**	ug/l	1,246.00	2.9	15000	45	P	
75	**As**	2	**6.854**	ug/l	68.54	3.7	4500	74	P	
78	**Se**	2	**1.073**	ug/l	10.73	34.5	4500	74	P	
88	**Sr**	3	**49.700**	ug/l	497.00	0.1	4500	74	P	
95	**Mo**	3	**1.098**	ug/l	10.98	3.8	4500	74	P	
107	**Ag**	3	**0.175**	ug/l	1.75	12.1	450	103	P	
111	**Cd**	3	**0.271**	ug/l	2.71	10.6	900	103	P	
118	**Sn**	3	**1.413**	ug/l	14.13	0.6	4500	103	P	
121	**Sb**	3	**8.686**	ug/l	86.86	1.4	4500	103	P	
135	**Ba**	3	**247.900**	ug/l	2,479.00	1.4	4500	103	P	
200	**Hg**	3	**858.200**	ug/l	8,582.00	1.2	45	209	A	Fail
205	**Tl**	3	**1.084**	ug/l	10.84	0.7	4500	209	P	
208	**Pb**	3	**13.390**	ug/l	133.90	0.9	4500	209	P	
238	**U**	3	**1.563**	ug/l	15.63	0.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3329996	1.69	5119000	**65.1**	30	-	120	
45	Sc	1	245773	2.76	341400	**72.0**	30	-	120	
45	Sc	2	266201	1.29	273900	**97.2**	30	-	120	
74	Ge	1	184222	2.36	283600	**65.0**	30	-	120	
74	Ge	2	383127	0.70	422600	**90.7**	30	-	120	
74	Ge	3	1518201	0.60	1674000	**90.7**	30	-	120	
103	Rh	2	712332	0.73	814900	**87.4**	30	-	120	
103	Rh	3	1374657	1.38	1535000	**89.6**	30	-	120	
165	Ho	3	3150071	0.85	3236000	**97.3**	30	-	120	
175	Lu	3	3504168	0.80	3584000	**97.8**	30	-	120	
209	Bi	3	6943918	0.35	7619000	**91.1**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\054SMPL.D\054SMPL.D#
Date Acquired: May 27 2010 06:37 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-17-A Vial Number: 2306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.146**	ug/l	11.46	3.7	450	6	P	
23	**Na**	2	**129.800**	ug/l	1,298.00	3.7	450000	45	P	
24	**Mg**	2	**68630.000**	ug/l	686,300.00	1.9	450000	45	A	
27	**Al**	2	**48410.000**	ug/l	484,100.00	2.1	450000	45	A	
31	**P**	2	**2117.000**	ug/l	21,170.00	2.0	450000	45	P	
39	**K**	2	**2795.000**	ug/l	27,950.00	1.7	450000	45	A	
44	**Ca**	2	**20840.000**	ug/l	208,400.00	2.9	450000	45	P	
47	**Ti**	2	**2808.000**	ug/l	28,080.00	3.0	4500	45	P	
51	**V**	2	**151.300**	ug/l	1,513.00	1.9	4500	45	P	
52	**Cr**	2	**435.700**	ug/l	4,357.00	2.6	4500	45	A	
54	**Fe**	2	**98510.000**	ug/l	985,100.00	1.8	450000	74	A	
55	**Mn**	2	**2227.000**	ug/l	22,270.00	1.8	15000	45	A	
59	**Co**	2	**63.380**	ug/l	633.80	2.7	4500	45	P	
60	**Ni**	2	**490.600**	ug/l	4,906.00	2.3	15000	45	P	
63	**Cu**	2	**145.200**	ug/l	1,452.00	1.9	15000	45	P	
66	**Zn**	2	**190.200**	ug/l	1,902.00	3.0	15000	45	P	
75	**As**	2	**23.360**	ug/l	233.60	2.6	4500	74	P	
78	**Se**	2	**-0.094**	ug/l	-0.94	607.6	4500	74	P	
88	**Sr**	3	**97.690**	ug/l	976.90	1.4	4500	74	A	
95	**Mo**	3	**2.275**	ug/l	22.75	2.0	4500	74	P	
107	**Ag**	3	**0.336**	ug/l	3.36	4.3	450	103	P	
111	**Cd**	3	**0.400**	ug/l	4.00	19.1	900	103	P	
118	**Sn**	3	**0.979**	ug/l	9.79	1.6	4500	103	P	
121	**Sb**	3	**1.629**	ug/l	16.29	2.4	4500	103	P	
135	**Ba**	3	**664.900**	ug/l	6,649.00	0.9	4500	103	P	
200	**Hg**	3	**27.150**	ug/l	271.50	2.1	45	209	P	
205	**Tl**	3	**0.249**	ug/l	2.49	5.1	4500	209	P	
208	**Pb**	3	**27.090**	ug/l	270.90	1.3	4500	209	P	
238	**U**	3	**0.712**	ug/l	7.12	3.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3542726	0.98	5119000	**69.2**	30	-	120	
45	Sc	1	244189	1.94	341400	**71.5**	30	-	120	
45	Sc	2	269645	1.53	273900	**98.4**	30	-	120	
74	Ge	1	188624	1.41	283600	**66.5**	30	-	120	
74	Ge	2	385395	1.20	422600	**91.2**	30	-	120	
74	Ge	3	1530081	0.90	1674000	**91.4**	30	-	120	
103	Rh	2	717670	1.51	814900	**88.1**	30	-	120	
103	Rh	3	1367175	0.30	1535000	**89.1**	30	-	120	
165	Ho	3	3134362	0.94	3236000	**96.9**	30	-	120	
175	Lu	3	3465404	1.16	3584000	**96.7**	30	-	120	
209	Bi	3	6908855	1.14	7619000	**90.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\055SMPL.D\055SMPL.D#
Date Acquired: May 27 2010 06:44 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**52.500**	ug/l	52.50	2.1	450	6	P	
23	**Na**	2	**4927.000**	ug/l	4,927.00	0.5	450000	45	A	
24	**Mg**	2	**5067.000**	ug/l	5,067.00	0.2	450000	45	A	
27	**Al**	2	**506.400**	ug/l	506.40	1.1	450000	45	P	
31	**P**	2	**5008.000**	ug/l	5,008.00	0.6	450000	45	P	
39	**K**	2	**5176.000**	ug/l	5,176.00	1.8	450000	45	A	
44	**Ca**	2	**5164.000**	ug/l	5,164.00	2.2	450000	45	P	
47	**Ti**	2	**51.960**	ug/l	51.96	1.4	4500	45	P	
51	**V**	2	**51.500**	ug/l	51.50	1.2	4500	45	P	
52	**Cr**	2	**52.410**	ug/l	52.41	1.8	4500	45	P	
54	**Fe**	2	**5135.000**	ug/l	5,135.00	0.8	450000	74	P	
55	**Mn**	2	**53.340**	ug/l	53.34	1.4	15000	45	P	
59	**Co**	2	**52.850**	ug/l	52.85	1.2	4500	45	P	
60	**Ni**	2	**52.430**	ug/l	52.43	1.0	15000	45	P	
63	**Cu**	2	**52.860**	ug/l	52.86	1.2	15000	45	P	
66	**Zn**	2	**52.640**	ug/l	52.64	0.8	15000	45	P	
75	**As**	2	**50.650**	ug/l	50.65	1.0	4500	74	P	
78	**Se**	2	**46.230**	ug/l	46.23	6.4	4500	74	P	
88	**Sr**	3	**52.540**	ug/l	52.54	1.5	4500	74	P	
95	**Mo**	3	**52.720**	ug/l	52.72	2.1	4500	74	P	
107	**Ag**	3	**50.980**	ug/l	50.98	1.7	450	103	P	
111	**Cd**	3	**50.240**	ug/l	50.24	2.1	900	103	P	
118	**Sn**	3	**51.090**	ug/l	51.09	2.3	4500	103	P	
121	**Sb**	3	**50.990**	ug/l	50.99	1.7	4500	103	P	
135	**Ba**	3	**51.260**	ug/l	51.26	1.8	4500	103	P	
200	**Hg**	3	**4.982**	ug/l	4.98	2.0	45	209	P	
205	**Tl**	3	**51.440**	ug/l	51.44	3.3	4500	209	P	
208	**Pb**	3	**52.140**	ug/l	52.14	2.2	4500	209	P	
238	**U**	3	**50.450**	ug/l	50.45	3.4	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4065145	3.72	5119000	**79.4**	30	-	120	
45	Sc	1	234860	1.09	341400	**68.8**	30	-	120	
45	Sc	2	256774	1.09	273900	**93.7**	30	-	120	
74	Ge	1	203767	1.17	283600	**71.9**	30	-	120	
74	Ge	2	416010	0.31	422600	**98.4**	30	-	120	
74	Ge	3	1625018	0.97	1674000	**97.1**	30	-	120	
103	Rh	2	783528	0.83	814900	**96.2**	30	-	120	
103	Rh	3	1516256	0.52	1535000	**98.8**	30	-	120	
165	Ho	3	3220530	0.92	3236000	**99.5**	30	-	120	
175	Lu	3	3592159	1.06	3584000	**100.2**	30	-	120	
209	Bi	3	7518471	1.09	7619000	**98.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\056SMPL.D\056SMPL.D#
Date Acquired: May 27 2010 06:51 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.009**	ug/l	0.01	14.3	450	6	P	
23	**Na**	2	**-1.422**	ug/l	-1.42	61.9	450000	45	P	
24	**Mg**	2	**4.919**	ug/l	4.92	4.5	450000	45	P	
27	**Al**	2	**2.068**	ug/l	2.07	9.8	450000	45	P	
31	**P**	2	**-1.774**	ug/l	-1.77	279.5	450000	45	P	
39	**K**	2	**5.826**	ug/l	5.83	14.0	450000	45	P	
44	**Ca**	2	**1.752**	ug/l	1.75	116.1	450000	45	P	
47	**Ti**	2	**0.122**	ug/l	0.12	32.5	4500	45	P	
51	**V**	2	**-0.115**	ug/l	-0.11	55.4	4500	45	P	
52	**Cr**	2	**0.008**	ug/l	0.01	237.6	4500	45	P	
54	**Fe**	2	**4.945**	ug/l	4.95	17.8	450000	74	P	
55	**Mn**	2	**0.097**	ug/l	0.10	13.6	15000	45	P	
59	**Co**	2	**0.015**	ug/l	0.02	23.4	4500	45	P	
60	**Ni**	2	**0.029**	ug/l	0.03	124.5	15000	45	P	
63	**Cu**	2	**0.053**	ug/l	0.05	28.6	15000	45	P	
66	**Zn**	2	**0.078**	ug/l	0.08	59.3	15000	45	P	
75	**As**	2	**-0.048**	ug/l	-0.05	32.2	4500	74	P	
78	**Se**	2	**-0.384**	ug/l	-0.38	88.8	4500	74	P	
88	**Sr**	3	**0.015**	ug/l	0.02	16.6	4500	74	P	
95	**Mo**	3	**0.003**	ug/l	0.00	263.3	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.00	111.6	450	103	P	
111	**Cd**	3	**0.007**	ug/l	0.01	60.8	900	103	P	
118	**Sn**	3	**0.026**	ug/l	0.03	30.9	4500	103	P	
121	**Sb**	3	**0.011**	ug/l	0.01	69.3	4500	103	P	
135	**Ba**	3	**0.012**	ug/l	0.01	86.6	4500	103	P	
200	**Hg**	3	**2.051**	ug/l	2.05	2.8	45	209	P	
205	**Tl**	3	**0.333**	ug/l	0.33	5.2	4500	209	P	
208	**Pb**	3	**0.012**	ug/l	0.01	16.7	4500	209	P	
238	**U**	3	**0.006**	ug/l	0.01	13.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4094792	2.04	5119000	**80.0**	30	-	120	
45	Sc	1	240183	1.35	341400	**70.4**	30	-	120	
45	Sc	2	261226	0.49	273900	**95.4**	30	-	120	
74	Ge	1	208236	1.82	283600	**73.4**	30	-	120	
74	Ge	2	424959	1.37	422600	**100.6**	30	-	120	
74	Ge	3	1633746	1.38	1674000	**97.6**	30	-	120	
103	Rh	2	813199	1.33	814900	**99.8**	30	-	120	
103	Rh	3	1537751	0.87	1535000	**100.2**	30	-	120	
165	Ho	3	3241874	1.48	3236000	**100.2**	30	-	120	
175	Lu	3	3594589	0.80	3584000	**100.3**	30	-	120	
209	Bi	3	7648634	1.12	7619000	**100.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\057SMPL.D\057SMPL.D#
Date Acquired: May 27 2010 06:58 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64514/21-A Vial Number: 2401
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.005**	ug/l	0.05	87.8	450	6	P	
23	**Na**	2	**-0.164**	ug/l	-1.64	190.6	450000	45	P	
24	**Mg**	2	**1.383**	ug/l	13.83	11.6	450000	45	P	
27	**Al**	2	**0.543**	ug/l	5.43	24.4	450000	45	P	
31	**P**	2	**-6.724**	ug/l	-67.24	14.7	450000	45	P	
39	**K**	2	**6.495**	ug/l	64.95	37.8	450000	45	P	
44	**Ca**	2	**0.274**	ug/l	2.74	481.6	450000	45	P	
47	**Ti**	2	**0.032**	ug/l	0.32	25.7	4500	45	P	
51	**V**	2	**-0.099**	ug/l	-0.99	32.2	4500	45	P	
52	**Cr**	2	**0.006**	ug/l	0.06	294.8	4500	45	P	
54	**Fe**	2	**1.195**	ug/l	11.95	37.1	450000	74	P	
55	**Mn**	2	**0.033**	ug/l	0.33	20.7	15000	45	P	
59	**Co**	2	**0.003**	ug/l	0.03	108.0	4500	45	P	
60	**Ni**	2	**0.039**	ug/l	0.39	11.3	15000	45	P	
63	**Cu**	2	**0.018**	ug/l	0.18	98.9	15000	45	P	
66	**Zn**	2	**-0.042**	ug/l	-0.42	87.8	15000	45	P	
75	**As**	2	**-0.060**	ug/l	-0.60	38.9	4500	74	P	
78	**Se**	2	**-0.601**	ug/l	-6.01	44.8	4500	74	P	
88	**Sr**	3	**0.003**	ug/l	0.03	50.9	4500	74	P	
95	**Mo**	3	**-0.004**	ug/l	-0.04	89.0	4500	74	P	
107	**Ag**	3	**-0.001**	ug/l	-0.01	376.0	450	103	P	
111	**Cd**	3	**0.007**	ug/l	0.07	116.7	900	103	P	
118	**Sn**	3	**0.009**	ug/l	0.09	105.2	4500	103	P	
121	**Sb**	3	**0.006**	ug/l	0.06	10.3	4500	103	P	
135	**Ba**	3	**0.003**	ug/l	0.03	122.1	4500	103	P	
200	**Hg**	3	**1.870**	ug/l	18.70	2.6	45	209	P	
205	**Tl**	3	**0.119**	ug/l	1.19	12.7	4500	209	P	
208	**Pb**	3	**0.002**	ug/l	0.02	69.2	4500	209	P	
238	**U**	3	**0.002**	ug/l	0.02	21.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4110451	1.57	5119000	**80.3**	30	-	120	
45	Sc	1	236341	0.33	341400	**69.2**	30	-	120	
45	Sc	2	257527	1.16	273900	**94.0**	30	-	120	
74	Ge	1	203169	0.38	283600	**71.6**	30	-	120	
74	Ge	2	413204	1.97	422600	**97.8**	30	-	120	
74	Ge	3	1585275	0.93	1674000	**94.7**	30	-	120	
103	Rh	2	793479	0.82	814900	**97.4**	30	-	120	
103	Rh	3	1465874	0.37	1535000	**95.5**	30	-	120	
165	Ho	3	3153516	0.67	3236000	**97.5**	30	-	120	
175	Lu	3	3492045	0.71	3584000	**97.4**	30	-	120	
209	Bi	3	7424189	0.59	7619000	**97.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed

0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\058SMPL.D\058SMPL.D#
Date Acquired: May 27 2010 07:06 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-B SD Vial Number: 2402
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.042**	ug/l	2.11	22.8	450	6	P	
23	**Na**	2	**0.556**	ug/l	27.81	97.4	450000	45	P	
24	**Mg**	2	**4079.000**	ug/l	203,950.00	0.6	450000	45	A	
27	**Al**	2	**763.700**	ug/l	38,185.00	0.9	450000	45	P	
31	**P**	2	**3.194**	ug/l	159.70	144.7	450000	45	P	
39	**K**	2	**56.200**	ug/l	2,810.00	6.8	450000	45	P	
44	**Ca**	2	**71.760**	ug/l	3,588.00	4.1	450000	45	P	
47	**Ti**	2	**12.270**	ug/l	613.50	3.0	4500	45	P	
51	**V**	2	**7.928**	ug/l	396.40	2.6	4500	45	P	
52	**Cr**	2	**159.500**	ug/l	7,975.00	0.8	4500	45	P	
54	**Fe**	2	**16710.000**	ug/l	835,500.00	3.1	450000	74	A	
55	**Mn**	2	**107.400**	ug/l	5,370.00	0.8	15000	45	P	
59	**Co**	2	**37.390**	ug/l	1,869.50	0.4	4500	45	P	
60	**Ni**	2	**721.800**	ug/l	36,090.00	0.2	15000	45	P	
63	**Cu**	2	**2.200**	ug/l	110.00	2.3	15000	45	P	
66	**Zn**	2	**7.226**	ug/l	361.30	6.5	15000	45	P	
75	**As**	2	**0.164**	ug/l	8.22	37.7	4500	74	P	
78	**Se**	2	**0.022**	ug/l	1.10	1192.1	4500	74	P	
88	**Sr**	3	**0.680**	ug/l	34.01	2.5	4500	74	P	
95	**Mo**	3	**0.018**	ug/l	0.90	60.4	4500	74	P	
107	**Ag**	3	**-0.002**	ug/l	-0.10	142.6	450	103	P	
111	**Cd**	3	**0.019**	ug/l	0.95	60.6	900	103	P	
118	**Sn**	3	**0.059**	ug/l	2.95	9.3	4500	103	P	
121	**Sb**	3	**0.041**	ug/l	2.07	10.0	4500	103	P	
135	**Ba**	3	**48.430**	ug/l	2,421.50	3.3	4500	103	P	
200	**Hg**	3	**12.870**	ug/l	643.50	0.6	45	209	P	
205	**Tl**	3	**0.158**	ug/l	7.90	1.8	4500	209	P	
208	**Pb**	3	**0.482**	ug/l	24.11	2.8	4500	209	P	
238	**U**	3	**0.034**	ug/l	1.68	8.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4382010	0.65	5119000	**85.6**	30	-	120	
45	Sc	1	248803	1.30	341400	**72.9**	30	-	120	
45	Sc	2	260562	0.55	273900	**95.1**	30	-	120	
74	Ge	1	211860	1.36	283600	**74.7**	30	-	120	
74	Ge	2	408483	1.77	422600	**96.7**	30	-	120	
74	Ge	3	1608492	2.13	1674000	**96.1**	30	-	120	
103	Rh	2	763885	1.72	814900	**93.7**	30	-	120	
103	Rh	3	1464498	0.61	1535000	**95.4**	30	-	120	
165	Ho	3	3117845	1.25	3236000	**96.3**	30	-	120	
175	Lu	3	3451204	0.09	3584000	**96.3**	30	-	120	
209	Bi	3	7336501	0.68	7619000	**96.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\059SMPL.D\059SMPL.D#
Date Acquired: May 27 2010 07:13 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-B Vial Number: 2403
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.211**	ug/l	2.11	4.0	450	6	P	
23	**Na**	2	**33.680**	ug/l	336.80	1.9	450000	45	P	
24	**Mg**	2	**18490.000**	ug/l	184,900.00	0.8	450000	45	A	
27	**Al**	2	**3480.000**	ug/l	34,800.00	0.4	450000	45	P	
31	**P**	2	**39.530**	ug/l	395.30	4.1	450000	45	P	
39	**K**	2	**230.500**	ug/l	2,305.00	1.1	450000	45	P	
44	**Ca**	2	**315.600**	ug/l	3,156.00	5.5	450000	45	P	
47	**Ti**	2	**57.860**	ug/l	578.60	4.7	4500	45	P	
51	**V**	2	**38.930**	ug/l	389.30	1.8	4500	45	P	
52	**Cr**	2	**730.900**	ug/l	7,309.00	0.7	4500	45	A	
54	**Fe**	2	**78450.000**	ug/l	784,500.00	0.8	450000	74	A	
55	**Mn**	2	**503.400**	ug/l	5,034.00	0.2	15000	45	P	
59	**Co**	2	**172.200**	ug/l	1,722.00	0.4	4500	45	P	
60	**Ni**	2	**3211.000**	ug/l	32,110.00	0.7	15000	45	A	
63	**Cu**	2	**10.170**	ug/l	101.70	1.5	15000	45	P	
66	**Zn**	2	**34.790**	ug/l	347.90	2.1	15000	45	P	
75	**As**	2	**1.174**	ug/l	11.74	4.4	4500	74	P	
78	**Se**	2	**0.059**	ug/l	0.59	627.7	4500	74	P	
88	**Sr**	3	**3.155**	ug/l	31.55	1.6	4500	74	P	
95	**Mo**	3	**0.148**	ug/l	1.48	19.5	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.08	69.0	450	103	P	
111	**Cd**	3	**0.073**	ug/l	0.73	28.7	900	103	P	
118	**Sn**	3	**0.336**	ug/l	3.36	4.4	4500	103	P	
121	**Sb**	3	**0.224**	ug/l	2.24	6.4	4500	103	P	
135	**Ba**	3	**236.800**	ug/l	2,368.00	0.7	4500	103	P	
200	**Hg**	3	**51.540**	ug/l	515.40	0.9	45	209	P	Fail
205	**Tl**	3	**0.398**	ug/l	3.98	3.8	4500	209	P	
208	**Pb**	3	**2.374**	ug/l	23.74	0.4	4500	209	P	
238	**U**	3	**0.159**	ug/l	1.59	4.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3704910	1.55	5119000	**72.4**	30	-	120	
45	Sc	1	246015	1.05	341400	**72.1**	30	-	120	
45	Sc	2	255742	0.61	273900	**93.4**	30	-	120	
74	Ge	1	198652	1.14	283600	**70.0**	30	-	120	
74	Ge	2	390926	1.47	422600	**92.5**	30	-	120	
74	Ge	3	1528704	1.28	1674000	**91.3**	30	-	120	
103	Rh	2	728753	0.75	814900	**89.4**	30	-	120	
103	Rh	3	1389861	2.27	1535000	**90.5**	30	-	120	
165	Ho	3	3094058	0.92	3236000	**95.6**	30	-	120	
175	Lu	3	3442889	0.35	3584000	**96.1**	30	-	120	
209	Bi	3	7036718	1.15	7619000	**92.4**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\060SMPL.D\060SMPL.D#
Date Acquired: May 27 2010 07:20 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-C DU Vial Number: 2404
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.225**	ug/l	2.25	3.8	450	6	P	
23	**Na**	2	**38.730**	ug/l	387.30	1.6	450000	45	P	
24	**Mg**	2	**18890.000**	ug/l	188,900.00	1.5	450000	45	A	
27	**Al**	2	**3546.000**	ug/l	35,460.00	0.6	450000	45	P	
31	**P**	2	**30.300**	ug/l	303.00	13.7	450000	45	P	
39	**K**	2	**237.500**	ug/l	2,375.00	2.6	450000	45	P	
44	**Ca**	2	**317.200**	ug/l	3,172.00	13.7	450000	45	P	
47	**Ti**	2	**57.280**	ug/l	572.80	1.7	4500	45	P	
51	**V**	2	**39.430**	ug/l	394.30	1.5	4500	45	P	
52	**Cr**	2	**740.400**	ug/l	7,404.00	0.2	4500	45	A	
54	**Fe**	2	**77890.000**	ug/l	778,900.00	0.6	450000	74	A	
55	**Mn**	2	**507.000**	ug/l	5,070.00	1.2	15000	45	P	
59	**Co**	2	**175.200**	ug/l	1,752.00	1.0	4500	45	P	
60	**Ni**	2	**3253.000**	ug/l	32,530.00	0.6	15000	45	A	
63	**Cu**	2	**9.980**	ug/l	99.80	3.7	15000	45	P	
66	**Zn**	2	**35.400**	ug/l	354.00	2.2	15000	45	P	
75	**As**	2	**1.155**	ug/l	11.55	7.7	4500	74	P	
78	**Se**	2	**-0.173**	ug/l	-1.73	220.9	4500	74	P	
88	**Sr**	3	**3.279**	ug/l	32.79	1.7	4500	74	P	
95	**Mo**	3	**0.128**	ug/l	1.28	7.4	4500	74	P	
107	**Ag**	3	**0.011**	ug/l	0.11	7.1	450	103	P	
111	**Cd**	3	**0.081**	ug/l	0.81	32.7	900	103	P	
118	**Sn**	3	**0.353**	ug/l	3.53	4.2	4500	103	P	
121	**Sb**	3	**0.223**	ug/l	2.23	15.6	4500	103	P	
135	**Ba**	3	**241.900**	ug/l	2,419.00	0.4	4500	103	P	
200	**Hg**	3	**51.330**	ug/l	513.30	0.4	45	209	P	Fail
205	**Tl**	3	**0.398**	ug/l	3.98	2.6	4500	209	P	
208	**Pb**	3	**2.334**	ug/l	23.34	2.8	4500	209	P	
238	**U**	3	**0.160**	ug/l	1.60	9.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3719100	2.15	5119000	**72.7**	30	-	120	
45	Sc	1	242408	0.35	341400	**71.0**	30	-	120	
45	Sc	2	248218	0.92	273900	**90.6**	30	-	120	
74	Ge	1	195040	1.27	283600	**68.8**	30	-	120	
74	Ge	2	382722	0.60	422600	**90.6**	30	-	120	
74	Ge	3	1493530	1.23	1674000	**89.2**	30	-	120	
103	Rh	2	717094	1.11	814900	**88.0**	30	-	120	
103	Rh	3	1371571	1.11	1535000	**89.4**	30	-	120	
165	Ho	3	3080849	0.63	3236000	**95.2**	30	-	120	
175	Lu	3	3442726	0.56	3584000	**96.1**	30	-	120	
209	Bi	3	7075315	1.30	7619000	**92.9**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\061SMPL.D\061SMPL.D#
Date Acquired: May 27 2010 07:27 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-D MS Vial Number: 2405
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.944**	ug/l	97.20	4.5	450	6	P	
23	**Na**	2	**414.800**	ug/l	20,740.00	1.1	450000	45	P	
24	**Mg**	2	**4032.000**	ug/l	201,600.00	1.8	450000	45	A	
27	**Al**	2	**763.500**	ug/l	38,175.00	1.5	450000	45	P	
31	**P**	2	**381.200**	ug/l	19,060.00	1.7	450000	45	P	
39	**K**	2	**473.200**	ug/l	23,660.00	0.9	450000	45	P	
44	**Ca**	2	**463.500**	ug/l	23,175.00	5.6	450000	45	P	
47	**Ti**	2	**108.000**	ug/l	5,400.00	1.0	4500	45	P	
51	**V**	2	**26.940**	ug/l	1,347.00	2.0	4500	45	P	
52	**Cr**	2	**152.300**	ug/l	7,615.00	5.2	4500	45	P	
54	**Fe**	2	**15140.000**	ug/l	757,000.00	1.1	450000	74	A	
55	**Mn**	2	**114.600**	ug/l	5,730.00	0.7	15000	45	P	
59	**Co**	2	**53.100**	ug/l	2,655.00	1.0	4500	45	P	
60	**Ni**	2	**647.600**	ug/l	32,380.00	1.0	15000	45	P	
63	**Cu**	2	**12.270**	ug/l	613.50	1.2	15000	45	P	
66	**Zn**	2	**27.140**	ug/l	1,357.00	1.6	15000	45	P	
75	**As**	2	**78.640**	ug/l	3,932.00	1.1	4500	74	P	
78	**Se**	2	**75.800**	ug/l	3,790.00	4.3	4500	74	P	
88	**Sr**	3	**0.562**	ug/l	28.08	4.4	4500	74	P	
95	**Mo**	3	**100.400**	ug/l	5,020.00	2.0	4500	74	P	
107	**Ag**	3	**12.260**	ug/l	613.00	3.7	450	103	P	
111	**Cd**	3	**2.074**	ug/l	103.70	7.0	900	103	P	
118	**Sn**	3	**99.960**	ug/l	4,998.00	1.6	4500	103	P	
121	**Sb**	3	**54.450**	ug/l	2,722.50	1.2	4500	103	P	
135	**Ba**	3	**122.600**	ug/l	6,130.00	2.1	4500	103	P	
200	**Hg**	3	**11.740**	ug/l	587.00	0.2	45	209	P	
205	**Tl**	3	**80.220**	ug/l	4,011.00	0.3	4500	209	A	
208	**Pb**	3	**21.220**	ug/l	1,061.00	0.7	4500	209	P	
238	**U**	3	**0.027**	ug/l	1.37	19.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4483238	2.51	5119000	**87.6**	30	-	120	
45	Sc	1	242232	1.08	341400	**71.0**	30	-	120	
45	Sc	2	251941	1.70	273900	**92.0**	30	-	120	
74	Ge	1	207456	0.65	283600	**73.2**	30	-	120	
74	Ge	2	397488	1.46	422600	**94.1**	30	-	120	
74	Ge	3	1578035	0.88	1674000	**94.3**	30	-	120	
103	Rh	2	744636	2.35	814900	**91.4**	30	-	120	
103	Rh	3	1459816	2.37	1535000	**95.1**	30	-	120	
165	Ho	3	3100036	0.48	3236000	**95.8**	30	-	120	
175	Lu	3	3399594	0.96	3584000	**94.9**	30	-	120	
209	Bi	3	7197300	0.24	7619000	**94.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\062SMPL.D\062SMPL.D#
Date Acquired: May 27 2010 07:34 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-E MSD Vial Number: 2406
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.976**	ug/l	98.80	2.3	450	6	P	
23	**Na**	2	**419.500**	ug/l	20,975.00	2.7	450000	45	P	
24	**Mg**	2	**4038.000**	ug/l	201,900.00	1.1	450000	45	A	
27	**Al**	2	**739.200**	ug/l	36,960.00	1.5	450000	45	P	
31	**P**	2	**396.500**	ug/l	19,825.00	5.3	450000	45	P	
39	**K**	2	**475.700**	ug/l	23,785.00	2.9	450000	45	P	
44	**Ca**	2	**454.000**	ug/l	22,700.00	0.9	450000	45	P	
47	**Ti**	2	**110.000**	ug/l	5,500.00	3.5	4500	45	P	
51	**V**	2	**26.430**	ug/l	1,321.50	2.8	4500	45	P	
52	**Cr**	2	**147.500**	ug/l	7,375.00	2.5	4500	45	P	
54	**Fe**	2	**14840.000**	ug/l	742,000.00	1.8	450000	74	A	
55	**Mn**	2	**114.000**	ug/l	5,700.00	1.5	15000	45	P	
59	**Co**	2	**52.980**	ug/l	2,649.00	1.4	4500	45	P	
60	**Ni**	2	**650.200**	ug/l	32,510.00	1.1	15000	45	P	
63	**Cu**	2	**12.310**	ug/l	615.50	2.1	15000	45	P	
66	**Zn**	2	**26.910**	ug/l	1,345.50	3.6	15000	45	P	
75	**As**	2	**77.990**	ug/l	3,899.50	0.7	4500	74	P	
78	**Se**	2	**83.670**	ug/l	4,183.50	7.0	4500	74	P	
88	**Sr**	3	**0.564**	ug/l	28.18	6.4	4500	74	P	
95	**Mo**	3	**99.680**	ug/l	4,984.00	1.8	4500	74	P	
107	**Ag**	3	**12.130**	ug/l	606.50	2.1	450	103	P	
111	**Cd**	3	**2.130**	ug/l	106.50	4.2	900	103	P	
118	**Sn**	3	**100.000**	ug/l	5,000.00	2.7	4500	103	P	
121	**Sb**	3	**55.270**	ug/l	2,763.50	2.2	4500	103	P	
135	**Ba**	3	**123.400**	ug/l	6,170.00	0.8	4500	103	P	
200	**Hg**	3	**11.470**	ug/l	573.50	2.0	45	209	P	
205	**Tl**	3	**79.780**	ug/l	3,989.00	0.9	4500	209	A	
208	**Pb**	3	**21.100**	ug/l	1,055.00	0.6	4500	209	P	
238	**U**	3	**0.027**	ug/l	1.34	11.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4553204	1.74	5119000	**88.9**	30	-	120	
45	Sc	1	241585	1.01	341400	**70.8**	30	-	120	
45	Sc	2	255045	2.03	273900	**93.1**	30	-	120	
74	Ge	1	206768	1.42	283600	**72.9**	30	-	120	
74	Ge	2	404786	0.70	422600	**95.8**	30	-	120	
74	Ge	3	1604519	1.84	1674000	**95.8**	30	-	120	
103	Rh	2	757537	1.80	814900	**93.0**	30	-	120	
103	Rh	3	1461285	2.46	1535000	**95.2**	30	-	120	
165	Ho	3	3144309	0.49	3236000	**97.2**	30	-	120	
175	Lu	3	3471384	0.19	3584000	**96.9**	30	-	120	
209	Bi	3	7244944	0.51	7619000	**95.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\063SMPL.D\063SMPL.D#
Date Acquired: May 27 2010 07:41 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-B PDS Vial Number: 2407
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.006**	ug/l	100.30	4.5	450	6	P	
23	**Na**	2	**398.200**	ug/l	19,910.00	0.6	450000	45	P	
24	**Mg**	2	**3876.000**	ug/l	193,800.00	0.7	450000	45	A	
27	**Al**	2	**718.300**	ug/l	35,915.00	1.0	450000	45	P	
31	**P**	2	**373.700**	ug/l	18,685.00	3.1	450000	45	P	
39	**K**	2	**463.700**	ug/l	23,185.00	1.1	450000	45	P	
44	**Ca**	2	**445.900**	ug/l	22,295.00	2.5	450000	45	P	
47	**Ti**	2	**104.700**	ug/l	5,235.00	2.2	4500	45	P	
51	**V**	2	**26.450**	ug/l	1,322.50	1.6	4500	45	P	
52	**Cr**	2	**144.200**	ug/l	7,210.00	0.9	4500	45	P	
54	**Fe**	2	**14640.000**	ug/l	732,000.00	1.5	450000	74	A	
55	**Mn**	2	**111.100**	ug/l	5,555.00	0.9	15000	45	P	
59	**Co**	2	**51.360**	ug/l	2,568.00	1.1	4500	45	P	
60	**Ni**	2	**635.200**	ug/l	31,760.00	0.5	15000	45	P	
63	**Cu**	2	**11.780**	ug/l	589.00	2.2	15000	45	P	
66	**Zn**	2	**26.440**	ug/l	1,322.00	1.6	15000	45	P	
75	**As**	2	**76.570**	ug/l	3,828.50	0.8	4500	74	P	
78	**Se**	2	**81.780**	ug/l	4,089.00	5.0	4500	74	P	
88	**Sr**	3	**0.554**	ug/l	27.72	4.2	4500	74	P	
95	**Mo**	3	**98.050**	ug/l	4,902.50	2.9	4500	74	P	
107	**Ag**	3	**12.110**	ug/l	605.50	1.5	450	103	P	
111	**Cd**	3	**2.000**	ug/l	100.00	4.1	900	103	P	
118	**Sn**	3	**98.690**	ug/l	4,934.50	1.6	4500	103	P	
121	**Sb**	3	**54.540**	ug/l	2,727.00	0.2	4500	103	P	
135	**Ba**	3	**120.400**	ug/l	6,020.00	2.0	4500	103	P	
200	**Hg**	3	**11.050**	ug/l	552.50	0.4	45	209	P	
205	**Tl**	3	**77.910**	ug/l	3,895.50	1.4	4500	209	A	
208	**Pb**	3	**20.530**	ug/l	1,026.50	2.6	4500	209	P	
238	**U**	3	**0.026**	ug/l	1.28	13.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4435599	1.47	5119000	**86.6**	30	-	120	
45	Sc	1	252049	1.57	341400	**73.8**	30	-	120	
45	Sc	2	261260	0.80	273900	**95.4**	30	-	120	
74	Ge	1	215105	1.24	283600	**75.8**	30	-	120	
74	Ge	2	409620	0.93	422600	**96.9**	30	-	120	
74	Ge	3	1611701	1.19	1674000	**96.3**	30	-	120	
103	Rh	2	767210	0.88	814900	**94.1**	30	-	120	
103	Rh	3	1470478	0.50	1535000	**95.8**	30	-	120	
165	Ho	3	3164186	1.89	3236000	**97.8**	30	-	120	
175	Lu	3	3473885	1.35	3584000	**96.9**	30	-	120	
209	Bi	3	7332680	1.02	7619000	**96.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\064SMPL.D\064SMPL.D#
Date Acquired: May 27 2010 07:49 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64514/22-A Vial Number: 2408
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.141**	ug/l	107.05	13.5	450	6	P	
23	**Na**	2	**414.000**	ug/l	20,700.00	1.7	450000	45	P	
24	**Mg**	2	**414.400**	ug/l	20,720.00	0.8	450000	45	P	
27	**Al**	2	**76.980**	ug/l	3,849.00	1.3	450000	45	P	
31	**P**	2	**374.300**	ug/l	18,715.00	3.4	450000	45	P	
39	**K**	2	**430.100**	ug/l	21,505.00	2.0	450000	45	P	
44	**Ca**	2	**420.100**	ug/l	21,005.00	3.1	450000	45	P	
47	**Ti**	2	**100.300**	ug/l	5,015.00	0.7	4500	45	P	
51	**V**	2	**20.780**	ug/l	1,039.00	0.9	4500	45	P	
52	**Cr**	2	**8.429**	ug/l	421.45	0.3	4500	45	P	
54	**Fe**	2	**463.300**	ug/l	23,165.00	1.7	450000	74	P	
55	**Mn**	2	**20.930**	ug/l	1,046.50	0.9	15000	45	P	
59	**Co**	2	**21.010**	ug/l	1,050.50	0.7	4500	45	P	
60	**Ni**	2	**20.850**	ug/l	1,042.50	2.0	15000	45	P	
63	**Cu**	2	**11.130**	ug/l	556.50	2.9	15000	45	P	
66	**Zn**	2	**21.150**	ug/l	1,057.50	1.7	15000	45	P	
75	**As**	2	**81.690**	ug/l	4,084.50	2.0	4500	74	P	
78	**Se**	2	**83.070**	ug/l	4,153.50	6.6	4500	74	P	
88	**Sr**	3	**0.013**	ug/l	0.64	11.7	4500	74	P	
95	**Mo**	3	**112.900**	ug/l	5,645.00	12.3	4500	74	P	
107	**Ag**	3	**13.390**	ug/l	669.50	13.1	450	103	P	
111	**Cd**	3	**2.093**	ug/l	104.65	16.2	900	103	P	
118	**Sn**	3	**111.900**	ug/l	5,595.00	13.2	4500	103	P	
121	**Sb**	3	**63.700**	ug/l	3,185.00	12.6	4500	103	P	
135	**Ba**	3	**88.480**	ug/l	4,424.00	12.9	4500	103	P	
200	**Hg**	3	**1.948**	ug/l	97.40	10.1	45	209	P	
205	**Tl**	3	**86.010**	ug/l	4,300.50	14.5	4500	209	A	
208	**Pb**	3	**22.510**	ug/l	1,125.50	12.5	4500	209	P	
238	**U**	3	**-0.001**	ug/l	-0.07	35.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3807644	6.30	5119000	**74.4**	30	-	120	
45	Sc	1	222716	1.74	341400	**65.2**	30	-	120	
45	Sc	2	249146	0.20	273900	**91.0**	30	-	120	
74	Ge	1	194844	1.39	283600	**68.7**	30	-	120	
74	Ge	2	401601	1.63	422600	**95.0**	30	-	120	
74	Ge	3	1445272	9.24	1674000	**86.3**	30	-	120	
103	Rh	2	769274	0.62	814900	**94.4**	30	-	120	
103	Rh	3	1353900	9.39	1535000	**88.2**	30	-	120	
165	Ho	3	2926689	12.48	3236000	**90.4**	30	-	120	
175	Lu	3	3236367	9.66	3584000	**90.3**	30	-	120	
209	Bi	3	6874753	9.81	7619000	**90.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\065SMPL.D\065SMPL.D#
Date Acquired: May 27 2010 07:56 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64514/23-A Vial Number: 2409
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.064**	ug/l	103.20	1.4	450	6	P	
23	**Na**	2	**409.600**	ug/l	20,480.00	0.6	450000	45	P	
24	**Mg**	2	**412.600**	ug/l	20,630.00	1.0	450000	45	P	
27	**Al**	2	**78.350**	ug/l	3,917.50	1.8	450000	45	P	
31	**P**	2	**380.800**	ug/l	19,040.00	4.2	450000	45	P	
39	**K**	2	**434.200**	ug/l	21,710.00	0.1	450000	45	P	
44	**Ca**	2	**431.900**	ug/l	21,595.00	5.9	450000	45	P	
47	**Ti**	2	**100.700**	ug/l	5,035.00	1.2	4500	45	P	
51	**V**	2	**20.490**	ug/l	1,024.50	0.5	4500	45	P	
52	**Cr**	2	**8.247**	ug/l	412.35	1.3	4500	45	P	
54	**Fe**	2	**451.100**	ug/l	22,555.00	2.6	450000	74	P	
55	**Mn**	2	**20.700**	ug/l	1,035.00	0.6	15000	45	P	
59	**Co**	2	**21.040**	ug/l	1,052.00	1.7	4500	45	P	
60	**Ni**	2	**21.050**	ug/l	1,052.50	0.6	15000	45	P	
63	**Cu**	2	**10.690**	ug/l	534.50	2.4	15000	45	P	
66	**Zn**	2	**21.150**	ug/l	1,057.50	1.9	15000	45	P	
75	**As**	2	**81.430**	ug/l	4,071.50	2.6	4500	74	P	
78	**Se**	2	**80.700**	ug/l	4,035.00	2.5	4500	74	P	
88	**Sr**	3	**0.006**	ug/l	0.30	73.6	4500	74	P	
95	**Mo**	3	**105.500**	ug/l	5,275.00	2.3	4500	74	P	
107	**Ag**	3	**12.250**	ug/l	612.50	2.0	450	103	P	
111	**Cd**	3	**2.075**	ug/l	103.75	5.7	900	103	P	
118	**Sn**	3	**103.000**	ug/l	5,150.00	0.8	4500	103	P	
121	**Sb**	3	**58.820**	ug/l	2,941.00	1.1	4500	103	P	
135	**Ba**	3	**81.170**	ug/l	4,058.50	1.2	4500	103	P	
200	**Hg**	3	**1.659**	ug/l	82.95	0.9	45	209	P	
205	**Tl**	3	**81.150**	ug/l	4,057.50	0.8	4500	209	A	
208	**Pb**	3	**20.940**	ug/l	1,047.00	0.6	4500	209	P	
238	**U**	3	**-0.001**	ug/l	-0.07	17.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4064432	0.98	5119000	**79.4**	30	-	120	
45	Sc	1	233042	2.09	341400	**68.3**	30	-	120	
45	Sc	2	251031	0.86	273900	**91.7**	30	-	120	
74	Ge	1	201240	1.45	283600	**71.0**	30	-	120	
74	Ge	2	404714	1.00	422600	**95.8**	30	-	120	
74	Ge	3	1565711	1.95	1674000	**93.5**	30	-	120	
103	Rh	2	771380	0.91	814900	**94.7**	30	-	120	
103	Rh	3	1473166	1.12	1535000	**96.0**	30	-	120	
165	Ho	3	3176658	1.23	3236000	**98.2**	30	-	120	
175	Lu	3	3480876	0.36	3584000	**97.1**	30	-	120	
209	Bi	3	7424391	0.61	7619000	**97.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\066SMPL.D\066SMPL.D#
Date Acquired: May 27 2010 08:03 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64514/24-A Vial Number: 2410
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**90.700**	ug/l	1,814.00	0.9	450	6	P	
23	**Na**	2	**299.700**	ug/l	5,994.00	27.4	450000	45	P	
24	**Mg**	2	**2315.000**	ug/l	46,300.00	23.1	450000	45	A	
27	**Al**	2	**5592.000**	ug/l	111,840.00	21.4	450000	45	A	
31	**P**	2	**399.100**	ug/l	7,982.00	20.6	450000	45	P	
39	**K**	2	**2304.000**	ug/l	46,080.00	23.2	450000	45	M	
44	**Ca**	2	**5374.000**	ug/l	107,480.00	21.5	450000	45	P	
47	**Ti**	2	**260.200**	ug/l	5,204.00	23.1	4500	45	P	
51	**V**	2	**54.100**	ug/l	1,082.00	21.1	4500	45	P	
52	**Cr**	2	**68.140**	ug/l	1,362.80	20.1	4500	45	P	
54	**Fe**	2	**9953.000**	ug/l	199,060.00	16.7	450000	74	A	
55	**Mn**	2	**203.300**	ug/l	4,066.00	21.2	15000	45	P	
59	**Co**	2	**67.120**	ug/l	1,342.40	21.7	4500	45	P	
60	**Ni**	2	**100.300**	ug/l	2,006.00	22.6	15000	45	P	
63	**Cu**	2	**38.340**	ug/l	766.80	23.5	15000	45	P	
66	**Zn**	2	**201.300**	ug/l	4,026.00	21.0	15000	45	P	
75	**As**	2	**129.200**	ug/l	2,584.00	16.0	4500	74	P	
78	**Se**	2	**88.370**	ug/l	1,767.40	13.6	4500	74	P	
88	**Sr**	3	**69.560**	ug/l	1,391.20	0.5	4500	74	P	
95	**Mo**	3	**64.790**	ug/l	1,295.80	1.1	4500	74	P	
107	**Ag**	3	**20.550**	ug/l	411.00	1.6	450	103	P	
111	**Cd**	3	**38.020**	ug/l	760.40	2.3	900	103	P	
118	**Sn**	3	**96.630**	ug/l	1,932.60	1.9	4500	103	P	
121	**Sb**	3	**80.970**	ug/l	1,619.40	1.1	4500	103	P	
135	**Ba**	3	**323.200**	ug/l	6,464.00	1.2	4500	103	P	
200	**Hg**	3	**3.428**	ug/l	68.56	2.7	45	209	P	
205	**Tl**	3	**100.000**	ug/l	2,000.00	1.0	4500	209	A	
208	**Pb**	3	**124.500**	ug/l	2,490.00	0.8	4500	209	A	
238	**U**	3	**0.997**	ug/l	19.94	2.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4348824	0.52	5119000	**85.0**	30	-	120	
45	Sc	1	239875	0.99	341400	**70.3**	30	-	120	
45	Sc	2	265998	18.82	273900	**97.1**	30	-	120	
74	Ge	1	204296	1.72	283600	**72.0**	30	-	120	
74	Ge	2	411580	13.92	422600	**97.4**	30	-	120	
74	Ge	3	1587276	0.91	1674000	**94.8**	30	-	120	
103	Rh	2	775520	17.76	814900	**95.2**	30	-	120	
103	Rh	3	1443792	0.82	1535000	**94.1**	30	-	120	
165	Ho	3	3108195	0.46	3236000	**96.1**	30	-	120	
175	Lu	3	3426006	0.83	3584000	**95.6**	30	-	120	
209	Bi	3	7107943	0.07	7619000	**93.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\067SMPL.D\067SMPL.D#
Date Acquired: May 27 2010 08:10 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**53.130**	ug/l	53.13	2.9	450	6	P	
23	**Na**	2	**4987.000**	ug/l	4,987.00	0.7	450000	45	A	
24	**Mg**	2	**5069.000**	ug/l	5,069.00	1.2	450000	45	A	
27	**Al**	2	**504.000**	ug/l	504.00	0.6	450000	45	P	
31	**P**	2	**5142.000**	ug/l	5,142.00	0.4	450000	45	P	
39	**K**	2	**5234.000**	ug/l	5,234.00	1.8	450000	45	A	
44	**Ca**	2	**5175.000**	ug/l	5,175.00	0.3	450000	45	P	
47	**Ti**	2	**52.440**	ug/l	52.44	1.3	4500	45	P	
51	**V**	2	**52.040**	ug/l	52.04	1.9	4500	45	P	
52	**Cr**	2	**52.420**	ug/l	52.42	1.7	4500	45	P	
54	**Fe**	2	**5207.000**	ug/l	5,207.00	1.3	450000	74	P	
55	**Mn**	2	**53.070**	ug/l	53.07	0.6	15000	45	P	
59	**Co**	2	**52.820**	ug/l	52.82	1.0	4500	45	P	
60	**Ni**	2	**53.460**	ug/l	53.46	1.1	15000	45	P	
63	**Cu**	2	**53.110**	ug/l	53.11	1.5	15000	45	P	
66	**Zn**	2	**53.250**	ug/l	53.25	1.3	15000	45	P	
75	**As**	2	**52.710**	ug/l	52.71	0.6	4500	74	P	
78	**Se**	2	**52.530**	ug/l	52.53	1.3	4500	74	P	
88	**Sr**	3	**52.690**	ug/l	52.69	1.2	4500	74	P	
95	**Mo**	3	**52.680**	ug/l	52.68	1.5	4500	74	P	
107	**Ag**	3	**51.700**	ug/l	51.70	1.9	450	103	P	
111	**Cd**	3	**52.510**	ug/l	52.51	2.6	900	103	P	
118	**Sn**	3	**51.780**	ug/l	51.78	3.9	4500	103	P	
121	**Sb**	3	**51.880**	ug/l	51.88	2.4	4500	103	P	
135	**Ba**	3	**52.420**	ug/l	52.42	2.5	4500	103	P	
200	**Hg**	3	**3.235**	ug/l	3.24	1.7	45	209	P	
205	**Tl**	3	**52.560**	ug/l	52.56	1.6	4500	209	P	
208	**Pb**	3	**52.780**	ug/l	52.78	1.2	4500	209	P	
238	**U**	3	**50.830**	ug/l	50.83	1.5	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4146467	1.26	5119000	**81.0**	30	-	120	
45	Sc	1	227462	1.55	341400	**66.6**	30	-	120	
45	Sc	2	251280	0.93	273900	**91.7**	30	-	120	
74	Ge	1	197786	1.13	283600	**69.7**	30	-	120	
74	Ge	2	402081	1.11	422600	**95.1**	30	-	120	
74	Ge	3	1577998	0.48	1674000	**94.3**	30	-	120	
103	Rh	2	741882	0.87	814900	**91.0**	30	-	120	
103	Rh	3	1439497	1.14	1535000	**93.8**	30	-	120	
165	Ho	3	3092552	0.58	3236000	**95.6**	30	-	120	
175	Lu	3	3443638	0.74	3584000	**96.1**	30	-	120	
209	Bi	3	7168894	0.78	7619000	**94.1**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\068SMPL.D\068SMPL.D#
Date Acquired: May 27 2010 08:17 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.011**	ug/l	0.01	2.9	450	6	P	
23	**Na**	2	**-0.966**	ug/l	-0.97	160.7	450000	45	P	
24	**Mg**	2	**1.750**	ug/l	1.75	18.2	450000	45	P	
27	**Al**	2	**0.543**	ug/l	0.54	25.0	450000	45	P	
31	**P**	2	**-8.556**	ug/l	-8.56	38.5	450000	45	P	
39	**K**	2	**15.460**	ug/l	15.46	19.2	450000	45	P	
44	**Ca**	2	**2.268**	ug/l	2.27	111.4	450000	45	P	
47	**Ti**	2	**0.050**	ug/l	0.05	36.3	4500	45	P	
51	**V**	2	**-0.107**	ug/l	-0.11	62.8	4500	45	P	
52	**Cr**	2	**0.000**	ug/l	0.00	3447.3	4500	45	P	
54	**Fe**	2	**1.871**	ug/l	1.87	11.4	450000	74	P	
55	**Mn**	2	**0.053**	ug/l	0.05	28.3	15000	45	P	
59	**Co**	2	**0.019**	ug/l	0.02	17.4	4500	45	P	
60	**Ni**	2	**0.054**	ug/l	0.05	78.3	15000	45	P	
63	**Cu**	2	**0.033**	ug/l	0.03	57.1	15000	45	P	
66	**Zn**	2	**0.114**	ug/l	0.11	86.9	15000	45	P	
75	**As**	2	**-0.030**	ug/l	-0.03	71.0	4500	74	P	
78	**Se**	2	**-0.283**	ug/l	-0.28	84.7	4500	74	P	
88	**Sr**	3	**0.009**	ug/l	0.01	43.7	4500	74	P	
95	**Mo**	3	**0.001**	ug/l	0.00	740.9	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.00	64.5	450	103	P	
111	**Cd**	3	**0.003**	ug/l	0.00	277.8	900	103	P	
118	**Sn**	3	**0.064**	ug/l	0.06	9.7	4500	103	P	
121	**Sb**	3	**0.048**	ug/l	0.05	13.7	4500	103	P	
135	**Ba**	3	**0.027**	ug/l	0.03	25.7	4500	103	P	
200	**Hg**	3	**0.601**	ug/l	0.60	2.5	45	209	P	
205	**Tl**	3	**0.592**	ug/l	0.59	4.0	4500	209	P	
208	**Pb**	3	**0.007**	ug/l	0.01	25.9	4500	209	P	
238	**U**	3	**0.005**	ug/l	0.00	22.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4194188	2.59	5119000	**81.9**	30	-	120	
45	Sc	1	225712	1.77	341400	**66.1**	30	-	120	
45	Sc	2	254414	1.54	273900	**92.9**	30	-	120	
74	Ge	1	194025	2.24	283600	**68.4**	30	-	120	
74	Ge	2	405307	0.73	422600	**95.9**	30	-	120	
74	Ge	3	1560068	0.76	1674000	**93.2**	30	-	120	
103	Rh	2	778074	1.04	814900	**95.5**	30	-	120	
103	Rh	3	1459041	1.08	1535000	**95.1**	30	-	120	
165	Ho	3	3074450	0.46	3236000	**95.0**	30	-	120	
175	Lu	3	3418697	2.00	3584000	**95.4**	30	-	120	
209	Bi	3	7286976	0.21	7619000	**95.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\069SMPL.D\069SMPL.D#
Date Acquired: May 27 2010 08:24 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-19-B Vial Number: 2501
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.007**	ug/l	0.07	8.3	450	6	P	
23	**Na**	2	**27.870**	ug/l	278.70	3.9	450000	45	P	
24	**Mg**	2	**428400.000**	ug/l	4,284,000.00	1.0	450000	45	A	
27	**Al**	2	**2487.000**	ug/l	24,870.00	1.2	450000	45	P	
31	**P**	2	**3.817**	ug/l	38.17	200.3	450000	45	P	
39	**K**	2	**15.890**	ug/l	158.90	19.4	450000	45	P	
44	**Ca**	2	**2983.000**	ug/l	29,830.00	0.8	450000	45	P	
47	**Ti**	2	**11.650**	ug/l	116.50	0.7	4500	45	P	
51	**V**	2	**38.030**	ug/l	380.30	1.7	4500	45	P	
52	**Cr**	2	**2425.000**	ug/l	24,250.00	0.7	4500	45	A	
54	**Fe**	2	**106900.000**	ug/l	1,069,000.00	1.5	450000	74	A	
55	**Mn**	2	**1537.000**	ug/l	15,370.00	1.4	15000	45	A	
59	**Co**	2	**256.700**	ug/l	2,567.00	0.9	4500	45	P	
60	**Ni**	2	**4865.000**	ug/l	48,650.00	0.7	15000	45	A	
63	**Cu**	2	**28.970**	ug/l	289.70	1.7	15000	45	P	
66	**Zn**	2	**43.450**	ug/l	434.50	0.2	15000	45	P	
75	**As**	2	**0.092**	ug/l	0.92	39.8	4500	74	P	
78	**Se**	2	**0.319**	ug/l	3.19	254.2	4500	74	P	
88	**Sr**	3	**1.026**	ug/l	10.26	0.6	4500	74	P	
95	**Mo**	3	**0.033**	ug/l	0.33	44.3	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.03	94.6	450	103	P	
111	**Cd**	3	**0.024**	ug/l	0.24	107.4	900	103	P	
118	**Sn**	3	**0.059**	ug/l	0.59	25.4	4500	103	P	
121	**Sb**	3	**0.035**	ug/l	0.35	15.3	4500	103	P	
135	**Ba**	3	**0.794**	ug/l	7.94	6.9	4500	103	P	
200	**Hg**	3	**0.997**	ug/l	9.97	1.4	45	209	P	
205	**Tl**	3	**0.321**	ug/l	3.21	4.2	4500	209	P	
208	**Pb**	3	**0.037**	ug/l	0.37	11.2	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.01	210.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3565937	1.55	5119000	**69.7**	30	-	120	
45	Sc	1	252852	1.81	341400	**74.1**	30	-	120	
45	Sc	2	256305	0.80	273900	**93.6**	30	-	120	
74	Ge	1	186478	1.18	283600	**65.8**	30	-	120	
74	Ge	2	357333	0.82	422600	**84.6**	30	-	120	
74	Ge	3	1416414	0.96	1674000	**84.6**	30	-	120	
103	Rh	2	649844	1.43	814900	**79.7**	30	-	120	
103	Rh	3	1278222	0.80	1535000	**83.3**	30	-	120	
165	Ho	3	2886247	1.08	3236000	**89.2**	30	-	120	
175	Lu	3	3245935	0.61	3584000	**90.6**	30	-	120	
209	Bi	3	6296255	0.83	7619000	**82.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\070SMPL.D\070SMPL.D#
Date Acquired: May 27 2010 08:32 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-20-B Vial Number: 2502
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.005**	ug/l	0.05	32.5	450	6	P	
23	**Na**	2	**44.130**	ug/l	441.30	4.6	450000	45	P	
24	**Mg**	2	**431400.000**	ug/l	4,314,000.00	1.3	450000	45	A	
27	**Al**	2	**2744.000**	ug/l	27,440.00	0.4	450000	45	P	
31	**P**	2	**-0.197**	ug/l	-1.97	4716.0	450000	45	P	
39	**K**	2	**12.840**	ug/l	128.40	11.9	450000	45	P	
44	**Ca**	2	**5000.000**	ug/l	50,000.00	0.4	450000	45	P	
47	**Ti**	2	**9.456**	ug/l	94.56	1.5	4500	45	P	
51	**V**	2	**33.820**	ug/l	338.20	0.8	4500	45	P	
52	**Cr**	2	**1314.000**	ug/l	13,140.00	1.2	4500	45	A	
54	**Fe**	2	**105400.000**	ug/l	1,054,000.00	0.4	450000	74	A	
55	**Mn**	2	**1615.000**	ug/l	16,150.00	1.0	15000	45	A	
59	**Co**	2	**191.200**	ug/l	1,912.00	0.5	4500	45	P	
60	**Ni**	2	**3828.000**	ug/l	38,280.00	1.3	15000	45	A	
63	**Cu**	2	**9.323**	ug/l	93.23	0.5	15000	45	P	
66	**Zn**	2	**52.000**	ug/l	520.00	1.1	15000	45	P	
75	**As**	2	**-0.039**	ug/l	-0.39	79.9	4500	74	P	
78	**Se**	2	**-0.042**	ug/l	-0.42	1600.2	4500	74	P	
88	**Sr**	3	**1.947**	ug/l	19.47	3.5	4500	74	P	
95	**Mo**	3	**0.066**	ug/l	0.66	33.3	4500	74	P	
107	**Ag**	3	**-0.002**	ug/l	-0.02	128.0	450	103	P	
111	**Cd**	3	**0.009**	ug/l	0.09	327.1	900	103	P	
118	**Sn**	3	**0.048**	ug/l	0.48	18.6	4500	103	P	
121	**Sb**	3	**0.025**	ug/l	0.25	18.7	4500	103	P	
135	**Ba**	3	**0.833**	ug/l	8.33	13.6	4500	103	P	
200	**Hg**	3	**0.847**	ug/l	8.47	2.1	45	209	P	
205	**Tl**	3	**0.203**	ug/l	2.03	8.4	4500	209	P	
208	**Pb**	3	**0.032**	ug/l	0.32	5.5	4500	209	P	
238	**U**	3	**0.000**	ug/l	0.00	169.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3483174	1.72	5119000	**68.0**	30	-	120	
45	Sc	1	236078	2.10	341400	**69.2**	30	-	120	
45	Sc	2	250296	1.46	273900	**91.4**	30	-	120	
74	Ge	1	177787	0.92	283600	**62.7**	30	-	120	
74	Ge	2	356226	0.82	422600	**84.3**	30	-	120	
74	Ge	3	1429118	1.25	1674000	**85.4**	30	-	120	
103	Rh	2	653017	0.94	814900	**80.1**	30	-	120	
103	Rh	3	1295630	1.63	1535000	**84.4**	30	-	120	
165	Ho	3	2902358	0.61	3236000	**89.7**	30	-	120	
175	Lu	3	3251777	0.36	3584000	**90.7**	30	-	120	
209	Bi	3	6237080	0.30	7619000	**81.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\071SMPL.D\071SMPL.D#
Date Acquired: May 27 2010 08:39 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-21-B Vial Number: 2503
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.986**	ug/l	9.86	2.7	450	6	P	
23	**Na**	2	**85.450**	ug/l	854.50	4.0	450000	45	P	
24	**Mg**	2	**30540.000**	ug/l	305,400.00	0.5	450000	45	A	
27	**Al**	2	**25480.000**	ug/l	254,800.00	0.3	450000	45	A	
31	**P**	2	**567.000**	ug/l	5,670.00	1.6	450000	45	P	
39	**K**	2	**2858.000**	ug/l	28,580.00	0.5	450000	45	A	
44	**Ca**	2	**5743.000**	ug/l	57,430.00	1.1	450000	45	P	
47	**Ti**	2	**778.200**	ug/l	7,782.00	0.8	4500	45	P	
51	**V**	2	**80.040**	ug/l	800.40	0.4	4500	45	P	
52	**Cr**	2	**271.200**	ug/l	2,712.00	1.1	4500	45	P	
54	**Fe**	2	**54430.000**	ug/l	544,300.00	1.1	450000	74	A	
55	**Mn**	2	**597.800**	ug/l	5,978.00	1.6	15000	45	A	
59	**Co**	2	**43.590**	ug/l	435.90	1.2	4500	45	P	
60	**Ni**	2	**474.500**	ug/l	4,745.00	0.4	15000	45	P	
63	**Cu**	2	**52.510**	ug/l	525.10	0.1	15000	45	P	
66	**Zn**	2	**96.080**	ug/l	960.80	0.6	15000	45	P	
75	**As**	2	**12.120**	ug/l	121.20	3.5	4500	74	P	
78	**Se**	2	**0.960**	ug/l	9.60	73.7	4500	74	P	
88	**Sr**	3	**53.730**	ug/l	537.30	0.3	4500	74	P	
95	**Mo**	3	**0.863**	ug/l	8.63	4.1	4500	74	P	
107	**Ag**	3	**0.105**	ug/l	1.05	14.4	450	103	P	
111	**Cd**	3	**0.264**	ug/l	2.64	14.4	900	103	P	
118	**Sn**	3	**1.080**	ug/l	10.80	2.1	4500	103	P	
121	**Sb**	3	**0.969**	ug/l	9.69	3.6	4500	103	P	
135	**Ba**	3	**390.000**	ug/l	3,900.00	1.5	4500	103	P	
200	**Hg**	3	**111.600**	ug/l	1,116.00	1.3	45	209	P	Fail
205	**Tl**	3	**0.311**	ug/l	3.11	0.7	4500	209	P	
208	**Pb**	3	**15.000**	ug/l	150.00	0.3	4500	209	P	
238	**U**	3	**0.536**	ug/l	5.36	2.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4095366	0.16	5119000	**80.0**	30	-	120	
45	Sc	1	223965	1.67	341400	**65.6**	30	-	120	
45	Sc	2	275611	0.52	273900	**100.6**	30	-	120	
74	Ge	1	178656	1.78	283600	**63.0**	30	-	120	
74	Ge	2	408311	0.75	422600	**96.6**	30	-	120	
74	Ge	3	1643744	0.33	1674000	**98.2**	30	-	120	
103	Rh	2	755614	0.34	814900	**92.7**	30	-	120	
103	Rh	3	1494573	0.82	1535000	**97.4**	30	-	120	
165	Ho	3	3174587	0.54	3236000	**98.1**	30	-	120	
175	Lu	3	3533715	0.65	3584000	**98.6**	30	-	120	
209	Bi	3	7048091	0.64	7619000	**92.5**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\072SMPL.D\072SMPL.D#
Date Acquired: May 27 2010 08:46 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-1-B Vial Number: 2504
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.079**	ug/l	0.79	8.5	450	6	P	
23	**Na**	2	**11.290**	ug/l	112.90	1.3	450000	45	P	
24	**Mg**	2	**345500.000**	ug/l	3,455,000.00	2.2	450000	45	A	
27	**Al**	2	**4035.000**	ug/l	40,350.00	2.0	450000	45	P	
31	**P**	2	**254.100**	ug/l	2,541.00	5.1	450000	45	P	
39	**K**	2	**443.700**	ug/l	4,437.00	1.8	450000	45	P	
44	**Ca**	2	**961.700**	ug/l	9,617.00	2.8	450000	45	P	
47	**Ti**	2	**50.820**	ug/l	508.20	4.2	4500	45	P	
51	**V**	2	**22.090**	ug/l	220.90	0.7	4500	45	P	
52	**Cr**	2	**681.400**	ug/l	6,814.00	1.3	4500	45	A	
54	**Fe**	2	**81610.000**	ug/l	816,100.00	0.6	450000	74	A	
55	**Mn**	2	**1333.000**	ug/l	13,330.00	1.2	15000	45	A	
59	**Co**	2	**186.800**	ug/l	1,868.00	1.1	4500	45	P	
60	**Ni**	2	**3491.000**	ug/l	34,910.00	1.6	15000	45	A	
63	**Cu**	2	**8.258**	ug/l	82.58	1.5	15000	45	P	
66	**Zn**	2	**47.950**	ug/l	479.50	2.7	15000	45	P	
75	**As**	2	**1.215**	ug/l	12.15	6.6	4500	74	P	
78	**Se**	2	**0.269**	ug/l	2.69	189.2	4500	74	P	
88	**Sr**	3	**7.162**	ug/l	71.62	1.6	4500	74	P	
95	**Mo**	3	**0.463**	ug/l	4.63	18.7	4500	74	P	
107	**Ag**	3	**0.013**	ug/l	0.13	34.8	450	103	P	
111	**Cd**	3	**0.034**	ug/l	0.34	32.8	900	103	P	
118	**Sn**	3	**0.148**	ug/l	1.48	10.7	4500	103	P	
121	**Sb**	3	**0.150**	ug/l	1.50	13.3	4500	103	P	
135	**Ba**	3	**81.400**	ug/l	814.00	1.5	4500	103	P	
200	**Hg**	3	**10.220**	ug/l	102.20	0.2	45	209	P	
205	**Tl**	3	**0.161**	ug/l	1.61	5.5	4500	209	P	
208	**Pb**	3	**6.571**	ug/l	65.71	0.2	4500	209	P	
238	**U**	3	**0.034**	ug/l	0.34	6.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3788739	1.45	5119000	**74.0**	30	-	120	
45	Sc	1	220358	0.87	341400	**64.5**	30	-	120	
45	Sc	2	256167	0.77	273900	**93.5**	30	-	120	
74	Ge	1	169315	0.75	283600	**59.7**	30	-	120	
74	Ge	2	372593	0.57	422600	**88.2**	30	-	120	
74	Ge	3	1511107	0.40	1674000	**90.3**	30	-	120	
103	Rh	2	680588	0.19	814900	**83.5**	30	-	120	
103	Rh	3	1335760	0.54	1535000	**87.0**	30	-	120	
165	Ho	3	2982637	0.35	3236000	**92.2**	30	-	120	
175	Lu	3	3319960	0.74	3584000	**92.6**	30	-	120	
209	Bi	3	6397661	0.38	7619000	**84.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\073SMPL.D\073SMPL.D#
Date Acquired: May 27 2010 08:53 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-2-B Vial Number: 2505
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.914**	ug/l	9.14	2.3	450	6	P	
23	**Na**	2	**267.100**	ug/l	2,671.00	10.6	450000	45	P	
24	**Mg**	2	**25570.000**	ug/l	255,700.00	1.9	450000	45	A	
27	**Al**	2	**23630.000**	ug/l	236,300.00	2.4	450000	45	A	
31	**P**	2	**2037.000**	ug/l	20,370.00	0.9	450000	45	P	
39	**K**	2	**5118.000**	ug/l	51,180.00	0.9	450000	45	A	
44	**Ca**	2	**18770.000**	ug/l	187,700.00	1.1	450000	45	P	
47	**Ti**	2	**1584.000**	ug/l	15,840.00	1.1	4500	45	P	
51	**V**	2	**258.300**	ug/l	2,583.00	2.0	4500	45	P	
52	**Cr**	2	**177.100**	ug/l	1,771.00	2.0	4500	45	P	
54	**Fe**	2	**104600.000**	ug/l	1,046,000.00	1.6	450000	74	A	
55	**Mn**	2	**13220.000**	ug/l	132,200.00	1.1	15000	45	A	
59	**Co**	2	**53.780**	ug/l	537.80	2.1	4500	45	P	
60	**Ni**	2	**575.400**	ug/l	5,754.00	1.6	15000	45	P	
63	**Cu**	2	**316.400**	ug/l	3,164.00	1.1	15000	45	P	
66	**Zn**	2	**364.000**	ug/l	3,640.00	1.6	15000	45	P	
75	**As**	2	**28.940**	ug/l	289.40	1.6	4500	74	P	
78	**Se**	2	**1.948**	ug/l	19.48	16.1	4500	74	P	
88	**Sr**	3	**123.100**	ug/l	1,231.00	3.0	4500	74	A	
95	**Mo**	3	**3.251**	ug/l	32.51	3.6	4500	74	P	
107	**Ag**	3	**0.325**	ug/l	3.25	7.7	450	103	P	
111	**Cd**	3	**0.653**	ug/l	6.53	6.3	900	103	P	
118	**Sn**	3	**1.241**	ug/l	12.41	1.5	4500	103	P	
121	**Sb**	3	**1.908**	ug/l	19.08	0.9	4500	103	P	
135	**Ba**	3	**3193.000**	ug/l	31,930.00	0.9	4500	103	A	
200	**Hg**	3	**58.070**	ug/l	580.70	1.1	45	209	P	Fail
205	**Tl**	3	**0.333**	ug/l	3.33	2.7	4500	209	P	
208	**Pb**	3	**69.010**	ug/l	690.10	0.6	4500	209	P	
238	**U**	3	**0.832**	ug/l	8.32	1.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4250922	1.68	5119000	**83.0**	30	-	120	
45	Sc	1	224105	1.12	341400	**65.6**	30	-	120	
45	Sc	2	281465	2.27	273900	**102.8**	30	-	120	
74	Ge	1	175218	1.70	283600	**61.8**	30	-	120	
74	Ge	2	412156	1.58	422600	**97.5**	30	-	120	
74	Ge	3	1665759	1.73	1674000	**99.5**	30	-	120	
103	Rh	2	757098	2.07	814900	**92.9**	30	-	120	
103	Rh	3	1502519	0.64	1535000	**97.9**	30	-	120	
165	Ho	3	3224730	0.57	3236000	**99.7**	30	-	120	
175	Lu	3	3576830	1.06	3584000	**99.8**	30	-	120	
209	Bi	3	7157057	1.40	7619000	**93.9**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\074SMPL.D\074SMPL.D#
Date Acquired: May 27 2010 09:00 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-3-B Vial Number: 2506
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.114**	ug/l	11.14	5.0	450	6	P	
23	**Na**	2	**67.820**	ug/l	678.20	3.2	450000	45	P	
24	**Mg**	2	**25830.000**	ug/l	258,300.00	1.6	450000	45	A	
27	**Al**	2	**18880.000**	ug/l	188,800.00	1.3	450000	45	A	
31	**P**	2	**1043.000**	ug/l	10,430.00	0.6	450000	45	P	
39	**K**	2	**2701.000**	ug/l	27,010.00	2.5	450000	45	A	
44	**Ca**	2	**5104.000**	ug/l	51,040.00	1.6	450000	45	P	
47	**Ti**	2	**535.600**	ug/l	5,356.00	2.3	4500	45	P	
51	**V**	2	**103.800**	ug/l	1,038.00	0.8	4500	45	P	
52	**Cr**	2	**267.700**	ug/l	2,677.00	0.7	4500	45	P	
54	**Fe**	2	**90630.000**	ug/l	906,300.00	1.5	450000	74	A	
55	**Mn**	2	**2600.000**	ug/l	26,000.00	0.9	15000	45	A	
59	**Co**	2	**91.270**	ug/l	912.70	0.7	4500	45	P	
60	**Ni**	2	**1327.000**	ug/l	13,270.00	0.9	15000	45	A	
63	**Cu**	2	**104.300**	ug/l	1,043.00	1.0	15000	45	P	
66	**Zn**	2	**184.800**	ug/l	1,848.00	1.0	15000	45	P	
75	**As**	2	**18.320**	ug/l	183.20	0.8	4500	74	P	
78	**Se**	2	**1.453**	ug/l	14.53	74.0	4500	74	P	
88	**Sr**	3	**39.020**	ug/l	390.20	2.2	4500	74	P	
95	**Mo**	3	**1.727**	ug/l	17.27	4.5	4500	74	P	
107	**Ag**	3	**0.156**	ug/l	1.56	14.0	450	103	P	
111	**Cd**	3	**0.419**	ug/l	4.19	7.5	900	103	P	
118	**Sn**	3	**2.557**	ug/l	25.57	1.5	4500	103	P	
121	**Sb**	3	**2.421**	ug/l	24.21	1.8	4500	103	P	
135	**Ba**	3	**588.000**	ug/l	5,880.00	1.9	4500	103	P	
200	**Hg**	3	**113.300**	ug/l	1,133.00	0.4	45	209	P	Fail
205	**Tl**	3	**0.255**	ug/l	2.55	8.2	4500	209	P	
208	**Pb**	3	**54.710**	ug/l	547.10	0.3	4500	209	P	
238	**U**	3	**0.621**	ug/l	6.21	0.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4095650	1.60	5119000	**80.0**	30	-	120	
45	Sc	1	225348	1.13	341400	**66.0**	30	-	120	
45	Sc	2	279800	1.29	273900	**102.2**	30	-	120	
74	Ge	1	176203	1.47	283600	**62.1**	30	-	120	
74	Ge	2	404874	0.98	422600	**95.8**	30	-	120	
74	Ge	3	1605595	2.37	1674000	**95.9**	30	-	120	
103	Rh	2	751574	1.64	814900	**92.2**	30	-	120	
103	Rh	3	1457500	1.26	1535000	**95.0**	30	-	120	
165	Ho	3	3164280	0.51	3236000	**97.8**	30	-	120	
175	Lu	3	3521531	0.89	3584000	**98.3**	30	-	120	
209	Bi	3	7017541	0.33	7619000	**92.1**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\075SMPL.D\075SMPL.D#
Date Acquired: May 27 2010 09:07 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-4-B Vial Number: 2507
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.138**	ug/l	11.38	3.2	450	6	P	
23	**Na**	2	**82.090**	ug/l	820.90	5.0	450000	45	P	
24	**Mg**	2	**14470.000**	ug/l	144,700.00	1.6	450000	45	A	
27	**Al**	2	**26590.000**	ug/l	265,900.00	1.8	450000	45	A	
31	**P**	2	**848.900**	ug/l	8,489.00	1.4	450000	45	P	
39	**K**	2	**3653.000**	ug/l	36,530.00	1.0	450000	45	A	
44	**Ca**	2	**5958.000**	ug/l	59,580.00	1.3	450000	45	P	
47	**Ti**	2	**1847.000**	ug/l	18,470.00	1.0	4500	45	P	
51	**V**	2	**80.580**	ug/l	805.80	1.6	4500	45	P	
52	**Cr**	2	**92.310**	ug/l	923.10	1.2	4500	45	P	
54	**Fe**	2	**57090.000**	ug/l	570,900.00	1.0	450000	74	A	
55	**Mn**	2	**884.800**	ug/l	8,848.00	1.6	15000	45	A	
59	**Co**	2	**25.450**	ug/l	254.50	1.4	4500	45	P	
60	**Ni**	2	**126.700**	ug/l	1,267.00	0.6	15000	45	P	
63	**Cu**	2	**55.310**	ug/l	553.10	1.7	15000	45	P	
66	**Zn**	2	**125.000**	ug/l	1,250.00	0.7	15000	45	P	
75	**As**	2	**15.070**	ug/l	150.70	2.3	4500	74	P	
78	**Se**	2	**0.103**	ug/l	1.03	469.5	4500	74	P	
88	**Sr**	3	**33.920**	ug/l	339.20	1.0	4500	74	P	
95	**Mo**	3	**1.014**	ug/l	10.14	4.0	4500	74	P	
107	**Ag**	3	**0.072**	ug/l	0.72	8.7	450	103	P	
111	**Cd**	3	**0.371**	ug/l	3.71	9.1	900	103	P	
118	**Sn**	3	**1.094**	ug/l	10.94	6.7	4500	103	P	
121	**Sb**	3	**1.070**	ug/l	10.70	5.0	4500	103	P	
135	**Ba**	3	**387.100**	ug/l	3,871.00	0.8	4500	103	P	
200	**Hg**	3	**13.540**	ug/l	135.40	0.6	45	209	P	
205	**Tl**	3	**0.204**	ug/l	2.04	8.3	4500	209	P	
208	**Pb**	3	**20.360**	ug/l	203.60	1.6	4500	209	P	
238	**U**	3	**1.032**	ug/l	10.32	1.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4327316	1.15	5119000	**84.5**	30	-	120	
45	Sc	1	215065	2.05	341400	**63.0**	30	-	120	
45	Sc	2	272883	0.63	273900	**99.6**	30	-	120	
74	Ge	1	169761	1.39	283600	**59.9**	30	-	120	
74	Ge	2	407306	0.75	422600	**96.4**	30	-	120	
74	Ge	3	1609662	0.68	1674000	**96.2**	30	-	120	
103	Rh	2	756408	1.16	814900	**92.8**	30	-	120	
103	Rh	3	1475918	0.40	1535000	**96.2**	30	-	120	
165	Ho	3	3183463	0.68	3236000	**98.4**	30	-	120	
175	Lu	3	3507569	0.32	3584000	**97.9**	30	-	120	
209	Bi	3	7062355	0.52	7619000	**92.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\076SMPL.D\076SMPL.D#
Date Acquired: May 27 2010 09:14 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-5-B Vial Number: 2508
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.644**	ug/l	6.44	2.6	450	6	P	
23	**Na**	2	**134.100**	ug/l	1,341.00	4.2	450000	45	P	
24	**Mg**	2	**210500.000**	ug/l	2,105,000.00	2.1	450000	45	A	
27	**Al**	2	**20510.000**	ug/l	205,100.00	0.9	450000	45	A	
31	**P**	2	**726.000**	ug/l	7,260.00	2.4	450000	45	P	
39	**K**	2	**2164.000**	ug/l	21,640.00	1.7	450000	45	A	
44	**Ca**	2	**8573.000**	ug/l	85,730.00	0.5	450000	45	P	
47	**Ti**	2	**221.500**	ug/l	2,215.00	0.8	4500	45	P	
51	**V**	2	**70.830**	ug/l	708.30	0.6	4500	45	P	
52	**Cr**	2	**562.900**	ug/l	5,629.00	0.7	4500	45	A	
54	**Fe**	2	**117100.000**	ug/l	1,171,000.00	1.3	450000	74	A	
55	**Mn**	2	**1550.000**	ug/l	15,500.00	1.4	15000	45	A	
59	**Co**	2	**148.300**	ug/l	1,483.00	0.4	4500	45	P	
60	**Ni**	2	**2709.000**	ug/l	27,090.00	1.7	15000	45	A	
63	**Cu**	2	**51.810**	ug/l	518.10	1.1	15000	45	P	
66	**Zn**	2	**112.700**	ug/l	1,127.00	0.4	15000	45	P	
75	**As**	2	**12.050**	ug/l	120.50	1.1	4500	74	P	
78	**Se**	2	**0.335**	ug/l	3.35	45.7	4500	74	P	
88	**Sr**	3	**38.080**	ug/l	380.80	0.6	4500	74	P	
95	**Mo**	3	**1.119**	ug/l	11.19	8.8	4500	74	P	
107	**Ag**	3	**0.082**	ug/l	0.82	6.8	450	103	P	
111	**Cd**	3	**0.308**	ug/l	3.08	1.5	900	103	P	
118	**Sn**	3	**1.607**	ug/l	16.07	2.2	4500	103	P	
121	**Sb**	3	**1.042**	ug/l	10.42	1.5	4500	103	P	
135	**Ba**	3	**402.800**	ug/l	4,028.00	1.1	4500	103	P	
200	**Hg**	3	**1964.000**	ug/l	19,640.00	1.8	45	209	A	Fail
205	**Tl**	3	**0.249**	ug/l	2.49	6.1	4500	209	P	
208	**Pb**	3	**31.180**	ug/l	311.80	1.1	4500	209	P	
238	**U**	3	**0.297**	ug/l	2.97	4.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3838851	0.54	5119000	**75.0**	30	-	120	
45	Sc	1	209690	1.27	341400	**61.4**	30	-	120	
45	Sc	2	263282	1.00	273900	**96.1**	30	-	120	
74	Ge	1	160623	1.73	283600	**56.6**	30	-	120	
74	Ge	2	380163	1.12	422600	**90.0**	30	-	120	
74	Ge	3	1490626	0.37	1674000	**89.0**	30	-	120	
103	Rh	2	691570	0.68	814900	**84.9**	30	-	120	
103	Rh	3	1337016	0.57	1535000	**87.1**	30	-	120	
165	Ho	3	2993741	1.15	3236000	**92.5**	30	-	120	
175	Lu	3	3325598	0.50	3584000	**92.8**	30	-	120	
209	Bi	3	6444764	0.98	7619000	**84.6**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\077SMPL.D\077SMPL.D#
Date Acquired: May 27 2010 09:21 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-6-B Vial Number: 2509
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.899**	ug/l	8.99	1.7	450	6	P	
23	**Na**	2	**44.490**	ug/l	444.90	1.8	450000	45	P	
24	**Mg**	2	**239800.000**	ug/l	2,398,000.00	0.7	450000	45	A	
27	**Al**	2	**29530.000**	ug/l	295,300.00	1.0	450000	45	A	
31	**P**	2	**324.500**	ug/l	3,245.00	6.9	450000	45	P	
39	**K**	2	**1138.000**	ug/l	11,380.00	1.1	450000	45	P	
44	**Ca**	2	**2976.000**	ug/l	29,760.00	1.2	450000	45	P	
47	**Ti**	2	**143.500**	ug/l	1,435.00	5.7	4500	45	P	
51	**V**	2	**89.440**	ug/l	894.40	0.6	4500	45	P	
52	**Cr**	2	**1233.000**	ug/l	12,330.00	1.3	4500	45	A	
54	**Fe**	2	**171800.000**	ug/l	1,718,000.00	1.5	450000	74	A	
55	**Mn**	2	**1654.000**	ug/l	16,540.00	0.2	15000	45	A	
59	**Co**	2	**285.300**	ug/l	2,853.00	0.8	4500	45	P	
60	**Ni**	2	**5020.000**	ug/l	50,200.00	0.4	15000	45	A	
63	**Cu**	2	**36.280**	ug/l	362.80	1.3	15000	45	P	
66	**Zn**	2	**110.700**	ug/l	1,107.00	0.8	15000	45	P	
75	**As**	2	**9.962**	ug/l	99.62	1.2	4500	74	P	
78	**Se**	2	**0.716**	ug/l	7.16	115.4	4500	74	P	
88	**Sr**	3	**32.080**	ug/l	320.80	0.2	4500	74	P	
95	**Mo**	3	**0.338**	ug/l	3.38	6.2	4500	74	P	
107	**Ag**	3	**0.102**	ug/l	1.02	2.9	450	103	P	
111	**Cd**	3	**0.272**	ug/l	2.72	6.5	900	103	P	
118	**Sn**	3	**0.841**	ug/l	8.41	2.9	4500	103	P	
121	**Sb**	3	**0.503**	ug/l	5.03	6.3	4500	103	P	
135	**Ba**	3	**307.300**	ug/l	3,073.00	1.1	4500	103	P	
200	**Hg**	3	**146.600**	ug/l	1,466.00	0.5	45	209	P	Fail
205	**Tl**	3	**0.217**	ug/l	2.17	5.1	4500	209	P	
208	**Pb**	3	**15.000**	ug/l	150.00	0.0	4500	209	P	
238	**U**	3	**0.395**	ug/l	3.95	3.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3577140	1.74	5119000	**69.9**	30	-	120	
45	Sc	1	215106	0.39	341400	**63.0**	30	-	120	
45	Sc	2	266751	0.29	273900	**97.4**	30	-	120	
74	Ge	1	153329	1.02	283600	**54.1**	30	-	120	
74	Ge	2	366646	1.19	422600	**86.8**	30	-	120	
74	Ge	3	1510257	0.59	1674000	**90.2**	30	-	120	
103	Rh	2	676929	1.11	814900	**83.1**	30	-	120	
103	Rh	3	1332144	2.38	1535000	**86.8**	30	-	120	
165	Ho	3	3022583	0.23	3236000	**93.4**	30	-	120	
175	Lu	3	3380510	0.82	3584000	**94.3**	30	-	120	
209	Bi	3	6479245	1.24	7619000	**85.0**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\078SMPL.D\078SMPL.D#
Date Acquired: May 27 2010 09:28 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-7-B Vial Number: 2510
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.155**	ug/l	11.55	4.6	450	6	P	
23	**Na**	2	**75.120**	ug/l	751.20	3.2	450000	45	P	
24	**Mg**	2	**173900.000**	ug/l	1,739,000.00	1.4	450000	45	A	
27	**Al**	2	**29010.000**	ug/l	290,100.00	1.5	450000	45	A	
31	**P**	2	**663.000**	ug/l	6,630.00	1.6	450000	45	P	
39	**K**	2	**2205.000**	ug/l	22,050.00	1.2	450000	45	P	
44	**Ca**	2	**2925.000**	ug/l	29,250.00	0.8	450000	45	P	
47	**Ti**	2	**106.700**	ug/l	1,067.00	5.0	4500	45	P	
51	**V**	2	**93.340**	ug/l	933.40	1.2	4500	45	P	
52	**Cr**	2	**654.700**	ug/l	6,547.00	1.6	4500	45	A	
54	**Fe**	2	**112700.000**	ug/l	1,127,000.00	1.6	450000	74	A	
55	**Mn**	2	**1973.000**	ug/l	19,730.00	0.7	15000	45	A	
59	**Co**	2	**154.300**	ug/l	1,543.00	1.1	4500	45	P	
60	**Ni**	2	**2596.000**	ug/l	25,960.00	0.7	15000	45	A	
63	**Cu**	2	**73.270**	ug/l	732.70	0.6	15000	45	P	
66	**Zn**	2	**164.500**	ug/l	1,645.00	1.9	15000	45	P	
75	**As**	2	**14.430**	ug/l	144.30	4.0	4500	74	P	
78	**Se**	2	**1.205**	ug/l	12.05	75.9	4500	74	P	
88	**Sr**	3	**19.790**	ug/l	197.90	1.0	4500	74	P	
95	**Mo**	3	**0.971**	ug/l	9.71	9.6	4500	74	P	
107	**Ag**	3	**0.131**	ug/l	1.31	3.5	450	103	P	
111	**Cd**	3	**0.328**	ug/l	3.28	8.5	900	103	P	
118	**Sn**	3	**1.017**	ug/l	10.17	8.8	4500	103	P	
121	**Sb**	3	**1.082**	ug/l	10.82	2.5	4500	103	P	
135	**Ba**	3	**573.100**	ug/l	5,731.00	1.2	4500	103	P	
200	**Hg**	3	**111.800**	ug/l	1,118.00	1.6	45	209	P	Fail
205	**Tl**	3	**0.225**	ug/l	2.25	8.9	4500	209	P	
208	**Pb**	3	**46.970**	ug/l	469.70	1.3	4500	209	P	
238	**U**	3	**0.358**	ug/l	3.58	4.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3667494	0.61	5119000	**71.6**	30	-	120	
45	Sc	1	197045	0.86	341400	**57.7**	30	-	120	
45	Sc	2	263694	1.40	273900	**96.3**	30	-	120	
74	Ge	1	147769	0.75	283600	**52.1**	30	-	120	
74	Ge	2	375097	1.00	422600	**88.8**	30	-	120	
74	Ge	3	1516180	1.64	1674000	**90.6**	30	-	120	
103	Rh	2	689196	1.08	814900	**84.6**	30	-	120	
103	Rh	3	1356274	1.13	1535000	**88.4**	30	-	120	
165	Ho	3	3047825	0.68	3236000	**94.2**	30	-	120	
175	Lu	3	3358047	1.39	3584000	**93.7**	30	-	120	
209	Bi	3	6506353	0.82	7619000	**85.4**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\079SMPL.D\079SMPL.D#
Date Acquired: May 27 2010 09:35 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**53.040**	ug/l	53.04	1.2	450	6	P	
23	**Na**	2	**5002.000**	ug/l	5,002.00	2.4	450000	45	A	
24	**Mg**	2	**5137.000**	ug/l	5,137.00	2.2	450000	45	A	
27	**Al**	2	**513.200**	ug/l	513.20	1.6	450000	45	P	
31	**P**	2	**5031.000**	ug/l	5,031.00	2.4	450000	45	P	
39	**K**	2	**5356.000**	ug/l	5,356.00	1.2	450000	45	A	
44	**Ca**	2	**5214.000**	ug/l	5,214.00	1.7	450000	45	P	
47	**Ti**	2	**52.810**	ug/l	52.81	2.4	4500	45	P	
51	**V**	2	**52.480**	ug/l	52.48	2.8	4500	45	P	
52	**Cr**	2	**53.480**	ug/l	53.48	2.4	4500	45	P	
54	**Fe**	2	**5205.000**	ug/l	5,205.00	1.2	450000	74	P	
55	**Mn**	2	**53.960**	ug/l	53.96	2.0	15000	45	P	
59	**Co**	2	**53.770**	ug/l	53.77	1.9	4500	45	P	
60	**Ni**	2	**55.920**	ug/l	55.92	0.8	15000	45	P	
63	**Cu**	2	**54.230**	ug/l	54.23	1.4	15000	45	P	
66	**Zn**	2	**54.760**	ug/l	54.76	1.7	15000	45	P	
75	**As**	2	**51.970**	ug/l	51.97	1.4	4500	74	P	
78	**Se**	2	**59.180**	ug/l	59.18	6.9	4500	74	P	
88	**Sr**	3	**53.070**	ug/l	53.07	2.0	4500	74	P	
95	**Mo**	3	**53.020**	ug/l	53.02	2.3	4500	74	P	
107	**Ag**	3	**52.160**	ug/l	52.16	0.9	450	103	P	
111	**Cd**	3	**52.200**	ug/l	52.20	2.4	900	103	P	
118	**Sn**	3	**52.070**	ug/l	52.07	2.4	4500	103	P	
121	**Sb**	3	**52.450**	ug/l	52.45	2.0	4500	103	P	
135	**Ba**	3	**52.750**	ug/l	52.75	2.6	4500	103	P	
200	**Hg**	3	**4.455**	ug/l	4.46	1.2	45	209	P	
205	**Tl**	3	**51.850**	ug/l	51.85	3.3	4500	209	P	
208	**Pb**	3	**52.840**	ug/l	52.84	2.0	4500	209	P	
238	**U**	3	**51.010**	ug/l	51.01	2.8	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3836967	1.62	5119000	**75.0**	30	-	120	
45	Sc	1	204612	0.27	341400	**59.9**	30	-	120	
45	Sc	2	232187	2.06	273900	**84.8**	30	-	120	
74	Ge	1	175654	0.68	283600	**61.9**	30	-	120	
74	Ge	2	378946	1.20	422600	**89.7**	30	-	120	
74	Ge	3	1522366	1.49	1674000	**90.9**	30	-	120	
103	Rh	2	720662	0.44	814900	**88.4**	30	-	120	
103	Rh	3	1396247	1.04	1535000	**91.0**	30	-	120	
165	Ho	3	3032068	0.60	3236000	**93.7**	30	-	120	
175	Lu	3	3388139	1.32	3584000	**94.5**	30	-	120	
209	Bi	3	7054861	0.68	7619000	**92.6**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\080SMPL.D\080SMPL.D#
Date Acquired: May 27 2010 09:43 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.015**	ug/l	0.02	17.0	450	6	P	
23	**Na**	2	**4.040**	ug/l	4.04	10.5	450000	45	P	
24	**Mg**	2	**10.890**	ug/l	10.89	1.4	450000	45	P	
27	**Al**	2	**1.602**	ug/l	1.60	7.7	450000	45	P	
31	**P**	2	**-1.610**	ug/l	-1.61	384.2	450000	45	P	
39	**K**	2	**11.650**	ug/l	11.65	34.6	450000	45	P	
44	**Ca**	2	**3.423**	ug/l	3.42	41.3	450000	45	P	
47	**Ti**	2	**0.048**	ug/l	0.05	59.4	4500	45	P	
51	**V**	2	**-0.110**	ug/l	-0.11	12.6	4500	45	P	
52	**Cr**	2	**0.058**	ug/l	0.06	72.2	4500	45	P	
54	**Fe**	2	**6.053**	ug/l	6.05	11.8	450000	74	P	
55	**Mn**	2	**0.183**	ug/l	0.18	11.7	15000	45	P	
59	**Co**	2	**0.022**	ug/l	0.02	17.1	4500	45	P	
60	**Ni**	2	**0.183**	ug/l	0.18	78.9	15000	45	P	
63	**Cu**	2	**0.049**	ug/l	0.05	19.4	15000	45	P	
66	**Zn**	2	**0.073**	ug/l	0.07	25.4	15000	45	P	
75	**As**	2	**-0.046**	ug/l	-0.05	37.6	4500	74	P	
78	**Se**	2	**-0.106**	ug/l	-0.11	134.4	4500	74	P	
88	**Sr**	3	**0.009**	ug/l	0.01	58.4	4500	74	P	
95	**Mo**	3	**0.010**	ug/l	0.01	50.5	4500	74	P	
107	**Ag**	3	**0.004**	ug/l	0.00	25.8	450	103	P	
111	**Cd**	3	**0.005**	ug/l	0.00	236.2	900	103	P	
118	**Sn**	3	**0.028**	ug/l	0.03	36.6	4500	103	P	
121	**Sb**	3	**0.013**	ug/l	0.01	12.5	4500	103	P	
135	**Ba**	3	**0.028**	ug/l	0.03	39.7	4500	103	P	
200	**Hg**	3	**1.491**	ug/l	1.49	0.8	45	209	P	
205	**Tl**	3	**0.324**	ug/l	0.32	3.9	4500	209	P	
208	**Pb**	3	**0.012**	ug/l	0.01	27.0	4500	209	P	
238	**U**	3	**0.009**	ug/l	0.01	17.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3802756	1.76	5119000	**74.3**	30	-	120	
45	Sc	1	222447	1.35	341400	**65.2**	30	-	120	
45	Sc	2	236914	0.55	273900	**86.5**	30	-	120	
74	Ge	1	194874	0.61	283600	**68.7**	30	-	120	
74	Ge	2	392403	0.76	422600	**92.9**	30	-	120	
74	Ge	3	1512202	2.43	1674000	**90.3**	30	-	120	
103	Rh	2	760092	1.00	814900	**93.3**	30	-	120	
103	Rh	3	1434895	1.43	1535000	**93.5**	30	-	120	
165	Ho	3	3064398	0.80	3236000	**94.7**	30	-	120	
175	Lu	3	3390854	0.91	3584000	**94.6**	30	-	120	
209	Bi	3	7264491	0.50	7619000	**95.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed

0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\081SMPL.D\081SMPL.D#
Date Acquired: May 27 2010 09:50 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-8-B Vial Number: 3101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.424**	ug/l	14.24	0.6	450	6	P	
23	**Na**	2	**90.970**	ug/l	909.70	5.2	450000	45	P	
24	**Mg**	2	**104000.000**	ug/l	1,040,000.00	0.9	450000	45	A	
27	**Al**	2	**41840.000**	ug/l	418,400.00	1.5	450000	45	A	
31	**P**	2	**590.100**	ug/l	5,901.00	1.9	450000	45	P	
39	**K**	2	**2911.000**	ug/l	29,110.00	1.1	450000	45	A	
44	**Ca**	2	**2636.000**	ug/l	26,360.00	1.7	450000	45	P	
47	**Ti**	2	**99.920**	ug/l	999.20	2.4	4500	45	P	
51	**V**	2	**126.600**	ug/l	1,266.00	0.4	4500	45	P	
52	**Cr**	2	**783.900**	ug/l	7,839.00	0.8	4500	45	A	
54	**Fe**	2	**127200.000**	ug/l	1,272,000.00	0.9	450000	74	A	
55	**Mn**	2	**2386.000**	ug/l	23,860.00	0.6	15000	45	A	
59	**Co**	2	**171.900**	ug/l	1,719.00	0.3	4500	45	P	
60	**Ni**	2	**2544.000**	ug/l	25,440.00	0.2	15000	45	A	
63	**Cu**	2	**74.900**	ug/l	749.00	1.1	15000	45	P	
66	**Zn**	2	**153.300**	ug/l	1,533.00	0.3	15000	45	P	
75	**As**	2	**21.050**	ug/l	210.50	0.2	4500	74	P	
78	**Se**	2	**1.247**	ug/l	12.47	52.2	4500	74	P	
88	**Sr**	3	**21.930**	ug/l	219.30	1.5	4500	74	P	
95	**Mo**	3	**0.855**	ug/l	8.55	3.7	4500	74	P	
107	**Ag**	3	**0.157**	ug/l	1.57	6.1	450	103	P	
111	**Cd**	3	**0.366**	ug/l	3.66	12.5	900	103	P	
118	**Sn**	3	**1.508**	ug/l	15.08	1.9	4500	103	P	
121	**Sb**	3	**1.211**	ug/l	12.11	3.3	4500	103	P	
135	**Ba**	3	**841.600**	ug/l	8,416.00	1.8	4500	103	P	
200	**Hg**	3	**627.600**	ug/l	6,276.00	1.0	45	209	A	Fail
205	**Tl**	3	**0.359**	ug/l	3.59	1.9	4500	209	P	
208	**Pb**	3	**25.440**	ug/l	254.40	0.2	4500	209	P	
238	**U**	3	**0.333**	ug/l	3.33	4.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3658549	1.09	5119000	**71.5**	30	-	120	
45	Sc	1	216069	0.43	341400	**63.3**	30	-	120	
45	Sc	2	267962	0.98	273900	**97.8**	30	-	120	
74	Ge	1	160980	0.77	283600	**56.8**	30	-	120	
74	Ge	2	381447	0.90	422600	**90.3**	30	-	120	
74	Ge	3	1526867	2.33	1674000	**91.2**	30	-	120	
103	Rh	2	694902	1.21	814900	**85.3**	30	-	120	
103	Rh	3	1374438	1.62	1535000	**89.5**	30	-	120	
165	Ho	3	3056074	0.22	3236000	**94.4**	30	-	120	
175	Lu	3	3398875	1.61	3584000	**94.8**	30	-	120	
209	Bi	3	6638683	0.61	7619000	**87.1**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\082SMPL.D\082SMPL.D#
Date Acquired: May 27 2010 09:57 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-9-A Vial Number: 3102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.456**	ug/l	14.56	2.8	450	6	P	
23	**Na**	2	**87.550**	ug/l	875.50	41.7	450000	45	P	
24	**Mg**	2	**29620.000**	ug/l	296,200.00	0.5	450000	45	A	
27	**Al**	2	**34050.000**	ug/l	340,500.00	1.3	450000	45	A	
31	**P**	2	**644.900**	ug/l	6,449.00	2.8	450000	45	P	
39	**K**	2	**2269.000**	ug/l	22,690.00	1.6	450000	45	A	
44	**Ca**	2	**1944.000**	ug/l	19,440.00	1.6	450000	45	P	
47	**Ti**	2	**1248.000**	ug/l	12,480.00	0.5	4500	45	P	
51	**V**	2	**99.580**	ug/l	995.80	0.7	4500	45	P	
52	**Cr**	2	**300.400**	ug/l	3,004.00	0.8	4500	45	P	
54	**Fe**	2	**75720.000**	ug/l	757,200.00	1.8	450000	74	A	
55	**Mn**	2	**1119.000**	ug/l	11,190.00	1.5	15000	45	A	
59	**Co**	2	**58.070**	ug/l	580.70	0.6	4500	45	P	
60	**Ni**	2	**610.400**	ug/l	6,104.00	0.4	15000	45	P	
63	**Cu**	2	**62.760**	ug/l	627.60	0.8	15000	45	P	
66	**Zn**	2	**131.300**	ug/l	1,313.00	0.3	15000	45	P	
75	**As**	2	**12.520**	ug/l	125.20	4.4	4500	74	P	
78	**Se**	2	**0.645**	ug/l	6.45	21.7	4500	74	P	
88	**Sr**	3	**10.430**	ug/l	104.30	1.5	4500	74	P	
95	**Mo**	3	**0.755**	ug/l	7.55	11.3	4500	74	P	
107	**Ag**	3	**0.030**	ug/l	0.30	16.2	450	103	P	
111	**Cd**	3	**0.284**	ug/l	2.84	9.6	900	103	P	
118	**Sn**	3	**1.358**	ug/l	13.58	1.6	4500	103	P	
121	**Sb**	3	**0.968**	ug/l	9.68	3.6	4500	103	P	
135	**Ba**	3	**239.300**	ug/l	2,393.00	1.8	4500	103	P	
200	**Hg**	3	**16.930**	ug/l	169.30	2.4	45	209	P	
205	**Tl**	3	**0.261**	ug/l	2.61	1.8	4500	209	P	
208	**Pb**	3	**24.090**	ug/l	240.90	1.0	4500	209	P	
238	**U**	3	**0.997**	ug/l	9.97	2.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3899313	2.09	5119000	**76.2**	30	-	120	
45	Sc	1	199337	1.62	341400	**58.4**	30	-	120	
45	Sc	2	260761	0.46	273900	**95.2**	30	-	120	
74	Ge	1	155718	1.69	283600	**54.9**	30	-	120	
74	Ge	2	386664	1.48	422600	**91.5**	30	-	120	
74	Ge	3	1608222	1.62	1674000	**96.1**	30	-	120	
103	Rh	2	722030	0.80	814900	**88.6**	30	-	120	
103	Rh	3	1461609	1.17	1535000	**95.2**	30	-	120	
165	Ho	3	3154200	0.58	3236000	**97.5**	30	-	120	
175	Lu	3	3513231	1.18	3584000	**98.0**	30	-	120	
209	Bi	3	6996478	0.90	7619000	**91.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\083SMPL.D\083SMPL.D#
Date Acquired: May 27 2010 10:04 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-10-A Vial Number: 3103
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.108**	ug/l	11.08	3.7	450	6	P	
23	**Na**	2	**90.630**	ug/l	906.30	6.3	450000	45	P	
24	**Mg**	2	**37410.000**	ug/l	374,100.00	1.0	450000	45	A	
27	**Al**	2	**29690.000**	ug/l	296,900.00	1.3	450000	45	A	
31	**P**	2	**887.800**	ug/l	8,878.00	3.8	450000	45	P	
39	**K**	2	**2754.000**	ug/l	27,540.00	0.5	450000	45	A	
44	**Ca**	2	**6506.000**	ug/l	65,060.00	0.8	450000	45	P	
47	**Ti**	2	**696.500**	ug/l	6,965.00	0.8	4500	45	P	
51	**V**	2	**96.070**	ug/l	960.70	0.7	4500	45	P	
52	**Cr**	2	**282.000**	ug/l	2,820.00	0.9	4500	45	P	
54	**Fe**	2	**69710.000**	ug/l	697,100.00	1.3	450000	74	A	
55	**Mn**	2	**1383.000**	ug/l	13,830.00	0.2	15000	45	A	
59	**Co**	2	**54.000**	ug/l	540.00	0.5	4500	45	P	
60	**Ni**	2	**562.200**	ug/l	5,622.00	0.9	15000	45	P	
63	**Cu**	2	**78.080**	ug/l	780.80	1.4	15000	45	P	
66	**Zn**	2	**128.500**	ug/l	1,285.00	0.3	15000	45	P	
75	**As**	2	**14.740**	ug/l	147.40	2.7	4500	74	P	
78	**Se**	2	**0.307**	ug/l	3.07	203.3	4500	74	P	
88	**Sr**	3	**47.400**	ug/l	474.00	1.2	4500	74	P	
95	**Mo**	3	**1.632**	ug/l	16.32	6.3	4500	74	P	
107	**Ag**	3	**0.095**	ug/l	0.95	15.3	450	103	P	
111	**Cd**	3	**0.281**	ug/l	2.81	20.7	900	103	P	
118	**Sn**	3	**1.052**	ug/l	10.52	4.4	4500	103	P	
121	**Sb**	3	**1.017**	ug/l	10.17	2.9	4500	103	P	
135	**Ba**	3	**488.000**	ug/l	4,880.00	1.2	4500	103	P	
200	**Hg**	3	**72.920**	ug/l	729.20	1.1	45	209	P	Fail
205	**Tl**	3	**0.204**	ug/l	2.04	2.6	4500	209	P	
208	**Pb**	3	**25.350**	ug/l	253.50	0.4	4500	209	P	
238	**U**	3	**0.466**	ug/l	4.66	1.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3939096	1.22	5119000	**77.0**	30	-	120	
45	Sc	1	202387	1.02	341400	**59.3**	30	-	120	
45	Sc	2	263809	0.63	273900	**96.3**	30	-	120	
74	Ge	1	161520	1.87	283600	**57.0**	30	-	120	
74	Ge	2	390608	0.77	422600	**92.4**	30	-	120	
74	Ge	3	1604168	1.23	1674000	**95.8**	30	-	120	
103	Rh	2	721547	0.61	814900	**88.5**	30	-	120	
103	Rh	3	1428271	1.05	1535000	**93.0**	30	-	120	
165	Ho	3	3123711	1.18	3236000	**96.5**	30	-	120	
175	Lu	3	3485432	0.96	3584000	**97.2**	30	-	120	
209	Bi	3	6945183	0.99	7619000	**91.2**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\084SMPL.D\084SMPL.D#
Date Acquired: May 27 2010 10:11 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-11-B Vial Number: 3104
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.101**	ug/l	11.01	5.6	450	6	P	
23	**Na**	2	**85.980**	ug/l	859.80	2.4	450000	45	P	
24	**Mg**	2	**84630.000**	ug/l	846,300.00	1.0	450000	45	A	
27	**Al**	2	**27650.000**	ug/l	276,500.00	1.4	450000	45	A	
31	**P**	2	**603.300**	ug/l	6,033.00	5.2	450000	45	P	
39	**K**	2	**2199.000**	ug/l	21,990.00	0.7	450000	45	M	
44	**Ca**	2	**3728.000**	ug/l	37,280.00	0.5	450000	45	P	
47	**Ti**	2	**500.200**	ug/l	5,002.00	0.7	4500	45	P	
51	**V**	2	**105.200**	ug/l	1,052.00	1.4	4500	45	P	
52	**Cr**	2	**703.300**	ug/l	7,033.00	0.2	4500	45	A	
54	**Fe**	2	**98670.000**	ug/l	986,700.00	1.7	450000	74	A	
55	**Mn**	2	**2692.000**	ug/l	26,920.00	0.9	15000	45	A	
59	**Co**	2	**143.600**	ug/l	1,436.00	0.3	4500	45	P	
60	**Ni**	2	**1995.000**	ug/l	19,950.00	0.2	15000	45	A	
63	**Cu**	2	**76.700**	ug/l	767.00	1.3	15000	45	P	
66	**Zn**	2	**140.900**	ug/l	1,409.00	1.5	15000	45	P	
75	**As**	2	**17.660**	ug/l	176.60	1.1	4500	74	P	
78	**Se**	2	**0.997**	ug/l	9.97	67.6	4500	74	P	
88	**Sr**	3	**28.080**	ug/l	280.80	0.9	4500	74	P	
95	**Mo**	3	**1.396**	ug/l	13.96	6.9	4500	74	P	
107	**Ag**	3	**0.093**	ug/l	0.93	12.4	450	103	P	
111	**Cd**	3	**0.282**	ug/l	2.82	3.7	900	103	P	
118	**Sn**	3	**0.990**	ug/l	9.90	8.9	4500	103	P	
121	**Sb**	3	**1.999**	ug/l	19.99	4.7	4500	103	P	
135	**Ba**	3	**549.100**	ug/l	5,491.00	1.0	4500	103	P	
200	**Hg**	3	**752.600**	ug/l	7,526.00	1.3	45	209	A	Fail
205	**Tl**	3	**0.195**	ug/l	1.95	1.7	4500	209	P	
208	**Pb**	3	**51.130**	ug/l	511.30	1.6	4500	209	P	
238	**U**	3	**0.550**	ug/l	5.50	0.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3703882	1.90	5119000	**72.4**	30	-	120	
45	Sc	1	191486	0.94	341400	**56.1**	30	-	120	
45	Sc	2	261502	0.98	273900	**95.5**	30	-	120	
74	Ge	1	145486	1.59	283600	**51.3**	30	-	120	
74	Ge	2	382587	1.40	422600	**90.5**	30	-	120	
74	Ge	3	1533587	0.79	1674000	**91.6**	30	-	120	
103	Rh	2	708580	1.52	814900	**87.0**	30	-	120	
103	Rh	3	1383990	1.17	1535000	**90.2**	30	-	120	
165	Ho	3	3105760	1.03	3236000	**96.0**	30	-	120	
175	Lu	3	3415428	0.81	3584000	**95.3**	30	-	120	
209	Bi	3	6751332	2.01	7619000	**88.6**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\085SMPL.D\085SMPL.D#
Date Acquired: May 27 2010 10:18 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-12-A Vial Number: 3105
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.424**	ug/l	4.24	6.8	450	6	P	
23	**Na**	2	**152.100**	ug/l	1,521.00	1.8	450000	45	P	
24	**Mg**	2	**145200.000**	ug/l	1,452,000.00	1.1	450000	45	A	
27	**Al**	2	**38350.000**	ug/l	383,500.00	1.6	450000	45	A	
31	**P**	2	**255.500**	ug/l	2,555.00	8.9	450000	45	P	
39	**K**	2	**936.500**	ug/l	9,365.00	2.1	450000	45	P	
44	**Ca**	2	**3999.000**	ug/l	39,990.00	2.1	450000	45	P	
47	**Ti**	2	**575.400**	ug/l	5,754.00	0.9	4500	45	P	
51	**V**	2	**116.900**	ug/l	1,169.00	1.8	4500	45	P	
52	**Cr**	2	**1952.000**	ug/l	19,520.00	1.4	4500	45	A	
54	**Fe**	2	**116700.000**	ug/l	1,167,000.00	1.5	450000	74	A	
55	**Mn**	2	**1526.000**	ug/l	15,260.00	0.8	15000	45	A	
59	**Co**	2	**187.700**	ug/l	1,877.00	1.2	4500	45	P	
60	**Ni**	2	**2929.000**	ug/l	29,290.00	0.5	15000	45	A	
63	**Cu**	2	**68.370**	ug/l	683.70	1.8	15000	45	P	
66	**Zn**	2	**83.120**	ug/l	831.20	1.6	15000	45	P	
75	**As**	2	**18.390**	ug/l	183.90	1.8	4500	74	P	
78	**Se**	2	**0.283**	ug/l	2.83	184.4	4500	74	P	
88	**Sr**	3	**24.470**	ug/l	244.70	0.3	4500	74	P	
95	**Mo**	3	**0.293**	ug/l	2.93	5.8	4500	74	P	
107	**Ag**	3	**0.050**	ug/l	0.50	12.3	450	103	P	
111	**Cd**	3	**0.159**	ug/l	1.59	16.4	900	103	P	
118	**Sn**	3	**0.381**	ug/l	3.81	6.4	4500	103	P	
121	**Sb**	3	**0.504**	ug/l	5.04	0.7	4500	103	P	
135	**Ba**	3	**290.200**	ug/l	2,902.00	1.2	4500	103	P	
200	**Hg**	3	**27.900**	ug/l	279.00	0.3	45	209	P	
205	**Tl**	3	**0.188**	ug/l	1.88	0.6	4500	209	P	
208	**Pb**	3	**7.128**	ug/l	71.28	0.9	4500	209	P	
238	**U**	3	**0.122**	ug/l	1.22	3.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3515934	0.79	5119000	**68.7**	30	-	120	
45	Sc	1	195668	1.94	341400	**57.3**	30	-	120	
45	Sc	2	259539	0.38	273900	**94.8**	30	-	120	
74	Ge	1	146643	2.34	283600	**51.7**	30	-	120	
74	Ge	2	367871	1.30	422600	**87.0**	30	-	120	
74	Ge	3	1496607	0.20	1674000	**89.4**	30	-	120	
103	Rh	2	688541	1.42	814900	**84.5**	30	-	120	
103	Rh	3	1356879	0.50	1535000	**88.4**	30	-	120	
165	Ho	3	3042941	1.40	3236000	**94.0**	30	-	120	
175	Lu	3	3376903	0.58	3584000	**94.2**	30	-	120	
209	Bi	3	6607722	1.17	7619000	**86.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\086SMPL.D\086SMPL.D#
Date Acquired: May 27 2010 10:25 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-13-B Vial Number: 3106
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.941**	ug/l	9.41	4.0	450	6	P	
23	**Na**	2	**39.350**	ug/l	393.50	2.2	450000	45	P	
24	**Mg**	2	**75200.000**	ug/l	752,000.00	2.2	450000	45	A	
27	**Al**	2	**17920.000**	ug/l	179,200.00	0.4	450000	45	A	
31	**P**	2	**730.800**	ug/l	7,308.00	4.0	450000	45	P	
39	**K**	2	**2323.000**	ug/l	23,230.00	1.0	450000	45	A	
44	**Ca**	2	**2446.000**	ug/l	24,460.00	0.4	450000	45	P	
47	**Ti**	2	**105.200**	ug/l	1,052.00	5.1	4500	45	P	
51	**V**	2	**83.200**	ug/l	832.00	0.8	4500	45	P	
52	**Cr**	2	**484.300**	ug/l	4,843.00	0.6	4500	45	A	
54	**Fe**	2	**101300.000**	ug/l	1,013,000.00	1.3	450000	74	A	
55	**Mn**	2	**1635.000**	ug/l	16,350.00	1.1	15000	45	A	
59	**Co**	2	**139.400**	ug/l	1,394.00	0.2	4500	45	P	
60	**Ni**	2	**2520.000**	ug/l	25,200.00	2.0	15000	45	A	
63	**Cu**	2	**64.480**	ug/l	644.80	0.7	15000	45	P	
66	**Zn**	2	**139.400**	ug/l	1,394.00	1.3	15000	45	P	
75	**As**	2	**14.410**	ug/l	144.10	5.1	4500	74	P	
78	**Se**	2	**0.748**	ug/l	7.48	68.4	4500	74	P	
88	**Sr**	3	**27.340**	ug/l	273.40	2.0	4500	74	P	
95	**Mo**	3	**1.170**	ug/l	11.70	7.5	4500	74	P	
107	**Ag**	3	**0.127**	ug/l	1.27	3.2	450	103	P	
111	**Cd**	3	**0.239**	ug/l	2.39	13.9	900	103	P	
118	**Sn**	3	**2.078**	ug/l	20.78	1.4	4500	103	P	
121	**Sb**	3	**2.469**	ug/l	24.69	1.9	4500	103	P	
135	**Ba**	3	**241.900**	ug/l	2,419.00	0.6	4500	103	P	
200	**Hg**	3	**66.040**	ug/l	660.40	1.7	45	209	P	Fail
205	**Tl**	3	**0.211**	ug/l	2.11	9.8	4500	209	P	
208	**Pb**	3	**233.600**	ug/l	2,336.00	1.4	4500	209	A	
238	**U**	3	**0.335**	ug/l	3.35	3.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3611349	1.03	5119000	**70.5**	30	-	120	
45	Sc	1	188403	2.08	341400	**55.2**	30	-	120	
45	Sc	2	259143	0.94	273900	**94.6**	30	-	120	
74	Ge	1	144971	1.29	283600	**51.1**	30	-	120	
74	Ge	2	381922	1.24	422600	**90.4**	30	-	120	
74	Ge	3	1512008	1.25	1674000	**90.3**	30	-	120	
103	Rh	2	706642	1.38	814900	**86.7**	30	-	120	
103	Rh	3	1378286	1.56	1535000	**89.8**	30	-	120	
165	Ho	3	3062666	0.85	3236000	**94.6**	30	-	120	
175	Lu	3	3349822	1.64	3584000	**93.5**	30	-	120	
209	Bi	3	6677571	1.72	7619000	**87.6**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\087SMPL.D\087SMPL.D#
Date Acquired: May 27 2010 10:32 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**51.230**	ug/l	51.23	2.7	450	6	P	
23	**Na**	2	**5015.000**	ug/l	5,015.00	3.6	450000	45	A	
24	**Mg**	2	**5134.000**	ug/l	5,134.00	2.9	450000	45	A	
27	**Al**	2	**500.200**	ug/l	500.20	1.1	450000	45	P	
31	**P**	2	**4890.000**	ug/l	4,890.00	1.0	450000	45	P	
39	**K**	2	**5265.000**	ug/l	5,265.00	1.7	450000	45	A	
44	**Ca**	2	**5221.000**	ug/l	5,221.00	3.1	450000	45	P	
47	**Ti**	2	**52.670**	ug/l	52.67	1.4	4500	45	P	
51	**V**	2	**52.340**	ug/l	52.34	1.3	4500	45	P	
52	**Cr**	2	**53.230**	ug/l	53.23	2.0	4500	45	P	
54	**Fe**	2	**5169.000**	ug/l	5,169.00	0.5	450000	74	P	
55	**Mn**	2	**53.920**	ug/l	53.92	1.4	15000	45	P	
59	**Co**	2	**53.190**	ug/l	53.19	1.6	4500	45	P	
60	**Ni**	2	**54.100**	ug/l	54.10	0.2	15000	45	P	
63	**Cu**	2	**53.860**	ug/l	53.86	1.0	15000	45	P	
66	**Zn**	2	**54.850**	ug/l	54.85	1.4	15000	45	P	
75	**As**	2	**51.370**	ug/l	51.37	1.5	4500	74	P	
78	**Se**	2	**50.110**	ug/l	50.11	6.8	4500	74	P	
88	**Sr**	3	**53.910**	ug/l	53.91	0.1	4500	74	P	
95	**Mo**	3	**53.810**	ug/l	53.81	0.6	4500	74	P	
107	**Ag**	3	**51.830**	ug/l	51.83	2.3	450	103	P	
111	**Cd**	3	**51.540**	ug/l	51.54	1.8	900	103	P	
118	**Sn**	3	**52.510**	ug/l	52.51	2.7	4500	103	P	
121	**Sb**	3	**52.680**	ug/l	52.68	2.8	4500	103	P	
135	**Ba**	3	**53.690**	ug/l	53.69	3.6	4500	103	P	
200	**Hg**	3	**4.330**	ug/l	4.33	1.3	45	209	P	
205	**Tl**	3	**51.770**	ug/l	51.77	2.6	4500	209	P	
208	**Pb**	3	**52.880**	ug/l	52.88	2.0	4500	209	P	
238	**U**	3	**52.020**	ug/l	52.02	3.0	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3727925	0.85	5119000	**72.8**	30	-	120	
45	Sc	1	195966	0.68	341400	**57.4**	30	-	120	
45	Sc	2	223784	1.67	273900	**81.7**	30	-	120	
74	Ge	1	165171	1.34	283600	**58.2**	30	-	120	
74	Ge	2	364915	1.06	422600	**86.4**	30	-	120	
74	Ge	3	1464999	2.25	1674000	**87.5**	30	-	120	
103	Rh	2	698555	1.62	814900	**85.7**	30	-	120	
103	Rh	3	1355518	0.85	1535000	**88.3**	30	-	120	
165	Ho	3	3016618	0.55	3236000	**93.2**	30	-	120	
175	Lu	3	3349103	0.92	3584000	**93.4**	30	-	120	
209	Bi	3	7001938	1.10	7619000	**91.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\088SMPL.D\088SMPL.D#
Date Acquired: May 27 2010 10:39 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.013**	ug/l	0.01	42.2	450	6	P	
23	**Na**	2	**3.233**	ug/l	3.23	38.4	450000	45	P	
24	**Mg**	2	**6.984**	ug/l	6.98	5.1	450000	45	P	
27	**Al**	2	**1.632**	ug/l	1.63	23.2	450000	45	P	
31	**P**	2	**-5.544**	ug/l	-5.54	21.3	450000	45	P	
39	**K**	2	**9.779**	ug/l	9.78	40.6	450000	45	P	
44	**Ca**	2	**3.008**	ug/l	3.01	56.7	450000	45	P	
47	**Ti**	2	**0.035**	ug/l	0.03	70.3	4500	45	P	
51	**V**	2	**-0.107**	ug/l	-0.11	47.8	4500	45	P	
52	**Cr**	2	**0.045**	ug/l	0.05	103.9	4500	45	P	
54	**Fe**	2	**5.699**	ug/l	5.70	13.1	450000	74	P	
55	**Mn**	2	**0.208**	ug/l	0.21	5.7	15000	45	P	
59	**Co**	2	**0.027**	ug/l	0.03	5.7	4500	45	P	
60	**Ni**	2	**0.204**	ug/l	0.20	16.9	15000	45	P	
63	**Cu**	2	**0.022**	ug/l	0.02	47.8	15000	45	P	
66	**Zn**	2	**0.140**	ug/l	0.14	20.5	15000	45	P	
75	**As**	2	**-0.053**	ug/l	-0.05	24.6	4500	74	P	
78	**Se**	2	**0.085**	ug/l	0.08	446.6	4500	74	P	
88	**Sr**	3	**0.013**	ug/l	0.01	44.6	4500	74	P	
95	**Mo**	3	**0.011**	ug/l	0.01	111.1	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.01	43.0	450	103	P	
111	**Cd**	3	**0.006**	ug/l	0.01	176.7	900	103	P	
118	**Sn**	3	**0.039**	ug/l	0.04	27.0	4500	103	P	
121	**Sb**	3	**0.023**	ug/l	0.02	26.0	4500	103	P	
135	**Ba**	3	**0.032**	ug/l	0.03	32.7	4500	103	P	
200	**Hg**	3	**1.504**	ug/l	1.50	0.9	45	209	P	
205	**Tl**	3	**0.331**	ug/l	0.33	8.9	4500	209	P	
208	**Pb**	3	**0.023**	ug/l	0.02	11.7	4500	209	P	
238	**U**	3	**0.010**	ug/l	0.01	9.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3539394	0.62	5119000	**69.1**	30	-	120	
45	Sc	1	205779	1.30	341400	**60.3**	30	-	120	
45	Sc	2	227463	0.70	273900	**83.0**	30	-	120	
74	Ge	1	180855	0.85	283600	**63.8**	30	-	120	
74	Ge	2	378403	0.93	422600	**89.5**	30	-	120	
74	Ge	3	1451116	0.92	1674000	**86.7**	30	-	120	
103	Rh	2	740264	0.51	814900	**90.8**	30	-	120	
103	Rh	3	1369834	1.11	1535000	**89.2**	30	-	120	
165	Ho	3	2989092	0.62	3236000	**92.4**	30	-	120	
175	Lu	3	3331687	0.94	3584000	**93.0**	30	-	120	
209	Bi	3	7166026	0.69	7619000	**94.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\089SMPL.D\089SMPL.D#
Date Acquired: May 27 2010 10:47 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64499/19-A Vial Number: 3201
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	85.3	450	6	P	
23	**Na**	2	**5.484**	ug/l	5.48	220.8	450000	45	P	
24	**Mg**	2	**1.932**	ug/l	1.93	7.4	450000	45	P	
27	**Al**	2	**0.450**	ug/l	0.45	9.0	450000	45	P	
31	**P**	2	**-10.130**	ug/l	-10.13	37.6	450000	45	P	
39	**K**	2	**12.610**	ug/l	12.61	166.7	450000	45	P	
44	**Ca**	2	**-0.272**	ug/l	-0.27	290.1	450000	45	P	
47	**Ti**	2	**0.008**	ug/l	0.01	176.1	4500	45	P	
51	**V**	2	**-0.104**	ug/l	-0.10	89.6	4500	45	P	
52	**Cr**	2	**0.019**	ug/l	0.02	403.7	4500	45	P	
54	**Fe**	2	**1.188**	ug/l	1.19	69.5	450000	74	P	
55	**Mn**	2	**0.154**	ug/l	0.15	24.6	15000	45	P	
59	**Co**	2	**0.008**	ug/l	0.01	12.8	4500	45	P	
60	**Ni**	2	**0.083**	ug/l	0.08	77.0	15000	45	P	
63	**Cu**	2	**0.019**	ug/l	0.02	45.5	15000	45	P	
66	**Zn**	2	**0.073**	ug/l	0.07	17.0	15000	45	P	
75	**As**	2	**-0.031**	ug/l	-0.03	121.8	4500	74	P	
78	**Se**	2	**0.158**	ug/l	0.16	347.3	4500	74	P	
88	**Sr**	3	**0.004**	ug/l	0.00	41.2	4500	74	P	
95	**Mo**	3	**-0.008**	ug/l	-0.01	55.9	4500	74	P	
107	**Ag**	3	**-0.003**	ug/l	0.00	76.8	450	103	P	
111	**Cd**	3	**0.000**	ug/l	0.00	587.3	900	103	P	
118	**Sn**	3	**0.010**	ug/l	0.01	78.5	4500	103	P	
121	**Sb**	3	**0.010**	ug/l	0.01	58.7	4500	103	P	
135	**Ba**	3	**0.007**	ug/l	0.01	161.0	4500	103	P	
200	**Hg**	3	**1.390**	ug/l	1.39	2.4	45	209	P	
205	**Tl**	3	**0.118**	ug/l	0.12	10.1	4500	209	P	
208	**Pb**	3	**0.005**	ug/l	0.01	24.3	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.00	237.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3549359	1.47	5119000	**69.3**	30	-	120	
45	Sc	1	206146	1.32	341400	**60.4**	30	-	120	
45	Sc	2	222901	12.14	273900	**81.4**	30	-	120	
74	Ge	1	181795	0.79	283600	**64.1**	30	-	120	
74	Ge	2	372000	10.17	422600	**88.0**	30	-	120	
74	Ge	3	1438880	0.05	1674000	**86.0**	30	-	120	
103	Rh	2	728774	12.02	814900	**89.4**	30	-	120	
103	Rh	3	1390077	0.67	1535000	**90.6**	30	-	120	
165	Ho	3	3010248	0.22	3236000	**93.0**	30	-	120	
175	Lu	3	3381929	1.12	3584000	**94.4**	30	-	120	
209	Bi	3	7230005	0.67	7619000	**94.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\090SMPL.D\090SMPL.D#
Date Acquired: May 27 2010 10:54 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-E SD Vial Number: 3202
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.01	90.8	450	6	P	
23	**Na**	2	**1214.000**	ug/l	6,070.00	2.0	450000	45	A	
24	**Mg**	2	**2004.000**	ug/l	10,020.00	1.2	450000	45	P	
27	**Al**	2	**27.230**	ug/l	136.15	2.5	450000	45	P	
31	**P**	2	**3.632**	ug/l	18.16	66.7	450000	45	P	
39	**K**	2	**401.500**	ug/l	2,007.50	2.2	450000	45	P	
44	**Ca**	2	**1723.000**	ug/l	8,615.00	3.7	450000	45	P	
47	**Ti**	2	**0.077**	ug/l	0.38	50.6	4500	45	P	
51	**V**	2	**1.524**	ug/l	7.62	8.5	4500	45	P	
52	**Cr**	2	**1.201**	ug/l	6.01	5.4	4500	45	P	
54	**Fe**	2	**2.471**	ug/l	12.36	19.5	450000	74	P	
55	**Mn**	2	**0.228**	ug/l	1.14	2.9	15000	45	P	
59	**Co**	2	**1.754**	ug/l	8.77	3.5	4500	45	P	
60	**Ni**	2	**0.247**	ug/l	1.23	32.2	15000	45	P	
63	**Cu**	2	**0.047**	ug/l	0.23	37.3	15000	45	P	
66	**Zn**	2	**0.246**	ug/l	1.23	40.0	15000	45	P	
75	**As**	2	**0.503**	ug/l	2.52	2.3	4500	74	P	
78	**Se**	2	**-0.069**	ug/l	-0.35	425.4	4500	74	P	
88	**Sr**	3	**10.020**	ug/l	50.10	1.6	4500	74	P	
95	**Mo**	3	**0.054**	ug/l	0.27	33.6	4500	74	P	
107	**Ag**	3	**-0.001**	ug/l	0.00	212.7	450	103	P	
111	**Cd**	3	**-0.001**	ug/l	0.00	571.6	900	103	P	
118	**Sn**	3	**0.022**	ug/l	0.11	34.2	4500	103	P	
121	**Sb**	3	**0.019**	ug/l	0.09	24.1	4500	103	P	
135	**Ba**	3	**0.876**	ug/l	4.38	6.2	4500	103	P	
200	**Hg**	3	**0.708**	ug/l	3.54	3.5	45	209	P	
205	**Tl**	3	**0.071**	ug/l	0.36	8.5	4500	209	P	
208	**Pb**	3	**0.009**	ug/l	0.04	25.9	4500	209	P	
238	**U**	3	**0.009**	ug/l	0.04	47.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3302573	1.83	5119000	**64.5**	30	-	120	
45	Sc	1	192925	0.50	341400	**56.5**	30	-	120	
45	Sc	2	219359	0.67	273900	**80.1**	30	-	120	
74	Ge	1	172757	1.57	283600	**60.9**	30	-	120	
74	Ge	2	370841	0.47	422600	**87.8**	30	-	120	
74	Ge	3	1445680	1.87	1674000	**86.4**	30	-	120	
103	Rh	2	708844	0.31	814900	**87.0**	30	-	120	
103	Rh	3	1341837	0.90	1535000	**87.4**	30	-	120	
165	Ho	3	2981920	0.80	3236000	**92.1**	30	-	120	
175	Lu	3	3327813	0.27	3584000	**92.9**	30	-	120	
209	Bi	3	7047988	0.94	7619000	**92.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\091SMPL.D\091SMPL.D#
Date Acquired: May 27 2010 11:01 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-E Vial Number: 3203
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.00	80.1	450	6	P	
23	**Na**	2	**5902.000**	ug/l	5,902.00	0.3	450000	45	A	
24	**Mg**	2	**9439.000**	ug/l	9,439.00	0.8	450000	45	A	
27	**Al**	2	**7.775**	ug/l	7.78	6.3	450000	45	P	
31	**P**	2	**48.250**	ug/l	48.25	19.3	450000	45	P	
39	**K**	2	**2011.000**	ug/l	2,011.00	0.6	450000	45	P	
44	**Ca**	2	**8455.000**	ug/l	8,455.00	0.6	450000	45	P	
47	**Ti**	2	**0.368**	ug/l	0.37	22.4	4500	45	P	
51	**V**	2	**9.511**	ug/l	9.51	1.4	4500	45	P	
52	**Cr**	2	**5.894**	ug/l	5.89	1.3	4500	45	P	
54	**Fe**	2	**9.418**	ug/l	9.42	7.8	450000	74	P	
55	**Mn**	2	**0.718**	ug/l	0.72	1.2	15000	45	P	
59	**Co**	2	**8.794**	ug/l	8.79	0.8	4500	45	P	
60	**Ni**	2	**1.148**	ug/l	1.15	6.8	15000	45	P	
63	**Cu**	2	**0.440**	ug/l	0.44	18.2	15000	45	P	
66	**Zn**	2	**9.612**	ug/l	9.61	3.3	15000	45	P	
75	**As**	2	**2.491**	ug/l	2.49	6.4	4500	74	P	
78	**Se**	2	**-0.078**	ug/l	-0.08	184.3	4500	74	P	
88	**Sr**	3	**46.120**	ug/l	46.12	2.6	4500	74	P	
95	**Mo**	3	**0.229**	ug/l	0.23	15.7	4500	74	P	
107	**Ag**	3	**0.000**	ug/l	0.00	2969.0	450	103	P	
111	**Cd**	3	**0.017**	ug/l	0.02	83.6	900	103	P	
118	**Sn**	3	**0.232**	ug/l	0.23	2.5	4500	103	P	
121	**Sb**	3	**0.106**	ug/l	0.11	21.6	4500	103	P	
135	**Ba**	3	**4.332**	ug/l	4.33	4.0	4500	103	P	
200	**Hg**	3	**0.239**	ug/l	0.24	4.1	45	209	P	
205	**Tl**	3	**0.065**	ug/l	0.06	9.1	4500	209	P	
208	**Pb**	3	**0.037**	ug/l	0.04	3.0	4500	209	P	
238	**U**	3	**0.051**	ug/l	0.05	6.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2852653	1.29	5119000	**55.7**	30	-	120	
45	Sc	1	174932	2.55	341400	**51.2**	30	-	120	
45	Sc	2	204614	0.95	273900	**74.7**	30	-	120	
74	Ge	1	165368	1.29	283600	**58.3**	30	-	120	
74	Ge	2	375772	1.22	422600	**88.9**	30	-	120	
74	Ge	3	1433402	0.76	1674000	**85.6**	30	-	120	
103	Rh	2	656125	0.98	814900	**80.5**	30	-	120	
103	Rh	3	1262760	0.56	1535000	**82.3**	30	-	120	
165	Ho	3	2870410	0.86	3236000	**88.7**	30	-	120	
175	Lu	3	3167731	1.31	3584000	**88.4**	30	-	120	
209	Bi	3	6654344	0.39	7619000	**87.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\092SMPL.D\092SMPL.D#
Date Acquired: May 27 2010 11:08 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-F DU Vial Number: 3204
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	37.6	450	6	P	
23	**Na**	2	**5879.000**	ug/l	5,879.00	3.6	450000	45	A	
24	**Mg**	2	**9319.000**	ug/l	9,319.00	2.5	450000	45	A	
27	**Al**	2	**7.238**	ug/l	7.24	9.3	450000	45	P	
31	**P**	2	**42.240**	ug/l	42.24	13.3	450000	45	P	
39	**K**	2	**2017.000**	ug/l	2,017.00	2.1	450000	45	P	
44	**Ca**	2	**8409.000**	ug/l	8,409.00	2.4	450000	45	P	
47	**Ti**	2	**0.550**	ug/l	0.55	51.2	4500	45	P	
51	**V**	2	**9.675**	ug/l	9.68	2.2	4500	45	P	
52	**Cr**	2	**5.945**	ug/l	5.95	1.5	4500	45	P	
54	**Fe**	2	**9.762**	ug/l	9.76	6.1	450000	74	P	
55	**Mn**	2	**0.706**	ug/l	0.71	1.5	15000	45	P	
59	**Co**	2	**8.750**	ug/l	8.75	1.6	4500	45	P	
60	**Ni**	2	**1.209**	ug/l	1.21	18.1	15000	45	P	
63	**Cu**	2	**0.379**	ug/l	0.38	7.2	15000	45	P	
66	**Zn**	2	**1.907**	ug/l	1.91	16.7	15000	45	P	
75	**As**	2	**2.480**	ug/l	2.48	5.1	4500	74	P	
78	**Se**	2	**-0.146**	ug/l	-0.15	448.2	4500	74	P	
88	**Sr**	3	**46.460**	ug/l	46.46	3.9	4500	74	P	
95	**Mo**	3	**0.262**	ug/l	0.26	28.8	4500	74	P	
107	**Ag**	3	**0.004**	ug/l	0.00	111.3	450	103	P	
111	**Cd**	3	**-0.003**	ug/l	0.00	420.1	900	103	P	
118	**Sn**	3	**0.121**	ug/l	0.12	6.7	4500	103	P	
121	**Sb**	3	**0.090**	ug/l	0.09	9.3	4500	103	P	
135	**Ba**	3	**4.180**	ug/l	4.18	5.6	4500	103	P	
200	**Hg**	3	**0.216**	ug/l	0.22	4.0	45	209	P	
205	**Tl**	3	**0.054**	ug/l	0.05	13.7	4500	209	P	
208	**Pb**	3	**0.038**	ug/l	0.04	11.1	4500	209	P	
238	**U**	3	**0.053**	ug/l	0.05	5.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2687960	2.22	5119000	**52.5**	30	-	120	
45	Sc	1	167065	0.44	341400	**48.9**	30	-	120	
45	Sc	2	199838	2.46	273900	**73.0**	30	-	120	
74	Ge	1	159907	1.28	283600	**56.4**	30	-	120	
74	Ge	2	366695	0.62	422600	**86.8**	30	-	120	
74	Ge	3	1403228	4.03	1674000	**83.8**	30	-	120	
103	Rh	2	646139	1.62	814900	**79.3**	30	-	120	
103	Rh	3	1236048	1.27	1535000	**80.5**	30	-	120	
165	Ho	3	2844239	1.65	3236000	**87.9**	30	-	120	
175	Lu	3	3183670	1.69	3584000	**88.8**	30	-	120	
209	Bi	3	6613079	0.30	7619000	**86.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\093SMPL.D\093SMPL.D#
Date Acquired: May 27 2010 11:15 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-G MS Vial Number: 3205
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.147**	ug/l	107.35	1.8	450	6	P	
23	**Na**	2	**549.900**	ug/l	27,495.00	1.2	450000	45	P	
24	**Mg**	2	**628.200**	ug/l	31,410.00	1.3	450000	45	P	
27	**Al**	2	**86.720**	ug/l	4,336.00	1.6	450000	45	P	
31	**P**	2	**388.500**	ug/l	19,425.00	1.1	450000	45	P	
39	**K**	2	**478.600**	ug/l	23,930.00	1.8	450000	45	P	
44	**Ca**	2	**592.300**	ug/l	29,615.00	5.9	450000	45	P	
47	**Ti**	2	**102.200**	ug/l	5,110.00	1.3	4500	45	P	
51	**V**	2	**21.100**	ug/l	1,055.00	1.3	4500	45	P	
52	**Cr**	2	**8.653**	ug/l	432.65	2.5	4500	45	P	
54	**Fe**	2	**456.200**	ug/l	22,810.00	1.1	450000	74	P	
55	**Mn**	2	**21.850**	ug/l	1,092.50	1.2	15000	45	P	
59	**Co**	2	**21.820**	ug/l	1,091.00	0.6	4500	45	P	
60	**Ni**	2	**22.150**	ug/l	1,107.50	1.9	15000	45	P	
63	**Cu**	2	**10.910**	ug/l	545.50	2.2	15000	45	P	
66	**Zn**	2	**22.810**	ug/l	1,140.50	1.4	15000	45	P	
75	**As**	2	**80.070**	ug/l	4,003.50	0.4	4500	74	P	
78	**Se**	2	**82.640**	ug/l	4,132.00	3.5	4500	74	P	
88	**Sr**	3	**0.974**	ug/l	48.70	1.7	4500	74	P	
95	**Mo**	3	**107.400**	ug/l	5,370.00	1.1	4500	74	P	
107	**Ag**	3	**12.490**	ug/l	624.50	1.7	450	103	P	
111	**Cd**	3	**2.055**	ug/l	102.75	1.6	900	103	P	
118	**Sn**	3	**106.300**	ug/l	5,315.00	1.0	4500	103	P	
121	**Sb**	3	**61.300**	ug/l	3,065.00	1.1	4500	103	P	
135	**Ba**	3	**84.820**	ug/l	4,241.00	1.5	4500	103	P	
200	**Hg**	3	**1.923**	ug/l	96.15	0.1	45	209	P	
205	**Tl**	3	**80.280**	ug/l	4,014.00	1.8	4500	209	A	
208	**Pb**	3	**21.100**	ug/l	1,055.00	1.3	4500	209	P	
238	**U**	3	**0.000**	ug/l	-0.01	187.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3645884	1.48	5119000	**71.2**	30	-	120	
45	Sc	1	191092	0.90	341400	**56.0**	30	-	120	
45	Sc	2	221996	1.23	273900	**81.0**	30	-	120	
74	Ge	1	167674	1.24	283600	**59.1**	30	-	120	
74	Ge	2	366252	0.86	422600	**86.7**	30	-	120	
74	Ge	3	1437383	0.75	1674000	**85.9**	30	-	120	
103	Rh	2	715074	1.61	814900	**87.7**	30	-	120	
103	Rh	3	1365896	1.31	1535000	**89.0**	30	-	120	
165	Ho	3	2985228	0.47	3236000	**92.3**	30	-	120	
175	Lu	3	3314399	0.95	3584000	**92.5**	30	-	120	
209	Bi	3	7153365	0.61	7619000	**93.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\094SMPL.D\094SMPL.D#
Date Acquired: May 27 2010 11:22 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-H MSD Vial Number: 3206
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.097**	ug/l	104.85	5.1	450	6	P	
23	**Na**	2	**568.700**	ug/l	28,435.00	0.8	450000	45	P	
24	**Mg**	2	**640.400**	ug/l	32,020.00	0.8	450000	45	P	
27	**Al**	2	**83.630**	ug/l	4,181.50	0.6	450000	45	P	
31	**P**	2	**402.300**	ug/l	20,115.00	5.2	450000	45	P	
39	**K**	2	**496.400**	ug/l	24,820.00	2.0	450000	45	P	
44	**Ca**	2	**639.800**	ug/l	31,990.00	0.6	450000	45	P	
47	**Ti**	2	**105.400**	ug/l	5,270.00	1.1	4500	45	P	
51	**V**	2	**21.290**	ug/l	1,064.50	2.1	4500	45	P	
52	**Cr**	2	**8.860**	ug/l	443.00	1.2	4500	45	P	
54	**Fe**	2	**472.800**	ug/l	23,640.00	1.2	450000	74	P	
55	**Mn**	2	**22.420**	ug/l	1,121.00	0.6	15000	45	P	
59	**Co**	2	**22.510**	ug/l	1,125.50	0.9	4500	45	P	
60	**Ni**	2	**22.710**	ug/l	1,135.50	3.7	15000	45	P	
63	**Cu**	2	**11.670**	ug/l	583.50	0.5	15000	45	P	
66	**Zn**	2	**22.400**	ug/l	1,120.00	2.5	15000	45	P	
75	**As**	2	**82.550**	ug/l	4,127.50	1.0	4500	74	P	
78	**Se**	2	**87.380**	ug/l	4,369.00	1.1	4500	74	P	
88	**Sr**	3	**0.995**	ug/l	49.76	4.8	4500	74	P	
95	**Mo**	3	**109.500**	ug/l	5,475.00	0.7	4500	74	P	
107	**Ag**	3	**12.960**	ug/l	648.00	0.5	450	103	P	
111	**Cd**	3	**2.135**	ug/l	106.75	4.6	900	103	P	
118	**Sn**	3	**110.800**	ug/l	5,540.00	1.2	4500	103	P	
121	**Sb**	3	**63.810**	ug/l	3,190.50	1.9	4500	103	P	
135	**Ba**	3	**88.530**	ug/l	4,426.50	2.0	4500	103	P	
200	**Hg**	3	**2.167**	ug/l	108.35	0.1	45	209	P	
205	**Tl**	3	**82.550**	ug/l	4,127.50	0.8	4500	209	A	
208	**Pb**	3	**21.730**	ug/l	1,086.50	0.9	4500	209	P	
238	**U**	3	**0.000**	ug/l	-0.02	162.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3738018	1.63	5119000	**73.0**	30	-	120	
45	Sc	1	188553	1.10	341400	**55.2**	30	-	120	
45	Sc	2	223858	0.08	273900	**81.7**	30	-	120	
74	Ge	1	166899	1.45	283600	**58.9**	30	-	120	
74	Ge	2	369745	0.94	422600	**87.5**	30	-	120	
74	Ge	3	1463319	0.15	1674000	**87.4**	30	-	120	
103	Rh	2	715227	0.64	814900	**87.8**	30	-	120	
103	Rh	3	1359983	1.27	1535000	**88.6**	30	-	120	
165	Ho	3	2967428	1.18	3236000	**91.7**	30	-	120	
175	Lu	3	3330529	0.50	3584000	**92.9**	30	-	120	
209	Bi	3	7156704	0.88	7619000	**93.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\095SMPL.D\095SMPL.D#
Date Acquired: May 27 2010 11:30 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-E PDS Vial Number: 3207
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.180**	ug/l	109.00	2.3	450	6	P	
23	**Na**	2	**558.200**	ug/l	27,910.00	0.9	450000	45	P	
24	**Mg**	2	**638.500**	ug/l	31,925.00	2.0	450000	45	P	
27	**Al**	2	**82.810**	ug/l	4,140.50	1.8	450000	45	P	
31	**P**	2	**389.700**	ug/l	19,485.00	0.4	450000	45	P	
39	**K**	2	**492.800**	ug/l	24,640.00	0.6	450000	45	P	
44	**Ca**	2	**605.700**	ug/l	30,285.00	2.5	450000	45	P	
47	**Ti**	2	**105.100**	ug/l	5,255.00	1.4	4500	45	P	
51	**V**	2	**21.780**	ug/l	1,089.00	1.0	4500	45	P	
52	**Cr**	2	**8.886**	ug/l	444.30	3.8	4500	45	P	
54	**Fe**	2	**462.900**	ug/l	23,145.00	0.2	450000	74	P	
55	**Mn**	2	**22.480**	ug/l	1,124.00	0.4	15000	45	P	
59	**Co**	2	**22.380**	ug/l	1,119.00	0.6	4500	45	P	
60	**Ni**	2	**22.500**	ug/l	1,125.00	1.3	15000	45	P	
63	**Cu**	2	**11.260**	ug/l	563.00	2.1	15000	45	P	
66	**Zn**	2	**22.240**	ug/l	1,112.00	2.2	15000	45	P	
75	**As**	2	**82.450**	ug/l	4,122.50	0.8	4500	74	P	
78	**Se**	2	**89.970**	ug/l	4,498.50	4.2	4500	74	P	
88	**Sr**	3	**1.020**	ug/l	51.00	1.1	4500	74	P	
95	**Mo**	3	**109.900**	ug/l	5,495.00	1.8	4500	74	P	
107	**Ag**	3	**12.870**	ug/l	643.50	0.9	450	103	P	
111	**Cd**	3	**2.103**	ug/l	105.15	4.2	900	103	P	
118	**Sn**	3	**109.900**	ug/l	5,495.00	2.0	4500	103	P	
121	**Sb**	3	**63.440**	ug/l	3,172.00	2.3	4500	103	P	
135	**Ba**	3	**88.150**	ug/l	4,407.50	3.6	4500	103	P	
200	**Hg**	3	**2.165**	ug/l	108.25	1.2	45	209	P	
205	**Tl**	3	**82.280**	ug/l	4,114.00	1.3	4500	209	A	
208	**Pb**	3	**21.690**	ug/l	1,084.50	2.3	4500	209	P	
238	**U**	3	**0.000**	ug/l	-0.02	227.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3764377	0.50	5119000	**73.5**	30	-	120	
45	Sc	1	192631	0.70	341400	**56.4**	30	-	120	
45	Sc	2	227347	0.94	273900	**83.0**	30	-	120	
74	Ge	1	168599	1.03	283600	**59.4**	30	-	120	
74	Ge	2	373966	0.28	422600	**88.5**	30	-	120	
74	Ge	3	1469452	0.30	1674000	**87.8**	30	-	120	
103	Rh	2	722627	1.63	814900	**88.7**	30	-	120	
103	Rh	3	1380069	0.69	1535000	**89.9**	30	-	120	
165	Ho	3	3030507	0.83	3236000	**93.6**	30	-	120	
175	Lu	3	3335013	1.02	3584000	**93.1**	30	-	120	
209	Bi	3	7207560	0.60	7619000	**94.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\096SMPL.D\096SMPL.D#
Date Acquired: May 27 2010 11:37 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64499/20-A Vial Number: 3208
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.113**	ug/l	105.65	1.2	450	6	P	
23	**Na**	2	**420.500**	ug/l	21,025.00	0.8	450000	45	P	
24	**Mg**	2	**414.400**	ug/l	20,720.00	1.1	450000	45	P	
27	**Al**	2	**77.830**	ug/l	3,891.50	2.3	450000	45	P	
31	**P**	2	**354.000**	ug/l	17,700.00	4.1	450000	45	P	
39	**K**	2	**434.800**	ug/l	21,740.00	0.9	450000	45	P	
44	**Ca**	2	**421.100**	ug/l	21,055.00	2.0	450000	45	P	
47	**Ti**	2	**101.100**	ug/l	5,055.00	1.7	4500	45	P	
51	**V**	2	**21.010**	ug/l	1,050.50	0.3	4500	45	P	
52	**Cr**	2	**8.186**	ug/l	409.30	2.0	4500	45	P	
54	**Fe**	2	**449.200**	ug/l	22,460.00	1.2	450000	74	P	
55	**Mn**	2	**21.300**	ug/l	1,065.00	0.9	15000	45	P	
59	**Co**	2	**21.370**	ug/l	1,068.50	0.7	4500	45	P	
60	**Ni**	2	**21.570**	ug/l	1,078.50	1.6	15000	45	P	
63	**Cu**	2	**10.910**	ug/l	545.50	2.5	15000	45	P	
66	**Zn**	2	**21.720**	ug/l	1,086.00	3.0	15000	45	P	
75	**As**	2	**81.010**	ug/l	4,050.50	0.8	4500	74	P	
78	**Se**	2	**78.360**	ug/l	3,918.00	4.2	4500	74	P	
88	**Sr**	3	**0.002**	ug/l	0.12	185.2	4500	74	P	
95	**Mo**	3	**106.500**	ug/l	5,325.00	0.7	4500	74	P	
107	**Ag**	3	**12.450**	ug/l	622.50	1.4	450	103	P	
111	**Cd**	3	**2.100**	ug/l	105.00	4.6	900	103	P	
118	**Sn**	3	**106.800**	ug/l	5,340.00	1.3	4500	103	P	
121	**Sb**	3	**60.530**	ug/l	3,026.50	1.3	4500	103	P	
135	**Ba**	3	**83.710**	ug/l	4,185.50	0.7	4500	103	P	
200	**Hg**	3	**1.587**	ug/l	79.35	1.5	45	209	P	
205	**Tl**	3	**79.970**	ug/l	3,998.50	1.5	4500	209	A	
208	**Pb**	3	**20.950**	ug/l	1,047.50	1.2	4500	209	P	
238	**U**	3	**-0.002**	ug/l	-0.08	8.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3374207	1.62	5119000	**65.9**	30	-	120	
45	Sc	1	183561	0.89	341400	**53.8**	30	-	120	
45	Sc	2	221824	1.76	273900	**81.0**	30	-	120	
74	Ge	1	160856	0.95	283600	**56.7**	30	-	120	
74	Ge	2	369206	1.82	422600	**87.4**	30	-	120	
74	Ge	3	1446739	0.08	1674000	**86.4**	30	-	120	
103	Rh	2	722921	2.22	814900	**88.7**	30	-	120	
103	Rh	3	1375131	1.17	1535000	**89.6**	30	-	120	
165	Ho	3	3014344	1.31	3236000	**93.2**	30	-	120	
175	Lu	3	3416381	0.55	3584000	**95.3**	30	-	120	
209	Bi	3	7261040	1.58	7619000	**95.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\097SMPL.D\097SMPL.D#
Date Acquired: May 27 2010 11:44 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64499/21-A Vial Number: 3209
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.105**	ug/l	105.25	2.6	450	6	P	
23	**Na**	2	**419.800**	ug/l	20,990.00	1.9	450000	45	P	
24	**Mg**	2	**410.200**	ug/l	20,510.00	1.0	450000	45	P	
27	**Al**	2	**78.110**	ug/l	3,905.50	0.2	450000	45	P	
31	**P**	2	**360.500**	ug/l	18,025.00	4.0	450000	45	P	
39	**K**	2	**439.900**	ug/l	21,995.00	1.6	450000	45	P	
44	**Ca**	2	**414.300**	ug/l	20,715.00	4.0	450000	45	P	
47	**Ti**	2	**101.000**	ug/l	5,050.00	0.6	4500	45	P	
51	**V**	2	**21.180**	ug/l	1,059.00	0.6	4500	45	P	
52	**Cr**	2	**8.423**	ug/l	421.15	0.7	4500	45	P	
54	**Fe**	2	**446.000**	ug/l	22,300.00	2.0	450000	74	P	
55	**Mn**	2	**21.540**	ug/l	1,077.00	2.0	15000	45	P	
59	**Co**	2	**21.450**	ug/l	1,072.50	1.6	4500	45	P	
60	**Ni**	2	**21.460**	ug/l	1,073.00	4.8	15000	45	P	
63	**Cu**	2	**11.090**	ug/l	554.50	3.3	15000	45	P	
66	**Zn**	2	**21.560**	ug/l	1,078.00	3.0	15000	45	P	
75	**As**	2	**81.420**	ug/l	4,071.00	0.9	4500	74	P	
78	**Se**	2	**82.680**	ug/l	4,134.00	8.6	4500	74	P	
88	**Sr**	3	**0.012**	ug/l	0.60	31.5	4500	74	P	
95	**Mo**	3	**106.400**	ug/l	5,320.00	1.7	4500	74	P	
107	**Ag**	3	**12.450**	ug/l	622.50	1.4	450	103	P	
111	**Cd**	3	**2.063**	ug/l	103.15	9.2	900	103	P	
118	**Sn**	3	**106.100**	ug/l	5,305.00	1.3	4500	103	P	
121	**Sb**	3	**60.030**	ug/l	3,001.50	0.6	4500	103	P	
135	**Ba**	3	**83.880**	ug/l	4,194.00	0.9	4500	103	P	
200	**Hg**	3	**1.559**	ug/l	77.95	2.2	45	209	P	
205	**Tl**	3	**80.640**	ug/l	4,032.00	1.4	4500	209	A	
208	**Pb**	3	**20.790**	ug/l	1,039.50	2.2	4500	209	P	
238	**U**	3	**-0.001**	ug/l	-0.06	22.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3349102	0.33	5119000	**65.4**	30	-	120	
45	Sc	1	177859	0.69	341400	**52.1**	30	-	120	
45	Sc	2	221115	1.34	273900	**80.7**	30	-	120	
74	Ge	1	153704	1.42	283600	**54.2**	30	-	120	
74	Ge	2	368054	0.23	422600	**87.1**	30	-	120	
74	Ge	3	1444342	0.84	1674000	**86.3**	30	-	120	
103	Rh	2	723055	0.40	814900	**88.7**	30	-	120	
103	Rh	3	1365530	0.72	1535000	**89.0**	30	-	120	
165	Ho	3	3034244	0.66	3236000	**93.8**	30	-	120	
175	Lu	3	3358152	1.43	3584000	**93.7**	30	-	120	
209	Bi	3	7234663	0.98	7619000	**95.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\098SMPL.D\098SMPL.D#
Date Acquired: May 27 2010 11:51 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**54.230**	ug/l	54.23	1.4	450	6	P	
23	**Na**	2	**4904.000**	ug/l	4,904.00	2.2	450000	45	A	
24	**Mg**	2	**4988.000**	ug/l	4,988.00	0.9	450000	45	A	
27	**Al**	2	**488.600**	ug/l	488.60	2.4	450000	45	P	
31	**P**	2	**4909.000**	ug/l	4,909.00	0.6	450000	45	P	
39	**K**	2	**5195.000**	ug/l	5,195.00	1.4	450000	45	A	
44	**Ca**	2	**5210.000**	ug/l	5,210.00	0.2	450000	45	P	
47	**Ti**	2	**52.780**	ug/l	52.78	0.7	4500	45	P	
51	**V**	2	**51.670**	ug/l	51.67	1.2	4500	45	P	
52	**Cr**	2	**52.290**	ug/l	52.29	1.5	4500	45	P	
54	**Fe**	2	**5070.000**	ug/l	5,070.00	0.4	450000	74	P	
55	**Mn**	2	**53.640**	ug/l	53.64	0.8	15000	45	P	
59	**Co**	2	**53.200**	ug/l	53.20	0.9	4500	45	P	
60	**Ni**	2	**53.470**	ug/l	53.47	3.6	15000	45	P	
63	**Cu**	2	**53.580**	ug/l	53.58	1.0	15000	45	P	
66	**Zn**	2	**53.290**	ug/l	53.29	1.6	15000	45	P	
75	**As**	2	**51.690**	ug/l	51.69	1.3	4500	74	P	
78	**Se**	2	**50.120**	ug/l	50.12	3.1	4500	74	P	
88	**Sr**	3	**54.040**	ug/l	54.04	2.2	4500	74	P	
95	**Mo**	3	**54.130**	ug/l	54.13	2.1	4500	74	P	
107	**Ag**	3	**52.000**	ug/l	52.00	0.2	450	103	P	
111	**Cd**	3	**52.080**	ug/l	52.08	1.9	900	103	P	
118	**Sn**	3	**52.870**	ug/l	52.87	1.9	4500	103	P	
121	**Sb**	3	**52.370**	ug/l	52.37	1.2	4500	103	P	
135	**Ba**	3	**53.040**	ug/l	53.04	1.1	4500	103	P	
200	**Hg**	3	**3.264**	ug/l	3.26	1.8	45	209	P	
205	**Tl**	3	**53.070**	ug/l	53.07	1.4	4500	209	P	
208	**Pb**	3	**53.100**	ug/l	53.10	1.6	4500	209	P	
238	**U**	3	**51.920**	ug/l	51.92	2.6	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3523044	1.20	5119000	**68.8**	30	-	120	
45	Sc	1	183017	2.22	341400	**53.6**	30	-	120	
45	Sc	2	229828	0.70	273900	**83.9**	30	-	120	
74	Ge	1	161858	3.12	283600	**57.1**	30	-	120	
74	Ge	2	379230	0.69	422600	**89.7**	30	-	120	
74	Ge	3	1494042	1.63	1674000	**89.2**	30	-	120	
103	Rh	2	718497	0.83	814900	**88.2**	30	-	120	
103	Rh	3	1403076	0.78	1535000	**91.4**	30	-	120	
165	Ho	3	3066196	1.24	3236000	**94.8**	30	-	120	
175	Lu	3	3412388	0.38	3584000	**95.2**	30	-	120	
209	Bi	3	7136907	0.09	7619000	**93.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\099SMPL.D\099SMPL.D#
Date Acquired: May 27 2010 11:58 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.016**	ug/l	0.02	17.0	450	6	P	
23	**Na**	2	**6.261**	ug/l	6.26	13.6	450000	45	P	
24	**Mg**	2	**2.578**	ug/l	2.58	11.9	450000	45	P	
27	**Al**	2	**0.269**	ug/l	0.27	11.7	450000	45	P	
31	**P**	2	**-6.389**	ug/l	-6.39	64.3	450000	45	P	
39	**K**	2	**10.820**	ug/l	10.82	27.4	450000	45	P	
44	**Ca**	2	**3.966**	ug/l	3.97	40.5	450000	45	P	
47	**Ti**	2	**0.018**	ug/l	0.02	106.3	4500	45	P	
51	**V**	2	**-0.061**	ug/l	-0.06	53.6	4500	45	P	
52	**Cr**	2	**0.033**	ug/l	0.03	38.8	4500	45	P	
54	**Fe**	2	**1.894**	ug/l	1.89	26.4	450000	74	P	
55	**Mn**	2	**0.125**	ug/l	0.13	7.3	15000	45	P	
59	**Co**	2	**0.024**	ug/l	0.02	18.3	4500	45	P	
60	**Ni**	2	**0.148**	ug/l	0.15	43.8	15000	45	P	
63	**Cu**	2	**0.026**	ug/l	0.03	27.8	15000	45	P	
66	**Zn**	2	**0.073**	ug/l	0.07	71.2	15000	45	P	
75	**As**	2	**-0.055**	ug/l	-0.06	34.9	4500	74	P	
78	**Se**	2	**0.165**	ug/l	0.16	233.0	4500	74	P	
88	**Sr**	3	**0.007**	ug/l	0.01	59.7	4500	74	P	
95	**Mo**	3	**0.017**	ug/l	0.02	105.4	4500	74	P	
107	**Ag**	3	**0.006**	ug/l	0.01	128.7	450	103	P	
111	**Cd**	3	**0.008**	ug/l	0.01	88.4	900	103	P	
118	**Sn**	3	**0.076**	ug/l	0.08	14.2	4500	103	P	
121	**Sb**	3	**0.035**	ug/l	0.04	13.9	4500	103	P	
135	**Ba**	3	**0.022**	ug/l	0.02	80.0	4500	103	P	
200	**Hg**	3	**0.622**	ug/l	0.62	2.6	45	209	P	
205	**Tl**	3	**0.640**	ug/l	0.64	7.0	4500	209	P	
208	**Pb**	3	**0.014**	ug/l	0.01	30.3	4500	209	P	
238	**U**	3	**0.008**	ug/l	0.01	35.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3364518	1.66	5119000	**65.7**	30	-	120	
45	Sc	1	186274	1.96	341400	**54.6**	30	-	120	
45	Sc	2	230080	0.36	273900	**84.0**	30	-	120	
74	Ge	1	162161	1.91	283600	**57.2**	30	-	120	
74	Ge	2	380527	1.22	422600	**90.0**	30	-	120	
74	Ge	3	1472733	1.06	1674000	**88.0**	30	-	120	
103	Rh	2	744411	1.43	814900	**91.4**	30	-	120	
103	Rh	3	1403615	1.00	1535000	**91.4**	30	-	120	
165	Ho	3	3067805	0.81	3236000	**94.8**	30	-	120	
175	Lu	3	3410210	0.61	3584000	**95.2**	30	-	120	
209	Bi	3	7331702	1.67	7619000	**96.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\100SMPL.D\100SMPL.D#
Date Acquired: May 28 2010 12:05 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-2-B Vial Number: 3301
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.009**	ug/l	0.01	78.0	450	6	P	
23	**Na**	2	**11680.000**	ug/l	11,680.00	1.6	450000	45	A	
24	**Mg**	2	**24900.000**	ug/l	24,900.00	1.7	450000	45	A	
27	**Al**	2	**7.333**	ug/l	7.33	8.7	450000	45	P	
31	**P**	2	**52.440**	ug/l	52.44	5.4	450000	45	P	
39	**K**	2	**2902.000**	ug/l	2,902.00	1.5	450000	45	M	
44	**Ca**	2	**21070.000**	ug/l	21,070.00	0.8	450000	45	P	
47	**Ti**	2	**0.278**	ug/l	0.28	33.0	4500	45	P	
51	**V**	2	**6.630**	ug/l	6.63	4.2	4500	45	P	
52	**Cr**	2	**0.742**	ug/l	0.74	11.0	4500	45	P	
54	**Fe**	2	**47.270**	ug/l	47.27	2.0	450000	74	P	
55	**Mn**	2	**373.500**	ug/l	373.50	1.1	15000	45	P	
59	**Co**	2	**1.025**	ug/l	1.03	1.2	4500	45	P	
60	**Ni**	2	**3.624**	ug/l	3.62	3.1	15000	45	P	
63	**Cu**	2	**0.457**	ug/l	0.46	16.0	15000	45	P	
66	**Zn**	2	**2.294**	ug/l	2.29	9.0	15000	45	P	
75	**As**	2	**4.785**	ug/l	4.79	1.0	4500	74	P	
78	**Se**	2	**0.263**	ug/l	0.26	256.6	4500	74	P	
88	**Sr**	3	**125.800**	ug/l	125.80	1.1	4500	74	A	
95	**Mo**	3	**5.913**	ug/l	5.91	2.6	4500	74	P	
107	**Ag**	3	**0.004**	ug/l	0.00	104.3	450	103	P	
111	**Cd**	3	**0.033**	ug/l	0.03	61.3	900	103	P	
118	**Sn**	3	**0.375**	ug/l	0.38	11.2	4500	103	P	
121	**Sb**	3	**0.148**	ug/l	0.15	19.9	4500	103	P	
135	**Ba**	3	**14.790**	ug/l	14.79	3.1	4500	103	P	
200	**Hg**	3	**0.176**	ug/l	0.18	1.5	45	209	P	
205	**Tl**	3	**0.368**	ug/l	0.37	4.8	4500	209	P	
208	**Pb**	3	**0.033**	ug/l	0.03	9.9	4500	209	P	
238	**U**	3	**0.496**	ug/l	0.50	2.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2764018	2.31	5119000	**54.0**	30	-	120	
45	Sc	1	162599	1.28	341400	**47.6**	30	-	120	
45	Sc	2	204451	1.55	273900	**74.6**	30	-	120	
74	Ge	1	153167	1.43	283600	**54.0**	30	-	120	
74	Ge	2	374828	1.11	422600	**88.7**	30	-	120	
74	Ge	3	1464844	1.60	1674000	**87.5**	30	-	120	
103	Rh	2	642730	1.94	814900	**78.9**	30	-	120	
103	Rh	3	1249398	2.36	1535000	**81.4**	30	-	120	
165	Ho	3	2902099	1.12	3236000	**89.7**	30	-	120	
175	Lu	3	3270918	0.82	3584000	**91.3**	30	-	120	
209	Bi	3	6630748	0.84	7619000	**87.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\101SMPL.D\101SMPL.D#
Date Acquired: May 28 2010 12:12 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-3-B Vial Number: 3302
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.00	106.4	450	6	P	
23	**Na**	2	**7408.000**	ug/l	7,408.00	1.8	450000	45	A	
24	**Mg**	2	**26210.000**	ug/l	26,210.00	1.8	450000	45	A	
27	**Al**	2	**9.477**	ug/l	9.48	4.8	450000	45	P	
31	**P**	2	**31.520**	ug/l	31.52	14.5	450000	45	P	
39	**K**	2	**2842.000**	ug/l	2,842.00	1.8	450000	45	M	
44	**Ca**	2	**21140.000**	ug/l	21,140.00	2.3	450000	45	P	
47	**Ti**	2	**0.465**	ug/l	0.46	5.5	4500	45	P	
51	**V**	2	**9.778**	ug/l	9.78	2.1	4500	45	P	
52	**Cr**	2	**4.186**	ug/l	4.19	3.4	4500	45	P	
54	**Fe**	2	**8.882**	ug/l	8.88	8.3	450000	74	P	
55	**Mn**	2	**1.027**	ug/l	1.03	2.6	15000	45	P	
59	**Co**	2	**0.146**	ug/l	0.15	4.3	4500	45	P	
60	**Ni**	2	**2.158**	ug/l	2.16	1.6	15000	45	P	
63	**Cu**	2	**1.193**	ug/l	1.19	6.4	15000	45	P	
66	**Zn**	2	**1.673**	ug/l	1.67	2.9	15000	45	P	
75	**As**	2	**1.861**	ug/l	1.86	4.0	4500	74	P	
78	**Se**	2	**-0.254**	ug/l	-0.25	172.5	4500	74	P	
88	**Sr**	3	**114.100**	ug/l	114.10	0.9	4500	74	A	
95	**Mo**	3	**0.220**	ug/l	0.22	11.4	4500	74	P	
107	**Ag**	3	**0.022**	ug/l	0.02	38.0	450	103	P	
111	**Cd**	3	**0.009**	ug/l	0.01	216.0	900	103	P	
118	**Sn**	3	**0.319**	ug/l	0.32	9.9	4500	103	P	
121	**Sb**	3	**0.106**	ug/l	0.11	12.3	4500	103	P	
135	**Ba**	3	**11.670**	ug/l	11.67	2.1	4500	103	P	
200	**Hg**	3	**0.192**	ug/l	0.19	3.5	45	209	P	
205	**Tl**	3	**0.252**	ug/l	0.25	3.2	4500	209	P	
208	**Pb**	3	**0.037**	ug/l	0.04	8.3	4500	209	P	
238	**U**	3	**0.632**	ug/l	0.63	2.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2663534	1.10	5119000	**52.0**	30	-	120	
45	Sc	1	161211	1.87	341400	**47.2**	30	-	120	
45	Sc	2	203247	2.05	273900	**74.2**	30	-	120	
74	Ge	1	151976	0.75	283600	**53.6**	30	-	120	
74	Ge	2	381498	0.77	422600	**90.3**	30	-	120	
74	Ge	3	1448838	1.76	1674000	**86.5**	30	-	120	
103	Rh	2	647023	0.51	814900	**79.4**	30	-	120	
103	Rh	3	1247963	0.62	1535000	**81.3**	30	-	120	
165	Ho	3	2918888	1.15	3236000	**90.2**	30	-	120	
175	Lu	3	3246898	0.46	3584000	**90.6**	30	-	120	
209	Bi	3	6594426	0.71	7619000	**86.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\102SMPL.D\102SMPL.D#
Date Acquired: May 28 2010 12:20 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-4-B Vial Number: 3303
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	204.3	450	6	P	
23	**Na**	2	**7307.000**	ug/l	7,307.00	2.2	450000	45	A	
24	**Mg**	2	**14610.000**	ug/l	14,610.00	1.4	450000	45	A	
27	**Al**	2	**7.655**	ug/l	7.66	6.5	450000	45	P	
31	**P**	2	**29.870**	ug/l	29.87	21.8	450000	45	P	
39	**K**	2	**2277.000**	ug/l	2,277.00	0.5	450000	45	P	
44	**Ca**	2	**11390.000**	ug/l	11,390.00	1.8	450000	45	P	
47	**Ti**	2	**0.363**	ug/l	0.36	16.9	4500	45	P	
51	**V**	2	**11.000**	ug/l	11.00	1.3	4500	45	P	
52	**Cr**	2	**0.546**	ug/l	0.55	4.4	4500	45	P	
54	**Fe**	2	**4.824**	ug/l	4.82	30.1	450000	74	P	
55	**Mn**	2	**59.860**	ug/l	59.86	1.0	15000	45	P	
59	**Co**	2	**0.163**	ug/l	0.16	2.8	4500	45	P	
60	**Ni**	2	**3.326**	ug/l	3.33	3.0	15000	45	P	
63	**Cu**	2	**1.919**	ug/l	1.92	6.1	15000	45	P	
66	**Zn**	2	**1.852**	ug/l	1.85	5.1	15000	45	P	
75	**As**	2	**2.791**	ug/l	2.79	4.0	4500	74	P	
78	**Se**	2	**-0.317**	ug/l	-0.32	96.8	4500	74	P	
88	**Sr**	3	**57.990**	ug/l	57.99	4.4	4500	74	P	
95	**Mo**	3	**2.253**	ug/l	2.25	2.2	4500	74	P	
107	**Ag**	3	**0.000**	ug/l	0.00	856.3	450	103	P	
111	**Cd**	3	**0.015**	ug/l	0.01	46.3	900	103	P	
118	**Sn**	3	**0.120**	ug/l	0.12	15.8	4500	103	P	
121	**Sb**	3	**0.146**	ug/l	0.15	6.5	4500	103	P	
135	**Ba**	3	**5.665**	ug/l	5.67	0.4	4500	103	P	
200	**Hg**	3	**0.179**	ug/l	0.18	6.7	45	209	P	
205	**Tl**	3	**0.183**	ug/l	0.18	2.7	4500	209	P	
208	**Pb**	3	**0.025**	ug/l	0.03	11.3	4500	209	P	
238	**U**	3	**0.078**	ug/l	0.08	5.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2677063	0.05	5119000	**52.3**	30	-	120	
45	Sc	1	148997	2.53	341400	**43.6**	30	-	120	
45	Sc	2	197390	1.81	273900	**72.1**	30	-	120	
74	Ge	1	143009	2.22	283600	**50.4**	30	-	120	
74	Ge	2	363444	1.07	422600	**86.0**	30	-	120	
74	Ge	3	1372188	2.70	1674000	**82.0**	30	-	120	
103	Rh	2	633529	1.45	814900	**77.7**	30	-	120	
103	Rh	3	1211541	1.09	1535000	**78.9**	30	-	120	
165	Ho	3	2834281	2.03	3236000	**87.6**	30	-	120	
175	Lu	3	3200710	1.47	3584000	**89.3**	30	-	120	
209	Bi	3	6583712	0.33	7619000	**86.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\103SMPL.D\103SMPL.D#
Date Acquired: May 28 2010 12:27 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-5-B Vial Number: 3304
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	70.6	450	6	P	
23	**Na**	2	**7238.000**	ug/l	7,238.00	0.5	450000	45	A	
24	**Mg**	2	**14260.000**	ug/l	14,260.00	0.3	450000	45	A	
27	**Al**	2	**6.217**	ug/l	6.22	5.7	450000	45	P	
31	**P**	2	**37.190**	ug/l	37.19	24.2	450000	45	P	
39	**K**	2	**2244.000**	ug/l	2,244.00	1.3	450000	45	P	
44	**Ca**	2	**11170.000**	ug/l	11,170.00	1.1	450000	45	P	
47	**Ti**	2	**0.318**	ug/l	0.32	40.3	4500	45	P	
51	**V**	2	**11.030**	ug/l	11.03	1.9	4500	45	P	
52	**Cr**	2	**0.506**	ug/l	0.51	14.6	4500	45	P	
54	**Fe**	2	**4.610**	ug/l	4.61	18.2	450000	74	P	
55	**Mn**	2	**56.100**	ug/l	56.10	0.5	15000	45	P	
59	**Co**	2	**0.151**	ug/l	0.15	9.8	4500	45	P	
60	**Ni**	2	**3.292**	ug/l	3.29	8.7	15000	45	P	
63	**Cu**	2	**1.566**	ug/l	1.57	4.4	15000	45	P	
66	**Zn**	2	**1.424**	ug/l	1.42	18.3	15000	45	P	
75	**As**	2	**2.837**	ug/l	2.84	6.3	4500	74	P	
78	**Se**	2	**-0.401**	ug/l	-0.40	100.5	4500	74	P	
88	**Sr**	3	**56.780**	ug/l	56.78	1.4	4500	74	P	
95	**Mo**	3	**2.197**	ug/l	2.20	3.1	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.01	74.1	450	103	P	
111	**Cd**	3	**0.032**	ug/l	0.03	47.9	900	103	P	
118	**Sn**	3	**0.093**	ug/l	0.09	6.5	4500	103	P	
121	**Sb**	3	**0.126**	ug/l	0.13	18.2	4500	103	P	
135	**Ba**	3	**5.705**	ug/l	5.71	2.3	4500	103	P	
200	**Hg**	3	**0.165**	ug/l	0.16	8.0	45	209	P	
205	**Tl**	3	**0.143**	ug/l	0.14	2.9	4500	209	P	
208	**Pb**	3	**0.012**	ug/l	0.01	43.7	4500	209	P	
238	**U**	3	**0.075**	ug/l	0.07	2.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2660959	0.57	5119000	**52.0**	30	-	120	
45	Sc	1	145792	0.94	341400	**42.7**	30	-	120	
45	Sc	2	197906	1.34	273900	**72.3**	30	-	120	
74	Ge	1	136895	2.35	283600	**48.3**	30	-	120	
74	Ge	2	357354	1.43	422600	**84.6**	30	-	120	
74	Ge	3	1373421	0.12	1674000	**82.0**	30	-	120	
103	Rh	2	626838	1.14	814900	**76.9**	30	-	120	
103	Rh	3	1211051	1.09	1535000	**78.9**	30	-	120	
165	Ho	3	2840987	0.40	3236000	**87.8**	30	-	120	
175	Lu	3	3172339	0.80	3584000	**88.5**	30	-	120	
209	Bi	3	6498283	0.80	7619000	**85.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\104SMPL.D\104SMPL.D#
Date Acquired: May 28 2010 12:34 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-6-B Vial Number: 3305
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	76.0	450	6	P	
23	**Na**	2	**19790.000**	ug/l	19,790.00	1.4	450000	45	A	
24	**Mg**	2	**17130.000**	ug/l	17,130.00	0.7	450000	45	A	
27	**Al**	2	**7.604**	ug/l	7.60	2.5	450000	45	P	
31	**P**	2	**46.360**	ug/l	46.36	23.8	450000	45	P	
39	**K**	2	**3070.000**	ug/l	3,070.00	3.8	450000	45	M	
44	**Ca**	2	**14150.000**	ug/l	14,150.00	0.6	450000	45	P	
47	**Ti**	2	**0.249**	ug/l	0.25	25.0	4500	45	P	
51	**V**	2	**11.730**	ug/l	11.73	1.4	4500	45	P	
52	**Cr**	2	**0.550**	ug/l	0.55	6.5	4500	45	P	
54	**Fe**	2	**31.140**	ug/l	31.14	3.3	450000	74	P	
55	**Mn**	2	**81.050**	ug/l	81.05	0.4	15000	45	P	
59	**Co**	2	**0.113**	ug/l	0.11	2.3	4500	45	P	
60	**Ni**	2	**0.937**	ug/l	0.94	2.0	15000	45	P	
63	**Cu**	2	**0.319**	ug/l	0.32	15.0	15000	45	P	
66	**Zn**	2	**1.216**	ug/l	1.22	9.9	15000	45	P	
75	**As**	2	**3.883**	ug/l	3.88	3.7	4500	74	P	
78	**Se**	2	**-0.401**	ug/l	-0.40	76.8	4500	74	P	
88	**Sr**	3	**69.010**	ug/l	69.01	2.4	4500	74	P	
95	**Mo**	3	**1.255**	ug/l	1.26	7.4	4500	74	P	
107	**Ag**	3	**0.002**	ug/l	0.00	139.8	450	103	P	
111	**Cd**	3	**0.019**	ug/l	0.02	108.0	900	103	P	
118	**Sn**	3	**0.099**	ug/l	0.10	17.0	4500	103	P	
121	**Sb**	3	**0.085**	ug/l	0.09	6.9	4500	103	P	
135	**Ba**	3	**11.130**	ug/l	11.13	3.2	4500	103	P	
200	**Hg**	3	**0.178**	ug/l	0.18	9.0	45	209	P	
205	**Tl**	3	**0.113**	ug/l	0.11	9.5	4500	209	P	
208	**Pb**	3	**0.020**	ug/l	0.02	28.3	4500	209	P	
238	**U**	3	**0.275**	ug/l	0.28	0.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2623079	2.32	5119000	**51.2**	30	-	120	
45	Sc	1	146723	2.05	341400	**43.0**	30	-	120	
45	Sc	2	196498	1.20	273900	**71.7**	30	-	120	
74	Ge	1	136935	0.44	283600	**48.3**	30	-	120	
74	Ge	2	360555	0.80	422600	**85.3**	30	-	120	
74	Ge	3	1368614	2.98	1674000	**81.8**	30	-	120	
103	Rh	2	617695	1.01	814900	**75.8**	30	-	120	
103	Rh	3	1203202	1.04	1535000	**78.4**	30	-	120	
165	Ho	3	2894194	0.87	3236000	**89.4**	30	-	120	
175	Lu	3	3202168	0.75	3584000	**89.3**	30	-	120	
209	Bi	3	6410938	0.79	7619000	**84.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\105SMPL.D\105SMPL.D#
Date Acquired: May 28 2010 12:41 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-7-B Vial Number: 3306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.00	171.8	450	6	P	
23	**Na**	2	**13460.000**	ug/l	13,460.00	1.9	450000	45	A	
24	**Mg**	2	**24890.000**	ug/l	24,890.00	3.3	450000	45	A	
27	**Al**	2	**8.464**	ug/l	8.46	8.1	450000	45	P	
31	**P**	2	**186.100**	ug/l	186.10	10.8	450000	45	P	
39	**K**	2	**2382.000**	ug/l	2,382.00	1.6	450000	45	P	
44	**Ca**	2	**28270.000**	ug/l	28,270.00	1.7	450000	45	P	
47	**Ti**	2	**0.588**	ug/l	0.59	7.4	4500	45	P	
51	**V**	2	**5.308**	ug/l	5.31	7.1	4500	45	P	
52	**Cr**	2	**0.745**	ug/l	0.75	8.3	4500	45	P	
54	**Fe**	2	**740.400**	ug/l	740.40	1.2	450000	74	P	
55	**Mn**	2	**3521.000**	ug/l	3,521.00	2.3	15000	45	A	
59	**Co**	2	**1.232**	ug/l	1.23	3.3	4500	45	P	
60	**Ni**	2	**1.956**	ug/l	1.96	13.3	15000	45	P	
63	**Cu**	2	**0.452**	ug/l	0.45	13.4	15000	45	P	
66	**Zn**	2	**1.927**	ug/l	1.93	12.5	15000	45	P	
75	**As**	2	**22.780**	ug/l	22.78	4.5	4500	74	P	
78	**Se**	2	**0.052**	ug/l	0.05	1051.1	4500	74	P	
88	**Sr**	3	**199.400**	ug/l	199.40	1.1	4500	74	A	
95	**Mo**	3	**1.697**	ug/l	1.70	3.6	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.00	85.2	450	103	P	
111	**Cd**	3	**0.013**	ug/l	0.01	66.1	900	103	P	
118	**Sn**	3	**0.071**	ug/l	0.07	17.1	4500	103	P	
121	**Sb**	3	**0.043**	ug/l	0.04	5.9	4500	103	P	
135	**Ba**	3	**15.530**	ug/l	15.53	0.6	4500	103	P	
200	**Hg**	3	**0.180**	ug/l	0.18	10.9	45	209	P	
205	**Tl**	3	**0.090**	ug/l	0.09	11.6	4500	209	P	
208	**Pb**	3	**0.054**	ug/l	0.05	8.1	4500	209	P	
238	**U**	3	**0.361**	ug/l	0.36	2.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2510463	1.13	5119000	**49.0**	30	-	120	
45	Sc	1	148848	1.91	341400	**43.6**	30	-	120	
45	Sc	2	195755	2.20	273900	**71.5**	30	-	120	
74	Ge	1	137828	1.36	283600	**48.6**	30	-	120	
74	Ge	2	357200	1.73	422600	**84.5**	30	-	120	
74	Ge	3	1368398	0.72	1674000	**81.7**	30	-	120	
103	Rh	2	617046	1.06	814900	**75.7**	30	-	120	
103	Rh	3	1196044	0.59	1535000	**77.9**	30	-	120	
165	Ho	3	2840662	0.68	3236000	**87.8**	30	-	120	
175	Lu	3	3199509	1.28	3584000	**89.3**	30	-	120	
209	Bi	3	6404370	0.25	7619000	**84.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\106SMPL.D\106SMPL.D#
Date Acquired: May 28 2010 12:48 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19439-E-1-A Vial Number: 3307
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.015**	ug/l	0.07	26.0	450	6	P	
23	**Na**	2	**16680.000**	ug/l	83,400.00	1.1	450000	45	A	
24	**Mg**	2	**13910.000**	ug/l	69,550.00	1.0	450000	45	A	
27	**Al**	2	**254.500**	ug/l	1,272.50	2.7	450000	45	P	
31	**P**	2	**9.509**	ug/l	47.55	16.7	450000	45	P	
39	**K**	2	**4003.000**	ug/l	20,015.00	0.4	450000	45	A	
44	**Ca**	2	**31860.000**	ug/l	159,300.00	0.3	450000	45	P	
47	**Ti**	2	**15.960**	ug/l	79.80	7.5	4500	45	P	
51	**V**	2	**1.779**	ug/l	8.90	0.6	4500	45	P	
52	**Cr**	2	**0.374**	ug/l	1.87	3.7	4500	45	P	
54	**Fe**	2	**321.700**	ug/l	1,608.50	2.3	450000	74	P	
55	**Mn**	2	**220.800**	ug/l	1,104.00	0.5	15000	45	P	
59	**Co**	2	**0.372**	ug/l	1.86	4.2	4500	45	P	
60	**Ni**	2	**1.295**	ug/l	6.48	7.0	15000	45	P	
63	**Cu**	2	**1.099**	ug/l	5.50	0.6	15000	45	P	
66	**Zn**	2	**1.532**	ug/l	7.66	3.3	15000	45	P	
75	**As**	2	**0.415**	ug/l	2.08	9.7	4500	74	P	
78	**Se**	2	**0.024**	ug/l	0.12	1094.3	4500	74	P	
88	**Sr**	3	**307.200**	ug/l	1,536.00	0.4	4500	74	A	
95	**Mo**	3	**1.584**	ug/l	7.92	2.8	4500	74	P	
107	**Ag**	3	**0.002**	ug/l	0.01	177.5	450	103	P	
111	**Cd**	3	**0.024**	ug/l	0.12	48.5	900	103	P	
118	**Sn**	3	**0.032**	ug/l	0.16	13.2	4500	103	P	
121	**Sb**	3	**0.071**	ug/l	0.36	12.4	4500	103	P	
135	**Ba**	3	**51.090**	ug/l	255.45	0.8	4500	103	P	
200	**Hg**	3	**0.345**	ug/l	1.72	3.1	45	209	P	
205	**Tl**	3	**0.069**	ug/l	0.35	1.8	4500	209	P	
208	**Pb**	3	**0.255**	ug/l	1.27	6.3	4500	209	P	
238	**U**	3	**5.300**	ug/l	26.50	1.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3203680	1.05	5119000	**62.6**	30	-	120	
45	Sc	1	168336	0.37	341400	**49.3**	30	-	120	
45	Sc	2	220200	0.11	273900	**80.4**	30	-	120	
74	Ge	1	148093	1.88	283600	**52.2**	30	-	120	
74	Ge	2	368076	0.65	422600	**87.1**	30	-	120	
74	Ge	3	1429379	0.68	1674000	**85.4**	30	-	120	
103	Rh	2	675518	1.31	814900	**82.9**	30	-	120	
103	Rh	3	1305146	1.27	1535000	**85.0**	30	-	120	
165	Ho	3	3075171	0.67	3236000	**95.0**	30	-	120	
175	Lu	3	3400399	0.76	3584000	**94.9**	30	-	120	
209	Bi	3	6885431	0.18	7619000	**90.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\107SMPL.D\107SMPL.D#
Date Acquired: May 28 2010 12:55 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19439-E-2-A Vial Number: 3308
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.00	240.5	450	6	P	
23	**Na**	2	**19900.000**	ug/l	99,500.00	0.8	450000	45	A	
24	**Mg**	2	**9675.000**	ug/l	48,375.00	1.0	450000	45	A	
27	**Al**	2	**2.378**	ug/l	11.89	20.4	450000	45	P	
31	**P**	2	**1.062**	ug/l	5.31	245.1	450000	45	P	
39	**K**	2	**915.800**	ug/l	4,579.00	0.5	450000	45	P	
44	**Ca**	2	**21140.000**	ug/l	105,700.00	1.1	450000	45	P	
47	**Ti**	2	**0.150**	ug/l	0.75	32.6	4500	45	P	
51	**V**	2	**5.396**	ug/l	26.98	5.3	4500	45	P	
52	**Cr**	2	**0.090**	ug/l	0.45	8.5	4500	45	P	
54	**Fe**	2	**1.792**	ug/l	8.96	16.8	450000	74	P	
55	**Mn**	2	**9.074**	ug/l	45.37	1.0	15000	45	P	
59	**Co**	2	**0.079**	ug/l	0.40	3.7	4500	45	P	
60	**Ni**	2	**0.947**	ug/l	4.73	3.7	15000	45	P	
63	**Cu**	2	**1.080**	ug/l	5.40	14.2	15000	45	P	
66	**Zn**	2	**1.489**	ug/l	7.45	8.8	15000	45	P	
75	**As**	2	**1.380**	ug/l	6.90	4.9	4500	74	P	
78	**Se**	2	**-0.411**	ug/l	-2.06	96.2	4500	74	P	
88	**Sr**	3	**141.900**	ug/l	709.50	1.2	4500	74	A	
95	**Mo**	3	**1.454**	ug/l	7.27	1.4	4500	74	P	
107	**Ag**	3	**-0.002**	ug/l	-0.01	114.7	450	103	P	
111	**Cd**	3	**0.104**	ug/l	0.52	15.8	900	103	P	
118	**Sn**	3	**0.038**	ug/l	0.19	25.0	4500	103	P	
121	**Sb**	3	**0.072**	ug/l	0.36	4.5	4500	103	P	
135	**Ba**	3	**17.390**	ug/l	86.95	1.1	4500	103	P	
200	**Hg**	3	**0.360**	ug/l	1.80	7.5	45	209	P	
205	**Tl**	3	**0.054**	ug/l	0.27	15.9	4500	209	P	
208	**Pb**	3	**0.047**	ug/l	0.23	6.0	4500	209	P	
238	**U**	3	**3.998**	ug/l	19.99	1.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3268715	1.45	5119000	**63.9**	30	-	120	
45	Sc	1	167422	1.51	341400	**49.0**	30	-	120	
45	Sc	2	224367	0.29	273900	**81.9**	30	-	120	
74	Ge	1	147233	0.67	283600	**51.9**	30	-	120	
74	Ge	2	370369	0.25	422600	**87.6**	30	-	120	
74	Ge	3	1459816	2.12	1674000	**87.2**	30	-	120	
103	Rh	2	683800	1.69	814900	**83.9**	30	-	120	
103	Rh	3	1322267	0.69	1535000	**86.1**	30	-	120	
165	Ho	3	3063441	0.46	3236000	**94.7**	30	-	120	
175	Lu	3	3419526	0.38	3584000	**95.4**	30	-	120	
209	Bi	3	6909696	0.27	7619000	**90.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\108SMPL.D\108SMPL.D#
Date Acquired: May 28 2010 01:03 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-1-A Vial Number: 3309
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.00	319.6	450	6	P	
23	**Na**	2	**16130.000**	ug/l	80,650.00	1.8	450000	45	A	
24	**Mg**	2	**7041.000**	ug/l	35,205.00	2.2	450000	45	A	
27	**Al**	2	**8.616**	ug/l	43.08	4.1	450000	45	P	
31	**P**	2	**-0.945**	ug/l	-4.73	145.5	450000	45	P	
39	**K**	2	**1574.000**	ug/l	7,870.00	1.9	450000	45	P	
44	**Ca**	2	**22930.000**	ug/l	114,650.00	2.5	450000	45	P	
47	**Ti**	2	**0.179**	ug/l	0.89	9.4	4500	45	P	
51	**V**	2	**3.289**	ug/l	16.45	4.6	4500	45	P	
52	**Cr**	2	**0.103**	ug/l	0.52	27.9	4500	45	P	
54	**Fe**	2	**3.685**	ug/l	18.43	15.1	450000	74	P	
55	**Mn**	2	**9.175**	ug/l	45.88	3.6	15000	45	P	
59	**Co**	2	**0.064**	ug/l	0.32	2.9	4500	45	P	
60	**Ni**	2	**0.645**	ug/l	3.23	19.5	15000	45	P	
63	**Cu**	2	**1.031**	ug/l	5.16	2.7	15000	45	P	
66	**Zn**	2	**1.051**	ug/l	5.26	16.5	15000	45	P	
75	**As**	2	**1.235**	ug/l	6.18	5.4	4500	74	P	
78	**Se**	2	**0.098**	ug/l	0.49	303.3	4500	74	P	
88	**Sr**	3	**126.300**	ug/l	631.50	1.8	4500	74	A	
95	**Mo**	3	**0.982**	ug/l	4.91	2.2	4500	74	P	
107	**Ag**	3	**-0.002**	ug/l	-0.01	34.2	450	103	P	
111	**Cd**	3	**0.021**	ug/l	0.11	32.0	900	103	P	
118	**Sn**	3	**0.090**	ug/l	0.45	20.0	4500	103	P	
121	**Sb**	3	**0.056**	ug/l	0.28	11.7	4500	103	P	
135	**Ba**	3	**23.740**	ug/l	118.70	3.3	4500	103	P	
200	**Hg**	3	**0.392**	ug/l	1.96	1.0	45	209	P	
205	**Tl**	3	**0.042**	ug/l	0.21	15.8	4500	209	P	
208	**Pb**	3	**0.016**	ug/l	0.08	10.7	4500	209	P	
238	**U**	3	**3.419**	ug/l	17.10	1.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3305976	3.93	5119000	**64.6**	30	-	120	
45	Sc	1	172153	0.61	341400	**50.4**	30	-	120	
45	Sc	2	225435	1.99	273900	**82.3**	30	-	120	
74	Ge	1	152304	1.22	283600	**53.7**	30	-	120	
74	Ge	2	373425	0.68	422600	**88.4**	30	-	120	
74	Ge	3	1492709	1.95	1674000	**89.2**	30	-	120	
103	Rh	2	701327	0.90	814900	**86.1**	30	-	120	
103	Rh	3	1346082	1.33	1535000	**87.7**	30	-	120	
165	Ho	3	3063200	0.26	3236000	**94.7**	30	-	120	
175	Lu	3	3396516	0.72	3584000	**94.8**	30	-	120	
209	Bi	3	7067409	0.94	7619000	**92.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\109SMPL.D\109SMPL.D#
Date Acquired: May 28 2010 01:10 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-2-A Vial Number: 3310
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.02	103.1	450	6	P	
23	**Na**	2	**6789.000**	ug/l	33,945.00	1.1	450000	45	A	
24	**Mg**	2	**9424.000**	ug/l	47,120.00	1.5	450000	45	A	
27	**Al**	2	**5.676**	ug/l	28.38	10.2	450000	45	P	
31	**P**	2	**43.750**	ug/l	218.75	6.5	450000	45	P	
39	**K**	2	**2080.000**	ug/l	10,400.00	0.6	450000	45	P	
44	**Ca**	2	**18010.000**	ug/l	90,050.00	1.0	450000	45	P	
47	**Ti**	2	**0.420**	ug/l	2.10	7.9	4500	45	P	
51	**V**	2	**0.530**	ug/l	2.65	14.2	4500	45	P	
52	**Cr**	2	**0.071**	ug/l	0.35	34.3	4500	45	P	
54	**Fe**	2	**1168.000**	ug/l	5,840.00	0.9	450000	74	P	
55	**Mn**	2	**1224.000**	ug/l	6,120.00	0.4	15000	45	A	
59	**Co**	2	**0.357**	ug/l	1.78	3.5	4500	45	P	
60	**Ni**	2	**1.229**	ug/l	6.15	8.5	15000	45	P	
63	**Cu**	2	**0.052**	ug/l	0.26	62.4	15000	45	P	
66	**Zn**	2	**0.837**	ug/l	4.19	15.8	15000	45	P	
75	**As**	2	**4.021**	ug/l	20.11	3.1	4500	74	P	
78	**Se**	2	**-0.077**	ug/l	-0.38	191.4	4500	74	P	
88	**Sr**	3	**127.900**	ug/l	639.50	1.0	4500	74	A	
95	**Mo**	3	**1.118**	ug/l	5.59	4.4	4500	74	P	
107	**Ag**	3	**-0.001**	ug/l	0.00	76.1	450	103	P	
111	**Cd**	3	**0.006**	ug/l	0.03	113.6	900	103	P	
118	**Sn**	3	**0.029**	ug/l	0.14	6.5	4500	103	P	
121	**Sb**	3	**0.016**	ug/l	0.08	32.6	4500	103	P	
135	**Ba**	3	**32.450**	ug/l	162.25	3.0	4500	103	P	
200	**Hg**	3	**0.316**	ug/l	1.58	5.1	45	209	P	
205	**Tl**	3	**0.030**	ug/l	0.15	18.1	4500	209	P	
208	**Pb**	3	**0.011**	ug/l	0.05	23.8	4500	209	P	
238	**U**	3	**0.511**	ug/l	2.56	1.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3297505	0.50	5119000	**64.4**	30	-	120	
45	Sc	1	181113	1.38	341400	**53.0**	30	-	120	
45	Sc	2	227648	0.86	273900	**83.1**	30	-	120	
74	Ge	1	158623	2.63	283600	**55.9**	30	-	120	
74	Ge	2	375349	1.17	422600	**88.8**	30	-	120	
74	Ge	3	1487475	0.16	1674000	**88.9**	30	-	120	
103	Rh	2	703260	1.18	814900	**86.3**	30	-	120	
103	Rh	3	1354958	1.70	1535000	**88.3**	30	-	120	
165	Ho	3	3054120	1.51	3236000	**94.4**	30	-	120	
175	Lu	3	3409881	0.24	3584000	**95.1**	30	-	120	
209	Bi	3	7013806	0.79	7619000	**92.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\110SMPL.D\110SMPL.D#
Date Acquired: May 28 2010 01:17 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**54.790**	ug/l	54.79	1.4	450	6	P	
23	**Na**	2	**4915.000**	ug/l	4,915.00	0.9	450000	45	A	
24	**Mg**	2	**5030.000**	ug/l	5,030.00	2.0	450000	45	A	
27	**Al**	2	**494.400**	ug/l	494.40	0.1	450000	45	P	
31	**P**	2	**4908.000**	ug/l	4,908.00	1.2	450000	45	P	
39	**K**	2	**5259.000**	ug/l	5,259.00	2.2	450000	45	A	
44	**Ca**	2	**5226.000**	ug/l	5,226.00	1.3	450000	45	P	
47	**Ti**	2	**51.980**	ug/l	51.98	1.5	4500	45	P	
51	**V**	2	**52.220**	ug/l	52.22	0.8	4500	45	P	
52	**Cr**	2	**52.040**	ug/l	52.04	0.6	4500	45	P	
54	**Fe**	2	**5107.000**	ug/l	5,107.00	1.3	450000	74	P	
55	**Mn**	2	**54.060**	ug/l	54.06	0.3	15000	45	P	
59	**Co**	2	**53.210**	ug/l	53.21	0.8	4500	45	P	
60	**Ni**	2	**53.540**	ug/l	53.54	1.2	15000	45	P	
63	**Cu**	2	**53.570**	ug/l	53.57	1.8	15000	45	P	
66	**Zn**	2	**54.090**	ug/l	54.09	3.6	15000	45	P	
75	**As**	2	**51.630**	ug/l	51.63	0.8	4500	74	P	
78	**Se**	2	**51.640**	ug/l	51.64	1.4	4500	74	P	
88	**Sr**	3	**53.930**	ug/l	53.93	1.0	4500	74	P	
95	**Mo**	3	**53.510**	ug/l	53.51	0.9	4500	74	P	
107	**Ag**	3	**52.610**	ug/l	52.61	1.3	450	103	P	
111	**Cd**	3	**53.190**	ug/l	53.19	1.6	900	103	P	
118	**Sn**	3	**52.910**	ug/l	52.91	1.7	4500	103	P	
121	**Sb**	3	**53.240**	ug/l	53.24	1.3	4500	103	P	
135	**Ba**	3	**53.930**	ug/l	53.93	1.1	4500	103	P	
200	**Hg**	3	**2.967**	ug/l	2.97	0.7	45	209	P	
205	**Tl**	3	**52.200**	ug/l	52.20	1.5	4500	209	P	
208	**Pb**	3	**52.780**	ug/l	52.78	1.7	4500	209	P	
238	**U**	3	**51.550**	ug/l	51.55	1.7	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3551934	2.36	5119000	**69.4**	30	-	120	
45	Sc	1	180625	1.45	341400	**52.9**	30	-	120	
45	Sc	2	234181	0.86	273900	**85.5**	30	-	120	
74	Ge	1	157362	0.32	283600	**55.5**	30	-	120	
74	Ge	2	382744	0.44	422600	**90.6**	30	-	120	
74	Ge	3	1539906	0.59	1674000	**92.0**	30	-	120	
103	Rh	2	726195	1.25	814900	**89.1**	30	-	120	
103	Rh	3	1410816	0.49	1535000	**91.9**	30	-	120	
165	Ho	3	3129227	1.03	3236000	**96.7**	30	-	120	
175	Lu	3	3472104	0.50	3584000	**96.9**	30	-	120	
209	Bi	3	7243321	0.57	7619000	**95.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\111SMPL.D\111SMPL.D#
Date Acquired: May 28 2010 01:24 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.012**	ug/l	0.01	45.1	450	6	P	
23	**Na**	2	**7.854**	ug/l	7.85	33.3	450000	45	P	
24	**Mg**	2	**2.762**	ug/l	2.76	13.1	450000	45	P	
27	**Al**	2	**0.762**	ug/l	0.76	33.4	450000	45	P	
31	**P**	2	**-4.267**	ug/l	-4.27	149.5	450000	45	P	
39	**K**	2	**19.610**	ug/l	19.61	28.8	450000	45	P	
44	**Ca**	2	**4.333**	ug/l	4.33	35.9	450000	45	P	
47	**Ti**	2	**0.074**	ug/l	0.07	23.0	4500	45	P	
51	**V**	2	**-0.025**	ug/l	-0.02	146.9	4500	45	P	
52	**Cr**	2	**-0.009**	ug/l	-0.01	290.1	4500	45	P	
54	**Fe**	2	**1.624**	ug/l	1.62	19.9	450000	74	P	
55	**Mn**	2	**0.212**	ug/l	0.21	10.1	15000	45	P	
59	**Co**	2	**0.018**	ug/l	0.02	30.0	4500	45	P	
60	**Ni**	2	**0.122**	ug/l	0.12	52.8	15000	45	P	
63	**Cu**	2	**0.011**	ug/l	0.01	57.1	15000	45	P	
66	**Zn**	2	**0.074**	ug/l	0.07	47.7	15000	45	P	
75	**As**	2	**-0.046**	ug/l	-0.05	57.0	4500	74	P	
78	**Se**	2	**0.056**	ug/l	0.06	1103.0	4500	74	P	
88	**Sr**	3	**0.011**	ug/l	0.01	20.1	4500	74	P	
95	**Mo**	3	**0.015**	ug/l	0.01	24.0	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.01	70.8	450	103	P	
111	**Cd**	3	**0.004**	ug/l	0.00	236.2	900	103	P	
118	**Sn**	3	**0.023**	ug/l	0.02	6.0	4500	103	P	
121	**Sb**	3	**0.013**	ug/l	0.01	15.6	4500	103	P	
135	**Ba**	3	**0.005**	ug/l	0.01	65.8	4500	103	P	
200	**Hg**	3	**0.403**	ug/l	0.40	3.2	45	209	P	
205	**Tl**	3	**0.375**	ug/l	0.38	2.8	4500	209	P	
208	**Pb**	3	**0.012**	ug/l	0.01	35.4	4500	209	P	
238	**U**	3	**0.006**	ug/l	0.01	56.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3569564	2.08	5119000	**69.7**	30	-	120	
45	Sc	1	177489	0.21	341400	**52.0**	30	-	120	
45	Sc	2	235042	1.17	273900	**85.8**	30	-	120	
74	Ge	1	154115	0.48	283600	**54.3**	30	-	120	
74	Ge	2	392497	0.19	422600	**92.9**	30	-	120	
74	Ge	3	1543168	0.68	1674000	**92.2**	30	-	120	
103	Rh	2	760942	0.77	814900	**93.4**	30	-	120	
103	Rh	3	1450776	0.96	1535000	**94.5**	30	-	120	
165	Ho	3	3121776	0.93	3236000	**96.5**	30	-	120	
175	Lu	3	3414452	0.42	3584000	**95.3**	30	-	120	
209	Bi	3	7408655	0.21	7619000	**97.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\112SMPL.D\112SMPL.D#
Date Acquired: May 28 2010 01:31 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-3-A Vial Number: 3401
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.013**	ug/l	0.07	50.4	450	6	P	
23	**Na**	2	**38300.000**	ug/l	191,500.00	1.5	450000	45	A	
24	**Mg**	2	**1884.000**	ug/l	9,420.00	1.0	450000	45	P	
27	**Al**	2	**165.800**	ug/l	829.00	2.1	450000	45	P	
31	**P**	2	**35.060**	ug/l	175.30	22.3	450000	45	P	
39	**K**	2	**1177.000**	ug/l	5,885.00	0.6	450000	45	P	
44	**Ca**	2	**6673.000**	ug/l	33,365.00	1.6	450000	45	P	
47	**Ti**	2	**7.076**	ug/l	35.38	9.0	4500	45	P	
51	**V**	2	**16.480**	ug/l	82.40	1.8	4500	45	P	
52	**Cr**	2	**0.786**	ug/l	3.93	4.0	4500	45	P	
54	**Fe**	2	**172.200**	ug/l	861.00	3.5	450000	74	P	
55	**Mn**	2	**8.120**	ug/l	40.60	0.4	15000	45	P	
59	**Co**	2	**0.128**	ug/l	0.64	6.7	4500	45	P	
60	**Ni**	2	**0.475**	ug/l	2.37	24.3	15000	45	P	
63	**Cu**	2	**0.685**	ug/l	3.42	1.4	15000	45	P	
66	**Zn**	2	**1.031**	ug/l	5.16	4.6	15000	45	P	
75	**As**	2	**15.460**	ug/l	77.30	0.7	4500	74	P	
78	**Se**	2	**0.149**	ug/l	0.75	623.2	4500	74	P	
88	**Sr**	3	**38.250**	ug/l	191.25	1.7	4500	74	P	
95	**Mo**	3	**8.363**	ug/l	41.82	3.5	4500	74	P	
107	**Ag**	3	**0.006**	ug/l	0.03	32.1	450	103	P	
111	**Cd**	3	**0.010**	ug/l	0.05	273.9	900	103	P	
118	**Sn**	3	**0.044**	ug/l	0.22	9.8	4500	103	P	
121	**Sb**	3	**0.142**	ug/l	0.71	8.0	4500	103	P	
135	**Ba**	3	**16.150**	ug/l	80.75	1.2	4500	103	P	
200	**Hg**	3	**0.276**	ug/l	1.38	4.7	45	209	P	
205	**Tl**	3	**0.150**	ug/l	0.75	2.9	4500	209	P	
208	**Pb**	3	**0.159**	ug/l	0.79	6.0	4500	209	P	
238	**U**	3	**5.219**	ug/l	26.10	1.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3239524	2.03	5119000	**63.3**	30	-	120	
45	Sc	1	177225	2.48	341400	**51.9**	30	-	120	
45	Sc	2	229694	1.73	273900	**83.9**	30	-	120	
74	Ge	1	154859	1.19	283600	**54.6**	30	-	120	
74	Ge	2	385404	0.78	422600	**91.2**	30	-	120	
74	Ge	3	1514110	3.19	1674000	**90.4**	30	-	120	
103	Rh	2	708166	1.76	814900	**86.9**	30	-	120	
103	Rh	3	1358630	2.18	1535000	**88.5**	30	-	120	
165	Ho	3	3082939	1.13	3236000	**95.3**	30	-	120	
175	Lu	3	3414361	0.67	3584000	**95.3**	30	-	120	
209	Bi	3	7114725	1.53	7619000	**93.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\113SMPL.D\113SMPL.D#
Date Acquired: May 28 2010 01:38 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-4-A Vial Number: 3402
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.02	23.9	450	6	P	
23	**Na**	2	**23370.000**	ug/l	116,850.00	1.6	450000	45	A	
24	**Mg**	2	**13060.000**	ug/l	65,300.00	2.1	450000	45	A	
27	**Al**	2	**17.480**	ug/l	87.40	5.7	450000	45	P	
31	**P**	2	**5.893**	ug/l	29.47	74.5	450000	45	P	
39	**K**	2	**5870.000**	ug/l	29,350.00	1.0	450000	45	A	
44	**Ca**	2	**29390.000**	ug/l	146,950.00	2.0	450000	45	P	
47	**Ti**	2	**1.537**	ug/l	7.69	12.9	4500	45	P	
51	**V**	2	**1.907**	ug/l	9.54	8.0	4500	45	P	
52	**Cr**	2	**0.127**	ug/l	0.63	31.4	4500	45	P	
54	**Fe**	2	**19.600**	ug/l	98.00	7.6	450000	74	P	
55	**Mn**	2	**127.300**	ug/l	636.50	0.8	15000	45	P	
59	**Co**	2	**0.691**	ug/l	3.45	2.0	4500	45	P	
60	**Ni**	2	**5.601**	ug/l	28.01	5.3	15000	45	P	
63	**Cu**	2	**1.954**	ug/l	9.77	1.9	15000	45	P	
66	**Zn**	2	**1.592**	ug/l	7.96	2.8	15000	45	P	
75	**As**	2	**0.621**	ug/l	3.11	19.7	4500	74	P	
78	**Se**	2	**0.006**	ug/l	0.03	4213.8	4500	74	P	
88	**Sr**	3	**238.800**	ug/l	1,194.00	1.3	4500	74	A	
95	**Mo**	3	**7.080**	ug/l	35.40	0.6	4500	74	P	
107	**Ag**	3	**0.002**	ug/l	0.01	178.8	450	103	P	
111	**Cd**	3	**0.101**	ug/l	0.51	12.0	900	103	P	
118	**Sn**	3	**0.039**	ug/l	0.19	43.5	4500	103	P	
121	**Sb**	3	**0.154**	ug/l	0.77	4.9	4500	103	P	
135	**Ba**	3	**39.760**	ug/l	198.80	2.4	4500	103	P	
200	**Hg**	3	**0.271**	ug/l	1.36	2.4	45	209	P	
205	**Tl**	3	**0.099**	ug/l	0.49	6.8	4500	209	P	
208	**Pb**	3	**0.122**	ug/l	0.61	4.4	4500	209	P	
238	**U**	3	**6.717**	ug/l	33.59	0.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3310432	0.91	5119000	**64.7**	30	-	120	
45	Sc	1	173935	0.95	341400	**50.9**	30	-	120	
45	Sc	2	224143	1.62	273900	**81.8**	30	-	120	
74	Ge	1	150688	0.71	283600	**53.1**	30	-	120	
74	Ge	2	376290	1.26	422600	**89.0**	30	-	120	
74	Ge	3	1480841	0.31	1674000	**88.5**	30	-	120	
103	Rh	2	686448	2.13	814900	**84.2**	30	-	120	
103	Rh	3	1339115	0.85	1535000	**87.2**	30	-	120	
165	Ho	3	3056862	0.24	3236000	**94.5**	30	-	120	
175	Lu	3	3375010	0.82	3584000	**94.2**	30	-	120	
209	Bi	3	6837098	1.41	7619000	**89.7**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\114SMPL.D\114SMPL.D#
Date Acquired: May 28 2010 01:45 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19402-H-2-A Vial Number: 3403
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.000**	ug/l	0.00	599.4	450	6	P	
23	**Na**	2	**5209.000**	ug/l	26,045.00	2.1	450000	45	A	
24	**Mg**	2	**3791.000**	ug/l	18,955.00	1.7	450000	45	A	
27	**Al**	2	**1.721**	ug/l	8.61	12.2	450000	45	P	
31	**P**	2	**2.984**	ug/l	14.92	9.4	450000	45	P	
39	**K**	2	**922.700**	ug/l	4,613.50	1.3	450000	45	P	
44	**Ca**	2	**13660.000**	ug/l	68,300.00	0.8	450000	45	P	
47	**Ti**	2	**0.057**	ug/l	0.28	16.1	4500	45	P	
51	**V**	2	**2.124**	ug/l	10.62	4.5	4500	45	P	
52	**Cr**	2	**0.070**	ug/l	0.35	85.5	4500	45	P	
54	**Fe**	2	**2.712**	ug/l	13.56	16.5	450000	74	P	
55	**Mn**	2	**36.120**	ug/l	180.60	0.4	15000	45	P	
59	**Co**	2	**0.059**	ug/l	0.29	13.0	4500	45	P	
60	**Ni**	2	**0.835**	ug/l	4.17	7.5	15000	45	P	
63	**Cu**	2	**0.517**	ug/l	2.58	2.5	15000	45	P	
66	**Zn**	2	**3.217**	ug/l	16.09	8.2	15000	45	P	
75	**As**	2	**0.505**	ug/l	2.52	6.6	4500	74	P	
78	**Se**	2	**-0.337**	ug/l	-1.68	42.2	4500	74	P	
88	**Sr**	3	**69.430**	ug/l	347.15	1.3	4500	74	P	
95	**Mo**	3	**0.689**	ug/l	3.45	7.5	4500	74	P	
107	**Ag**	3	**-0.002**	ug/l	-0.01	86.6	450	103	P	
111	**Cd**	3	**0.006**	ug/l	0.03	112.5	900	103	P	
118	**Sn**	3	**0.018**	ug/l	0.09	69.4	4500	103	P	
121	**Sb**	3	**0.025**	ug/l	0.13	31.3	4500	103	P	
135	**Ba**	3	**19.060**	ug/l	95.30	2.8	4500	103	P	
200	**Hg**	3	**0.253**	ug/l	1.27	3.4	45	209	P	
205	**Tl**	3	**0.069**	ug/l	0.35	8.3	4500	209	P	
208	**Pb**	3	**0.516**	ug/l	2.58	1.2	4500	209	P	
238	**U**	3	**0.818**	ug/l	4.09	2.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3269546	0.82	5119000	**63.9**	30	-	120	
45	Sc	1	179985	1.36	341400	**52.7**	30	-	120	
45	Sc	2	228862	1.19	273900	**83.6**	30	-	120	
74	Ge	1	155290	2.23	283600	**54.8**	30	-	120	
74	Ge	2	379080	1.28	422600	**89.7**	30	-	120	
74	Ge	3	1490988	0.96	1674000	**89.1**	30	-	120	
103	Rh	2	710524	1.09	814900	**87.2**	30	-	120	
103	Rh	3	1368403	1.58	1535000	**89.1**	30	-	120	
165	Ho	3	3073944	0.57	3236000	**95.0**	30	-	120	
175	Lu	3	3448063	1.09	3584000	**96.2**	30	-	120	
209	Bi	3	7150862	0.53	7619000	**93.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\115SMPL.D\115SMPL.D#
Date Acquired: May 28 2010 01:53 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19402-H-3-A Vial Number: 3404
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.00	148.0	450	6	P	
23	**Na**	2	**5099.000**	ug/l	25,495.00	0.4	450000	45	A	
24	**Mg**	2	**3717.000**	ug/l	18,585.00	1.2	450000	45	A	
27	**Al**	2	**3.049**	ug/l	15.25	5.7	450000	45	P	
31	**P**	2	**1.953**	ug/l	9.77	330.6	450000	45	P	
39	**K**	2	**890.200**	ug/l	4,451.00	1.1	450000	45	P	
44	**Ca**	2	**13470.000**	ug/l	67,350.00	0.4	450000	45	P	
47	**Ti**	2	**0.113**	ug/l	0.56	27.7	4500	45	P	
51	**V**	2	**2.117**	ug/l	10.59	9.1	4500	45	P	
52	**Cr**	2	**0.064**	ug/l	0.32	51.7	4500	45	P	
54	**Fe**	2	**6.608**	ug/l	33.04	4.7	450000	74	P	
55	**Mn**	2	**35.110**	ug/l	175.55	0.6	15000	45	P	
59	**Co**	2	**0.072**	ug/l	0.36	10.3	4500	45	P	
60	**Ni**	2	**0.764**	ug/l	3.82	10.0	15000	45	P	
63	**Cu**	2	**0.261**	ug/l	1.31	15.0	15000	45	P	
66	**Zn**	2	**3.021**	ug/l	15.11	9.2	15000	45	P	
75	**As**	2	**0.471**	ug/l	2.36	8.9	4500	74	P	
78	**Se**	2	**0.165**	ug/l	0.82	443.8	4500	74	P	
88	**Sr**	3	**66.510**	ug/l	332.55	5.5	4500	74	P	
95	**Mo**	3	**0.600**	ug/l	3.00	5.8	4500	74	P	
107	**Ag**	3	**-0.002**	ug/l	-0.01	282.9	450	103	P	
111	**Cd**	3	**0.008**	ug/l	0.04	59.4	900	103	P	
118	**Sn**	3	**0.018**	ug/l	0.09	90.7	4500	103	P	
121	**Sb**	3	**0.023**	ug/l	0.12	25.2	4500	103	P	
135	**Ba**	3	**17.610**	ug/l	88.05	7.9	4500	103	P	
200	**Hg**	3	**0.242**	ug/l	1.21	13.6	45	209	P	
205	**Tl**	3	**0.050**	ug/l	0.25	24.6	4500	209	P	
208	**Pb**	3	**0.024**	ug/l	0.12	12.4	4500	209	P	
238	**U**	3	**0.616**	ug/l	3.08	8.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3364238	2.36	5119000	**65.7**	30	-	120	
45	Sc	1	182483	1.85	341400	**53.5**	30	-	120	
45	Sc	2	227157	0.71	273900	**82.9**	30	-	120	
74	Ge	1	158611	1.73	283600	**55.9**	30	-	120	
74	Ge	2	382069	0.91	422600	**90.4**	30	-	120	
74	Ge	3	1512956	3.55	1674000	**90.4**	30	-	120	
103	Rh	2	712739	0.90	814900	**87.5**	30	-	120	
103	Rh	3	1424914	6.18	1535000	**92.8**	30	-	120	
165	Ho	3	3191575	7.39	3236000	**98.6**	30	-	120	
175	Lu	3	3576149	5.85	3584000	**99.8**	30	-	120	
209	Bi	3	7331912	4.98	7619000	**96.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\116SMPL.D\116SMPL.D#
Date Acquired: May 28 2010 02:00 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**55.440**	ug/l	55.44	2.1	450	6	P	
23	**Na**	2	**4975.000**	ug/l	4,975.00	2.7	450000	45	A	
24	**Mg**	2	**5040.000**	ug/l	5,040.00	0.3	450000	45	A	
27	**Al**	2	**493.300**	ug/l	493.30	0.3	450000	45	P	
31	**P**	2	**4875.000**	ug/l	4,875.00	1.4	450000	45	P	
39	**K**	2	**5195.000**	ug/l	5,195.00	1.3	450000	45	A	
44	**Ca**	2	**5230.000**	ug/l	5,230.00	2.5	450000	45	P	
47	**Ti**	2	**52.020**	ug/l	52.02	1.1	4500	45	P	
51	**V**	2	**52.640**	ug/l	52.64	0.9	4500	45	P	
52	**Cr**	2	**53.040**	ug/l	53.04	1.1	4500	45	P	
54	**Fe**	2	**5115.000**	ug/l	5,115.00	0.5	450000	74	P	
55	**Mn**	2	**53.940**	ug/l	53.94	0.7	15000	45	P	
59	**Co**	2	**53.420**	ug/l	53.42	0.7	4500	45	P	
60	**Ni**	2	**53.810**	ug/l	53.81	1.7	15000	45	P	
63	**Cu**	2	**53.570**	ug/l	53.57	1.2	15000	45	P	
66	**Zn**	2	**54.530**	ug/l	54.53	0.8	15000	45	P	
75	**As**	2	**51.990**	ug/l	51.99	1.4	4500	74	P	
78	**Se**	2	**54.780**	ug/l	54.78	4.7	4500	74	P	
88	**Sr**	3	**54.090**	ug/l	54.09	1.7	4500	74	P	
95	**Mo**	3	**53.670**	ug/l	53.67	2.4	4500	74	P	
107	**Ag**	3	**52.430**	ug/l	52.43	1.9	450	103	P	
111	**Cd**	3	**52.610**	ug/l	52.61	2.8	900	103	P	
118	**Sn**	3	**53.520**	ug/l	53.52	2.0	4500	103	P	
121	**Sb**	3	**53.320**	ug/l	53.32	2.3	4500	103	P	
135	**Ba**	3	**54.280**	ug/l	54.28	2.0	4500	103	P	
200	**Hg**	3	**2.986**	ug/l	2.99	0.5	45	209	P	
205	**Tl**	3	**52.930**	ug/l	52.93	0.8	4500	209	P	
208	**Pb**	3	**53.550**	ug/l	53.55	1.1	4500	209	P	
238	**U**	3	**51.940**	ug/l	51.94	0.7	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3514483	1.10	5119000	**68.7**	30	-	120	
45	Sc	1	192352	2.12	341400	**56.3**	30	-	120	
45	Sc	2	234713	0.99	273900	**85.7**	30	-	120	
74	Ge	1	165627	1.32	283600	**58.4**	30	-	120	
74	Ge	2	386289	0.58	422600	**91.4**	30	-	120	
74	Ge	3	1540505	0.90	1674000	**92.0**	30	-	120	
103	Rh	2	732203	1.65	814900	**89.9**	30	-	120	
103	Rh	3	1412780	0.96	1535000	**92.0**	30	-	120	
165	Ho	3	3120733	0.97	3236000	**96.4**	30	-	120	
175	Lu	3	3486894	0.52	3584000	**97.3**	30	-	120	
209	Bi	3	7156871	0.28	7619000	**93.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\117SMPL.D\117SMPL.D#
Date Acquired: May 28 2010 02:07 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.014**	ug/l	0.01	32.8	450	6	P	
23	**Na**	2	**7.180**	ug/l	7.18	6.0	450000	45	P	
24	**Mg**	2	**2.599**	ug/l	2.60	12.7	450000	45	P	
27	**Al**	2	**0.362**	ug/l	0.36	76.3	450000	45	P	
31	**P**	2	**-6.859**	ug/l	-6.86	41.9	450000	45	P	
39	**K**	2	**15.370**	ug/l	15.37	23.7	450000	45	P	
44	**Ca**	2	**3.801**	ug/l	3.80	56.2	450000	45	P	
47	**Ti**	2	**0.055**	ug/l	0.06	45.8	4500	45	P	
51	**V**	2	**-0.066**	ug/l	-0.07	62.0	4500	45	P	
52	**Cr**	2	**-0.002**	ug/l	0.00	3230.8	4500	45	P	
54	**Fe**	2	**0.877**	ug/l	0.88	20.5	450000	74	P	
55	**Mn**	2	**0.092**	ug/l	0.09	5.2	15000	45	P	
59	**Co**	2	**0.017**	ug/l	0.02	27.2	4500	45	P	
60	**Ni**	2	**0.081**	ug/l	0.08	48.2	15000	45	P	
63	**Cu**	2	**0.027**	ug/l	0.03	37.9	15000	45	P	
66	**Zn**	2	**0.034**	ug/l	0.03	239.1	15000	45	P	
75	**As**	2	**-0.031**	ug/l	-0.03	118.4	4500	74	P	
78	**Se**	2	**-0.426**	ug/l	-0.43	89.2	4500	74	P	
88	**Sr**	3	**0.018**	ug/l	0.02	25.0	4500	74	P	
95	**Mo**	3	**0.004**	ug/l	0.00	7.3	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.01	8.5	450	103	P	
111	**Cd**	3	**0.012**	ug/l	0.01	95.7	900	103	P	
118	**Sn**	3	**0.015**	ug/l	0.02	26.6	4500	103	P	
121	**Sb**	3	**0.017**	ug/l	0.02	38.5	4500	103	P	
135	**Ba**	3	**0.008**	ug/l	0.01	80.9	4500	103	P	
200	**Hg**	3	**0.339**	ug/l	0.34	2.7	45	209	P	
205	**Tl**	3	**0.376**	ug/l	0.38	6.5	4500	209	P	
208	**Pb**	3	**0.013**	ug/l	0.01	12.2	4500	209	P	
238	**U**	3	**0.011**	ug/l	0.01	3.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3545477	2.67	5119000	**69.3**	30	-	120	
45	Sc	1	181365	2.13	341400	**53.1**	30	-	120	
45	Sc	2	235580	0.86	273900	**86.0**	30	-	120	
74	Ge	1	158750	0.82	283600	**56.0**	30	-	120	
74	Ge	2	390004	1.23	422600	**92.3**	30	-	120	
74	Ge	3	1506942	1.61	1674000	**90.0**	30	-	120	
103	Rh	2	752909	1.25	814900	**92.4**	30	-	120	
103	Rh	3	1429488	0.92	1535000	**93.1**	30	-	120	
165	Ho	3	3089178	1.80	3236000	**95.5**	30	-	120	
175	Lu	3	3399808	0.42	3584000	**94.9**	30	-	120	
209	Bi	3	7361822	0.89	7619000	**96.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\118SMPL.D\118SMPL.D#
Date Acquired: May 28 2010 02:14 am Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64536/21-A Vial Number: 3501
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.004**	ug/l	0.04	34.3	450	6	P	
23	**Na**	2	**5.219**	ug/l	52.19	24.9	450000	45	P	
24	**Mg**	2	**0.969**	ug/l	9.69	24.9	450000	45	P	
27	**Al**	2	**-0.138**	ug/l	-1.38	84.0	450000	45	P	
31	**P**	2	**-4.601**	ug/l	-46.01	92.8	450000	45	P	
39	**K**	2	**11.450**	ug/l	114.50	25.5	450000	45	P	
44	**Ca**	2	**0.165**	ug/l	1.65	1116.4	450000	45	P	
47	**Ti**	2	**0.011**	ug/l	0.11	213.6	4500	45	P	
51	**V**	2	**-0.100**	ug/l	-1.00	57.0	4500	45	P	
52	**Cr**	2	**-0.007**	ug/l	-0.07	369.9	4500	45	P	
54	**Fe**	2	**-0.130**	ug/l	-1.30	266.1	450000	74	P	
55	**Mn**	2	**0.079**	ug/l	0.79	14.4	15000	45	P	
59	**Co**	2	**0.005**	ug/l	0.05	89.7	4500	45	P	
60	**Ni**	2	**0.063**	ug/l	0.63	42.9	15000	45	P	
63	**Cu**	2	**0.020**	ug/l	0.20	130.3	15000	45	P	
66	**Zn**	2	**-0.011**	ug/l	-0.11	160.8	15000	45	P	
75	**As**	2	**-0.056**	ug/l	-0.56	47.3	4500	74	P	
78	**Se**	2	**-0.269**	ug/l	-2.69	157.1	4500	74	P	
88	**Sr**	3	**0.002**	ug/l	0.02	139.8	4500	74	P	
95	**Mo**	3	**-0.007**	ug/l	-0.07	52.0	4500	74	P	
107	**Ag**	3	**0.002**	ug/l	0.02	159.6	450	103	P	
111	**Cd**	3	**0.002**	ug/l	0.02	952.2	900	103	P	
118	**Sn**	3	**0.016**	ug/l	0.16	37.4	4500	103	P	
121	**Sb**	3	**0.008**	ug/l	0.08	33.6	4500	103	P	
135	**Ba**	3	**-0.003**	ug/l	-0.03	125.4	4500	103	P	
200	**Hg**	3	**0.327**	ug/l	3.27	3.5	45	209	P	
205	**Tl**	3	**0.150**	ug/l	1.50	1.8	4500	209	P	
208	**Pb**	3	**0.000**	ug/l	0.00	15623.0	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.01	132.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3675360	0.81	5119000	**71.8**	30	-	120	
45	Sc	1	185942	1.78	341400	**54.5**	30	-	120	
45	Sc	2	237206	0.72	273900	**86.6**	30	-	120	
74	Ge	1	162557	0.44	283600	**57.3**	30	-	120	
74	Ge	2	389130	1.48	422600	**92.1**	30	-	120	
74	Ge	3	1534128	1.21	1674000	**91.6**	30	-	120	
103	Rh	2	750161	0.76	814900	**92.1**	30	-	120	
103	Rh	3	1432360	0.34	1535000	**93.3**	30	-	120	
165	Ho	3	3103646	0.87	3236000	**95.9**	30	-	120	
175	Lu	3	3437128	1.16	3584000	**95.9**	30	-	120	
209	Bi	3	7350793	0.57	7619000	**96.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\119SMPL.D\119SMPL.D#
Date Acquired: May 28 2010 02:21 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-B SD Vial Number: 3502
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.113**	ug/l	5.66	1.4	450	6	P	
23	**Na**	2	**39.400**	ug/l	1,970.00	6.0	450000	45	P	
24	**Mg**	2	**3658.000**	ug/l	182,900.00	0.7	450000	45	A	
27	**Al**	2	**4941.000**	ug/l	247,050.00	1.7	450000	45	A	
31	**P**	2	**305.500**	ug/l	15,275.00	4.0	450000	45	P	
39	**K**	2	**541.700**	ug/l	27,085.00	1.4	450000	45	P	
44	**Ca**	2	**1652.000**	ug/l	82,600.00	0.7	450000	45	P	
47	**Ti**	2	**33.070**	ug/l	1,653.50	5.2	4500	45	P	
51	**V**	2	**27.000**	ug/l	1,350.00	1.5	4500	45	P	
52	**Cr**	2	**677.400**	ug/l	33,870.00	0.7	4500	45	A	
54	**Fe**	2	**60590.000**	ug/l	3,029,500.00	1.9	450000	74	A	
55	**Mn**	2	**248.500**	ug/l	12,425.00	0.7	15000	45	P	
59	**Co**	2	**30.900**	ug/l	1,545.00	1.1	4500	45	P	
60	**Ni**	2	**348.200**	ug/l	17,410.00	1.1	15000	45	P	
63	**Cu**	2	**25.080**	ug/l	1,254.00	2.1	15000	45	P	
66	**Zn**	2	**372.700**	ug/l	18,635.00	1.5	15000	45	P	
75	**As**	2	**2.060**	ug/l	103.00	1.7	4500	74	P	
78	**Se**	2	**-0.068**	ug/l	-3.38	589.5	4500	74	P	
88	**Sr**	3	**15.710**	ug/l	785.50	1.0	4500	74	P	
95	**Mo**	3	**0.529**	ug/l	26.43	11.7	4500	74	P	
107	**Ag**	3	**0.033**	ug/l	1.64	5.9	450	103	P	
111	**Cd**	3	**0.197**	ug/l	9.87	19.0	900	103	P	
118	**Sn**	3	**0.901**	ug/l	45.06	4.3	4500	103	P	
121	**Sb**	3	**0.775**	ug/l	38.74	2.5	4500	103	P	
135	**Ba**	3	**52.660**	ug/l	2,633.00	2.4	4500	103	P	
200	**Hg**	3	**11600.000**	ug/l	580,000.00	0.3	45	209	A	Fail
205	**Tl**	3	**0.150**	ug/l	7.52	6.9	4500	209	P	
208	**Pb**	3	**254.200**	ug/l	12,710.00	0.2	4500	209	A	
238	**U**	3	**0.076**	ug/l	3.82	6.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3503835	0.68	5119000	**68.4**	30	-	120	
45	Sc	1	196808	2.36	341400	**57.6**	30	-	120	
45	Sc	2	232807	1.10	273900	**85.0**	30	-	120	
74	Ge	1	165015	0.85	283600	**58.2**	30	-	120	
74	Ge	2	371173	1.23	422600	**87.8**	30	-	120	
74	Ge	3	1453813	1.14	1674000	**86.8**	30	-	120	
103	Rh	2	708914	1.58	814900	**87.0**	30	-	120	
103	Rh	3	1343500	1.40	1535000	**87.5**	30	-	120	
165	Ho	3	3029067	1.43	3236000	**93.6**	30	-	120	
175	Lu	3	3382335	0.72	3584000	**94.4**	30	-	120	
209	Bi	3	7019296	0.50	7619000	**92.1**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\120SMPL.D\120SMPL.D#
Date Acquired: May 28 2010 02:28 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-B Vial Number: 3503
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.582**	ug/l	5.82	2.1	450	6	P	
23	**Na**	2	**181.800**	ug/l	1,818.00	2.5	450000	45	P	
24	**Mg**	2	**16050.000**	ug/l	160,500.00	1.0	450000	45	A	
27	**Al**	2	**21520.000**	ug/l	215,200.00	1.6	450000	45	A	
31	**P**	2	**1403.000**	ug/l	14,030.00	2.3	450000	45	P	
39	**K**	2	**2365.000**	ug/l	23,650.00	1.0	450000	45	P	
44	**Ca**	2	**7420.000**	ug/l	74,200.00	1.2	450000	45	P	
47	**Ti**	2	**147.900**	ug/l	1,479.00	8.6	4500	45	P	
51	**V**	2	**122.100**	ug/l	1,221.00	0.7	4500	45	P	
52	**Cr**	2	**2917.000**	ug/l	29,170.00	1.5	4500	45	A	
54	**Fe**	2	**296200.000**	ug/l	2,962,000.00	0.9	450000	74	A	
55	**Mn**	2	**1085.000**	ug/l	10,850.00	2.1	15000	45	A	
59	**Co**	2	**136.600**	ug/l	1,366.00	1.2	4500	45	P	
60	**Ni**	2	**1500.000**	ug/l	15,000.00	1.3	15000	45	A	
63	**Cu**	2	**109.700**	ug/l	1,097.00	1.1	15000	45	P	
66	**Zn**	2	**1653.000**	ug/l	16,530.00	2.2	15000	45	P	
75	**As**	2	**9.883**	ug/l	98.83	0.9	4500	74	P	
78	**Se**	2	**0.857**	ug/l	8.57	140.0	4500	74	P	
88	**Sr**	3	**78.770**	ug/l	787.70	1.8	4500	74	P	
95	**Mo**	3	**3.021**	ug/l	30.21	3.1	4500	74	P	
107	**Ag**	3	**0.130**	ug/l	1.30	8.9	450	103	P	
111	**Cd**	3	**0.863**	ug/l	8.63	11.5	900	103	P	
118	**Sn**	3	**4.532**	ug/l	45.32	1.8	4500	103	P	
121	**Sb**	3	**3.781**	ug/l	37.81	3.0	4500	103	P	
135	**Ba**	3	**256.300**	ug/l	2,563.00	0.8	4500	103	P	
200	**Hg**	3	**59270.000**	ug/l	592,700.00	1.6	45	209	A	Fail
205	**Tl**	3	**0.315**	ug/l	3.15	4.9	4500	209	P	
208	**Pb**	3	**1240.000**	ug/l	12,400.00	1.3	4500	209	A	
238	**U**	3	**0.415**	ug/l	4.15	2.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2788876	1.17	5119000	**54.5**	30	-	120	
45	Sc	1	193235	1.45	341400	**56.6**	30	-	120	
45	Sc	2	215961	1.79	273900	**78.8**	30	-	120	
74	Ge	1	142634	1.36	283600	**50.3**	30	-	120	
74	Ge	2	314196	1.30	422600	**74.3**	30	-	120	
74	Ge	3	1234557	2.10	1674000	**73.7**	30	-	120	
103	Rh	2	604910	1.41	814900	**74.2**	30	-	120	
103	Rh	3	1194942	0.82	1535000	**77.8**	30	-	120	
165	Ho	3	2813448	0.58	3236000	**86.9**	30	-	120	
175	Lu	3	3119866	0.76	3584000	**87.0**	30	-	120	
209	Bi	3	6320709	1.50	7619000	**83.0**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\121SMPL.D\121SMPL.D#
Date Acquired: May 28 2010 02:35 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-C DU Vial Number: 3504
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.607**	ug/l	6.07	2.5	450	6	P	
23	**Na**	2	**190.000**	ug/l	1,900.00	0.4	450000	45	P	
24	**Mg**	2	**16690.000**	ug/l	166,900.00	1.1	450000	45	A	
27	**Al**	2	**22230.000**	ug/l	222,300.00	0.8	450000	45	A	
31	**P**	2	**1452.000**	ug/l	14,520.00	6.3	450000	45	P	
39	**K**	2	**2406.000**	ug/l	24,060.00	1.5	450000	45	P	
44	**Ca**	2	**7607.000**	ug/l	76,070.00	0.5	450000	45	P	
47	**Ti**	2	**144.700**	ug/l	1,447.00	1.4	4500	45	P	
51	**V**	2	**126.500**	ug/l	1,265.00	1.5	4500	45	P	
52	**Cr**	2	**3009.000**	ug/l	30,090.00	1.1	4500	45	A	
54	**Fe**	2	**308500.000**	ug/l	3,085,000.00	1.8	450000	74	A	
55	**Mn**	2	**1117.000**	ug/l	11,170.00	1.9	15000	45	A	
59	**Co**	2	**142.000**	ug/l	1,420.00	1.4	4500	45	P	
60	**Ni**	2	**1556.000**	ug/l	15,560.00	2.2	15000	45	A	
63	**Cu**	2	**113.900**	ug/l	1,139.00	1.2	15000	45	P	
66	**Zn**	2	**1718.000**	ug/l	17,180.00	0.8	15000	45	P	
75	**As**	2	**10.650**	ug/l	106.50	1.5	4500	74	P	
78	**Se**	2	**0.590**	ug/l	5.90	32.8	4500	74	P	
88	**Sr**	3	**80.610**	ug/l	806.10	0.9	4500	74	P	
95	**Mo**	3	**2.967**	ug/l	29.67	4.4	4500	74	P	
107	**Ag**	3	**0.136**	ug/l	1.36	16.7	450	103	P	
111	**Cd**	3	**0.829**	ug/l	8.29	6.4	900	103	P	
118	**Sn**	3	**4.716**	ug/l	47.16	3.7	4500	103	P	
121	**Sb**	3	**3.936**	ug/l	39.36	3.3	4500	103	P	
135	**Ba**	3	**267.600**	ug/l	2,676.00	0.6	4500	103	P	
200	**Hg**	3	**60810.000**	ug/l	608,100.00	0.9	45	209	A	Fail
205	**Tl**	3	**0.293**	ug/l	2.93	4.6	4500	209	P	
208	**Pb**	3	**1266.000**	ug/l	12,660.00	0.6	4500	209	A	
238	**U**	3	**0.435**	ug/l	4.35	2.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2703033	1.65	5119000	**52.8**	30	-	120	
45	Sc	1	191451	1.10	341400	**56.1**	30	-	120	
45	Sc	2	211929	1.33	273900	**77.4**	30	-	120	
74	Ge	1	139723	1.04	283600	**49.3**	30	-	120	
74	Ge	2	308266	2.18	422600	**72.9**	30	-	120	
74	Ge	3	1253667	1.85	1674000	**74.9**	30	-	120	
103	Rh	2	600677	1.93	814900	**73.7**	30	-	120	
103	Rh	3	1188359	0.47	1535000	**77.4**	30	-	120	
165	Ho	3	2809526	0.16	3236000	**86.8**	30	-	120	
175	Lu	3	3156967	0.74	3584000	**88.1**	30	-	120	
209	Bi	3	6393694	0.42	7619000	**83.9**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\122SMPL.D\122SMPL.D#
Date Acquired: May 28 2010 02:42 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-D MS Vial Number: 3505
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.211**	ug/l	110.55	0.5	450	6	P	
23	**Na**	2	**451.000**	ug/l	22,550.00	1.0	450000	45	P	
24	**Mg**	2	**3629.000**	ug/l	181,450.00	1.2	450000	45	A	
27	**Al**	2	**4520.000**	ug/l	226,000.00	0.5	450000	45	P	
31	**P**	2	**626.100**	ug/l	31,305.00	1.3	450000	45	P	
39	**K**	2	**884.200**	ug/l	44,210.00	0.4	450000	45	P	
44	**Ca**	2	**1859.000**	ug/l	92,950.00	0.8	450000	45	P	
47	**Ti**	2	**124.800**	ug/l	6,240.00	0.6	4500	45	P	
51	**V**	2	**44.100**	ug/l	2,205.00	1.6	4500	45	P	
52	**Cr**	2	**607.200**	ug/l	30,360.00	1.1	4500	45	A	
54	**Fe**	2	**53590.000**	ug/l	2,679,500.00	0.6	450000	74	A	
55	**Mn**	2	**240.200**	ug/l	12,010.00	0.5	15000	45	P	
59	**Co**	2	**47.540**	ug/l	2,377.00	0.3	4500	45	P	
60	**Ni**	2	**326.900**	ug/l	16,345.00	0.7	15000	45	P	
63	**Cu**	2	**32.250**	ug/l	1,612.50	0.9	15000	45	P	
66	**Zn**	2	**352.600**	ug/l	17,630.00	1.4	15000	45	P	
75	**As**	2	**78.870**	ug/l	3,943.50	1.1	4500	74	P	
78	**Se**	2	**85.530**	ug/l	4,276.50	7.7	4500	74	P	
88	**Sr**	3	**13.690**	ug/l	684.50	0.3	4500	74	P	
95	**Mo**	3	**105.700**	ug/l	5,285.00	1.4	4500	74	P	
107	**Ag**	3	**12.130**	ug/l	606.50	1.2	450	103	P	
111	**Cd**	3	**2.277**	ug/l	113.85	5.0	900	103	P	
118	**Sn**	3	**106.400**	ug/l	5,320.00	1.6	4500	103	P	
121	**Sb**	3	**59.100**	ug/l	2,955.00	1.4	4500	103	P	
135	**Ba**	3	**130.900**	ug/l	6,545.00	1.7	4500	103	P	
200	**Hg**	3	**10540.000**	ug/l	527,000.00	0.7	45	209	A	Fail
205	**Tl**	3	**80.210**	ug/l	4,010.50	0.6	4500	209	A	
208	**Pb**	3	**245.100**	ug/l	12,255.00	1.1	4500	209	A	
238	**U**	3	**0.074**	ug/l	3.69	2.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3215270	1.59	5119000	**62.8**	30	-	120	
45	Sc	1	188805	0.60	341400	**55.3**	30	-	120	
45	Sc	2	212052	0.68	273900	**77.4**	30	-	120	
74	Ge	1	157650	1.28	283600	**55.6**	30	-	120	
74	Ge	2	345724	1.37	422600	**81.8**	30	-	120	
74	Ge	3	1358625	0.97	1674000	**81.2**	30	-	120	
103	Rh	2	672207	0.09	814900	**82.5**	30	-	120	
103	Rh	3	1287027	0.40	1535000	**83.8**	30	-	120	
165	Ho	3	2926651	1.06	3236000	**90.4**	30	-	120	
175	Lu	3	3269518	0.85	3584000	**91.2**	30	-	120	
209	Bi	3	6840558	0.76	7619000	**89.8**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\123SMPL.D\123SMPL.D#
Date Acquired: May 28 2010 02:49 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-E MSD Vial Number: 3506
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.340**	ug/l	117.00	4.5	450	6	P	
23	**Na**	2	**456.100**	ug/l	22,805.00	1.0	450000	45	P	
24	**Mg**	2	**3751.000**	ug/l	187,550.00	1.8	450000	45	A	
27	**Al**	2	**4641.000**	ug/l	232,050.00	0.7	450000	45	P	
31	**P**	2	**653.900**	ug/l	32,695.00	3.5	450000	45	P	
39	**K**	2	**920.800**	ug/l	46,040.00	1.0	450000	45	P	
44	**Ca**	2	**1939.000**	ug/l	96,950.00	1.6	450000	45	P	
47	**Ti**	2	**129.400**	ug/l	6,470.00	0.5	4500	45	P	
51	**V**	2	**44.670**	ug/l	2,233.50	0.4	4500	45	P	
52	**Cr**	2	**622.900**	ug/l	31,145.00	0.3	4500	45	A	
54	**Fe**	2	**56280.000**	ug/l	2,814,000.00	0.8	450000	74	A	
55	**Mn**	2	**246.400**	ug/l	12,320.00	0.5	15000	45	P	
59	**Co**	2	**48.900**	ug/l	2,445.00	0.7	4500	45	P	
60	**Ni**	2	**335.600**	ug/l	16,780.00	0.6	15000	45	P	
63	**Cu**	2	**33.310**	ug/l	1,665.50	1.3	15000	45	P	
66	**Zn**	2	**361.100**	ug/l	18,055.00	0.1	15000	45	P	
75	**As**	2	**83.000**	ug/l	4,150.00	2.5	4500	74	P	
78	**Se**	2	**83.460**	ug/l	4,173.00	5.0	4500	74	P	
88	**Sr**	3	**14.080**	ug/l	704.00	1.6	4500	74	P	
95	**Mo**	3	**110.600**	ug/l	5,530.00	1.7	4500	74	P	
107	**Ag**	3	**12.910**	ug/l	645.50	1.4	450	103	P	
111	**Cd**	3	**2.322**	ug/l	116.10	4.1	900	103	P	
118	**Sn**	3	**112.300**	ug/l	5,615.00	0.2	4500	103	P	
121	**Sb**	3	**62.290**	ug/l	3,114.50	1.9	4500	103	P	
135	**Ba**	3	**135.300**	ug/l	6,765.00	2.5	4500	103	P	
200	**Hg**	3	**10810.000**	ug/l	540,500.00	0.7	45	209	A	Fail
205	**Tl**	3	**83.760**	ug/l	4,188.00	1.4	4500	209	A	
208	**Pb**	3	**254.400**	ug/l	12,720.00	0.2	4500	209	A	
238	**U**	3	**0.068**	ug/l	3.42	5.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3249122	1.91	5119000	**63.5**	30	-	120	
45	Sc	1	196673	0.44	341400	**57.6**	30	-	120	
45	Sc	2	216349	1.14	273900	**79.0**	30	-	120	
74	Ge	1	167658	2.39	283600	**59.1**	30	-	120	
74	Ge	2	343560	1.24	422600	**81.3**	30	-	120	
74	Ge	3	1370036	1.32	1674000	**81.8**	30	-	120	
103	Rh	2	668136	0.61	814900	**82.0**	30	-	120	
103	Rh	3	1277754	0.41	1535000	**83.2**	30	-	120	
165	Ho	3	2919016	0.54	3236000	**90.2**	30	-	120	
175	Lu	3	3272152	0.70	3584000	**91.3**	30	-	120	
209	Bi	3	6822660	0.83	7619000	**89.5**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\124SMPL.D\124SMPL.D#
Date Acquired: May 28 2010 02:57 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-B PDS Vial Number: 3507
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.238**	ug/l	111.90	3.9	450	6	P	
23	**Na**	2	**463.500**	ug/l	23,175.00	0.9	450000	45	P	
24	**Mg**	2	**3787.000**	ug/l	189,350.00	3.3	450000	45	A	
27	**Al**	2	**4688.000**	ug/l	234,400.00	1.2	450000	45	P	
31	**P**	2	**648.000**	ug/l	32,400.00	1.3	450000	45	P	
39	**K**	2	**912.400**	ug/l	45,620.00	1.1	450000	45	P	
44	**Ca**	2	**1950.000**	ug/l	97,500.00	0.4	450000	45	P	
47	**Ti**	2	**130.000**	ug/l	6,500.00	1.7	4500	45	P	
51	**V**	2	**45.020**	ug/l	2,251.00	0.9	4500	45	P	
52	**Cr**	2	**624.800**	ug/l	31,240.00	1.9	4500	45	A	
54	**Fe**	2	**56330.000**	ug/l	2,816,500.00	2.1	450000	74	A	
55	**Mn**	2	**247.700**	ug/l	12,385.00	1.0	15000	45	P	
59	**Co**	2	**48.970**	ug/l	2,448.50	0.3	4500	45	P	
60	**Ni**	2	**338.000**	ug/l	16,900.00	0.7	15000	45	P	
63	**Cu**	2	**33.110**	ug/l	1,655.50	0.5	15000	45	P	
66	**Zn**	2	**364.000**	ug/l	18,200.00	1.4	15000	45	P	
75	**As**	2	**81.440**	ug/l	4,072.00	1.2	4500	74	P	
78	**Se**	2	**86.300**	ug/l	4,315.00	10.3	4500	74	P	
88	**Sr**	3	**14.120**	ug/l	706.00	1.1	4500	74	P	
95	**Mo**	3	**110.100**	ug/l	5,505.00	0.4	4500	74	P	
107	**Ag**	3	**12.670**	ug/l	633.50	0.3	450	103	P	
111	**Cd**	3	**2.254**	ug/l	112.70	5.7	900	103	P	
118	**Sn**	3	**111.700**	ug/l	5,585.00	1.0	4500	103	P	
121	**Sb**	3	**61.940**	ug/l	3,097.00	1.4	4500	103	P	
135	**Ba**	3	**134.900**	ug/l	6,745.00	2.3	4500	103	P	
200	**Hg**	3	**10790.000**	ug/l	539,500.00	0.9	45	209	A	Fail
205	**Tl**	3	**83.190**	ug/l	4,159.50	0.6	4500	209	A	
208	**Pb**	3	**254.400**	ug/l	12,720.00	0.3	4500	209	A	
238	**U**	3	**0.072**	ug/l	3.58	7.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3302458	1.21	5119000	**64.5**	30	-	120	
45	Sc	1	193331	1.24	341400	**56.6**	30	-	120	
45	Sc	2	214293	1.43	273900	**78.2**	30	-	120	
74	Ge	1	161265	2.21	283600	**56.9**	30	-	120	
74	Ge	2	342827	1.91	422600	**81.1**	30	-	120	
74	Ge	3	1342083	0.33	1674000	**80.2**	30	-	120	
103	Rh	2	666322	1.76	814900	**81.8**	30	-	120	
103	Rh	3	1264862	1.00	1535000	**82.4**	30	-	120	
165	Ho	3	2928652	0.52	3236000	**90.5**	30	-	120	
175	Lu	3	3235943	1.09	3584000	**90.3**	30	-	120	
209	Bi	3	6747785	0.26	7619000	**88.6**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\125SMPL.D\125SMPL.D#
Date Acquired: May 28 2010 03:04 am Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64536/22-A Vial Number: 3508
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.152**	ug/l	107.60	1.3	450	6	P	
23	**Na**	2	**425.600**	ug/l	21,280.00	1.8	450000	45	P	
24	**Mg**	2	**416.800**	ug/l	20,840.00	1.5	450000	45	P	
27	**Al**	2	**78.000**	ug/l	3,900.00	1.3	450000	45	P	
31	**P**	2	**369.000**	ug/l	18,450.00	2.9	450000	45	P	
39	**K**	2	**433.300**	ug/l	21,665.00	0.5	450000	45	P	
44	**Ca**	2	**409.900**	ug/l	20,495.00	2.1	450000	45	P	
47	**Ti**	2	**100.800**	ug/l	5,040.00	1.0	4500	45	P	
51	**V**	2	**20.620**	ug/l	1,031.00	1.3	4500	45	P	
52	**Cr**	2	**8.473**	ug/l	423.65	3.1	4500	45	P	
54	**Fe**	2	**455.100**	ug/l	22,755.00	1.0	450000	74	P	
55	**Mn**	2	**21.450**	ug/l	1,072.50	0.9	15000	45	P	
59	**Co**	2	**21.450**	ug/l	1,072.50	1.5	4500	45	P	
60	**Ni**	2	**21.840**	ug/l	1,092.00	2.9	15000	45	P	
63	**Cu**	2	**10.920**	ug/l	546.00	0.3	15000	45	P	
66	**Zn**	2	**21.310**	ug/l	1,065.50	4.0	15000	45	P	
75	**As**	2	**81.200**	ug/l	4,060.00	2.1	4500	74	P	
78	**Se**	2	**84.830**	ug/l	4,241.50	4.7	4500	74	P	
88	**Sr**	3	**0.007**	ug/l	0.35	84.5	4500	74	P	
95	**Mo**	3	**106.100**	ug/l	5,305.00	0.4	4500	74	P	
107	**Ag**	3	**12.430**	ug/l	621.50	2.0	450	103	P	
111	**Cd**	3	**1.966**	ug/l	98.30	0.6	900	103	P	
118	**Sn**	3	**106.400**	ug/l	5,320.00	1.6	4500	103	P	
121	**Sb**	3	**60.900**	ug/l	3,045.00	1.3	4500	103	P	
135	**Ba**	3	**84.920**	ug/l	4,246.00	2.1	4500	103	P	
200	**Hg**	3	**97.450**	ug/l	4,872.50	2.1	45	209	P	Fail
205	**Tl**	3	**79.380**	ug/l	3,969.00	2.1	4500	209	A	
208	**Pb**	3	**20.690**	ug/l	1,034.50	1.6	4500	209	P	
238	**U**	3	**-0.002**	ug/l	-0.08	15.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3172018	0.74	5119000	**62.0**	30	-	120	
45	Sc	1	187075	1.02	341400	**54.8**	30	-	120	
45	Sc	2	211130	1.70	273900	**77.1**	30	-	120	
74	Ge	1	160962	2.53	283600	**56.8**	30	-	120	
74	Ge	2	351420	0.76	422600	**83.2**	30	-	120	
74	Ge	3	1375847	0.18	1674000	**82.2**	30	-	120	
103	Rh	2	690459	0.53	814900	**84.7**	30	-	120	
103	Rh	3	1307511	0.54	1535000	**85.2**	30	-	120	
165	Ho	3	2971472	0.60	3236000	**91.8**	30	-	120	
175	Lu	3	3226827	0.89	3584000	**90.0**	30	-	120	
209	Bi	3	7068557	1.03	7619000	**92.8**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\126SMPL.D\126SMPL.D#
Date Acquired: May 28 2010 03:11 am Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64536/23-A Vial Number: 3509
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.159**	ug/l	107.95	1.3	450	6	P	
23	**Na**	2	**424.400**	ug/l	21,220.00	0.5	450000	45	P	
24	**Mg**	2	**414.600**	ug/l	20,730.00	1.1	450000	45	P	
27	**Al**	2	**76.790**	ug/l	3,839.50	3.4	450000	45	P	
31	**P**	2	**356.500**	ug/l	17,825.00	4.6	450000	45	P	
39	**K**	2	**428.500**	ug/l	21,425.00	0.4	450000	45	P	
44	**Ca**	2	**423.600**	ug/l	21,180.00	5.9	450000	45	P	
47	**Ti**	2	**99.850**	ug/l	4,992.50	1.8	4500	45	P	
51	**V**	2	**20.430**	ug/l	1,021.50	0.9	4500	45	P	
52	**Cr**	2	**8.212**	ug/l	410.60	1.1	4500	45	P	
54	**Fe**	2	**443.300**	ug/l	22,165.00	1.2	450000	74	P	
55	**Mn**	2	**21.330**	ug/l	1,066.50	0.3	15000	45	P	
59	**Co**	2	**21.180**	ug/l	1,059.00	0.6	4500	45	P	
60	**Ni**	2	**21.020**	ug/l	1,051.00	4.1	15000	45	P	
63	**Cu**	2	**10.900**	ug/l	545.00	0.8	15000	45	P	
66	**Zn**	2	**21.900**	ug/l	1,095.00	1.5	15000	45	P	
75	**As**	2	**80.880**	ug/l	4,044.00	1.0	4500	74	P	
78	**Se**	2	**75.290**	ug/l	3,764.50	7.8	4500	74	P	
88	**Sr**	3	**0.003**	ug/l	0.14	161.9	4500	74	P	
95	**Mo**	3	**106.600**	ug/l	5,330.00	1.2	4500	74	P	
107	**Ag**	3	**12.560**	ug/l	628.00	0.9	450	103	P	
111	**Cd**	3	**2.077**	ug/l	103.85	3.6	900	103	P	
118	**Sn**	3	**107.300**	ug/l	5,365.00	0.2	4500	103	P	
121	**Sb**	3	**60.830**	ug/l	3,041.50	1.4	4500	103	P	
135	**Ba**	3	**86.040**	ug/l	4,302.00	0.9	4500	103	P	
200	**Hg**	3	**71.400**	ug/l	3,570.00	1.7	45	209	P	Fail
205	**Tl**	3	**80.380**	ug/l	4,019.00	0.3	4500	209	A	
208	**Pb**	3	**20.920**	ug/l	1,046.00	0.5	4500	209	P	
238	**U**	3	**-0.002**	ug/l	-0.08	17.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3163652	1.52	5119000	**61.8**	30	-	120	
45	Sc	1	186752	0.91	341400	**54.7**	30	-	120	
45	Sc	2	213137	0.64	273900	**77.8**	30	-	120	
74	Ge	1	162307	0.71	283600	**57.2**	30	-	120	
74	Ge	2	353633	0.94	422600	**83.7**	30	-	120	
74	Ge	3	1391109	0.69	1674000	**83.1**	30	-	120	
103	Rh	2	696394	1.10	814900	**85.5**	30	-	120	
103	Rh	3	1316056	0.72	1535000	**85.7**	30	-	120	
165	Ho	3	2994420	1.18	3236000	**92.5**	30	-	120	
175	Lu	3	3327261	0.33	3584000	**92.8**	30	-	120	
209	Bi	3	7040570	0.32	7619000	**92.4**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\127SMPL.D\127SMPL.D#
Date Acquired: May 28 2010 03:18 am Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64536/24-A Vial Number: 3510
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**95.780**	ug/l	1,915.60	1.3	450	6	P	
23	**Na**	2	**328.900**	ug/l	6,578.00	0.5	450000	45	P	
24	**Mg**	2	**2449.000**	ug/l	48,980.00	0.6	450000	45	A	
27	**Al**	2	**5847.000**	ug/l	116,940.00	0.9	450000	45	A	
31	**P**	2	**403.100**	ug/l	8,062.00	5.6	450000	45	P	
39	**K**	2	**2430.000**	ug/l	48,600.00	0.5	450000	45	P	
44	**Ca**	2	**5586.000**	ug/l	111,720.00	2.1	450000	45	P	
47	**Ti**	2	**274.600**	ug/l	5,492.00	0.6	4500	45	P	
51	**V**	2	**56.980**	ug/l	1,139.60	1.2	4500	45	P	
52	**Cr**	2	**72.540**	ug/l	1,450.80	0.7	4500	45	P	
54	**Fe**	2	**10180.000**	ug/l	203,600.00	2.0	450000	74	A	
55	**Mn**	2	**216.600**	ug/l	4,332.00	0.5	15000	45	P	
59	**Co**	2	**70.910**	ug/l	1,418.20	0.5	4500	45	P	
60	**Ni**	2	**106.200**	ug/l	2,124.00	1.5	15000	45	P	
63	**Cu**	2	**40.610**	ug/l	812.20	0.5	15000	45	P	
66	**Zn**	2	**217.100**	ug/l	4,342.00	0.5	15000	45	P	
75	**As**	2	**130.700**	ug/l	2,614.00	1.2	4500	74	P	
78	**Se**	2	**89.080**	ug/l	1,781.60	10.3	4500	74	P	
88	**Sr**	3	**74.010**	ug/l	1,480.20	2.6	4500	74	P	
95	**Mo**	3	**67.690**	ug/l	1,353.80	2.2	4500	74	P	
107	**Ag**	3	**21.040**	ug/l	420.80	0.5	450	103	P	
111	**Cd**	3	**40.280**	ug/l	805.60	0.8	900	103	P	
118	**Sn**	3	**101.200**	ug/l	2,024.00	1.4	4500	103	P	
121	**Sb**	3	**86.000**	ug/l	1,720.00	1.4	4500	103	P	
135	**Ba**	3	**337.800**	ug/l	6,756.00	1.4	4500	103	P	
200	**Hg**	3	**73.880**	ug/l	1,477.60	0.9	45	209	P	Fail
205	**Tl**	3	**101.300**	ug/l	2,026.00	1.1	4500	209	A	
208	**Pb**	3	**126.600**	ug/l	2,532.00	0.3	4500	209	A	
238	**U**	3	**1.052**	ug/l	21.04	1.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3541150	1.81	5119000	**69.2**	30	-	120	
45	Sc	1	195648	1.35	341400	**57.3**	30	-	120	
45	Sc	2	217133	0.52	273900	**79.3**	30	-	120	
74	Ge	1	169345	1.69	283600	**59.7**	30	-	120	
74	Ge	2	353442	1.40	422600	**83.6**	30	-	120	
74	Ge	3	1413697	2.49	1674000	**84.5**	30	-	120	
103	Rh	2	676511	0.81	814900	**83.0**	30	-	120	
103	Rh	3	1318493	0.29	1535000	**85.9**	30	-	120	
165	Ho	3	2966347	1.69	3236000	**91.7**	30	-	120	
175	Lu	3	3306452	0.32	3584000	**92.3**	30	-	120	
209	Bi	3	6907766	0.97	7619000	**90.7**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\128SMPL.D\128SMPL.D#
Date Acquired: May 28 2010 03:25 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**53.990**	ug/l	53.99	1.3	450	6	P	
23	**Na**	2	**5053.000**	ug/l	5,053.00	1.8	450000	45	A	
24	**Mg**	2	**5087.000**	ug/l	5,087.00	2.0	450000	45	A	
27	**Al**	2	**491.400**	ug/l	491.40	0.6	450000	45	P	
31	**P**	2	**4989.000**	ug/l	4,989.00	2.9	450000	45	P	
39	**K**	2	**5325.000**	ug/l	5,325.00	2.1	450000	45	A	
44	**Ca**	2	**5194.000**	ug/l	5,194.00	1.9	450000	45	P	
47	**Ti**	2	**52.740**	ug/l	52.74	0.7	4500	45	P	
51	**V**	2	**53.020**	ug/l	53.02	1.6	4500	45	P	
52	**Cr**	2	**52.970**	ug/l	52.97	1.3	4500	45	P	
54	**Fe**	2	**5153.000**	ug/l	5,153.00	1.1	450000	74	P	
55	**Mn**	2	**53.850**	ug/l	53.85	0.4	15000	45	P	
59	**Co**	2	**53.890**	ug/l	53.89	0.8	4500	45	P	
60	**Ni**	2	**53.990**	ug/l	53.99	2.6	15000	45	P	
63	**Cu**	2	**53.780**	ug/l	53.78	1.5	15000	45	P	
66	**Zn**	2	**54.140**	ug/l	54.14	1.5	15000	45	P	
75	**As**	2	**51.910**	ug/l	51.91	3.0	4500	74	P	
78	**Se**	2	**51.220**	ug/l	51.22	2.4	4500	74	P	
88	**Sr**	3	**53.490**	ug/l	53.49	1.1	4500	74	P	
95	**Mo**	3	**52.860**	ug/l	52.86	1.3	4500	74	P	
107	**Ag**	3	**52.230**	ug/l	52.23	1.6	450	103	P	
111	**Cd**	3	**51.730**	ug/l	51.73	3.5	900	103	P	
118	**Sn**	3	**53.190**	ug/l	53.19	1.1	4500	103	P	
121	**Sb**	3	**53.210**	ug/l	53.21	2.7	4500	103	P	
135	**Ba**	3	**53.830**	ug/l	53.83	2.8	4500	103	P	
200	**Hg**	3	**54.090**	ug/l	54.09	0.1	45	209	P	Fail
205	**Tl**	3	**52.910**	ug/l	52.91	1.9	4500	209	P	
208	**Pb**	3	**53.100**	ug/l	53.10	1.6	4500	209	P	
238	**U**	3	**52.010**	ug/l	52.01	2.0	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3511565	0.22	5119000	**68.6**	30	-	120	
45	Sc	1	200366	1.51	341400	**58.7**	30	-	120	
45	Sc	2	220486	1.01	273900	**80.5**	30	-	120	
74	Ge	1	174374	0.98	283600	**61.5**	30	-	120	
74	Ge	2	361888	1.53	422600	**85.6**	30	-	120	
74	Ge	3	1466606	0.39	1674000	**87.6**	30	-	120	
103	Rh	2	696151	1.22	814900	**85.4**	30	-	120	
103	Rh	3	1336452	1.50	1535000	**87.1**	30	-	120	
165	Ho	3	2994963	1.73	3236000	**92.6**	30	-	120	
175	Lu	3	3319903	0.92	3584000	**92.6**	30	-	120	
209	Bi	3	6932508	0.97	7619000	**91.0**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\129SMPL.D\129SMPL.D#
Date Acquired: May 28 2010 03:32 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.018**	ug/l	0.02	17.3	450	6	P	
23	**Na**	2	**8.956**	ug/l	8.96	10.8	450000	45	P	
24	**Mg**	2	**2.350**	ug/l	2.35	6.4	450000	45	P	
27	**Al**	2	**0.566**	ug/l	0.57	19.0	450000	45	P	
31	**P**	2	**-5.222**	ug/l	-5.22	132.7	450000	45	P	
39	**K**	2	**12.230**	ug/l	12.23	13.6	450000	45	P	
44	**Ca**	2	**7.849**	ug/l	7.85	20.4	450000	45	P	
47	**Ti**	2	**0.062**	ug/l	0.06	92.9	4500	45	P	
51	**V**	2	**-0.171**	ug/l	-0.17	26.7	4500	45	P	
52	**Cr**	2	**0.013**	ug/l	0.01	167.0	4500	45	P	
54	**Fe**	2	**2.727**	ug/l	2.73	18.9	450000	74	P	
55	**Mn**	2	**0.104**	ug/l	0.10	5.1	15000	45	P	
59	**Co**	2	**0.023**	ug/l	0.02	21.4	4500	45	P	
60	**Ni**	2	**0.122**	ug/l	0.12	55.0	15000	45	P	
63	**Cu**	2	**0.018**	ug/l	0.02	99.9	15000	45	P	
66	**Zn**	2	**0.062**	ug/l	0.06	174.5	15000	45	P	
75	**As**	2	**-0.038**	ug/l	-0.04	37.7	4500	74	P	
78	**Se**	2	**-0.152**	ug/l	-0.15	550.8	4500	74	P	
88	**Sr**	3	**0.015**	ug/l	0.02	24.5	4500	74	P	
95	**Mo**	3	**0.007**	ug/l	0.01	112.5	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.01	37.2	450	103	P	
111	**Cd**	3	**0.013**	ug/l	0.01	55.0	900	103	P	
118	**Sn**	3	**0.069**	ug/l	0.07	8.6	4500	103	P	
121	**Sb**	3	**0.061**	ug/l	0.06	17.7	4500	103	P	
135	**Ba**	3	**0.042**	ug/l	0.04	20.3	4500	103	P	
200	**Hg**	3	**44.060**	ug/l	44.06	0.8	45	209	P	
205	**Tl**	3	**0.685**	ug/l	0.69	8.8	4500	209	P	
208	**Pb**	3	**0.025**	ug/l	0.02	10.2	4500	209	P	
238	**U**	3	**0.012**	ug/l	0.01	7.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3399935	2.19	5119000	**66.4**	30	-	120	
45	Sc	1	198430	0.80	341400	**58.1**	30	-	120	
45	Sc	2	223829	0.65	273900	**81.7**	30	-	120	
74	Ge	1	173828	1.18	283600	**61.3**	30	-	120	
74	Ge	2	371487	0.74	422600	**87.9**	30	-	120	
74	Ge	3	1448040	1.66	1674000	**86.5**	30	-	120	
103	Rh	2	720321	0.66	814900	**88.4**	30	-	120	
103	Rh	3	1363550	0.98	1535000	**88.8**	30	-	120	
165	Ho	3	2971052	1.42	3236000	**91.8**	30	-	120	
175	Lu	3	3308839	1.79	3584000	**92.3**	30	-	120	
209	Bi	3	7177571	0.78	7619000	**94.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\130SMPL.D\130SMPL.D#
Date Acquired: May 28 2010 03:39 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-15-B Vial Number: 4101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.252**	ug/l	12.52	2.8	450	6	P	
23	**Na**	2	**103.700**	ug/l	1,037.00	1.8	450000	45	P	
24	**Mg**	2	**33570.000**	ug/l	335,700.00	1.2	450000	45	A	
27	**Al**	2	**34420.000**	ug/l	344,200.00	1.6	450000	45	A	
31	**P**	2	**675.400**	ug/l	6,754.00	2.2	450000	45	P	
39	**K**	2	**2137.000**	ug/l	21,370.00	0.8	450000	45	P	
44	**Ca**	2	**2880.000**	ug/l	28,800.00	1.1	450000	45	P	
47	**Ti**	2	**79.600**	ug/l	796.00	14.2	4500	45	P	
51	**V**	2	**98.980**	ug/l	989.80	1.8	4500	45	P	
52	**Cr**	2	**344.600**	ug/l	3,446.00	0.9	4500	45	P	
54	**Fe**	2	**85250.000**	ug/l	852,500.00	1.7	450000	74	A	
55	**Mn**	2	**1647.000**	ug/l	16,470.00	0.7	15000	45	A	
59	**Co**	2	**81.780**	ug/l	817.80	0.9	4500	45	P	
60	**Ni**	2	**906.000**	ug/l	9,060.00	0.6	15000	45	P	
63	**Cu**	2	**82.590**	ug/l	825.90	1.1	15000	45	P	
66	**Zn**	2	**178.600**	ug/l	1,786.00	0.8	15000	45	P	
75	**As**	2	**21.340**	ug/l	213.40	1.7	4500	74	P	
78	**Se**	2	**0.862**	ug/l	8.62	28.0	4500	74	P	
88	**Sr**	3	**30.380**	ug/l	303.80	1.5	4500	74	P	
95	**Mo**	3	**1.894**	ug/l	18.94	5.5	4500	74	P	
107	**Ag**	3	**0.180**	ug/l	1.80	11.5	450	103	P	
111	**Cd**	3	**0.359**	ug/l	3.59	17.6	900	103	P	
118	**Sn**	3	**1.299**	ug/l	12.99	1.2	4500	103	P	
121	**Sb**	3	**0.442**	ug/l	4.42	10.1	4500	103	P	
135	**Ba**	3	**438.500**	ug/l	4,385.00	2.6	4500	103	P	
200	**Hg**	3	**745.500**	ug/l	7,455.00	1.6	45	209	A	Fail
205	**Tl**	3	**0.573**	ug/l	5.73	3.6	4500	209	P	
208	**Pb**	3	**36.910**	ug/l	369.10	1.1	4500	209	P	
238	**U**	3	**0.321**	ug/l	3.21	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3233697	1.57	5119000	**63.2**	30	-	120	
45	Sc	1	208169	0.87	341400	**61.0**	30	-	120	
45	Sc	2	235758	0.41	273900	**86.1**	30	-	120	
74	Ge	1	162388	1.51	283600	**57.3**	30	-	120	
74	Ge	2	354045	2.07	422600	**83.8**	30	-	120	
74	Ge	3	1436157	2.21	1674000	**85.8**	30	-	120	
103	Rh	2	671438	1.02	814900	**82.4**	30	-	120	
103	Rh	3	1317775	2.40	1535000	**85.8**	30	-	120	
165	Ho	3	3023569	1.13	3236000	**93.4**	30	-	120	
175	Lu	3	3357138	0.71	3584000	**93.7**	30	-	120	
209	Bi	3	6737754	0.75	7619000	**88.4**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\131SMPL.D\131SMPL.D#
Date Acquired: May 28 2010 03:47 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-16-B Vial Number: 4102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.186**	ug/l	11.86	3.5	450	6	P	
23	**Na**	2	**80.050**	ug/l	800.50	4.4	450000	45	P	
24	**Mg**	2	**17530.000**	ug/l	175,300.00	0.7	450000	45	A	
27	**Al**	2	**33520.000**	ug/l	335,200.00	0.0	450000	45	A	
31	**P**	2	**1011.000**	ug/l	10,110.00	0.7	450000	45	P	
39	**K**	2	**3474.000**	ug/l	34,740.00	1.0	450000	45	A	
44	**Ca**	2	**4382.000**	ug/l	43,820.00	1.0	450000	45	P	
47	**Ti**	2	**89.760**	ug/l	897.60	2.2	4500	45	P	
51	**V**	2	**86.910**	ug/l	869.10	0.7	4500	45	P	
52	**Cr**	2	**230.500**	ug/l	2,305.00	0.7	4500	45	P	
54	**Fe**	2	**75570.000**	ug/l	755,700.00	0.3	450000	74	A	
55	**Mn**	2	**1345.000**	ug/l	13,450.00	1.0	15000	45	A	
59	**Co**	2	**48.720**	ug/l	487.20	1.8	4500	45	P	
60	**Ni**	2	**420.300**	ug/l	4,203.00	0.9	15000	45	P	
63	**Cu**	2	**109.200**	ug/l	1,092.00	0.9	15000	45	P	
66	**Zn**	2	**226.800**	ug/l	2,268.00	1.6	15000	45	P	
75	**As**	2	**17.730**	ug/l	177.30	0.8	4500	74	P	
78	**Se**	2	**0.996**	ug/l	9.96	17.7	4500	74	P	
88	**Sr**	3	**32.830**	ug/l	328.30	1.2	4500	74	P	
95	**Mo**	3	**1.425**	ug/l	14.25	4.8	4500	74	P	
107	**Ag**	3	**0.117**	ug/l	1.17	10.4	450	103	P	
111	**Cd**	3	**0.484**	ug/l	4.84	4.8	900	103	P	
118	**Sn**	3	**1.957**	ug/l	19.57	6.6	4500	103	P	
121	**Sb**	3	**1.361**	ug/l	13.61	3.6	4500	103	P	
135	**Ba**	3	**461.300**	ug/l	4,613.00	3.2	4500	103	P	
200	**Hg**	3	**1328.000**	ug/l	13,280.00	0.6	45	209	A	Fail
205	**Tl**	3	**0.474**	ug/l	4.74	6.2	4500	209	P	
208	**Pb**	3	**250.900**	ug/l	2,509.00	0.3	4500	209	A	
238	**U**	3	**0.331**	ug/l	3.31	5.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3252827	0.73	5119000	**63.5**	30	-	120	
45	Sc	1	195640	1.34	341400	**57.3**	30	-	120	
45	Sc	2	229481	0.76	273900	**83.8**	30	-	120	
74	Ge	1	152256	1.31	283600	**53.7**	30	-	120	
74	Ge	2	345859	1.04	422600	**81.8**	30	-	120	
74	Ge	3	1341073	1.92	1674000	**80.1**	30	-	120	
103	Rh	2	659979	1.01	814900	**81.0**	30	-	120	
103	Rh	3	1249960	2.47	1535000	**81.4**	30	-	120	
165	Ho	3	2901084	0.31	3236000	**89.7**	30	-	120	
175	Lu	3	3202416	0.95	3584000	**89.4**	30	-	120	
209	Bi	3	6595326	0.63	7619000	**86.6**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\132SMPL.D\132SMPL.D#
Date Acquired: May 28 2010 03:54 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-17-B Vial Number: 4103
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.146**	ug/l	11.46	3.2	450	6	P	
23	**Na**	2	**76.880**	ug/l	768.80	5.7	450000	45	P	
24	**Mg**	2	**127200.000**	ug/l	1,272,000.00	1.1	450000	45	A	
27	**Al**	2	**30250.000**	ug/l	302,500.00	0.3	450000	45	A	
31	**P**	2	**795.200**	ug/l	7,952.00	4.1	450000	45	P	
39	**K**	2	**2870.000**	ug/l	28,700.00	1.1	450000	45	A	
44	**Ca**	2	**3244.000**	ug/l	32,440.00	1.2	450000	45	P	
47	**Ti**	2	**102.200**	ug/l	1,022.00	4.0	4500	45	P	
51	**V**	2	**98.500**	ug/l	985.00	0.7	4500	45	P	
52	**Cr**	2	**612.800**	ug/l	6,128.00	0.2	4500	45	A	
54	**Fe**	2	**107100.000**	ug/l	1,071,000.00	1.2	450000	74	A	
55	**Mn**	2	**1660.000**	ug/l	16,600.00	0.6	15000	45	A	
59	**Co**	2	**137.200**	ug/l	1,372.00	0.6	4500	45	P	
60	**Ni**	2	**2406.000**	ug/l	24,060.00	1.3	15000	45	A	
63	**Cu**	2	**72.230**	ug/l	722.30	0.3	15000	45	P	
66	**Zn**	2	**203.400**	ug/l	2,034.00	1.0	15000	45	P	
75	**As**	2	**15.540**	ug/l	155.40	1.6	4500	74	P	
78	**Se**	2	**1.177**	ug/l	11.77	46.4	4500	74	P	
88	**Sr**	3	**21.830**	ug/l	218.30	0.5	4500	74	P	
95	**Mo**	3	**1.126**	ug/l	11.26	8.4	4500	74	P	
107	**Ag**	3	**0.130**	ug/l	1.30	19.7	450	103	P	
111	**Cd**	3	**0.354**	ug/l	3.54	6.4	900	103	P	
118	**Sn**	3	**1.362**	ug/l	13.62	5.7	4500	103	P	
121	**Sb**	3	**0.549**	ug/l	5.49	4.4	4500	103	P	
135	**Ba**	3	**552.200**	ug/l	5,522.00	0.5	4500	103	P	
200	**Hg**	3	**392.900**	ug/l	3,929.00	0.1	45	209	P	Fail
205	**Tl**	3	**0.350**	ug/l	3.50	2.6	4500	209	P	
208	**Pb**	3	**27.990**	ug/l	279.90	0.5	4500	209	P	
238	**U**	3	**0.392**	ug/l	3.92	0.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3280978	0.85	5119000	**64.1**	30	-	120	
45	Sc	1	195565	1.42	341400	**57.3**	30	-	120	
45	Sc	2	236480	0.71	273900	**86.3**	30	-	120	
74	Ge	1	148021	3.80	283600	**52.2**	30	-	120	
74	Ge	2	346008	1.40	422600	**81.9**	30	-	120	
74	Ge	3	1414206	0.46	1674000	**84.5**	30	-	120	
103	Rh	2	650335	0.51	814900	**79.8**	30	-	120	
103	Rh	3	1272919	0.97	1535000	**82.9**	30	-	120	
165	Ho	3	2926850	1.30	3236000	**90.4**	30	-	120	
175	Lu	3	3266921	0.51	3584000	**91.2**	30	-	120	
209	Bi	3	6399828	0.26	7619000	**84.0**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\133SMPL.D\133SMPL.D#
Date Acquired: May 28 2010 04:01 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-18-B Vial Number: 4104
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.486**	ug/l	14.86	4.0	450	6	P	
23	**Na**	2	**82.310**	ug/l	823.10	2.5	450000	45	P	
24	**Mg**	2	**33320.000**	ug/l	333,200.00	0.9	450000	45	A	
27	**Al**	2	**38950.000**	ug/l	389,500.00	0.7	450000	45	A	
31	**P**	2	**693.800**	ug/l	6,938.00	1.5	450000	45	P	
39	**K**	2	**2485.000**	ug/l	24,850.00	2.1	450000	45	M	
44	**Ca**	2	**1622.000**	ug/l	16,220.00	3.0	450000	45	P	
47	**Ti**	2	**56.270**	ug/l	562.70	2.9	4500	45	P	
51	**V**	2	**99.870**	ug/l	998.70	0.8	4500	45	P	
52	**Cr**	2	**417.300**	ug/l	4,173.00	1.5	4500	45	A	
54	**Fe**	2	**89170.000**	ug/l	891,700.00	1.5	450000	74	A	
55	**Mn**	2	**2186.000**	ug/l	21,860.00	0.7	15000	45	A	
59	**Co**	2	**79.940**	ug/l	799.40	0.6	4500	45	P	
60	**Ni**	2	**951.600**	ug/l	9,516.00	0.1	15000	45	P	
63	**Cu**	2	**144.500**	ug/l	1,445.00	0.6	15000	45	P	
66	**Zn**	2	**176.800**	ug/l	1,768.00	0.7	15000	45	P	
75	**As**	2	**21.180**	ug/l	211.80	1.7	4500	74	P	
78	**Se**	2	**0.504**	ug/l	5.04	81.1	4500	74	P	
88	**Sr**	3	**21.830**	ug/l	218.30	0.8	4500	74	P	
95	**Mo**	3	**5.156**	ug/l	51.56	1.5	4500	74	P	
107	**Ag**	3	**0.068**	ug/l	0.68	16.3	450	103	P	
111	**Cd**	3	**0.277**	ug/l	2.77	10.1	900	103	P	
118	**Sn**	3	**1.425**	ug/l	14.25	4.0	4500	103	P	
121	**Sb**	3	**0.479**	ug/l	4.79	7.6	4500	103	P	
135	**Ba**	3	**649.700**	ug/l	6,497.00	0.8	4500	103	P	
200	**Hg**	3	**349.300**	ug/l	3,493.00	0.7	45	209	P	Fail
205	**Tl**	3	**0.330**	ug/l	3.30	6.3	4500	209	P	
208	**Pb**	3	**33.110**	ug/l	331.10	0.8	4500	209	P	
238	**U**	3	**0.257**	ug/l	2.57	2.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3414273	1.21	5119000	**66.7**	30	-	120	
45	Sc	1	192762	0.51	341400	**56.5**	30	-	120	
45	Sc	2	238401	0.44	273900	**87.0**	30	-	120	
74	Ge	1	146889	2.39	283600	**51.8**	30	-	120	
74	Ge	2	354074	0.38	422600	**83.8**	30	-	120	
74	Ge	3	1466972	0.81	1674000	**87.6**	30	-	120	
103	Rh	2	665774	0.69	814900	**81.7**	30	-	120	
103	Rh	3	1341915	1.12	1535000	**87.4**	30	-	120	
165	Ho	3	3015882	1.30	3236000	**93.2**	30	-	120	
175	Lu	3	3357165	0.59	3584000	**93.7**	30	-	120	
209	Bi	3	6711187	0.98	7619000	**88.1**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\134SMPL.D\134SMPL.D#
Date Acquired: May 28 2010 04:08 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-19-B Vial Number: 4105
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.141**	ug/l	11.41	2.4	450	6	P	
23	**Na**	2	**136.300**	ug/l	1,363.00	1.2	450000	45	P	
24	**Mg**	2	**29800.000**	ug/l	298,000.00	0.9	450000	45	A	
27	**Al**	2	**31190.000**	ug/l	311,900.00	0.7	450000	45	A	
31	**P**	2	**949.200**	ug/l	9,492.00	4.9	450000	45	P	
39	**K**	2	**3289.000**	ug/l	32,890.00	1.7	450000	45	A	
44	**Ca**	2	**4192.000**	ug/l	41,920.00	0.2	450000	45	P	
47	**Ti**	2	**127.200**	ug/l	1,272.00	3.4	4500	45	P	
51	**V**	2	**89.280**	ug/l	892.80	1.1	4500	45	P	
52	**Cr**	2	**367.500**	ug/l	3,675.00	0.5	4500	45	P	
54	**Fe**	2	**78270.000**	ug/l	782,700.00	1.5	450000	74	A	
55	**Mn**	2	**1670.000**	ug/l	16,700.00	1.2	15000	45	A	
59	**Co**	2	**77.920**	ug/l	779.20	0.8	4500	45	P	
60	**Ni**	2	**1142.000**	ug/l	11,420.00	0.7	15000	45	P	
63	**Cu**	2	**93.510**	ug/l	935.10	0.6	15000	45	P	
66	**Zn**	2	**233.200**	ug/l	2,332.00	1.0	15000	45	P	
75	**As**	2	**14.220**	ug/l	142.20	1.8	4500	74	P	
78	**Se**	2	**-0.132**	ug/l	-1.32	232.9	4500	74	P	
88	**Sr**	3	**41.720**	ug/l	417.20	0.6	4500	74	P	
95	**Mo**	3	**3.515**	ug/l	35.15	3.9	4500	74	P	
107	**Ag**	3	**0.125**	ug/l	1.25	9.4	450	103	P	
111	**Cd**	3	**0.487**	ug/l	4.87	16.8	900	103	P	
118	**Sn**	3	**1.998**	ug/l	19.98	1.8	4500	103	P	
121	**Sb**	3	**1.292**	ug/l	12.92	0.6	4500	103	P	
135	**Ba**	3	**551.600**	ug/l	5,516.00	0.2	4500	103	P	
200	**Hg**	3	**1052.000**	ug/l	10,520.00	1.1	45	209	A	Fail
205	**Tl**	3	**0.303**	ug/l	3.03	3.2	4500	209	P	
208	**Pb**	3	**126.500**	ug/l	1,265.00	0.7	4500	209	A	
238	**U**	3	**0.362**	ug/l	3.62	1.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3504359	0.71	5119000	**68.5**	30	-	120	
45	Sc	1	186564	0.22	341400	**54.6**	30	-	120	
45	Sc	2	241439	0.52	273900	**88.1**	30	-	120	
74	Ge	1	143797	1.45	283600	**50.7**	30	-	120	
74	Ge	2	357348	1.10	422600	**84.6**	30	-	120	
74	Ge	3	1463543	0.48	1674000	**87.4**	30	-	120	
103	Rh	2	682146	1.36	814900	**83.7**	30	-	120	
103	Rh	3	1339332	0.52	1535000	**87.3**	30	-	120	
165	Ho	3	3045249	0.66	3236000	**94.1**	30	-	120	
175	Lu	3	3340997	1.56	3584000	**93.2**	30	-	120	
209	Bi	3	6767508	1.21	7619000	**88.8**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\135SMPL.D\135SMPL.D#
Date Acquired: May 28 2010 04:15 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-20-B Vial Number: 4106
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.886**	ug/l	8.86	1.2	450	6	P	
23	**Na**	2	**67.060**	ug/l	670.60	4.0	450000	45	P	
24	**Mg**	2	**83020.000**	ug/l	830,200.00	1.7	450000	45	A	
27	**Al**	2	**22090.000**	ug/l	220,900.00	1.2	450000	45	A	
31	**P**	2	**692.600**	ug/l	6,926.00	1.9	450000	45	P	
39	**K**	2	**2000.000**	ug/l	20,000.00	1.7	450000	45	P	
44	**Ca**	2	**3347.000**	ug/l	33,470.00	3.3	450000	45	P	
47	**Ti**	2	**101.300**	ug/l	1,013.00	3.8	4500	45	P	
51	**V**	2	**82.950**	ug/l	829.50	1.8	4500	45	P	
52	**Cr**	2	**451.000**	ug/l	4,510.00	0.9	4500	45	A	
54	**Fe**	2	**85500.000**	ug/l	855,000.00	1.9	450000	74	A	
55	**Mn**	2	**1502.000**	ug/l	15,020.00	1.7	15000	45	A	
59	**Co**	2	**113.800**	ug/l	1,138.00	1.4	4500	45	P	
60	**Ni**	2	**1972.000**	ug/l	19,720.00	2.0	15000	45	A	
63	**Cu**	2	**55.210**	ug/l	552.10	1.8	15000	45	P	
66	**Zn**	2	**121.400**	ug/l	1,214.00	0.7	15000	45	P	
75	**As**	2	**14.800**	ug/l	148.00	5.5	4500	74	P	
78	**Se**	2	**0.861**	ug/l	8.61	32.1	4500	74	P	
88	**Sr**	3	**18.800**	ug/l	188.00	0.9	4500	74	P	
95	**Mo**	3	**0.642**	ug/l	6.42	6.2	4500	74	P	
107	**Ag**	3	**0.080**	ug/l	0.80	10.9	450	103	P	
111	**Cd**	3	**0.227**	ug/l	2.27	19.5	900	103	P	
118	**Sn**	3	**0.866**	ug/l	8.66	1.8	4500	103	P	
121	**Sb**	3	**0.509**	ug/l	5.09	4.1	4500	103	P	
135	**Ba**	3	**356.700**	ug/l	3,567.00	0.5	4500	103	P	
200	**Hg**	3	**197.700**	ug/l	1,977.00	1.9	45	209	P	Fail
205	**Tl**	3	**0.254**	ug/l	2.54	5.1	4500	209	P	
208	**Pb**	3	**44.950**	ug/l	449.50	1.3	4500	209	P	
238	**U**	3	**0.320**	ug/l	3.20	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3386836	0.54	5119000	**66.2**	30	-	120	
45	Sc	1	164796	1.36	341400	**48.3**	30	-	120	
45	Sc	2	237012	0.67	273900	**86.5**	30	-	120	
74	Ge	1	128234	2.32	283600	**45.2**	30	-	120	
74	Ge	2	354926	0.93	422600	**84.0**	30	-	120	
74	Ge	3	1435823	0.94	1674000	**85.8**	30	-	120	
103	Rh	2	668284	1.48	814900	**82.0**	30	-	120	
103	Rh	3	1291272	1.16	1535000	**84.1**	30	-	120	
165	Ho	3	2956301	0.34	3236000	**91.4**	30	-	120	
175	Lu	3	3278151	0.70	3584000	**91.5**	30	-	120	
209	Bi	3	6464435	0.99	7619000	**84.8**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\136SMPL.D\136SMPL.D#
Date Acquired: May 28 2010 04:22 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-21-B Vial Number: 4107
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.087**	ug/l	0.87	6.7	450	6	P	
23	**Na**	2	**90.120**	ug/l	901.20	3.2	450000	45	P	
24	**Mg**	2	**4803.000**	ug/l	48,030.00	0.7	450000	45	A	
27	**Al**	2	**13980.000**	ug/l	139,800.00	1.7	450000	45	A	
31	**P**	2	**221.600**	ug/l	2,216.00	1.8	450000	45	P	
39	**K**	2	**1101.000**	ug/l	11,010.00	1.7	450000	45	P	
44	**Ca**	2	**369.200**	ug/l	3,692.00	4.8	450000	45	P	
47	**Ti**	2	**10.350**	ug/l	103.50	9.3	4500	45	P	
51	**V**	2	**67.850**	ug/l	678.50	0.9	4500	45	P	
52	**Cr**	2	**470.700**	ug/l	4,707.00	2.0	4500	45	A	
54	**Fe**	2	**171200.000**	ug/l	1,712,000.00	0.4	450000	74	A	
55	**Mn**	2	**141.400**	ug/l	1,414.00	0.6	15000	45	P	
59	**Co**	2	**68.430**	ug/l	684.30	0.8	4500	45	P	
60	**Ni**	2	**489.200**	ug/l	4,892.00	1.1	15000	45	P	
63	**Cu**	2	**76.290**	ug/l	762.90	1.7	15000	45	P	
66	**Zn**	2	**90.950**	ug/l	909.50	0.7	15000	45	P	
75	**As**	2	**12.220**	ug/l	122.20	4.5	4500	74	P	
78	**Se**	2	**0.874**	ug/l	8.74	75.8	4500	74	P	
88	**Sr**	3	**11.200**	ug/l	112.00	0.9	4500	74	P	
95	**Mo**	3	**1.590**	ug/l	15.90	1.2	4500	74	P	
107	**Ag**	3	**0.125**	ug/l	1.25	14.0	450	103	P	
111	**Cd**	3	**0.013**	ug/l	0.13	153.5	900	103	P	
118	**Sn**	3	**1.303**	ug/l	13.03	4.8	4500	103	P	
121	**Sb**	3	**0.387**	ug/l	3.87	2.7	4500	103	P	
135	**Ba**	3	**185.700**	ug/l	1,857.00	2.7	4500	103	P	
200	**Hg**	3	**3348.000**	ug/l	33,480.00	0.5	45	209	A	Fail
205	**Tl**	3	**6.299**	ug/l	62.99	1.3	4500	209	P	
208	**Pb**	3	**14.110**	ug/l	141.10	1.5	4500	209	P	
238	**U**	3	**0.172**	ug/l	1.72	2.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2982550	1.39	5119000	**58.3**	30	-	120	
45	Sc	1	160661	0.55	341400	**47.1**	30	-	120	
45	Sc	2	212444	2.03	273900	**77.6**	30	-	120	
74	Ge	1	130605	0.31	283600	**46.1**	30	-	120	
74	Ge	2	332379	0.40	422600	**78.7**	30	-	120	
74	Ge	3	1320119	0.44	1674000	**78.9**	30	-	120	
103	Rh	2	644718	0.87	814900	**79.1**	30	-	120	
103	Rh	3	1255091	1.83	1535000	**81.8**	30	-	120	
165	Ho	3	2894699	1.20	3236000	**89.5**	30	-	120	
175	Lu	3	3255822	0.83	3584000	**90.8**	30	-	120	
209	Bi	3	6688028	0.34	7619000	**87.8**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\137SMPL.D\137SMPL.D#
Date Acquired: May 28 2010 04:29 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-22-B Vial Number: 4108
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.026**	ug/l	0.26	14.2	450	6	P	
23	**Na**	2	**56.170**	ug/l	561.70	0.5	450000	45	P	
24	**Mg**	2	**244100.000**	ug/l	2,441,000.00	2.2	450000	45	A	
27	**Al**	2	**3728.000**	ug/l	37,280.00	0.7	450000	45	P	
31	**P**	2	**284.900**	ug/l	2,849.00	3.5	450000	45	P	
39	**K**	2	**193.900**	ug/l	1,939.00	2.5	450000	45	P	
44	**Ca**	2	**1246.000**	ug/l	12,460.00	0.7	450000	45	P	
47	**Ti**	2	**36.970**	ug/l	369.70	1.3	4500	45	P	
51	**V**	2	**44.140**	ug/l	441.40	2.0	4500	45	P	
52	**Cr**	2	**1505.000**	ug/l	15,050.00	1.4	4500	45	A	
54	**Fe**	2	**127800.000**	ug/l	1,278,000.00	0.7	450000	74	A	
55	**Mn**	2	**1969.000**	ug/l	19,690.00	0.9	15000	45	A	
59	**Co**	2	**230.400**	ug/l	2,304.00	0.5	4500	45	P	
60	**Ni**	2	**4423.000**	ug/l	44,230.00	1.1	15000	45	A	
63	**Cu**	2	**14.510**	ug/l	145.10	1.5	15000	45	P	
66	**Zn**	2	**72.980**	ug/l	729.80	1.9	15000	45	P	
75	**As**	2	**1.980**	ug/l	19.80	6.8	4500	74	P	
78	**Se**	2	**0.014**	ug/l	0.14	3209.6	4500	74	P	
88	**Sr**	3	**7.712**	ug/l	77.12	2.0	4500	74	P	
95	**Mo**	3	**0.347**	ug/l	3.47	13.3	4500	74	P	
107	**Ag**	3	**0.029**	ug/l	0.29	38.4	450	103	P	
111	**Cd**	3	**0.055**	ug/l	0.55	62.9	900	103	P	
118	**Sn**	3	**0.210**	ug/l	2.10	3.6	4500	103	P	
121	**Sb**	3	**0.124**	ug/l	1.24	13.7	4500	103	P	
135	**Ba**	3	**45.040**	ug/l	450.40	2.0	4500	103	P	
200	**Hg**	3	**142.600**	ug/l	1,426.00	1.5	45	209	P	Fail
205	**Tl**	3	**0.185**	ug/l	1.85	5.2	4500	209	P	
208	**Pb**	3	**13.640**	ug/l	136.40	0.9	4500	209	P	
238	**U**	3	**0.034**	ug/l	0.34	2.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3033401	0.38	5119000	**59.3**	30	-	120	
45	Sc	1	161900	3.01	341400	**47.4**	30	-	120	
45	Sc	2	224571	1.54	273900	**82.0**	30	-	120	
74	Ge	1	121423	2.77	283600	**42.8**	30	-	120	
74	Ge	2	330868	0.78	422600	**78.3**	30	-	120	
74	Ge	3	1339207	1.90	1674000	**80.0**	30	-	120	
103	Rh	2	620570	1.81	814900	**76.2**	30	-	120	
103	Rh	3	1218450	1.40	1535000	**79.4**	30	-	120	
165	Ho	3	2838514	0.95	3236000	**87.7**	30	-	120	
175	Lu	3	3182626	0.56	3584000	**88.8**	30	-	120	
209	Bi	3	6206236	0.79	7619000	**81.5**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\138SMPL.D\138SMPL.D#
Date Acquired: May 28 2010 04:36 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-23-B Vial Number: 4109
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.561**	ug/l	5.61	1.4	450	6	P	
23	**Na**	2	**203.500**	ug/l	2,035.00	1.9	450000	45	P	
24	**Mg**	2	**27240.000**	ug/l	272,400.00	0.6	450000	45	A	
27	**Al**	2	**18470.000**	ug/l	184,700.00	0.6	450000	45	A	
31	**P**	2	**608.200**	ug/l	6,082.00	3.3	450000	45	P	
39	**K**	2	**1922.000**	ug/l	19,220.00	1.2	450000	45	P	
44	**Ca**	2	**6406.000**	ug/l	64,060.00	1.0	450000	45	P	
47	**Ti**	2	**332.500**	ug/l	3,325.00	0.3	4500	45	P	
51	**V**	2	**46.010**	ug/l	460.10	1.7	4500	45	P	
52	**Cr**	2	**249.400**	ug/l	2,494.00	1.1	4500	45	P	
54	**Fe**	2	**38770.000**	ug/l	387,700.00	0.4	450000	74	A	
55	**Mn**	2	**689.100**	ug/l	6,891.00	1.1	15000	45	A	
59	**Co**	2	**38.440**	ug/l	384.40	0.7	4500	45	P	
60	**Ni**	2	**538.600**	ug/l	5,386.00	0.3	15000	45	P	
63	**Cu**	2	**24.680**	ug/l	246.80	2.2	15000	45	P	
66	**Zn**	2	**74.920**	ug/l	749.20	1.7	15000	45	P	
75	**As**	2	**8.622**	ug/l	86.22	1.8	4500	74	P	
78	**Se**	2	**0.449**	ug/l	4.49	95.1	4500	74	P	
88	**Sr**	3	**52.640**	ug/l	526.40	1.2	4500	74	P	
95	**Mo**	3	**0.834**	ug/l	8.34	11.3	4500	74	P	
107	**Ag**	3	**0.071**	ug/l	0.71	13.4	450	103	P	
111	**Cd**	3	**0.352**	ug/l	3.52	5.4	900	103	P	
118	**Sn**	3	**2.956**	ug/l	29.56	2.8	4500	103	P	
121	**Sb**	3	**0.588**	ug/l	5.88	1.4	4500	103	P	
135	**Ba**	3	**242.800**	ug/l	2,428.00	2.2	4500	103	P	
200	**Hg**	3	**485.000**	ug/l	4,850.00	0.8	45	209	P	Fail
205	**Tl**	3	**0.238**	ug/l	2.38	2.3	4500	209	P	
208	**Pb**	3	**148.000**	ug/l	1,480.00	1.2	4500	209	A	
238	**U**	3	**0.708**	ug/l	7.08	4.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3499672	1.60	5119000	**68.4**	30	-	120	
45	Sc	1	160951	0.76	341400	**47.1**	30	-	120	
45	Sc	2	218466	0.13	273900	**79.8**	30	-	120	
74	Ge	1	129709	1.40	283600	**45.7**	30	-	120	
74	Ge	2	344022	0.46	422600	**81.4**	30	-	120	
74	Ge	3	1406930	1.36	1674000	**84.0**	30	-	120	
103	Rh	2	655492	0.82	814900	**80.4**	30	-	120	
103	Rh	3	1276763	1.04	1535000	**83.2**	30	-	120	
165	Ho	3	2926571	0.52	3236000	**90.4**	30	-	120	
175	Lu	3	3260625	0.76	3584000	**91.0**	30	-	120	
209	Bi	3	6726614	0.46	7619000	**88.3**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\139SMPL.D\139SMPL.D#
Date Acquired: May 28 2010 04:43 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-24-B Vial Number: 4110
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.010**	ug/l	0.10	16.5	450	6	P	
23	**Na**	2	**31.750**	ug/l	317.50	20.4	450000	45	P	
24	**Mg**	2	**880.100**	ug/l	8,801.00	1.9	450000	45	P	
27	**Al**	2	**165.300**	ug/l	1,653.00	14.7	450000	45	P	
31	**P**	2	**9.406**	ug/l	94.06	44.7	450000	45	P	
39	**K**	2	**195.300**	ug/l	1,953.00	20.2	450000	45	P	
44	**Ca**	2	**139.800**	ug/l	1,398.00	5.8	450000	45	P	
47	**Ti**	2	**13.000**	ug/l	130.00	25.2	4500	45	P	
51	**V**	2	**0.042**	ug/l	0.42	148.4	4500	45	P	
52	**Cr**	2	**2.283**	ug/l	22.83	6.6	4500	45	P	
54	**Fe**	2	**326.400**	ug/l	3,264.00	3.4	450000	74	P	
55	**Mn**	2	**9.113**	ug/l	91.13	3.0	15000	45	P	
59	**Co**	2	**1.014**	ug/l	10.14	0.2	4500	45	P	
60	**Ni**	2	**11.390**	ug/l	113.90	11.2	15000	45	P	
63	**Cu**	2	**1.962**	ug/l	19.62	2.3	15000	45	P	
66	**Zn**	2	**0.622**	ug/l	6.22	12.0	15000	45	P	
75	**As**	2	**0.137**	ug/l	1.37	19.7	4500	74	P	
78	**Se**	2	**-0.217**	ug/l	-2.17	122.5	4500	74	P	
88	**Sr**	3	**1.179**	ug/l	11.79	3.5	4500	74	P	
95	**Mo**	3	**0.068**	ug/l	0.68	57.4	4500	74	P	
107	**Ag**	3	**-0.003**	ug/l	-0.03	24.2	450	103	P	
111	**Cd**	3	**-0.007**	ug/l	-0.07	121.3	900	103	P	
118	**Sn**	3	**0.029**	ug/l	0.29	40.8	4500	103	P	
121	**Sb**	3	**0.013**	ug/l	0.13	67.7	4500	103	P	
135	**Ba**	3	**3.362**	ug/l	33.62	5.7	4500	103	P	
200	**Hg**	3	**97.030**	ug/l	970.30	4.6	45	209	P	Fail
205	**Tl**	3	**0.081**	ug/l	0.81	12.7	4500	209	P	
208	**Pb**	3	**9.390**	ug/l	93.90	1.0	4500	209	P	
238	**U**	3	**0.005**	ug/l	0.05	104.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3953365	0.94	5119000	**77.2**	30	-	120	
45	Sc	1	166251	1.48	341400	**48.7**	30	-	120	
45	Sc	2	215942	2.10	273900	**78.8**	30	-	120	
74	Ge	1	138752	2.19	283600	**48.9**	30	-	120	
74	Ge	2	353750	1.22	422600	**83.7**	30	-	120	
74	Ge	3	1403868	1.70	1674000	**83.9**	30	-	120	
103	Rh	2	690236	1.06	814900	**84.7**	30	-	120	
103	Rh	3	1313554	1.01	1535000	**85.6**	30	-	120	
165	Ho	3	2902084	1.41	3236000	**89.7**	30	-	120	
175	Lu	3	3284780	0.18	3584000	**91.7**	30	-	120	
209	Bi	3	6897725	0.97	7619000	**90.5**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\140SMPL.D\140SMPL.D#
Date Acquired: May 28 2010 04:50 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**50.890**	ug/l	50.89	1.4	450	6	P	
23	**Na**	2	**5007.000**	ug/l	5,007.00	0.6	450000	45	A	
24	**Mg**	2	**5096.000**	ug/l	5,096.00	0.9	450000	45	A	
27	**Al**	2	**492.800**	ug/l	492.80	1.0	450000	45	P	
31	**P**	2	**4865.000**	ug/l	4,865.00	0.3	450000	45	P	
39	**K**	2	**5159.000**	ug/l	5,159.00	1.9	450000	45	A	
44	**Ca**	2	**5208.000**	ug/l	5,208.00	1.8	450000	45	P	
47	**Ti**	2	**51.980**	ug/l	51.98	2.4	4500	45	P	
51	**V**	2	**52.470**	ug/l	52.47	0.8	4500	45	P	
52	**Cr**	2	**52.590**	ug/l	52.59	1.2	4500	45	P	
54	**Fe**	2	**5172.000**	ug/l	5,172.00	1.6	450000	74	P	
55	**Mn**	2	**53.220**	ug/l	53.22	0.6	15000	45	P	
59	**Co**	2	**53.420**	ug/l	53.42	0.7	4500	45	P	
60	**Ni**	2	**54.760**	ug/l	54.76	0.8	15000	45	P	
63	**Cu**	2	**53.830**	ug/l	53.83	1.6	15000	45	P	
66	**Zn**	2	**52.910**	ug/l	52.91	1.7	15000	45	P	
75	**As**	2	**51.860**	ug/l	51.86	1.6	4500	74	P	
78	**Se**	2	**49.680**	ug/l	49.68	3.6	4500	74	P	
88	**Sr**	3	**53.360**	ug/l	53.36	1.9	4500	74	P	
95	**Mo**	3	**53.420**	ug/l	53.42	2.5	4500	74	P	
107	**Ag**	3	**52.520**	ug/l	52.52	1.8	450	103	P	
111	**Cd**	3	**52.320**	ug/l	52.32	3.0	900	103	P	
118	**Sn**	3	**52.640**	ug/l	52.64	3.3	4500	103	P	
121	**Sb**	3	**53.140**	ug/l	53.14	3.8	4500	103	P	
135	**Ba**	3	**54.520**	ug/l	54.52	3.8	4500	103	P	
200	**Hg**	3	**26.470**	ug/l	26.47	1.8	45	209	P	
205	**Tl**	3	**51.890**	ug/l	51.89	2.1	4500	209	P	
208	**Pb**	3	**52.910**	ug/l	52.91	1.4	4500	209	P	
238	**U**	3	**52.120**	ug/l	52.12	2.6	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3881033	0.39	5119000	**75.8**	30	-	120	
45	Sc	1	167636	1.32	341400	**49.1**	30	-	120	
45	Sc	2	218500	0.63	273900	**79.8**	30	-	120	
74	Ge	1	144346	1.70	283600	**50.9**	30	-	120	
74	Ge	2	354020	1.00	422600	**83.8**	30	-	120	
74	Ge	3	1442473	0.69	1674000	**86.2**	30	-	120	
103	Rh	2	686176	0.59	814900	**84.2**	30	-	120	
103	Rh	3	1309092	2.16	1535000	**85.3**	30	-	120	
165	Ho	3	2947787	1.46	3236000	**91.1**	30	-	120	
175	Lu	3	3293928	1.26	3584000	**91.9**	30	-	120	
209	Bi	3	6841933	0.91	7619000	**89.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\141SMPL.D\141SMPL.D#
Date Acquired: May 28 2010 04:58 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.014**	ug/l	0.01	19.8	450	6	P	
23	**Na**	2	**3.761**	ug/l	3.76	18.7	450000	45	P	
24	**Mg**	2	**3.477**	ug/l	3.48	8.2	450000	45	P	
27	**Al**	2	**0.801**	ug/l	0.80	16.1	450000	45	P	
31	**P**	2	**-7.462**	ug/l	-7.46	70.5	450000	45	P	
39	**K**	2	**5.011**	ug/l	5.01	88.3	450000	45	P	
44	**Ca**	2	**2.638**	ug/l	2.64	64.8	450000	45	P	
47	**Ti**	2	**0.027**	ug/l	0.03	96.4	4500	45	P	
51	**V**	2	**-0.070**	ug/l	-0.07	71.9	4500	45	P	
52	**Cr**	2	**0.026**	ug/l	0.03	36.3	4500	45	P	
54	**Fe**	2	**2.356**	ug/l	2.36	10.8	450000	74	P	
55	**Mn**	2	**0.148**	ug/l	0.15	12.2	15000	45	P	
59	**Co**	2	**0.023**	ug/l	0.02	13.0	4500	45	P	
60	**Ni**	2	**0.103**	ug/l	0.10	12.4	15000	45	P	
63	**Cu**	2	**0.029**	ug/l	0.03	42.1	15000	45	P	
66	**Zn**	2	**0.068**	ug/l	0.07	80.3	15000	45	P	
75	**As**	2	**-0.051**	ug/l	-0.05	55.4	4500	74	P	
78	**Se**	2	**0.038**	ug/l	0.04	692.3	4500	74	P	
88	**Sr**	3	**0.014**	ug/l	0.01	30.4	4500	74	P	
95	**Mo**	3	**0.009**	ug/l	0.01	227.6	4500	74	P	
107	**Ag**	3	**0.016**	ug/l	0.02	88.2	450	103	P	
111	**Cd**	3	**0.016**	ug/l	0.02	15.8	900	103	P	
118	**Sn**	3	**0.030**	ug/l	0.03	37.6	4500	103	P	
121	**Sb**	3	**0.024**	ug/l	0.02	49.5	4500	103	P	
135	**Ba**	3	**0.027**	ug/l	0.03	56.7	4500	103	P	
200	**Hg**	3	**22.730**	ug/l	22.73	15.5	45	209	P	
205	**Tl**	3	**0.425**	ug/l	0.42	12.1	4500	209	P	
208	**Pb**	3	**0.021**	ug/l	0.02	22.1	4500	209	P	
238	**U**	3	**0.012**	ug/l	0.01	17.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3534278	10.97	5119000	**69.0**	30	-	120	
45	Sc	1	175653	2.23	341400	**51.5**	30	-	120	
45	Sc	2	216115	1.18	273900	**78.9**	30	-	120	
74	Ge	1	150205	1.69	283600	**53.0**	30	-	120	
74	Ge	2	361146	0.74	422600	**85.5**	30	-	120	
74	Ge	3	1360483	12.25	1674000	**81.3**	30	-	120	
103	Rh	2	707518	1.61	814900	**86.8**	30	-	120	
103	Rh	3	1300234	12.92	1535000	**84.7**	30	-	120	
165	Ho	3	2848839	16.82	3236000	**88.0**	30	-	120	
175	Lu	3	3167322	15.73	3584000	**88.4**	30	-	120	
209	Bi	3	6833408	13.16	7619000	**89.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\142SMPL.D\142SMPL.D#
Date Acquired: May 28 2010 05:05 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-25-B Vial Number: 4201
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.006**	ug/l	0.06	28.9	450	6	P	
23	**Na**	2	**37.900**	ug/l	379.00	9.9	450000	45	P	
24	**Mg**	2	**602.700**	ug/l	6,027.00	0.7	450000	45	P	
27	**Al**	2	**33.800**	ug/l	338.00	10.8	450000	45	P	
31	**P**	2	**49.590**	ug/l	495.90	12.2	450000	45	P	
39	**K**	2	**233.100**	ug/l	2,331.00	2.6	450000	45	P	
44	**Ca**	2	**618.400**	ug/l	6,184.00	2.5	450000	45	P	
47	**Ti**	2	**0.794**	ug/l	7.94	22.6	4500	45	P	
51	**V**	2	**-0.129**	ug/l	-1.29	23.4	4500	45	P	
52	**Cr**	2	**1.521**	ug/l	15.21	11.2	4500	45	P	
54	**Fe**	2	**145.400**	ug/l	1,454.00	13.0	450000	74	P	
55	**Mn**	2	**14.300**	ug/l	143.00	2.1	15000	45	P	
59	**Co**	2	**0.859**	ug/l	8.59	5.1	4500	45	P	
60	**Ni**	2	**9.652**	ug/l	96.52	4.4	15000	45	P	
63	**Cu**	2	**0.414**	ug/l	4.14	22.7	15000	45	P	
66	**Zn**	2	**0.730**	ug/l	7.30	10.1	15000	45	P	
75	**As**	2	**-0.049**	ug/l	-0.49	14.9	4500	74	P	
78	**Se**	2	**-0.576**	ug/l	-5.76	27.1	4500	74	P	
88	**Sr**	3	**4.189**	ug/l	41.89	1.9	4500	74	P	
95	**Mo**	3	**0.057**	ug/l	0.57	26.9	4500	74	P	
107	**Ag**	3	**-0.001**	ug/l	-0.01	191.2	450	103	P	
111	**Cd**	3	**0.002**	ug/l	0.02	247.1	900	103	P	
118	**Sn**	3	**0.011**	ug/l	0.11	35.9	4500	103	P	
121	**Sb**	3	**0.017**	ug/l	0.17	9.1	4500	103	P	
135	**Ba**	3	**4.995**	ug/l	49.95	1.0	4500	103	P	
200	**Hg**	3	**40.310**	ug/l	403.10	3.3	45	209	P	
205	**Tl**	3	**0.182**	ug/l	1.82	3.2	4500	209	P	
208	**Pb**	3	**6.927**	ug/l	69.27	6.5	4500	209	P	
238	**U**	3	**0.003**	ug/l	0.03	50.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3875210	0.23	5119000	**75.7**	30	-	120	
45	Sc	1	178167	0.57	341400	**52.2**	30	-	120	
45	Sc	2	216335	1.64	273900	**79.0**	30	-	120	
74	Ge	1	153056	0.41	283600	**54.0**	30	-	120	
74	Ge	2	355049	0.49	422600	**84.0**	30	-	120	
74	Ge	3	1428831	0.68	1674000	**85.4**	30	-	120	
103	Rh	2	695164	1.48	814900	**85.3**	30	-	120	
103	Rh	3	1345769	1.46	1535000	**87.7**	30	-	120	
165	Ho	3	2926203	0.61	3236000	**90.4**	30	-	120	
175	Lu	3	3235414	0.39	3584000	**90.3**	30	-	120	
209	Bi	3	6997524	0.52	7619000	**91.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\143SMPL.D\143SMPL.D#
Date Acquired: May 28 2010 05:12 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-26-B Vial Number: 4202
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.007**	ug/l	0.07	8.0	450	6	P	
23	**Na**	2	**19.940**	ug/l	199.40	12.7	450000	45	P	
24	**Mg**	2	**362.400**	ug/l	3,624.00	5.0	450000	45	P	
27	**Al**	2	**124.800**	ug/l	1,248.00	8.9	450000	45	P	
31	**P**	2	**57.810**	ug/l	578.10	23.1	450000	45	P	
39	**K**	2	**351.500**	ug/l	3,515.00	4.0	450000	45	P	
44	**Ca**	2	**286.800**	ug/l	2,868.00	3.4	450000	45	P	
47	**Ti**	2	**3.916**	ug/l	39.16	9.8	4500	45	P	
51	**V**	2	**0.196**	ug/l	1.96	23.6	4500	45	P	
52	**Cr**	2	**1.049**	ug/l	10.49	14.7	4500	45	P	
54	**Fe**	2	**156.600**	ug/l	1,566.00	22.7	450000	74	P	
55	**Mn**	2	**68.970**	ug/l	689.70	1.8	15000	45	P	
59	**Co**	2	**0.634**	ug/l	6.34	3.7	4500	45	P	
60	**Ni**	2	**5.777**	ug/l	57.77	4.1	15000	45	P	
63	**Cu**	2	**4.460**	ug/l	44.60	2.7	15000	45	P	
66	**Zn**	2	**5.961**	ug/l	59.61	8.5	15000	45	P	
75	**As**	2	**0.058**	ug/l	0.58	34.1	4500	74	P	
78	**Se**	2	**-0.050**	ug/l	-0.50	1331.4	4500	74	P	
88	**Sr**	3	**2.408**	ug/l	24.08	0.9	4500	74	P	
95	**Mo**	3	**0.138**	ug/l	1.38	9.9	4500	74	P	
107	**Ag**	3	**-0.001**	ug/l	-0.01	90.7	450	103	P	
111	**Cd**	3	**0.009**	ug/l	0.09	40.3	900	103	P	
118	**Sn**	3	**0.003**	ug/l	0.03	102.3	4500	103	P	
121	**Sb**	3	**0.201**	ug/l	2.01	3.2	4500	103	P	
135	**Ba**	3	**26.170**	ug/l	261.70	1.2	4500	103	P	
200	**Hg**	3	**37.200**	ug/l	372.00	0.7	45	209	P	
205	**Tl**	3	**0.125**	ug/l	1.25	2.8	4500	209	P	
208	**Pb**	3	**2.569**	ug/l	25.69	2.9	4500	209	P	
238	**U**	3	**0.003**	ug/l	0.03	84.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3976026	0.41	5119000	**77.7**	30	-	120	
45	Sc	1	177321	1.54	341400	**51.9**	30	-	120	
45	Sc	2	219601	1.19	273900	**80.2**	30	-	120	
74	Ge	1	154339	0.30	283600	**54.4**	30	-	120	
74	Ge	2	361727	0.47	422600	**85.6**	30	-	120	
74	Ge	3	1435482	1.09	1674000	**85.8**	30	-	120	
103	Rh	2	702470	1.18	814900	**86.2**	30	-	120	
103	Rh	3	1339855	0.83	1535000	**87.3**	30	-	120	
165	Ho	3	2933177	1.12	3236000	**90.6**	30	-	120	
175	Lu	3	3256314	1.57	3584000	**90.9**	30	-	120	
209	Bi	3	7012506	0.61	7619000	**92.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\144SMPL.D\144SMPL.D#
Date Acquired: May 28 2010 05:19 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-27-B Vial Number: 4203
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.009**	ug/l	0.09	44.6	450	6	P	
23	**Na**	2	**40.380**	ug/l	403.80	58.5	450000	45	P	
24	**Mg**	2	**299.200**	ug/l	2,992.00	3.4	450000	45	P	
27	**Al**	2	**392.100**	ug/l	3,921.00	6.7	450000	45	P	
31	**P**	2	**2.976**	ug/l	29.76	164.2	450000	45	P	
39	**K**	2	**241.300**	ug/l	2,413.00	10.9	450000	45	P	
44	**Ca**	2	**113.400**	ug/l	1,134.00	8.6	450000	45	P	
47	**Ti**	2	**14.850**	ug/l	148.50	4.8	4500	45	P	
51	**V**	2	**0.821**	ug/l	8.21	19.4	4500	45	P	
52	**Cr**	2	**1.010**	ug/l	10.10	5.2	4500	45	P	
54	**Fe**	2	**352.300**	ug/l	3,523.00	7.3	450000	74	P	
55	**Mn**	2	**20.930**	ug/l	209.30	3.6	15000	45	P	
59	**Co**	2	**0.564**	ug/l	5.64	4.9	4500	45	P	
60	**Ni**	2	**4.299**	ug/l	42.99	16.2	15000	45	P	
63	**Cu**	2	**2.684**	ug/l	26.84	3.8	15000	45	P	
66	**Zn**	2	**3.765**	ug/l	37.65	10.1	15000	45	P	
75	**As**	2	**0.008**	ug/l	0.08	464.1	4500	74	P	
78	**Se**	2	**-0.491**	ug/l	-4.91	54.2	4500	74	P	
88	**Sr**	3	**0.927**	ug/l	9.27	2.2	4500	74	P	
95	**Mo**	3	**0.053**	ug/l	0.53	38.8	4500	74	P	
107	**Ag**	3	**0.000**	ug/l	0.00	1214.5	450	103	P	
111	**Cd**	3	**-0.008**	ug/l	-0.08	79.7	900	103	P	
118	**Sn**	3	**0.004**	ug/l	0.04	46.8	4500	103	P	
121	**Sb**	3	**0.162**	ug/l	1.62	5.9	4500	103	P	
135	**Ba**	3	**13.450**	ug/l	134.50	0.5	4500	103	P	
200	**Hg**	3	**33.210**	ug/l	332.10	1.7	45	209	P	
205	**Tl**	3	**0.085**	ug/l	0.85	6.0	4500	209	P	
208	**Pb**	3	**1.695**	ug/l	16.95	1.5	4500	209	P	
238	**U**	3	**0.010**	ug/l	0.10	43.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4045132	1.60	5119000	**79.0**	30	-	120	
45	Sc	1	175726	0.62	341400	**51.5**	30	-	120	
45	Sc	2	217755	0.43	273900	**79.5**	30	-	120	
74	Ge	1	150753	1.60	283600	**53.2**	30	-	120	
74	Ge	2	360950	1.04	422600	**85.4**	30	-	120	
74	Ge	3	1428943	1.34	1674000	**85.4**	30	-	120	
103	Rh	2	701368	0.65	814900	**86.1**	30	-	120	
103	Rh	3	1344103	0.51	1535000	**87.6**	30	-	120	
165	Ho	3	2901961	0.43	3236000	**89.7**	30	-	120	
175	Lu	3	3252601	1.69	3584000	**90.8**	30	-	120	
209	Bi	3	6905220	0.97	7619000	**90.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\145SMPL.D\145SMPL.D#
Date Acquired: May 28 2010 05:26 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-28-B Vial Number: 4204
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.091**	ug/l	10.91	1.6	450	6	P	
23	**Na**	2	**52.770**	ug/l	527.70	5.9	450000	45	P	
24	**Mg**	2	**37010.000**	ug/l	370,100.00	1.3	450000	45	A	
27	**Al**	2	**22420.000**	ug/l	224,200.00	0.6	450000	45	A	
31	**P**	2	**478.600**	ug/l	4,786.00	1.5	450000	45	P	
39	**K**	2	**2478.000**	ug/l	24,780.00	0.9	450000	45	P	
44	**Ca**	2	**2287.000**	ug/l	22,870.00	1.3	450000	45	P	
47	**Ti**	2	**96.820**	ug/l	968.20	6.2	4500	45	P	
51	**V**	2	**93.490**	ug/l	934.90	1.1	4500	45	P	
52	**Cr**	2	**654.900**	ug/l	6,549.00	0.2	4500	45	A	
54	**Fe**	2	**100000.000**	ug/l	1,000,000.00	1.4	450000	74	A	
55	**Mn**	2	**1982.000**	ug/l	19,820.00	0.2	15000	45	A	
59	**Co**	2	**166.300**	ug/l	1,663.00	0.8	4500	45	P	
60	**Ni**	2	**2255.000**	ug/l	22,550.00	1.2	15000	45	A	
63	**Cu**	2	**60.570**	ug/l	605.70	1.3	15000	45	P	
66	**Zn**	2	**118.800**	ug/l	1,188.00	2.0	15000	45	P	
75	**As**	2	**17.740**	ug/l	177.40	2.3	4500	74	P	
78	**Se**	2	**1.283**	ug/l	12.83	99.7	4500	74	P	
88	**Sr**	3	**27.230**	ug/l	272.30	0.5	4500	74	P	
95	**Mo**	3	**1.052**	ug/l	10.52	1.9	4500	74	P	
107	**Ag**	3	**0.123**	ug/l	1.23	3.5	450	103	P	
111	**Cd**	3	**0.309**	ug/l	3.09	15.4	900	103	P	
118	**Sn**	3	**0.989**	ug/l	9.89	5.6	4500	103	P	
121	**Sb**	3	**0.693**	ug/l	6.93	2.6	4500	103	P	
135	**Ba**	3	**432.100**	ug/l	4,321.00	1.3	4500	103	P	
200	**Hg**	3	**740.300**	ug/l	7,403.00	1.9	45	209	A	Fail
205	**Tl**	3	**0.221**	ug/l	2.21	5.7	4500	209	P	
208	**Pb**	3	**59.000**	ug/l	590.00	1.1	4500	209	P	
238	**U**	3	**0.412**	ug/l	4.12	2.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3359509	0.93	5119000	**65.6**	30	-	120	
45	Sc	1	175768	1.14	341400	**51.5**	30	-	120	
45	Sc	2	233193	0.42	273900	**85.1**	30	-	120	
74	Ge	1	133144	0.99	283600	**46.9**	30	-	120	
74	Ge	2	345791	1.39	422600	**81.8**	30	-	120	
74	Ge	3	1420507	0.64	1674000	**84.9**	30	-	120	
103	Rh	2	658467	0.94	814900	**80.8**	30	-	120	
103	Rh	3	1285861	1.32	1535000	**83.8**	30	-	120	
165	Ho	3	2956923	1.18	3236000	**91.4**	30	-	120	
175	Lu	3	3316005	1.87	3584000	**92.5**	30	-	120	
209	Bi	3	6648849	0.63	7619000	**87.3**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\146SMPL.D\146SMPL.D#
Date Acquired: May 28 2010 05:33 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-29-B Vial Number: 4205
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.684**	ug/l	6.84	5.5	450	6	P	
23	**Na**	2	**173.400**	ug/l	1,734.00	1.6	450000	45	P	
24	**Mg**	2	**29170.000**	ug/l	291,700.00	2.3	450000	45	A	
27	**Al**	2	**20940.000**	ug/l	209,400.00	1.4	450000	45	A	
31	**P**	2	**420.100**	ug/l	4,201.00	5.6	450000	45	P	
39	**K**	2	**1982.000**	ug/l	19,820.00	1.3	450000	45	P	
44	**Ca**	2	**1415.000**	ug/l	14,150.00	1.1	450000	45	P	
47	**Ti**	2	**163.900**	ug/l	1,639.00	0.9	4500	45	P	
51	**V**	2	**75.510**	ug/l	755.10	0.9	4500	45	P	
52	**Cr**	2	**829.300**	ug/l	8,293.00	0.9	4500	45	A	
54	**Fe**	2	**114900.000**	ug/l	1,149,000.00	1.7	450000	74	A	
55	**Mn**	2	**1801.000**	ug/l	18,010.00	1.5	15000	45	A	
59	**Co**	2	**227.300**	ug/l	2,273.00	1.2	4500	45	P	
60	**Ni**	2	**3506.000**	ug/l	35,060.00	1.7	15000	45	A	
63	**Cu**	2	**28.410**	ug/l	284.10	2.0	15000	45	P	
66	**Zn**	2	**82.400**	ug/l	824.00	1.1	15000	45	P	
75	**As**	2	**9.582**	ug/l	95.82	2.5	4500	74	P	
78	**Se**	2	**1.038**	ug/l	10.38	109.4	4500	74	P	
88	**Sr**	3	**25.310**	ug/l	253.10	2.2	4500	74	P	
95	**Mo**	3	**0.393**	ug/l	3.93	4.9	4500	74	P	
107	**Ag**	3	**0.063**	ug/l	0.63	5.1	450	103	P	
111	**Cd**	3	**0.172**	ug/l	1.72	15.5	900	103	P	
118	**Sn**	3	**0.725**	ug/l	7.25	6.3	4500	103	P	
121	**Sb**	3	**0.462**	ug/l	4.62	6.9	4500	103	P	
135	**Ba**	3	**218.800**	ug/l	2,188.00	1.3	4500	103	P	
200	**Hg**	3	**331.200**	ug/l	3,312.00	1.7	45	209	P	Fail
205	**Tl**	3	**0.366**	ug/l	3.66	2.3	4500	209	P	
208	**Pb**	3	**8.830**	ug/l	88.30	1.4	4500	209	P	
238	**U**	3	**0.316**	ug/l	3.16	3.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3311150	2.13	5119000	**64.7**	30	-	120	
45	Sc	1	161409	1.07	341400	**47.3**	30	-	120	
45	Sc	2	226961	1.31	273900	**82.9**	30	-	120	
74	Ge	1	123144	0.33	283600	**43.4**	30	-	120	
74	Ge	2	336605	0.78	422600	**79.7**	30	-	120	
74	Ge	3	1374625	1.45	1674000	**82.1**	30	-	120	
103	Rh	2	642330	1.82	814900	**78.8**	30	-	120	
103	Rh	3	1258387	1.71	1535000	**82.0**	30	-	120	
165	Ho	3	2881165	1.32	3236000	**89.0**	30	-	120	
175	Lu	3	3224721	0.76	3584000	**90.0**	30	-	120	
209	Bi	3	6563939	0.88	7619000	**86.2**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\147SMPL.D\147SMPL.D#
Date Acquired: May 28 2010 05:41 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-30-B Vial Number: 4206
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.248**	ug/l	12.48	3.9	450	6	P	
23	**Na**	2	**106.600**	ug/l	1,066.00	3.1	450000	45	P	
24	**Mg**	2	**25090.000**	ug/l	250,900.00	1.6	450000	45	A	
27	**Al**	2	**31840.000**	ug/l	318,400.00	0.8	450000	45	A	
31	**P**	2	**912.600**	ug/l	9,126.00	2.0	450000	45	P	
39	**K**	2	**3435.000**	ug/l	34,350.00	1.5	450000	45	A	
44	**Ca**	2	**4413.000**	ug/l	44,130.00	1.5	450000	45	P	
47	**Ti**	2	**101.500**	ug/l	1,015.00	6.7	4500	45	P	
51	**V**	2	**105.900**	ug/l	1,059.00	1.4	4500	45	P	
52	**Cr**	2	**236.000**	ug/l	2,360.00	0.6	4500	45	P	
54	**Fe**	2	**81200.000**	ug/l	812,000.00	0.8	450000	74	A	
55	**Mn**	2	**1202.000**	ug/l	12,020.00	0.7	15000	45	A	
59	**Co**	2	**53.920**	ug/l	539.20	0.5	4500	45	P	
60	**Ni**	2	**602.800**	ug/l	6,028.00	1.5	15000	45	P	
63	**Cu**	2	**83.950**	ug/l	839.50	0.4	15000	45	P	
66	**Zn**	2	**197.700**	ug/l	1,977.00	1.0	15000	45	P	
75	**As**	2	**26.560**	ug/l	265.60	0.8	4500	74	P	
78	**Se**	2	**1.115**	ug/l	11.15	104.7	4500	74	P	
88	**Sr**	3	**43.650**	ug/l	436.50	0.8	4500	74	P	
95	**Mo**	3	**1.497**	ug/l	14.97	7.4	4500	74	P	
107	**Ag**	3	**0.169**	ug/l	1.69	6.5	450	103	P	
111	**Cd**	3	**0.402**	ug/l	4.02	4.0	900	103	P	
118	**Sn**	3	**1.417**	ug/l	14.17	5.0	4500	103	P	
121	**Sb**	3	**0.835**	ug/l	8.35	1.8	4500	103	P	
135	**Ba**	3	**368.100**	ug/l	3,681.00	2.1	4500	103	P	
200	**Hg**	3	**26.520**	ug/l	265.20	2.0	45	209	P	
205	**Tl**	3	**0.242**	ug/l	2.42	4.4	4500	209	P	
208	**Pb**	3	**38.590**	ug/l	385.90	1.4	4500	209	P	
238	**U**	3	**0.345**	ug/l	3.45	4.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3443393	0.93	5119000	**67.3**	30	-	120	
45	Sc	1	159465	0.63	341400	**46.7**	30	-	120	
45	Sc	2	229363	0.47	273900	**83.7**	30	-	120	
74	Ge	1	123675	1.29	283600	**43.6**	30	-	120	
74	Ge	2	340474	0.17	422600	**80.6**	30	-	120	
74	Ge	3	1447647	1.33	1674000	**86.5**	30	-	120	
103	Rh	2	654948	0.36	814900	**80.4**	30	-	120	
103	Rh	3	1319994	2.48	1535000	**86.0**	30	-	120	
165	Ho	3	2992013	0.70	3236000	**92.5**	30	-	120	
175	Lu	3	3315686	0.29	3584000	**92.5**	30	-	120	
209	Bi	3	6707693	1.46	7619000	**88.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\148SMPL.D\148SMPL.D#
Date Acquired: May 28 2010 05:48 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**51.600**	ug/l	51.60	0.5	450	6	P	
23	**Na**	2	**5077.000**	ug/l	5,077.00	0.7	450000	45	A	
24	**Mg**	2	**5121.000**	ug/l	5,121.00	1.7	450000	45	A	
27	**Al**	2	**505.200**	ug/l	505.20	1.5	450000	45	P	
31	**P**	2	**4848.000**	ug/l	4,848.00	0.8	450000	45	P	
39	**K**	2	**5199.000**	ug/l	5,199.00	1.6	450000	45	A	
44	**Ca**	2	**5154.000**	ug/l	5,154.00	2.4	450000	45	P	
47	**Ti**	2	**52.250**	ug/l	52.25	1.5	4500	45	P	
51	**V**	2	**53.050**	ug/l	53.05	1.9	4500	45	P	
52	**Cr**	2	**53.440**	ug/l	53.44	2.4	4500	45	P	
54	**Fe**	2	**5156.000**	ug/l	5,156.00	0.9	450000	74	P	
55	**Mn**	2	**54.350**	ug/l	54.35	1.5	15000	45	P	
59	**Co**	2	**53.990**	ug/l	53.99	1.1	4500	45	P	
60	**Ni**	2	**54.160**	ug/l	54.16	1.0	15000	45	P	
63	**Cu**	2	**54.140**	ug/l	54.14	1.1	15000	45	P	
66	**Zn**	2	**54.620**	ug/l	54.62	2.5	15000	45	P	
75	**As**	2	**51.290**	ug/l	51.29	1.1	4500	74	P	
78	**Se**	2	**57.380**	ug/l	57.38	3.3	4500	74	P	
88	**Sr**	3	**53.940**	ug/l	53.94	0.7	4500	74	P	
95	**Mo**	3	**53.410**	ug/l	53.41	1.9	4500	74	P	
107	**Ag**	3	**52.390**	ug/l	52.39	1.2	450	103	P	
111	**Cd**	3	**52.020**	ug/l	52.02	0.9	900	103	P	
118	**Sn**	3	**52.630**	ug/l	52.63	0.8	4500	103	P	
121	**Sb**	3	**52.930**	ug/l	52.93	1.7	4500	103	P	
135	**Ba**	3	**54.140**	ug/l	54.14	2.2	4500	103	P	
200	**Hg**	3	**16.850**	ug/l	16.85	3.1	45	209	P	
205	**Tl**	3	**51.610**	ug/l	51.61	1.3	4500	209	P	
208	**Pb**	3	**52.820**	ug/l	52.82	0.5	4500	209	P	
238	**U**	3	**52.270**	ug/l	52.27	0.4	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3719096	0.87	5119000	**72.7**	30	-	120	
45	Sc	1	160483	2.50	341400	**47.0**	30	-	120	
45	Sc	2	210976	1.57	273900	**77.0**	30	-	120	
74	Ge	1	136692	1.49	283600	**48.2**	30	-	120	
74	Ge	2	346554	1.09	422600	**82.0**	30	-	120	
74	Ge	3	1412082	0.38	1674000	**84.4**	30	-	120	
103	Rh	2	668951	1.20	814900	**82.1**	30	-	120	
103	Rh	3	1306337	1.06	1535000	**85.1**	30	-	120	
165	Ho	3	2903618	0.64	3236000	**89.7**	30	-	120	
175	Lu	3	3238059	0.55	3584000	**90.3**	30	-	120	
209	Bi	3	6810454	0.59	7619000	**89.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\149SMPL.D\149SMPL.D#
Date Acquired: May 28 2010 05:55 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.020**	ug/l	0.02	33.8	450	6	P	
23	**Na**	2	**3.691**	ug/l	3.69	37.1	450000	45	P	
24	**Mg**	2	**4.288**	ug/l	4.29	3.8	450000	45	P	
27	**Al**	2	**2.019**	ug/l	2.02	8.1	450000	45	P	
31	**P**	2	**-5.146**	ug/l	-5.15	54.5	450000	45	P	
39	**K**	2	**1.772**	ug/l	1.77	267.9	450000	45	P	
44	**Ca**	2	**2.875**	ug/l	2.88	22.6	450000	45	P	
47	**Ti**	2	**0.051**	ug/l	0.05	41.1	4500	45	P	
51	**V**	2	**-0.109**	ug/l	-0.11	33.6	4500	45	P	
52	**Cr**	2	**0.032**	ug/l	0.03	47.0	4500	45	P	
54	**Fe**	2	**5.127**	ug/l	5.13	24.9	450000	74	P	
55	**Mn**	2	**0.212**	ug/l	0.21	8.3	15000	45	P	
59	**Co**	2	**0.026**	ug/l	0.03	28.3	4500	45	P	
60	**Ni**	2	**0.108**	ug/l	0.11	11.5	15000	45	P	
63	**Cu**	2	**0.016**	ug/l	0.02	83.2	15000	45	P	
66	**Zn**	2	**0.119**	ug/l	0.12	81.3	15000	45	P	
75	**As**	2	**-0.036**	ug/l	-0.04	64.6	4500	74	P	
78	**Se**	2	**-0.219**	ug/l	-0.22	123.1	4500	74	P	
88	**Sr**	3	**0.015**	ug/l	0.02	2.7	4500	74	P	
95	**Mo**	3	**0.003**	ug/l	0.00	551.1	4500	74	P	
107	**Ag**	3	**0.013**	ug/l	0.01	37.9	450	103	P	
111	**Cd**	3	**0.017**	ug/l	0.02	102.5	900	103	P	
118	**Sn**	3	**0.043**	ug/l	0.04	42.6	4500	103	P	
121	**Sb**	3	**0.032**	ug/l	0.03	20.2	4500	103	P	
135	**Ba**	3	**0.043**	ug/l	0.04	59.6	4500	103	P	
200	**Hg**	3	**13.700**	ug/l	13.70	0.9	45	209	P	
205	**Tl**	3	**0.396**	ug/l	0.40	10.1	4500	209	P	
208	**Pb**	3	**0.020**	ug/l	0.02	6.7	4500	209	P	
238	**U**	3	**0.012**	ug/l	0.01	23.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3572141	0.95	5119000	**69.8**	30	-	120	
45	Sc	1	157006	2.50	341400	**46.0**	30	-	120	
45	Sc	2	214638	0.66	273900	**78.4**	30	-	120	
74	Ge	1	136408	1.71	283600	**48.1**	30	-	120	
74	Ge	2	356956	0.76	422600	**84.5**	30	-	120	
74	Ge	3	1401227	1.64	1674000	**83.7**	30	-	120	
103	Rh	2	708473	1.00	814900	**86.9**	30	-	120	
103	Rh	3	1332196	1.86	1535000	**86.8**	30	-	120	
165	Ho	3	2925891	0.98	3236000	**90.4**	30	-	120	
175	Lu	3	3272953	1.14	3584000	**91.3**	30	-	120	
209	Bi	3	7052375	0.57	7619000	**92.6**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\150SMPL.D\150SMPL.D#
Date Acquired: May 28 2010 06:02 am Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64541/21-A Vial Number: 4301
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.004**	ug/l	0.04	40.8	450	6	P	
23	**Na**	2	**4.130**	ug/l	41.30	28.3	450000	45	P	
24	**Mg**	2	**1.443**	ug/l	14.43	7.4	450000	45	P	
27	**Al**	2	**0.690**	ug/l	6.90	30.7	450000	45	P	
31	**P**	2	**-8.309**	ug/l	-83.09	11.7	450000	45	P	
39	**K**	2	**0.623**	ug/l	6.23	790.0	450000	45	P	
44	**Ca**	2	**2.009**	ug/l	20.09	77.3	450000	45	P	
47	**Ti**	2	**0.024**	ug/l	0.24	100.8	4500	45	P	
51	**V**	2	**-0.101**	ug/l	-1.01	61.2	4500	45	P	
52	**Cr**	2	**0.010**	ug/l	0.10	424.2	4500	45	P	
54	**Fe**	2	**1.235**	ug/l	12.35	13.0	450000	74	P	
55	**Mn**	2	**0.128**	ug/l	1.28	8.8	15000	45	P	
59	**Co**	2	**0.012**	ug/l	0.12	19.0	4500	45	P	
60	**Ni**	2	**0.095**	ug/l	0.95	25.1	15000	45	P	
63	**Cu**	2	**0.017**	ug/l	0.17	65.3	15000	45	P	
66	**Zn**	2	**0.109**	ug/l	1.09	10.2	15000	45	P	
75	**As**	2	**-0.080**	ug/l	-0.80	16.0	4500	74	P	
78	**Se**	2	**-0.129**	ug/l	-1.29	240.2	4500	74	P	
88	**Sr**	3	**0.004**	ug/l	0.04	74.2	4500	74	P	
95	**Mo**	3	**-0.004**	ug/l	-0.04	148.3	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.03	186.6	450	103	P	
111	**Cd**	3	**0.001**	ug/l	0.01	1989.4	900	103	P	
118	**Sn**	3	**0.008**	ug/l	0.08	91.1	4500	103	P	
121	**Sb**	3	**0.005**	ug/l	0.05	49.5	4500	103	P	
135	**Ba**	3	**0.019**	ug/l	0.19	128.7	4500	103	P	
200	**Hg**	3	**12.750**	ug/l	127.50	0.8	45	209	P	
205	**Tl**	3	**0.158**	ug/l	1.58	3.3	4500	209	P	
208	**Pb**	3	**0.007**	ug/l	0.07	42.3	4500	209	P	
238	**U**	3	**0.000**	ug/l	0.00	210.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3579220	1.07	5119000	**69.9**	30	-	120	
45	Sc	1	156519	1.06	341400	**45.8**	30	-	120	
45	Sc	2	212917	0.47	273900	**77.7**	30	-	120	
74	Ge	1	133590	1.28	283600	**47.1**	30	-	120	
74	Ge	2	356321	0.61	422600	**84.3**	30	-	120	
74	Ge	3	1426168	0.30	1674000	**85.2**	30	-	120	
103	Rh	2	703414	1.47	814900	**86.3**	30	-	120	
103	Rh	3	1336107	0.41	1535000	**87.0**	30	-	120	
165	Ho	3	2933479	0.49	3236000	**90.7**	30	-	120	
175	Lu	3	3267878	1.37	3584000	**91.2**	30	-	120	
209	Bi	3	7070035	0.72	7619000	**92.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\151SMPL.D\151SMPL.D#
Date Acquired: May 28 2010 06:09 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-B SD Vial Number: 4302
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.139**	ug/l	6.97	1.8	450	6	P	
23	**Na**	2	**34.440**	ug/l	1,722.00	9.7	450000	45	P	
24	**Mg**	2	**8171.000**	ug/l	408,550.00	1.1	450000	45	A	
27	**Al**	2	**4949.000**	ug/l	247,450.00	1.2	450000	45	A	
31	**P**	2	**101.300**	ug/l	5,065.00	11.9	450000	45	P	
39	**K**	2	**381.800**	ug/l	19,090.00	2.1	450000	45	P	
44	**Ca**	2	**245.900**	ug/l	12,295.00	1.6	450000	45	P	
47	**Ti**	2	**37.330**	ug/l	1,866.50	8.3	4500	45	P	
51	**V**	2	**15.610**	ug/l	780.50	2.3	4500	45	P	
52	**Cr**	2	**194.600**	ug/l	9,730.00	1.2	4500	45	P	
54	**Fe**	2	**29660.000**	ug/l	1,483,000.00	1.0	450000	74	A	
55	**Mn**	2	**434.500**	ug/l	21,725.00	0.6	15000	45	P	
59	**Co**	2	**56.670**	ug/l	2,833.50	0.8	4500	45	P	
60	**Ni**	2	**1017.000**	ug/l	50,850.00	0.8	15000	45	P	
63	**Cu**	2	**5.726**	ug/l	286.30	4.0	15000	45	P	
66	**Zn**	2	**20.520**	ug/l	1,026.00	1.8	15000	45	P	
75	**As**	2	**2.273**	ug/l	113.65	4.0	4500	74	P	
78	**Se**	2	**-0.315**	ug/l	-15.73	47.6	4500	74	P	
88	**Sr**	3	**5.532**	ug/l	276.60	1.0	4500	74	P	
95	**Mo**	3	**0.122**	ug/l	6.09	29.5	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.38	16.6	450	103	P	
111	**Cd**	3	**0.046**	ug/l	2.29	27.2	900	103	P	
118	**Sn**	3	**0.155**	ug/l	7.73	8.4	4500	103	P	
121	**Sb**	3	**0.297**	ug/l	14.85	2.9	4500	103	P	
135	**Ba**	3	**47.370**	ug/l	2,368.50	2.0	4500	103	P	
200	**Hg**	3	**221.100**	ug/l	11,055.00	0.4	45	209	P	Fail
205	**Tl**	3	**0.196**	ug/l	9.82	3.0	4500	209	P	
208	**Pb**	3	**1.926**	ug/l	96.30	1.2	4500	209	P	
238	**U**	3	**0.073**	ug/l	3.63	5.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3799616	0.73	5119000	**74.2**	30	-	120	
45	Sc	1	165698	0.52	341400	**48.5**	30	-	120	
45	Sc	2	227463	0.24	273900	**83.0**	30	-	120	
74	Ge	1	138763	0.53	283600	**48.9**	30	-	120	
74	Ge	2	360197	1.07	422600	**85.2**	30	-	120	
74	Ge	3	1451368	1.20	1674000	**86.7**	30	-	120	
103	Rh	2	690303	1.36	814900	**84.7**	30	-	120	
103	Rh	3	1341058	0.23	1535000	**87.4**	30	-	120	
165	Ho	3	2968616	0.78	3236000	**91.7**	30	-	120	
175	Lu	3	3311244	1.49	3584000	**92.4**	30	-	120	
209	Bi	3	6887601	0.38	7619000	**90.4**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\152SMPL.D\152SMPL.D#
Date Acquired: May 28 2010 06:17 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-B Vial Number: 4303
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.697**	ug/l	6.97	1.6	450	6	P	
23	**Na**	2	**171.100**	ug/l	1,711.00	3.0	450000	45	P	
24	**Mg**	2	**35180.000**	ug/l	351,800.00	0.6	450000	45	A	
27	**Al**	2	**21040.000**	ug/l	210,400.00	0.7	450000	45	A	
31	**P**	2	**453.100**	ug/l	4,531.00	3.0	450000	45	P	
39	**K**	2	**1740.000**	ug/l	17,400.00	0.9	450000	45	P	
44	**Ca**	2	**1128.000**	ug/l	11,280.00	2.7	450000	45	P	
47	**Ti**	2	**162.700**	ug/l	1,627.00	3.5	4500	45	P	
51	**V**	2	**70.800**	ug/l	708.00	1.8	4500	45	P	
52	**Cr**	2	**832.100**	ug/l	8,321.00	1.8	4500	45	A	
54	**Fe**	2	**137500.000**	ug/l	1,375,000.00	1.3	450000	74	A	
55	**Mn**	2	**1818.000**	ug/l	18,180.00	1.1	15000	45	A	
59	**Co**	2	**246.500**	ug/l	2,465.00	1.7	4500	45	P	
60	**Ni**	2	**4228.000**	ug/l	42,280.00	1.2	15000	45	A	
63	**Cu**	2	**24.950**	ug/l	249.50	2.6	15000	45	P	
66	**Zn**	2	**88.750**	ug/l	887.50	2.4	15000	45	P	
75	**As**	2	**11.150**	ug/l	111.50	3.8	4500	74	P	
78	**Se**	2	**0.871**	ug/l	8.71	82.5	4500	74	P	
88	**Sr**	3	**26.940**	ug/l	269.40	1.4	4500	74	P	
95	**Mo**	3	**0.576**	ug/l	5.76	16.9	4500	74	P	
107	**Ag**	3	**0.061**	ug/l	0.61	5.4	450	103	P	
111	**Cd**	3	**0.202**	ug/l	2.02	10.3	900	103	P	
118	**Sn**	3	**0.739**	ug/l	7.39	4.5	4500	103	P	
121	**Sb**	3	**1.460**	ug/l	14.60	3.9	4500	103	P	
135	**Ba**	3	**233.700**	ug/l	2,337.00	3.5	4500	103	P	
200	**Hg**	3	**980.100**	ug/l	9,801.00	1.2	45	209	A	Fail
205	**Tl**	3	**0.520**	ug/l	5.20	0.8	4500	209	P	
208	**Pb**	3	**9.360**	ug/l	93.60	0.9	4500	209	P	
238	**U**	3	**0.381**	ug/l	3.81	2.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3347855	2.14	5119000	**65.4**	30	-	120	
45	Sc	1	179366	0.78	341400	**52.5**	30	-	120	
45	Sc	2	227519	0.39	273900	**83.1**	30	-	120	
74	Ge	1	135578	0.40	283600	**47.8**	30	-	120	
74	Ge	2	332695	0.76	422600	**78.7**	30	-	120	
74	Ge	3	1338524	1.76	1674000	**80.0**	30	-	120	
103	Rh	2	636319	1.46	814900	**78.1**	30	-	120	
103	Rh	3	1228390	2.97	1535000	**80.0**	30	-	120	
165	Ho	3	2837231	0.13	3236000	**87.7**	30	-	120	
175	Lu	3	3154227	0.51	3584000	**88.0**	30	-	120	
209	Bi	3	6397393	1.13	7619000	**84.0**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\153SMPL.D\153SMPL.D#
Date Acquired: May 28 2010 06:24 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-C DU Vial Number: 4304
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.691**	ug/l	6.91	1.5	450	6	P	
23	**Na**	2	**173.300**	ug/l	1,733.00	2.9	450000	45	P	
24	**Mg**	2	**35410.000**	ug/l	354,100.00	0.4	450000	45	A	
27	**Al**	2	**20920.000**	ug/l	209,200.00	0.7	450000	45	A	
31	**P**	2	**461.100**	ug/l	4,611.00	5.0	450000	45	P	
39	**K**	2	**1731.000**	ug/l	17,310.00	0.6	450000	45	P	
44	**Ca**	2	**1134.000**	ug/l	11,340.00	2.3	450000	45	P	
47	**Ti**	2	**161.900**	ug/l	1,619.00	1.3	4500	45	P	
51	**V**	2	**70.310**	ug/l	703.10	1.1	4500	45	P	
52	**Cr**	2	**831.800**	ug/l	8,318.00	1.6	4500	45	A	
54	**Fe**	2	**137700.000**	ug/l	1,377,000.00	2.2	450000	74	A	
55	**Mn**	2	**1808.000**	ug/l	18,080.00	0.8	15000	45	A	
59	**Co**	2	**243.400**	ug/l	2,434.00	1.2	4500	45	P	
60	**Ni**	2	**4162.000**	ug/l	41,620.00	0.1	15000	45	A	
63	**Cu**	2	**24.540**	ug/l	245.40	1.3	15000	45	P	
66	**Zn**	2	**88.950**	ug/l	889.50	2.5	15000	45	P	
75	**As**	2	**11.050**	ug/l	110.50	2.1	4500	74	P	
78	**Se**	2	**1.945**	ug/l	19.45	16.8	4500	74	P	
88	**Sr**	3	**27.030**	ug/l	270.30	0.5	4500	74	P	
95	**Mo**	3	**0.590**	ug/l	5.90	3.5	4500	74	P	
107	**Ag**	3	**0.065**	ug/l	0.65	9.2	450	103	P	
111	**Cd**	3	**0.177**	ug/l	1.77	5.0	900	103	P	
118	**Sn**	3	**0.716**	ug/l	7.16	8.0	4500	103	P	
121	**Sb**	3	**1.473**	ug/l	14.73	1.4	4500	103	P	
135	**Ba**	3	**231.700**	ug/l	2,317.00	1.0	4500	103	P	
200	**Hg**	3	**975.700**	ug/l	9,757.00	1.5	45	209	A	Fail
205	**Tl**	3	**0.525**	ug/l	5.25	3.4	4500	209	P	
208	**Pb**	3	**9.327**	ug/l	93.27	0.8	4500	209	P	
238	**U**	3	**0.362**	ug/l	3.62	2.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3343655	0.49	5119000	**65.3**	30	-	120	
45	Sc	1	174355	2.70	341400	**51.1**	30	-	120	
45	Sc	2	218934	0.28	273900	**79.9**	30	-	120	
74	Ge	1	130422	1.81	283600	**46.0**	30	-	120	
74	Ge	2	318952	1.91	422600	**75.5**	30	-	120	
74	Ge	3	1295007	0.56	1674000	**77.4**	30	-	120	
103	Rh	2	606982	1.41	814900	**74.5**	30	-	120	
103	Rh	3	1190878	0.86	1535000	**77.6**	30	-	120	
165	Ho	3	2774275	0.82	3236000	**85.7**	30	-	120	
175	Lu	3	3082608	0.33	3584000	**86.0**	30	-	120	
209	Bi	3	6268583	0.87	7619000	**82.3**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\154SMPL.D\154SMPL.D#
Date Acquired: May 28 2010 06:31 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-D MS Vial Number: 4305
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.997**	ug/l	99.85	2.9	450	6	P	
23	**Na**	2	**438.500**	ug/l	21,925.00	1.2	450000	45	P	
24	**Mg**	2	**7457.000**	ug/l	372,850.00	1.4	450000	45	A	
27	**Al**	2	**4418.000**	ug/l	220,900.00	0.9	450000	45	P	
31	**P**	2	**457.200**	ug/l	22,860.00	1.5	450000	45	P	
39	**K**	2	**732.900**	ug/l	36,645.00	0.7	450000	45	P	
44	**Ca**	2	**601.800**	ug/l	30,090.00	3.8	450000	45	P	
47	**Ti**	2	**124.200**	ug/l	6,210.00	1.7	4500	45	P	
51	**V**	2	**32.190**	ug/l	1,609.50	3.5	4500	45	P	
52	**Cr**	2	**171.100**	ug/l	8,555.00	0.6	4500	45	P	
54	**Fe**	2	**25650.000**	ug/l	1,282,500.00	1.8	450000	74	A	
55	**Mn**	2	**385.700**	ug/l	19,285.00	0.6	15000	45	P	
59	**Co**	2	**67.370**	ug/l	3,368.50	0.5	4500	45	P	
60	**Ni**	2	**875.800**	ug/l	43,790.00	0.8	15000	45	P	
63	**Cu**	2	**15.020**	ug/l	751.00	2.8	15000	45	P	
66	**Zn**	2	**37.850**	ug/l	1,892.50	2.7	15000	45	P	
75	**As**	2	**76.620**	ug/l	3,831.00	1.8	4500	74	P	
78	**Se**	2	**79.110**	ug/l	3,955.50	2.9	4500	74	P	
88	**Sr**	3	**4.635**	ug/l	231.75	0.9	4500	74	P	
95	**Mo**	3	**99.320**	ug/l	4,966.00	0.3	4500	74	P	
107	**Ag**	3	**11.870**	ug/l	593.50	2.5	450	103	P	
111	**Cd**	3	**1.998**	ug/l	99.90	10.7	900	103	P	
118	**Sn**	3	**100.800**	ug/l	5,040.00	2.2	4500	103	P	
121	**Sb**	3	**52.250**	ug/l	2,612.50	3.1	4500	103	P	
135	**Ba**	3	**120.500**	ug/l	6,025.00	3.1	4500	103	P	
200	**Hg**	3	**189.900**	ug/l	9,495.00	0.6	45	209	P	Fail
205	**Tl**	3	**78.470**	ug/l	3,923.50	1.0	4500	209	A	
208	**Pb**	3	**21.580**	ug/l	1,079.00	0.4	4500	209	P	
238	**U**	3	**0.061**	ug/l	3.06	8.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3824031	0.66	5119000	**74.7**	30	-	120	
45	Sc	1	165166	1.54	341400	**48.4**	30	-	120	
45	Sc	2	205344	1.01	273900	**75.0**	30	-	120	
74	Ge	1	137148	2.47	283600	**48.4**	30	-	120	
74	Ge	2	326645	1.42	422600	**77.3**	30	-	120	
74	Ge	3	1341954	0.25	1674000	**80.2**	30	-	120	
103	Rh	2	630328	1.23	814900	**77.4**	30	-	120	
103	Rh	3	1237350	2.54	1535000	**80.6**	30	-	120	
165	Ho	3	2786016	0.49	3236000	**86.1**	30	-	120	
175	Lu	3	3109811	0.50	3584000	**86.8**	30	-	120	
209	Bi	3	6526193	0.64	7619000	**85.7**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\155SMPL.D\155SMPL.D#
Date Acquired: May 28 2010 06:38 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-E MSD Vial Number: 4306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.095**	ug/l	104.75	4.7	450	6	P	
23	**Na**	2	**437.800**	ug/l	21,890.00	1.8	450000	45	P	
24	**Mg**	2	**7542.000**	ug/l	377,100.00	2.7	450000	45	A	
27	**Al**	2	**4484.000**	ug/l	224,200.00	1.5	450000	45	P	
31	**P**	2	**456.600**	ug/l	22,830.00	2.6	450000	45	P	
39	**K**	2	**744.500**	ug/l	37,225.00	2.5	450000	45	P	
44	**Ca**	2	**613.200**	ug/l	30,660.00	1.4	450000	45	P	
47	**Ti**	2	**127.100**	ug/l	6,355.00	1.3	4500	45	P	
51	**V**	2	**33.330**	ug/l	1,666.50	1.3	4500	45	P	
52	**Cr**	2	**176.000**	ug/l	8,800.00	2.7	4500	45	P	
54	**Fe**	2	**26250.000**	ug/l	1,312,500.00	1.5	450000	74	A	
55	**Mn**	2	**394.400**	ug/l	19,720.00	1.9	15000	45	P	
59	**Co**	2	**68.690**	ug/l	3,434.50	1.4	4500	45	P	
60	**Ni**	2	**897.700**	ug/l	44,885.00	0.8	15000	45	P	
63	**Cu**	2	**15.350**	ug/l	767.50	1.6	15000	45	P	
66	**Zn**	2	**38.590**	ug/l	1,929.50	3.2	15000	45	P	
75	**As**	2	**80.630**	ug/l	4,031.50	1.7	4500	74	P	
78	**Se**	2	**82.950**	ug/l	4,147.50	3.0	4500	74	P	
88	**Sr**	3	**4.796**	ug/l	239.80	2.2	4500	74	P	
95	**Mo**	3	**102.300**	ug/l	5,115.00	1.2	4500	74	P	
107	**Ag**	3	**12.230**	ug/l	611.50	0.5	450	103	P	
111	**Cd**	3	**2.102**	ug/l	105.10	2.9	900	103	P	
118	**Sn**	3	**104.400**	ug/l	5,220.00	2.0	4500	103	P	
121	**Sb**	3	**54.320**	ug/l	2,716.00	1.2	4500	103	P	
135	**Ba**	3	**125.400**	ug/l	6,270.00	1.7	4500	103	P	
200	**Hg**	3	**194.000**	ug/l	9,700.00	0.5	45	209	P	Fail
205	**Tl**	3	**81.630**	ug/l	4,081.50	0.3	4500	209	A	
208	**Pb**	3	**22.560**	ug/l	1,128.00	1.3	4500	209	P	
238	**U**	3	**0.064**	ug/l	3.19	7.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3929294	1.69	5119000	**76.8**	30	-	120	
45	Sc	1	163397	2.10	341400	**47.9**	30	-	120	
45	Sc	2	214768	1.75	273900	**78.4**	30	-	120	
74	Ge	1	136638	1.29	283600	**48.2**	30	-	120	
74	Ge	2	338658	1.32	422600	**80.1**	30	-	120	
74	Ge	3	1387355	1.15	1674000	**82.9**	30	-	120	
103	Rh	2	652729	1.20	814900	**80.1**	30	-	120	
103	Rh	3	1269415	1.00	1535000	**82.7**	30	-	120	
165	Ho	3	2866197	0.33	3236000	**88.6**	30	-	120	
175	Lu	3	3189364	1.75	3584000	**89.0**	30	-	120	
209	Bi	3	6625259	0.34	7619000	**87.0**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\156SMPL.D\156SMPL.D#
Date Acquired: May 28 2010 06:45 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-B PDS Vial Number: 4307
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.113**	ug/l	105.65	0.4	450	6	P	
23	**Na**	2	**441.800**	ug/l	22,090.00	1.2	450000	45	P	
24	**Mg**	2	**7558.000**	ug/l	377,900.00	0.5	450000	45	A	
27	**Al**	2	**4509.000**	ug/l	225,450.00	0.9	450000	45	P	
31	**P**	2	**432.100**	ug/l	21,605.00	3.4	450000	45	P	
39	**K**	2	**753.200**	ug/l	37,660.00	0.7	450000	45	P	
44	**Ca**	2	**630.100**	ug/l	31,505.00	2.6	450000	45	P	
47	**Ti**	2	**131.900**	ug/l	6,595.00	2.0	4500	45	P	
51	**V**	2	**33.770**	ug/l	1,688.50	0.6	4500	45	P	
52	**Cr**	2	**178.600**	ug/l	8,930.00	0.8	4500	45	P	
54	**Fe**	2	**25990.000**	ug/l	1,299,500.00	0.7	450000	74	A	
55	**Mn**	2	**398.500**	ug/l	19,925.00	0.8	15000	45	P	
59	**Co**	2	**69.590**	ug/l	3,479.50	1.2	4500	45	P	
60	**Ni**	2	**908.100**	ug/l	45,405.00	0.9	15000	45	P	
63	**Cu**	2	**15.610**	ug/l	780.50	1.8	15000	45	P	
66	**Zn**	2	**38.930**	ug/l	1,946.50	3.2	15000	45	P	
75	**As**	2	**79.600**	ug/l	3,980.00	1.0	4500	74	P	
78	**Se**	2	**81.750**	ug/l	4,087.50	9.9	4500	74	P	
88	**Sr**	3	**4.733**	ug/l	236.65	0.8	4500	74	P	
95	**Mo**	3	**102.200**	ug/l	5,110.00	1.0	4500	74	P	
107	**Ag**	3	**12.130**	ug/l	606.50	1.3	450	103	P	
111	**Cd**	3	**1.948**	ug/l	97.40	10.1	900	103	P	
118	**Sn**	3	**102.100**	ug/l	5,105.00	2.2	4500	103	P	
121	**Sb**	3	**53.700**	ug/l	2,685.00	1.9	4500	103	P	
135	**Ba**	3	**122.900**	ug/l	6,145.00	1.6	4500	103	P	
200	**Hg**	3	**192.700**	ug/l	9,635.00	0.7	45	209	P	Fail
205	**Tl**	3	**80.540**	ug/l	4,027.00	0.3	4500	209	A	
208	**Pb**	3	**22.310**	ug/l	1,115.50	0.8	4500	209	P	
238	**U**	3	**0.065**	ug/l	3.25	2.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3928418	0.21	5119000	**76.7**	30	-	120	
45	Sc	1	163943	1.00	341400	**48.0**	30	-	120	
45	Sc	2	216092	0.47	273900	**78.9**	30	-	120	
74	Ge	1	136654	0.80	283600	**48.2**	30	-	120	
74	Ge	2	348505	1.35	422600	**82.5**	30	-	120	
74	Ge	3	1431232	0.96	1674000	**85.5**	30	-	120	
103	Rh	2	670343	0.76	814900	**82.3**	30	-	120	
103	Rh	3	1322083	1.72	1535000	**86.1**	30	-	120	
165	Ho	3	2889749	0.55	3236000	**89.3**	30	-	120	
175	Lu	3	3206147	0.13	3584000	**89.5**	30	-	120	
209	Bi	3	6723060	0.59	7619000	**88.2**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\157SMPL.D\157SMPL.D#
Date Acquired: May 28 2010 06:52 am Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64541/22-A Vial Number: 4308
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.082**	ug/l	104.10	1.2	450	6	P	
23	**Na**	2	**427.100**	ug/l	21,355.00	0.4	450000	45	P	
24	**Mg**	2	**422.600**	ug/l	21,130.00	0.6	450000	45	P	
27	**Al**	2	**79.720**	ug/l	3,986.00	3.1	450000	45	P	
31	**P**	2	**365.700**	ug/l	18,285.00	4.5	450000	45	P	
39	**K**	2	**427.100**	ug/l	21,355.00	0.2	450000	45	P	
44	**Ca**	2	**419.200**	ug/l	20,960.00	7.7	450000	45	P	
47	**Ti**	2	**101.200**	ug/l	5,060.00	1.1	4500	45	P	
51	**V**	2	**20.650**	ug/l	1,032.50	1.5	4500	45	P	
52	**Cr**	2	**8.306**	ug/l	415.30	0.5	4500	45	P	
54	**Fe**	2	**451.800**	ug/l	22,590.00	0.6	450000	74	P	
55	**Mn**	2	**21.450**	ug/l	1,072.50	1.3	15000	45	P	
59	**Co**	2	**21.700**	ug/l	1,085.00	0.3	4500	45	P	
60	**Ni**	2	**21.980**	ug/l	1,099.00	1.5	15000	45	P	
63	**Cu**	2	**11.020**	ug/l	551.00	0.4	15000	45	P	
66	**Zn**	2	**21.960**	ug/l	1,098.00	1.2	15000	45	P	
75	**As**	2	**80.160**	ug/l	4,008.00	0.5	4500	74	P	
78	**Se**	2	**82.930**	ug/l	4,146.50	6.4	4500	74	P	
88	**Sr**	3	**0.008**	ug/l	0.39	47.2	4500	74	P	
95	**Mo**	3	**106.700**	ug/l	5,335.00	0.7	4500	74	P	
107	**Ag**	3	**12.580**	ug/l	629.00	0.4	450	103	P	
111	**Cd**	3	**2.012**	ug/l	100.60	7.0	900	103	P	
118	**Sn**	3	**105.700**	ug/l	5,285.00	1.1	4500	103	P	
121	**Sb**	3	**60.610**	ug/l	3,030.50	0.8	4500	103	P	
135	**Ba**	3	**84.190**	ug/l	4,209.50	1.6	4500	103	P	
200	**Hg**	3	**11.450**	ug/l	572.50	1.4	45	209	P	
205	**Tl**	3	**78.440**	ug/l	3,922.00	2.8	4500	209	A	
208	**Pb**	3	**20.750**	ug/l	1,037.50	1.7	4500	209	P	
238	**U**	3	**-0.001**	ug/l	-0.07	21.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3494093	1.96	5119000	**68.3**	30	-	120	
45	Sc	1	151609	1.35	341400	**44.4**	30	-	120	
45	Sc	2	206803	0.82	273900	**75.5**	30	-	120	
74	Ge	1	128824	0.57	283600	**45.4**	30	-	120	
74	Ge	2	343198	1.23	422600	**81.2**	30	-	120	
74	Ge	3	1344372	1.35	1674000	**80.3**	30	-	120	
103	Rh	2	675378	1.07	814900	**82.9**	30	-	120	
103	Rh	3	1281033	1.16	1535000	**83.5**	30	-	120	
165	Ho	3	2877140	1.12	3236000	**88.9**	30	-	120	
175	Lu	3	3201330	1.34	3584000	**89.3**	30	-	120	
209	Bi	3	6890174	1.83	7619000	**90.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\158SMPL.D\158SMPL.D#
Date Acquired: May 28 2010 06:59 am Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64541/23-A Vial Number: 4309
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.068**	ug/l	103.40	4.7	450	6	P	
23	**Na**	2	**425.400**	ug/l	21,270.00	1.4	450000	45	P	
24	**Mg**	2	**417.900**	ug/l	20,895.00	1.3	450000	45	P	
27	**Al**	2	**77.440**	ug/l	3,872.00	1.9	450000	45	P	
31	**P**	2	**384.100**	ug/l	19,205.00	2.4	450000	45	P	
39	**K**	2	**426.000**	ug/l	21,300.00	1.1	450000	45	P	
44	**Ca**	2	**422.900**	ug/l	21,145.00	3.1	450000	45	P	
47	**Ti**	2	**99.530**	ug/l	4,976.50	0.2	4500	45	P	
51	**V**	2	**21.040**	ug/l	1,052.00	1.6	4500	45	P	
52	**Cr**	2	**8.389**	ug/l	419.45	0.8	4500	45	P	
54	**Fe**	2	**449.800**	ug/l	22,490.00	0.2	450000	74	P	
55	**Mn**	2	**21.390**	ug/l	1,069.50	1.3	15000	45	P	
59	**Co**	2	**21.500**	ug/l	1,075.00	1.1	4500	45	P	
60	**Ni**	2	**21.290**	ug/l	1,064.50	2.2	15000	45	P	
63	**Cu**	2	**11.240**	ug/l	562.00	2.1	15000	45	P	
66	**Zn**	2	**22.610**	ug/l	1,130.50	4.5	15000	45	P	
75	**As**	2	**80.510**	ug/l	4,025.50	1.0	4500	74	P	
78	**Se**	2	**87.140**	ug/l	4,357.00	3.6	4500	74	P	
88	**Sr**	3	**0.009**	ug/l	0.43	12.5	4500	74	P	
95	**Mo**	3	**106.500**	ug/l	5,325.00	0.6	4500	74	P	
107	**Ag**	3	**12.560**	ug/l	628.00	2.7	450	103	P	
111	**Cd**	3	**2.065**	ug/l	103.25	4.8	900	103	P	
118	**Sn**	3	**105.600**	ug/l	5,280.00	2.0	4500	103	P	
121	**Sb**	3	**60.210**	ug/l	3,010.50	2.4	4500	103	P	
135	**Ba**	3	**84.850**	ug/l	4,242.50	1.7	4500	103	P	
200	**Hg**	3	**10.450**	ug/l	522.50	2.7	45	209	P	
205	**Tl**	3	**80.780**	ug/l	4,039.00	0.2	4500	209	A	
208	**Pb**	3	**21.240**	ug/l	1,062.00	0.8	4500	209	P	
238	**U**	3	**-0.002**	ug/l	-0.08	8.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3537906	0.57	5119000	**69.1**	30	-	120	
45	Sc	1	151635	0.38	341400	**44.4**	30	-	120	
45	Sc	2	206662	1.38	273900	**75.5**	30	-	120	
74	Ge	1	128826	0.75	283600	**45.4**	30	-	120	
74	Ge	2	342363	1.17	422600	**81.0**	30	-	120	
74	Ge	3	1361453	1.18	1674000	**81.3**	30	-	120	
103	Rh	2	672777	1.36	814900	**82.6**	30	-	120	
103	Rh	3	1286733	1.31	1535000	**83.8**	30	-	120	
165	Ho	3	2858065	1.70	3236000	**88.3**	30	-	120	
175	Lu	3	3205337	1.15	3584000	**89.4**	30	-	120	
209	Bi	3	6836575	0.51	7619000	**89.7**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\159SMPL.D\159SMPL.D#
Date Acquired: May 28 2010 07:07 am Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64541/24-A Vial Number: 4310
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**92.760**	ug/l	1,855.20	1.4	450	6	P	
23	**Na**	2	**319.700**	ug/l	6,394.00	2.3	450000	45	P	
24	**Mg**	2	**2403.000**	ug/l	48,060.00	1.8	450000	45	A	
27	**Al**	2	**5611.000**	ug/l	112,220.00	3.3	450000	45	A	
31	**P**	2	**398.900**	ug/l	7,978.00	5.7	450000	45	P	
39	**K**	2	**2390.000**	ug/l	47,800.00	1.7	450000	45	P	
44	**Ca**	2	**5552.000**	ug/l	111,040.00	1.6	450000	45	P	
47	**Ti**	2	**269.800**	ug/l	5,396.00	0.6	4500	45	P	
51	**V**	2	**56.900**	ug/l	1,138.00	0.5	4500	45	P	
52	**Cr**	2	**73.230**	ug/l	1,464.60	1.8	4500	45	P	
54	**Fe**	2	**10170.000**	ug/l	203,400.00	1.3	450000	74	A	
55	**Mn**	2	**216.000**	ug/l	4,320.00	1.4	15000	45	P	
59	**Co**	2	**71.190**	ug/l	1,423.80	1.2	4500	45	P	
60	**Ni**	2	**106.400**	ug/l	2,128.00	2.2	15000	45	P	
63	**Cu**	2	**40.400**	ug/l	808.00	1.7	15000	45	P	
66	**Zn**	2	**216.700**	ug/l	4,334.00	2.6	15000	45	P	
75	**As**	2	**129.500**	ug/l	2,590.00	0.3	4500	74	P	
78	**Se**	2	**85.230**	ug/l	1,704.60	3.9	4500	74	P	
88	**Sr**	3	**72.820**	ug/l	1,456.40	1.3	4500	74	P	
95	**Mo**	3	**67.280**	ug/l	1,345.60	1.2	4500	74	P	
107	**Ag**	3	**20.920**	ug/l	418.40	1.5	450	103	P	
111	**Cd**	3	**39.400**	ug/l	788.00	0.6	900	103	P	
118	**Sn**	3	**100.200**	ug/l	2,004.00	0.8	4500	103	P	
121	**Sb**	3	**84.370**	ug/l	1,687.40	1.0	4500	103	P	
135	**Ba**	3	**337.300**	ug/l	6,746.00	0.7	4500	103	P	
200	**Hg**	3	**14.440**	ug/l	288.80	1.7	45	209	P	
205	**Tl**	3	**101.100**	ug/l	2,022.00	1.3	4500	209	A	
208	**Pb**	3	**126.400**	ug/l	2,528.00	1.1	4500	209	A	
238	**U**	3	**1.043**	ug/l	20.86	1.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3797768	1.15	5119000	**74.2**	30	-	120	
45	Sc	1	162857	1.25	341400	**47.7**	30	-	120	
45	Sc	2	214206	1.62	273900	**78.2**	30	-	120	
74	Ge	1	139348	1.61	283600	**49.1**	30	-	120	
74	Ge	2	347051	0.76	422600	**82.1**	30	-	120	
74	Ge	3	1428608	2.22	1674000	**85.3**	30	-	120	
103	Rh	2	669380	0.54	814900	**82.1**	30	-	120	
103	Rh	3	1323928	0.64	1535000	**86.2**	30	-	120	
165	Ho	3	2929695	0.66	3236000	**90.5**	30	-	120	
175	Lu	3	3282597	1.45	3584000	**91.6**	30	-	120	
209	Bi	3	6872919	1.22	7619000	**90.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\160SMPL.D\160SMPL.D#
Date Acquired: May 28 2010 07:14 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**51.720**	ug/l	51.72	1.5	450	6	P	
23	**Na**	2	**4959.000**	ug/l	4,959.00	0.6	450000	45	A	
24	**Mg**	2	**5054.000**	ug/l	5,054.00	1.5	450000	45	A	
27	**Al**	2	**487.700**	ug/l	487.70	1.4	450000	45	P	
31	**P**	2	**4769.000**	ug/l	4,769.00	1.8	450000	45	P	
39	**K**	2	**5116.000**	ug/l	5,116.00	1.6	450000	45	A	
44	**Ca**	2	**5070.000**	ug/l	5,070.00	0.7	450000	45	P	
47	**Ti**	2	**52.080**	ug/l	52.08	1.9	4500	45	P	
51	**V**	2	**52.870**	ug/l	52.87	0.9	4500	45	P	
52	**Cr**	2	**52.860**	ug/l	52.86	0.8	4500	45	P	
54	**Fe**	2	**5128.000**	ug/l	5,128.00	1.1	450000	74	P	
55	**Mn**	2	**53.470**	ug/l	53.47	0.8	15000	45	P	
59	**Co**	2	**53.890**	ug/l	53.89	0.9	4500	45	P	
60	**Ni**	2	**53.950**	ug/l	53.95	3.2	15000	45	P	
63	**Cu**	2	**54.430**	ug/l	54.43	0.3	15000	45	P	
66	**Zn**	2	**55.040**	ug/l	55.04	3.1	15000	45	P	
75	**As**	2	**51.410**	ug/l	51.41	1.0	4500	74	P	
78	**Se**	2	**52.040**	ug/l	52.04	2.2	4500	74	P	
88	**Sr**	3	**54.050**	ug/l	54.05	0.7	4500	74	P	
95	**Mo**	3	**53.120**	ug/l	53.12	1.4	4500	74	P	
107	**Ag**	3	**51.570**	ug/l	51.57	1.3	450	103	P	
111	**Cd**	3	**51.790**	ug/l	51.79	0.3	900	103	P	
118	**Sn**	3	**52.210**	ug/l	52.21	0.6	4500	103	P	
121	**Sb**	3	**52.010**	ug/l	52.01	1.5	4500	103	P	
135	**Ba**	3	**52.930**	ug/l	52.93	2.6	4500	103	P	
200	**Hg**	3	**12.390**	ug/l	12.39	0.4	45	209	P	
205	**Tl**	3	**53.410**	ug/l	53.41	1.2	4500	209	P	
208	**Pb**	3	**53.200**	ug/l	53.20	0.6	4500	209	P	
238	**U**	3	**53.070**	ug/l	53.07	1.9	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3819483	1.38	5119000	**74.6**	30	-	120	
45	Sc	1	172546	1.14	341400	**50.5**	30	-	120	
45	Sc	2	220437	1.04	273900	**80.5**	30	-	120	
74	Ge	1	148137	1.21	283600	**52.2**	30	-	120	
74	Ge	2	359944	0.47	422600	**85.2**	30	-	120	
74	Ge	3	1466613	0.68	1674000	**87.6**	30	-	120	
103	Rh	2	693487	1.27	814900	**85.1**	30	-	120	
103	Rh	3	1366993	1.04	1535000	**89.1**	30	-	120	
165	Ho	3	3010715	1.92	3236000	**93.0**	30	-	120	
175	Lu	3	3325168	1.58	3584000	**92.8**	30	-	120	
209	Bi	3	6934116	1.24	7619000	**91.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\161SMPL.D\161SMPL.D#
Date Acquired: May 28 2010 07:21 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.013**	ug/l	0.01	28.9	450	6	P	
23	**Na**	2	**1.929**	ug/l	1.93	57.0	450000	45	P	
24	**Mg**	2	**2.708**	ug/l	2.71	11.1	450000	45	P	
27	**Al**	2	**0.494**	ug/l	0.49	24.3	450000	45	P	
31	**P**	2	**-9.774**	ug/l	-9.77	46.9	450000	45	P	
39	**K**	2	**1.838**	ug/l	1.84	88.8	450000	45	P	
44	**Ca**	2	**1.648**	ug/l	1.65	120.3	450000	45	P	
47	**Ti**	2	**0.040**	ug/l	0.04	26.2	4500	45	P	
51	**V**	2	**-0.122**	ug/l	-0.12	18.9	4500	45	P	
52	**Cr**	2	**-0.011**	ug/l	-0.01	385.7	4500	45	P	
54	**Fe**	2	**1.184**	ug/l	1.18	29.5	450000	74	P	
55	**Mn**	2	**0.082**	ug/l	0.08	18.5	15000	45	P	
59	**Co**	2	**0.027**	ug/l	0.03	10.4	4500	45	P	
60	**Ni**	2	**0.054**	ug/l	0.05	72.6	15000	45	P	
63	**Cu**	2	**0.035**	ug/l	0.03	99.2	15000	45	P	
66	**Zn**	2	**0.134**	ug/l	0.13	57.5	15000	45	P	
75	**As**	2	**-0.026**	ug/l	-0.03	141.3	4500	74	P	
78	**Se**	2	**-0.493**	ug/l	-0.49	53.2	4500	74	P	
88	**Sr**	3	**0.013**	ug/l	0.01	65.1	4500	74	P	
95	**Mo**	3	**0.015**	ug/l	0.01	124.3	4500	74	P	
107	**Ag**	3	**0.010**	ug/l	0.01	30.9	450	103	P	
111	**Cd**	3	**0.008**	ug/l	0.01	130.0	900	103	P	
118	**Sn**	3	**0.075**	ug/l	0.07	13.6	4500	103	P	
121	**Sb**	3	**0.076**	ug/l	0.08	16.5	4500	103	P	
135	**Ba**	3	**0.041**	ug/l	0.04	36.4	4500	103	P	
200	**Hg**	3	**9.217**	ug/l	9.22	2.1	45	209	P	
205	**Tl**	3	**0.700**	ug/l	0.70	2.8	4500	209	P	
208	**Pb**	3	**0.017**	ug/l	0.02	6.4	4500	209	P	
238	**U**	3	**0.011**	ug/l	0.01	10.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3636710	1.40	5119000	**71.0**	30	-	120	
45	Sc	1	160346	0.59	341400	**47.0**	30	-	120	
45	Sc	2	217451	0.86	273900	**79.4**	30	-	120	
74	Ge	1	139539	1.12	283600	**49.2**	30	-	120	
74	Ge	2	361917	0.67	422600	**85.6**	30	-	120	
74	Ge	3	1418573	1.76	1674000	**84.7**	30	-	120	
103	Rh	2	715312	0.94	814900	**87.8**	30	-	120	
103	Rh	3	1337412	1.56	1535000	**87.1**	30	-	120	
165	Ho	3	2952242	0.74	3236000	**91.2**	30	-	120	
175	Lu	3	3286719	1.93	3584000	**91.7**	30	-	120	
209	Bi	3	7051537	1.74	7619000	**92.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\162SMPL.D\162SMPL.D#
Date Acquired: May 28 2010 07:28 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-32-B Vial Number: 4401
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.722**	ug/l	7.22	7.2	450	6	P	
23	**Na**	2	**201.700**	ug/l	2,017.00	2.6	450000	45	P	
24	**Mg**	2	**17380.000**	ug/l	173,800.00	1.1	450000	45	A	
27	**Al**	2	**20270.000**	ug/l	202,700.00	1.5	450000	45	A	
31	**P**	2	**592.700**	ug/l	5,927.00	3.7	450000	45	P	
39	**K**	2	**2190.000**	ug/l	21,900.00	0.4	450000	45	P	
44	**Ca**	2	**1280.000**	ug/l	12,800.00	2.8	450000	45	P	
47	**Ti**	2	**203.100**	ug/l	2,031.00	1.4	4500	45	P	
51	**V**	2	**70.190**	ug/l	701.90	1.4	4500	45	P	
52	**Cr**	2	**1023.000**	ug/l	10,230.00	2.4	4500	45	A	
54	**Fe**	2	**144200.000**	ug/l	1,442,000.00	1.0	450000	74	A	
55	**Mn**	2	**2226.000**	ug/l	22,260.00	1.0	15000	45	A	
59	**Co**	2	**302.400**	ug/l	3,024.00	0.6	4500	45	P	
60	**Ni**	2	**3789.000**	ug/l	37,890.00	1.3	15000	45	A	
63	**Cu**	2	**26.890**	ug/l	268.90	2.1	15000	45	P	
66	**Zn**	2	**89.720**	ug/l	897.20	0.7	15000	45	P	
75	**As**	2	**9.024**	ug/l	90.24	2.4	4500	74	P	
78	**Se**	2	**0.542**	ug/l	5.42	63.6	4500	74	P	
88	**Sr**	3	**26.650**	ug/l	266.50	4.4	4500	74	P	
95	**Mo**	3	**0.463**	ug/l	4.63	11.3	4500	74	P	
107	**Ag**	3	**0.067**	ug/l	0.67	9.3	450	103	P	
111	**Cd**	3	**0.198**	ug/l	1.98	27.7	900	103	P	
118	**Sn**	3	**0.895**	ug/l	8.95	1.8	4500	103	P	
121	**Sb**	3	**1.498**	ug/l	14.98	5.2	4500	103	P	
135	**Ba**	3	**254.700**	ug/l	2,547.00	0.6	4500	103	P	
200	**Hg**	3	**52.400**	ug/l	524.00	1.0	45	209	P	Fail
205	**Tl**	3	**0.739**	ug/l	7.39	3.4	4500	209	P	
208	**Pb**	3	**14.340**	ug/l	143.40	0.7	4500	209	P	
238	**U**	3	**0.391**	ug/l	3.91	1.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3256325	1.82	5119000	**63.6**	30	-	120	
45	Sc	1	181110	0.59	341400	**53.0**	30	-	120	
45	Sc	2	218679	1.48	273900	**79.8**	30	-	120	
74	Ge	1	136961	1.13	283600	**48.3**	30	-	120	
74	Ge	2	319236	0.76	422600	**75.5**	30	-	120	
74	Ge	3	1299633	3.80	1674000	**77.6**	30	-	120	
103	Rh	2	615477	1.21	814900	**75.5**	30	-	120	
103	Rh	3	1218553	0.50	1535000	**79.4**	30	-	120	
165	Ho	3	2794449	0.63	3236000	**86.4**	30	-	120	
175	Lu	3	3136749	1.78	3584000	**87.5**	30	-	120	
209	Bi	3	6369790	0.69	7619000	**83.6**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\163SMPL.D\163SMPL.D#
Date Acquired: May 28 2010 07:35 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-1-E Vial Number: 4402
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.047**	ug/l	10.47	1.3	450	6	P	
23	**Na**	2	**157.000**	ug/l	1,570.00	1.4	450000	45	P	
24	**Mg**	2	**86920.000**	ug/l	869,200.00	1.4	450000	45	A	
27	**Al**	2	**35450.000**	ug/l	354,500.00	1.1	450000	45	A	
31	**P**	2	**598.400**	ug/l	5,984.00	1.3	450000	45	P	
39	**K**	2	**2492.000**	ug/l	24,920.00	2.3	450000	45	M	
44	**Ca**	2	**20410.000**	ug/l	204,100.00	1.1	450000	45	P	
47	**Ti**	2	**360.500**	ug/l	3,605.00	2.0	4500	45	P	
51	**V**	2	**103.600**	ug/l	1,036.00	0.1	4500	45	P	
52	**Cr**	2	**463.000**	ug/l	4,630.00	0.7	4500	45	A	
54	**Fe**	2	**73660.000**	ug/l	736,600.00	0.5	450000	74	A	
55	**Mn**	2	**1249.000**	ug/l	12,490.00	0.4	15000	45	A	
59	**Co**	2	**60.950**	ug/l	609.50	1.5	4500	45	P	
60	**Ni**	2	**880.600**	ug/l	8,806.00	1.0	15000	45	P	
63	**Cu**	2	**55.640**	ug/l	556.40	1.9	15000	45	P	
66	**Zn**	2	**120.600**	ug/l	1,206.00	0.8	15000	45	P	
75	**As**	2	**10.660**	ug/l	106.60	1.9	4500	74	P	
78	**Se**	2	**0.636**	ug/l	6.36	44.6	4500	74	P	
88	**Sr**	3	**179.200**	ug/l	1,792.00	2.8	4500	74	A	
95	**Mo**	3	**0.979**	ug/l	9.79	2.8	4500	74	P	
107	**Ag**	3	**0.102**	ug/l	1.02	13.6	450	103	P	
111	**Cd**	3	**0.312**	ug/l	3.12	16.9	900	103	P	
118	**Sn**	3	**1.451**	ug/l	14.51	4.1	4500	103	P	
121	**Sb**	3	**1.545**	ug/l	15.45	4.8	4500	103	P	
135	**Ba**	3	**539.600**	ug/l	5,396.00	1.9	4500	103	P	
200	**Hg**	3	**22.410**	ug/l	224.10	1.4	45	209	P	
205	**Tl**	3	**0.523**	ug/l	5.23	1.5	4500	209	P	
208	**Pb**	3	**18.550**	ug/l	185.50	0.3	4500	209	P	
238	**U**	3	**0.517**	ug/l	5.17	1.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3618497	1.11	5119000	**70.7**	30	-	120	
45	Sc	1	194673	2.07	341400	**57.0**	30	-	120	
45	Sc	2	234566	0.65	273900	**85.6**	30	-	120	
74	Ge	1	149543	1.14	283600	**52.7**	30	-	120	
74	Ge	2	343755	0.87	422600	**81.3**	30	-	120	
74	Ge	3	1432527	1.87	1674000	**85.6**	30	-	120	
103	Rh	2	644673	1.52	814900	**79.1**	30	-	120	
103	Rh	3	1291990	1.47	1535000	**84.2**	30	-	120	
165	Ho	3	2947584	1.22	3236000	**91.1**	30	-	120	
175	Lu	3	3232431	0.58	3584000	**90.2**	30	-	120	
209	Bi	3	6450826	0.63	7619000	**84.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\164SMPL.D\164SMPL.D#
Date Acquired: May 28 2010 07:42 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-2-B Vial Number: 4403
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.030**	ug/l	10.30	4.5	450	6	P	
23	**Na**	2	**139.500**	ug/l	1,395.00	1.4	450000	45	P	
24	**Mg**	2	**112600.000**	ug/l	1,126,000.00	1.7	450000	45	A	
27	**Al**	2	**36690.000**	ug/l	366,900.00	1.0	450000	45	A	
31	**P**	2	**586.700**	ug/l	5,867.00	5.1	450000	45	P	
39	**K**	2	**2212.000**	ug/l	22,120.00	1.8	450000	45	P	
44	**Ca**	2	**27980.000**	ug/l	279,800.00	1.4	450000	45	P	
47	**Ti**	2	**383.000**	ug/l	3,830.00	0.9	4500	45	P	
51	**V**	2	**115.400**	ug/l	1,154.00	1.6	4500	45	P	
52	**Cr**	2	**668.300**	ug/l	6,683.00	2.3	4500	45	A	
54	**Fe**	2	**81580.000**	ug/l	815,800.00	0.9	450000	74	A	
55	**Mn**	2	**1346.000**	ug/l	13,460.00	2.1	15000	45	A	
59	**Co**	2	**75.060**	ug/l	750.60	1.8	4500	45	P	
60	**Ni**	2	**1186.000**	ug/l	11,860.00	2.1	15000	45	P	
63	**Cu**	2	**55.430**	ug/l	554.30	1.6	15000	45	P	
66	**Zn**	2	**106.100**	ug/l	1,061.00	2.5	15000	45	P	
75	**As**	2	**10.840**	ug/l	108.40	2.7	4500	74	P	
78	**Se**	2	**0.942**	ug/l	9.42	44.5	4500	74	P	
88	**Sr**	3	**235.200**	ug/l	2,352.00	1.0	4500	74	A	
95	**Mo**	3	**0.910**	ug/l	9.10	7.7	4500	74	P	
107	**Ag**	3	**0.109**	ug/l	1.09	19.6	450	103	P	
111	**Cd**	3	**0.222**	ug/l	2.22	26.9	900	103	P	
118	**Sn**	3	**1.571**	ug/l	15.71	3.6	4500	103	P	
121	**Sb**	3	**1.707**	ug/l	17.07	3.8	4500	103	P	
135	**Ba**	3	**465.700**	ug/l	4,657.00	1.1	4500	103	P	
200	**Hg**	3	**23.740**	ug/l	237.40	1.0	45	209	P	
205	**Tl**	3	**0.480**	ug/l	4.80	3.6	4500	209	P	
208	**Pb**	3	**19.320**	ug/l	193.20	1.1	4500	209	P	
238	**U**	3	**0.485**	ug/l	4.85	2.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3708417	0.48	5119000	**72.4**	30	-	120	
45	Sc	1	176146	0.56	341400	**51.6**	30	-	120	
45	Sc	2	244182	1.40	273900	**89.2**	30	-	120	
74	Ge	1	132254	1.20	283600	**46.6**	30	-	120	
74	Ge	2	357151	0.55	422600	**84.5**	30	-	120	
74	Ge	3	1495393	0.35	1674000	**89.3**	30	-	120	
103	Rh	2	657293	0.79	814900	**80.7**	30	-	120	
103	Rh	3	1334968	1.51	1535000	**87.0**	30	-	120	
165	Ho	3	2997270	1.61	3236000	**92.6**	30	-	120	
175	Lu	3	3303988	1.14	3584000	**92.2**	30	-	120	
209	Bi	3	6514145	0.17	7619000	**85.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\165SMPL.D\165SMPL.D#
Date Acquired: May 28 2010 07:49 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-3-B Vial Number: 4404
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.949**	ug/l	19.49	2.4	450	6	P	
23	**Na**	2	**520.300**	ug/l	5,203.00	2.8	450000	45	P	
24	**Mg**	2	**32890.000**	ug/l	328,900.00	2.7	450000	45	A	
27	**Al**	2	**32200.000**	ug/l	322,000.00	2.5	450000	45	A	
31	**P**	2	**1456.000**	ug/l	14,560.00	4.4	450000	45	P	
39	**K**	2	**3865.000**	ug/l	38,650.00	2.9	450000	45	A	
44	**Ca**	2	**25080.000**	ug/l	250,800.00	2.2	450000	45	P	
47	**Ti**	2	**1180.000**	ug/l	11,800.00	1.4	4500	45	P	
51	**V**	2	**111.800**	ug/l	1,118.00	1.8	4500	45	P	
52	**Cr**	2	**277.600**	ug/l	2,776.00	1.2	4500	45	P	
54	**Fe**	2	**73760.000**	ug/l	737,600.00	1.6	450000	74	A	
55	**Mn**	2	**1681.000**	ug/l	16,810.00	1.9	15000	45	A	
59	**Co**	2	**45.530**	ug/l	455.30	0.9	4500	45	P	
60	**Ni**	2	**393.200**	ug/l	3,932.00	0.6	15000	45	P	
63	**Cu**	2	**207.200**	ug/l	2,072.00	1.2	15000	45	P	
66	**Zn**	2	**13810.000**	ug/l	138,100.00	2.1	15000	45	A	
75	**As**	2	**12.950**	ug/l	129.50	2.9	4500	74	P	
78	**Se**	2	**2.855**	ug/l	28.55	7.5	4500	74	P	
88	**Sr**	3	**114.300**	ug/l	1,143.00	1.5	4500	74	A	
95	**Mo**	3	**2.151**	ug/l	21.51	4.8	4500	74	P	
107	**Ag**	3	**0.472**	ug/l	4.72	1.4	450	103	P	
111	**Cd**	3	**29.840**	ug/l	298.40	0.9	900	103	P	
118	**Sn**	3	**42.370**	ug/l	423.70	1.3	4500	103	P	
121	**Sb**	3	**6.121**	ug/l	61.21	2.1	4500	103	P	
135	**Ba**	3	**1795.000**	ug/l	17,950.00	1.1	4500	103	A	
200	**Hg**	3	**13.420**	ug/l	134.20	1.5	45	209	P	
205	**Tl**	3	**0.343**	ug/l	3.43	1.0	4500	209	P	
208	**Pb**	3	**950.200**	ug/l	9,502.00	0.5	4500	209	A	
238	**U**	3	**1.166**	ug/l	11.66	1.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3979491	0.86	5119000	**77.7**	30	-	120	
45	Sc	1	167420	1.77	341400	**49.0**	30	-	120	
45	Sc	2	250413	1.41	273900	**91.4**	30	-	120	
74	Ge	1	128822	0.76	283600	**45.4**	30	-	120	
74	Ge	2	370660	1.24	422600	**87.7**	30	-	120	
74	Ge	3	1523051	1.52	1674000	**91.0**	30	-	120	
103	Rh	2	693662	1.39	814900	**85.1**	30	-	120	
103	Rh	3	1375516	0.61	1535000	**89.6**	30	-	120	
165	Ho	3	3045900	2.61	3236000	**94.1**	30	-	120	
175	Lu	3	3382301	0.59	3584000	**94.4**	30	-	120	
209	Bi	3	6751512	0.18	7619000	**88.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\166SMPL.D\166SMPL.D#
Date Acquired: May 28 2010 07:56 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-4-B Vial Number: 4405
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.983**	ug/l	9.83	5.3	450	6	P	
23	**Na**	2	**124.200**	ug/l	1,242.00	3.2	450000	45	P	
24	**Mg**	2	**81760.000**	ug/l	817,600.00	1.3	450000	45	A	
27	**Al**	2	**32540.000**	ug/l	325,400.00	2.0	450000	45	A	
31	**P**	2	**652.800**	ug/l	6,528.00	1.1	450000	45	P	
39	**K**	2	**2154.000**	ug/l	21,540.00	2.3	450000	45	P	
44	**Ca**	2	**10700.000**	ug/l	107,000.00	1.4	450000	45	P	
47	**Ti**	2	**346.100**	ug/l	3,461.00	3.0	4500	45	P	
51	**V**	2	**102.400**	ug/l	1,024.00	1.1	4500	45	P	
52	**Cr**	2	**628.600**	ug/l	6,286.00	0.9	4500	45	A	
54	**Fe**	2	**77380.000**	ug/l	773,800.00	1.0	450000	74	A	
55	**Mn**	2	**1355.000**	ug/l	13,550.00	1.3	15000	45	A	
59	**Co**	2	**76.550**	ug/l	765.50	2.1	4500	45	P	
60	**Ni**	2	**1182.000**	ug/l	11,820.00	2.5	15000	45	M	
63	**Cu**	2	**56.100**	ug/l	561.00	1.9	15000	45	P	
66	**Zn**	2	**134.500**	ug/l	1,345.00	4.4	15000	45	P	
75	**As**	2	**11.640**	ug/l	116.40	2.2	4500	74	P	
78	**Se**	2	**0.451**	ug/l	4.51	62.4	4500	74	P	
88	**Sr**	3	**89.690**	ug/l	896.90	0.4	4500	74	P	
95	**Mo**	3	**0.879**	ug/l	8.79	10.7	4500	74	P	
107	**Ag**	3	**0.126**	ug/l	1.26	10.0	450	103	P	
111	**Cd**	3	**0.304**	ug/l	3.04	16.4	900	103	P	
118	**Sn**	3	**1.369**	ug/l	13.69	0.7	4500	103	P	
121	**Sb**	3	**1.436**	ug/l	14.36	3.5	4500	103	P	
135	**Ba**	3	**382.200**	ug/l	3,822.00	1.1	4500	103	P	
200	**Hg**	3	**32.810**	ug/l	328.10	0.8	45	209	P	
205	**Tl**	3	**0.395**	ug/l	3.95	3.8	4500	209	P	
208	**Pb**	3	**20.500**	ug/l	205.00	1.5	4500	209	P	
238	**U**	3	**0.509**	ug/l	5.09	3.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3857486	0.81	5119000	**75.4**	30	-	120	
45	Sc	1	163197	2.87	341400	**47.8**	30	-	120	
45	Sc	2	252134	1.21	273900	**92.1**	30	-	120	
74	Ge	1	122892	3.93	283600	**43.3**	30	-	120	
74	Ge	2	369152	1.33	422600	**87.4**	30	-	120	
74	Ge	3	1507870	1.17	1674000	**90.1**	30	-	120	
103	Rh	2	681663	1.20	814900	**83.6**	30	-	120	
103	Rh	3	1363089	1.89	1535000	**88.8**	30	-	120	
165	Ho	3	3011810	0.72	3236000	**93.1**	30	-	120	
175	Lu	3	3338839	0.80	3584000	**93.2**	30	-	120	
209	Bi	3	6575265	0.49	7619000	**86.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\167SMPL.D\167SMPL.D#
Date Acquired: May 28 2010 08:04 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-5-B Vial Number: 4406
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.863**	ug/l	8.63	2.3	450	6	P	
23	**Na**	2	**89.030**	ug/l	890.30	2.9	450000	45	P	
24	**Mg**	2	**30500.000**	ug/l	305,000.00	1.7	450000	45	A	
27	**Al**	2	**24520.000**	ug/l	245,200.00	1.5	450000	45	A	
31	**P**	2	**634.900**	ug/l	6,349.00	3.8	450000	45	P	
39	**K**	2	**1557.000**	ug/l	15,570.00	0.8	450000	45	P	
44	**Ca**	2	**10970.000**	ug/l	109,700.00	0.3	450000	45	P	
47	**Ti**	2	**741.200**	ug/l	7,412.00	0.8	4500	45	P	
51	**V**	2	**114.300**	ug/l	1,143.00	0.3	4500	45	P	
52	**Cr**	2	**195.900**	ug/l	1,959.00	1.0	4500	45	P	
54	**Fe**	2	**56990.000**	ug/l	569,900.00	1.0	450000	74	A	
55	**Mn**	2	**1431.000**	ug/l	14,310.00	0.6	15000	45	A	
59	**Co**	2	**33.130**	ug/l	331.30	1.3	4500	45	P	
60	**Ni**	2	**245.400**	ug/l	2,454.00	0.6	15000	45	P	
63	**Cu**	2	**80.860**	ug/l	808.60	0.9	15000	45	P	
66	**Zn**	2	**188.700**	ug/l	1,887.00	1.2	15000	45	P	
75	**As**	2	**14.900**	ug/l	149.00	0.8	4500	74	P	
78	**Se**	2	**0.458**	ug/l	4.58	227.2	4500	74	P	
88	**Sr**	3	**118.500**	ug/l	1,185.00	1.8	4500	74	A	
95	**Mo**	3	**1.898**	ug/l	18.98	3.6	4500	74	P	
107	**Ag**	3	**0.064**	ug/l	0.64	6.8	450	103	P	
111	**Cd**	3	**0.498**	ug/l	4.98	8.4	900	103	P	
118	**Sn**	3	**0.736**	ug/l	7.36	2.0	4500	103	P	
121	**Sb**	3	**0.738**	ug/l	7.38	5.3	4500	103	P	
135	**Ba**	3	**430.000**	ug/l	4,300.00	1.5	4500	103	P	
200	**Hg**	3	**23.410**	ug/l	234.10	2.0	45	209	P	
205	**Tl**	3	**0.325**	ug/l	3.25	4.7	4500	209	P	
208	**Pb**	3	**14.270**	ug/l	142.70	1.0	4500	209	P	
238	**U**	3	**0.267**	ug/l	2.67	2.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3987799	1.06	5119000	**77.9**	30	-	120	
45	Sc	1	170074	0.76	341400	**49.8**	30	-	120	
45	Sc	2	242280	0.59	273900	**88.5**	30	-	120	
74	Ge	1	132188	1.12	283600	**46.6**	30	-	120	
74	Ge	2	366612	1.38	422600	**86.8**	30	-	120	
74	Ge	3	1556577	0.97	1674000	**93.0**	30	-	120	
103	Rh	2	695584	0.25	814900	**85.4**	30	-	120	
103	Rh	3	1381815	1.04	1535000	**90.0**	30	-	120	
165	Ho	3	3111409	0.77	3236000	**96.1**	30	-	120	
175	Lu	3	3401900	0.69	3584000	**94.9**	30	-	120	
209	Bi	3	6820831	1.03	7619000	**89.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\168SMPL.D\168SMPL.D#
Date Acquired: May 28 2010 08:11 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-6-B Vial Number: 4407
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.758**	ug/l	7.58	3.8	450	6	P	
23	**Na**	2	**63.200**	ug/l	632.00	15.1	450000	45	P	
24	**Mg**	2	**29050.000**	ug/l	290,500.00	1.2	450000	45	A	
27	**Al**	2	**18350.000**	ug/l	183,500.00	1.5	450000	45	A	
31	**P**	2	**972.900**	ug/l	9,729.00	0.9	450000	45	P	
39	**K**	2	**2316.000**	ug/l	23,160.00	2.6	450000	45	M	
44	**Ca**	2	**14360.000**	ug/l	143,600.00	1.1	450000	45	P	
47	**Ti**	2	**332.100**	ug/l	3,321.00	1.4	4500	45	P	
51	**V**	2	**69.230**	ug/l	692.30	0.7	4500	45	P	
52	**Cr**	2	**112.200**	ug/l	1,122.00	0.6	4500	45	P	
54	**Fe**	2	**45200.000**	ug/l	452,000.00	1.1	450000	74	A	
55	**Mn**	2	**1010.000**	ug/l	10,100.00	0.9	15000	45	A	
59	**Co**	2	**32.300**	ug/l	323.00	0.8	4500	45	P	
60	**Ni**	2	**277.500**	ug/l	2,775.00	0.6	15000	45	P	
63	**Cu**	2	**64.500**	ug/l	645.00	0.9	15000	45	P	
66	**Zn**	2	**133.500**	ug/l	1,335.00	1.4	15000	45	P	
75	**As**	2	**11.600**	ug/l	116.00	0.5	4500	74	P	
78	**Se**	2	**0.590**	ug/l	5.90	209.7	4500	74	P	
88	**Sr**	3	**129.500**	ug/l	1,295.00	0.8	4500	74	A	
95	**Mo**	3	**0.754**	ug/l	7.54	4.8	4500	74	P	
107	**Ag**	3	**0.118**	ug/l	1.18	9.3	450	103	P	
111	**Cd**	3	**0.431**	ug/l	4.31	10.7	900	103	P	
118	**Sn**	3	**0.640**	ug/l	6.40	4.6	4500	103	P	
121	**Sb**	3	**0.837**	ug/l	8.37	4.5	4500	103	P	
135	**Ba**	3	**420.500**	ug/l	4,205.00	2.1	4500	103	P	
200	**Hg**	3	**30.870**	ug/l	308.70	0.6	45	209	P	
205	**Tl**	3	**0.219**	ug/l	2.19	1.9	4500	209	P	
208	**Pb**	3	**54.060**	ug/l	540.60	0.4	4500	209	P	
238	**U**	3	**0.307**	ug/l	3.07	1.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4252858	0.97	5119000	**83.1**	30	-	120	
45	Sc	1	153614	1.55	341400	**45.0**	30	-	120	
45	Sc	2	243329	0.34	273900	**88.8**	30	-	120	
74	Ge	1	123527	1.14	283600	**43.6**	30	-	120	
74	Ge	2	377863	0.86	422600	**89.4**	30	-	120	
74	Ge	3	1563569	1.70	1674000	**93.4**	30	-	120	
103	Rh	2	708478	0.79	814900	**86.9**	30	-	120	
103	Rh	3	1419264	1.01	1535000	**92.5**	30	-	120	
165	Ho	3	3070665	0.96	3236000	**94.9**	30	-	120	
175	Lu	3	3408652	0.67	3584000	**95.1**	30	-	120	
209	Bi	3	6916818	0.30	7619000	**90.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\169SMPL.D\169SMPL.D#
Date Acquired: May 28 2010 08:18 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-7-B Vial Number: 4408
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.362**	ug/l	13.62	1.5	450	6	P	
23	**Na**	2	**228.400**	ug/l	2,284.00	0.6	450000	45	P	
24	**Mg**	2	**95190.000**	ug/l	951,900.00	0.2	450000	45	A	
27	**Al**	2	**38650.000**	ug/l	386,500.00	0.9	450000	45	A	
31	**P**	2	**758.000**	ug/l	7,580.00	3.4	450000	45	P	
39	**K**	2	**2956.000**	ug/l	29,560.00	1.5	450000	45	A	
44	**Ca**	2	**25150.000**	ug/l	251,500.00	0.3	450000	45	P	
47	**Ti**	2	**455.300**	ug/l	4,553.00	0.9	4500	45	P	
51	**V**	2	**113.800**	ug/l	1,138.00	0.4	4500	45	P	
52	**Cr**	2	**545.800**	ug/l	5,458.00	1.8	4500	45	A	
54	**Fe**	2	**81110.000**	ug/l	811,100.00	1.6	450000	74	A	
55	**Mn**	2	**1428.000**	ug/l	14,280.00	0.1	15000	45	A	
59	**Co**	2	**70.200**	ug/l	702.00	0.8	4500	45	P	
60	**Ni**	2	**1020.000**	ug/l	10,200.00	0.9	15000	45	P	
63	**Cu**	2	**81.610**	ug/l	816.10	1.1	15000	45	P	
66	**Zn**	2	**1968.000**	ug/l	19,680.00	2.3	15000	45	A	
75	**As**	2	**12.380**	ug/l	123.80	2.7	4500	74	P	
78	**Se**	2	**1.333**	ug/l	13.33	60.8	4500	74	P	
88	**Sr**	3	**186.700**	ug/l	1,867.00	1.0	4500	74	A	
95	**Mo**	3	**1.171**	ug/l	11.71	3.2	4500	74	P	
107	**Ag**	3	**0.188**	ug/l	1.88	7.2	450	103	P	
111	**Cd**	3	**3.689**	ug/l	36.89	6.3	900	103	P	
118	**Sn**	3	**7.654**	ug/l	76.54	2.5	4500	103	P	
121	**Sb**	3	**2.022**	ug/l	20.22	3.3	4500	103	P	
135	**Ba**	3	**653.200**	ug/l	6,532.00	2.1	4500	103	P	
200	**Hg**	3	**25.440**	ug/l	254.40	0.9	45	209	P	
205	**Tl**	3	**0.362**	ug/l	3.62	3.1	4500	209	P	
208	**Pb**	3	**98.160**	ug/l	981.60	0.5	4500	209	A	
238	**U**	3	**0.736**	ug/l	7.36	2.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3993903	1.06	5119000	**78.0**	30	-	120	
45	Sc	1	155269	2.20	341400	**45.5**	30	-	120	
45	Sc	2	257976	0.62	273900	**94.2**	30	-	120	
74	Ge	1	116299	0.85	283600	**41.0**	30	-	120	
74	Ge	2	367668	1.47	422600	**87.0**	30	-	120	
74	Ge	3	1527305	1.13	1674000	**91.2**	30	-	120	
103	Rh	2	684723	1.44	814900	**84.0**	30	-	120	
103	Rh	3	1360782	1.54	1535000	**88.7**	30	-	120	
165	Ho	3	3047485	0.31	3236000	**94.2**	30	-	120	
175	Lu	3	3350152	0.69	3584000	**93.5**	30	-	120	
209	Bi	3	6618285	0.45	7619000	**86.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\170SMPL.D\170SMPL.D#
Date Acquired: May 28 2010 08:25 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-8-B Vial Number: 4409
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.351**	ug/l	3.51	5.4	450	6	P	
23	**Na**	2	**46.890**	ug/l	468.90	1.3	450000	45	P	
24	**Mg**	2	**191200.000**	ug/l	1,912,000.00	1.4	450000	45	A	
27	**Al**	2	**13660.000**	ug/l	136,600.00	1.8	450000	45	A	
31	**P**	2	**210.900**	ug/l	2,109.00	4.4	450000	45	P	
39	**K**	2	**704.000**	ug/l	7,040.00	1.4	450000	45	P	
44	**Ca**	2	**28450.000**	ug/l	284,500.00	0.7	450000	45	P	
47	**Ti**	2	**145.100**	ug/l	1,451.00	1.5	4500	45	P	
51	**V**	2	**65.820**	ug/l	658.20	0.5	4500	45	P	
52	**Cr**	2	**1224.000**	ug/l	12,240.00	0.3	4500	45	A	
54	**Fe**	2	**79890.000**	ug/l	798,900.00	0.4	450000	74	A	
55	**Mn**	2	**1391.000**	ug/l	13,910.00	0.4	15000	45	A	
59	**Co**	2	**127.600**	ug/l	1,276.00	0.8	4500	45	P	
60	**Ni**	2	**2414.000**	ug/l	24,140.00	0.5	15000	45	A	
63	**Cu**	2	**29.530**	ug/l	295.30	0.5	15000	45	P	
66	**Zn**	2	**92.840**	ug/l	928.40	0.5	15000	45	P	
75	**As**	2	**4.398**	ug/l	43.98	5.1	4500	74	P	
78	**Se**	2	**-0.044**	ug/l	-0.44	912.4	4500	74	P	
88	**Sr**	3	**403.100**	ug/l	4,031.00	2.0	4500	74	A	
95	**Mo**	3	**0.382**	ug/l	3.82	5.1	4500	74	P	
107	**Ag**	3	**0.034**	ug/l	0.34	32.5	450	103	P	
111	**Cd**	3	**0.204**	ug/l	2.04	21.8	900	103	P	
118	**Sn**	3	**2.690**	ug/l	26.90	3.1	4500	103	P	
121	**Sb**	3	**0.962**	ug/l	9.62	1.2	4500	103	P	
135	**Ba**	3	**261.000**	ug/l	2,610.00	0.5	4500	103	P	
200	**Hg**	3	**63.080**	ug/l	630.80	0.5	45	209	P	Fail
205	**Tl**	3	**0.322**	ug/l	3.22	1.2	4500	209	P	
208	**Pb**	3	**17.590**	ug/l	175.90	1.0	4500	209	P	
238	**U**	3	**0.290**	ug/l	2.90	0.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3925182	1.37	5119000	**76.7**	30	-	120	
45	Sc	1	156985	0.35	341400	**46.0**	30	-	120	
45	Sc	2	243285	0.48	273900	**88.8**	30	-	120	
74	Ge	1	117364	0.67	283600	**41.4**	30	-	120	
74	Ge	2	357228	0.82	422600	**84.5**	30	-	120	
74	Ge	3	1491792	1.26	1674000	**89.1**	30	-	120	
103	Rh	2	663056	0.69	814900	**81.4**	30	-	120	
103	Rh	3	1329632	0.21	1535000	**86.6**	30	-	120	
165	Ho	3	2971859	1.21	3236000	**91.8**	30	-	120	
175	Lu	3	3247560	0.82	3584000	**90.6**	30	-	120	
209	Bi	3	6451778	0.49	7619000	**84.7**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\171SMPL.D\171SMPL.D#
Date Acquired: May 28 2010 08:32 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-9-B Vial Number: 4410
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.032**	ug/l	10.32	0.8	450	6	P	
23	**Na**	2	**181.600**	ug/l	1,816.00	0.8	450000	45	P	
24	**Mg**	2	**111300.000**	ug/l	1,113,000.00	1.3	450000	45	A	
27	**Al**	2	**41200.000**	ug/l	412,000.00	1.6	450000	45	A	
31	**P**	2	**621.300**	ug/l	6,213.00	4.3	450000	45	P	
39	**K**	2	**2378.000**	ug/l	23,780.00	2.1	450000	45	A	
44	**Ca**	2	**34290.000**	ug/l	342,900.00	0.9	450000	45	P	
47	**Ti**	2	**198.600**	ug/l	1,986.00	0.6	4500	45	P	
51	**V**	2	**126.600**	ug/l	1,266.00	0.7	4500	45	P	
52	**Cr**	2	**703.000**	ug/l	7,030.00	0.8	4500	45	A	
54	**Fe**	2	**86330.000**	ug/l	863,300.00	1.6	450000	74	A	
55	**Mn**	2	**1360.000**	ug/l	13,600.00	0.5	15000	45	A	
59	**Co**	2	**81.370**	ug/l	813.70	0.7	4500	45	P	
60	**Ni**	2	**1331.000**	ug/l	13,310.00	1.2	15000	45	A	
63	**Cu**	2	**59.450**	ug/l	594.50	1.9	15000	45	P	
66	**Zn**	2	**131.500**	ug/l	1,315.00	0.7	15000	45	P	
75	**As**	2	**12.260**	ug/l	122.60	3.0	4500	74	P	
78	**Se**	2	**0.277**	ug/l	2.77	283.2	4500	74	P	
88	**Sr**	3	**289.100**	ug/l	2,891.00	0.8	4500	74	A	
95	**Mo**	3	**1.121**	ug/l	11.21	6.0	4500	74	P	
107	**Ag**	3	**0.132**	ug/l	1.32	9.4	450	103	P	
111	**Cd**	3	**0.259**	ug/l	2.59	9.0	900	103	P	
118	**Sn**	3	**1.727**	ug/l	17.27	6.9	4500	103	P	
121	**Sb**	3	**1.446**	ug/l	14.46	4.0	4500	103	P	
135	**Ba**	3	**652.100**	ug/l	6,521.00	2.6	4500	103	P	
200	**Hg**	3	**15.620**	ug/l	156.20	1.4	45	209	P	
205	**Tl**	3	**0.405**	ug/l	4.05	2.7	4500	209	P	
208	**Pb**	3	**16.360**	ug/l	163.60	0.7	4500	209	P	
238	**U**	3	**0.588**	ug/l	5.88	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3917679	1.90	5119000	**76.5**	30	-	120	
45	Sc	1	162252	1.43	341400	**47.5**	30	-	120	
45	Sc	2	263240	0.85	273900	**96.1**	30	-	120	
74	Ge	1	118325	0.85	283600	**41.7**	30	-	120	
74	Ge	2	371908	1.08	422600	**88.0**	30	-	120	
74	Ge	3	1541195	0.91	1674000	**92.1**	30	-	120	
103	Rh	2	687533	0.70	814900	**84.4**	30	-	120	
103	Rh	3	1380082	1.84	1535000	**89.9**	30	-	120	
165	Ho	3	3061996	0.29	3236000	**94.6**	30	-	120	
175	Lu	3	3376003	0.97	3584000	**94.2**	30	-	120	
209	Bi	3	6635069	0.28	7619000	**87.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\172SMPL.D\172SMPL.D#
Date Acquired: May 28 2010 08:39 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**51.930**	ug/l	51.93	1.2	450	6	P	
23	**Na**	2	**5004.000**	ug/l	5,004.00	3.2	450000	45	A	
24	**Mg**	2	**5162.000**	ug/l	5,162.00	1.4	450000	45	A	
27	**Al**	2	**504.900**	ug/l	504.90	1.8	450000	45	P	
31	**P**	2	**4947.000**	ug/l	4,947.00	2.4	450000	45	P	
39	**K**	2	**5195.000**	ug/l	5,195.00	1.7	450000	45	A	
44	**Ca**	2	**5223.000**	ug/l	5,223.00	2.0	450000	45	P	
47	**Ti**	2	**52.870**	ug/l	52.87	2.9	4500	45	P	
51	**V**	2	**53.390**	ug/l	53.39	1.1	4500	45	P	
52	**Cr**	2	**54.070**	ug/l	54.07	1.8	4500	45	P	
54	**Fe**	2	**5233.000**	ug/l	5,233.00	0.4	450000	74	P	
55	**Mn**	2	**53.990**	ug/l	53.99	0.9	15000	45	P	
59	**Co**	2	**54.840**	ug/l	54.84	1.0	4500	45	P	
60	**Ni**	2	**55.400**	ug/l	55.40	3.8	15000	45	P	
63	**Cu**	2	**56.070**	ug/l	56.07	0.4	15000	45	P	
66	**Zn**	2	**54.840**	ug/l	54.84	2.9	15000	45	P	
75	**As**	2	**51.710**	ug/l	51.71	0.6	4500	74	P	
78	**Se**	2	**51.780**	ug/l	51.78	4.5	4500	74	P	
88	**Sr**	3	**52.840**	ug/l	52.84	0.4	4500	74	P	
95	**Mo**	3	**53.070**	ug/l	53.07	2.6	4500	74	P	
107	**Ag**	3	**51.670**	ug/l	51.67	0.3	450	103	P	
111	**Cd**	3	**51.130**	ug/l	51.13	1.4	900	103	P	
118	**Sn**	3	**51.600**	ug/l	51.60	1.1	4500	103	P	
121	**Sb**	3	**51.490**	ug/l	51.49	0.8	4500	103	P	
135	**Ba**	3	**52.470**	ug/l	52.47	0.8	4500	103	P	
200	**Hg**	3	**9.563**	ug/l	9.56	0.9	45	209	P	
205	**Tl**	3	**52.440**	ug/l	52.44	1.4	4500	209	P	
208	**Pb**	3	**53.310**	ug/l	53.31	1.2	4500	209	P	
238	**U**	3	**52.470**	ug/l	52.47	0.5	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4136939	0.58	5119000	**80.8**	30	-	120	
45	Sc	1	153345	1.29	341400	**44.9**	30	-	120	
45	Sc	2	233780	1.25	273900	**85.4**	30	-	120	
74	Ge	1	129268	0.95	283600	**45.6**	30	-	120	
74	Ge	2	384148	0.75	422600	**90.9**	30	-	120	
74	Ge	3	1634266	0.80	1674000	**97.6**	30	-	120	
103	Rh	2	739694	0.99	814900	**90.8**	30	-	120	
103	Rh	3	1478270	1.85	1535000	**96.3**	30	-	120	
165	Ho	3	3157693	0.85	3236000	**97.6**	30	-	120	
175	Lu	3	3479251	0.85	3584000	**97.1**	30	-	120	
209	Bi	3	7212707	0.53	7619000	**94.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\173SMPL.D\173SMPL.D#
Date Acquired: May 28 2010 08:46 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.018**	ug/l	0.02	24.6	450	6	P	
23	**Na**	2	**-12.140**	ug/l	-12.14	11.6	450000	45	P	
24	**Mg**	2	**7.729**	ug/l	7.73	8.5	450000	45	P	
27	**Al**	2	**1.762**	ug/l	1.76	13.9	450000	45	P	
31	**P**	2	**-8.212**	ug/l	-8.21	49.3	450000	45	P	
39	**K**	2	**-5.435**	ug/l	-5.44	75.7	450000	45	P	
44	**Ca**	2	**4.150**	ug/l	4.15	31.9	450000	45	P	
47	**Ti**	2	**0.054**	ug/l	0.05	62.6	4500	45	P	
51	**V**	2	**-0.134**	ug/l	-0.13	7.4	4500	45	P	
52	**Cr**	2	**0.019**	ug/l	0.02	129.6	4500	45	P	
54	**Fe**	2	**4.876**	ug/l	4.88	3.6	450000	74	P	
55	**Mn**	2	**0.085**	ug/l	0.09	15.6	15000	45	P	
59	**Co**	2	**0.021**	ug/l	0.02	1.6	4500	45	P	
60	**Ni**	2	**0.058**	ug/l	0.06	99.7	15000	45	P	
63	**Cu**	2	**0.024**	ug/l	0.02	40.9	15000	45	P	
66	**Zn**	2	**0.180**	ug/l	0.18	10.6	15000	45	P	
75	**As**	2	**-0.086**	ug/l	-0.09	22.0	4500	74	P	
78	**Se**	2	**-0.430**	ug/l	-0.43	86.9	4500	74	P	
88	**Sr**	3	**0.020**	ug/l	0.02	19.4	4500	74	P	
95	**Mo**	3	**0.020**	ug/l	0.02	16.0	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.01	56.2	450	103	P	
111	**Cd**	3	**0.020**	ug/l	0.02	85.0	900	103	P	
118	**Sn**	3	**0.044**	ug/l	0.04	37.3	4500	103	P	
121	**Sb**	3	**0.023**	ug/l	0.02	54.3	4500	103	P	
135	**Ba**	3	**0.020**	ug/l	0.02	54.5	4500	103	P	
200	**Hg**	3	**6.459**	ug/l	6.46	2.3	45	209	P	
205	**Tl**	3	**0.383**	ug/l	0.38	6.9	4500	209	P	
208	**Pb**	3	**0.021**	ug/l	0.02	5.0	4500	209	P	
238	**U**	3	**0.013**	ug/l	0.01	17.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4208331	1.83	5119000	**82.2**	30	-	120	
45	Sc	1	147054	1.88	341400	**43.1**	30	-	120	
45	Sc	2	240102	0.77	273900	**87.7**	30	-	120	
74	Ge	1	125423	0.60	283600	**44.2**	30	-	120	
74	Ge	2	394301	1.43	422600	**93.3**	30	-	120	
74	Ge	3	1603236	0.85	1674000	**95.8**	30	-	120	
103	Rh	2	769707	0.99	814900	**94.5**	30	-	120	
103	Rh	3	1490579	0.96	1535000	**97.1**	30	-	120	
165	Ho	3	3124457	0.99	3236000	**96.6**	30	-	120	
175	Lu	3	3466781	1.59	3584000	**96.7**	30	-	120	
209	Bi	3	7397250	1.23	7619000	**97.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\174SMPL.D\174SMPL.D#
Date Acquired: May 28 2010 08:53 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-10-B Vial Number: 4501
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.846**	ug/l	0.85	0.7	450	6	P	
23	**Na**	2	**108.600**	ug/l	108.60	22.4	450000	45	P	
24	**Mg**	2	**35530.000**	ug/l	35,530.00	0.8	450000	45	A	
27	**Al**	2	**27090.000**	ug/l	27,090.00	1.2	450000	45	A	
31	**P**	2	**965.200**	ug/l	965.20	1.0	450000	45	P	
39	**K**	2	**2474.000**	ug/l	2,474.00	1.1	450000	45	A	
44	**Ca**	2	**7561.000**	ug/l	7,561.00	1.3	450000	45	P	
47	**Ti**	2	**538.600**	ug/l	538.60	0.3	4500	45	P	
51	**V**	2	**80.080**	ug/l	80.08	0.9	4500	45	P	
52	**Cr**	2	**315.800**	ug/l	315.80	0.5	4500	45	P	
54	**Fe**	2	**59660.000**	ug/l	59,660.00	0.5	450000	74	A	
55	**Mn**	2	**1165.000**	ug/l	1,165.00	1.5	15000	45	A	
59	**Co**	2	**53.420**	ug/l	53.42	0.3	4500	45	P	
60	**Ni**	2	**586.500**	ug/l	586.50	0.6	15000	45	P	
63	**Cu**	2	**53.560**	ug/l	53.56	0.6	15000	45	P	
66	**Zn**	2	**151.200**	ug/l	151.20	1.6	15000	45	P	
75	**As**	2	**10.580**	ug/l	10.58	0.2	4500	74	P	
78	**Se**	2	**0.228**	ug/l	0.23	104.6	4500	74	P	
88	**Sr**	3	**71.590**	ug/l	71.59	0.7	4500	74	P	
95	**Mo**	3	**0.995**	ug/l	1.00	8.5	4500	74	P	
107	**Ag**	3	**0.107**	ug/l	0.11	26.7	450	103	P	
111	**Cd**	3	**0.308**	ug/l	0.31	9.9	900	103	P	
118	**Sn**	3	**1.136**	ug/l	1.14	6.1	4500	103	P	
121	**Sb**	3	**0.974**	ug/l	0.97	4.9	4500	103	P	
135	**Ba**	3	**388.700**	ug/l	388.70	1.3	4500	103	P	
200	**Hg**	3	**68.750**	ug/l	68.75	0.9	45	209	P	Fail
205	**Tl**	3	**0.370**	ug/l	0.37	1.1	4500	209	P	
208	**Pb**	3	**21.500**	ug/l	21.50	1.0	4500	209	P	
238	**U**	3	**0.352**	ug/l	0.35	2.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4155766	0.87	5119000	**81.2**	30	-	120	
45	Sc	1	143635	0.45	341400	**42.1**	30	-	120	
45	Sc	2	256377	1.12	273900	**93.6**	30	-	120	
74	Ge	1	111986	0.68	283600	**39.5**	30	-	120	
74	Ge	2	388258	1.05	422600	**91.9**	30	-	120	
74	Ge	3	1606547	0.74	1674000	**96.0**	30	-	120	
103	Rh	2	722605	1.19	814900	**88.7**	30	-	120	
103	Rh	3	1429041	1.61	1535000	**93.1**	30	-	120	
165	Ho	3	3111144	0.92	3236000	**96.1**	30	-	120	
175	Lu	3	3448388	1.81	3584000	**96.2**	30	-	120	
209	Bi	3	6917126	0.26	7619000	**90.8**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\175SMPL.D\175SMPL.D#
Date Acquired: May 28 2010 09:00 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-11-B Vial Number: 4502
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.900**	ug/l	0.90	6.1	450	6	P	
23	**Na**	2	**68.610**	ug/l	68.61	15.1	450000	45	P	
24	**Mg**	2	**106400.000**	ug/l	106,400.00	1.8	450000	45	A	
27	**Al**	2	**31440.000**	ug/l	31,440.00	1.4	450000	45	A	
31	**P**	2	**689.900**	ug/l	689.90	0.6	450000	45	P	
39	**K**	2	**1727.000**	ug/l	1,727.00	2.7	450000	45	P	
44	**Ca**	2	**6929.000**	ug/l	6,929.00	1.1	450000	45	P	
47	**Ti**	2	**505.800**	ug/l	505.80	2.5	4500	45	P	
51	**V**	2	**100.300**	ug/l	100.30	1.7	4500	45	P	
52	**Cr**	2	**741.000**	ug/l	741.00	1.7	4500	45	A	
54	**Fe**	2	**81490.000**	ug/l	81,490.00	1.3	450000	74	A	
55	**Mn**	2	**1484.000**	ug/l	1,484.00	1.8	15000	45	A	
59	**Co**	2	**107.200**	ug/l	107.20	1.7	4500	45	P	
60	**Ni**	2	**1517.000**	ug/l	1,517.00	1.0	15000	45	A	
63	**Cu**	2	**68.370**	ug/l	68.37	1.4	15000	45	P	
66	**Zn**	2	**135.400**	ug/l	135.40	3.0	15000	45	P	
75	**As**	2	**13.080**	ug/l	13.08	2.3	4500	74	P	
78	**Se**	2	**0.276**	ug/l	0.28	94.5	4500	74	P	
88	**Sr**	3	**82.830**	ug/l	82.83	0.4	4500	74	P	
95	**Mo**	3	**0.879**	ug/l	0.88	1.7	4500	74	P	
107	**Ag**	3	**0.158**	ug/l	0.16	16.3	450	103	P	
111	**Cd**	3	**0.319**	ug/l	0.32	8.8	900	103	P	
118	**Sn**	3	**1.943**	ug/l	1.94	3.7	4500	103	P	
121	**Sb**	3	**1.261**	ug/l	1.26	2.1	4500	103	P	
135	**Ba**	3	**313.400**	ug/l	313.40	0.8	4500	103	P	
200	**Hg**	3	**149.700**	ug/l	149.70	1.1	45	209	P	Fail
205	**Tl**	3	**0.333**	ug/l	0.33	2.6	4500	209	P	
208	**Pb**	3	**28.670**	ug/l	28.67	1.5	4500	209	P	
238	**U**	3	**0.548**	ug/l	0.55	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3855398	1.07	5119000	**75.3**	30	-	120	
45	Sc	1	145109	0.13	341400	**42.5**	30	-	120	
45	Sc	2	248589	1.62	273900	**90.8**	30	-	120	
74	Ge	1	111267	0.41	283600	**39.2**	30	-	120	
74	Ge	2	370753	1.42	422600	**87.7**	30	-	120	
74	Ge	3	1552590	0.30	1674000	**92.7**	30	-	120	
103	Rh	2	689289	1.23	814900	**84.6**	30	-	120	
103	Rh	3	1385354	0.81	1535000	**90.3**	30	-	120	
165	Ho	3	3101504	1.75	3236000	**95.8**	30	-	120	
175	Lu	3	3398121	0.92	3584000	**94.8**	30	-	120	
209	Bi	3	6674756	0.31	7619000	**87.6**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\176SMPL.D\176SMPL.D#
Date Acquired: May 28 2010 09:08 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-12-B Vial Number: 4503
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.689**	ug/l	0.69	3.3	450	6	P	
23	**Na**	2	**28.770**	ug/l	28.77	8.9	450000	45	P	
24	**Mg**	2	**105500.000**	ug/l	105,500.00	0.9	450000	45	A	
27	**Al**	2	**22340.000**	ug/l	22,340.00	1.5	450000	45	A	
31	**P**	2	**668.100**	ug/l	668.10	1.4	450000	45	P	
39	**K**	2	**1445.000**	ug/l	1,445.00	1.0	450000	45	P	
44	**Ca**	2	**3927.000**	ug/l	3,927.00	1.6	450000	45	P	
47	**Ti**	2	**409.300**	ug/l	409.30	0.3	4500	45	P	
51	**V**	2	**72.850**	ug/l	72.85	0.4	4500	45	P	
52	**Cr**	2	**648.500**	ug/l	648.50	1.1	4500	45	A	
54	**Fe**	2	**69230.000**	ug/l	69,230.00	0.3	450000	74	A	
55	**Mn**	2	**1138.000**	ug/l	1,138.00	0.2	15000	45	A	
59	**Co**	2	**79.900**	ug/l	79.90	0.4	4500	45	P	
60	**Ni**	2	**1222.000**	ug/l	1,222.00	1.7	15000	45	A	
63	**Cu**	2	**45.230**	ug/l	45.23	0.7	15000	45	P	
66	**Zn**	2	**132.800**	ug/l	132.80	0.9	15000	45	P	
75	**As**	2	**8.724**	ug/l	8.72	2.1	4500	74	P	
78	**Se**	2	**0.203**	ug/l	0.20	200.1	4500	74	P	
88	**Sr**	3	**22.070**	ug/l	22.07	0.8	4500	74	P	
95	**Mo**	3	**0.618**	ug/l	0.62	4.7	4500	74	P	
107	**Ag**	3	**0.068**	ug/l	0.07	22.3	450	103	P	
111	**Cd**	3	**0.220**	ug/l	0.22	15.5	900	103	P	
118	**Sn**	3	**1.511**	ug/l	1.51	4.5	4500	103	P	
121	**Sb**	3	**0.787**	ug/l	0.79	5.6	4500	103	P	
135	**Ba**	3	**197.400**	ug/l	197.40	1.9	4500	103	P	
200	**Hg**	3	**221.700**	ug/l	221.70	1.7	45	209	P	Fail
205	**Tl**	3	**0.179**	ug/l	0.18	3.0	4500	209	P	
208	**Pb**	3	**21.260**	ug/l	21.26	1.5	4500	209	P	
238	**U**	3	**0.288**	ug/l	0.29	3.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3859710	3.45	5119000	**75.4**	30	-	120	
45	Sc	1	136630	2.31	341400	**40.0**	30	-	120	
45	Sc	2	242822	1.15	273900	**88.7**	30	-	120	
74	Ge	1	104527	2.89	283600	**36.9**	30	-	120	
74	Ge	2	366560	1.01	422600	**86.7**	30	-	120	
74	Ge	3	1559610	0.92	1674000	**93.2**	30	-	120	
103	Rh	2	694750	1.81	814900	**85.3**	30	-	120	
103	Rh	3	1398105	1.68	1535000	**91.1**	30	-	120	
165	Ho	3	3097289	0.68	3236000	**95.7**	30	-	120	
175	Lu	3	3376974	1.03	3584000	**94.2**	30	-	120	
209	Bi	3	6738178	2.14	7619000	**88.4**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\177SMPL.D\177SMPL.D#
Date Acquired: May 28 2010 09:15 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-13-B Vial Number: 4504
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.017**	ug/l	0.02	23.7	450	6	P	
23	**Na**	2	**34.320**	ug/l	34.32	7.4	450000	45	P	
24	**Mg**	2	**394700.000**	ug/l	394,700.00	1.4	450000	45	A	
27	**Al**	2	**1459.000**	ug/l	1,459.00	0.4	450000	45	P	
31	**P**	2	**52.740**	ug/l	52.74	6.0	450000	45	P	
39	**K**	2	**58.660**	ug/l	58.66	8.1	450000	45	P	
44	**Ca**	2	**290.400**	ug/l	290.40	6.5	450000	45	P	
47	**Ti**	2	**16.540**	ug/l	16.54	2.6	4500	45	P	
51	**V**	2	**15.750**	ug/l	15.75	1.1	4500	45	P	
52	**Cr**	2	**784.600**	ug/l	784.60	1.7	4500	45	A	
54	**Fe**	2	**99470.000**	ug/l	99,470.00	0.9	450000	74	A	
55	**Mn**	2	**1562.000**	ug/l	1,562.00	0.9	15000	45	A	
59	**Co**	2	**201.300**	ug/l	201.30	0.2	4500	45	P	
60	**Ni**	2	**3866.000**	ug/l	3,866.00	0.5	15000	45	A	
63	**Cu**	2	**17.400**	ug/l	17.40	1.4	15000	45	P	
66	**Zn**	2	**46.530**	ug/l	46.53	1.3	15000	45	P	
75	**As**	2	**0.405**	ug/l	0.41	8.9	4500	74	P	
78	**Se**	2	**-0.116**	ug/l	-0.12	491.8	4500	74	P	
88	**Sr**	3	**1.859**	ug/l	1.86	1.4	4500	74	P	
95	**Mo**	3	**0.053**	ug/l	0.05	35.8	4500	74	P	
107	**Ag**	3	**0.006**	ug/l	0.01	71.1	450	103	P	
111	**Cd**	3	**0.030**	ug/l	0.03	61.4	900	103	P	
118	**Sn**	3	**0.140**	ug/l	0.14	12.6	4500	103	P	
121	**Sb**	3	**0.088**	ug/l	0.09	14.8	4500	103	P	
135	**Ba**	3	**8.876**	ug/l	8.88	5.3	4500	103	P	
200	**Hg**	3	**14.400**	ug/l	14.40	1.5	45	209	P	
205	**Tl**	3	**0.088**	ug/l	0.09	10.7	4500	209	P	
208	**Pb**	3	**4.998**	ug/l	5.00	0.8	4500	209	P	
238	**U**	3	**0.014**	ug/l	0.01	3.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3822408	0.63	5119000	**74.7**	30	-	120	
45	Sc	1	136148	0.89	341400	**39.9**	30	-	120	
45	Sc	2	233393	0.72	273900	**85.2**	30	-	120	
74	Ge	1	105309	2.21	283600	**37.1**	30	-	120	
74	Ge	2	349143	0.72	422600	**82.6**	30	-	120	
74	Ge	3	1463659	0.70	1674000	**87.4**	30	-	120	
103	Rh	2	641858	0.52	814900	**78.8**	30	-	120	
103	Rh	3	1302936	1.49	1535000	**84.9**	30	-	120	
165	Ho	3	2899267	0.84	3236000	**89.6**	30	-	120	
175	Lu	3	3228204	0.24	3584000	**90.1**	30	-	120	
209	Bi	3	6244323	0.94	7619000	**82.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\178SMPL.D\178SMPL.D#
Date Acquired: May 28 2010 09:22 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-14-B Vial Number: 4505
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.718**	ug/l	0.72	3.9	450	6	P	
23	**Na**	2	**32.040**	ug/l	32.04	6.3	450000	45	P	
24	**Mg**	2	**95950.000**	ug/l	95,950.00	1.5	450000	45	A	
27	**Al**	2	**9729.000**	ug/l	9,729.00	0.6	450000	45	A	
31	**P**	2	**376.500**	ug/l	376.50	6.9	450000	45	P	
39	**K**	2	**564.100**	ug/l	564.10	2.0	450000	45	P	
44	**Ca**	2	**1422.000**	ug/l	1,422.00	2.0	450000	45	P	
47	**Ti**	2	**125.300**	ug/l	125.30	1.0	4500	45	P	
51	**V**	2	**57.010**	ug/l	57.01	2.1	4500	45	P	
52	**Cr**	2	**972.600**	ug/l	972.60	1.6	4500	45	A	
54	**Fe**	2	**136800.000**	ug/l	136,800.00	0.3	450000	74	A	
55	**Mn**	2	**2102.000**	ug/l	2,102.00	1.0	15000	45	A	
59	**Co**	2	**264.600**	ug/l	264.60	1.2	4500	45	P	
60	**Ni**	2	**5143.000**	ug/l	5,143.00	1.4	15000	45	A	
63	**Cu**	2	**30.520**	ug/l	30.52	0.7	15000	45	P	
66	**Zn**	2	**92.810**	ug/l	92.81	0.4	15000	45	P	
75	**As**	2	**3.484**	ug/l	3.48	2.4	4500	74	P	
78	**Se**	2	**0.864**	ug/l	0.86	62.6	4500	74	P	
88	**Sr**	3	**10.270**	ug/l	10.27	2.0	4500	74	P	
95	**Mo**	3	**0.342**	ug/l	0.34	11.9	4500	74	P	
107	**Ag**	3	**0.043**	ug/l	0.04	17.7	450	103	P	
111	**Cd**	3	**0.432**	ug/l	0.43	8.0	900	103	P	
118	**Sn**	3	**0.608**	ug/l	0.61	9.0	4500	103	P	
121	**Sb**	3	**0.843**	ug/l	0.84	2.0	4500	103	P	
135	**Ba**	3	**179.100**	ug/l	179.10	1.6	4500	103	P	
200	**Hg**	3	**88.660**	ug/l	88.66	0.8	45	209	P	Fail
205	**Tl**	3	**0.533**	ug/l	0.53	1.5	4500	209	P	
208	**Pb**	3	**26.920**	ug/l	26.92	1.2	4500	209	P	
238	**U**	3	**0.216**	ug/l	0.22	1.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3622328	1.08	5119000	**70.8**	30	-	120	
45	Sc	1	126641	0.78	341400	**37.1**	30	-	120	
45	Sc	2	239995	1.12	273900	**87.6**	30	-	120	
74	Ge	1	93157	1.21	283600	**32.8**	30	-	120	
74	Ge	2	354186	0.70	422600	**83.8**	30	-	120	
74	Ge	3	1483047	1.06	1674000	**88.6**	30	-	120	
103	Rh	2	673434	1.34	814900	**82.6**	30	-	120	
103	Rh	3	1327100	2.24	1535000	**86.5**	30	-	120	
165	Ho	3	2982264	0.65	3236000	**92.2**	30	-	120	
175	Lu	3	3312827	1.15	3584000	**92.4**	30	-	120	
209	Bi	3	6574908	0.47	7619000	**86.3**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\179SMPL.D\179SMPL.D#
Date Acquired: May 28 2010 09:29 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-15-B Vial Number: 4506
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.759**	ug/l	0.76	5.9	450	6	P	
23	**Na**	2	**55.850**	ug/l	55.85	4.5	450000	45	P	
24	**Mg**	2	**83450.000**	ug/l	83,450.00	0.6	450000	45	A	
27	**Al**	2	**37540.000**	ug/l	37,540.00	0.5	450000	45	A	
31	**P**	2	**1042.000**	ug/l	1,042.00	5.1	450000	45	P	
39	**K**	2	**1715.000**	ug/l	1,715.00	0.9	450000	45	P	
44	**Ca**	2	**6665.000**	ug/l	6,665.00	0.5	450000	45	P	
47	**Ti**	2	**1019.000**	ug/l	1,019.00	0.5	4500	45	P	
51	**V**	2	**101.300**	ug/l	101.30	0.6	4500	45	P	
52	**Cr**	2	**595.900**	ug/l	595.90	0.9	4500	45	A	
54	**Fe**	2	**84600.000**	ug/l	84,600.00	0.8	450000	74	A	
55	**Mn**	2	**1893.000**	ug/l	1,893.00	0.2	15000	45	A	
59	**Co**	2	**74.010**	ug/l	74.01	0.4	4500	45	P	
60	**Ni**	2	**899.800**	ug/l	899.80	0.4	15000	45	P	
63	**Cu**	2	**87.260**	ug/l	87.26	0.4	15000	45	P	
66	**Zn**	2	**152.800**	ug/l	152.80	1.3	15000	45	P	
75	**As**	2	**15.480**	ug/l	15.48	1.7	4500	74	P	
78	**Se**	2	**0.674**	ug/l	0.67	121.3	4500	74	P	
88	**Sr**	3	**33.660**	ug/l	33.66	0.2	4500	74	P	
95	**Mo**	3	**1.378**	ug/l	1.38	7.1	4500	74	P	
107	**Ag**	3	**0.136**	ug/l	0.14	3.0	450	103	P	
111	**Cd**	3	**0.358**	ug/l	0.36	3.9	900	103	P	
118	**Sn**	3	**0.552**	ug/l	0.55	7.0	4500	103	P	
121	**Sb**	3	**1.008**	ug/l	1.01	3.0	4500	103	P	
135	**Ba**	3	**361.900**	ug/l	361.90	0.7	4500	103	P	
200	**Hg**	3	**20.090**	ug/l	20.09	0.5	45	209	P	
205	**Tl**	3	**0.173**	ug/l	0.17	3.7	4500	209	P	
208	**Pb**	3	**26.690**	ug/l	26.69	0.2	4500	209	P	
238	**U**	3	**0.385**	ug/l	0.39	2.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3866873	0.71	5119000	**75.5**	30	-	120	
45	Sc	1	132702	2.34	341400	**38.9**	30	-	120	
45	Sc	2	235722	0.16	273900	**86.1**	30	-	120	
74	Ge	1	104563	1.60	283600	**36.9**	30	-	120	
74	Ge	2	356761	0.63	422600	**84.4**	30	-	120	
74	Ge	3	1531676	1.41	1674000	**91.5**	30	-	120	
103	Rh	2	676401	0.94	814900	**83.0**	30	-	120	
103	Rh	3	1391240	0.60	1535000	**90.6**	30	-	120	
165	Ho	3	3050217	0.51	3236000	**94.3**	30	-	120	
175	Lu	3	3385704	0.92	3584000	**94.5**	30	-	120	
209	Bi	3	6711011	0.38	7619000	**88.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\180SMPL.D\180SMPL.D#
Date Acquired: May 28 2010 09:36 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**50.800**	ug/l	50.80	0.2	450	6	P	
23	**Na**	2	**4995.000**	ug/l	4,995.00	1.3	450000	45	A	
24	**Mg**	2	**4982.000**	ug/l	4,982.00	1.3	450000	45	A	
27	**Al**	2	**493.600**	ug/l	493.60	0.6	450000	45	P	
31	**P**	2	**4743.000**	ug/l	4,743.00	0.6	450000	45	P	
39	**K**	2	**5170.000**	ug/l	5,170.00	0.7	450000	45	A	
44	**Ca**	2	**5172.000**	ug/l	5,172.00	0.9	450000	45	P	
47	**Ti**	2	**52.610**	ug/l	52.61	1.9	4500	45	P	
51	**V**	2	**52.740**	ug/l	52.74	1.6	4500	45	P	
52	**Cr**	2	**53.100**	ug/l	53.10	1.2	4500	45	P	
54	**Fe**	2	**5180.000**	ug/l	5,180.00	1.0	450000	74	P	
55	**Mn**	2	**53.710**	ug/l	53.71	0.9	15000	45	P	
59	**Co**	2	**54.520**	ug/l	54.52	0.7	4500	45	P	
60	**Ni**	2	**55.880**	ug/l	55.88	1.9	15000	45	P	
63	**Cu**	2	**55.810**	ug/l	55.81	1.3	15000	45	P	
66	**Zn**	2	**56.220**	ug/l	56.22	1.6	15000	45	P	
75	**As**	2	**51.540**	ug/l	51.54	0.6	4500	74	P	
78	**Se**	2	**49.320**	ug/l	49.32	2.5	4500	74	P	
88	**Sr**	3	**53.760**	ug/l	53.76	1.6	4500	74	P	
95	**Mo**	3	**53.220**	ug/l	53.22	0.6	4500	74	P	
107	**Ag**	3	**52.040**	ug/l	52.04	1.6	450	103	P	
111	**Cd**	3	**51.990**	ug/l	51.99	1.6	900	103	P	
118	**Sn**	3	**52.760**	ug/l	52.76	0.5	4500	103	P	
121	**Sb**	3	**52.440**	ug/l	52.44	0.4	4500	103	P	
135	**Ba**	3	**54.040**	ug/l	54.04	1.0	4500	103	P	
200	**Hg**	3	**7.637**	ug/l	7.64	1.5	45	209	P	
205	**Tl**	3	**51.840**	ug/l	51.84	1.2	4500	209	P	
208	**Pb**	3	**52.950**	ug/l	52.95	1.1	4500	209	P	
238	**U**	3	**52.690**	ug/l	52.69	0.7	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3896397	0.92	5119000	**76.1**	30	-	120	
45	Sc	1	137949	2.11	341400	**40.4**	30	-	120	
45	Sc	2	215826	1.11	273900	**78.8**	30	-	120	
74	Ge	1	115656	0.91	283600	**40.8**	30	-	120	
74	Ge	2	355226	1.35	422600	**84.1**	30	-	120	
74	Ge	3	1511883	1.63	1674000	**90.3**	30	-	120	
103	Rh	2	691815	1.75	814900	**84.9**	30	-	120	
103	Rh	3	1381451	0.68	1535000	**90.0**	30	-	120	
165	Ho	3	3013627	1.31	3236000	**93.1**	30	-	120	
175	Lu	3	3332025	1.10	3584000	**93.0**	30	-	120	
209	Bi	3	7084010	0.53	7619000	**93.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\181SMPL.D\181SMPL.D#
Date Acquired: May 28 2010 09:43 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.013**	ug/l	0.01	27.5	450	6	P	
23	**Na**	2	**-6.599**	ug/l	-6.60	0.6	450000	45	P	
24	**Mg**	2	**6.903**	ug/l	6.90	10.2	450000	45	P	
27	**Al**	2	**1.539**	ug/l	1.54	16.0	450000	45	P	
31	**P**	2	**-4.851**	ug/l	-4.85	89.5	450000	45	P	
39	**K**	2	**8.177**	ug/l	8.18	55.2	450000	45	P	
44	**Ca**	2	**1.091**	ug/l	1.09	112.4	450000	45	P	
47	**Ti**	2	**0.084**	ug/l	0.08	48.9	4500	45	P	
51	**V**	2	**-0.133**	ug/l	-0.13	11.3	4500	45	P	
52	**Cr**	2	**0.072**	ug/l	0.07	63.0	4500	45	P	
54	**Fe**	2	**4.556**	ug/l	4.56	5.4	450000	74	P	
55	**Mn**	2	**0.254**	ug/l	0.25	6.4	15000	45	P	
59	**Co**	2	**0.024**	ug/l	0.02	9.3	4500	45	P	
60	**Ni**	2	**0.094**	ug/l	0.09	42.8	15000	45	P	
63	**Cu**	2	**0.026**	ug/l	0.03	120.6	15000	45	P	
66	**Zn**	2	**0.231**	ug/l	0.23	27.3	15000	45	P	
75	**As**	2	**-0.055**	ug/l	-0.05	49.7	4500	74	P	
78	**Se**	2	**-0.059**	ug/l	-0.06	1016.0	4500	74	P	
88	**Sr**	3	**0.012**	ug/l	0.01	66.7	4500	74	P	
95	**Mo**	3	**0.018**	ug/l	0.02	10.8	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.00	74.9	450	103	P	
111	**Cd**	3	**0.002**	ug/l	0.00	141.8	900	103	P	
118	**Sn**	3	**0.030**	ug/l	0.03	40.0	4500	103	P	
121	**Sb**	3	**0.017**	ug/l	0.02	32.3	4500	103	P	
135	**Ba**	3	**0.020**	ug/l	0.02	96.3	4500	103	P	
200	**Hg**	3	**4.284**	ug/l	4.28	2.1	45	209	P	
205	**Tl**	3	**0.389**	ug/l	0.39	9.5	4500	209	P	
208	**Pb**	3	**0.020**	ug/l	0.02	14.3	4500	209	P	
238	**U**	3	**0.007**	ug/l	0.01	19.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3757771	0.11	5119000	**73.4**	30	-	120	
45	Sc	1	145020	2.24	341400	**42.5**	30	-	120	
45	Sc	2	218129	0.90	273900	**79.6**	30	-	120	
74	Ge	1	125244	2.19	283600	**44.2**	30	-	120	
74	Ge	2	367777	0.85	422600	**87.0**	30	-	120	
74	Ge	3	1476464	1.07	1674000	**88.2**	30	-	120	
103	Rh	2	722418	1.09	814900	**88.7**	30	-	120	
103	Rh	3	1394308	1.17	1535000	**90.8**	30	-	120	
165	Ho	3	2966178	1.07	3236000	**91.7**	30	-	120	
175	Lu	3	3333346	1.16	3584000	**93.0**	30	-	120	
209	Bi	3	7194909	0.31	7619000	**94.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\182SMPL.D\182SMPL.D#
Date Acquired: May 28 2010 09:50 am Acq. Method: 0NEW_ALL.M
Sample Name: ICSA Vial Number: 1101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.009**	ug/l	0.01	33.0	450	6	P	
23	**Na**	2	**238100.000**	ug/l	238,100.00	1.7	450000	45	A	
24	**Mg**	2	**93380.000**	ug/l	93,380.00	0.3	450000	45	A	
27	**Al**	2	**89830.000**	ug/l	89,830.00	1.2	450000	45	A	
31	**P**	2	**98640.000**	ug/l	98,640.00	0.4	450000	45	A	
39	**K**	2	**99380.000**	ug/l	99,380.00	1.6	450000	45	A	
44	**Ca**	2	**293000.000**	ug/l	293,000.00	0.2	450000	45	A	
47	**Ti**	2	**2083.000**	ug/l	2,083.00	0.6	4500	45	P	
51	**V**	2	**-0.061**	ug/l	-0.06	81.0	4500	45	P	
52	**Cr**	2	**1.151**	ug/l	1.15	8.7	4500	45	P	
54	**Fe**	2	**233400.000**	ug/l	233,400.00	1.3	450000	74	A	
55	**Mn**	2	**5.719**	ug/l	5.72	2.5	15000	45	P	
59	**Co**	2	**3.857**	ug/l	3.86	2.4	4500	45	P	
60	**Ni**	2	**2.897**	ug/l	2.90	10.5	15000	45	P	
63	**Cu**	2	**3.873**	ug/l	3.87	2.1	15000	45	P	
66	**Zn**	2	**3.583**	ug/l	3.58	8.9	15000	45	P	
75	**As**	2	**0.414**	ug/l	0.41	7.7	4500	74	P	
78	**Se**	2	**-0.295**	ug/l	-0.29	142.3	4500	74	P	
88	**Sr**	3	**18.410**	ug/l	18.41	2.4	4500	74	P	
95	**Mo**	3	**2179.000**	ug/l	2,179.00	0.4	4500	74	A	
107	**Ag**	3	**0.202**	ug/l	0.20	4.1	450	103	P	
111	**Cd**	3	**0.189**	ug/l	0.19	48.9	900	103	P	
118	**Sn**	3	**0.133**	ug/l	0.13	16.8	4500	103	P	
121	**Sb**	3	**0.726**	ug/l	0.73	4.9	4500	103	P	
135	**Ba**	3	**0.483**	ug/l	0.48	7.4	4500	103	P	
200	**Hg**	3	**3.891**	ug/l	3.89	1.7	45	209	P	
205	**Tl**	3	**0.171**	ug/l	0.17	7.9	4500	209	P	
208	**Pb**	3	**0.287**	ug/l	0.29	3.8	4500	209	P	
238	**U**	3	**0.002**	ug/l	0.00	27.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3292854	1.69	5119000	**64.3**	30	-	120	
45	Sc	1	132911	0.76	341400	**38.9**	30	-	120	
45	Sc	2	216683	0.40	273900	**79.1**	30	-	120	
74	Ge	1	109168	1.89	283600	**38.5**	30	-	120	
74	Ge	2	343804	1.88	422600	**81.4**	30	-	120	
74	Ge	3	1433327	1.09	1674000	**85.6**	30	-	120	
103	Rh	2	595116	1.76	814900	**73.0**	30	-	120	
103	Rh	3	1258215	0.55	1535000	**82.0**	30	-	120	
165	Ho	3	2847099	0.92	3236000	**88.0**	30	-	120	
175	Lu	3	3139980	0.47	3584000	**87.6**	30	-	120	
209	Bi	3	5951602	0.55	7619000	**78.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\183SMPL.D\183SMPL.D#
Date Acquired: May 28 2010 09:58 am Acq. Method: 0NEW_ALL.M
Sample Name: ICSAB Vial Number: 1102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.00	75.6	450	6	P	
23	**Na**	2	**242800.000**	ug/l	242,800.00	0.7	450000	45	A	
24	**Mg**	2	**95850.000**	ug/l	95,850.00	0.6	450000	45	A	
27	**Al**	2	**91890.000**	ug/l	91,890.00	0.6	450000	45	A	
31	**P**	2	**101100.000**	ug/l	101,100.00	0.5	450000	45	A	
39	**K**	2	**101000.000**	ug/l	101,000.00	1.0	450000	45	A	
44	**Ca**	2	**297900.000**	ug/l	297,900.00	0.5	450000	45	A	
47	**Ti**	2	**2081.000**	ug/l	2,081.00	0.9	4500	45	P	
51	**V**	2	**217.700**	ug/l	217.70	1.0	4500	45	P	
52	**Cr**	2	**210.300**	ug/l	210.30	1.0	4500	45	P	
54	**Fe**	2	**234500.000**	ug/l	234,500.00	1.0	450000	74	A	
55	**Mn**	2	**212.400**	ug/l	212.40	1.6	15000	45	P	
59	**Co**	2	**214.000**	ug/l	214.00	1.1	4500	45	P	
60	**Ni**	2	**210.400**	ug/l	210.40	1.2	15000	45	P	
63	**Cu**	2	**205.700**	ug/l	205.70	2.1	15000	45	P	
66	**Zn**	2	**105.100**	ug/l	105.10	0.8	15000	45	P	
75	**As**	2	**112.200**	ug/l	112.20	0.4	4500	74	P	
78	**Se**	2	**111.400**	ug/l	111.40	4.3	4500	74	P	
88	**Sr**	3	**17.890**	ug/l	17.89	0.7	4500	74	P	
95	**Mo**	3	**2128.000**	ug/l	2,128.00	1.1	4500	74	A	
107	**Ag**	3	**52.600**	ug/l	52.60	1.2	450	103	P	
111	**Cd**	3	**108.000**	ug/l	108.00	1.1	900	103	P	
118	**Sn**	3	**0.131**	ug/l	0.13	20.0	4500	103	P	
121	**Sb**	3	**0.763**	ug/l	0.76	2.0	4500	103	P	
135	**Ba**	3	**0.457**	ug/l	0.46	9.2	4500	103	P	
200	**Hg**	3	**3.829**	ug/l	3.83	2.1	45	209	P	
205	**Tl**	3	**0.106**	ug/l	0.11	8.8	4500	209	P	
208	**Pb**	3	**0.297**	ug/l	0.30	1.5	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.00	50.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3283780	1.11	5119000	**64.1**	30	-	120	
45	Sc	1	130570	1.11	341400	**38.2**	30	-	120	
45	Sc	2	208064	0.25	273900	**76.0**	30	-	120	
74	Ge	1	104915	0.85	283600	**37.0**	30	-	120	
74	Ge	2	332880	0.50	422600	**78.8**	30	-	120	
74	Ge	3	1437990	0.38	1674000	**85.9**	30	-	120	
103	Rh	2	583699	0.21	814900	**71.6**	30	-	120	
103	Rh	3	1234601	0.90	1535000	**80.4**	30	-	120	
165	Ho	3	2829865	0.52	3236000	**87.4**	30	-	120	
175	Lu	3	3119890	0.90	3584000	**87.1**	30	-	120	
209	Bi	3	5925353	0.29	7619000	**77.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

Step	Mass	Element	r	b(blank)		DL	BEC	Unit	
3	6	Li	0.0000	---	---	---	ug/l		
3	7	Li	0.0000	---	---	---	ug/l		
3	9	Be	1.0000	2.192E-04		2.251E-03		4.174E-03	ug/l
1	45	Sc	0.0000	---	---	---	ug/l		
2	45	Sc	0.0000	---	---	---	ug/l		
2	60	Ni	0.9999	2.488E-02		4.228E-02		1.137E-01	ug/l
2	63	Cu	0.9999	1.986E-02		8.145E-02		3.517E-02	ug/l
2	66	Zn	0.9998	2.602E-02		1.966E-01		2.079E-01	ug/l
1	74	Ge	0.0000	---	---	---	ug/l		
2	74	Ge	0.0000	---	---	---	ug/l		
3	74	Ge	0.0000	---	---	---	ug/l		
2	78	Se	1.0000	3.809E-03		1.038	7.566E-01		ug/l
2	103	Rh	0.0000	---	---	---	ug/l		
3	103	Rh	0.0000	---	---	---	ug/l		
3	165	Ho	0.0000	---	---	---	ug/l		
3	175	Lu	0.0000	---	---	---	ug/l		
3	209	Bi	0.0000	---	---	---	ug/l		

TA Seattle/Tacoma Calibration Blank QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#
Date Acquired: May 28 2010 11:15 am Acq. Method: 0NEW_ALL.M
Sample Name: STD0 Vial Number: 1306
Misc Info:
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : ---

Tune #	Name
1	c:\icpchem\1\7500\h2.u
2	c:\icpchem\1\7500\he.u
3	c:\icpchem\1\7500\nogas.u

Sample Type: CalBlk

QC&ISTD Elements

Element		Tune	CPS Mean		SD	RSD(%)
6	Li	3	6852024.0	A	103400.00	1.51
7	Li	3	1044539.0	A	25000.00	2.39
9	Be	3	30.0	P	5.00	16.67
23	Na	2		P		
24	Mg	2		P		
25	Mg	2		P		
26	Mg	2		P		
27	Al	2		P		
31	P	2		P		
39	K	2		P		
40	Ca	1		P		
44	Ca	2		P		
45	Sc	1	249047.2	P	4390.00	1.76
45	Sc	2	274924.8	P	4162.00	1.51
45	Sc	3		A		
47	Ti	2		P		
50	V	2		P		
51	V	2		P		
52	Cr	2		P		
53	Cr	2		P		
54	Fe	1		P		
54	Fe	2		P		
55	Mn	2		P		
56	Fe	1		P		
59	Co	2		P		
60	Ni	2	136.7	P	15.28	11.18
61	Ni	2		P		
63	Cu	2	110.0	P	86.61	78.73
65	Cu	2		P		
66	Zn	2	143.3	P	46.19	32.22
67	Zn	2		P		
68	Zn	2		P		
74	Ge	1	197537.8	P	4495.00	2.28
74	Ge	2	437523.8	P	972.60	0.22
74	Ge	3	1769404.0	A	15140.00	0.86
75	As	2		P		
78	Se	1		P		
78	Se	2	33.3	P	15.28	45.84
88	Sr	2		P		
88	Sr	3		P		
95	Mo	3		P		
98	Mo	3		P		
99	(Mo)	3		P		
103	Rh	2	847182.7	P	8496.00	1.00
103	Rh	3	1573930.0	A	13470.00	0.86
106	(Cd)	3		P		
107	Ag	3		P		
108	(Cd)	3		P		
109	Ag	3		P		
111	Cd	3		P		
114	Cd	3		P		
118	Sn	2		P		
118	Sn	3		P		
120	Sn	3		P		
121	Sb	3		P		
123	Sb	3		P		
135	Ba	3		P		
137	Ba	3		P		
165	Ho	3	3039897.0	A	38250.00	1.26
175	Lu	3	3394676.0	A	36310.00	1.07
200	Hg	3		P		
201	Hg	3		P		
202	Hg	3		P		
203	Tl	3		P		
205	Tl	3		P		
206	Pb	3		P		
207	Pb	3		P		
208	Pb	3		P		
209	Bi	3	7066710.0	A	59710.00	0.84
238	U	3		P		

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052810B.B\007CALS.D\007CALS.D#

Date Acquired: May 28 2010 11:21 am

Acq. Method: 0NEW_ALL.M

Sample Name: **STD1**

Vial Number: 1305

Misc Info: Hg(0.005PPB),Al(1PPB),Na(10PPB)

Operator: FCW ICP-MS ID#SEA44

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M

Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C

Last Cal. Update: Jun 01 2010 06:15 pm

ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

QC&ISTD Elements

Sample Type: CalStd

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	643.4	P	98.28	15.28
60	Ni	45	2	290.0	P	91.66	31.61
63	Cu	45	2	536.7	P	81.45	15.18
66	Zn	45	2	396.7	P	76.38	19.25
78	Se	74	2	33.3	P	11.55	34.65

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	6875725	1.48	6852000	100.3	30 - 120	
45	Sc	1	246272	0.38	249000	98.9	30 - 120	
45	Sc	2	275982	0.90	274900	100.4	30 - 120	
74	Ge	1	196402	1.07	197500	99.4	30 - 120	
74	Ge	2	437485	0.97	437500	100.0	30 - 120	
74	Ge	3	1775634	2.18	1769000	100.4	30 - 120	
103	Rh	2	846870	0.44	847200	100.0	30 - 120	
103	Rh	3	1589874	1.39	1574000	101.0	30 - 120	
165	Ho	3	3088819	0.98	3040000	101.6	30 - 120	
175	Lu	3	3366781	0.36	3395000	99.2	30 - 120	
209	Bi	3	7090975	1.03	7067000	100.3	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052810B.B\008CALS.D\008CALS.D#
Date Acquired: May 28 2010 11:27 am
Acq. Method: 0NEW_ALL.M
Sample Name: **STD2**
Vial Number: 1304
Misc Info: Hg(0.05PPB),Al(10PPB),Na(100PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

Sample Type: CalStd

QC&ISTD Elements

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	7160.4	P	225.10	3.14
60	Ni	45	2	1366.8	P	160.40	11.74
63	Cu	45	2	3447.3	P	155.40	4.51
66	Zn	45	2	926.7	P	176.20	19.01
78	Se	74	2	76.7	P	25.17	32.83

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	6895765	0.66	6852000	100.6	30 - 120	
45	Sc	1	245138	1.39	249000	98.4	30 - 120	
45	Sc	2	275890	0.87	274900	100.4	30 - 120	
74	Ge	1	196554	1.21	197500	99.5	30 - 120	
74	Ge	2	434959	0.96	437500	99.4	30 - 120	
74	Ge	3	1775681	0.79	1769000	100.4	30 - 120	
103	Rh	2	844781	1.31	847200	99.7	30 - 120	
103	Rh	3	1584013	0.30	1574000	100.6	30 - 120	
165	Ho	3	3107365	0.50	3040000	102.2	30 - 120	
175	Lu	3	3375344	1.48	3395000	99.4	30 - 120	
209	Bi	3	7060410	0.98	7067000	99.9	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052810B.B\009CALS.D\009CALS.D#
Date Acquired: May 28 2010 11:33 am
Acq. Method: 0NEW_ALL.M
Sample Name: **STD3**
Vial Number: 1303
Misc Info: Hg(0.5PPB),Al(100PPB),Na(1,000PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

Sample Type: CalStd

QC&ISTD Elements

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	71369.7	P	1202.00	1.68
60	Ni	45	2	12690.3	P	258.40	2.04
63	Cu	45	2	32338.9	P	448.70	1.39
66	Zn	45	2	7049.0	P	272.30	3.86
78	Se	74	2	476.7	P	55.08	11.55

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	6794858	2.53	6852000	99.2	30 - 120	
45	Sc	1	250509	2.19	249000	100.6	30 - 120	
45	Sc	2	274178	1.52	274900	99.7	30 - 120	
74	Ge	1	198683	2.01	197500	100.6	30 - 120	
74	Ge	2	433201	1.45	437500	99.0	30 - 120	
74	Ge	3	1766602	0.77	1769000	99.9	30 - 120	
103	Rh	2	829361	1.64	847200	97.9	30 - 120	
103	Rh	3	1582137	1.38	1574000	100.5	30 - 120	
165	Ho	3	3087559	0.77	3040000	101.6	30 - 120	
175	Lu	3	3331358	0.64	3395000	98.1	30 - 120	
209	Bi	3	6963714	0.30	7067000	98.5	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052810B.B\010CALS.D\010CALS.D#
Date Acquired: May 28 2010 11:39 am
Acq. Method: 0NEW_ALL.M
Sample Name: **STD4**
Vial Number: 1302
Misc Info: Hg(2.5PPB),Al(500PPB),Na(5,000PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

Sample Type: CalStd

QC&ISTD Elements

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	346348.1	P	16500.00	4.76
60	Ni	45	2	61075.0	P	1138.00	1.86
63	Cu	45	2	156975.3	P	1226.00	0.78
66	Zn	45	2	35297.0	P	554.70	1.57
78	Se	74	2	2217.0	P	212.00	9.56

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	6673638	0.63	6852000	97.4	30 - 120	
45	Sc	1	245279	2.03	249000	98.5	30 - 120	
45	Sc	2	271267	1.17	274900	98.7	30 - 120	
74	Ge	1	193857	1.78	197500	98.2	30 - 120	
74	Ge	2	427888	0.73	437500	97.8	30 - 120	
74	Ge	3	1798443	0.49	1769000	101.7	30 - 120	
103	Rh	2	809438	0.83	847200	95.5	30 - 120	
103	Rh	3	1554723	0.87	1574000	98.8	30 - 120	
165	Ho	3	3065318	0.37	3040000	100.8	30 - 120	
175	Lu	3	3344053	1.27	3395000	98.5	30 - 120	
209	Bi	3	6863626	0.95	7067000	97.1	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052810B.B\011CALS.D\011CALS.D#
Date Acquired: May 28 2010 11:46 am
Acq. Method: 0NEW_ALL.M
Sample Name: **STD5**
Vial Number: 1301
Misc Info: Hg(5PPB) Al(1,000PPB)Na(10,000PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

Sample Type: CalStd

QC&ISTD Elements

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	723496.6	P	2488.00	0.34
60	Ni	45	2	118655.4	P	1609.00	1.36
63	Cu	45	2	306024.0	P	2054.00	0.67
66	Zn	45	2	67783.0	P	253.80	0.37
78	Se	74	2	4330.9	P	55.71	1.29

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	6866433	0.65	6852000	100.2	30 - 120	
45	Sc	1	231537	0.44	249000	93.0	30 - 120	
45	Sc	2	272793	1.54	274900	99.2	30 - 120	
74	Ge	1	180315	2.06	197500	91.3	30 - 120	
74	Ge	2	428523	0.34	437500	97.9	30 - 120	
74	Ge	3	1816075	1.65	1769000	102.7	30 - 120	
103	Rh	2	794771	0.34	847200	93.8	30 - 120	
103	Rh	3	1554143	1.48	1574000	98.7	30 - 120	
165	Ho	3	3062756	1.70	3040000	100.7	30 - 120	
175	Lu	3	3342256	1.16	3395000	98.4	30 - 120	
209	Bi	3	6753547	1.57	7067000	95.6	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\013SMPL.D\013SMPL.D#
Date Acquired: May 28 2010 11:58 am Acq. Method: 0NEW_ALL.M
Sample Name: ICV Vial Number: 1105
Misc Info: Hg(2 PPB),Al(400 PPB),Na(4,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**39.460**	ug/l	39.46	4.9	450	6	P	
60	**Ni**	2	**40.340**	ug/l	40.34	2.2	15000	45	P	
63	**Cu**	2	**40.690**	ug/l	40.69	1.7	15000	45	P	
66	**Zn**	2	**40.130**	ug/l	40.13	1.4	15000	45	P	
78	**Se**	2	**39.960**	ug/l	39.96	4.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6754635	1.61	6852000	**98.6**	30	-	120	
45	Sc	1	222657	0.80	249000	**89.4**	30	-	120	
45	Sc	2	275191	1.60	274900	**100.1**	30	-	120	
74	Ge	1	174957	0.53	197500	**88.6**	30	-	120	
74	Ge	2	432739	0.70	437500	**98.9**	30	-	120	
74	Ge	3	1786468	1.56	1769000	**101.0**	30	-	120	
103	Rh	2	818110	1.37	847200	**96.6**	30	-	120	
103	Rh	3	1564471	0.68	1574000	**99.4**	30	-	120	
165	Ho	3	3095713	0.50	3040000	**101.8**	30	-	120	
175	Lu	3	3388224	0.28	3395000	**99.8**	30	-	120	
209	Bi	3	6918586	0.19	7067000	**97.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\014SMPL.D\014SMPL.D#
Date Acquired: May 28 2010 12:04 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.017**	ug/l	0.02	19.7	450	6	P	
60	**Ni**	2	**-0.025**	ug/l	-0.02	51.5	15000	45	P	
63	**Cu**	2	**0.035**	ug/l	0.03	21.6	15000	45	P	
66	**Zn**	2	**0.253**	ug/l	0.25	11.9	15000	45	P	
78	**Se**	2	**-0.154**	ug/l	-0.15	224.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6710438	2.28	6852000	**97.9**	30	-	120	
45	Sc	1	229823	0.99	249000	**92.3**	30	-	120	
45	Sc	2	274759	0.27	274900	**99.9**	30	-	120	
74	Ge	1	179364	0.92	197500	**90.8**	30	-	120	
74	Ge	2	439683	0.59	437500	**100.5**	30	-	120	
74	Ge	3	1760039	0.30	1769000	**99.5**	30	-	120	
103	Rh	2	846512	1.67	847200	**99.9**	30	-	120	
103	Rh	3	1575281	1.34	1574000	**100.1**	30	-	120	
165	Ho	3	3067347	0.30	3040000	**100.9**	30	-	120	
175	Lu	3	3357275	1.26	3395000	**98.9**	30	-	120	
209	Bi	3	7108015	0.47	7067000	**100.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\016SMPL.D\016SMPL.D#
Date Acquired: May 28 2010 12:16 pm Acq. Method: 0NEW_ALL.M
Sample Name: CRI (2 PPB) (RL) Vial Number: 1107
Misc Info: Hg(0.1 PPB),Al(20 PPB),Na(200 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.000**	ug/l	2.00	4.9	450	6	P	
60	**Ni**	2	**2.020**	ug/l	2.02	5.3	15000	45	P	
63	**Cu**	2	**2.160**	ug/l	2.16	4.2	15000	45	P	
66	**Zn**	2	**2.134**	ug/l	2.13	10.5	15000	45	P	
78	**Se**	2	**1.896**	ug/l	1.90	8.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6725151	1.09	6852000	**98.1**	30	-	120	
45	Sc	1	227520	2.10	249000	**91.4**	30	-	120	
45	Sc	2	277942	1.19	274900	**101.1**	30	-	120	
74	Ge	1	177264	1.73	197500	**89.8**	30	-	120	
74	Ge	2	437155	1.40	437500	**99.9**	30	-	120	
74	Ge	3	1756703	1.41	1769000	**99.3**	30	-	120	
103	Rh	2	842834	0.40	847200	**99.5**	30	-	120	
103	Rh	3	1577394	0.54	1574000	**100.2**	30	-	120	
165	Ho	3	3095463	0.43	3040000	**101.8**	30	-	120	
175	Lu	3	3361092	0.79	3395000	**99.0**	30	-	120	
209	Bi	3	7093296	0.33	7067000	**100.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\017SMPL.D\017SMPL.D#
Date Acquired: May 28 2010 12:23 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICSA Vial Number: 1101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.005**	ug/l	0.01	29.9	450	6	P	
60	**Ni**	2	**2.629**	ug/l	2.63	8.1	15000	45	P	
63	**Cu**	2	**3.738**	ug/l	3.74	4.1	15000	45	P	
66	**Zn**	2	**3.385**	ug/l	3.39	10.1	15000	45	P	
78	**Se**	2	**0.176**	ug/l	0.18	87.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6017988	0.42	6852000	**87.8**	30	-	120	
45	Sc	1	199488	1.36	249000	**80.1**	30	-	120	
45	Sc	2	259394	0.95	274900	**94.4**	30	-	120	
74	Ge	1	144301	1.50	197500	**73.1**	30	-	120	
74	Ge	2	390851	1.74	437500	**89.3**	30	-	120	
74	Ge	3	1628055	0.27	1769000	**92.0**	30	-	120	
103	Rh	2	667290	1.66	847200	**78.8**	30	-	120	
103	Rh	3	1284552	2.77	1574000	**81.6**	30	-	120	
165	Ho	3	2767640	0.58	3040000	**91.0**	30	-	120	
175	Lu	3	3013887	0.24	3395000	**88.8**	30	-	120	
209	Bi	3	5594120	0.11	7067000	**79.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\018SMPL.D\018SMPL.D#
Date Acquired: May 28 2010 12:29 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICSAB Vial Number: 1102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.00	75.2	450	6	P	
60	**Ni**	2	**194.300**	ug/l	194.30	1.0	15000	45	P	
63	**Cu**	2	**189.700**	ug/l	189.70	0.7	15000	45	P	
66	**Zn**	2	**95.330**	ug/l	95.33	1.8	15000	45	P	
78	**Se**	2	**104.700**	ug/l	104.70	7.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5964549	1.00	6852000	**87.0**	30	-	120	
45	Sc	1	185411	1.03	249000	**74.5**	30	-	120	
45	Sc	2	248678	1.22	274900	**90.5**	30	-	120	
74	Ge	1	132634	1.38	197500	**67.2**	30	-	120	
74	Ge	2	374204	1.68	437500	**85.5**	30	-	120	
74	Ge	3	1588016	0.33	1769000	**89.8**	30	-	120	
103	Rh	2	650980	1.22	847200	**76.8**	30	-	120	
103	Rh	3	1278726	1.85	1574000	**81.2**	30	-	120	
165	Ho	3	2721201	0.61	3040000	**89.5**	30	-	120	
175	Lu	3	2958721	1.10	3395000	**87.1**	30	-	120	
209	Bi	3	5512896	0.35	7067000	**78.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\022SMPL.D\022SMPL.D#
Date Acquired: May 28 2010 12:53 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**50.310**	ug/l	50.31	1.0	450	6	P	
60	**Ni**	2	**51.730**	ug/l	51.73	1.7	15000	45	P	
63	**Cu**	2	**51.420**	ug/l	51.42	1.8	15000	45	P	
66	**Zn**	2	**50.780**	ug/l	50.78	1.3	15000	45	P	
78	**Se**	2	**50.470**	ug/l	50.47	3.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6729200	0.74	6852000	**98.2**	30	-	120	
45	Sc	1	234173	1.22	249000	**94.0**	30	-	120	
45	Sc	2	268346	0.45	274900	**97.6**	30	-	120	
74	Ge	1	182672	1.16	197500	**92.5**	30	-	120	
74	Ge	2	422032	1.19	437500	**96.5**	30	-	120	
74	Ge	3	1767132	0.23	1769000	**99.9**	30	-	120	
103	Rh	2	799987	0.73	847200	**94.4**	30	-	120	
103	Rh	3	1517479	0.29	1574000	**96.4**	30	-	120	
165	Ho	3	3056413	1.52	3040000	**100.5**	30	-	120	
175	Lu	3	3343152	0.31	3395000	**98.5**	30	-	120	
209	Bi	3	6688653	0.09	7067000	**94.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\023SMPL.D\023SMPL.D#
Date Acquired: May 28 2010 12:59 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.017**	ug/l	0.02	32.8	450	6	P	
60	**Ni**	2	**-0.020**	ug/l	-0.02	107.9	15000	45	P	
63	**Cu**	2	**0.036**	ug/l	0.04	34.3	15000	45	P	
66	**Zn**	2	**0.298**	ug/l	0.30	38.0	15000	45	P	
78	**Se**	2	**0.969**	ug/l	0.97	51.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6857350	3.63	6852000	**100.1**	30	-	120	
45	Sc	1	229013	1.97	249000	**92.0**	30	-	120	
45	Sc	2	268553	1.03	274900	**97.7**	30	-	120	
74	Ge	1	179280	1.41	197500	**90.8**	30	-	120	
74	Ge	2	422625	1.58	437500	**96.6**	30	-	120	
74	Ge	3	1732039	1.85	1769000	**97.9**	30	-	120	
103	Rh	2	822887	0.77	847200	**97.1**	30	-	120	
103	Rh	3	1562786	1.19	1574000	**99.3**	30	-	120	
165	Ho	3	3020054	1.29	3040000	**99.3**	30	-	120	
175	Lu	3	3307714	0.98	3395000	**97.4**	30	-	120	
209	Bi	3	6943521	1.43	7067000	**98.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\024SMPL.D\024SMPL.D#
Date Acquired: May 28 2010 01:05 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64447/21-A Vial Number: 2101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.011**	ug/l	0.11	76.9	450	6	P	
60	**Ni**	2	**-0.020**	ug/l	-0.20	183.0	15000	45	P	
63	**Cu**	2	**0.014**	ug/l	0.14	98.8	15000	45	P	
66	**Zn**	2	**0.081**	ug/l	0.81	126.6	15000	45	P	
78	**Se**	2	**-0.290**	ug/l	-2.90	78.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6657581	0.89	6852000	**97.2**	30	-	120	
45	Sc	1	231349	1.20	249000	**92.9**	30	-	120	
45	Sc	2	267565	1.03	274900	**97.3**	30	-	120	
74	Ge	1	180960	0.31	197500	**91.6**	30	-	120	
74	Ge	2	424470	2.09	437500	**97.0**	30	-	120	
74	Ge	3	1746968	0.52	1769000	**98.8**	30	-	120	
103	Rh	2	816622	1.21	847200	**96.4**	30	-	120	
103	Rh	3	1529071	1.02	1574000	**97.1**	30	-	120	
165	Ho	3	3016410	1.11	3040000	**99.2**	30	-	120	
175	Lu	3	3260006	2.01	3395000	**96.0**	30	-	120	
209	Bi	3	6838174	0.43	7067000	**96.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\025SMPL.D\025SMPL.D#
Date Acquired: May 28 2010 01:11 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-E SD Vial Number: 2102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.354**	ug/l	17.70	3.9	450	6	P	
60	**Ni**	2	**122.200**	ug/l	6,110.00	2.0	15000	45	P	
63	**Cu**	2	**21.080**	ug/l	1,054.00	1.9	15000	45	P	
66	**Zn**	2	**35.090**	ug/l	1,754.50	2.7	15000	45	P	
78	**Se**	2	**0.139**	ug/l	6.97	438.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6966793	2.09	6852000	**101.7**	30	-	120	
45	Sc	1	230015	0.97	249000	**92.4**	30	-	120	
45	Sc	2	268071	1.05	274900	**97.5**	30	-	120	
74	Ge	1	175021	0.90	197500	**88.6**	30	-	120	
74	Ge	2	405838	0.72	437500	**92.8**	30	-	120	
74	Ge	3	1727909	1.28	1769000	**97.7**	30	-	120	
103	Rh	2	764375	1.00	847200	**90.2**	30	-	120	
103	Rh	3	1490686	0.61	1574000	**94.7**	30	-	120	
165	Ho	3	2946037	0.04	3040000	**96.9**	30	-	120	
175	Lu	3	3176265	0.77	3395000	**93.6**	30	-	120	
209	Bi	3	6528461	0.75	7067000	**92.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\026SMPL.D\026SMPL.D#
Date Acquired: May 28 2010 01:17 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-E Vial Number: 2103
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.717**	ug/l	17.17	0.6	450	6	P	
60	**Ni**	2	**522.300**	ug/l	5,223.00	1.3	15000	45	P	
63	**Cu**	2	**91.480**	ug/l	914.80	1.9	15000	45	P	
66	**Zn**	2	**147.200**	ug/l	1,472.00	1.0	15000	45	P	
78	**Se**	2	**1.569**	ug/l	15.69	22.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6599182	1.53	6852000	**96.3**	30	-	120	
45	Sc	1	217427	1.13	249000	**87.3**	30	-	120	
45	Sc	2	289629	0.82	274900	**105.4**	30	-	120	
74	Ge	1	147199	2.13	197500	**74.5**	30	-	120	
74	Ge	2	398291	1.91	437500	**91.0**	30	-	120	
74	Ge	3	1715468	1.15	1769000	**97.0**	30	-	120	
103	Rh	2	739367	1.90	847200	**87.3**	30	-	120	
103	Rh	3	1424431	0.84	1574000	**90.5**	30	-	120	
165	Ho	3	2960878	0.85	3040000	**97.4**	30	-	120	
175	Lu	3	3179272	0.55	3395000	**93.6**	30	-	120	
209	Bi	3	6159990	0.99	7067000	**87.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\027SMPL.D\027SMPL.D#
Date Acquired: May 28 2010 01:23 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-F DU Vial Number: 2104
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.683**	ug/l	16.83	4.6	450	6	P	
60	**Ni**	2	**524.800**	ug/l	5,248.00	1.2	15000	45	P	
63	**Cu**	2	**91.200**	ug/l	912.00	1.4	15000	45	P	
66	**Zn**	2	**145.400**	ug/l	1,454.00	2.3	15000	45	P	
78	**Se**	2	**1.454**	ug/l	14.54	29.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6776124	2.18	6852000	**98.9**	30	-	120	
45	Sc	1	193544	1.10	249000	**77.7**	30	-	120	
45	Sc	2	291665	0.73	274900	**106.1**	30	-	120	
74	Ge	1	129525	1.31	197500	**65.6**	30	-	120	
74	Ge	2	404374	1.58	437500	**92.4**	30	-	120	
74	Ge	3	1704393	0.35	1769000	**96.3**	30	-	120	
103	Rh	2	741591	1.55	847200	**87.5**	30	-	120	
103	Rh	3	1440385	1.43	1574000	**91.5**	30	-	120	
165	Ho	3	2957843	1.03	3040000	**97.3**	30	-	120	
175	Lu	3	3186019	1.63	3395000	**93.8**	30	-	120	
209	Bi	3	6191694	0.59	7067000	**87.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\028SMPL.D\028SMPL.D#
Date Acquired: May 28 2010 01:29 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-G MS Vial Number: 2105
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.183**	ug/l	109.15	0.8	450	6	P	
60	**Ni**	2	**121.600**	ug/l	6,080.00	0.5	15000	45	P	
63	**Cu**	2	**27.750**	ug/l	1,387.50	0.9	15000	45	P	
66	**Zn**	2	**46.530**	ug/l	2,326.50	1.0	15000	45	P	
78	**Se**	2	**80.960**	ug/l	4,048.00	3.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7379795	0.18	6852000	**107.7**	30	-	120	
45	Sc	1	166999	0.84	249000	**67.1**	30	-	120	
45	Sc	2	278985	0.64	274900	**101.5**	30	-	120	
74	Ge	1	125242	0.43	197500	**63.4**	30	-	120	
74	Ge	2	421049	0.76	437500	**96.2**	30	-	120	
74	Ge	3	1825379	1.10	1769000	**103.2**	30	-	120	
103	Rh	2	788028	2.17	847200	**93.0**	30	-	120	
103	Rh	3	1563755	0.56	1574000	**99.3**	30	-	120	
165	Ho	3	3024895	0.87	3040000	**99.5**	30	-	120	
175	Lu	3	3282350	0.72	3395000	**96.7**	30	-	120	
209	Bi	3	6612966	0.32	7067000	**93.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\029SMPL.D\029SMPL.D#
Date Acquired: May 28 2010 01:36 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-H MSD Vial Number: 2106
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.271**	ug/l	113.55	0.4	450	6	P	
60	**Ni**	2	**126.700**	ug/l	6,335.00	1.3	15000	45	P	
63	**Cu**	2	**28.700**	ug/l	1,435.00	1.1	15000	45	P	
66	**Zn**	2	**47.980**	ug/l	2,399.00	1.3	15000	45	P	
78	**Se**	2	**78.360**	ug/l	3,918.00	6.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7252187	0.45	6852000	**105.8**	30	-	120	
45	Sc	1	166530	1.53	249000	**66.9**	30	-	120	
45	Sc	2	273942	1.18	274900	**99.7**	30	-	120	
74	Ge	1	124102	0.94	197500	**62.8**	30	-	120	
74	Ge	2	418001	1.80	437500	**95.5**	30	-	120	
74	Ge	3	1808947	0.36	1769000	**102.3**	30	-	120	
103	Rh	2	774739	1.53	847200	**91.4**	30	-	120	
103	Rh	3	1529539	0.52	1574000	**97.2**	30	-	120	
165	Ho	3	2990470	0.78	3040000	**98.4**	30	-	120	
175	Lu	3	3237682	0.38	3395000	**95.4**	30	-	120	
209	Bi	3	6569840	0.90	7067000	**93.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\030SMPL.D\030SMPL.D#
Date Acquired: May 28 2010 01:42 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-E PDS Vial Number: 2107
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.249**	ug/l	112.45	2.4	450	6	P	
60	**Ni**	2	**126.000**	ug/l	6,300.00	1.2	15000	45	P	
63	**Cu**	2	**28.210**	ug/l	1,410.50	1.8	15000	45	P	
66	**Zn**	2	**48.910**	ug/l	2,445.50	1.8	15000	45	P	
78	**Se**	2	**81.080**	ug/l	4,054.00	7.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7386729	1.34	6852000	**107.8**	30	-	120	
45	Sc	1	158853	2.42	249000	**63.8**	30	-	120	
45	Sc	2	273995	0.20	274900	**99.7**	30	-	120	
74	Ge	1	117227	1.67	197500	**59.4**	30	-	120	
74	Ge	2	418005	1.72	437500	**95.5**	30	-	120	
74	Ge	3	1794306	0.98	1769000	**101.4**	30	-	120	
103	Rh	2	783523	1.15	847200	**92.5**	30	-	120	
103	Rh	3	1536877	1.19	1574000	**97.6**	30	-	120	
165	Ho	3	3007922	0.36	3040000	**98.9**	30	-	120	
175	Lu	3	3247255	0.43	3395000	**95.6**	30	-	120	
209	Bi	3	6522480	0.39	7067000	**92.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\031SMPL.D\031SMPL.D#
Date Acquired: May 28 2010 01:48 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64447/22-A Vial Number: 2108
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.878**	ug/l	93.90	8.8	450	6	P	
60	**Ni**	2	**20.210**	ug/l	1,010.50	5.1	15000	45	P	
63	**Cu**	2	**10.120**	ug/l	506.00	3.8	15000	45	P	
66	**Zn**	2	**19.820**	ug/l	991.00	3.1	15000	45	P	
78	**Se**	2	**82.630**	ug/l	4,131.50	8.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7052535	1.51	6852000	**102.9**	30	-	120	
45	Sc	1	142963	1.00	249000	**57.4**	30	-	120	
45	Sc	2	270414	1.87	274900	**98.4**	30	-	120	
74	Ge	1	108186	0.65	197500	**54.8**	30	-	120	
74	Ge	2	418357	1.15	437500	**95.6**	30	-	120	
74	Ge	3	1754124	0.81	1769000	**99.2**	30	-	120	
103	Rh	2	807834	1.09	847200	**95.4**	30	-	120	
103	Rh	3	1544293	1.25	1574000	**98.1**	30	-	120	
165	Ho	3	3012853	0.19	3040000	**99.1**	30	-	120	
175	Lu	3	3245673	0.94	3395000	**95.6**	30	-	120	
209	Bi	3	6773725	1.09	7067000	**95.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\032SMPL.D\032SMPL.D#
Date Acquired: May 28 2010 01:54 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64447/23-A Vial Number: 2109
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.830**	ug/l	91.50	4.5	450	6	P	
60	**Ni**	2	**19.760**	ug/l	988.00	3.7	15000	45	P	
63	**Cu**	2	**10.340**	ug/l	517.00	1.4	15000	45	P	
66	**Zn**	2	**19.830**	ug/l	991.50	3.1	15000	45	P	
78	**Se**	2	**80.180**	ug/l	4,009.00	4.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7079347	1.06	6852000	**103.3**	30	-	120	
45	Sc	1	133396	1.32	249000	**53.6**	30	-	120	
45	Sc	2	273415	0.81	274900	**99.5**	30	-	120	
74	Ge	1	97905	1.64	197500	**49.6**	30	-	120	
74	Ge	2	425652	1.19	437500	**97.3**	30	-	120	
74	Ge	3	1795484	1.32	1769000	**101.5**	30	-	120	
103	Rh	2	816832	0.45	847200	**96.4**	30	-	120	
103	Rh	3	1583804	0.36	1574000	**100.6**	30	-	120	
165	Ho	3	3025122	0.44	3040000	**99.5**	30	-	120	
175	Lu	3	3346912	0.60	3395000	**98.6**	30	-	120	
209	Bi	3	6871730	0.02	7067000	**97.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\033SMPL.D\033SMPL.D#
Date Acquired: May 28 2010 02:00 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64447/24-A Vial Number: 2110
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**86.600**	ug/l	1,732.00	5.0	450	6	P	
60	**Ni**	2	**99.350**	ug/l	1,987.00	1.4	15000	45	P	
63	**Cu**	2	**38.060**	ug/l	761.20	0.5	15000	45	P	
66	**Zn**	2	**195.100**	ug/l	3,902.00	0.6	15000	45	P	
78	**Se**	2	**86.900**	ug/l	1,738.00	2.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7281791	2.55	6852000	**106.3**	30	-	120	
45	Sc	1	124793	0.50	249000	**50.1**	30	-	120	
45	Sc	2	275406	0.86	274900	**100.2**	30	-	120	
74	Ge	1	92488	2.06	197500	**46.8**	30	-	120	
74	Ge	2	421321	1.32	437500	**96.3**	30	-	120	
74	Ge	3	1797557	1.77	1769000	**101.6**	30	-	120	
103	Rh	2	803499	1.22	847200	**94.8**	30	-	120	
103	Rh	3	1562024	1.60	1574000	**99.2**	30	-	120	
165	Ho	3	3080494	0.36	3040000	**101.3**	30	-	120	
175	Lu	3	3345973	1.21	3395000	**98.6**	30	-	120	
209	Bi	3	6756613	1.17	7067000	**95.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\034SMPL.D\034SMPL.D#
Date Acquired: May 28 2010 02:06 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.630**	ug/l	49.63	0.5	450	6	P	
60	**Ni**	2	**50.070**	ug/l	50.07	0.2	15000	45	P	
63	**Cu**	2	**50.450**	ug/l	50.45	0.8	15000	45	P	
66	**Zn**	2	**49.060**	ug/l	49.06	3.6	15000	45	P	
78	**Se**	2	**54.330**	ug/l	54.33	7.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7304887	0.77	6852000	**106.6**	30	-	120	
45	Sc	1	116646	1.03	249000	**46.8**	30	-	120	
45	Sc	2	276922	0.18	274900	**100.7**	30	-	120	
74	Ge	1	86751	1.84	197500	**43.9**	30	-	120	
74	Ge	2	428960	1.22	437500	**98.0**	30	-	120	
74	Ge	3	1862062	0.84	1769000	**105.3**	30	-	120	
103	Rh	2	805275	0.85	847200	**95.1**	30	-	120	
103	Rh	3	1596588	1.05	1574000	**101.4**	30	-	120	
165	Ho	3	3070905	1.27	3040000	**101.0**	30	-	120	
175	Lu	3	3328380	0.60	3395000	**98.0**	30	-	120	
209	Bi	3	6829311	0.91	7067000	**96.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\035SMPL.D\035SMPL.D#
Date Acquired: May 28 2010 02:12 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.023**	ug/l	0.02	30.2	450	6	P	
60	**Ni**	2	**0.041**	ug/l	0.04	106.3	15000	45	P	
63	**Cu**	2	**0.046**	ug/l	0.05	3.9	15000	45	P	
66	**Zn**	2	**0.247**	ug/l	0.25	23.8	15000	45	P	
78	**Se**	2	**-0.235**	ug/l	-0.24	304.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7330039	0.45	6852000	**107.0**	30	-	120	
45	Sc	1	114792	1.01	249000	**46.1**	30	-	120	
45	Sc	2	280532	1.35	274900	**102.0**	30	-	120	
74	Ge	1	86556	0.74	197500	**43.8**	30	-	120	
74	Ge	2	443582	0.29	437500	**101.4**	30	-	120	
74	Ge	3	1829810	0.65	1769000	**103.4**	30	-	120	
103	Rh	2	849273	1.33	847200	**100.2**	30	-	120	
103	Rh	3	1638973	1.12	1574000	**104.1**	30	-	120	
165	Ho	3	3137499	1.42	3040000	**103.2**	30	-	120	
175	Lu	3	3349899	1.23	3395000	**98.7**	30	-	120	
209	Bi	3	7051860	1.11	7067000	**99.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\036SMPL.D\036SMPL.D#
Date Acquired: May 28 2010 02:18 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-2-B Vial Number: 2201
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.171**	ug/l	11.71	2.3	450	6	P	
60	**Ni**	2	**703.000**	ug/l	7,030.00	1.2	15000	45	P	
63	**Cu**	2	**52.670**	ug/l	526.70	0.2	15000	45	P	
66	**Zn**	2	**110.500**	ug/l	1,105.00	0.3	15000	45	P	
78	**Se**	2	**0.674**	ug/l	6.74	108.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6795932	1.51	6852000	**99.2**	30	-	120	
45	Sc	1	107180	1.23	249000	**43.0**	30	-	120	
45	Sc	2	292471	0.77	274900	**106.4**	30	-	120	
74	Ge	1	72292	0.23	197500	**36.6**	30	-	120	
74	Ge	2	417726	1.48	437500	**95.5**	30	-	120	
74	Ge	3	1762750	1.03	1769000	**99.6**	30	-	120	
103	Rh	2	781111	1.96	847200	**92.2**	30	-	120	
103	Rh	3	1486366	0.82	1574000	**94.4**	30	-	120	
165	Ho	3	3026684	1.05	3040000	**99.6**	30	-	120	
175	Lu	3	3311098	1.80	3395000	**97.5**	30	-	120	
209	Bi	3	6378820	1.02	7067000	**90.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\037SMPL.D\037SMPL.D#
Date Acquired: May 28 2010 02:24 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-3-B Vial Number: 2202
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.263**	ug/l	12.63	2.6	450	6	P	
60	**Ni**	2	**998.800**	ug/l	9,988.00	1.3	15000	45	A	
63	**Cu**	2	**73.010**	ug/l	730.10	2.0	15000	45	P	
66	**Zn**	2	**129.200**	ug/l	1,292.00	0.1	15000	45	P	
78	**Se**	2	**1.744**	ug/l	17.44	30.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6704373	0.40	6852000	**97.8**	30	-	120	
45	Sc	1	109637	1.04	249000	**44.0**	30	-	120	
45	Sc	2	293864	0.48	274900	**106.9**	30	-	120	
74	Ge	1	70469	2.03	197500	**35.7**	30	-	120	
74	Ge	2	410981	1.01	437500	**93.9**	30	-	120	
74	Ge	3	1778560	1.02	1769000	**100.5**	30	-	120	
103	Rh	2	759321	1.57	847200	**89.6**	30	-	120	
103	Rh	3	1495136	0.53	1574000	**95.0**	30	-	120	
165	Ho	3	3060137	0.36	3040000	**100.7**	30	-	120	
175	Lu	3	3327531	1.01	3395000	**98.0**	30	-	120	
209	Bi	3	6339293	0.28	7067000	**89.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\038SMPL.D\038SMPL.D#
Date Acquired: May 28 2010 02:30 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-4-B Vial Number: 2203
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.171**	ug/l	11.71	0.2	450	6	P	
60	**Ni**	2	**1111.000**	ug/l	11,110.00	1.2	15000	45	A	
63	**Cu**	2	**150.300**	ug/l	1,503.00	0.9	15000	45	P	
66	**Zn**	2	**157.500**	ug/l	1,575.00	1.5	15000	45	P	
78	**Se**	2	**1.272**	ug/l	12.72	30.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6645485	1.67	6852000	**97.0**	30	-	120	
45	Sc	1	104185	2.38	249000	**41.8**	30	-	120	
45	Sc	2	305327	0.25	274900	**111.1**	30	-	120	
74	Ge	1	63190	0.97	197500	**32.0**	30	-	120	
74	Ge	2	408468	1.04	437500	**93.4**	30	-	120	
74	Ge	3	1729912	1.33	1769000	**97.8**	30	-	120	
103	Rh	2	757563	0.99	847200	**89.4**	30	-	120	
103	Rh	3	1486144	1.32	1574000	**94.4**	30	-	120	
165	Ho	3	3011144	1.44	3040000	**99.1**	30	-	120	
175	Lu	3	3286305	1.37	3395000	**96.8**	30	-	120	
209	Bi	3	6307795	1.29	7067000	**89.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\039SMPL.D\039SMPL.D#
Date Acquired: May 28 2010 02:36 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-5-B Vial Number: 2204
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.317**	ug/l	13.17	2.1	450	6	P	
60	**Ni**	2	**923.200**	ug/l	9,232.00	1.2	15000	45	P	
63	**Cu**	2	**84.010**	ug/l	840.10	0.3	15000	45	P	
66	**Zn**	2	**145.400**	ug/l	1,454.00	1.0	15000	45	P	
78	**Se**	2	**0.691**	ug/l	6.91	35.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6797935	0.07	6852000	**99.2**	30	-	120	
45	Sc	1	101325	1.29	249000	**40.7**	30	-	120	
45	Sc	2	296145	1.06	274900	**107.7**	30	-	120	
74	Ge	1	65309	1.55	197500	**33.1**	30	-	120	
74	Ge	2	411930	1.77	437500	**94.2**	30	-	120	
74	Ge	3	1800076	0.31	1769000	**101.8**	30	-	120	
103	Rh	2	761207	0.86	847200	**89.8**	30	-	120	
103	Rh	3	1533205	0.51	1574000	**97.4**	30	-	120	
165	Ho	3	3077517	0.59	3040000	**101.2**	30	-	120	
175	Lu	3	3307495	0.21	3395000	**97.4**	30	-	120	
209	Bi	3	6422904	0.29	7067000	**90.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\040SMPL.D\040SMPL.D#
Date Acquired: May 28 2010 02:42 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-6-B Vial Number: 2205
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.221**	ug/l	12.21	2.6	450	6	P	
60	**Ni**	2	**540.300**	ug/l	5,403.00	1.3	15000	45	P	
63	**Cu**	2	**65.430**	ug/l	654.30	1.8	15000	45	P	
66	**Zn**	2	**197.600**	ug/l	1,976.00	0.1	15000	45	P	
78	**Se**	2	**1.200**	ug/l	12.00	58.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7001349	1.32	6852000	**102.2**	30	-	120	
45	Sc	1	89009	0.19	249000	**35.7**	30	-	120	
45	Sc	2	291283	1.58	274900	**106.0**	30	-	120	
74	Ge	1	58508	2.30	197500	**29.6**	30	-	120	**IS Fail**
74	Ge	2	422177	1.35	437500	**96.5**	30	-	120	
74	Ge	3	1819658	1.30	1769000	**102.9**	30	-	120	
103	Rh	2	788737	0.73	847200	**93.1**	30	-	120	
103	Rh	3	1556249	1.37	1574000	**98.9**	30	-	120	
165	Ho	3	3146069	1.24	3040000	**103.5**	30	-	120	
175	Lu	3	3357370	0.21	3395000	**98.9**	30	-	120	
209	Bi	3	6572919	1.58	7067000	**93.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\041SMPL.D\041SMPL.D#
Date Acquired: May 28 2010 02:48 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-7-B Vial Number: 2206
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.280**	ug/l	12.80	1.7	450	6	P	
60	**Ni**	2	**800.100**	ug/l	8,001.00	1.1	15000	45	P	
63	**Cu**	2	**83.820**	ug/l	838.20	0.4	15000	45	P	
66	**Zn**	2	**149.000**	ug/l	1,490.00	2.6	15000	45	P	
78	**Se**	2	**1.794**	ug/l	17.94	39.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6796712	1.59	6852000	**99.2**	30	-	120	
45	Sc	1	95300	0.82	249000	**38.3**	30	-	120	
45	Sc	2	281567	1.14	274900	**102.4**	30	-	120	
74	Ge	1	63629	0.84	197500	**32.2**	30	-	120	
74	Ge	2	414828	1.13	437500	**94.8**	30	-	120	
74	Ge	3	1770697	0.57	1769000	**100.1**	30	-	120	
103	Rh	2	763800	1.43	847200	**90.2**	30	-	120	
103	Rh	3	1513272	0.87	1574000	**96.1**	30	-	120	
165	Ho	3	3065239	0.47	3040000	**100.8**	30	-	120	
175	Lu	3	3298775	0.65	3395000	**97.2**	30	-	120	
209	Bi	3	6396200	0.19	7067000	**90.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\042SMPL.D\042SMPL.D#
Date Acquired: May 28 2010 02:55 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-8-B Vial Number: 2207
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.548**	ug/l	15.48	2.0	450	6	P	
60	**Ni**	2	**970.000**	ug/l	9,700.00	1.2	15000	45	A	
63	**Cu**	2	**104.400**	ug/l	1,044.00	1.0	15000	45	P	
66	**Zn**	2	**168.100**	ug/l	1,681.00	0.8	15000	45	P	
78	**Se**	2	**1.722**	ug/l	17.22	70.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6859719	0.32	6852000	**100.1**	30	-	120	
45	Sc	1	97715	0.79	249000	**39.2**	30	-	120	
45	Sc	2	297435	0.34	274900	**108.2**	30	-	120	
74	Ge	1	62775	1.17	197500	**31.8**	30	-	120	
74	Ge	2	414063	0.75	437500	**94.6**	30	-	120	
74	Ge	3	1810170	0.62	1769000	**102.3**	30	-	120	
103	Rh	2	770505	0.69	847200	**90.9**	30	-	120	
103	Rh	3	1541831	1.08	1574000	**98.0**	30	-	120	
165	Ho	3	3080282	0.69	3040000	**101.3**	30	-	120	
175	Lu	3	3316749	1.47	3395000	**97.7**	30	-	120	
209	Bi	3	6415690	0.37	7067000	**90.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\043SMPL.D\043SMPL.D#
Date Acquired: May 28 2010 03:01 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-9-B Vial Number: 2208
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.014**	ug/l	10.14	2.6	450	6	P	
60	**Ni**	2	**1546.000**	ug/l	15,460.00	0.9	15000	45	A	
63	**Cu**	2	**68.780**	ug/l	687.80	1.6	15000	45	P	
66	**Zn**	2	**125.900**	ug/l	1,259.00	1.0	15000	45	P	
78	**Se**	2	**0.616**	ug/l	6.16	99.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6744613	1.01	6852000	**98.4**	30	-	120	
45	Sc	1	91573	2.27	249000	**36.8**	30	-	120	
45	Sc	2	284316	0.23	274900	**103.4**	30	-	120	
74	Ge	1	59459	2.09	197500	**30.1**	30	-	120	
74	Ge	2	410122	1.50	437500	**93.7**	30	-	120	
74	Ge	3	1772339	1.01	1769000	**100.2**	30	-	120	
103	Rh	2	769504	2.25	847200	**90.8**	30	-	120	
103	Rh	3	1503983	0.42	1574000	**95.6**	30	-	120	
165	Ho	3	2991174	0.73	3040000	**98.4**	30	-	120	
175	Lu	3	3272057	0.39	3395000	**96.4**	30	-	120	
209	Bi	3	6407657	1.02	7067000	**90.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\044SMPL.D\044SMPL.D#
Date Acquired: May 28 2010 03:07 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-10-B Vial Number: 2209
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.942**	ug/l	9.42	2.3	450	6	P	
60	**Ni**	2	**1896.000**	ug/l	18,960.00	1.0	15000	45	A	
63	**Cu**	2	**60.210**	ug/l	602.10	1.8	15000	45	P	
66	**Zn**	2	**121.900**	ug/l	1,219.00	2.4	15000	45	P	
78	**Se**	2	**1.565**	ug/l	15.65	49.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6633994	1.70	6852000	**96.8**	30	-	120	
45	Sc	1	90498	2.52	249000	**36.3**	30	-	120	
45	Sc	2	285724	1.03	274900	**103.9**	30	-	120	
74	Ge	1	58726	2.84	197500	**29.7**	30	-	120	**IS Fail**
74	Ge	2	413380	0.85	437500	**94.5**	30	-	120	
74	Ge	3	1819507	1.09	1769000	**102.9**	30	-	120	
103	Rh	2	775361	1.12	847200	**91.5**	30	-	120	
103	Rh	3	1534186	0.60	1574000	**97.5**	30	-	120	
165	Ho	3	3061887	1.57	3040000	**100.7**	30	-	120	
175	Lu	3	3313251	0.95	3395000	**97.6**	30	-	120	
209	Bi	3	6404408	1.00	7067000	**90.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\045SMPL.D\045SMPL.D#
Date Acquired: May 28 2010 03:13 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-11-B Vial Number: 2210
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.858**	ug/l	8.58	2.5	450	6	P	
60	**Ni**	2	**499.800**	ug/l	4,998.00	1.7	15000	45	P	
63	**Cu**	2	**84.050**	ug/l	840.50	0.9	15000	45	P	
66	**Zn**	2	**138.200**	ug/l	1,382.00	1.0	15000	45	P	
78	**Se**	2	**2.926**	ug/l	29.26	31.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6653355	1.27	6852000	**97.1**	30	-	120	
45	Sc	1	99632	1.86	249000	**40.0**	30	-	120	
45	Sc	2	276422	0.96	274900	**100.6**	30	-	120	
74	Ge	1	67623	1.02	197500	**34.2**	30	-	120	
74	Ge	2	405052	0.73	437500	**92.6**	30	-	120	
74	Ge	3	1765316	1.47	1769000	**99.8**	30	-	120	
103	Rh	2	773968	0.53	847200	**91.4**	30	-	120	
103	Rh	3	1510695	0.74	1574000	**96.0**	30	-	120	
165	Ho	3	3067810	1.89	3040000	**100.9**	30	-	120	
175	Lu	3	3329480	0.28	3395000	**98.1**	30	-	120	
209	Bi	3	6562722	0.22	7067000	**92.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\046SMPL.D\046SMPL.D#
Date Acquired: May 28 2010 03:19 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.420**	ug/l	49.42	1.6	450	6	P	
60	**Ni**	2	**52.100**	ug/l	52.10	1.6	15000	45	P	
63	**Cu**	2	**52.360**	ug/l	52.36	0.6	15000	45	P	
66	**Zn**	2	**51.190**	ug/l	51.19	1.2	15000	45	P	
78	**Se**	2	**52.830**	ug/l	52.83	3.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6890963	1.34	6852000	**100.6**	30	-	120	
45	Sc	1	96677	0.40	249000	**38.8**	30	-	120	
45	Sc	2	264538	1.27	274900	**96.2**	30	-	120	
74	Ge	1	71112	1.25	197500	**36.0**	30	-	120	
74	Ge	2	424559	0.14	437500	**97.0**	30	-	120	
74	Ge	3	1838938	0.23	1769000	**104.0**	30	-	120	
103	Rh	2	811114	1.45	847200	**95.7**	30	-	120	
103	Rh	3	1587607	1.98	1574000	**100.9**	30	-	120	
165	Ho	3	3096926	0.59	3040000	**101.9**	30	-	120	
175	Lu	3	3384479	0.57	3395000	**99.7**	30	-	120	
209	Bi	3	6960762	0.73	7067000	**98.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\047SMPL.D\047SMPL.D#
Date Acquired: May 28 2010 03:25 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.018**	ug/l	0.02	20.6	450	6	P	
60	**Ni**	2	**0.160**	ug/l	0.16	15.9	15000	45	P	
63	**Cu**	2	**0.056**	ug/l	0.06	10.4	15000	45	P	
66	**Zn**	2	**0.175**	ug/l	0.18	52.4	15000	45	P	
78	**Se**	2	**0.017**	ug/l	0.02	3475.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6719508	1.84	6852000	**98.1**	30	-	120	
45	Sc	1	102374	0.47	249000	**41.1**	30	-	120	
45	Sc	2	264514	0.89	274900	**96.2**	30	-	120	
74	Ge	1	77350	0.75	197500	**39.2**	30	-	120	
74	Ge	2	427234	1.67	437500	**97.7**	30	-	120	
74	Ge	3	1812443	1.04	1769000	**102.5**	30	-	120	
103	Rh	2	842609	0.98	847200	**99.5**	30	-	120	
103	Rh	3	1593457	1.48	1574000	**101.2**	30	-	120	
165	Ho	3	3090749	1.02	3040000	**101.7**	30	-	120	
175	Lu	3	3401524	1.36	3395000	**100.2**	30	-	120	
209	Bi	3	7119023	2.00	7067000	**100.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\048SMPL.D\048SMPL.D#
Date Acquired: May 28 2010 03:31 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-12-B Vial Number: 2301
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.302**	ug/l	13.02	1.7	450	6	P	
60	**Ni**	2	**994.200**	ug/l	9,942.00	0.4	15000	45	P	
63	**Cu**	2	**102.900**	ug/l	1,029.00	0.8	15000	45	P	
66	**Zn**	2	**158.400**	ug/l	1,584.00	1.9	15000	45	P	
78	**Se**	2	**1.258**	ug/l	12.58	38.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6566023	0.46	6852000	**95.8**	30	-	120	
45	Sc	1	107909	0.22	249000	**43.3**	30	-	120	
45	Sc	2	289420	0.94	274900	**105.3**	30	-	120	
74	Ge	1	71381	2.03	197500	**36.1**	30	-	120	
74	Ge	2	410298	1.59	437500	**93.8**	30	-	120	
74	Ge	3	1790011	0.91	1769000	**101.2**	30	-	120	
103	Rh	2	774305	1.93	847200	**91.4**	30	-	120	
103	Rh	3	1541022	1.58	1574000	**97.9**	30	-	120	
165	Ho	3	3120903	0.39	3040000	**102.7**	30	-	120	
175	Lu	3	3353434	0.98	3395000	**98.8**	30	-	120	
209	Bi	3	6620063	0.77	7067000	**93.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\049SMPL.D\049SMPL.D#
Date Acquired: May 28 2010 03:37 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-13-B Vial Number: 2302
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.166**	ug/l	11.66	0.6	450	6	P	
60	**Ni**	2	**947.300**	ug/l	9,473.00	1.1	15000	45	P	
63	**Cu**	2	**95.310**	ug/l	953.10	1.7	15000	45	P	
66	**Zn**	2	**165.400**	ug/l	1,654.00	2.0	15000	45	P	
78	**Se**	2	**1.315**	ug/l	13.15	76.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6746423	1.03	6852000	**98.5**	30	-	120	
45	Sc	1	107620	1.27	249000	**43.2**	30	-	120	
45	Sc	2	285000	1.07	274900	**103.7**	30	-	120	
74	Ge	1	71632	0.64	197500	**36.3**	30	-	120	
74	Ge	2	399691	1.00	437500	**91.4**	30	-	120	
74	Ge	3	1779101	0.75	1769000	**100.6**	30	-	120	
103	Rh	2	757031	1.50	847200	**89.4**	30	-	120	
103	Rh	3	1507669	1.55	1574000	**95.8**	30	-	120	
165	Ho	3	3061585	1.15	3040000	**100.7**	30	-	120	
175	Lu	3	3314280	1.26	3395000	**97.6**	30	-	120	
209	Bi	3	6610341	0.08	7067000	**93.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\050SMPL.D\050SMPL.D#
Date Acquired: May 28 2010 03:43 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-14-B Vial Number: 2303
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.668**	ug/l	16.68	1.4	450	6	P	
60	**Ni**	2	**1263.000**	ug/l	12,630.00	1.8	15000	45	A	
63	**Cu**	2	**102.200**	ug/l	1,022.00	1.8	15000	45	P	
66	**Zn**	2	**182.800**	ug/l	1,828.00	2.4	15000	45	P	
78	**Se**	2	**1.568**	ug/l	15.68	33.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6606357	1.97	6852000	**96.4**	30	-	120	
45	Sc	1	104151	2.27	249000	**41.8**	30	-	120	
45	Sc	2	285945	2.09	274900	**104.0**	30	-	120	
74	Ge	1	69192	1.65	197500	**35.0**	30	-	120	
74	Ge	2	413609	1.30	437500	**94.5**	30	-	120	
74	Ge	3	1773835	1.14	1769000	**100.3**	30	-	120	
103	Rh	2	788892	1.19	847200	**93.1**	30	-	120	
103	Rh	3	1533931	0.51	1574000	**97.5**	30	-	120	
165	Ho	3	3111669	1.15	3040000	**102.4**	30	-	120	
175	Lu	3	3359214	1.91	3395000	**98.9**	30	-	120	
209	Bi	3	6734450	1.18	7067000	**95.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\051SMPL.D\051SMPL.D#
Date Acquired: May 28 2010 03:49 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-15-B Vial Number: 2304
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.860**	ug/l	8.60	1.4	450	6	P	
60	**Ni**	2	**3489.000**	ug/l	34,890.00	1.0	15000	45	A	
63	**Cu**	2	**37.790**	ug/l	377.90	0.9	15000	45	P	
66	**Zn**	2	**110.100**	ug/l	1,101.00	3.0	15000	45	P	
78	**Se**	2	**0.992**	ug/l	9.92	84.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6173455	0.66	6852000	**90.1**	30	-	120	
45	Sc	1	94581	0.42	249000	**38.0**	30	-	120	
45	Sc	2	271435	1.37	274900	**98.7**	30	-	120	
74	Ge	1	63194	0.77	197500	**32.0**	30	-	120	
74	Ge	2	395838	1.41	437500	**90.5**	30	-	120	
74	Ge	3	1704445	0.44	1769000	**96.4**	30	-	120	
103	Rh	2	747966	1.29	847200	**88.3**	30	-	120	
103	Rh	3	1473488	1.51	1574000	**93.6**	30	-	120	
165	Ho	3	3030412	0.66	3040000	**99.7**	30	-	120	
175	Lu	3	3277980	0.85	3395000	**96.6**	30	-	120	
209	Bi	3	6373887	0.22	7067000	**90.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\052SMPL.D\052SMPL.D#
Date Acquired: May 28 2010 03:55 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-16-B Vial Number: 2305
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.793**	ug/l	7.93	3.2	450	6	P	
60	**Ni**	2	**2881.000**	ug/l	28,810.00	1.7	15000	45	A	
63	**Cu**	2	**46.910**	ug/l	469.10	2.5	15000	45	P	
66	**Zn**	2	**115.400**	ug/l	1,154.00	1.5	15000	45	P	
78	**Se**	2	**0.519**	ug/l	5.19	51.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5941458	2.16	6852000	**86.7**	30	-	120	
45	Sc	1	98735	1.17	249000	**39.7**	30	-	120	
45	Sc	2	270168	1.17	274900	**98.3**	30	-	120	
74	Ge	1	64397	2.45	197500	**32.6**	30	-	120	
74	Ge	2	389764	0.83	437500	**89.1**	30	-	120	
74	Ge	3	1676727	1.53	1769000	**94.8**	30	-	120	
103	Rh	2	741788	1.71	847200	**87.6**	30	-	120	
103	Rh	3	1436790	0.85	1574000	**91.3**	30	-	120	
165	Ho	3	2986200	0.61	3040000	**98.2**	30	-	120	
175	Lu	3	3247564	0.67	3395000	**95.7**	30	-	120	
209	Bi	3	6331851	1.11	7067000	**89.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\053SMPL.D\053SMPL.D#
Date Acquired: May 28 2010 04:01 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-17-A Vial Number: 2306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.009**	ug/l	10.09	4.9	450	6	P	
60	**Ni**	2	**488.000**	ug/l	4,880.00	0.7	15000	45	P	
63	**Cu**	2	**144.600**	ug/l	1,446.00	0.9	15000	45	P	
66	**Zn**	2	**183.400**	ug/l	1,834.00	1.8	15000	45	P	
78	**Se**	2	**0.947**	ug/l	9.47	173.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6412321	2.25	6852000	**93.6**	30	-	120	
45	Sc	1	98627	1.46	249000	**39.6**	30	-	120	
45	Sc	2	266678	0.30	274900	**97.0**	30	-	120	
74	Ge	1	66736	1.66	197500	**33.8**	30	-	120	
74	Ge	2	389144	0.22	437500	**88.9**	30	-	120	
74	Ge	3	1705475	0.89	1769000	**96.4**	30	-	120	
103	Rh	2	736951	0.45	847200	**87.0**	30	-	120	
103	Rh	3	1470992	1.71	1574000	**93.5**	30	-	120	
165	Ho	3	3063676	0.83	3040000	**100.8**	30	-	120	
175	Lu	3	3309844	0.21	3395000	**97.5**	30	-	120	
209	Bi	3	6500180	0.73	7067000	**92.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\054SMPL.D\054SMPL.D#
Date Acquired: May 28 2010 04:07 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.230**	ug/l	49.23	0.6	450	6	P	
60	**Ni**	2	**52.390**	ug/l	52.39	2.1	15000	45	P	
63	**Cu**	2	**52.290**	ug/l	52.29	2.3	15000	45	P	
66	**Zn**	2	**51.220**	ug/l	51.22	2.7	15000	45	P	
78	**Se**	2	**48.410**	ug/l	48.41	5.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6752163	0.46	6852000	**98.5**	30	-	120	
45	Sc	1	90498	1.65	249000	**36.3**	30	-	120	
45	Sc	2	256232	0.81	274900	**93.2**	30	-	120	
74	Ge	1	68032	2.89	197500	**34.4**	30	-	120	
74	Ge	2	417423	0.95	437500	**95.4**	30	-	120	
74	Ge	3	1799160	0.79	1769000	**101.7**	30	-	120	
103	Rh	2	800645	1.09	847200	**94.5**	30	-	120	
103	Rh	3	1591221	1.41	1574000	**101.1**	30	-	120	
165	Ho	3	3152072	0.36	3040000	**103.7**	30	-	120	
175	Lu	3	3397988	1.10	3395000	**100.1**	30	-	120	
209	Bi	3	6975768	0.37	7067000	**98.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\055SMPL.D\055SMPL.D#
Date Acquired: May 28 2010 04:13 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.015**	ug/l	0.02	18.1	450	6	P	
60	**Ni**	2	**0.153**	ug/l	0.15	34.5	15000	45	P	
63	**Cu**	2	**0.043**	ug/l	0.04	35.2	15000	45	P	
66	**Zn**	2	**0.197**	ug/l	0.20	23.1	15000	45	P	
78	**Se**	2	**-0.057**	ug/l	-0.06	19.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6606218	1.11	6852000	**96.4**	30	-	120	
45	Sc	1	97624	0.38	249000	**39.2**	30	-	120	
45	Sc	2	259689	0.59	274900	**94.5**	30	-	120	
74	Ge	1	72940	0.98	197500	**36.9**	30	-	120	
74	Ge	2	426261	1.57	437500	**97.4**	30	-	120	
74	Ge	3	1783009	0.51	1769000	**100.8**	30	-	120	
103	Rh	2	837284	1.43	847200	**98.8**	30	-	120	
103	Rh	3	1576259	0.99	1574000	**100.1**	30	-	120	
165	Ho	3	3091315	1.39	3040000	**101.7**	30	-	120	
175	Lu	3	3384112	0.39	3395000	**99.7**	30	-	120	
209	Bi	3	7168954	0.48	7067000	**101.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\056SMPL.D\056SMPL.D#
Date Acquired: May 28 2010 04:19 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64514/21-A Vial Number: 2401
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.005**	ug/l	0.05	37.3	450	6	P	
60	**Ni**	2	**0.083**	ug/l	0.83	73.4	15000	45	P	
63	**Cu**	2	**0.021**	ug/l	0.21	119.7	15000	45	P	
66	**Zn**	2	**-0.002**	ug/l	-0.02	1967.8	15000	45	P	
78	**Se**	2	**0.103**	ug/l	1.03	525.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6646206	1.31	6852000	**97.0**	30	-	120	
45	Sc	1	102744	1.61	249000	**41.3**	30	-	120	
45	Sc	2	259138	1.23	274900	**94.3**	30	-	120	
74	Ge	1	78245	1.50	197500	**39.6**	30	-	120	
74	Ge	2	423736	0.72	437500	**96.9**	30	-	120	
74	Ge	3	1762497	2.39	1769000	**99.6**	30	-	120	
103	Rh	2	835310	1.87	847200	**98.6**	30	-	120	
103	Rh	3	1596012	1.19	1574000	**101.4**	30	-	120	
165	Ho	3	3088502	0.96	3040000	**101.6**	30	-	120	
175	Lu	3	3359153	0.79	3395000	**98.9**	30	-	120	
209	Bi	3	7169218	0.48	7067000	**101.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\057SMPL.D\057SMPL.D#
Date Acquired: May 28 2010 04:25 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-B SD Vial Number: 2402
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.044**	ug/l	2.20	14.1	450	6	P	
60	**Ni**	2	**712.100**	ug/l	35,605.00	1.4	15000	45	P	
63	**Cu**	2	**2.216**	ug/l	110.80	2.3	15000	45	P	
66	**Zn**	2	**7.021**	ug/l	351.05	5.6	15000	45	P	
78	**Se**	2	**0.522**	ug/l	26.08	29.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6539684	2.08	6852000	**95.4**	30	-	120	
45	Sc	1	103457	1.24	249000	**41.5**	30	-	120	
45	Sc	2	256025	2.45	274900	**93.1**	30	-	120	
74	Ge	1	77410	0.18	197500	**39.2**	30	-	120	
74	Ge	2	414827	1.58	437500	**94.8**	30	-	120	
74	Ge	3	1733318	0.76	1769000	**98.0**	30	-	120	
103	Rh	2	794445	1.48	847200	**93.8**	30	-	120	
103	Rh	3	1531505	1.45	1574000	**97.3**	30	-	120	
165	Ho	3	3033182	0.32	3040000	**99.8**	30	-	120	
175	Lu	3	3342218	1.83	3395000	**98.4**	30	-	120	
209	Bi	3	6876540	0.71	7067000	**97.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\058SMPL.D\058SMPL.D#
Date Acquired: May 28 2010 04:32 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-B Vial Number: 2403
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.199**	ug/l	1.99	1.4	450	6	P	
60	**Ni**	2	**3123.000**	ug/l	31,230.00	0.9	15000	45	A	
63	**Cu**	2	**9.944**	ug/l	99.44	0.8	15000	45	P	
66	**Zn**	2	**32.900**	ug/l	329.00	4.1	15000	45	P	
78	**Se**	2	**0.507**	ug/l	5.07	99.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6144900	0.95	6852000	**89.7**	30	-	120	
45	Sc	1	102663	3.42	249000	**41.2**	30	-	120	
45	Sc	2	255093	0.70	274900	**92.8**	30	-	120	
74	Ge	1	71920	0.22	197500	**36.4**	30	-	120	
74	Ge	2	393131	0.51	437500	**89.9**	30	-	120	
74	Ge	3	1689903	1.00	1769000	**95.5**	30	-	120	
103	Rh	2	748832	1.34	847200	**88.4**	30	-	120	
103	Rh	3	1443973	1.05	1574000	**91.7**	30	-	120	
165	Ho	3	3012791	0.69	3040000	**99.1**	30	-	120	
175	Lu	3	3323215	1.62	3395000	**97.9**	30	-	120	
209	Bi	3	6677450	0.26	7067000	**94.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\059SMPL.D\059SMPL.D#
Date Acquired: May 28 2010 04:38 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-C DU Vial Number: 2404
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.193**	ug/l	1.93	4.4	450	6	P	
60	**Ni**	2	**3157.000**	ug/l	31,570.00	1.0	15000	45	A	
63	**Cu**	2	**9.927**	ug/l	99.27	1.2	15000	45	P	
66	**Zn**	2	**33.600**	ug/l	336.00	0.5	15000	45	P	
78	**Se**	2	**0.016**	ug/l	0.16	2857.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6077527	2.69	6852000	**88.7**	30	-	120	
45	Sc	1	103917	1.06	249000	**41.7**	30	-	120	
45	Sc	2	249696	1.88	274900	**90.8**	30	-	120	
74	Ge	1	73979	0.21	197500	**37.5**	30	-	120	
74	Ge	2	386835	1.72	437500	**88.4**	30	-	120	
74	Ge	3	1657916	0.54	1769000	**93.7**	30	-	120	
103	Rh	2	739969	1.30	847200	**87.3**	30	-	120	
103	Rh	3	1430846	0.92	1574000	**90.9**	30	-	120	
165	Ho	3	2952016	0.65	3040000	**97.1**	30	-	120	
175	Lu	3	3224445	0.78	3395000	**95.0**	30	-	120	
209	Bi	3	6576956	1.28	7067000	**93.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\060SMPL.D\060SMPL.D#
Date Acquired: May 28 2010 04:44 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-D MS Vial Number: 2405
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.957**	ug/l	97.85	2.4	450	6	P	
60	**Ni**	2	**637.300**	ug/l	31,865.00	1.1	15000	45	P	
63	**Cu**	2	**12.170**	ug/l	608.50	1.4	15000	45	P	
66	**Zn**	2	**26.130**	ug/l	1,306.50	2.5	15000	45	P	
78	**Se**	2	**77.390**	ug/l	3,869.50	4.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6396548	1.65	6852000	**93.4**	30	-	120	
45	Sc	1	103443	1.21	249000	**41.5**	30	-	120	
45	Sc	2	247042	0.22	274900	**89.9**	30	-	120	
74	Ge	1	77558	0.30	197500	**39.3**	30	-	120	
74	Ge	2	396623	0.76	437500	**90.7**	30	-	120	
74	Ge	3	1710983	0.16	1769000	**96.7**	30	-	120	
103	Rh	2	769772	1.18	847200	**90.9**	30	-	120	
103	Rh	3	1489213	2.09	1574000	**94.6**	30	-	120	
165	Ho	3	3019133	0.48	3040000	**99.3**	30	-	120	
175	Lu	3	3266530	0.30	3395000	**96.2**	30	-	120	
209	Bi	3	6847565	0.32	7067000	**96.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\061SMPL.D\061SMPL.D#
Date Acquired: May 28 2010 04:50 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-E MSD Vial Number: 2406
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.885**	ug/l	94.25	2.4	450	6	P	
60	**Ni**	2	**635.100**	ug/l	31,755.00	0.7	15000	45	P	
63	**Cu**	2	**12.280**	ug/l	614.00	2.0	15000	45	P	
66	**Zn**	2	**25.550**	ug/l	1,277.50	2.2	15000	45	P	
78	**Se**	2	**81.930**	ug/l	4,096.50	4.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6484482	1.59	6852000	**94.6**	30	-	120	
45	Sc	1	107630	2.33	249000	**43.2**	30	-	120	
45	Sc	2	248856	1.76	274900	**90.5**	30	-	120	
74	Ge	1	81197	1.91	197500	**41.1**	30	-	120	
74	Ge	2	401455	1.71	437500	**91.8**	30	-	120	
74	Ge	3	1716262	1.37	1769000	**97.0**	30	-	120	
103	Rh	2	773729	1.29	847200	**91.3**	30	-	120	
103	Rh	3	1507544	1.47	1574000	**95.8**	30	-	120	
165	Ho	3	3027746	0.73	3040000	**99.6**	30	-	120	
175	Lu	3	3246159	1.14	3395000	**95.6**	30	-	120	
209	Bi	3	6896272	1.22	7067000	**97.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\062SMPL.D\062SMPL.D#
Date Acquired: May 28 2010 04:56 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-B PDS Vial Number: 2407
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.837**	ug/l	91.85	1.2	450	6	P	
60	**Ni**	2	**625.600**	ug/l	31,280.00	0.3	15000	45	P	
63	**Cu**	2	**12.030**	ug/l	601.50	0.1	15000	45	P	
66	**Zn**	2	**25.780**	ug/l	1,289.00	3.2	15000	45	P	
78	**Se**	2	**77.820**	ug/l	3,891.00	2.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6586323	1.08	6852000	**96.1**	30	-	120	
45	Sc	1	106108	1.72	249000	**42.6**	30	-	120	
45	Sc	2	245933	1.16	274900	**89.5**	30	-	120	
74	Ge	1	81834	1.32	197500	**41.4**	30	-	120	
74	Ge	2	394042	0.88	437500	**90.1**	30	-	120	
74	Ge	3	1688021	0.62	1769000	**95.4**	30	-	120	
103	Rh	2	767533	1.28	847200	**90.6**	30	-	120	
103	Rh	3	1485942	0.57	1574000	**94.4**	30	-	120	
165	Ho	3	3012669	1.00	3040000	**99.1**	30	-	120	
175	Lu	3	3244867	1.01	3395000	**95.6**	30	-	120	
209	Bi	3	6799113	0.99	7067000	**96.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\063SMPL.D\063SMPL.D#
Date Acquired: May 28 2010 05:02 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64514/22-A Vial Number: 2408
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.883**	ug/l	94.15	4.9	450	6	P	
60	**Ni**	2	**20.540**	ug/l	1,027.00	3.0	15000	45	P	
63	**Cu**	2	**10.580**	ug/l	529.00	0.6	15000	45	P	
66	**Zn**	2	**20.670**	ug/l	1,033.50	2.4	15000	45	P	
78	**Se**	2	**79.640**	ug/l	3,982.00	2.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6296633	2.34	6852000	**91.9**	30	-	120	
45	Sc	1	98930	0.89	249000	**39.7**	30	-	120	
45	Sc	2	243511	1.20	274900	**88.6**	30	-	120	
74	Ge	1	75595	1.95	197500	**38.3**	30	-	120	
74	Ge	2	397125	1.12	437500	**90.8**	30	-	120	
74	Ge	3	1669186	1.04	1769000	**94.4**	30	-	120	
103	Rh	2	782134	1.42	847200	**92.3**	30	-	120	
103	Rh	3	1499834	0.90	1574000	**95.3**	30	-	120	
165	Ho	3	3008370	1.73	3040000	**99.0**	30	-	120	
175	Lu	3	3261355	1.11	3395000	**96.1**	30	-	120	
209	Bi	3	6862653	1.81	7067000	**97.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\064SMPL.D\064SMPL.D#
Date Acquired: May 28 2010 05:08 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64514/23-A Vial Number: 2409
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.913**	ug/l	95.65	3.7	450	6	P	
60	**Ni**	2	**20.370**	ug/l	1,018.50	0.4	15000	45	P	
63	**Cu**	2	**10.460**	ug/l	523.00	0.8	15000	45	P	
66	**Zn**	2	**20.510**	ug/l	1,025.50	3.7	15000	45	P	
78	**Se**	2	**82.760**	ug/l	4,138.00	5.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6254347	0.40	6852000	**91.3**	30	-	120	
45	Sc	1	100080	0.62	249000	**40.2**	30	-	120	
45	Sc	2	247817	0.62	274900	**90.1**	30	-	120	
74	Ge	1	76246	1.37	197500	**38.6**	30	-	120	
74	Ge	2	403604	0.61	437500	**92.3**	30	-	120	
74	Ge	3	1695804	1.29	1769000	**95.9**	30	-	120	
103	Rh	2	789868	0.69	847200	**93.2**	30	-	120	
103	Rh	3	1504731	1.65	1574000	**95.6**	30	-	120	
165	Ho	3	3032918	0.32	3040000	**99.8**	30	-	120	
175	Lu	3	3322615	0.54	3395000	**97.9**	30	-	120	
209	Bi	3	6888975	0.72	7067000	**97.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\065SMPL.D\065SMPL.D#
Date Acquired: May 28 2010 05:14 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64514/24-A Vial Number: 2410
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**85.730**	ug/l	1,714.60	1.8	450	6	P	
60	**Ni**	2	**98.120**	ug/l	1,962.40	1.2	15000	45	P	
63	**Cu**	2	**37.900**	ug/l	758.00	2.3	15000	45	P	
66	**Zn**	2	**198.400**	ug/l	3,968.00	2.3	15000	45	P	
78	**Se**	2	**85.110**	ug/l	1,702.20	6.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6491803	1.47	6852000	**94.7**	30	-	120	
45	Sc	1	101772	0.19	249000	**40.9**	30	-	120	
45	Sc	2	247464	0.94	274900	**90.0**	30	-	120	
74	Ge	1	77782	1.61	197500	**39.4**	30	-	120	
74	Ge	2	396143	0.98	437500	**90.5**	30	-	120	
74	Ge	3	1699757	1.06	1769000	**96.1**	30	-	120	
103	Rh	2	765388	0.66	847200	**90.3**	30	-	120	
103	Rh	3	1460718	0.87	1574000	**92.8**	30	-	120	
165	Ho	3	3013193	1.14	3040000	**99.1**	30	-	120	
175	Lu	3	3271972	2.00	3395000	**96.4**	30	-	120	
209	Bi	3	6746230	0.98	7067000	**95.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\066SMPL.D\066SMPL.D#
Date Acquired: May 28 2010 05:21 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.360**	ug/l	49.36	0.8	450	6	P	
60	**Ni**	2	**51.660**	ug/l	51.66	0.8	15000	45	P	
63	**Cu**	2	**52.550**	ug/l	52.55	0.2	15000	45	P	
66	**Zn**	2	**51.520**	ug/l	51.52	2.1	15000	45	P	
78	**Se**	2	**48.910**	ug/l	48.91	9.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6375232	0.85	6852000	**93.0**	30	-	120	
45	Sc	1	96058	0.35	249000	**38.6**	30	-	120	
45	Sc	2	244012	0.38	274900	**88.8**	30	-	120	
74	Ge	1	72362	0.77	197500	**36.6**	30	-	120	
74	Ge	2	396434	1.78	437500	**90.6**	30	-	120	
74	Ge	3	1700544	1.73	1769000	**96.1**	30	-	120	
103	Rh	2	766299	0.43	847200	**90.5**	30	-	120	
103	Rh	3	1479376	1.29	1574000	**94.0**	30	-	120	
165	Ho	3	3006803	2.04	3040000	**98.9**	30	-	120	
175	Lu	3	3274611	1.47	3395000	**96.5**	30	-	120	
209	Bi	3	6784015	1.04	7067000	**96.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\067SMPL.D\067SMPL.D#
Date Acquired: May 28 2010 05:27 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.027**	ug/l	0.03	29.9	450	6	P	
60	**Ni**	2	**0.102**	ug/l	0.10	51.6	15000	45	P	
63	**Cu**	2	**0.031**	ug/l	0.03	24.9	15000	45	P	
66	**Zn**	2	**0.276**	ug/l	0.28	18.4	15000	45	P	
78	**Se**	2	**0.150**	ug/l	0.15	420.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6584063	2.96	6852000	**96.1**	30	-	120	
45	Sc	1	91774	0.44	249000	**36.9**	30	-	120	
45	Sc	2	250461	0.54	274900	**91.1**	30	-	120	
74	Ge	1	70087	2.03	197500	**35.5**	30	-	120	
74	Ge	2	404180	1.31	437500	**92.4**	30	-	120	
74	Ge	3	1688701	1.12	1769000	**95.5**	30	-	120	
103	Rh	2	798473	2.13	847200	**94.2**	30	-	120	
103	Rh	3	1508303	1.28	1574000	**95.8**	30	-	120	
165	Ho	3	3005392	0.18	3040000	**98.9**	30	-	120	
175	Lu	3	3296416	0.71	3395000	**97.1**	30	-	120	
209	Bi	3	7004226	0.51	7067000	**99.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\068SMPL.D\068SMPL.D#
Date Acquired: May 28 2010 05:33 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-19-B Vial Number: 2501
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.010**	ug/l	0.10	16.7	450	6	P	
60	**Ni**	2	**4680.000**	ug/l	46,800.00	0.7	15000	45	A	
63	**Cu**	2	**27.730**	ug/l	277.30	0.7	15000	45	P	
66	**Zn**	2	**40.650**	ug/l	406.50	2.0	15000	45	P	
78	**Se**	2	**0.049**	ug/l	0.49	558.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5699321	2.40	6852000	**83.2**	30	-	120	
45	Sc	1	95417	0.87	249000	**38.3**	30	-	120	
45	Sc	2	263520	0.55	274900	**95.9**	30	-	120	
74	Ge	1	61174	1.23	197500	**31.0**	30	-	120	
74	Ge	2	370260	1.31	437500	**84.6**	30	-	120	
74	Ge	3	1552676	1.30	1769000	**87.8**	30	-	120	
103	Rh	2	685565	0.93	847200	**80.9**	30	-	120	
103	Rh	3	1329328	1.25	1574000	**84.5**	30	-	120	
165	Ho	3	2838977	1.25	3040000	**93.4**	30	-	120	
175	Lu	3	3096746	0.77	3395000	**91.2**	30	-	120	
209	Bi	3	5932724	1.21	7067000	**83.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\069SMPL.D\069SMPL.D#
Date Acquired: May 28 2010 05:39 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-20-B Vial Number: 2502
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.03	59.3	450	6	P	
60	**Ni**	2	**3742.000**	ug/l	37,420.00	1.1	15000	45	A	
63	**Cu**	2	**9.070**	ug/l	90.70	2.0	15000	45	P	
66	**Zn**	2	**49.290**	ug/l	492.90	1.7	15000	45	P	
78	**Se**	2	**0.229**	ug/l	2.29	176.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5520700	0.74	6852000	**80.6**	30	-	120	
45	Sc	1	86635	0.68	249000	**34.8**	30	-	120	
45	Sc	2	255377	1.17	274900	**92.9**	30	-	120	
74	Ge	1	55648	2.02	197500	**28.2**	30	-	120	**IS Fail**
74	Ge	2	369055	1.06	437500	**84.4**	30	-	120	
74	Ge	3	1558203	0.57	1769000	**88.1**	30	-	120	
103	Rh	2	692258	1.22	847200	**81.7**	30	-	120	
103	Rh	3	1337882	1.22	1574000	**85.0**	30	-	120	
165	Ho	3	2854654	0.67	3040000	**93.9**	30	-	120	
175	Lu	3	3123659	0.47	3395000	**92.0**	30	-	120	
209	Bi	3	5992903	0.87	7067000	**84.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\070SMPL.D\070SMPL.D#
Date Acquired: May 28 2010 05:45 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-21-B Vial Number: 2503
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.892**	ug/l	8.92	0.6	450	6	P	
60	**Ni**	2	**464.000**	ug/l	4,640.00	0.3	15000	45	P	
63	**Cu**	2	**51.060**	ug/l	510.60	1.9	15000	45	P	
66	**Zn**	2	**93.020**	ug/l	930.20	0.2	15000	45	P	
78	**Se**	2	**0.622**	ug/l	6.22	206.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6334126	1.39	6852000	**92.4**	30	-	120	
45	Sc	1	79241	1.48	249000	**31.8**	30	-	120	
45	Sc	2	253538	1.46	274900	**92.2**	30	-	120	
74	Ge	1	52802	0.63	197500	**26.7**	30	-	120	**IS Fail**
74	Ge	2	386403	1.03	437500	**88.3**	30	-	120	
74	Ge	3	1676619	1.27	1769000	**94.8**	30	-	120	
103	Rh	2	734609	1.54	847200	**86.7**	30	-	120	
103	Rh	3	1437957	0.52	1574000	**91.4**	30	-	120	
165	Ho	3	2946070	0.62	3040000	**96.9**	30	-	120	
175	Lu	3	3263389	0.74	3395000	**96.1**	30	-	120	
209	Bi	3	6444422	0.54	7067000	**91.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\071SMPL.D\071SMPL.D#
Date Acquired: May 28 2010 05:51 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-1-B Vial Number: 2504
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.061**	ug/l	0.61	2.8	450	6	P	
60	**Ni**	2	**3233.000**	ug/l	32,330.00	0.6	15000	45	A	
63	**Cu**	2	**7.916**	ug/l	79.16	1.3	15000	45	P	
66	**Zn**	2	**44.560**	ug/l	445.60	2.6	15000	45	P	
78	**Se**	2	**0.060**	ug/l	0.60	903.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5904920	1.03	6852000	**86.2**	30	-	120	
45	Sc	1	76497	0.29	249000	**30.7**	30	-	120	
45	Sc	2	248149	2.14	274900	**90.3**	30	-	120	
74	Ge	1	50604	0.47	197500	**25.6**	30	-	120	**IS Fail**
74	Ge	2	365358	0.50	437500	**83.5**	30	-	120	
74	Ge	3	1593766	1.47	1769000	**90.1**	30	-	120	
103	Rh	2	688483	1.29	847200	**81.3**	30	-	120	
103	Rh	3	1370545	0.38	1574000	**87.1**	30	-	120	
165	Ho	3	2864663	0.96	3040000	**94.2**	30	-	120	
175	Lu	3	3134299	0.90	3395000	**92.3**	30	-	120	
209	Bi	3	6071105	0.90	7067000	**85.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\072SMPL.D\072SMPL.D#
Date Acquired: May 28 2010 05:57 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-2-B Vial Number: 2505
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.863**	ug/l	8.63	1.9	450	6	P	
60	**Ni**	2	**556.700**	ug/l	5,567.00	0.8	15000	45	P	
63	**Cu**	2	**308.300**	ug/l	3,083.00	0.5	15000	45	P	
66	**Zn**	2	**353.600**	ug/l	3,536.00	0.6	15000	45	P	
78	**Se**	2	**1.469**	ug/l	14.69	62.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6700671	0.71	6852000	**97.8**	30	-	120	
45	Sc	1	72128	1.11	249000	**29.0**	30	-	120	**IS Fail**
45	Sc	2	262666	0.28	274900	**95.5**	30	-	120	
74	Ge	1	48224	1.76	197500	**24.4**	30	-	120	**IS Fail**
74	Ge	2	387468	1.22	437500	**88.6**	30	-	120	
74	Ge	3	1745382	0.93	1769000	**98.7**	30	-	120	
103	Rh	2	736270	1.60	847200	**86.9**	30	-	120	
103	Rh	3	1498793	0.72	1574000	**95.2**	30	-	120	
165	Ho	3	3049019	0.33	3040000	**100.3**	30	-	120	
175	Lu	3	3295420	0.25	3395000	**97.1**	30	-	120	
209	Bi	3	6562716	1.06	7067000	**92.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\073SMPL.D\073SMPL.D#
Date Acquired: May 28 2010 06:03 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-3-B Vial Number: 2506
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.995**	ug/l	9.95	1.4	450	6	P	
60	**Ni**	2	**1292.000**	ug/l	12,920.00	1.5	15000	45	A	
63	**Cu**	2	**102.500**	ug/l	1,025.00	1.1	15000	45	P	
66	**Zn**	2	**180.100**	ug/l	1,801.00	1.2	15000	45	P	
78	**Se**	2	**1.105**	ug/l	11.05	33.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6629905	0.75	6852000	**96.8**	30	-	120	
45	Sc	1	70516	1.82	249000	**28.3**	30	-	120	**IS Fail**
45	Sc	2	264528	1.09	274900	**96.2**	30	-	120	
74	Ge	1	45323	1.77	197500	**22.9**	30	-	120	**IS Fail**
74	Ge	2	390945	0.98	437500	**89.4**	30	-	120	
74	Ge	3	1716809	1.08	1769000	**97.0**	30	-	120	
103	Rh	2	745781	1.68	847200	**88.0**	30	-	120	
103	Rh	3	1481213	1.18	1574000	**94.1**	30	-	120	
165	Ho	3	2971081	0.88	3040000	**97.7**	30	-	120	
175	Lu	3	3252769	0.99	3395000	**95.8**	30	-	120	
209	Bi	3	6546621	0.95	7067000	**92.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\074SMPL.D\074SMPL.D#
Date Acquired: May 28 2010 06:09 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-4-B Vial Number: 2507
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.031**	ug/l	10.31	2.2	450	6	P	
60	**Ni**	2	**123.200**	ug/l	1,232.00	0.8	15000	45	P	
63	**Cu**	2	**55.070**	ug/l	550.70	1.4	15000	45	P	
66	**Zn**	2	**121.800**	ug/l	1,218.00	0.8	15000	45	P	
78	**Se**	2	**1.106**	ug/l	11.06	115.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6517258	1.20	6852000	**95.1**	30	-	120	
45	Sc	1	68689	1.81	249000	**27.6**	30	-	120	**IS Fail**
45	Sc	2	258465	1.34	274900	**94.0**	30	-	120	
74	Ge	1	45574	0.42	197500	**23.1**	30	-	120	**IS Fail**
74	Ge	2	390031	0.65	437500	**89.2**	30	-	120	
74	Ge	3	1691504	0.78	1769000	**95.6**	30	-	120	
103	Rh	2	745003	0.62	847200	**87.9**	30	-	120	
103	Rh	3	1463268	0.34	1574000	**93.0**	30	-	120	
165	Ho	3	2967739	1.50	3040000	**97.6**	30	-	120	
175	Lu	3	3251644	1.56	3395000	**95.8**	30	-	120	
209	Bi	3	6509133	0.85	7067000	**92.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\075SMPL.D\075SMPL.D#
Date Acquired: May 28 2010 06:15 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-5-B Vial Number: 2508
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.600**	ug/l	6.00	7.4	450	6	P	
60	**Ni**	2	**2637.000**	ug/l	26,370.00	1.1	15000	45	A	
63	**Cu**	2	**50.330**	ug/l	503.30	1.3	15000	45	P	
66	**Zn**	2	**110.800**	ug/l	1,108.00	0.6	15000	45	P	
78	**Se**	2	**0.214**	ug/l	2.14	74.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5935311	0.42	6852000	**86.6**	30	-	120	
45	Sc	1	72778	0.15	249000	**29.2**	30	-	120	**IS Fail**
45	Sc	2	259598	0.22	274900	**94.4**	30	-	120	
74	Ge	1	46280	2.53	197500	**23.4**	30	-	120	**IS Fail**
74	Ge	2	375706	1.16	437500	**85.9**	30	-	120	
74	Ge	3	1613272	1.66	1769000	**91.2**	30	-	120	
103	Rh	2	704648	1.29	847200	**83.2**	30	-	120	
103	Rh	3	1400288	0.40	1574000	**89.0**	30	-	120	
165	Ho	3	2861369	1.26	3040000	**94.1**	30	-	120	
175	Lu	3	3142963	1.13	3395000	**92.6**	30	-	120	
209	Bi	3	6030387	1.15	7067000	**85.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\076SMPL.D\076SMPL.D#
Date Acquired: May 28 2010 06:21 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-6-B Vial Number: 2509
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.870**	ug/l	8.70	5.6	450	6	P	
60	**Ni**	2	**4858.000**	ug/l	48,580.00	1.6	15000	45	A	
63	**Cu**	2	**35.060**	ug/l	350.60	1.2	15000	45	P	
66	**Zn**	2	**108.100**	ug/l	1,081.00	0.7	15000	45	P	
78	**Se**	2	**0.972**	ug/l	9.72	40.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5951190	0.92	6852000	**86.9**	30	-	120	
45	Sc	1	65449	1.20	249000	**26.3**	30	-	120	**IS Fail**
45	Sc	2	278083	1.21	274900	**101.2**	30	-	120	
74	Ge	1	39329	4.16	197500	**19.9**	30	-	120	**IS Fail**
74	Ge	2	383252	0.33	437500	**87.6**	30	-	120	
74	Ge	3	1682476	0.73	1769000	**95.1**	30	-	120	
103	Rh	2	718017	0.98	847200	**84.8**	30	-	120	
103	Rh	3	1437001	0.63	1574000	**91.3**	30	-	120	
165	Ho	3	2932154	1.04	3040000	**96.5**	30	-	120	
175	Lu	3	3208415	0.42	3395000	**94.5**	30	-	120	
209	Bi	3	6097560	1.39	7067000	**86.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\077SMPL.D\077SMPL.D#
Date Acquired: May 28 2010 06:28 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-7-B Vial Number: 2510
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.015**	ug/l	10.15	5.1	450	6	P	
60	**Ni**	2	**2506.000**	ug/l	25,060.00	1.1	15000	45	A	
63	**Cu**	2	**70.130**	ug/l	701.30	1.4	15000	45	P	
66	**Zn**	2	**154.300**	ug/l	1,543.00	0.8	15000	45	P	
78	**Se**	2	**1.207**	ug/l	12.07	65.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6248976	1.13	6852000	**91.2**	30	-	120	
45	Sc	1	54063	2.58	249000	**21.7**	30	-	120	**IS Fail**
45	Sc	2	271620	1.40	274900	**98.8**	30	-	120	
74	Ge	1	32687	6.07	197500	**16.6**	30	-	120	**IS Fail**
74	Ge	2	388007	1.01	437500	**88.7**	30	-	120	
74	Ge	3	1693095	0.39	1769000	**95.7**	30	-	120	
103	Rh	2	729235	2.00	847200	**86.1**	30	-	120	
103	Rh	3	1477116	0.81	1574000	**93.8**	30	-	120	
165	Ho	3	2983836	1.19	3040000	**98.2**	30	-	120	
175	Lu	3	3210221	0.64	3395000	**94.6**	30	-	120	
209	Bi	3	6220862	1.41	7067000	**88.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\078SMPL.D\078SMPL.D#
Date Acquired: May 28 2010 06:34 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.220**	ug/l	49.22	2.4	450	6	P	
60	**Ni**	2	**53.720**	ug/l	53.72	0.6	15000	45	P	
63	**Cu**	2	**52.910**	ug/l	52.91	0.5	15000	45	P	
66	**Zn**	2	**51.490**	ug/l	51.49	1.4	15000	45	P	
78	**Se**	2	**47.920**	ug/l	47.92	6.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6260111	1.92	6852000	**91.4**	30	-	120	
45	Sc	1	56403	2.72	249000	**22.7**	30	-	120	**IS Fail**
45	Sc	2	238529	0.75	274900	**86.8**	30	-	120	
74	Ge	1	39433	0.85	197500	**20.0**	30	-	120	**IS Fail**
74	Ge	2	390542	0.97	437500	**89.3**	30	-	120	
74	Ge	3	1725633	0.97	1769000	**97.5**	30	-	120	
103	Rh	2	760116	0.39	847200	**89.7**	30	-	120	
103	Rh	3	1503851	0.24	1574000	**95.5**	30	-	120	
165	Ho	3	3007237	0.20	3040000	**98.9**	30	-	120	
175	Lu	3	3292818	0.84	3395000	**97.0**	30	-	120	
209	Bi	3	6758967	0.69	7067000	**95.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\079SMPL.D\079SMPL.D#
Date Acquired: May 28 2010 06:40 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.018**	ug/l	0.02	23.3	450	6	P	
60	**Ni**	2	**0.486**	ug/l	0.49	6.8	15000	45	P	
63	**Cu**	2	**0.047**	ug/l	0.05	56.3	15000	45	P	
66	**Zn**	2	**0.261**	ug/l	0.26	9.8	15000	45	P	
78	**Se**	2	**-0.093**	ug/l	-0.09	152.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6057252	2.10	6852000	**88.4**	30	-	120	
45	Sc	1	60977	2.97	249000	**24.5**	30	-	120	**IS Fail**
45	Sc	2	241545	0.54	274900	**87.9**	30	-	120	
74	Ge	1	44510	1.83	197500	**22.5**	30	-	120	**IS Fail**
74	Ge	2	399340	1.57	437500	**91.3**	30	-	120	
74	Ge	3	1682463	1.12	1769000	**95.1**	30	-	120	
103	Rh	2	791098	0.77	847200	**93.4**	30	-	120	
103	Rh	3	1494773	2.30	1574000	**95.0**	30	-	120	
165	Ho	3	2983307	0.69	3040000	**98.1**	30	-	120	
175	Lu	3	3290021	2.08	3395000	**96.9**	30	-	120	
209	Bi	3	6940340	0.81	7067000	**98.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\080SMPL.D\080SMPL.D#
Date Acquired: May 28 2010 06:46 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-8-B Vial Number: 3101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.268**	ug/l	12.68	1.9	450	6	P	
60	**Ni**	2	**2360.000**	ug/l	23,600.00	1.8	15000	45	A	
63	**Cu**	2	**70.210**	ug/l	702.10	0.4	15000	45	P	
66	**Zn**	2	**140.200**	ug/l	1,402.00	0.5	15000	45	P	
78	**Se**	2	**0.946**	ug/l	9.46	56.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6201590	0.56	6852000	**90.5**	30	-	120	
45	Sc	1	67691	0.62	249000	**27.2**	30	-	120	**IS Fail**
45	Sc	2	272189	1.23	274900	**99.0**	30	-	120	
74	Ge	1	42339	1.23	197500	**21.4**	30	-	120	**IS Fail**
74	Ge	2	388991	0.94	437500	**88.9**	30	-	120	
74	Ge	3	1739492	0.44	1769000	**98.3**	30	-	120	
103	Rh	2	732315	0.38	847200	**86.4**	30	-	120	
103	Rh	3	1462500	0.92	1574000	**92.9**	30	-	120	
165	Ho	3	3022663	0.25	3040000	**99.4**	30	-	120	
175	Lu	3	3269136	0.75	3395000	**96.3**	30	-	120	
209	Bi	3	6360283	0.83	7067000	**90.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\081SMPL.D\081SMPL.D#
Date Acquired: May 28 2010 06:52 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-9-A Vial Number: 3102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.355**	ug/l	13.55	2.0	450	6	P	
60	**Ni**	2	**584.500**	ug/l	5,845.00	0.5	15000	45	P	
63	**Cu**	2	**60.100**	ug/l	601.00	0.2	15000	45	P	
66	**Zn**	2	**125.600**	ug/l	1,256.00	2.5	15000	45	P	
78	**Se**	2	**0.353**	ug/l	3.53	112.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6238944	1.39	6852000	**91.1**	30	-	120	
45	Sc	1	57049	1.57	249000	**22.9**	30	-	120	**IS Fail**
45	Sc	2	262920	1.48	274900	**95.6**	30	-	120	
74	Ge	1	36126	2.54	197500	**18.3**	30	-	120	**IS Fail**
74	Ge	2	388334	1.92	437500	**88.8**	30	-	120	
74	Ge	3	1660920	0.65	1769000	**93.9**	30	-	120	
103	Rh	2	745981	1.39	847200	**88.1**	30	-	120	
103	Rh	3	1438159	0.67	1574000	**91.4**	30	-	120	
165	Ho	3	2962077	0.19	3040000	**97.4**	30	-	120	
175	Lu	3	3216173	0.50	3395000	**94.7**	30	-	120	
209	Bi	3	6462683	1.38	7067000	**91.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\082SMPL.D\082SMPL.D#
Date Acquired: May 28 2010 06:58 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-10-A Vial Number: 3103
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.037**	ug/l	10.37	1.2	450	6	P	
60	**Ni**	2	**541.100**	ug/l	5,411.00	1.3	15000	45	P	
63	**Cu**	2	**76.190**	ug/l	761.90	1.3	15000	45	P	
66	**Zn**	2	**125.800**	ug/l	1,258.00	2.1	15000	45	P	
78	**Se**	2	**1.597**	ug/l	15.97	15.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6259212	0.81	6852000	**91.3**	30	-	120	
45	Sc	1	56228	1.38	249000	**22.6**	30	-	120	**IS Fail**
45	Sc	2	254262	1.66	274900	**92.5**	30	-	120	
74	Ge	1	36414	3.55	197500	**18.4**	30	-	120	**IS Fail**
74	Ge	2	379784	2.19	437500	**86.8**	30	-	120	
74	Ge	3	1662880	1.45	1769000	**94.0**	30	-	120	
103	Rh	2	724906	1.11	847200	**85.6**	30	-	120	
103	Rh	3	1427894	1.12	1574000	**90.7**	30	-	120	
165	Ho	3	2946787	0.86	3040000	**96.9**	30	-	120	
175	Lu	3	3239531	0.66	3395000	**95.4**	30	-	120	
209	Bi	3	6406460	0.02	7067000	**90.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\083SMPL.D\083SMPL.D#
Date Acquired: May 28 2010 07:04 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-11-B Vial Number: 3104
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.043**	ug/l	10.43	1.6	450	6	P	
60	**Ni**	2	**1928.000**	ug/l	19,280.00	0.8	15000	45	A	
63	**Cu**	2	**74.150**	ug/l	741.50	2.2	15000	45	P	
66	**Zn**	2	**134.100**	ug/l	1,341.00	2.3	15000	45	P	
78	**Se**	2	**0.457**	ug/l	4.57	88.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6093611	1.03	6852000	**88.9**	30	-	120	
45	Sc	1	55235	0.44	249000	**22.2**	30	-	120	**IS Fail**
45	Sc	2	260475	0.94	274900	**94.8**	30	-	120	
74	Ge	1	34486	2.53	197500	**17.5**	30	-	120	**IS Fail**
74	Ge	2	382660	0.68	437500	**87.5**	30	-	120	
74	Ge	3	1704007	1.11	1769000	**96.3**	30	-	120	
103	Rh	2	726875	1.42	847200	**85.8**	30	-	120	
103	Rh	3	1443580	1.06	1574000	**91.7**	30	-	120	
165	Ho	3	2991074	0.30	3040000	**98.4**	30	-	120	
175	Lu	3	3265039	1.04	3395000	**96.2**	30	-	120	
209	Bi	3	6319258	0.25	7067000	**89.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\084SMPL.D\084SMPL.D#
Date Acquired: May 28 2010 07:10 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-12-A Vial Number: 3105
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.409**	ug/l	4.09	1.3	450	6	P	
60	**Ni**	2	**2823.000**	ug/l	28,230.00	2.3	15000	45	A	
63	**Cu**	2	**66.540**	ug/l	665.40	2.0	15000	45	P	
66	**Zn**	2	**80.470**	ug/l	804.70	1.5	15000	45	P	
78	**Se**	2	**0.206**	ug/l	2.06	68.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5902478	1.60	6852000	**86.1**	30	-	120	
45	Sc	1	51281	0.83	249000	**20.6**	30	-	120	**IS Fail**
45	Sc	2	263991	1.27	274900	**96.0**	30	-	120	
74	Ge	1	30852	1.01	197500	**15.6**	30	-	120	**IS Fail**
74	Ge	2	378015	1.53	437500	**86.4**	30	-	120	
74	Ge	3	1657885	0.84	1769000	**93.7**	30	-	120	
103	Rh	2	714263	2.00	847200	**84.3**	30	-	120	
103	Rh	3	1440409	0.44	1574000	**91.5**	30	-	120	
165	Ho	3	2970264	0.67	3040000	**97.7**	30	-	120	
175	Lu	3	3245016	1.39	3395000	**95.6**	30	-	120	
209	Bi	3	6244226	0.30	7067000	**88.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\085SMPL.D\085SMPL.D#
Date Acquired: May 28 2010 07:16 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-13-B Vial Number: 3106
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.867**	ug/l	8.67	5.2	450	6	P	
60	**Ni**	2	**2433.000**	ug/l	24,330.00	0.4	15000	45	A	
63	**Cu**	2	**62.240**	ug/l	622.40	1.0	15000	45	P	
66	**Zn**	2	**134.700**	ug/l	1,347.00	1.5	15000	45	P	
78	**Se**	2	**1.355**	ug/l	13.55	78.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5929311	0.82	6852000	**86.5**	30	-	120	
45	Sc	1	49768	0.80	249000	**20.0**	30	-	120	**IS Fail**
45	Sc	2	259621	0.37	274900	**94.4**	30	-	120	
74	Ge	1	30538	0.77	197500	**15.5**	30	-	120	**IS Fail**
74	Ge	2	376998	0.63	437500	**86.2**	30	-	120	
74	Ge	3	1648660	0.90	1769000	**93.2**	30	-	120	
103	Rh	2	726739	0.39	847200	**85.8**	30	-	120	
103	Rh	3	1413659	0.94	1574000	**89.8**	30	-	120	
165	Ho	3	2908795	1.72	3040000	**95.7**	30	-	120	
175	Lu	3	3191475	0.47	3395000	**94.0**	30	-	120	
209	Bi	3	6334268	0.56	7067000	**89.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\086SMPL.D\086SMPL.D#
Date Acquired: May 28 2010 07:22 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**48.200**	ug/l	48.20	0.6	450	6	P	
60	**Ni**	2	**53.690**	ug/l	53.69	2.7	15000	45	P	
63	**Cu**	2	**53.370**	ug/l	53.37	1.6	15000	45	P	
66	**Zn**	2	**52.790**	ug/l	52.79	0.8	15000	45	P	
78	**Se**	2	**50.670**	ug/l	50.67	7.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6144418	0.18	6852000	**89.7**	30	-	120	
45	Sc	1	50304	2.79	249000	**20.2**	30	-	120	**IS Fail**
45	Sc	2	231495	0.74	274900	**84.2**	30	-	120	
74	Ge	1	35388	2.00	197500	**17.9**	30	-	120	**IS Fail**
74	Ge	2	383574	1.23	437500	**87.7**	30	-	120	
74	Ge	3	1668919	0.76	1769000	**94.3**	30	-	120	
103	Rh	2	752756	0.60	847200	**88.9**	30	-	120	
103	Rh	3	1462007	1.45	1574000	**92.9**	30	-	120	
165	Ho	3	3023466	1.40	3040000	**99.5**	30	-	120	
175	Lu	3	3322933	0.87	3395000	**97.9**	30	-	120	
209	Bi	3	6794372	0.69	7067000	**96.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\087SMPL.D\087SMPL.D#
Date Acquired: May 28 2010 07:29 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.017**	ug/l	0.02	12.8	450	6	P	
60	**Ni**	2	**0.412**	ug/l	0.41	17.9	15000	45	P	
63	**Cu**	2	**0.050**	ug/l	0.05	36.6	15000	45	P	
66	**Zn**	2	**0.202**	ug/l	0.20	27.2	15000	45	P	
78	**Se**	2	**-0.247**	ug/l	-0.25	180.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5895512	3.19	6852000	**86.0**	30	-	120	
45	Sc	1	55107	1.14	249000	**22.1**	30	-	120	**IS Fail**
45	Sc	2	237307	1.25	274900	**86.3**	30	-	120	
74	Ge	1	39543	0.63	197500	**20.0**	30	-	120	**IS Fail**
74	Ge	2	390955	1.04	437500	**89.4**	30	-	120	
74	Ge	3	1652299	0.57	1769000	**93.4**	30	-	120	
103	Rh	2	779757	0.68	847200	**92.0**	30	-	120	
103	Rh	3	1479446	1.52	1574000	**94.0**	30	-	120	
165	Ho	3	2988885	0.85	3040000	**98.3**	30	-	120	
175	Lu	3	3276155	1.97	3395000	**96.5**	30	-	120	
209	Bi	3	6901166	1.15	7067000	**97.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\088SMPL.D\088SMPL.D#
Date Acquired: May 28 2010 07:35 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64499/19-A Vial Number: 3201
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.00	4.2	450	6	P	
60	**Ni**	2	**0.114**	ug/l	0.11	13.3	15000	45	P	
63	**Cu**	2	**0.015**	ug/l	0.01	77.9	15000	45	P	
66	**Zn**	2	**0.028**	ug/l	0.03	123.2	15000	45	P	
78	**Se**	2	**0.002**	ug/l	0.00	14817.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5835541	1.82	6852000	**85.2**	30	-	120	
45	Sc	1	57394	2.85	249000	**23.0**	30	-	120	**IS Fail**
45	Sc	2	237275	0.31	274900	**86.3**	30	-	120	
74	Ge	1	41466	2.14	197500	**21.0**	30	-	120	**IS Fail**
74	Ge	2	393602	1.27	437500	**90.0**	30	-	120	
74	Ge	3	1651321	1.57	1769000	**93.3**	30	-	120	
103	Rh	2	787887	1.10	847200	**93.0**	30	-	120	
103	Rh	3	1491401	0.38	1574000	**94.8**	30	-	120	
165	Ho	3	3014122	1.18	3040000	**99.1**	30	-	120	
175	Lu	3	3287048	0.40	3395000	**96.8**	30	-	120	
209	Bi	3	6987587	0.38	7067000	**98.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\089SMPL.D\089SMPL.D#
Date Acquired: May 28 2010 07:41 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-E SD Vial Number: 3202
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.000**	ug/l	0.00	869.7	450	6	P	
60	**Ni**	2	**0.218**	ug/l	1.09	32.5	15000	45	P	
63	**Cu**	2	**0.066**	ug/l	0.33	5.1	15000	45	P	
66	**Zn**	2	**0.271**	ug/l	1.35	19.3	15000	45	P	
78	**Se**	2	**-0.084**	ug/l	-0.42	350.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5842976	1.02	6852000	**85.3**	30	-	120	
45	Sc	1	61429	1.68	249000	**24.7**	30	-	120	**IS Fail**
45	Sc	2	236583	0.54	274900	**86.1**	30	-	120	
74	Ge	1	44273	0.44	197500	**22.4**	30	-	120	**IS Fail**
74	Ge	2	394839	1.17	437500	**90.2**	30	-	120	
74	Ge	3	1670008	2.24	1769000	**94.4**	30	-	120	
103	Rh	2	779431	1.99	847200	**92.0**	30	-	120	
103	Rh	3	1500061	1.81	1574000	**95.3**	30	-	120	
165	Ho	3	3053922	0.56	3040000	**100.5**	30	-	120	
175	Lu	3	3329271	0.92	3395000	**98.1**	30	-	120	
209	Bi	3	6930660	1.24	7067000	**98.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\090SMPL.D\090SMPL.D#
Date Acquired: May 28 2010 07:47 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-E Vial Number: 3203
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.000**	ug/l	0.00	413.2	450	6	P	
60	**Ni**	2	**1.206**	ug/l	1.21	10.7	15000	45	P	
63	**Cu**	2	**0.448**	ug/l	0.45	3.9	15000	45	P	
66	**Zn**	2	**9.300**	ug/l	9.30	12.3	15000	45	P	
78	**Se**	2	**0.057**	ug/l	0.06	991.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5657028	0.68	6852000	**82.6**	30	-	120	
45	Sc	1	57615	1.95	249000	**23.1**	30	-	120	**IS Fail**
45	Sc	2	230279	1.05	274900	**83.8**	30	-	120	
74	Ge	1	42908	2.47	197500	**21.7**	30	-	120	**IS Fail**
74	Ge	2	406948	1.22	437500	**93.0**	30	-	120	
74	Ge	3	1736066	0.48	1769000	**98.1**	30	-	120	
103	Rh	2	724596	1.60	847200	**85.5**	30	-	120	
103	Rh	3	1388638	0.83	1574000	**88.2**	30	-	120	
165	Ho	3	2934400	0.75	3040000	**96.5**	30	-	120	
175	Lu	3	3195435	1.17	3395000	**94.1**	30	-	120	
209	Bi	3	6523066	1.02	7067000	**92.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\091SMPL.D\091SMPL.D#
Date Acquired: May 28 2010 07:53 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-F DU Vial Number: 3204
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	122.4	450	6	P	
60	**Ni**	2	**1.216**	ug/l	1.22	16.8	15000	45	P	
63	**Cu**	2	**0.415**	ug/l	0.41	6.8	15000	45	P	
66	**Zn**	2	**2.012**	ug/l	2.01	3.1	15000	45	P	
78	**Se**	2	**-0.269**	ug/l	-0.27	239.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5457596	1.76	6852000	**79.6**	30	-	120	
45	Sc	1	55177	1.77	249000	**22.2**	30	-	120	**IS Fail**
45	Sc	2	231056	0.65	274900	**84.1**	30	-	120	
74	Ge	1	41129	1.63	197500	**20.8**	30	-	120	**IS Fail**
74	Ge	2	407134	0.68	437500	**93.1**	30	-	120	
74	Ge	3	1728010	0.57	1769000	**97.7**	30	-	120	
103	Rh	2	731990	0.43	847200	**86.4**	30	-	120	
103	Rh	3	1386805	0.91	1574000	**88.1**	30	-	120	
165	Ho	3	2969429	0.26	3040000	**97.7**	30	-	120	
175	Lu	3	3226570	0.58	3395000	**95.0**	30	-	120	
209	Bi	3	6576926	0.37	7067000	**93.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\092SMPL.D\092SMPL.D#
Date Acquired: May 28 2010 07:59 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-G MS Vial Number: 3205
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.946**	ug/l	97.30	2.9	450	6	P	
60	**Ni**	2	**20.760**	ug/l	1,038.00	5.5	15000	45	P	
63	**Cu**	2	**10.590**	ug/l	529.50	1.3	15000	45	P	
66	**Zn**	2	**20.850**	ug/l	1,042.50	1.1	15000	45	P	
78	**Se**	2	**79.370**	ug/l	3,968.50	9.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6118107	1.46	6852000	**89.3**	30	-	120	
45	Sc	1	56647	1.65	249000	**22.7**	30	-	120	**IS Fail**
45	Sc	2	246524	1.02	274900	**89.7**	30	-	120	
74	Ge	1	41440	1.38	197500	**21.0**	30	-	120	**IS Fail**
74	Ge	2	403269	1.83	437500	**92.2**	30	-	120	
74	Ge	3	1718269	0.63	1769000	**97.1**	30	-	120	
103	Rh	2	798756	1.53	847200	**94.3**	30	-	120	
103	Rh	3	1560934	1.22	1574000	**99.2**	30	-	120	
165	Ho	3	3096874	0.58	3040000	**101.9**	30	-	120	
175	Lu	3	3391869	1.18	3395000	**99.9**	30	-	120	
209	Bi	3	7120210	0.53	7067000	**100.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\093SMPL.D\093SMPL.D#
Date Acquired: May 28 2010 08:05 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-H MSD Vial Number: 3206
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.998**	ug/l	99.90	1.6	450	6	P	
60	**Ni**	2	**21.750**	ug/l	1,087.50	2.5	15000	45	P	
63	**Cu**	2	**11.110**	ug/l	555.50	2.9	15000	45	P	
66	**Zn**	2	**21.540**	ug/l	1,077.00	6.1	15000	45	P	
78	**Se**	2	**81.020**	ug/l	4,051.00	5.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6179661	1.19	6852000	**90.2**	30	-	120	
45	Sc	1	57039	1.44	249000	**22.9**	30	-	120	**IS Fail**
45	Sc	2	241823	0.60	274900	**88.0**	30	-	120	
74	Ge	1	41955	1.01	197500	**21.2**	30	-	120	**IS Fail**
74	Ge	2	401593	0.82	437500	**91.8**	30	-	120	
74	Ge	3	1720391	0.85	1769000	**97.3**	30	-	120	
103	Rh	2	795418	1.79	847200	**93.9**	30	-	120	
103	Rh	3	1553296	0.44	1574000	**98.7**	30	-	120	
165	Ho	3	3101839	0.88	3040000	**102.0**	30	-	120	
175	Lu	3	3376803	0.89	3395000	**99.5**	30	-	120	
209	Bi	3	7082393	0.74	7067000	**100.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\094SMPL.D\094SMPL.D#
Date Acquired: May 28 2010 08:12 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-E PDS Vial Number: 3207
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.001**	ug/l	100.05	2.8	450	6	P	
60	**Ni**	2	**20.850**	ug/l	1,042.50	2.0	15000	45	P	
63	**Cu**	2	**11.090**	ug/l	554.50	2.7	15000	45	P	
66	**Zn**	2	**22.620**	ug/l	1,131.00	0.5	15000	45	P	
78	**Se**	2	**82.640**	ug/l	4,132.00	3.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6256188	2.20	6852000	**91.3**	30	-	120	
45	Sc	1	58398	0.47	249000	**23.5**	30	-	120	**IS Fail**
45	Sc	2	243727	0.37	274900	**88.7**	30	-	120	
74	Ge	1	43406	0.12	197500	**22.0**	30	-	120	**IS Fail**
74	Ge	2	397767	1.52	437500	**90.9**	30	-	120	
74	Ge	3	1734505	0.84	1769000	**98.1**	30	-	120	
103	Rh	2	797091	1.12	847200	**94.1**	30	-	120	
103	Rh	3	1557440	0.35	1574000	**98.9**	30	-	120	
165	Ho	3	3062524	1.07	3040000	**100.7**	30	-	120	
175	Lu	3	3412736	1.21	3395000	**100.5**	30	-	120	
209	Bi	3	7105603	1.48	7067000	**100.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\095SMPL.D\095SMPL.D#
Date Acquired: May 28 2010 08:18 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64499/20-A Vial Number: 3208
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.893**	ug/l	94.65	2.7	450	6	P	
60	**Ni**	2	**20.630**	ug/l	1,031.50	4.7	15000	45	P	
63	**Cu**	2	**10.690**	ug/l	534.50	0.1	15000	45	P	
66	**Zn**	2	**20.970**	ug/l	1,048.50	5.9	15000	45	P	
78	**Se**	2	**79.590**	ug/l	3,979.50	3.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5914554	1.31	6852000	**86.3**	30	-	120	
45	Sc	1	59540	1.48	249000	**23.9**	30	-	120	**IS Fail**
45	Sc	2	240192	0.79	274900	**87.4**	30	-	120	
74	Ge	1	43175	0.23	197500	**21.9**	30	-	120	**IS Fail**
74	Ge	2	398552	0.40	437500	**91.1**	30	-	120	
74	Ge	3	1696777	1.05	1769000	**95.9**	30	-	120	
103	Rh	2	787039	1.50	847200	**92.9**	30	-	120	
103	Rh	3	1542718	1.84	1574000	**98.0**	30	-	120	
165	Ho	3	3072486	1.30	3040000	**101.1**	30	-	120	
175	Lu	3	3337843	0.89	3395000	**98.3**	30	-	120	
209	Bi	3	7062882	1.39	7067000	**99.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\096SMPL.D\096SMPL.D#
Date Acquired: May 28 2010 08:24 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64499/21-A Vial Number: 3209
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.949**	ug/l	97.45	5.5	450	6	P	
60	**Ni**	2	**21.040**	ug/l	1,052.00	1.6	15000	45	P	
63	**Cu**	2	**10.890**	ug/l	544.50	3.3	15000	45	P	
66	**Zn**	2	**20.560**	ug/l	1,028.00	1.5	15000	45	P	
78	**Se**	2	**80.980**	ug/l	4,049.00	15.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5810710	1.91	6852000	**84.8**	30	-	120	
45	Sc	1	62424	3.87	249000	**25.1**	30	-	120	**IS Fail**
45	Sc	2	241553	0.54	274900	**87.9**	30	-	120	
74	Ge	1	44851	1.33	197500	**22.7**	30	-	120	**IS Fail**
74	Ge	2	398628	0.18	437500	**91.1**	30	-	120	
74	Ge	3	1705406	0.99	1769000	**96.4**	30	-	120	
103	Rh	2	798424	1.23	847200	**94.2**	30	-	120	
103	Rh	3	1540798	0.24	1574000	**97.9**	30	-	120	
165	Ho	3	3042535	0.70	3040000	**100.1**	30	-	120	
175	Lu	3	3332364	0.25	3395000	**98.2**	30	-	120	
209	Bi	3	7044826	0.36	7067000	**99.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\097SMPL.D\097SMPL.D#
Date Acquired: May 28 2010 08:30 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.150**	ug/l	49.15	0.8	450	6	P	
60	**Ni**	2	**52.070**	ug/l	52.07	2.3	15000	45	P	
63	**Cu**	2	**52.860**	ug/l	52.86	0.8	15000	45	P	
66	**Zn**	2	**51.390**	ug/l	51.39	3.0	15000	45	P	
78	**Se**	2	**47.720**	ug/l	47.72	5.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6021791	1.39	6852000	**87.9**	30	-	120	
45	Sc	1	65623	1.37	249000	**26.4**	30	-	120	**IS Fail**
45	Sc	2	239976	1.16	274900	**87.3**	30	-	120	
74	Ge	1	49345	1.19	197500	**25.0**	30	-	120	**IS Fail**
74	Ge	2	398956	0.78	437500	**91.2**	30	-	120	
74	Ge	3	1701269	1.54	1769000	**96.2**	30	-	120	
103	Rh	2	773072	0.83	847200	**91.3**	30	-	120	
103	Rh	3	1510861	0.77	1574000	**96.0**	30	-	120	
165	Ho	3	3070122	0.64	3040000	**101.0**	30	-	120	
175	Lu	3	3294409	0.82	3395000	**97.0**	30	-	120	
209	Bi	3	6899279	0.45	7067000	**97.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\098SMPL.D\098SMPL.D#
Date Acquired: May 28 2010 08:36 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.019**	ug/l	0.02	4.5	450	6	P	
60	**Ni**	2	**0.044**	ug/l	0.04	57.4	15000	45	P	
63	**Cu**	2	**0.049**	ug/l	0.05	14.6	15000	45	P	
66	**Zn**	2	**0.276**	ug/l	0.28	37.3	15000	45	P	
78	**Se**	2	**-0.183**	ug/l	-0.18	74.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5827561	0.13	6852000	**85.0**	30	-	120	
45	Sc	1	64461	2.20	249000	**25.9**	30	-	120	**IS Fail**
45	Sc	2	241648	1.33	274900	**87.9**	30	-	120	
74	Ge	1	47337	0.35	197500	**24.0**	30	-	120	**IS Fail**
74	Ge	2	403365	1.11	437500	**92.2**	30	-	120	
74	Ge	3	1681381	0.24	1769000	**95.0**	30	-	120	
103	Rh	2	800628	1.78	847200	**94.5**	30	-	120	
103	Rh	3	1527971	1.29	1574000	**97.1**	30	-	120	
165	Ho	3	3017232	0.88	3040000	**99.3**	30	-	120	
175	Lu	3	3324387	1.72	3395000	**97.9**	30	-	120	
209	Bi	3	7101778	0.52	7067000	**100.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\099SMPL.D\099SMPL.D#
Date Acquired: May 28 2010 08:42 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-2-B Vial Number: 3301
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.006**	ug/l	0.01	85.9	450	6	P	
60	**Ni**	2	**3.833**	ug/l	3.83	2.9	15000	45	P	
63	**Cu**	2	**0.525**	ug/l	0.53	6.8	15000	45	P	
66	**Zn**	2	**2.167**	ug/l	2.17	7.3	15000	45	P	
78	**Se**	2	**0.077**	ug/l	0.08	806.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5152110	0.19	6852000	**75.2**	30	-	120	
45	Sc	1	56490	2.17	249000	**22.7**	30	-	120	**IS Fail**
45	Sc	2	225012	0.65	274900	**81.9**	30	-	120	
74	Ge	1	42119	2.29	197500	**21.3**	30	-	120	**IS Fail**
74	Ge	2	395014	1.52	437500	**90.3**	30	-	120	
74	Ge	3	1665210	0.80	1769000	**94.1**	30	-	120	
103	Rh	2	705472	1.11	847200	**83.3**	30	-	120	
103	Rh	3	1330874	1.15	1574000	**84.6**	30	-	120	
165	Ho	3	2878352	0.74	3040000	**94.7**	30	-	120	
175	Lu	3	3219350	0.40	3395000	**94.8**	30	-	120	
209	Bi	3	6367684	0.59	7067000	**90.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\100SMPL.D\100SMPL.D#
Date Acquired: May 28 2010 08:48 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-3-B Vial Number: 3302
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	100.0	450	6	P	
60	**Ni**	2	**2.229**	ug/l	2.23	2.5	15000	45	P	
63	**Cu**	2	**1.139**	ug/l	1.14	6.7	15000	45	P	
66	**Zn**	2	**1.928**	ug/l	1.93	17.6	15000	45	P	
78	**Se**	2	**-0.103**	ug/l	-0.10	550.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5004333	2.02	6852000	**73.0**	30	-	120	
45	Sc	1	55843	4.34	249000	**22.4**	30	-	120	**IS Fail**
45	Sc	2	229152	1.15	274900	**83.4**	30	-	120	
74	Ge	1	42276	0.57	197500	**21.4**	30	-	120	**IS Fail**
74	Ge	2	404356	0.66	437500	**92.4**	30	-	120	
74	Ge	3	1697402	0.10	1769000	**96.0**	30	-	120	
103	Rh	2	713273	1.43	847200	**84.2**	30	-	120	
103	Rh	3	1341467	0.78	1574000	**85.2**	30	-	120	
165	Ho	3	2980127	1.23	3040000	**98.0**	30	-	120	
175	Lu	3	3263256	0.78	3395000	**96.1**	30	-	120	
209	Bi	3	6485201	0.45	7067000	**91.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\101SMPL.D\101SMPL.D#
Date Acquired: May 28 2010 08:54 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-4-B Vial Number: 3303
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**-0.001**	ug/l	0.00	194.3	450	6	P	
60	**Ni**	2	**3.396**	ug/l	3.40	3.7	15000	45	P	
63	**Cu**	2	**2.057**	ug/l	2.06	1.9	15000	45	P	
66	**Zn**	2	**1.724**	ug/l	1.72	14.3	15000	45	P	
78	**Se**	2	**-0.010**	ug/l	-0.01	5252.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5041678	2.29	6852000	**73.6**	30	-	120	
45	Sc	1	55535	1.50	249000	**22.3**	30	-	120	**IS Fail**
45	Sc	2	225980	1.05	274900	**82.2**	30	-	120	
74	Ge	1	41467	2.45	197500	**21.0**	30	-	120	**IS Fail**
74	Ge	2	399803	0.68	437500	**91.4**	30	-	120	
74	Ge	3	1672606	0.70	1769000	**94.6**	30	-	120	
103	Rh	2	718820	1.48	847200	**84.8**	30	-	120	
103	Rh	3	1361847	1.24	1574000	**86.5**	30	-	120	
165	Ho	3	2950973	0.51	3040000	**97.1**	30	-	120	
175	Lu	3	3263056	0.65	3395000	**96.1**	30	-	120	
209	Bi	3	6478897	0.63	7067000	**91.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\102SMPL.D\102SMPL.D#
Date Acquired: May 28 2010 09:01 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-5-B Vial Number: 3304
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**-0.001**	ug/l	0.00	265.2	450	6	P	
60	**Ni**	2	**3.482**	ug/l	3.48	1.6	15000	45	P	
63	**Cu**	2	**1.550**	ug/l	1.55	10.3	15000	45	P	
66	**Zn**	2	**1.362**	ug/l	1.36	15.0	15000	45	P	
78	**Se**	2	**-0.499**	ug/l	-0.50	52.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4816418	0.91	6852000	**70.3**	30	-	120	
45	Sc	1	54441	2.19	249000	**21.9**	30	-	120	**IS Fail**
45	Sc	2	219701	1.78	274900	**79.9**	30	-	120	
74	Ge	1	40456	2.71	197500	**20.5**	30	-	120	**IS Fail**
74	Ge	2	388968	1.94	437500	**88.9**	30	-	120	
74	Ge	3	1632186	0.96	1769000	**92.3**	30	-	120	
103	Rh	2	706328	1.24	847200	**83.4**	30	-	120	
103	Rh	3	1315850	1.62	1574000	**83.6**	30	-	120	
165	Ho	3	2920361	0.73	3040000	**96.1**	30	-	120	
175	Lu	3	3245035	0.89	3395000	**95.6**	30	-	120	
209	Bi	3	6527499	0.83	7067000	**92.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\103SMPL.D\103SMPL.D#
Date Acquired: May 28 2010 09:07 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-6-B Vial Number: 3305
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	147.6	450	6	P	
60	**Ni**	2	**0.908**	ug/l	0.91	7.0	15000	45	P	
63	**Cu**	2	**0.332**	ug/l	0.33	13.2	15000	45	P	
66	**Zn**	2	**1.362**	ug/l	1.36	17.7	15000	45	P	
78	**Se**	2	**0.171**	ug/l	0.17	426.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4845485	1.30	6852000	**70.7**	30	-	120	
45	Sc	1	54079	0.38	249000	**21.7**	30	-	120	**IS Fail**
45	Sc	2	220713	1.42	274900	**80.3**	30	-	120	
74	Ge	1	40366	1.21	197500	**20.4**	30	-	120	**IS Fail**
74	Ge	2	392093	0.33	437500	**89.6**	30	-	120	
74	Ge	3	1636421	0.36	1769000	**92.5**	30	-	120	
103	Rh	2	699937	0.61	847200	**82.6**	30	-	120	
103	Rh	3	1308757	1.25	1574000	**83.1**	30	-	120	
165	Ho	3	2940713	0.19	3040000	**96.7**	30	-	120	
175	Lu	3	3251944	0.59	3395000	**95.8**	30	-	120	
209	Bi	3	6412341	1.06	7067000	**90.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\104SMPL.D\104SMPL.D#
Date Acquired: May 28 2010 09:13 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-7-B Vial Number: 3306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**-0.001**	ug/l	0.00	42.0	450	6	P	
60	**Ni**	2	**1.677**	ug/l	1.68	3.6	15000	45	P	
63	**Cu**	2	**0.571**	ug/l	0.57	5.8	15000	45	P	
66	**Zn**	2	**1.998**	ug/l	2.00	1.9	15000	45	P	
78	**Se**	2	**0.266**	ug/l	0.27	94.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4668144	1.26	6852000	**68.1**	30	-	120	
45	Sc	1	55596	0.10	249000	**22.3**	30	-	120	**IS Fail**
45	Sc	2	218601	0.58	274900	**79.5**	30	-	120	
74	Ge	1	41550	0.76	197500	**21.0**	30	-	120	**IS Fail**
74	Ge	2	388162	0.62	437500	**88.7**	30	-	120	
74	Ge	3	1618009	0.22	1769000	**91.5**	30	-	120	
103	Rh	2	692632	0.83	847200	**81.8**	30	-	120	
103	Rh	3	1287240	3.01	1574000	**81.8**	30	-	120	
165	Ho	3	2904288	0.28	3040000	**95.5**	30	-	120	
175	Lu	3	3217416	1.09	3395000	**94.8**	30	-	120	
209	Bi	3	6409716	0.35	7067000	**90.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\105SMPL.D\105SMPL.D#
Date Acquired: May 28 2010 09:19 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19439-E-1-A Vial Number: 3307
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.013**	ug/l	0.07	15.1	450	6	P	
60	**Ni**	2	**1.084**	ug/l	5.42	6.0	15000	45	P	
63	**Cu**	2	**1.076**	ug/l	5.38	8.9	15000	45	P	
66	**Zn**	2	**1.440**	ug/l	7.20	8.2	15000	45	P	
78	**Se**	2	**0.445**	ug/l	2.22	88.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5434473	0.86	6852000	**79.3**	30	-	120	
45	Sc	1	62803	1.83	249000	**25.2**	30	-	120	**IS Fail**
45	Sc	2	232699	0.79	274900	**84.6**	30	-	120	
74	Ge	1	45343	0.38	197500	**23.0**	30	-	120	**IS Fail**
74	Ge	2	385882	0.72	437500	**88.2**	30	-	120	
74	Ge	3	1646495	0.55	1769000	**93.1**	30	-	120	
103	Rh	2	731534	1.12	847200	**86.3**	30	-	120	
103	Rh	3	1411521	0.40	1574000	**89.7**	30	-	120	
165	Ho	3	3028081	0.74	3040000	**99.6**	30	-	120	
175	Lu	3	3322138	1.36	3395000	**97.9**	30	-	120	
209	Bi	3	6731086	0.55	7067000	**95.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\106SMPL.D\106SMPL.D#
Date Acquired: May 28 2010 09:25 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19439-E-2-A Vial Number: 3308
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**-0.002**	ug/l	-0.01	47.2	450	6	P	
60	**Ni**	2	**0.757**	ug/l	3.78	16.0	15000	45	P	
63	**Cu**	2	**1.066**	ug/l	5.33	6.7	15000	45	P	
66	**Zn**	2	**1.440**	ug/l	7.20	5.5	15000	45	P	
78	**Se**	2	**-0.503**	ug/l	-2.51	0.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5451323	1.03	6852000	**79.6**	30	-	120	
45	Sc	1	63586	1.59	249000	**25.5**	30	-	120	**IS Fail**
45	Sc	2	234450	0.57	274900	**85.3**	30	-	120	
74	Ge	1	46454	2.35	197500	**23.5**	30	-	120	**IS Fail**
74	Ge	2	391023	0.60	437500	**89.4**	30	-	120	
74	Ge	3	1650934	0.51	1769000	**93.3**	30	-	120	
103	Rh	2	745332	0.57	847200	**88.0**	30	-	120	
103	Rh	3	1418023	0.66	1574000	**90.1**	30	-	120	
165	Ho	3	3007006	0.53	3040000	**98.9**	30	-	120	
175	Lu	3	3326155	2.48	3395000	**98.0**	30	-	120	
209	Bi	3	6726980	0.47	7067000	**95.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\107SMPL.D\107SMPL.D#
Date Acquired: May 28 2010 09:31 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-1-A Vial Number: 3309
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**-0.002**	ug/l	-0.01	105.9	450	6	P	
60	**Ni**	2	**0.499**	ug/l	2.50	15.4	15000	45	P	
63	**Cu**	2	**1.021**	ug/l	5.11	1.4	15000	45	P	
66	**Zn**	2	**0.897**	ug/l	4.49	13.5	15000	45	P	
78	**Se**	2	**-0.002**	ug/l	-0.01	16697.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5481596	2.00	6852000	**80.0**	30	-	120	
45	Sc	1	67188	1.35	249000	**27.0**	30	-	120	**IS Fail**
45	Sc	2	238662	0.87	274900	**86.8**	30	-	120	
74	Ge	1	49733	2.32	197500	**25.2**	30	-	120	**IS Fail**
74	Ge	2	395976	1.92	437500	**90.5**	30	-	120	
74	Ge	3	1653137	0.45	1769000	**93.5**	30	-	120	
103	Rh	2	753902	1.29	847200	**89.0**	30	-	120	
103	Rh	3	1444816	1.28	1574000	**91.8**	30	-	120	
165	Ho	3	3075893	0.92	3040000	**101.2**	30	-	120	
175	Lu	3	3349379	0.51	3395000	**98.7**	30	-	120	
209	Bi	3	6728344	0.65	7067000	**95.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\108SMPL.D\108SMPL.D#
Date Acquired: May 28 2010 09:38 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-2-A Vial Number: 3310
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**-0.001**	ug/l	-0.01	101.2	450	6	P	
60	**Ni**	2	**0.985**	ug/l	4.93	1.1	15000	45	P	
63	**Cu**	2	**0.081**	ug/l	0.41	26.6	15000	45	P	
66	**Zn**	2	**0.848**	ug/l	4.24	21.1	15000	45	P	
78	**Se**	2	**0.004**	ug/l	0.02	6509.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5562392	1.91	6852000	**81.2**	30	-	120	
45	Sc	1	66301	1.59	249000	**26.6**	30	-	120	**IS Fail**
45	Sc	2	235691	0.97	274900	**85.7**	30	-	120	
74	Ge	1	49204	2.18	197500	**24.9**	30	-	120	**IS Fail**
74	Ge	2	391990	0.74	437500	**89.6**	30	-	120	
74	Ge	3	1663183	0.60	1769000	**94.0**	30	-	120	
103	Rh	2	755505	1.16	847200	**89.2**	30	-	120	
103	Rh	3	1444637	0.35	1574000	**91.8**	30	-	120	
165	Ho	3	3053073	0.79	3040000	**100.4**	30	-	120	
175	Lu	3	3341236	0.85	3395000	**98.4**	30	-	120	
209	Bi	3	6820470	0.57	7067000	**96.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\109SMPL.D\109SMPL.D#
Date Acquired: May 28 2010 09:44 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.560**	ug/l	49.56	4.7	450	6	P	
60	**Ni**	2	**51.340**	ug/l	51.34	1.7	15000	45	P	
63	**Cu**	2	**51.650**	ug/l	51.65	0.4	15000	45	P	
66	**Zn**	2	**51.730**	ug/l	51.73	3.6	15000	45	P	
78	**Se**	2	**51.600**	ug/l	51.60	5.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5824729	2.22	6852000	**85.0**	30	-	120	
45	Sc	1	65868	1.65	249000	**26.5**	30	-	120	**IS Fail**
45	Sc	2	243193	0.84	274900	**88.5**	30	-	120	
74	Ge	1	48308	3.07	197500	**24.5**	30	-	120	**IS Fail**
74	Ge	2	398358	1.87	437500	**91.1**	30	-	120	
74	Ge	3	1709111	1.19	1769000	**96.6**	30	-	120	
103	Rh	2	776431	1.69	847200	**91.6**	30	-	120	
103	Rh	3	1487346	0.84	1574000	**94.5**	30	-	120	
165	Ho	3	3087663	1.70	3040000	**101.6**	30	-	120	
175	Lu	3	3363561	1.29	3395000	**99.1**	30	-	120	
209	Bi	3	6962340	0.79	7067000	**98.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\110SMPL.D\110SMPL.D#
Date Acquired: May 28 2010 09:50 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.020**	ug/l	0.02	2.3	450	6	P	
60	**Ni**	2	**0.002**	ug/l	0.00	266.7	15000	45	P	
63	**Cu**	2	**0.032**	ug/l	0.03	7.1	15000	45	P	
66	**Zn**	2	**0.197**	ug/l	0.20	33.8	15000	45	P	
78	**Se**	2	**0.134**	ug/l	0.13	112.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5854430	0.53	6852000	**85.4**	30	-	120	
45	Sc	1	68076	2.04	249000	**27.3**	30	-	120	**IS Fail**
45	Sc	2	243318	0.21	274900	**88.5**	30	-	120	
74	Ge	1	48616	1.74	197500	**24.6**	30	-	120	**IS Fail**
74	Ge	2	409530	1.40	437500	**93.6**	30	-	120	
74	Ge	3	1678827	2.28	1769000	**94.9**	30	-	120	
103	Rh	2	801250	0.67	847200	**94.6**	30	-	120	
103	Rh	3	1529793	1.69	1574000	**97.2**	30	-	120	
165	Ho	3	3031955	1.34	3040000	**99.7**	30	-	120	
175	Lu	3	3308800	2.00	3395000	**97.5**	30	-	120	
209	Bi	3	7072805	1.83	7067000	**100.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\111SMPL.D\111SMPL.D#
Date Acquired: May 28 2010 09:56 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-3-A Vial Number: 3401
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.016**	ug/l	0.08	7.0	450	6	P	
60	**Ni**	2	**0.421**	ug/l	2.10	20.6	15000	45	P	
63	**Cu**	2	**0.680**	ug/l	3.40	5.3	15000	45	P	
66	**Zn**	2	**0.916**	ug/l	4.58	3.5	15000	45	P	
78	**Se**	2	**0.324**	ug/l	1.62	116.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5618715	1.26	6852000	**82.0**	30	-	120	
45	Sc	1	65747	1.85	249000	**26.4**	30	-	120	**IS Fail**
45	Sc	2	239501	0.59	274900	**87.1**	30	-	120	
74	Ge	1	47568	0.97	197500	**24.1**	30	-	120	**IS Fail**
74	Ge	2	398051	1.07	437500	**91.0**	30	-	120	
74	Ge	3	1677751	0.47	1769000	**94.8**	30	-	120	
103	Rh	2	749571	1.87	847200	**88.5**	30	-	120	
103	Rh	3	1456739	0.42	1574000	**92.6**	30	-	120	
165	Ho	3	3059632	2.65	3040000	**100.6**	30	-	120	
175	Lu	3	3358443	0.98	3395000	**98.9**	30	-	120	
209	Bi	3	6773270	0.52	7067000	**95.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\112SMPL.D\112SMPL.D#
Date Acquired: May 28 2010 10:02 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-4-A Vial Number: 3402
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.000**	ug/l	0.00	940.7	450	6	P	
60	**Ni**	2	**5.341**	ug/l	26.71	5.2	15000	45	P	
63	**Cu**	2	**1.873**	ug/l	9.37	4.3	15000	45	P	
66	**Zn**	2	**1.459**	ug/l	7.30	18.7	15000	45	P	
78	**Se**	2	**0.090**	ug/l	0.45	911.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5522131	0.94	6852000	**80.6**	30	-	120	
45	Sc	1	64655	2.39	249000	**26.0**	30	-	120	**IS Fail**
45	Sc	2	237353	1.22	274900	**86.3**	30	-	120	
74	Ge	1	47431	1.32	197500	**24.0**	30	-	120	**IS Fail**
74	Ge	2	393788	1.72	437500	**90.0**	30	-	120	
74	Ge	3	1656428	0.42	1769000	**93.6**	30	-	120	
103	Rh	2	747460	1.76	847200	**88.2**	30	-	120	
103	Rh	3	1419091	1.89	1574000	**90.2**	30	-	120	
165	Ho	3	3033541	1.26	3040000	**99.8**	30	-	120	
175	Lu	3	3321261	0.97	3395000	**97.8**	30	-	120	
209	Bi	3	6642358	1.28	7067000	**94.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\113SMPL.D\113SMPL.D#
Date Acquired: May 28 2010 10:08 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19402-H-2-A Vial Number: 3403
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.00	181.9	450	6	P	
60	**Ni**	2	**0.771**	ug/l	3.85	12.1	15000	45	P	
63	**Cu**	2	**0.567**	ug/l	2.83	6.9	15000	45	P	
66	**Zn**	2	**3.090**	ug/l	15.45	17.4	15000	45	P	
78	**Se**	2	**0.151**	ug/l	0.75	501.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5625774	1.70	6852000	**82.1**	30	-	120	
45	Sc	1	65011	0.76	249000	**26.1**	30	-	120	**IS Fail**
45	Sc	2	238586	1.14	274900	**86.8**	30	-	120	
74	Ge	1	47588	1.17	197500	**24.1**	30	-	120	**IS Fail**
74	Ge	2	403067	1.80	437500	**92.1**	30	-	120	
74	Ge	3	1696085	0.93	1769000	**95.9**	30	-	120	
103	Rh	2	771616	1.43	847200	**91.1**	30	-	120	
103	Rh	3	1478359	0.99	1574000	**93.9**	30	-	120	
165	Ho	3	3039199	1.48	3040000	**100.0**	30	-	120	
175	Lu	3	3335995	1.18	3395000	**98.3**	30	-	120	
209	Bi	3	6857535	0.84	7067000	**97.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\114SMPL.D\114SMPL.D#
Date Acquired: May 28 2010 10:14 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19402-H-3-A Vial Number: 3404
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.000**	ug/l	0.00	447.9	450	6	P	
60	**Ni**	2	**0.624**	ug/l	3.12	22.8	15000	45	P	
63	**Cu**	2	**0.256**	ug/l	1.28	12.5	15000	45	P	
66	**Zn**	2	**2.736**	ug/l	13.68	5.7	15000	45	P	
78	**Se**	2	**-0.260**	ug/l	-1.30	192.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5542502	2.76	6852000	**80.9**	30	-	120	
45	Sc	1	66089	3.33	249000	**26.5**	30	-	120	**IS Fail**
45	Sc	2	243453	1.22	274900	**88.6**	30	-	120	
74	Ge	1	48943	0.82	197500	**24.8**	30	-	120	**IS Fail**
74	Ge	2	402999	1.22	437500	**92.1**	30	-	120	
74	Ge	3	1700050	0.65	1769000	**96.1**	30	-	120	
103	Rh	2	774620	1.18	847200	**91.4**	30	-	120	
103	Rh	3	1472994	0.73	1574000	**93.6**	30	-	120	
165	Ho	3	3089475	0.21	3040000	**101.6**	30	-	120	
175	Lu	3	3309501	0.44	3395000	**97.5**	30	-	120	
209	Bi	3	6788619	1.98	7067000	**96.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\115SMPL.D\115SMPL.D#
Date Acquired: May 28 2010 10:21 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**50.170**	ug/l	50.17	1.0	450	6	P	
60	**Ni**	2	**51.600**	ug/l	51.60	2.3	15000	45	P	
63	**Cu**	2	**52.260**	ug/l	52.26	0.8	15000	45	P	
66	**Zn**	2	**51.310**	ug/l	51.31	1.8	15000	45	P	
78	**Se**	2	**49.960**	ug/l	49.96	5.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5919240	0.79	6852000	**86.4**	30	-	120	
45	Sc	1	69956	3.04	249000	**28.1**	30	-	120	**IS Fail**
45	Sc	2	244164	0.90	274900	**88.8**	30	-	120	
74	Ge	1	51343	0.82	197500	**26.0**	30	-	120	**IS Fail**
74	Ge	2	404126	0.41	437500	**92.4**	30	-	120	
74	Ge	3	1719658	0.72	1769000	**97.2**	30	-	120	
103	Rh	2	778294	1.44	847200	**91.9**	30	-	120	
103	Rh	3	1517087	0.65	1574000	**96.4**	30	-	120	
165	Ho	3	3061454	1.03	3040000	**100.7**	30	-	120	
175	Lu	3	3344195	1.08	3395000	**98.5**	30	-	120	
209	Bi	3	6827206	0.48	7067000	**96.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\116SMPL.D\116SMPL.D#
Date Acquired: May 28 2010 10:27 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.015**	ug/l	0.02	45.2	450	6	P	
60	**Ni**	2	**0.018**	ug/l	0.02	259.1	15000	45	P	
63	**Cu**	2	**0.052**	ug/l	0.05	4.0	15000	45	P	
66	**Zn**	2	**0.238**	ug/l	0.24	46.3	15000	45	P	
78	**Se**	2	**-0.355**	ug/l	-0.35	140.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6045642	1.67	6852000	**88.2**	30	-	120	
45	Sc	1	71095	1.64	249000	**28.6**	30	-	120	**IS Fail**
45	Sc	2	248217	0.40	274900	**90.3**	30	-	120	
74	Ge	1	51641	1.04	197500	**26.1**	30	-	120	**IS Fail**
74	Ge	2	409625	1.05	437500	**93.6**	30	-	120	
74	Ge	3	1722494	1.76	1769000	**97.4**	30	-	120	
103	Rh	2	808113	0.94	847200	**95.4**	30	-	120	
103	Rh	3	1531701	1.57	1574000	**97.3**	30	-	120	
165	Ho	3	3045201	1.06	3040000	**100.2**	30	-	120	
175	Lu	3	3339911	1.54	3395000	**98.4**	30	-	120	
209	Bi	3	7048367	0.85	7067000	**99.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\117SMPL.D\117SMPL.D#
Date Acquired: May 28 2010 10:33 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64536/21-A Vial Number: 3501
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.005**	ug/l	0.05	22.9	450	6	P	
60	**Ni**	2	**0.066**	ug/l	0.66	83.4	15000	45	P	
63	**Cu**	2	**0.033**	ug/l	0.33	94.8	15000	45	P	
66	**Zn**	2	**-0.056**	ug/l	-0.56	149.2	15000	45	P	
78	**Se**	2	**-0.515**	ug/l	-5.15	46.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5845516	0.95	6852000	**85.3**	30	-	120	
45	Sc	1	70807	0.62	249000	**28.4**	30	-	120	**IS Fail**
45	Sc	2	246188	1.13	274900	**89.6**	30	-	120	
74	Ge	1	52431	1.23	197500	**26.5**	30	-	120	**IS Fail**
74	Ge	2	405318	2.00	437500	**92.6**	30	-	120	
74	Ge	3	1695198	0.50	1769000	**95.8**	30	-	120	
103	Rh	2	807657	1.93	847200	**95.3**	30	-	120	
103	Rh	3	1521356	0.91	1574000	**96.7**	30	-	120	
165	Ho	3	3064001	0.16	3040000	**100.8**	30	-	120	
175	Lu	3	3313780	1.55	3395000	**97.6**	30	-	120	
209	Bi	3	7004011	1.86	7067000	**99.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\118SMPL.D\118SMPL.D#
Date Acquired: May 28 2010 10:39 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-B SD Vial Number: 3502
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.105**	ug/l	5.25	12.2	450	6	P	
60	**Ni**	2	**336.400**	ug/l	16,820.00	1.2	15000	45	P	
63	**Cu**	2	**24.180**	ug/l	1,209.00	1.6	15000	45	P	
66	**Zn**	2	**358.900**	ug/l	17,945.00	1.2	15000	45	P	
78	**Se**	2	**-0.073**	ug/l	-3.66	724.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5802205	2.34	6852000	**84.7**	30	-	120	
45	Sc	1	68462	1.43	249000	**27.5**	30	-	120	**IS Fail**
45	Sc	2	241081	0.42	274900	**87.7**	30	-	120	
74	Ge	1	48445	2.05	197500	**24.5**	30	-	120	**IS Fail**
74	Ge	2	386027	1.10	437500	**88.2**	30	-	120	
74	Ge	3	1661868	0.19	1769000	**93.9**	30	-	120	
103	Rh	2	752356	1.91	847200	**88.8**	30	-	120	
103	Rh	3	1464264	2.07	1574000	**93.0**	30	-	120	
165	Ho	3	2989697	1.07	3040000	**98.3**	30	-	120	
175	Lu	3	3255579	0.30	3395000	**95.9**	30	-	120	
209	Bi	3	6780714	1.00	7067000	**95.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\119SMPL.D\119SMPL.D#
Date Acquired: May 28 2010 10:45 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-B Vial Number: 3503
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.530**	ug/l	5.30	3.8	450	6	P	
60	**Ni**	2	**1469.000**	ug/l	14,690.00	1.2	15000	45	A	
63	**Cu**	2	**107.700**	ug/l	1,077.00	0.5	15000	45	P	
66	**Zn**	2	**1584.000**	ug/l	15,840.00	1.0	15000	45	P	
78	**Se**	2	**0.487**	ug/l	4.87	194.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4914590	0.66	6852000	**71.7**	30	-	120	
45	Sc	1	65845	1.69	249000	**26.4**	30	-	120	**IS Fail**
45	Sc	2	240024	2.29	274900	**87.3**	30	-	120	
74	Ge	1	39329	3.21	197500	**19.9**	30	-	120	**IS Fail**
74	Ge	2	350161	2.59	437500	**80.0**	30	-	120	
74	Ge	3	1485563	0.94	1769000	**84.0**	30	-	120	
103	Rh	2	680593	2.23	847200	**80.3**	30	-	120	
103	Rh	3	1299409	1.06	1574000	**82.6**	30	-	120	
165	Ho	3	2849633	0.52	3040000	**93.7**	30	-	120	
175	Lu	3	3141076	1.23	3395000	**92.5**	30	-	120	
209	Bi	3	6261793	1.24	7067000	**88.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\120SMPL.D\120SMPL.D#
Date Acquired: May 28 2010 10:51 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-C DU Vial Number: 3504
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.532**	ug/l	5.32	5.8	450	6	P	
60	**Ni**	2	**1518.000**	ug/l	15,180.00	0.7	15000	45	A	
63	**Cu**	2	**111.200**	ug/l	1,112.00	0.7	15000	45	P	
66	**Zn**	2	**1658.000**	ug/l	16,580.00	1.0	15000	45	P	
78	**Se**	2	**1.011**	ug/l	10.11	47.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4783902	0.17	6852000	**69.8**	30	-	120	
45	Sc	1	67346	3.15	249000	**27.0**	30	-	120	**IS Fail**
45	Sc	2	229653	2.06	274900	**83.5**	30	-	120	
74	Ge	1	41376	1.42	197500	**20.9**	30	-	120	**IS Fail**
74	Ge	2	336247	1.44	437500	**76.9**	30	-	120	
74	Ge	3	1424916	1.60	1769000	**80.5**	30	-	120	
103	Rh	2	653009	1.76	847200	**77.1**	30	-	120	
103	Rh	3	1271986	2.62	1574000	**80.8**	30	-	120	
165	Ho	3	2771152	1.28	3040000	**91.2**	30	-	120	
175	Lu	3	3077024	0.82	3395000	**90.6**	30	-	120	
209	Bi	3	6131468	0.94	7067000	**86.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\121SMPL.D\121SMPL.D#
Date Acquired: May 28 2010 10:57 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-D MS Vial Number: 3505
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.951**	ug/l	97.55	4.5	450	6	P	
60	**Ni**	2	**315.200**	ug/l	15,760.00	0.7	15000	45	P	
63	**Cu**	2	**31.520**	ug/l	1,576.00	1.1	15000	45	P	
66	**Zn**	2	**335.500**	ug/l	16,775.00	0.8	15000	45	P	
78	**Se**	2	**76.800**	ug/l	3,840.00	6.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5457832	0.81	6852000	**79.7**	30	-	120	
45	Sc	1	61178	2.28	249000	**24.6**	30	-	120	**IS Fail**
45	Sc	2	224615	0.32	274900	**81.7**	30	-	120	
74	Ge	1	42493	3.22	197500	**21.5**	30	-	120	**IS Fail**
74	Ge	2	360276	0.66	437500	**82.3**	30	-	120	
74	Ge	3	1532228	1.61	1769000	**86.6**	30	-	120	
103	Rh	2	720171	1.20	847200	**85.0**	30	-	120	
103	Rh	3	1369214	0.96	1574000	**87.0**	30	-	120	
165	Ho	3	2893812	1.33	3040000	**95.2**	30	-	120	
175	Lu	3	3204103	1.29	3395000	**94.4**	30	-	120	
209	Bi	3	6616183	0.75	7067000	**93.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\122SMPL.D\122SMPL.D#
Date Acquired: May 28 2010 11:03 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-E MSD Vial Number: 3506
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.081**	ug/l	104.05	3.1	450	6	P	
60	**Ni**	2	**326.000**	ug/l	16,300.00	0.9	15000	45	P	
63	**Cu**	2	**32.520**	ug/l	1,626.00	0.2	15000	45	P	
66	**Zn**	2	**347.400**	ug/l	17,370.00	0.8	15000	45	P	
78	**Se**	2	**78.640**	ug/l	3,932.00	1.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5409905	2.71	6852000	**79.0**	30	-	120	
45	Sc	1	72624	2.60	249000	**29.2**	30	-	120	**IS Fail**
45	Sc	2	225670	1.30	274900	**82.1**	30	-	120	
74	Ge	1	52086	1.82	197500	**26.4**	30	-	120	**IS Fail**
74	Ge	2	364894	0.97	437500	**83.4**	30	-	120	
74	Ge	3	1555720	0.67	1769000	**87.9**	30	-	120	
103	Rh	2	720024	1.32	847200	**85.0**	30	-	120	
103	Rh	3	1385377	0.99	1574000	**88.0**	30	-	120	
165	Ho	3	2914033	1.29	3040000	**95.9**	30	-	120	
175	Lu	3	3247384	0.68	3395000	**95.7**	30	-	120	
209	Bi	3	6610249	0.44	7067000	**93.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\123SMPL.D\123SMPL.D#
Date Acquired: May 28 2010 11:09 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-B PDS Vial Number: 3507
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.060**	ug/l	103.00	2.8	450	6	P	
60	**Ni**	2	**326.800**	ug/l	16,340.00	0.5	15000	45	P	
63	**Cu**	2	**32.610**	ug/l	1,630.50	0.9	15000	45	P	
66	**Zn**	2	**346.000**	ug/l	17,300.00	1.6	15000	45	P	
78	**Se**	2	**81.940**	ug/l	4,097.00	4.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5430857	0.71	6852000	**79.3**	30	-	120	
45	Sc	1	74606	3.91	249000	**30.0**	30	-	120	**IS Fail**
45	Sc	2	225815	1.03	274900	**82.1**	30	-	120	
74	Ge	1	53515	2.44	197500	**27.1**	30	-	120	**IS Fail**
74	Ge	2	364111	1.77	437500	**83.2**	30	-	120	
74	Ge	3	1558938	1.10	1769000	**88.1**	30	-	120	
103	Rh	2	726199	1.30	847200	**85.7**	30	-	120	
103	Rh	3	1383933	0.63	1574000	**87.9**	30	-	120	
165	Ho	3	2913560	1.05	3040000	**95.8**	30	-	120	
175	Lu	3	3213142	0.71	3395000	**94.6**	30	-	120	
209	Bi	3	6622826	0.78	7067000	**93.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\124SMPL.D\124SMPL.D#
Date Acquired: May 28 2010 11:16 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64536/22-A Vial Number: 3508
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.914**	ug/l	95.70	3.4	450	6	P	
60	**Ni**	2	**20.480**	ug/l	1,024.00	1.2	15000	45	P	
63	**Cu**	2	**10.690**	ug/l	534.50	0.3	15000	45	P	
66	**Zn**	2	**20.580**	ug/l	1,029.00	1.6	15000	45	P	
78	**Se**	2	**76.870**	ug/l	3,843.50	9.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5458724	0.85	6852000	**79.7**	30	-	120	
45	Sc	1	72617	2.26	249000	**29.2**	30	-	120	**IS Fail**
45	Sc	2	224385	0.55	274900	**81.6**	30	-	120	
74	Ge	1	52435	1.74	197500	**26.5**	30	-	120	**IS Fail**
74	Ge	2	373413	1.07	437500	**85.4**	30	-	120	
74	Ge	3	1562105	2.31	1769000	**88.3**	30	-	120	
103	Rh	2	747577	1.56	847200	**88.2**	30	-	120	
103	Rh	3	1412368	1.71	1574000	**89.7**	30	-	120	
165	Ho	3	2938623	1.92	3040000	**96.7**	30	-	120	
175	Lu	3	3232898	0.83	3395000	**95.2**	30	-	120	
209	Bi	3	6773432	0.85	7067000	**95.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\125SMPL.D\125SMPL.D#
Date Acquired: May 28 2010 11:22 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64536/23-A Vial Number: 3509
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.894**	ug/l	94.70	2.6	450	6	P	
60	**Ni**	2	**20.540**	ug/l	1,027.00	1.7	15000	45	P	
63	**Cu**	2	**10.430**	ug/l	521.50	1.3	15000	45	P	
66	**Zn**	2	**21.540**	ug/l	1,077.00	2.1	15000	45	P	
78	**Se**	2	**82.130**	ug/l	4,106.50	3.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5484911	2.03	6852000	**80.0**	30	-	120	
45	Sc	1	72618	1.15	249000	**29.2**	30	-	120	**IS Fail**
45	Sc	2	224502	1.38	274900	**81.7**	30	-	120	
74	Ge	1	53067	2.63	197500	**26.9**	30	-	120	**IS Fail**
74	Ge	2	373697	1.83	437500	**85.4**	30	-	120	
74	Ge	3	1578530	1.01	1769000	**89.2**	30	-	120	
103	Rh	2	748060	0.89	847200	**88.3**	30	-	120	
103	Rh	3	1431317	1.63	1574000	**90.9**	30	-	120	
165	Ho	3	2933229	0.91	3040000	**96.5**	30	-	120	
175	Lu	3	3249771	1.06	3395000	**95.7**	30	-	120	
209	Bi	3	6849750	0.93	7067000	**96.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\126SMPL.D\126SMPL.D#
Date Acquired: May 28 2010 11:28 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64536/24-A Vial Number: 3510
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**89.380**	ug/l	1,787.60	0.7	450	6	P	
60	**Ni**	2	**101.600**	ug/l	2,032.00	1.5	15000	45	P	
63	**Cu**	2	**39.350**	ug/l	787.00	2.0	15000	45	P	
66	**Zn**	2	**206.600**	ug/l	4,132.00	0.5	15000	45	P	
78	**Se**	2	**82.680**	ug/l	1,653.60	8.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5574613	1.07	6852000	**81.4**	30	-	120	
45	Sc	1	78114	0.69	249000	**31.4**	30	-	120	
45	Sc	2	227190	1.55	274900	**82.6**	30	-	120	
74	Ge	1	58387	2.09	197500	**29.6**	30	-	120	**IS Fail**
74	Ge	2	369830	0.93	437500	**84.5**	30	-	120	
74	Ge	3	1604421	0.80	1769000	**90.7**	30	-	120	
103	Rh	2	727482	0.86	847200	**85.9**	30	-	120	
103	Rh	3	1402644	1.17	1574000	**89.1**	30	-	120	
165	Ho	3	2915255	0.47	3040000	**95.9**	30	-	120	
175	Lu	3	3220932	0.37	3395000	**94.9**	30	-	120	
209	Bi	3	6666783	0.93	7067000	**94.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\127SMPL.D\127SMPL.D#
Date Acquired: May 28 2010 11:34 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.230**	ug/l	49.23	0.9	450	6	P	
60	**Ni**	2	**50.700**	ug/l	50.70	0.6	15000	45	P	
63	**Cu**	2	**51.820**	ug/l	51.82	1.2	15000	45	P	
66	**Zn**	2	**50.540**	ug/l	50.54	2.4	15000	45	P	
78	**Se**	2	**48.340**	ug/l	48.34	4.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5661591	0.95	6852000	**82.6**	30	-	120	
45	Sc	1	79177	1.64	249000	**31.8**	30	-	120	
45	Sc	2	229938	0.76	274900	**83.6**	30	-	120	
74	Ge	1	59723	0.88	197500	**30.2**	30	-	120	
74	Ge	2	377680	0.36	437500	**86.3**	30	-	120	
74	Ge	3	1638736	0.55	1769000	**92.6**	30	-	120	
103	Rh	2	737839	0.49	847200	**87.1**	30	-	120	
103	Rh	3	1434719	1.13	1574000	**91.2**	30	-	120	
165	Ho	3	2954596	0.97	3040000	**97.2**	30	-	120	
175	Lu	3	3229872	1.13	3395000	**95.1**	30	-	120	
209	Bi	3	6632738	0.96	7067000	**93.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\128SMPL.D\128SMPL.D#
Date Acquired: May 28 2010 11:41 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.032**	ug/l	0.03	10.8	450	6	P	
60	**Ni**	2	**0.041**	ug/l	0.04	57.2	15000	45	P	
63	**Cu**	2	**0.065**	ug/l	0.07	20.3	15000	45	P	
66	**Zn**	2	**0.165**	ug/l	0.16	44.3	15000	45	P	
78	**Se**	2	**-0.081**	ug/l	-0.08	351.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5568373	1.59	6852000	**81.3**	30	-	120	
45	Sc	1	96814	20.63	249000	**38.9**	30	-	120	
45	Sc	2	235647	2.79	274900	**85.7**	30	-	120	
74	Ge	1	69941	16.66	197500	**35.4**	30	-	120	
74	Ge	2	390438	1.41	437500	**89.2**	30	-	120	
74	Ge	3	1617847	0.61	1769000	**91.5**	30	-	120	
103	Rh	2	781424	2.17	847200	**92.2**	30	-	120	
103	Rh	3	1460952	1.74	1574000	**92.8**	30	-	120	
165	Ho	3	2950218	0.64	3040000	**97.0**	30	-	120	
175	Lu	3	3245992	0.74	3395000	**95.6**	30	-	120	
209	Bi	3	6885985	0.64	7067000	**97.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\129SMPL.D\129SMPL.D#
Date Acquired: May 28 2010 11:47 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-15-B Vial Number: 4101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.171**	ug/l	11.71	2.5	450	6	P	
60	**Ni**	2	**870.100**	ug/l	8,701.00	0.4	15000	45	P	
63	**Cu**	2	**78.730**	ug/l	787.30	1.1	15000	45	P	
66	**Zn**	2	**169.100**	ug/l	1,691.00	1.5	15000	45	P	
78	**Se**	2	**0.878**	ug/l	8.78	94.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5286376	0.89	6852000	**77.2**	30	-	120	
45	Sc	1	84155	1.09	249000	**33.8**	30	-	120	
45	Sc	2	242991	1.53	274900	**88.4**	30	-	120	
74	Ge	1	55983	2.41	197500	**28.3**	30	-	120	**IS Fail**
74	Ge	2	366225	1.33	437500	**83.7**	30	-	120	
74	Ge	3	1581971	0.73	1769000	**89.4**	30	-	120	
103	Rh	2	708552	0.97	847200	**83.6**	30	-	120	
103	Rh	3	1381642	0.82	1574000	**87.8**	30	-	120	
165	Ho	3	2945730	0.75	3040000	**96.9**	30	-	120	
175	Lu	3	3215444	0.62	3395000	**94.7**	30	-	120	
209	Bi	3	6355659	0.62	7067000	**89.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\130SMPL.D\130SMPL.D#
Date Acquired: May 28 2010 11:53 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-16-B Vial Number: 4102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.050**	ug/l	10.50	1.7	450	6	P	
60	**Ni**	2	**402.800**	ug/l	4,028.00	0.9	15000	45	P	
63	**Cu**	2	**105.000**	ug/l	1,050.00	0.8	15000	45	P	
66	**Zn**	2	**215.300**	ug/l	2,153.00	0.7	15000	45	P	
78	**Se**	2	**0.790**	ug/l	7.90	81.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5543718	0.38	6852000	**80.9**	30	-	120	
45	Sc	1	74127	0.96	249000	**29.8**	30	-	120	**IS Fail**
45	Sc	2	240504	0.71	274900	**87.5**	30	-	120	
74	Ge	1	49154	1.35	197500	**24.9**	30	-	120	**IS Fail**
74	Ge	2	365324	1.28	437500	**83.5**	30	-	120	
74	Ge	3	1540934	1.44	1769000	**87.1**	30	-	120	
103	Rh	2	705193	0.63	847200	**83.2**	30	-	120	
103	Rh	3	1344353	0.10	1574000	**85.4**	30	-	120	
165	Ho	3	2885416	1.24	3040000	**94.9**	30	-	120	
175	Lu	3	3176780	1.26	3395000	**93.6**	30	-	120	
209	Bi	3	6342232	0.54	7067000	**89.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\131SMPL.D\131SMPL.D#
Date Acquired: May 28 2010 11:59 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-17-B Vial Number: 4103
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.030**	ug/l	10.30	3.3	450	6	P	
60	**Ni**	2	**2321.000**	ug/l	23,210.00	0.6	15000	45	A	
63	**Cu**	2	**69.750**	ug/l	697.50	0.5	15000	45	P	
66	**Zn**	2	**193.600**	ug/l	1,936.00	1.5	15000	45	P	
78	**Se**	2	**1.436**	ug/l	14.36	37.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5535176	0.40	6852000	**80.8**	30	-	120	
45	Sc	1	65446	2.17	249000	**26.3**	30	-	120	**IS Fail**
45	Sc	2	245973	0.15	274900	**89.5**	30	-	120	
74	Ge	1	42242	3.59	197500	**21.4**	30	-	120	**IS Fail**
74	Ge	2	362287	1.11	437500	**82.8**	30	-	120	
74	Ge	3	1629141	1.31	1769000	**92.1**	30	-	120	
103	Rh	2	689274	1.20	847200	**81.4**	30	-	120	
103	Rh	3	1394395	1.08	1574000	**88.6**	30	-	120	
165	Ho	3	2955083	1.06	3040000	**97.2**	30	-	120	
175	Lu	3	3228986	0.81	3395000	**95.1**	30	-	120	
209	Bi	3	6207614	0.31	7067000	**87.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\132SMPL.D\132SMPL.D#
Date Acquired: May 29 2010 12:05 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-18-B Vial Number: 4104
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.331**	ug/l	13.31	2.0	450	6	P	
60	**Ni**	2	**911.100**	ug/l	9,111.00	0.1	15000	45	P	
63	**Cu**	2	**139.600**	ug/l	1,396.00	0.5	15000	45	P	
66	**Zn**	2	**168.800**	ug/l	1,688.00	1.8	15000	45	P	
78	**Se**	2	**0.728**	ug/l	7.28	149.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5798750	1.10	6852000	**84.6**	30	-	120	
45	Sc	1	52700	1.25	249000	**21.2**	30	-	120	**IS Fail**
45	Sc	2	255908	0.81	274900	**93.1**	30	-	120	
74	Ge	1	33024	3.10	197500	**16.7**	30	-	120	**IS Fail**
74	Ge	2	376607	1.38	437500	**86.1**	30	-	120	
74	Ge	3	1625465	0.74	1769000	**91.9**	30	-	120	
103	Rh	2	726022	2.60	847200	**85.7**	30	-	120	
103	Rh	3	1425626	1.49	1574000	**90.6**	30	-	120	
165	Ho	3	2974265	0.18	3040000	**97.8**	30	-	120	
175	Lu	3	3257094	0.57	3395000	**95.9**	30	-	120	
209	Bi	3	6386229	1.04	7067000	**90.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\133SMPL.D\133SMPL.D#
Date Acquired: May 29 2010 12:11 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-19-B Vial Number: 4105
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.030**	ug/l	10.30	0.4	450	6	P	
60	**Ni**	2	**1096.000**	ug/l	10,960.00	0.9	15000	45	P	
63	**Cu**	2	**90.350**	ug/l	903.50	0.9	15000	45	P	
66	**Zn**	2	**223.000**	ug/l	2,230.00	1.2	15000	45	P	
78	**Se**	2	**1.124**	ug/l	11.24	71.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5841388	2.00	6852000	**85.3**	30	-	120	
45	Sc	1	55930	2.23	249000	**22.5**	30	-	120	**IS Fail**
45	Sc	2	246075	0.77	274900	**89.5**	30	-	120	
74	Ge	1	35675	3.80	197500	**18.1**	30	-	120	**IS Fail**
74	Ge	2	369134	1.12	437500	**84.4**	30	-	120	
74	Ge	3	1618002	1.00	1769000	**91.5**	30	-	120	
103	Rh	2	717071	2.08	847200	**84.6**	30	-	120	
103	Rh	3	1415965	0.41	1574000	**90.0**	30	-	120	
165	Ho	3	2976549	1.50	3040000	**97.9**	30	-	120	
175	Lu	3	3204183	1.29	3395000	**94.4**	30	-	120	
209	Bi	3	6381395	0.28	7067000	**90.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\134SMPL.D\134SMPL.D#
Date Acquired: May 29 2010 12:17 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-20-B Vial Number: 4106
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.776**	ug/l	7.76	2.5	450	6	P	
60	**Ni**	2	**1862.000**	ug/l	18,620.00	1.4	15000	45	A	
63	**Cu**	2	**52.940**	ug/l	529.40	2.2	15000	45	P	
66	**Zn**	2	**115.100**	ug/l	1,151.00	1.2	15000	45	P	
78	**Se**	2	**0.799**	ug/l	7.99	84.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5718303	0.92	6852000	**83.5**	30	-	120	
45	Sc	1	52486	4.50	249000	**21.1**	30	-	120	**IS Fail**
45	Sc	2	252579	0.72	274900	**91.9**	30	-	120	
74	Ge	1	32613	2.38	197500	**16.5**	30	-	120	**IS Fail**
74	Ge	2	381996	1.52	437500	**87.3**	30	-	120	
74	Ge	3	1675750	1.12	1769000	**94.7**	30	-	120	
103	Rh	2	727098	1.04	847200	**85.8**	30	-	120	
103	Rh	3	1440966	1.21	1574000	**91.5**	30	-	120	
165	Ho	3	3011432	0.54	3040000	**99.1**	30	-	120	
175	Lu	3	3276784	1.35	3395000	**96.5**	30	-	120	
209	Bi	3	6411563	0.05	7067000	**90.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\135SMPL.D\135SMPL.D#
Date Acquired: May 29 2010 12:23 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-21-B Vial Number: 4107
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.074**	ug/l	0.74	3.4	450	6	P	
60	**Ni**	2	**463.700**	ug/l	4,637.00	0.7	15000	45	P	
63	**Cu**	2	**72.670**	ug/l	726.70	0.6	15000	45	P	
66	**Zn**	2	**86.040**	ug/l	860.40	0.9	15000	45	P	
78	**Se**	2	**1.154**	ug/l	11.54	44.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5162519	1.84	6852000	**75.3**	30	-	120	
45	Sc	1	47453	1.72	249000	**19.1**	30	-	120	**IS Fail**
45	Sc	2	232840	1.76	274900	**84.7**	30	-	120	
74	Ge	1	30989	0.68	197500	**15.7**	30	-	120	**IS Fail**
74	Ge	2	365173	2.01	437500	**83.5**	30	-	120	
74	Ge	3	1566849	0.04	1769000	**88.6**	30	-	120	
103	Rh	2	715850	2.50	847200	**84.5**	30	-	120	
103	Rh	3	1370387	1.19	1574000	**87.1**	30	-	120	
165	Ho	3	2912201	1.08	3040000	**95.8**	30	-	120	
175	Lu	3	3179787	1.23	3395000	**93.7**	30	-	120	
209	Bi	3	6530681	0.93	7067000	**92.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\136SMPL.D\136SMPL.D#
Date Acquired: May 29 2010 12:29 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-22-B Vial Number: 4108
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.022**	ug/l	0.22	42.1	450	6	P	
60	**Ni**	2	**4250.000**	ug/l	42,500.00	1.3	15000	45	A	
63	**Cu**	2	**13.700**	ug/l	137.00	3.3	15000	45	P	
66	**Zn**	2	**69.610**	ug/l	696.10	2.3	15000	45	P	
78	**Se**	2	**-0.009**	ug/l	-0.09	7784.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5171171	1.43	6852000	**75.5**	30	-	120	
45	Sc	1	49193	0.85	249000	**19.8**	30	-	120	**IS Fail**
45	Sc	2	242276	0.41	274900	**88.1**	30	-	120	
74	Ge	1	29669	2.41	197500	**15.0**	30	-	120	**IS Fail**
74	Ge	2	356424	1.56	437500	**81.5**	30	-	120	
74	Ge	3	1587863	0.56	1769000	**89.8**	30	-	120	
103	Rh	2	686050	1.18	847200	**81.0**	30	-	120	
103	Rh	3	1354991	0.82	1574000	**86.1**	30	-	120	
165	Ho	3	2906530	0.94	3040000	**95.6**	30	-	120	
175	Lu	3	3163962	1.38	3395000	**93.2**	30	-	120	
209	Bi	3	6100489	1.64	7067000	**86.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\137SMPL.D\137SMPL.D#
Date Acquired: May 29 2010 12:35 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-23-B Vial Number: 4109
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.495**	ug/l	4.95	1.6	450	6	P	
60	**Ni**	2	**517.200**	ug/l	5,172.00	1.2	15000	45	P	
63	**Cu**	2	**24.420**	ug/l	244.20	2.8	15000	45	P	
66	**Zn**	2	**70.680**	ug/l	706.80	1.9	15000	45	P	
78	**Se**	2	**0.426**	ug/l	4.26	38.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5703958	0.59	6852000	**83.2**	30	-	120	
45	Sc	1	46292	1.76	249000	**18.6**	30	-	120	**IS Fail**
45	Sc	2	229651	0.57	274900	**83.5**	30	-	120	
74	Ge	1	31163	2.38	197500	**15.8**	30	-	120	**IS Fail**
74	Ge	2	364020	0.51	437500	**83.2**	30	-	120	
74	Ge	3	1592270	0.49	1769000	**90.0**	30	-	120	
103	Rh	2	720250	0.92	847200	**85.0**	30	-	120	
103	Rh	3	1409707	0.73	1574000	**89.6**	30	-	120	
165	Ho	3	2937080	1.19	3040000	**96.6**	30	-	120	
175	Lu	3	3222438	0.56	3395000	**94.9**	30	-	120	
209	Bi	3	6557511	1.08	7067000	**92.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\138SMPL.D\138SMPL.D#
Date Acquired: May 29 2010 12:42 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-24-B Vial Number: 4110
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.004**	ug/l	0.04	55.0	450	6	P	
60	**Ni**	2	**11.490**	ug/l	114.90	3.8	15000	45	P	
63	**Cu**	2	**1.924**	ug/l	19.24	3.0	15000	45	P	
66	**Zn**	2	**0.646**	ug/l	6.46	15.1	15000	45	P	
78	**Se**	2	**0.026**	ug/l	0.26	1008.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6148933	2.26	6852000	**89.7**	30	-	120	
45	Sc	1	48714	0.67	249000	**19.6**	30	-	120	**IS Fail**
45	Sc	2	232502	0.99	274900	**84.6**	30	-	120	
74	Ge	1	33897	2.31	197500	**17.2**	30	-	120	**IS Fail**
74	Ge	2	380741	0.19	437500	**87.0**	30	-	120	
74	Ge	3	1636378	0.28	1769000	**92.5**	30	-	120	
103	Rh	2	765081	0.22	847200	**90.3**	30	-	120	
103	Rh	3	1479931	1.43	1574000	**94.0**	30	-	120	
165	Ho	3	3002098	0.51	3040000	**98.8**	30	-	120	
175	Lu	3	3263742	1.40	3395000	**96.1**	30	-	120	
209	Bi	3	6919150	0.31	7067000	**97.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\139SMPL.D\139SMPL.D#
Date Acquired: May 29 2010 12:48 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**47.420**	ug/l	47.42	0.8	450	6	P	
60	**Ni**	2	**52.390**	ug/l	52.39	1.2	15000	45	P	
63	**Cu**	2	**52.240**	ug/l	52.24	0.1	15000	45	P	
66	**Zn**	2	**51.970**	ug/l	51.97	2.2	15000	45	P	
78	**Se**	2	**49.740**	ug/l	49.74	2.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6037592	1.36	6852000	**88.1**	30	-	120	
45	Sc	1	50605	1.78	249000	**20.3**	30	-	120	**IS Fail**
45	Sc	2	225119	0.51	274900	**81.9**	30	-	120	
74	Ge	1	36273	0.96	197500	**18.4**	30	-	120	**IS Fail**
74	Ge	2	374468	1.13	437500	**85.6**	30	-	120	
74	Ge	3	1634131	0.56	1769000	**92.4**	30	-	120	
103	Rh	2	735300	0.86	847200	**86.8**	30	-	120	
103	Rh	3	1452802	0.62	1574000	**92.3**	30	-	120	
165	Ho	3	2984954	0.95	3040000	**98.2**	30	-	120	
175	Lu	3	3207500	1.23	3395000	**94.5**	30	-	120	
209	Bi	3	6672263	1.54	7067000	**94.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\140SMPL.D\140SMPL.D#
Date Acquired: May 29 2010 12:54 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.017**	ug/l	0.02	19.9	450	6	P	
60	**Ni**	2	**0.156**	ug/l	0.16	29.5	15000	45	P	
63	**Cu**	2	**0.025**	ug/l	0.02	69.7	15000	45	P	
66	**Zn**	2	**0.247**	ug/l	0.25	32.3	15000	45	P	
78	**Se**	2	**-0.242**	ug/l	-0.24	106.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5860135	0.27	6852000	**85.5**	30	-	120	
45	Sc	1	52871	2.41	249000	**21.2**	30	-	120	**IS Fail**
45	Sc	2	231702	1.76	274900	**84.3**	30	-	120	
74	Ge	1	38530	2.69	197500	**19.5**	30	-	120	**IS Fail**
74	Ge	2	386453	1.26	437500	**88.3**	30	-	120	
74	Ge	3	1644212	0.60	1769000	**92.9**	30	-	120	
103	Rh	2	777981	1.74	847200	**91.8**	30	-	120	
103	Rh	3	1488371	0.48	1574000	**94.6**	30	-	120	
165	Ho	3	3031913	0.82	3040000	**99.7**	30	-	120	
175	Lu	3	3289507	1.51	3395000	**96.9**	30	-	120	
209	Bi	3	6912761	0.53	7067000	**97.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\141SMPL.D\141SMPL.D#
Date Acquired: May 29 2010 01:00 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-25-B Vial Number: 4201
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.006**	ug/l	0.06	18.7	450	6	P	
60	**Ni**	2	**9.237**	ug/l	92.37	4.2	15000	45	P	
63	**Cu**	2	**0.471**	ug/l	4.71	4.9	15000	45	P	
66	**Zn**	2	**0.747**	ug/l	7.47	38.3	15000	45	P	
78	**Se**	2	**0.278**	ug/l	2.78	245.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6112764	0.18	6852000	**89.2**	30	-	120	
45	Sc	1	54729	1.03	249000	**22.0**	30	-	120	**IS Fail**
45	Sc	2	229166	0.95	274900	**83.4**	30	-	120	
74	Ge	1	40175	0.80	197500	**20.3**	30	-	120	**IS Fail**
74	Ge	2	382922	0.79	437500	**87.5**	30	-	120	
74	Ge	3	1644204	1.26	1769000	**92.9**	30	-	120	
103	Rh	2	769316	1.13	847200	**90.8**	30	-	120	
103	Rh	3	1456215	1.84	1574000	**92.5**	30	-	120	
165	Ho	3	2943418	1.07	3040000	**96.8**	30	-	120	
175	Lu	3	3188335	0.74	3395000	**93.9**	30	-	120	
209	Bi	3	6842163	0.86	7067000	**96.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\142SMPL.D\142SMPL.D#
Date Acquired: May 29 2010 01:06 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-26-B Vial Number: 4202
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.005**	ug/l	0.05	22.5	450	6	P	
60	**Ni**	2	**5.518**	ug/l	55.18	1.9	15000	45	P	
63	**Cu**	2	**4.430**	ug/l	44.30	7.2	15000	45	P	
66	**Zn**	2	**5.683**	ug/l	56.83	7.4	15000	45	P	
78	**Se**	2	**-0.238**	ug/l	-2.38	110.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6230415	2.03	6852000	**90.9**	30	-	120	
45	Sc	1	59460	0.90	249000	**23.9**	30	-	120	**IS Fail**
45	Sc	2	227685	1.00	274900	**82.8**	30	-	120	
74	Ge	1	42420	1.43	197500	**21.5**	30	-	120	**IS Fail**
74	Ge	2	384172	0.73	437500	**87.8**	30	-	120	
74	Ge	3	1643023	1.70	1769000	**92.9**	30	-	120	
103	Rh	2	762921	1.01	847200	**90.1**	30	-	120	
103	Rh	3	1475222	1.68	1574000	**93.7**	30	-	120	
165	Ho	3	2932677	0.76	3040000	**96.5**	30	-	120	
175	Lu	3	3212193	1.32	3395000	**94.6**	30	-	120	
209	Bi	3	6810128	0.81	7067000	**96.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\143SMPL.D\143SMPL.D#
Date Acquired: May 29 2010 01:12 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-27-B Vial Number: 4203
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.008**	ug/l	0.08	40.8	450	6	P	
60	**Ni**	2	**4.209**	ug/l	42.09	5.1	15000	45	P	
63	**Cu**	2	**2.695**	ug/l	26.95	1.8	15000	45	P	
66	**Zn**	2	**3.687**	ug/l	36.87	11.0	15000	45	P	
78	**Se**	2	**-0.243**	ug/l	-2.43	184.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6082816	1.89	6852000	**88.8**	30	-	120	
45	Sc	1	63288	3.40	249000	**25.4**	30	-	120	**IS Fail**
45	Sc	2	230476	0.88	274900	**83.8**	30	-	120	
74	Ge	1	46929	2.00	197500	**23.8**	30	-	120	**IS Fail**
74	Ge	2	389581	1.45	437500	**89.0**	30	-	120	
74	Ge	3	1662362	0.81	1769000	**94.0**	30	-	120	
103	Rh	2	762995	2.28	847200	**90.1**	30	-	120	
103	Rh	3	1481930	1.57	1574000	**94.2**	30	-	120	
165	Ho	3	2957056	1.22	3040000	**97.3**	30	-	120	
175	Lu	3	3257385	1.13	3395000	**95.9**	30	-	120	
209	Bi	3	6882254	0.62	7067000	**97.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\144SMPL.D\144SMPL.D#
Date Acquired: May 29 2010 01:19 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-28-B Vial Number: 4204
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.022**	ug/l	10.22	2.9	450	6	P	
60	**Ni**	2	**2190.000**	ug/l	21,900.00	0.6	15000	45	A	
63	**Cu**	2	**59.310**	ug/l	593.10	0.6	15000	45	P	
66	**Zn**	2	**114.300**	ug/l	1,143.00	3.3	15000	45	P	
78	**Se**	2	**0.499**	ug/l	4.99	32.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5616082	1.78	6852000	**82.0**	30	-	120	
45	Sc	1	65704	1.74	249000	**26.4**	30	-	120	**IS Fail**
45	Sc	2	243536	0.30	274900	**88.6**	30	-	120	
74	Ge	1	41764	1.19	197500	**21.1**	30	-	120	**IS Fail**
74	Ge	2	369500	0.81	437500	**84.5**	30	-	120	
74	Ge	3	1602532	0.99	1769000	**90.6**	30	-	120	
103	Rh	2	709501	0.89	847200	**83.7**	30	-	120	
103	Rh	3	1385065	0.63	1574000	**88.0**	30	-	120	
165	Ho	3	2938600	0.77	3040000	**96.7**	30	-	120	
175	Lu	3	3205775	0.57	3395000	**94.4**	30	-	120	
209	Bi	3	6344866	1.64	7067000	**89.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\145SMPL.D\145SMPL.D#
Date Acquired: May 29 2010 01:25 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-29-B Vial Number: 4205
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	*Corr. Conc*	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.626**	ug/l	6.26	2.6	450	6	P	
60	**Ni**	2	**3388.000**	ug/l	33,880.00	2.5	15000	45	A	
63	**Cu**	2	**27.310**	ug/l	273.10	1.4	15000	45	P	
66	**Zn**	2	**78.530**	ug/l	785.30	2.2	15000	45	P	
78	**Se**	2	**1.636**	ug/l	16.36	68.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5370643	1.43	6852000	**78.4**	30	-	120	
45	Sc	1	56798	0.60	249000	**22.8**	30	-	120	**IS Fail**
45	Sc	2	241054	2.18	274900	**87.7**	30	-	120	
74	Ge	1	36213	2.69	197500	**18.3**	30	-	120	**IS Fail**
74	Ge	2	360541	1.70	437500	**82.4**	30	-	120	
74	Ge	3	1562142	1.16	1769000	**88.3**	30	-	120	
103	Rh	2	701014	1.72	847200	**82.7**	30	-	120	
103	Rh	3	1343785	1.05	1574000	**85.4**	30	-	120	
165	Ho	3	2862034	1.58	3040000	**94.1**	30	-	120	
175	Lu	3	3121914	1.27	3395000	**92.0**	30	-	120	
209	Bi	3	6232798	0.46	7067000	**88.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\146SMPL.D\146SMPL.D#
Date Acquired: May 29 2010 01:31 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-30-B Vial Number: 4206
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.163**	ug/l	11.63	3.7	450	6	P	
60	**Ni**	2	**579.500**	ug/l	5,795.00	0.4	15000	45	P	
63	**Cu**	2	**81.230**	ug/l	812.30	0.5	15000	45	P	
66	**Zn**	2	**189.900**	ug/l	1,899.00	0.4	15000	45	P	
78	**Se**	2	**0.257**	ug/l	2.57	62.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5610977	1.75	6852000	**81.9**	30	-	120	
45	Sc	1	56332	1.99	249000	**22.6**	30	-	120	**IS Fail**
45	Sc	2	238532	1.08	274900	**86.8**	30	-	120	
74	Ge	1	35769	1.47	197500	**18.1**	30	-	120	**IS Fail**
74	Ge	2	359265	0.36	437500	**82.1**	30	-	120	
74	Ge	3	1572417	1.41	1769000	**88.9**	30	-	120	
103	Rh	2	700816	1.22	847200	**82.7**	30	-	120	
103	Rh	3	1363171	0.03	1574000	**86.6**	30	-	120	
165	Ho	3	2895256	0.98	3040000	**95.2**	30	-	120	
175	Lu	3	3158096	0.66	3395000	**93.0**	30	-	120	
209	Bi	3	6274243	0.20	7067000	**88.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\147SMPL.D\147SMPL.D#
Date Acquired: May 29 2010 01:37 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**47.030**	ug/l	47.03	0.5	450	6	P	
60	**Ni**	2	**53.670**	ug/l	53.67	1.0	15000	45	P	
63	**Cu**	2	**52.710**	ug/l	52.71	1.0	15000	45	P	
66	**Zn**	2	**51.830**	ug/l	51.83	1.9	15000	45	P	
78	**Se**	2	**48.670**	ug/l	48.67	9.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5981587	1.11	6852000	**87.3**	30	-	120	
45	Sc	1	54538	1.11	249000	**21.9**	30	-	120	**IS Fail**
45	Sc	2	224027	0.25	274900	**81.5**	30	-	120	
74	Ge	1	38788	3.16	197500	**19.6**	30	-	120	**IS Fail**
74	Ge	2	376383	0.50	437500	**86.0**	30	-	120	
74	Ge	3	1648322	0.73	1769000	**93.2**	30	-	120	
103	Rh	2	735400	1.43	847200	**86.8**	30	-	120	
103	Rh	3	1457668	1.82	1574000	**92.6**	30	-	120	
165	Ho	3	2962289	0.42	3040000	**97.4**	30	-	120	
175	Lu	3	3228939	1.13	3395000	**95.1**	30	-	120	
209	Bi	3	6689615	0.95	7067000	**94.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\148SMPL.D\148SMPL.D#
Date Acquired: May 29 2010 01:43 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.021**	ug/l	0.02	32.2	450	6	P	
60	**Ni**	2	**0.332**	ug/l	0.33	22.5	15000	45	P	
63	**Cu**	2	**0.063**	ug/l	0.06	22.9	15000	45	P	
66	**Zn**	2	**0.213**	ug/l	0.21	43.3	15000	45	P	
78	**Se**	2	**0.093**	ug/l	0.09	408.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5771801	1.35	6852000	**84.2**	30	-	120	
45	Sc	1	57066	4.00	249000	**22.9**	30	-	120	**IS Fail**
45	Sc	2	230901	0.79	274900	**84.0**	30	-	120	
74	Ge	1	41132	1.73	197500	**20.8**	30	-	120	**IS Fail**
74	Ge	2	388972	1.86	437500	**88.9**	30	-	120	
74	Ge	3	1643416	0.59	1769000	**92.9**	30	-	120	
103	Rh	2	776172	1.73	847200	**91.6**	30	-	120	
103	Rh	3	1498355	0.60	1574000	**95.2**	30	-	120	
165	Ho	3	2969216	0.90	3040000	**97.7**	30	-	120	
175	Lu	3	3257886	1.05	3395000	**96.0**	30	-	120	
209	Bi	3	6935426	1.83	7067000	**98.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\149SMPL.D\149SMPL.D#
Date Acquired: May 29 2010 01:49 am Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64541/21-A Vial Number: 4301
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.03	80.9	450	6	P	
60	**Ni**	2	**0.127**	ug/l	1.27	23.7	15000	45	P	
63	**Cu**	2	**0.015**	ug/l	0.15	102.6	15000	45	P	
66	**Zn**	2	**0.110**	ug/l	1.10	49.0	15000	45	P	
78	**Se**	2	**-0.251**	ug/l	-2.51	201.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5773800	0.35	6852000	**84.3**	30	-	120	
45	Sc	1	54076	3.71	249000	**21.7**	30	-	120	**IS Fail**
45	Sc	2	234512	0.65	274900	**85.3**	30	-	120	
74	Ge	1	38758	2.77	197500	**19.6**	30	-	120	**IS Fail**
74	Ge	2	391817	0.46	437500	**89.6**	30	-	120	
74	Ge	3	1663548	0.18	1769000	**94.0**	30	-	120	
103	Rh	2	779601	1.48	847200	**92.0**	30	-	120	
103	Rh	3	1495716	0.64	1574000	**95.0**	30	-	120	
165	Ho	3	3010243	0.85	3040000	**99.0**	30	-	120	
175	Lu	3	3305884	0.61	3395000	**97.4**	30	-	120	
209	Bi	3	6962439	1.28	7067000	**98.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\150SMPL.D\150SMPL.D#
Date Acquired: May 29 2010 01:55 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-B SD Vial Number: 4302
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.122**	ug/l	6.10	12.2	450	6	P	
60	**Ni**	2	**973.300**	ug/l	48,665.00	0.5	15000	45	P	
63	**Cu**	2	**5.566**	ug/l	278.30	2.5	15000	45	P	
66	**Zn**	2	**20.000**	ug/l	1,000.00	0.7	15000	45	P	
78	**Se**	2	**0.116**	ug/l	5.78	133.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6041876	2.86	6852000	**88.2**	30	-	120	
45	Sc	1	55723	0.36	249000	**22.4**	30	-	120	**IS Fail**
45	Sc	2	235554	0.89	274900	**85.7**	30	-	120	
74	Ge	1	39092	2.40	197500	**19.8**	30	-	120	**IS Fail**
74	Ge	2	379763	0.46	437500	**86.8**	30	-	120	
74	Ge	3	1658114	1.10	1769000	**93.7**	30	-	120	
103	Rh	2	740988	0.47	847200	**87.5**	30	-	120	
103	Rh	3	1476437	0.65	1574000	**93.8**	30	-	120	
165	Ho	3	2990905	0.84	3040000	**98.4**	30	-	120	
175	Lu	3	3246035	0.61	3395000	**95.6**	30	-	120	
209	Bi	3	6664266	0.26	7067000	**94.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\151SMPL.D\151SMPL.D#
Date Acquired: May 29 2010 02:01 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-B Vial Number: 4303
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.660**	ug/l	6.60	6.6	450	6	P	
60	**Ni**	2	**4048.000**	ug/l	40,480.00	0.5	15000	45	A	
63	**Cu**	2	**23.990**	ug/l	239.90	1.3	15000	45	P	
66	**Zn**	2	**86.250**	ug/l	862.50	0.7	15000	45	P	
78	**Se**	2	**1.455**	ug/l	14.55	68.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5497458	1.44	6852000	**80.2**	30	-	120	
45	Sc	1	59380	2.88	249000	**23.8**	30	-	120	**IS Fail**
45	Sc	2	244041	0.32	274900	**88.8**	30	-	120	
74	Ge	1	36511	1.66	197500	**18.5**	30	-	120	**IS Fail**
74	Ge	2	359416	0.36	437500	**82.2**	30	-	120	
74	Ge	3	1545016	0.74	1769000	**87.3**	30	-	120	
103	Rh	2	701086	1.18	847200	**82.8**	30	-	120	
103	Rh	3	1350480	1.77	1574000	**85.8**	30	-	120	
165	Ho	3	2863837	1.06	3040000	**94.2**	30	-	120	
175	Lu	3	3130954	0.98	3395000	**92.2**	30	-	120	
209	Bi	3	6279704	0.98	7067000	**88.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\152SMPL.D\152SMPL.D#
Date Acquired: May 29 2010 02:08 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-C DU Vial Number: 4304
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.627**	ug/l	6.27	5.7	450	6	P	
60	**Ni**	2	**4073.000**	ug/l	40,730.00	2.1	15000	45	A	
63	**Cu**	2	**23.910**	ug/l	239.10	2.2	15000	45	P	
66	**Zn**	2	**85.860**	ug/l	858.60	2.6	15000	45	P	
78	**Se**	2	**1.317**	ug/l	13.17	13.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5414229	1.81	6852000	**79.0**	30	-	120	
45	Sc	1	60668	0.03	249000	**24.4**	30	-	120	**IS Fail**
45	Sc	2	236171	1.41	274900	**85.9**	30	-	120	
74	Ge	1	38935	2.12	197500	**19.7**	30	-	120	**IS Fail**
74	Ge	2	351361	1.61	437500	**80.3**	30	-	120	
74	Ge	3	1509970	0.95	1769000	**85.4**	30	-	120	
103	Rh	2	685805	1.24	847200	**80.9**	30	-	120	
103	Rh	3	1309231	1.09	1574000	**83.2**	30	-	120	
165	Ho	3	2821159	1.19	3040000	**92.8**	30	-	120	
175	Lu	3	3067308	1.12	3395000	**90.3**	30	-	120	
209	Bi	3	6193566	0.57	7067000	**87.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\153SMPL.D\153SMPL.D#
Date Acquired: May 29 2010 02:14 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-D MS Vial Number: 4305
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.928**	ug/l	96.40	2.8	450	6	P	
60	**Ni**	2	**832.500**	ug/l	41,625.00	0.7	15000	45	P	
63	**Cu**	2	**14.560**	ug/l	728.00	2.0	15000	45	P	
66	**Zn**	2	**35.880**	ug/l	1,794.00	2.1	15000	45	P	
78	**Se**	2	**70.180**	ug/l	3,509.00	10.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5721154	2.37	6852000	**83.5**	30	-	120	
45	Sc	1	61325	1.48	249000	**24.6**	30	-	120	**IS Fail**
45	Sc	2	222697	1.31	274900	**81.0**	30	-	120	
74	Ge	1	43670	1.80	197500	**22.1**	30	-	120	**IS Fail**
74	Ge	2	360539	0.97	437500	**82.4**	30	-	120	
74	Ge	3	1568068	0.29	1769000	**88.6**	30	-	120	
103	Rh	2	706986	0.69	847200	**83.4**	30	-	120	
103	Rh	3	1383333	0.65	1574000	**87.9**	30	-	120	
165	Ho	3	2862072	1.90	3040000	**94.1**	30	-	120	
175	Lu	3	3165301	0.70	3395000	**93.2**	30	-	120	
209	Bi	3	6566691	0.48	7067000	**92.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\154SMPL.D\154SMPL.D#
Date Acquired: May 29 2010 02:20 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-E MSD Vial Number: 4306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.949**	ug/l	97.45	2.8	450	6	P	
60	**Ni**	2	**864.100**	ug/l	43,205.00	1.1	15000	45	P	
63	**Cu**	2	**14.530**	ug/l	726.50	1.1	15000	45	P	
66	**Zn**	2	**36.150**	ug/l	1,807.50	3.0	15000	45	P	
78	**Se**	2	**77.470**	ug/l	3,873.50	1.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5830117	1.37	6852000	**85.1**	30	-	120	
45	Sc	1	61510	2.63	249000	**24.7**	30	-	120	**IS Fail**
45	Sc	2	221590	0.76	274900	**80.6**	30	-	120	
74	Ge	1	42948	2.28	197500	**21.7**	30	-	120	**IS Fail**
74	Ge	2	360220	1.02	437500	**82.3**	30	-	120	
74	Ge	3	1566398	1.57	1769000	**88.5**	30	-	120	
103	Rh	2	715423	2.57	847200	**84.4**	30	-	120	
103	Rh	3	1395779	3.08	1574000	**88.7**	30	-	120	
165	Ho	3	2884289	1.71	3040000	**94.9**	30	-	120	
175	Lu	3	3158325	0.41	3395000	**93.0**	30	-	120	
209	Bi	3	6553722	0.47	7067000	**92.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\155SMPL.D\155SMPL.D#
Date Acquired: May 29 2010 02:26 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-B PDS Vial Number: 4307
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.954**	ug/l	97.70	2.0	450	6	P	
60	**Ni**	2	**862.100**	ug/l	43,105.00	0.6	15000	45	P	
63	**Cu**	2	**14.890**	ug/l	744.50	1.0	15000	45	P	
66	**Zn**	2	**36.850**	ug/l	1,842.50	1.6	15000	45	P	
78	**Se**	2	**75.280**	ug/l	3,764.00	2.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5900160	1.74	6852000	**86.1**	30	-	120	
45	Sc	1	57836	2.01	249000	**23.2**	30	-	120	**IS Fail**
45	Sc	2	222068	0.27	274900	**80.8**	30	-	120	
74	Ge	1	41098	0.45	197500	**20.8**	30	-	120	**IS Fail**
74	Ge	2	361005	0.84	437500	**82.5**	30	-	120	
74	Ge	3	1559667	0.87	1769000	**88.2**	30	-	120	
103	Rh	2	706960	1.47	847200	**83.4**	30	-	120	
103	Rh	3	1374556	0.71	1574000	**87.3**	30	-	120	
165	Ho	3	2886922	0.10	3040000	**95.0**	30	-	120	
175	Lu	3	3180463	0.51	3395000	**93.7**	30	-	120	
209	Bi	3	6520564	0.76	7067000	**92.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\156SMPL.D\156SMPL.D#
Date Acquired: May 29 2010 02:32 am Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64541/22-A Vial Number: 4308
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.833**	ug/l	91.65	4.0	450	6	P	
60	**Ni**	2	**21.080**	ug/l	1,054.00	0.7	15000	45	P	
63	**Cu**	2	**10.650**	ug/l	532.50	1.2	15000	45	P	
66	**Zn**	2	**20.110**	ug/l	1,005.50	3.0	15000	45	P	
78	**Se**	2	**75.490**	ug/l	3,774.50	9.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5592045	1.87	6852000	**81.6**	30	-	120	
45	Sc	1	56667	0.95	249000	**22.8**	30	-	120	**IS Fail**
45	Sc	2	219066	0.39	274900	**79.7**	30	-	120	
74	Ge	1	41346	3.85	197500	**20.9**	30	-	120	**IS Fail**
74	Ge	2	366034	0.46	437500	**83.7**	30	-	120	
74	Ge	3	1573786	1.17	1769000	**89.0**	30	-	120	
103	Rh	2	739696	0.96	847200	**87.3**	30	-	120	
103	Rh	3	1410753	1.50	1574000	**89.6**	30	-	120	
165	Ho	3	2893901	1.45	3040000	**95.2**	30	-	120	
175	Lu	3	3202540	2.19	3395000	**94.3**	30	-	120	
209	Bi	3	6768283	1.51	7067000	**95.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\157SMPL.D\157SMPL.D#
Date Acquired: May 29 2010 02:38 am Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64541/23-A Vial Number: 4309
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.893**	ug/l	94.65	0.8	450	6	P	
60	**Ni**	2	**20.790**	ug/l	1,039.50	5.2	15000	45	P	
63	**Cu**	2	**10.660**	ug/l	533.00	2.2	15000	45	P	
66	**Zn**	2	**20.910**	ug/l	1,045.50	2.6	15000	45	P	
78	**Se**	2	**78.020**	ug/l	3,901.00	9.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5547666	1.23	6852000	**81.0**	30	-	120	
45	Sc	1	60541	1.63	249000	**24.3**	30	-	120	**IS Fail**
45	Sc	2	221031	0.33	274900	**80.4**	30	-	120	
74	Ge	1	42774	1.65	197500	**21.7**	30	-	120	**IS Fail**
74	Ge	2	367890	0.59	437500	**84.1**	30	-	120	
74	Ge	3	1576933	0.71	1769000	**89.1**	30	-	120	
103	Rh	2	744946	0.95	847200	**87.9**	30	-	120	
103	Rh	3	1407045	1.49	1574000	**89.4**	30	-	120	
165	Ho	3	2922518	0.74	3040000	**96.1**	30	-	120	
175	Lu	3	3215929	0.96	3395000	**94.7**	30	-	120	
209	Bi	3	6753841	0.25	7067000	**95.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\158SMPL.D\158SMPL.D#
Date Acquired: May 29 2010 02:44 am Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64541/24-A Vial Number: 4310
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**85.560**	ug/l	1,711.20	0.5	450	6	P	
60	**Ni**	2	**101.600**	ug/l	2,032.00	2.0	15000	45	P	
63	**Cu**	2	**39.130**	ug/l	782.60	2.9	15000	45	P	
66	**Zn**	2	**206.300**	ug/l	4,126.00	1.1	15000	45	P	
78	**Se**	2	**79.380**	ug/l	1,587.60	4.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5794353	0.23	6852000	**84.6**	30	-	120	
45	Sc	1	63995	1.91	249000	**25.7**	30	-	120	**IS Fail**
45	Sc	2	222975	1.50	274900	**81.1**	30	-	120	
74	Ge	1	46404	1.28	197500	**23.5**	30	-	120	**IS Fail**
74	Ge	2	364617	1.25	437500	**83.3**	30	-	120	
74	Ge	3	1592761	0.60	1769000	**90.0**	30	-	120	
103	Rh	2	721772	1.64	847200	**85.2**	30	-	120	
103	Rh	3	1404173	0.97	1574000	**89.2**	30	-	120	
165	Ho	3	2948604	0.58	3040000	**97.0**	30	-	120	
175	Lu	3	3223391	1.73	3395000	**94.9**	30	-	120	
209	Bi	3	6632632	0.63	7067000	**93.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\159SMPL.D\159SMPL.D#
Date Acquired: May 29 2010 02:51 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**47.290**	ug/l	47.29	0.6	450	6	P	
60	**Ni**	2	**50.790**	ug/l	50.79	2.0	15000	45	P	
63	**Cu**	2	**52.100**	ug/l	52.10	1.7	15000	45	P	
66	**Zn**	2	**51.500**	ug/l	51.50	1.4	15000	45	P	
78	**Se**	2	**46.540**	ug/l	46.54	13.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5735400	0.55	6852000	**83.7**	30	-	120	
45	Sc	1	66625	0.37	249000	**26.8**	30	-	120	**IS Fail**
45	Sc	2	220965	0.77	274900	**80.4**	30	-	120	
74	Ge	1	48703	1.44	197500	**24.7**	30	-	120	**IS Fail**
74	Ge	2	368124	0.60	437500	**84.1**	30	-	120	
74	Ge	3	1583338	1.26	1769000	**89.5**	30	-	120	
103	Rh	2	722700	1.43	847200	**85.3**	30	-	120	
103	Rh	3	1405281	0.74	1574000	**89.3**	30	-	120	
165	Ho	3	2923730	0.63	3040000	**96.2**	30	-	120	
175	Lu	3	3178467	1.55	3395000	**93.6**	30	-	120	
209	Bi	3	6612058	0.68	7067000	**93.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\160SMPL.D\160SMPL.D#
Date Acquired: May 29 2010 02:57 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.029**	ug/l	0.03	14.2	450	6	P	
60	**Ni**	2	**0.283**	ug/l	0.28	14.6	15000	45	P	
63	**Cu**	2	**0.049**	ug/l	0.05	20.8	15000	45	P	
66	**Zn**	2	**0.172**	ug/l	0.17	63.2	15000	45	P	
78	**Se**	2	**-0.054**	ug/l	-0.05	737.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5559037	1.75	6852000	**81.1**	30	-	120	
45	Sc	1	68441	0.50	249000	**27.5**	30	-	120	**IS Fail**
45	Sc	2	224627	1.35	274900	**81.7**	30	-	120	
74	Ge	1	50580	0.83	197500	**25.6**	30	-	120	**IS Fail**
74	Ge	2	377281	2.23	437500	**86.2**	30	-	120	
74	Ge	3	1585744	0.83	1769000	**89.6**	30	-	120	
103	Rh	2	754993	2.19	847200	**89.1**	30	-	120	
103	Rh	3	1434984	0.23	1574000	**91.2**	30	-	120	
165	Ho	3	2928209	0.62	3040000	**96.3**	30	-	120	
175	Lu	3	3200720	0.20	3395000	**94.3**	30	-	120	
209	Bi	3	6801162	0.64	7067000	**96.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\161SMPL.D\161SMPL.D#
Date Acquired: May 29 2010 03:03 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-32-B Vial Number: 4401
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.634**	ug/l	6.34	4.3	450	6	P	
60	**Ni**	2	**3692.000**	ug/l	36,920.00	0.9	15000	45	A	
63	**Cu**	2	**25.830**	ug/l	258.30	0.9	15000	45	P	
66	**Zn**	2	**87.330**	ug/l	873.30	2.4	15000	45	P	
78	**Se**	2	**0.271**	ug/l	2.71	117.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5301391	0.52	6852000	**77.4**	30	-	120	
45	Sc	1	75260	3.14	249000	**30.2**	30	-	120	
45	Sc	2	237624	0.94	274900	**86.4**	30	-	120	
74	Ge	1	48964	1.64	197500	**24.8**	30	-	120	**IS Fail**
74	Ge	2	354123	1.04	437500	**80.9**	30	-	120	
74	Ge	3	1504068	0.84	1769000	**85.0**	30	-	120	
103	Rh	2	689727	1.42	847200	**81.4**	30	-	120	
103	Rh	3	1321998	1.51	1574000	**84.0**	30	-	120	
165	Ho	3	2840681	1.29	3040000	**93.4**	30	-	120	
175	Lu	3	3114673	0.64	3395000	**91.7**	30	-	120	
209	Bi	3	6279028	1.58	7067000	**88.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\162SMPL.D\162SMPL.D#
Date Acquired: May 29 2010 03:09 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-1-E Vial Number: 4402
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.920**	ug/l	9.20	2.9	450	6	P	
60	**Ni**	2	**837.200**	ug/l	8,372.00	0.7	15000	45	P	
63	**Cu**	2	**52.670**	ug/l	526.70	0.8	15000	45	P	
66	**Zn**	2	**116.200**	ug/l	1,162.00	0.5	15000	45	P	
78	**Se**	2	**0.851**	ug/l	8.51	85.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5421386	1.47	6852000	**79.1**	30	-	120	
45	Sc	1	74911	0.91	249000	**30.1**	30	-	120	
45	Sc	2	235504	0.30	274900	**85.7**	30	-	120	
74	Ge	1	50637	2.45	197500	**25.6**	30	-	120	**IS Fail**
74	Ge	2	351118	0.87	437500	**80.3**	30	-	120	
74	Ge	3	1524762	0.65	1769000	**86.2**	30	-	120	
103	Rh	2	670035	0.19	847200	**79.1**	30	-	120	
103	Rh	3	1300655	1.85	1574000	**82.6**	30	-	120	
165	Ho	3	2820460	0.67	3040000	**92.8**	30	-	120	
175	Lu	3	3085701	0.99	3395000	**90.9**	30	-	120	
209	Bi	3	6105108	0.98	7067000	**86.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\163SMPL.D\163SMPL.D#
Date Acquired: May 29 2010 03:15 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-2-B Vial Number: 4403
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.880**	ug/l	8.80	1.4	450	6	P	
60	**Ni**	2	**1121.000**	ug/l	11,210.00	1.0	15000	45	P	
63	**Cu**	2	**53.070**	ug/l	530.70	1.9	15000	45	P	
66	**Zn**	2	**101.900**	ug/l	1,019.00	0.5	15000	45	P	
78	**Se**	2	**1.074**	ug/l	10.74	88.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5574345	0.17	6852000	**81.4**	30	-	120	
45	Sc	1	68964	1.32	249000	**27.7**	30	-	120	**IS Fail**
45	Sc	2	235695	1.02	274900	**85.7**	30	-	120	
74	Ge	1	44611	3.72	197500	**22.6**	30	-	120	**IS Fail**
74	Ge	2	345291	1.78	437500	**78.9**	30	-	120	
74	Ge	3	1533405	1.23	1769000	**86.7**	30	-	120	
103	Rh	2	667098	1.74	847200	**78.7**	30	-	120	
103	Rh	3	1293013	2.24	1574000	**82.1**	30	-	120	
165	Ho	3	2808370	1.48	3040000	**92.4**	30	-	120	
175	Lu	3	3061527	0.24	3395000	**90.2**	30	-	120	
209	Bi	3	5987950	0.83	7067000	**84.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\164SMPL.D\164SMPL.D#
Date Acquired: May 29 2010 03:21 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-3-B Vial Number: 4404
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.786**	ug/l	17.86	4.1	450	6	P	
60	**Ni**	2	**374.300**	ug/l	3,743.00	1.9	15000	45	P	
63	**Cu**	2	**198.400**	ug/l	1,984.00	1.6	15000	45	P	
66	**Zn**	2	**13430.000**	ug/l	134,300.00	2.1	15000	45	A	
78	**Se**	2	**2.542**	ug/l	25.42	34.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5714849	1.56	6852000	**83.4**	30	-	120	
45	Sc	1	63486	3.43	249000	**25.5**	30	-	120	**IS Fail**
45	Sc	2	230957	1.91	274900	**84.0**	30	-	120	
74	Ge	1	42476	2.34	197500	**21.5**	30	-	120	**IS Fail**
74	Ge	2	351860	1.65	437500	**80.4**	30	-	120	
74	Ge	3	1521311	1.62	1769000	**86.0**	30	-	120	
103	Rh	2	676717	1.98	847200	**79.9**	30	-	120	
103	Rh	3	1322195	1.68	1574000	**84.0**	30	-	120	
165	Ho	3	2859052	0.39	3040000	**94.0**	30	-	120	
175	Lu	3	3135981	2.29	3395000	**92.4**	30	-	120	
209	Bi	3	6215128	0.72	7067000	**87.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\165SMPL.D\165SMPL.D#
Date Acquired: May 29 2010 03:27 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-4-B Vial Number: 4405
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.862**	ug/l	8.62	6.2	450	6	P	
60	**Ni**	2	**1131.000**	ug/l	11,310.00	1.1	15000	45	P	
63	**Cu**	2	**53.590**	ug/l	535.90	1.5	15000	45	P	
66	**Zn**	2	**131.400**	ug/l	1,314.00	0.5	15000	45	P	
78	**Se**	2	**1.225**	ug/l	12.25	62.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5692833	2.00	6852000	**83.1**	30	-	120	
45	Sc	1	57980	2.26	249000	**23.3**	30	-	120	**IS Fail**
45	Sc	2	234885	1.35	274900	**85.4**	30	-	120	
74	Ge	1	37223	2.36	197500	**18.8**	30	-	120	**IS Fail**
74	Ge	2	351528	0.79	437500	**80.3**	30	-	120	
74	Ge	3	1523951	1.07	1769000	**86.1**	30	-	120	
103	Rh	2	673116	0.97	847200	**79.5**	30	-	120	
103	Rh	3	1313161	2.26	1574000	**83.4**	30	-	120	
165	Ho	3	2815307	0.85	3040000	**92.6**	30	-	120	
175	Lu	3	3105766	0.92	3395000	**91.5**	30	-	120	
209	Bi	3	6071139	0.51	7067000	**85.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\166SMPL.D\166SMPL.D#
Date Acquired: May 29 2010 03:33 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-5-B Vial Number: 4406
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.808**	ug/l	8.08	1.5	450	6	P	
60	**Ni**	2	**234.000**	ug/l	2,340.00	0.7	15000	45	P	
63	**Cu**	2	**77.210**	ug/l	772.10	1.2	15000	45	P	
66	**Zn**	2	**179.300**	ug/l	1,793.00	2.1	15000	45	P	
78	**Se**	2	**0.904**	ug/l	9.04	29.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5845915	1.90	6852000	**85.3**	30	-	120	
45	Sc	1	58449	2.58	249000	**23.5**	30	-	120	**IS Fail**
45	Sc	2	232096	0.08	274900	**84.4**	30	-	120	
74	Ge	1	37521	2.44	197500	**19.0**	30	-	120	**IS Fail**
74	Ge	2	358524	1.39	437500	**81.9**	30	-	120	
74	Ge	3	1554364	0.70	1769000	**87.9**	30	-	120	
103	Rh	2	692392	1.25	847200	**81.7**	30	-	120	
103	Rh	3	1338202	0.71	1574000	**85.0**	30	-	120	
165	Ho	3	2852001	0.46	3040000	**93.8**	30	-	120	
175	Lu	3	3109636	1.99	3395000	**91.6**	30	-	120	
209	Bi	3	6224781	1.95	7067000	**88.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\167SMPL.D\167SMPL.D#
Date Acquired: May 29 2010 03:40 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-6-B Vial Number: 4407
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.740**	ug/l	7.40	2.6	450	6	P	
60	**Ni**	2	**260.400**	ug/l	2,604.00	0.8	15000	45	P	
63	**Cu**	2	**62.250**	ug/l	622.50	0.9	15000	45	P	
66	**Zn**	2	**129.200**	ug/l	1,292.00	1.8	15000	45	P	
78	**Se**	2	**0.826**	ug/l	8.26	51.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5788536	0.67	6852000	**84.5**	30	-	120	
45	Sc	1	56463	0.68	249000	**22.7**	30	-	120	**IS Fail**
45	Sc	2	226850	0.81	274900	**82.5**	30	-	120	
74	Ge	1	38009	2.67	197500	**19.2**	30	-	120	**IS Fail**
74	Ge	2	355595	0.79	437500	**81.3**	30	-	120	
74	Ge	3	1550523	0.69	1769000	**87.6**	30	-	120	
103	Rh	2	697124	1.37	847200	**82.3**	30	-	120	
103	Rh	3	1365365	0.66	1574000	**86.7**	30	-	120	
165	Ho	3	2856324	0.75	3040000	**94.0**	30	-	120	
175	Lu	3	3125089	0.82	3395000	**92.0**	30	-	120	
209	Bi	3	6302369	0.46	7067000	**89.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\168SMPL.D\168SMPL.D#
Date Acquired: May 29 2010 03:46 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-7-B Vial Number: 4408
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.191**	ug/l	11.91	3.5	450	6	P	
60	**Ni**	2	**965.900**	ug/l	9,659.00	0.8	15000	45	P	
63	**Cu**	2	**78.980**	ug/l	789.80	1.0	15000	45	P	
66	**Zn**	2	**1936.000**	ug/l	19,360.00	0.7	15000	45	P	
78	**Se**	2	**1.251**	ug/l	12.51	61.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5662868	1.63	6852000	**82.6**	30	-	120	
45	Sc	1	63539	2.40	249000	**25.5**	30	-	120	**IS Fail**
45	Sc	2	236597	0.39	274900	**86.1**	30	-	120	
74	Ge	1	40366	1.26	197500	**20.4**	30	-	120	**IS Fail**
74	Ge	2	346892	1.26	437500	**79.3**	30	-	120	
74	Ge	3	1525547	0.62	1769000	**86.2**	30	-	120	
103	Rh	2	660407	0.95	847200	**78.0**	30	-	120	
103	Rh	3	1304151	0.82	1574000	**82.9**	30	-	120	
165	Ho	3	2836996	0.08	3040000	**93.3**	30	-	120	
175	Lu	3	3073311	1.64	3395000	**90.5**	30	-	120	
209	Bi	3	6013539	1.34	7067000	**85.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\169SMPL.D\169SMPL.D#
Date Acquired: May 29 2010 03:52 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-8-B Vial Number: 4409
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.320**	ug/l	3.20	3.0	450	6	P	
60	**Ni**	2	**2279.000**	ug/l	22,790.00	1.8	15000	45	A	
63	**Cu**	2	**27.880**	ug/l	278.80	0.5	15000	45	P	
66	**Zn**	2	**89.260**	ug/l	892.60	1.6	15000	45	P	
78	**Se**	2	**0.605**	ug/l	6.05	141.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5467680	1.08	6852000	**79.8**	30	-	120	
45	Sc	1	60937	3.84	249000	**24.5**	30	-	120	**IS Fail**
45	Sc	2	227651	0.89	274900	**82.8**	30	-	120	
74	Ge	1	38453	3.20	197500	**19.5**	30	-	120	**IS Fail**
74	Ge	2	341573	1.11	437500	**78.1**	30	-	120	
74	Ge	3	1486192	1.92	1769000	**84.0**	30	-	120	
103	Rh	2	654332	1.50	847200	**77.2**	30	-	120	
103	Rh	3	1273653	1.74	1574000	**80.9**	30	-	120	
165	Ho	3	2757527	0.31	3040000	**90.7**	30	-	120	
175	Lu	3	3046889	1.23	3395000	**89.7**	30	-	120	
209	Bi	3	5860138	0.91	7067000	**82.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\170SMPL.D\170SMPL.D#
Date Acquired: May 29 2010 03:58 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-9-B Vial Number: 4410
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.974**	ug/l	9.74	0.7	450	6	P	
60	**Ni**	2	**1248.000**	ug/l	12,480.00	1.2	15000	45	A	
63	**Cu**	2	**55.530**	ug/l	555.30	0.7	15000	45	P	
66	**Zn**	2	**123.400**	ug/l	1,234.00	1.8	15000	45	P	
78	**Se**	2	**1.984**	ug/l	19.84	34.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5614688	0.66	6852000	**81.9**	30	-	120	
45	Sc	1	63004	2.98	249000	**25.3**	30	-	120	**IS Fail**
45	Sc	2	239906	1.15	274900	**87.3**	30	-	120	
74	Ge	1	38136	3.13	197500	**19.3**	30	-	120	**IS Fail**
74	Ge	2	349706	1.71	437500	**79.9**	30	-	120	
74	Ge	3	1518120	1.68	1769000	**85.8**	30	-	120	
103	Rh	2	664253	1.38	847200	**78.4**	30	-	120	
103	Rh	3	1303976	0.24	1574000	**82.8**	30	-	120	
165	Ho	3	2792226	1.99	3040000	**91.8**	30	-	120	
175	Lu	3	3049644	0.30	3395000	**89.8**	30	-	120	
209	Bi	3	5977550	0.34	7067000	**84.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\171SMPL.D\171SMPL.D#
Date Acquired: May 29 2010 04:04 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**47.310**	ug/l	47.31	1.4	450	6	P	
60	**Ni**	2	**51.430**	ug/l	51.43	1.9	15000	45	P	
63	**Cu**	2	**51.330**	ug/l	51.33	1.7	15000	45	P	
66	**Zn**	2	**50.250**	ug/l	50.25	2.2	15000	45	P	
78	**Se**	2	**47.280**	ug/l	47.28	4.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5931678	2.05	6852000	**86.6**	30	-	120	
45	Sc	1	55405	1.71	249000	**22.3**	30	-	120	**IS Fail**
45	Sc	2	224478	0.57	274900	**81.7**	30	-	120	
74	Ge	1	39249	2.41	197500	**19.9**	30	-	120	**IS Fail**
74	Ge	2	374265	0.74	437500	**85.5**	30	-	120	
74	Ge	3	1641611	1.46	1769000	**92.8**	30	-	120	
103	Rh	2	733118	1.84	847200	**86.5**	30	-	120	
103	Rh	3	1436844	1.69	1574000	**91.3**	30	-	120	
165	Ho	3	2934116	0.33	3040000	**96.5**	30	-	120	
175	Lu	3	3230030	0.97	3395000	**95.1**	30	-	120	
209	Bi	3	6661236	1.05	7067000	**94.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\172SMPL.D\172SMPL.D#
Date Acquired: May 29 2010 04:10 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.024**	ug/l	0.02	33.7	450	6	P	
60	**Ni**	2	**0.308**	ug/l	0.31	24.3	15000	45	P	
63	**Cu**	2	**0.037**	ug/l	0.04	27.4	15000	45	P	
66	**Zn**	2	**0.270**	ug/l	0.27	51.0	15000	45	P	
78	**Se**	2	**-0.323**	ug/l	-0.32	166.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6004013	1.04	6852000	**87.6**	30	-	120	
45	Sc	1	55101	1.65	249000	**22.1**	30	-	120	**IS Fail**
45	Sc	2	225715	0.29	274900	**82.1**	30	-	120	
74	Ge	1	40670	0.60	197500	**20.6**	30	-	120	**IS Fail**
74	Ge	2	379262	0.91	437500	**86.7**	30	-	120	
74	Ge	3	1607753	0.23	1769000	**90.9**	30	-	120	
103	Rh	2	757181	1.14	847200	**89.4**	30	-	120	
103	Rh	3	1442245	0.78	1574000	**91.6**	30	-	120	
165	Ho	3	2926349	0.80	3040000	**96.3**	30	-	120	
175	Lu	3	3272200	1.51	3395000	**96.4**	30	-	120	
209	Bi	3	6779968	0.17	7067000	**95.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\173SMPL.D\173SMPL.D#
Date Acquired: May 29 2010 04:16 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-10-B Vial Number: 4501
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.761**	ug/l	0.76	1.3	450	6	P	
60	**Ni**	2	**553.800**	ug/l	553.80	0.6	15000	45	P	
63	**Cu**	2	**51.510**	ug/l	51.51	1.1	15000	45	P	
66	**Zn**	2	**149.400**	ug/l	149.40	0.8	15000	45	P	
78	**Se**	2	**-0.015**	ug/l	-0.01	1072.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5830535	0.62	6852000	**85.1**	30	-	120	
45	Sc	1	57450	0.58	249000	**23.1**	30	-	120	**IS Fail**
45	Sc	2	230554	0.75	274900	**83.9**	30	-	120	
74	Ge	1	38149	2.12	197500	**19.3**	30	-	120	**IS Fail**
74	Ge	2	356760	0.56	437500	**81.5**	30	-	120	
74	Ge	3	1548167	0.70	1769000	**87.5**	30	-	120	
103	Rh	2	689523	1.59	847200	**81.4**	30	-	120	
103	Rh	3	1330746	1.26	1574000	**84.5**	30	-	120	
165	Ho	3	2843691	0.64	3040000	**93.5**	30	-	120	
175	Lu	3	3102936	1.18	3395000	**91.4**	30	-	120	
209	Bi	3	6247672	1.28	7067000	**88.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\174SMPL.D\174SMPL.D#
Date Acquired: May 29 2010 04:22 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-11-B Vial Number: 4502
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.830**	ug/l	0.83	2.9	450	6	P	
60	**Ni**	2	**1466.000**	ug/l	1,466.00	2.1	15000	45	A	
63	**Cu**	2	**64.770**	ug/l	64.77	0.8	15000	45	P	
66	**Zn**	2	**131.000**	ug/l	131.00	1.5	15000	45	P	
78	**Se**	2	**1.424**	ug/l	1.42	69.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5537393	0.81	6852000	**80.8**	30	-	120	
45	Sc	1	57986	2.18	249000	**23.3**	30	-	120	**IS Fail**
45	Sc	2	230232	0.79	274900	**83.8**	30	-	120	
74	Ge	1	36701	2.73	197500	**18.6**	30	-	120	**IS Fail**
74	Ge	2	348599	0.66	437500	**79.7**	30	-	120	
74	Ge	3	1527311	1.90	1769000	**86.3**	30	-	120	
103	Rh	2	669476	0.92	847200	**79.0**	30	-	120	
103	Rh	3	1308829	0.76	1574000	**83.2**	30	-	120	
165	Ho	3	2781740	0.36	3040000	**91.5**	30	-	120	
175	Lu	3	3042606	0.23	3395000	**89.6**	30	-	120	
209	Bi	3	5982965	0.47	7067000	**84.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\175SMPL.D\175SMPL.D#
Date Acquired: May 29 2010 04:28 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-12-B Vial Number: 4503
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.644**	ug/l	0.64	6.6	450	6	P	
60	**Ni**	2	**1209.000**	ug/l	1,209.00	1.2	15000	45	P	
63	**Cu**	2	**43.010**	ug/l	43.01	0.3	15000	45	P	
66	**Zn**	2	**127.400**	ug/l	127.40	0.7	15000	45	P	
78	**Se**	2	**0.098**	ug/l	0.10	297.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5549474	0.36	6852000	**81.0**	30	-	120	
45	Sc	1	53339	1.64	249000	**21.4**	30	-	120	**IS Fail**
45	Sc	2	224140	0.09	274900	**81.5**	30	-	120	
74	Ge	1	35154	0.70	197500	**17.8**	30	-	120	**IS Fail**
74	Ge	2	349149	1.12	437500	**79.8**	30	-	120	
74	Ge	3	1510450	0.87	1769000	**85.4**	30	-	120	
103	Rh	2	667558	0.68	847200	**78.8**	30	-	120	
103	Rh	3	1295251	0.59	1574000	**82.3**	30	-	120	
165	Ho	3	2788394	0.88	3040000	**91.7**	30	-	120	
175	Lu	3	3048343	0.79	3395000	**89.8**	30	-	120	
209	Bi	3	6014121	0.36	7067000	**85.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\176SMPL.D\176SMPL.D#
Date Acquired: May 29 2010 04:35 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-13-B Vial Number: 4504
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.015**	ug/l	0.01	6.6	450	6	P	
60	**Ni**	2	**3742.000**	ug/l	3,742.00	2.2	15000	45	A	
63	**Cu**	2	**17.050**	ug/l	17.05	1.1	15000	45	P	
66	**Zn**	2	**45.840**	ug/l	45.84	2.0	15000	45	P	
78	**Se**	2	**0.460**	ug/l	0.46	59.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5310523	0.48	6852000	**77.5**	30	-	120	
45	Sc	1	57005	2.28	249000	**22.9**	30	-	120	**IS Fail**
45	Sc	2	212528	2.40	274900	**77.3**	30	-	120	
74	Ge	1	36544	0.71	197500	**18.5**	30	-	120	**IS Fail**
74	Ge	2	325346	2.62	437500	**74.4**	30	-	120	
74	Ge	3	1411408	1.18	1769000	**79.8**	30	-	120	
103	Rh	2	622240	1.38	847200	**73.4**	30	-	120	
103	Rh	3	1228333	0.22	1574000	**78.0**	30	-	120	
165	Ho	3	2587965	0.61	3040000	**85.1**	30	-	120	
175	Lu	3	2867042	0.08	3395000	**84.4**	30	-	120	
209	Bi	3	5496388	0.73	7067000	**77.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\177SMPL.D\177SMPL.D#
Date Acquired: May 29 2010 04:41 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-14-B Vial Number: 4505
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.638**	ug/l	0.64	5.4	450	6	P	
60	**Ni**	2	**4605.000**	ug/l	4,605.00	0.7	15000	45	A	
63	**Cu**	2	**27.130**	ug/l	27.13	0.7	15000	45	P	
66	**Zn**	2	**85.070**	ug/l	85.07	1.4	15000	45	P	
78	**Se**	2	**0.824**	ug/l	0.82	52.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5200093	1.79	6852000	**75.9**	30	-	120	
45	Sc	1	53949	2.31	249000	**21.7**	30	-	120	**IS Fail**
45	Sc	2	224823	0.82	274900	**81.8**	30	-	120	
74	Ge	1	34044	2.28	197500	**17.2**	30	-	120	**IS Fail**
74	Ge	2	334452	1.15	437500	**76.4**	30	-	120	
74	Ge	3	1464505	0.47	1769000	**82.8**	30	-	120	
103	Rh	2	652703	1.69	847200	**77.0**	30	-	120	
103	Rh	3	1259513	1.15	1574000	**80.0**	30	-	120	
165	Ho	3	2743686	0.41	3040000	**90.3**	30	-	120	
175	Lu	3	3018394	0.75	3395000	**88.9**	30	-	120	
209	Bi	3	5928233	1.10	7067000	**83.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\178SMPL.D\178SMPL.D#
Date Acquired: May 29 2010 04:47 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-15-B Vial Number: 4506
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.660**	ug/l	0.66	1.5	450	6	P	
60	**Ni**	2	**853.600**	ug/l	853.60	0.2	15000	45	P	
63	**Cu**	2	**83.330**	ug/l	83.33	0.9	15000	45	P	
66	**Zn**	2	**146.100**	ug/l	146.10	0.5	15000	45	P	
78	**Se**	2	**0.324**	ug/l	0.32	191.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5517274	0.98	6852000	**80.5**	30	-	120	
45	Sc	1	54150	1.48	249000	**21.7**	30	-	120	**IS Fail**
45	Sc	2	218914	1.21	274900	**79.6**	30	-	120	
74	Ge	1	34980	2.09	197500	**17.7**	30	-	120	**IS Fail**
74	Ge	2	337789	0.93	437500	**77.2**	30	-	120	
74	Ge	3	1492653	0.15	1769000	**84.4**	30	-	120	
103	Rh	2	655095	1.51	847200	**77.3**	30	-	120	
103	Rh	3	1297147	1.17	1574000	**82.4**	30	-	120	
165	Ho	3	2758702	0.29	3040000	**90.7**	30	-	120	
175	Lu	3	2985711	1.42	3395000	**87.9**	30	-	120	
209	Bi	3	5943562	0.25	7067000	**84.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\179SMPL.D\179SMPL.D#
Date Acquired: May 29 2010 04:53 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**46.680**	ug/l	46.68	0.7	450	6	P	
60	**Ni**	2	**51.720**	ug/l	51.72	0.6	15000	45	P	
63	**Cu**	2	**51.300**	ug/l	51.30	1.3	15000	45	P	
66	**Zn**	2	**51.490**	ug/l	51.49	2.8	15000	45	P	
78	**Se**	2	**43.930**	ug/l	43.93	7.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5731343	0.97	6852000	**83.6**	30	-	120	
45	Sc	1	55656	1.50	249000	**22.4**	30	-	120	**IS Fail**
45	Sc	2	215666	0.73	274900	**78.5**	30	-	120	
74	Ge	1	40460	0.09	197500	**20.5**	30	-	120	**IS Fail**
74	Ge	2	361671	1.09	437500	**82.7**	30	-	120	
74	Ge	3	1585338	1.57	1769000	**89.6**	30	-	120	
103	Rh	2	714575	0.96	847200	**84.3**	30	-	120	
103	Rh	3	1397423	1.59	1574000	**88.8**	30	-	120	
165	Ho	3	2916510	2.23	3040000	**95.9**	30	-	120	
175	Lu	3	3166945	0.40	3395000	**93.3**	30	-	120	
209	Bi	3	6551136	0.89	7067000	**92.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\180SMPL.D\180SMPL.D#
Date Acquired: May 29 2010 04:59 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.023**	ug/l	0.02	22.4	450	6	P	
60	**Ni**	2	**0.478**	ug/l	0.48	7.3	15000	45	P	
63	**Cu**	2	**0.046**	ug/l	0.05	30.9	15000	45	P	
66	**Zn**	2	**0.261**	ug/l	0.26	40.7	15000	45	P	
78	**Se**	2	**0.130**	ug/l	0.13	315.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5672180	2.07	6852000	**82.8**	30	-	120	
45	Sc	1	56992	2.21	249000	**22.9**	30	-	120	**IS Fail**
45	Sc	2	221392	1.64	274900	**80.5**	30	-	120	
74	Ge	1	41741	1.59	197500	**21.1**	30	-	120	**IS Fail**
74	Ge	2	373639	0.91	437500	**85.4**	30	-	120	
74	Ge	3	1587659	0.33	1769000	**89.7**	30	-	120	
103	Rh	2	750384	1.59	847200	**88.6**	30	-	120	
103	Rh	3	1428105	0.51	1574000	**90.7**	30	-	120	
165	Ho	3	2895690	0.51	3040000	**95.3**	30	-	120	
175	Lu	3	3170071	1.85	3395000	**93.4**	30	-	120	
209	Bi	3	6662228	0.20	7067000	**94.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\181SMPL.D\181SMPL.D#
Date Acquired: May 29 2010 05:05 am Acq. Method: 0NEW_ALL.M
Sample Name: ICSA Vial Number: 1101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.008**	ug/l	0.01	27.4	450	6	P	
60	**Ni**	2	**2.769**	ug/l	2.77	6.9	15000	45	P	
63	**Cu**	2	**3.938**	ug/l	3.94	2.4	15000	45	P	
66	**Zn**	2	**3.381**	ug/l	3.38	4.4	15000	45	P	
78	**Se**	2	**-0.273**	ug/l	-0.27	60.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5258028	0.57	6852000	**76.7**	30	-	120	
45	Sc	1	56077	1.77	249000	**22.5**	30	-	120	**IS Fail**
45	Sc	2	213813	0.99	274900	**77.8**	30	-	120	
74	Ge	1	38450	0.92	197500	**19.5**	30	-	120	**IS Fail**
74	Ge	2	341813	1.47	437500	**78.1**	30	-	120	
74	Ge	3	1478788	0.43	1769000	**83.6**	30	-	120	
103	Rh	2	610216	2.09	847200	**72.0**	30	-	120	
103	Rh	3	1216515	0.78	1574000	**77.3**	30	-	120	
165	Ho	3	2620026	0.84	3040000	**86.2**	30	-	120	
175	Lu	3	2885240	0.41	3395000	**85.0**	30	-	120	
209	Bi	3	5386660	0.87	7067000	**76.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\182SMPL.D\182SMPL.D#
Date Acquired: May 29 2010 05:11 am Acq. Method: 0NEW_ALL.M
Sample Name: ICSAB Vial Number: 1102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	184.3	450	6	P	
60	**Ni**	2	**196.200**	ug/l	196.20	0.1	15000	45	P	
63	**Cu**	2	**194.700**	ug/l	194.70	0.5	15000	45	P	
66	**Zn**	2	**99.130**	ug/l	99.13	1.7	15000	45	P	
78	**Se**	2	**105.200**	ug/l	105.20	6.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5293733	2.30	6852000	**77.3**	30	-	120	
45	Sc	1	53018	1.33	249000	**21.3**	30	-	120	**IS Fail**
45	Sc	2	209544	1.52	274900	**76.2**	30	-	120	
74	Ge	1	35278	0.80	197500	**17.9**	30	-	120	**IS Fail**
74	Ge	2	333353	0.98	437500	**76.2**	30	-	120	
74	Ge	3	1491487	1.44	1769000	**84.3**	30	-	120	
103	Rh	2	595603	1.21	847200	**70.3**	30	-	120	
103	Rh	3	1218525	0.04	1574000	**77.4**	30	-	120	
165	Ho	3	2626760	2.04	3040000	**86.4**	30	-	120	
175	Lu	3	2862901	0.43	3395000	**84.3**	30	-	120	
209	Bi	3	5395621	0.85	7067000	**76.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

Metals Worksheet

Batch Number: 580-64500
Method: 7471A
Analyst: Boritz, Ben A

Date Open: May 27 2010 10:21AM
Batch End: May 27 2010 11:30AM

Lab ID	Client ID	Method Chain	Basis	Target Amount of Sample to Use	Initial weight/volume of sample	Final weight/volume of sample	Hg_SPK_WORK_00002	SRMsolid_00004
580-19393-A-17			T	11.0042 g	0.8209 g	50 mL		
580-19393-A-17~DU			T		0.6172 g	50 mL		
580-19393-A-17~MS			T		0.7563 g	50 mL	1 mL	
580-19393-A-17~MSD			T		0.7667 g	50 mL	1 mL	
580-19393-A-18			T	12.8788 g	0.6350 g	50 mL		
580-19393-A-19			T	11.3134 g	0.7369 g	50 mL		
580-19393-A-20			T	10.8143 g	0.8196 g	50 mL		
580-19399-A-1	02SMRT1	7471A, 7471A	T	11.9469 g	0.8031 g	50 mL		
580-19399-A-2	01SMSS	7471A, 7471A	T	14.1469 g	0.7163 g	50 mL		
580-19399-A-3	02SMSS	7471A, 7471A	T	11.8991 g	0.7213 g	50 mL		
580-19399-A-4	01CSBG		T	10.1903 g	0.8526 g	50 mL		
580-19399-A-5	03SMRT1	7471A, 7471A	T	11.0052 g	0.5914 g	50 mL		
580-19399-A-6	04SMRT1	7471A, 7471A	T	10.9016 g	0.5813 g	50 mL		
580-19399-A-7	05SMRT1	7471A, 7471A	T	11.041 g	0.6533 g	50 mL		
580-19399-A-8	06SMRT1	7471A, 7471A	T	12.7936 g	0.7961 g	50 mL		
580-19399-A-11	10SMSS	7471A, 7471A	T	10.8528 g	0.6465 g	50 mL		
580-19399-A-13	03SMSS	7471A, 7471A	T	10.7855 g	0.6885 g	50 mL		
580-19399-A-14	01SMRT2	7471A, 7471A	T	10.4521 g	0.6923 g	50 mL		
580-19399-A-15	02SMRT2	7471A, 7471A	T	10.4957 g	0.7532 g	50 mL		
580-19399-A-16	03SMRT2	7471A, 7471A	T	11.1935 g	0.8363 g	50 mL		
580-19399-A-17	04SMRT2	7471A, 7471A	T	10.6034 g	0.5282 g	50 mL		
580-19399-A-18	05SMRT2	7471A, 7471A	T	10.879 g	0.8910 g	50 mL		
580-19399-A-19	06SMRT2	7471A, 7471A	T	12.4981 g	0.5739 g	50 mL		
MB~580-64500/24		7471A, 7471A			0.5 g	50 mL		
LCS~580-64500/25		7471A, 7471A			.5 g	50 mL	1 mL	

Metals Worksheet

Batch Number: 580-64500
Method: 7471A
Analyst: Boritz, Ben A

Date Open: May 27 2010 10:21AM
Batch End: May 27 2010 11:30AM

Lab ID	Client ID	Method Chain	Basis	Target Amount of Sample to Use	Initial weight/volume of sample	Final weight/volume of sample	Hg_SPK_WORK_0000 2	SRMsolid_00004
LCSD~580-64500/26		7471A, 7471A			.5 g	50 mL	1 mL	
LCSSRM~580-64500/27		7471A, 7471A			0.1302 g	50 mL		0.1302 g

Nominal Amount Used:	10 g
Digestion Tube/Cup Lot #:	100121
Hot Block ID number:	38008
Hood ID or number:	06
Balance ID:	SEA211
Lot # of Nitric Acid:	G44027
ID number of the thermometer:	15-041-1A-A
Lot # of hydrochloric acid:	H42A18
Potassium Permanganate Lot Number:	082890
Sulfuric Acid Lot Number:	3108030
Potassium Persulfate Lot Number:	060384
Stannous Chloride Lot Number:	076262
NaCL Lot #:	080787
Hydroxylamine Hydrochloride Lot:	094946

Metals Worksheet

Batch Number: 580-64512
Method: 7471A
Analyst: Boritz, Ben A

Date Open: May 27 2010 12:06PM
Batch End: May 27 2010 1:00PM

Lab ID	Client ID	Method Chain	Basis	Target Amount of Sample to Use	Initial weight/volume of sample	Final weight/volume of sample	Hg_CAL_WORK_00002	SRMsolid_00004
580-19440-A-1			T	0.5048 g	0.6782 g	50 mL		
580-19440-A-1~DU			T		0.5330 g	50 mL		
580-19440-A-1~MS			T		0.6943 g	50 mL	1 mL	
580-19440-A-1~MSD			T		0.6943 g	50 mL	1 mL	
580-19442-A-1			T	0.5039 g	0.5675 g	50 mL		
580-19399-A-20	01SMRT1	7471A, 7471A	T	0.5771 g	0.6132 g	50 mL		
580-19399-A-21	21HMSS	7471A, 7471A	T	0.6545 g	0.5209 g	50 mL		
580-19399-A-22	01HMST	7471A, 7471A	T	0.6706 g	0.6051 g	50 mL		
580-19399-A-23	02HMST	7471A, 7471A	T	0.8406 g	0.7518 g	50 mL		
580-19399-A-24	03HMST	7471A, 7471A	T	0.7289 g	0.8541 g	50 mL		
580-19399-A-25	04HMST	7471A, 7471A	T	1.0495 g	0.5833 g	50 mL		
580-19399-A-26	11SMSS	7471A, 7471A	T	0.5149 g	0.9052 g	50 mL		
580-19399-A-27	12SMSS	7471A, 7471A	T	0.5677 g	0.6307 g	50 mL		
580-19399-A-28	13SMSS	7471A, 7471A	T	0.5819 g	0.8872 g	50 mL		
580-19399-A-29	14SMSS	7471A, 7471A	T	0.5895 g	0.8754 g	50 mL		
580-19399-A-30	15SMSS	7471A, 7471A	T	0.5332 g	0.9205 g	50 mL		
580-19399-A-31	16SMSS	7471A, 7471A	T	0.603 g	0.7031 g	50 mL		
580-19399-A-32	17SMSS	7471A, 7471A	T	0.5803 g	0.8068 g	50 mL		
MB~580-64512/19		7471A, 7471A			0.5 g	50 mL		
LCS~580-64512/20		7471A, 7471A			0.5 g	50 mL	1 mL	
LCSD~580-64512/21		7471A, 7471A			0.5 g	50 mL	1 mL	
LCSSRM~580-64512/22		7471A, 7471A			0.1170 g	50 mL		0.1170 g

Nominal Amount Used:	0.5 g	Oven, Bath or Block Temperature 1:	94.9
Digestion Tube/Cup Lot #:	100121	NaCL Lot #:	080787
Hot Block ID number:	38008	Hydroxylamine Hydrochloride Lot:	094946
Hood ID or number:	100121		
Balance ID:	SEA211		
Lot # of Nitric Acid:	G44027		
ID number of the thermometer:	15-041-1A-A		
Lot # of hydrochloric acid:	H42A18		
Potassium Permanganate Lot Number:	082890		
Sulfuric Acid Lot Number:	3108030		
Potassium Persulfate Lot Number:	060384		
Stannous Chloride Lot Number:	076262		

Metals Worksheet

Batch Number: 580-64514
Method: 3050B
Analyst: Boardway, Peter A

Date Open: May 27 2010 12:12PM
Batch End: May 27 2010 1:50PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	m-GPS-1_00015	m-GPS-2_00012	m-GPS-3_00013	m-GPS-4_00014
580-19393-A-18			T	1.1870 g	50 mL				
580-19393-A-18~DU			T	1.2142 g	50 mL				
580-19393-A-18~MS			T	1.3021 g	50 mL	1 mL	1 mL	1 mL	1 mL
580-19393-A-18~MSD			T	1.1618 g	50 mL	1 mL	1 mL	1 mL	1 mL
580-19393-A-19			T	1.2184 g	50 mL				
580-19393-A-20			T	1.1846 g	50 mL				
580-19393-A-21			T	1.0065 g	50 mL				
580-19399-A-1	02SMRT1	3050B, 6020	T	1.0420 g	50 mL				
580-19399-A-2	01SMSS	3050B, 6020	T	1.2596 g	50 mL				
580-19399-A-3	02SMSS	3050B, 6020	T	1.0462 g	50 mL				
580-19399-A-4	01CSBG	3050B, 6020	T	1.0722 g	50 mL				
580-19399-A-5	03SMRT1	3050B, 6020	T	1.1184 g	50 mL				
580-19399-A-6	04SMRT1	3050B, 6020	T	1.3135 g	50 mL				
580-19399-A-7	05SMRT1	3050B, 6020	T	1.3011 g	50 mL				
580-19399-A-8	06SMRT1	3050B, 6020	T	1.4866 g	50 mL				
580-19399-A-9	03HMBG	3050B, 6020	T	1.3686 g	50 mL				
580-19399-A-10	02CSBG	3050B, 6020	T	1.2005 g	50 mL				
580-19399-A-11	10SMSS	3050B, 6020	T	1.2576 g	50 mL				
580-19399-A-12	02HMBG	3050B, 6020	T	1.1960 g	50 mL				
580-19399-A-13	03SMSS	3050B, 6020	T	1.0363 g	50 mL				
MB~580-64514/21		3050B, 6020		1.0 g	50 mL				
LCS~580-64514/22		3050B, 6020		1.0 g	50 mL	1 mL	1 mL	1 mL	1 mL
LCSD~580-64514/23		3050B, 6020		1.0 g	50 mL	1 mL	1 mL	1 mL	1 mL
LCSSRM~580-64514/24		3050B, 6020		0.5119 g	50 mL				

Metals Worksheet

Batch Number: 580-64514
Method: 3050B
Analyst: Boardway, Peter A

Date Open: May 27 2010 12:12PM
Batch End: May 27 2010 1:50PM

Lab ID	Client ID	Method Chain	Basis	MS-HgSpk_00008	SRMsolid_00004
580-19393-A-18			T		
580-19393-A-18~DU			T		
580-19393-A-18~MS			T	1 mL	
580-19393-A-18~MSD			T	1 mL	
580-19393-A-19			T		
580-19393-A-20			T		
580-19393-A-21			T		
580-19399-A-1	02SMRT1	3050B, 6020	T		
580-19399-A-2	01SMSS	3050B, 6020	T		
580-19399-A-3	02SMSS	3050B, 6020	T		
580-19399-A-4	01CSBG	3050B, 6020	T		
580-19399-A-5	03SMRT1	3050B, 6020	T		
580-19399-A-6	04SMRT1	3050B, 6020	T		
580-19399-A-7	05SMRT1	3050B, 6020	T		
580-19399-A-8	06SMRT1	3050B, 6020	T		
580-19399-A-9	03HMBG	3050B, 6020	T		
580-19399-A-10	02CSBG	3050B, 6020	T		
580-19399-A-11	10SMSS	3050B, 6020	T		
580-19399-A-12	02HMBG	3050B, 6020	T		
580-19399-A-13	03SMSS	3050B, 6020	T		
MB~580-64514/21		3050B, 6020			
LCS~580-64514/22		3050B, 6020		1 mL	
LCSD~580-64514/23		3050B, 6020		1 mL	
LCSSRM~580-64514/24		3050B, 6020			0.5119 g

Digestion Tube/Cup Lot #:	100121	Pipette ID:	mp1
Balance ID:	SEA204		
Hood ID or number:	06		
Hot Block ID number:	38010		
Lot # of hydrochloric acid:	H42A18		
Lot # of Nitric Acid:	G44027		
Logbook ID for diluted Nitric:	S002		
Hydrogen peroxide lot number:	S007		
ID number of the thermometer:	15-041-1A-A		
Temperature:	94.9 CORRECTED-TEMP Degrees C		

Metals Worksheet

Batch Number: 580-64536
Method: 3050B
Analyst: Mattison, Adam

Date Open: May 27 2010 3:30PM
Batch End: May 27 2010 4:35PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	m-GPS-1_00015	m-GPS-2_00012	m-GPS-3_00013	m-GPS-4_00014
580-19399-A-14	01SMRT2	3050B, 6020	T	1.0432 g	50 mL				
580-19399-A-14~DU	01SMRT2	3050B, 6020	T	1.0577 g	50 mL				
580-19399-A-14~MS	01SMRT2	3050B, 6020	T	1.0517 g	50 mL	1 mL	1 mL	1 mL	1 mL
580-19399-A-14~MSD	01SMRT2	3050B, 6020	T	1.0627 g	50 mL	1 mL	1 mL	1 mL	1 mL
580-19399-A-15	02SMRT2	3050B, 6020	T	1.0480 g	50 mL				
580-19399-A-16	03SMRT2	3050B, 6020	T	1.0023 g	50 mL				
580-19399-A-17	04SMRT2	3050B, 6020	T	1.1540 g	50 mL				
580-19399-A-18	05SMRT2	3050B, 6020	T	1.1608 g	50 mL				
580-19399-A-19	06SMRT2	3050B, 6020	T	1.0178 g	50 mL				
580-19399-A-20	01SMRT1	3050B, 6020	T	1.0800 g	50 mL				
580-19399-A-21	21HMSS	3050B, 6020	T	1.1748 g	50 mL				
580-19399-A-22	01HMST	3050B, 6020	T	1.1354 g	50 mL				
580-19399-A-23	02HMST	3050B, 6020	T	1.0692 g	50 mL				
580-19399-A-24	03HMST	3050B, 6020	T	1.1432 g	50 mL				
580-19399-A-25	04HMST	3050B, 6020	T	1.0748 g	50 mL				
580-19399-A-26	11SMSS	3050B, 6020	T	1.0233 g	50 mL				
580-19399-A-27	12SMSS	3050B, 6020	T	1.0265 g	50 mL				
580-19399-A-28	13SMSS	3050B, 6020	T	1.1738 g	50 mL				
580-19399-A-29	14SMSS	3050B, 6020	T	1.0467 g	50 mL				
580-19399-A-30	15SMSS	3050B, 6020	T	1.0486 g	50 mL				
MB~580-64536/21		3050B, 6020		1.0 g	50 mL				
LCS~580-64536/22		3050B, 6020		1.0 g	50 mL	1 mL	1 mL	1 mL	1 mL
LCSD~580-64536/23		3050B, 6020		1.0 g	50 mL	1 mL	1 mL	1 mL	1 mL
LCSSRM~580-64536/24		3050B, 6020		0.5214 g	50 mL				

Metals Worksheet

Batch Number: 580-64536
Method: 3050B
Analyst: Mattison, Adam

Date Open: May 27 2010 3:30PM
Batch End: May 27 2010 4:35PM

Lab ID	Client ID	Method Chain	Basis	MS-HgSpk_00008	SRMsolid_00004
580-19399-A-14	01SMRT2	3050B, 6020	T		
580-19399-A-14~DU	01SMRT2	3050B, 6020	T		
580-19399-A-14~MS	01SMRT2	3050B, 6020	T	1 mL	
580-19399-A-14~MSD	01SMRT2	3050B, 6020	T	1 mL	
580-19399-A-15	02SMRT2	3050B, 6020	T		
580-19399-A-16	03SMRT2	3050B, 6020	T		
580-19399-A-17	04SMRT2	3050B, 6020	T		
580-19399-A-18	05SMRT2	3050B, 6020	T		
580-19399-A-19	06SMRT2	3050B, 6020	T		
580-19399-A-20	01SMRT1	3050B, 6020	T		
580-19399-A-21	21HMSS	3050B, 6020	T		
580-19399-A-22	01HMST	3050B, 6020	T		
580-19399-A-23	02HMST	3050B, 6020	T		
580-19399-A-24	03HMST	3050B, 6020	T		
580-19399-A-25	04HMST	3050B, 6020	T		
580-19399-A-26	11SMSS	3050B, 6020	T		
580-19399-A-27	12SMSS	3050B, 6020	T		
580-19399-A-28	13SMSS	3050B, 6020	T		
580-19399-A-29	14SMSS	3050B, 6020	T		
580-19399-A-30	15SMSS	3050B, 6020	T		
MB~580-64536/21		3050B, 6020			
LCS~580-64536/22		3050B, 6020		1 mL	
LCSD~580-64536/23		3050B, 6020		1 mL	
LCSSRM~580-64536/24		3050B, 6020			0.5214 g

Digestion Tube/Cup Lot #:	100121	Pipette ID:	mp1
Balance ID:	SEA204		
Hood ID or number:	06		
Hot Block ID number:	38009		
Lot # of hydrochloric acid:	H42A18		
Lot # of Nitric Acid:	G44027		
Logbook ID for diluted Nitric:	S002		
Hydrogen peroxide lot number:	S007		
ID number of the thermometer:	15-041-1A-A		
Temperature:	94.9 Degrees C		

Metals Worksheet

Batch Number: 580-64541
Method: 3050B
Analyst: Mattison, Adam

Date Open: May 27 2010 2:44PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	m-GPS-1_00015	m-GPS-2_00012	m-GPS-3_00013	m-GPS-4_00014
580-19399-A-31	16SMSS	3050B, 6020	T	1.0876 g	50 mL				
580-19399-A-31~DU	16SMSS	3050B, 6020	T	1.0772 g	50 mL				
580-19399-A-31~MS	16SMSS	3050B, 6020	T	1.0268 g	50 mL	1 mL	1 mL	1 mL	1 mL
580-19399-A-31~MSD	16SMSS	3050B, 6020	T	1.1273 g	50 mL	1 mL	1 mL	1 mL	1 mL
580-19399-A-32	17SMSS	3050B, 6020	T	1.1010 g	50 mL				
580-19401-A-1			T	1.1303 g	50 mL				
580-19401-A-2			T	1.1026 g	50 mL				
580-19401-A-3			T	1.0686 g	50 mL				
580-19401-A-4			T	1.1033 g	50 mL				
580-19401-A-5			T	1.0625 g	50 mL				
580-19401-A-6			T	1.0090 g	50 mL				
580-19401-A-7			T	1.1943 g	50 mL				
580-19401-A-8			T	1.0058 g	50 mL				
580-19401-A-9			T	1.1246 g	50 mL				
580-19401-A-10			T	1.1399 g	50 mL				
580-19401-A-11			T	1.1597 g	50 mL				
580-19401-A-12			T	1.1007 g	50 mL				
580-19401-A-13			T	1.0513 g	50 mL				
580-19401-A-14			T	1.0548 g	50 mL				
580-19401-A-15			T	1.1341 g	50 mL				
MB~580-64541/21		3050B, 6020		1.0 g	50 mL				
LCS~580-64541/22		3050B, 6020		1.0 g	50 mL	1 mL	1 mL	1 mL	1 mL
LCSD~580-64541/23		3050B, 6020		1.0 g	50 mL	1 mL	1 mL	1 mL	1 mL
LCSSRM~580-64541/24		3050B, 6020		0.5352 g	50 mL				

Metals Worksheet

Batch Number: 580-64541
Method: 3050B
Analyst: Mattison, Adam

Date Open: May 27 2010 2:44PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	MS-HgSpk_00008	SRMsolid_00004
580-19399-A-31	16SMSS	3050B, 6020	T		
580-19399-A-31~DU	16SMSS	3050B, 6020	T		
580-19399-A-31~MS	16SMSS	3050B, 6020	T	1 mL	
580-19399-A-31~MSD	16SMSS	3050B, 6020	T	1 mL	
580-19399-A-32	17SMSS	3050B, 6020	T		
580-19401-A-1			T		
580-19401-A-2			T		
580-19401-A-3			T		
580-19401-A-4			T		
580-19401-A-5			T		
580-19401-A-6			T		
580-19401-A-7			T		
580-19401-A-8			T		
580-19401-A-9			T		
580-19401-A-10			T		
580-19401-A-11			T		
580-19401-A-12			T		
580-19401-A-13			T		
580-19401-A-14			T		
580-19401-A-15			T		
MB~580-64541/21		3050B, 6020			
LCS~580-64541/22		3050B, 6020		1 mL	
LCSD~580-64541/23		3050B, 6020		1 mL	
LCSSRM~580-64541/24		3050B, 6020			0.5352 g

Digestion Tube/Cup Lot #:	100121	Pipette ID:	mp1
Balance ID:	SEA204		
Hood ID or number:	06		
Hot Block ID number:	38008		
Lot # of hydrochloric acid:	H42A18		
Lot # of Nitric Acid:	G44027		
Logbook ID for diluted Nitric:	S002		
Hydrogen peroxide lot number:	S007		
ID number of the thermometer:	15-041-1A-A		
Temperature:	94.9 Degrees C		

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job Number: 580-19399-1

SDG No.:

Project: Contact & Sonoma Mine Sites

Client Sample ID	Lab Sample ID
02SMRT1	580-19399-1
01SMSS	580-19399-2
02SMSS	580-19399-3
01CSBG	580-19399-4
03SMRT1	580-19399-5
04SMRT1	580-19399-6
05SMRT1	580-19399-7
06SMRT1	580-19399-8
03HMBG	580-19399-9
02CSBG	580-19399-10
10SMSS	580-19399-11
02HMBG	580-19399-12
03SMSS	580-19399-13
01SMRT2	580-19399-14
02SMRT2	580-19399-15
03SMRT2	580-19399-16
04SMRT2	580-19399-17
05SMRT2	580-19399-18
06SMRT2	580-19399-19
01SMRT1	580-19399-20
21HMSS	580-19399-21
01HMST	580-19399-22
02HMST	580-19399-23
03HMST	580-19399-24
04HMST	580-19399-25
11SMSS	580-19399-26
12SMSS	580-19399-27
13SMSS	580-19399-28
14SMSS	580-19399-29
15SMSS	580-19399-30
16SMSS	580-19399-31
17SMSS	580-19399-32

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job Number: 580-19399-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Analysis Method: Moisture RL Date: 01/01/2005 13:13

Prep Method:

Leach Method:

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 05/21/2010 10:57 End Date: 05/21/2010 10:57

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
580-19399-1	1	T	10:57	X	X																		
580-19399-1 DU	1	T	10:57	X	X																		
580-19399-2	1	T	10:57	X	X																		
580-19399-3	1	T	10:57	X	X																		
580-19399-4	1	T	10:57	X	X																		
580-19399-5	1	T	10:57	X	X																		
580-19399-6	1	T	10:57	X	X																		
580-19399-7	1	T	10:57	X	X																		
580-19399-8	1	T	10:57	X	X																		
580-19399-9	1	T	10:57	X	X																		
580-19399-10	1	T	10:57	X	X																		
580-19399-11	1	T	10:57	X	X																		
580-19399-12	1	T	10:57	X	X																		
580-19399-13	1	T	10:57	X	X																		
580-19399-14	1	T	10:57	X	X																		
580-19399-15	1	T	10:57	X	X																		
580-19399-16	1	T	10:57	X	X																		

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job No.: 580-19399-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 05/21/2010 10:58 End Date: 05/21/2010 10:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
580-19399-17	1	T	10:58	X	X																		
580-19399-17 DU	1	T	10:58	X	X																		
580-19399-18	1	T	10:58	X	X																		
580-19399-19	1	T	10:58	X	X																		
580-19399-20	1	T	10:58	X	X																		
580-19399-21	1	T	10:58	X	X																		
580-19399-22	1	T	10:58	X	X																		
580-19399-23	1	T	10:58	X	X																		
580-19399-24	1	T	10:58	X	X																		
580-19399-25	1	T	10:58	X	X																		
580-19399-26	1	T	10:58	X	X																		
580-19399-27	1	T	10:58	X	X																		
580-19399-28	1	T	10:58	X	X																		
580-19399-29	1	T	10:58	X	X																		
580-19399-30	1	T	10:58	X	X																		
580-19399-31	1	T	10:58	X	X																		
580-19399-32	1	T	10:58	X	X																		

Prep Types
T = Total/NA

General Chemistry Worksheet

Batch Number: 580-64078
Method: Moisture
Analyst: Boritz, Ben A

Date Open: May 21 2010 10:57AM
Batch End: May 21 2010 3:00PM

Lab ID	Client ID	Method Chain	Basis	Empty Dish Weight	Mass of wet Sample	Mass of Dry Sample
580-19399-A-1	02SMRT1	Moisture	T	0.7578 g	9.1420 g	7.7757 g
580-19399-A-1~DU	02SMRT1	Moisture	T	0.8018 g	9.2410 g	8.1524 g
580-19399-A-2	01SMSS	Moisture	T	0.7853 g	4.7702 g	3.6021 g
580-19399-A-3	02SMSS	Moisture	T	0.7960 g	4.9501 g	4.2871 g
580-19399-A-4	01CSBG	Moisture	T	0.7785 g	7.0796 g	6.9619 g
580-19399-A-5	03SMRT1	Moisture	T	0.7856 g	7.7128 g	7.0801 g
580-19399-A-6	04SMRT1	Moisture	T	0.7751 g	6.8012 g	6.3028 g
580-19399-A-7	05SMRT1	Moisture	T	0.7637 g	9.0937 g	8.3083 g
580-19399-A-8	06SMRT1	Moisture	T	0.7685 g	15.3488 g	12.1651 g
580-19399-A-9	03HMBG	Moisture	T	0.7507 g	7.5887 g	6.5813 g
580-19399-A-10	02CSBG	Moisture	T	0.7707 g	10.0135 g	9.0296 g
580-19399-A-11	10SMSS	Moisture	T	0.7659 g	9.1827 g	8.5213 g
580-19399-A-12	02HMBG	Moisture	T	0.7720 g	6.7532 g	6.3855 g
580-19399-A-13	03SMSS	Moisture	T	0.7796 g	6.7332 g	6.2996 g
580-19399-A-14	01SMRT2	Moisture	T	0.7670 g	6.3826 g	6.1397 g
580-19399-A-15	02SMRT2	Moisture	T	0.7819 g	6.9117 g	6.6222 g
580-19399-A-16	03SMRT2	Moisture	T	0.7751 g	6.7802 g	6.1399 g

Balance ID:	sea207 No Unit
Date samples were place in the oven:	5/21/10
Time samples were place in the oven:	1130
Oven Temp when samples are put in oven:	102.5 Degrees C
Date samples were removed from oven:	5/21/10
Time Samples were removed from oven:	1430
Oven Temp when samples removed from oven:	99.5 Degrees C
Oven ID:	sea302
ID number of the thermometer:	3A4824

General Chemistry Worksheet

Batch Number: 580-64079
Method: Moisture
Analyst: Boritz, Ben A

Date Open: May 21 2010 10:58AM
Batch End: May 21 2010 3:00PM

Lab ID	Client ID	Method Chain	Basis	Empty Dish Weight	Mass of wet Sample	Mass of Dry Sample
580-19399-A-17	04SMRT2	Moisture	T	0.7750 g	8.0099 g	7.5982 g
580-19399-A-17~DU	04SMRT2	Moisture	T	0.7809 g	6.3884 g	6.0749 g
580-19399-A-18	05SMRT2	Moisture	T	0.7539 g	10.8372 g	10.0225 g
580-19399-A-19	06SMRT2	Moisture	T	0.7857 g	6.3545 g	5.2414 g
580-19399-A-20	01SMRT1	Moisture	T	0.7748 g	9.1876 g	8.0631 g
580-19399-A-21	21HMSS	Moisture	T	0.7570 g	7.6105 g	5.9930 g
580-19399-A-22	01HMST	Moisture	T	0.7748 g	7.1769 g	5.5482 g
580-19399-A-23	02HMST	Moisture	T	0.7724 g	5.6209 g	3.6562 g
580-19399-A-24	03HMST	Moisture	T	0.7572 g	8.7747 g	6.2570 g
580-19399-A-25	04HMST	Moisture	T	0.7751 g	6.6081 g	3.5540 g
580-19399-A-26	11SMSS	Moisture	T	0.7975 g	7.1718 g	6.9879 g
580-19399-A-27	12SMSS	Moisture	T	0.7644 g	8.1972 g	7.3107 g
580-19399-A-28	13SMSS	Moisture	T	0.7671 g	7.1657 g	6.2651 g
580-19399-A-29	14SMSS	Moisture	T	0.7731 g	10.1820 g	8.7530 g
580-19399-A-30	15SMSS	Moisture	T	0.7837 g	6.1950 g	5.8583 g
580-19399-A-31	16SMSS	Moisture	T	0.7904 g	7.2358 g	6.1352 g
580-19399-A-32	17SMSS	Moisture	T	0.7793 g	9.2506 g	8.0783 g

Balance ID:	sea207 No Unit
Date samples were place in the oven:	5/21/10
Time samples were place in the oven:	1130
Oven Temp when samples are put in oven:	102.5 Degrees C
Date samples were removed from oven:	5/21/10
Time Samples were removed from oven:	1430
Oven Temp when samples removed from oven:	99.5 Degrees C
Oven ID:	sea302
ID number of the thermometer:	3A4824

Subcontract Data

ANALYTICAL REPORT

PROJECT NO. 580-19399-1

580-19399 HELEN & SONOMA MINE

Lot #: A0E210574

Terri Torres

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424

TESTAMERICA LABORATORIES, INC.

Approved for release.
Kris Brooks
Project Manager
6/3/2010 5:50 PM

Kris M. Brooks
Project Manager
kris.brooks@testamericainc.com

June 03, 2010

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CASE NARRATIVE

CASE NARRATIVE

A0E210574

The following report contains the analytical results for four solid samples submitted to TestAmerica North Canton by TestAmerica Seattle from the 580-19399 Helen & Sonoma Mine Site, project number 580-19399-1. The samples were received May 21, 2010, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Terri Torres on June 01, 2010. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Kris M. Brooks, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 2.7°C.

METALS

The following samples could not be analyzed by method 1631E, due to the concentrations of Mercury in the samples, 01CSBG, 03HMBG, 02CSBG and 02HMBG. Method 7171A was performed.

This reports is being submitted without the MS/MSD that is associated with batch 0147015.The associated MS/MSD is not client specific and therefore has no significant effect on the reported results.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit

N:\QAQC\Customer Service\Narrative - Combined RCRA _CWA 032609.doc

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A0E210574

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
01CSBG 05/08/10 17:00 001				
Mercury	6.0	1.0	mg/kg	SW846 7471A
Percent Solids	98.3	10.0	%	MCAWW 160.3 MOD
03HMBG 05/16/10 12:45 002				
Mercury	0.77	0.12	mg/kg	SW846 7471A
Percent Solids	84.3	10.0	%	MCAWW 160.3 MOD
02CSBG 05/14/10 15:15 003				
Mercury	30.5	5.6	mg/kg	SW846 7471A
Percent Solids	88.7	10.0	%	MCAWW 160.3 MOD
02HMBG 05/07/10 08:55 004				
Mercury	1.8	0.11	mg/kg	SW846 7471A
Percent Solids	93.3	10.0	%	MCAWW 160.3 MOD

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A0E210574

PARAMETER	ANALYTICAL METHOD
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Total Residue as Percent Solids	MCAWW 160.3 MOD

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A0E210574

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L1XEH	001	01CSBG	05/08/10	17:00
L1XEN	002	03HMBG	05/16/10	12:45
L1XER	003	02CSBG	05/14/10	15:15
L1XEW	004	02HMBG	05/07/10	08:55

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SHIPPING
AND
RECEIVING DOCUMENTS

'estAmerica Seattle
755 8th Street East
acoma, WA 98424
'hone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)

Client Contact: Shipping/Receiving
Company: TestAmerica Laboratories, Inc.
Address: 4101 Shuffel Street NW,
City: North Canton
State, Zip: OH, 44720
Phone: 330-497-9396(Tel) 330-497-0772(Fax)
Email:
Project Name: Helen Mercury Mine and Sonoma Mercury Mi
Site:

Sampler:
Phone:
Lab PM: Torres, Terri L
E-Mail: terri.torres@testamericainc.com
Carrier Tracking No(s):
COC No: 580-3457.1
Page: Page 1 of 1
Job #: 580-19399-1

Due Date Requested: 6/14/2010
TAT Requested (days):
PO #: 580-19399
WO #:
Project #: 58003837
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification - Client ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	SUBCONTRACT/ EPA 1631E Low Level Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
01CSBG	5/8/10	17:00 Pacific		Solid			X	1	
03HMBG	5/16/10	12:45 Pacific		Solid			X	1	
02CSBG	5/14/10	15:15 Pacific		Solid			X	1	
02HMBG	5/7/10	08:55 Pacific		Solid			X	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	5/19/10 1500	TA Seattle	[signature]	21 May 2010 0915	TESTAMERIC

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

North Canton

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 400E210574
North Canton Facility

Client SEATTLE Project HELEN ESONOMA By: [signature]
Cooler Received on 21 MAY 2010 Opened on 21 MAY 2010 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ____
TestAmerica Cooler # ____ Multiple Coolers ☐ Foam Box ☐ Client Cooler ☒ Other ____

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 1 Quantity Unsalvageable ____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? ____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other PLASTIC BAG
6. Cooler temperature upon receipt 21.7 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐ ____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM ____ Date ____ by ____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning ____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

____

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.
Sample(s) ____ were received in a broken container.
Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot# 121709-HNO_3; Sulfuric Acid Lot# 121709-H_2SO_4; Sodium Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-$(CH_3COO)_2ZN/NaOH$.* What time was preservative added to sample(s)? ____

Client ID	pH	Date	Initials

SOP: NC-SC-0005, Sample Receiving

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant

Discrepancies Cont'd:

METALS DATA

FORMS DATA

TestAmerica Seattle

Client Sample ID: 01CSBG

TOTAL Metals

Lot-Sample #...: A0E210574-001 **Matrix.....:** SO
Date Sampled...: 05/08/10 17:00 **Date Received..:** 05/21/10
% Moisture.....: 1.7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0147015						
Mercury	**6.0**	**1.0**	**mg/kg**	**SW846 7471A**	**05/27-05/28/10**	**L1XEH1AD**
		Dilution Factor: 10		Analysis Time..: 12:43	Analyst ID.....: 000079	
		Instrument ID..: H1		MDL.....: 0.15		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Seattle

Client Sample ID: 03HMBG

TOTAL Metals

Lot-Sample #...: A0E210574-002 **Matrix.....:** SO
Date Sampled...: 05/16/10 12:45 **Date Received..:** 05/21/10
% Moisture.....: 16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0147015						
Mercury	**0.77**	**0.12**	**mg/kg**	**SW846 7471A**	**05/27-05/28/10**	**L1XEN1AD**
		Dilution Factor: 1		Analysis Time..: 12:07	Analyst ID.....: 000079	
		Instrument ID..: H1		MDL.....: 0.018		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Seattle

Client Sample ID: 02CSBG

TOTAL Metals

Lot-Sample #...: A0E210574-003 **Matrix.....:** SO
Date Sampled...: 05/14/10 15:15 **Date Received..:** 05/21/10
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0147015						
Mercury	**30.5**	**5.6**	**mg/kg**	**SW846 7471A**	**05/27-05/28/10**	**L1XER1AD**
		Dilution Factor: 50		Analysis Time..: 12:47	Analyst ID.....: 000079	
		Instrument ID..: H1		MDL.....: 0.85		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Seattle

Client Sample ID: 02HMBG

TOTAL Metals

Lot-Sample #...: A0E210574-004 **Matrix.....:** SO
Date Sampled...: 05/07/10 08:55 **Date Received..:** 05/21/10
% Moisture.....: 6.7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0147015						
Mercury	**1.8**	**0.11**	**mg/kg**	**SW846 7471A**	**05/27-05/28/10**	**L1XEW1AD**
		Dilution Factor: 1		Analysis Time..: 12:04	Analyst ID.....: 000079	
		Instrument ID..: H1		MDL.....: 0.016		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A0E210574 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A0E270000-015 **Prep Batch #...:** 0147015						
Mercury	ND	0.10	mg/kg	SW846 7471A	05/27-05/28/10	L14X51AA

Dilution Factor: 1

Analysis Time..: 11:48 Analyst ID.....: 000079 Instrument ID..: H1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0E210574 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A0E270000-015 **Prep Batch #...:** 0147015					
Mercury	107	(73 - 121)	SW846 7471A	05/27-05/28/10	L14X51A0

Dilution Factor: 1 Analysis Time..: 11:49 Analyst ID.....: 000079
Instrument ID..: H1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0E210574 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A0E270000-015 **Prep Batch #...:** 0147015							
Mercury	0.83	0.89	mg/kg	107	SW846 7471A	05/27-05/28/10	L14X51A0

Dilution Factor: 1 Analysis Time..: 11:49 Analyst ID.....: 000079
Instrument ID..: H1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: CVAA **Units:** ug/L

Chart Number: hg10528a.prn **Acceptable Range:** 90% - 110%

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	True Conc	Ck5ICV 05/28/10 11:28 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	2.5	2.52	**100.7**								

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA **Units:** ug/L

Chart Number: hg10528a.prn **Acceptable Range:** 80% - 120%

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	True Conc	Ck2CCV 05/28/10 11:31 AM		Ck2CCV 05/28/10 11:45 AM		Ck2CCV 05/28/10 12:00 PM		Ck2CCV 05/28/10 12:14 PM		Ck2CCV 05/28/10 12:37 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.27	**105.4**	5.32	**106.3**	4.90	**98.0**	4.51	**90.3**	5.36	**107.3**

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA **Units:** ug/L

Chart Number: hg10528a.prn **Acceptable Range:** 80% - 120%

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	True Conc	Ck2CCV 05/28/10 12:48 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.29	**105.7**								

5.21.0 *Form 2A Equivalent*

Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: CVAA **Units:** ug/L

Chart Number: hg10528a.prn **Acceptable Range:** 50% - 150%

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	True Conc	Ck3CRA\MRL 05/28/10 11:30 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	0.2	0.23	**114.7**								

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: hg10528a.prn

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	Ck4ICB 05/28/10 11:29 AM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.6	0.1	U								

5.21.0

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: hg10528a.prn

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	Ck1CCB 05/28/10 11:32 AM		Ck1CCB 05/28/10 11:47 AM		Ck1CCB 05/28/10 12:01 PM		Ck1CCB 05/28/10 12:15 PM		Ck1CCB 05/28/10 12:38 PM	
			Found	**Q**	**Found**	**Q**	**Found**	**Q**	**Found**	**Q**	**Found**	**Q**
Mercury	253.7	0.6	**0.1**	**B**	0.1	U	0.1	U	0.1	U	0.1	U

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: hg10528a.prn

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	Ck1CCB 05/28/10 12:49 PM									
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.6	**0.1**	**B**								

5.21.0

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Instrument Detection Limits

Instrument: CVAA **Units:** ppb

Element	Wavelength	Reporting Limit	IDL	Date of IDL
Mercury	253.700	0.6	0.10	01/08/10

Batch Number: 014/013

Metals Prep Log/ Batch Summary

Lisa McGall
(e-Signature)

Prep Date: 05/27/10
Due Date: 06/01/10

Lot	Work Order			ICP Weight	ICPMS Weight	Hg Weight
A0E270000 Solid	L14X5	B	Due Date: SDG:	1.00 g		0.60 g
A0E270000 Solid	L14X5	C	Due Date: SDG:	1.00 g		0.60 g
A0E210574 Solid	L1XEH Total		Due Date: 06/01/10 SDG:			0.60 g
A0E210574 Solid	L1XEN Total		Due Date: 06/01/10 SDG:			0.60 g
A0E210574 Solid	L1XER Total		Due Date: 06/01/10 SDG:			0.60 g
A0E210574 Solid	L1XEW Total		Due Date: 06/01/10 SDG:			0.60 g
A0E210615 Solid	L1XLM Total		Due Date: 06/01/10 SDG:			0.60 g
A0E210615 Solid	L1XLN Total		Due Date: 06/01/10 SDG:			0.60 g
A0E210615 Solid	L1XLP Total		Due Date: 06/01/10 SDG:			0.60 g
A0E210615 Solid	L1XLQ Total		Due Date: 06/01/10 SDG:			0.60 g
A0E210615 Solid	L1XL6 Total		Due Date: 06/01/10 SDG:			0.60 g
A0E260531 Solid	L135P Total		Due Date: 06/02/10 SDG:	1.00 g		0.60 g
A0E260550 Solid	L14CN Total		Due Date: 06/08/10 SDG:	1.00 g		0.60 g
A0E260550 Solid	L14CN Total	S	Due Date: 06/08/10 SDG:	1.00 g		0.60 g
A0E260550 Solid	L14CN Total	D	Due Date: 06/08/10 SDG:	1.00 g		0.60 g
A0E260550 Solid	L14C3 Total		Due Date: 06/08/10 SDG:	1.00 g		0.60 g
A0E260550 Solid	L14DA Total		Due Date: 06/08/10 SDG:	1.00 g		0.60 g
A0E260550 Solid	L14DD Total		Due Date: 06/08/10 SDG:	1.00 g		0.60 g
A0E260550 Solid	L14DH Total		Due Date: 06/08/10 SDG:	1.00 g		0.60 g
A0E260550 Solid	L14DK Total		Due Date: 06/08/10 SDG:	1.00 g		0.60 g

Batch Number: 0147013

Metals Prep Log/ Batch Summary

Lisa McGall
(e-Signature)

Prep Date: 05/27/10
Due Date: 06/01/10

Lot	Work Order	ICP Weight	ICPMS Weight	Hg Weight
	LEVEL 2			
	BLANK AND CHECK STANDARD ON BATCH	X		
	MS/MSD AND PDS ON BATCH	X		
	CORRECT SPIKES ADDED	X		
	SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG	X		

Comments:

B-BLANK; C-CHECK SAMPLE; L-CHECK SAMPLE DUPLICATE; P-SERIAL DILUTION; S-MATRIX SPIKE SAMPLE; D-MATRIX SPIKE DUPLICATE SAMPLE

Unless otherwise noted, final volumes are as follows: Soils - 100 mL. Waters - ICP and ICPMS - 50 mL, Hg - 100 mL.

Low Level Hg: final volumes are 40 mL.

ICP ELEMENTS WITHIN THE BATCH:

AG AL AS BA BE CD CO CR CU FE MN NI PB SB SE SN TL VX ZN

Matrix Spike Information:

L14CN	ICP-1	Hg	Ag

Check Sample Information:

L14X5	ICP-1	Hg	Ag

Prep Method(s): SW846 3050B, SW846 7471A

```
--------------------------------------------------------------------------------
:       Instrument Upload                                   Run Log - Page  1 :
:       Started Fri May 28 11:25:53 2010 by MUSSELMN                          :
:       Data File: UPL$CAN_DATA_ROOT:<LHG>HG10528A.PRN;1                      :
--------------------------------------------------------------------------------
```

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	STD1REP1	1	28-MAY-2010	11:20:23			H1
2	STD2REP1	1	28-MAY-2010	11:21:53			H1
3	STD3REP1	1	28-MAY-2010	11:22:58			H1
4	STD4REP1	1	28-MAY-2010	11:24:07			H1
5	STD5REP1	1	28-MAY-2010	11:25:12			H1
6	STD6REP1	1	28-MAY-2010	11:26:19			H1
7	CK5ICV	1	28-MAY-2010	11:28:03			H1
8	CK4ICB	1	28-MAY-2010	11:29:11			H1
9	CK3CRA\MRL	1	28-MAY-2010	11:30:17			H1
10	CK2CCV	1	28-MAY-2010	11:31:33			H1
11	CK1CCB	1	28-MAY-2010	11:32:50			H1
12	L14X3B	1	28-MAY-2010	11:33:55	0147014	A0E270000	H1
13	L14X3C	1	28-MAY-2010	11:35:02	0147014	A0E270000	H1
14	L136C	1	28-MAY-2010	11:36:47	0147014	A0E260534	H1
15	L136CS	1	28-MAY-2010	11:37:52	0147014	A0E260534	H1
16	L136CD	1	28-MAY-2010	11:38:57	0147014	A0E260534	H1
17	L136D	1	28-MAY-2010	11:40:17	0147014	A0E260534	H1
18	L136G	1	28-MAY-2010	11:41:27	0147014	A0E260534	H1
19	L1368	1	28-MAY-2010	11:42:32	0147014	A0E260534	H1
20	L136X	1	28-MAY-2010	11:43:37	0147014	A0E260534	H1
21	L1367	1	28-MAY-2010	11:44:46	0147014	A0E260534	H1
22	CK2CCV	1	28-MAY-2010	11:45:54			H1
23	CK1CCB	1	28-MAY-2010	11:47:05			H1
24	L14X5B	1	28-MAY-2010	11:48:13	0147015	A0E270000	H1
25	L14X5C	1	28-MAY-2010	11:49:22	0147015	A0E270000	H1
26	L14CN	1	28-MAY-2010	11:50:28	0147015	A0E260550	H1
27	L14CNS	1	28-MAY-2010	11:51:47	0147015	A0E260550	H1
28	L14CND	1	28-MAY-2010	11:52:54	0147015	A0E260550	H1
29	L14DH	1	28-MAY-2010	11:54:12	0147015	A0E260550	H1
30	L1XLQ	1	28-MAY-2010	11:55:17	0147015	A0E210615	H1
31	L14DD	1	28-MAY-2010	11:56:22	0147015	A0E260550	H1
32	L1XLP	1	28-MAY-2010	11:57:50	0147015	A0E210615	H1
33	L1XER	1	28-MAY-2010	11:58:55	0147015	A0E210574	H1
34	CK2CCV	1	28-MAY-2010	12:00:03			H1
35	CK1CCB	1	28-MAY-2010	12:01:22			H1
36	L14DA	1	28-MAY-2010	12:02:28	0147015	A0E260550	H1
37	L1XLM	1	28-MAY-2010	12:03:34	0147015	A0E210615	H1
38	L1XEW	1	28-MAY-2010	12:04:41	0147015	A0E210574	H1
39	L1XLN	1	28-MAY-2010	12:05:51	0147015	A0E210615	H1
40	L1XEN	1	28-MAY-2010	12:07:00	0147015	A0E210574	H1
41	L135P	1	28-MAY-2010	12:08:17	0147015	A0E260531	H1
42	L14DK	1	28-MAY-2010	12:09:32	0147015	A0E260550	H1
43	L14C3	1	28-MAY-2010	12:10:39	0147015	A0E260550	H1
44	L1XEH	1	28-MAY-2010	12:11:45	0147015	A0E210574	H1

---------- (continued) ----------

```
--------------------------------------------------------------------------------
:       Instrument Upload                                   Run Log - Page  2 :
:       Started Fri May 28 11:25:53 2010 by MUSSELMN                           :
:       Data File: UPL$CAN_DATA_ROOT:<LHG>HG10528A.PRN;1                       :
--------------------------------------------------------------------------------
```

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	L1XL6	1	28-MAY-2010	12:12:51	0147015	A0E210615	H1
46	CK2CCV	1	28-MAY-2010	12:14:11			H1
47	CK1CCB	1	28-MAY-2010	12:15:15			H1
48	CK2CCV	1	28-MAY-2010	12:37:51			H1
49	CK1CCB	1	28-MAY-2010	12:38:59			H1
50	L136C	1	28-MAY-2010	12:40:04	0147014	A0E260534	H1
51	L136CS	1	28-MAY-2010	12:41:09	0147014	A0E260534	H1
52	L136CD	1	28-MAY-2010	12:42:34	0147014	A0E260534	H1
53	L1XEH	10	28-MAY-2010	12:43:54	0147015	A0E210574	H1
54	L1XL6	50	28-MAY-2010	12:45:03	0147015	A0E210615	H1
55	L1XLN	50	28-MAY-2010	12:46:08	0147015	A0E210615	H1
56	L1XER	50	28-MAY-2010	12:47:14	0147015	A0E210574	H1
57	CK2CCV	1	28-MAY-2010	12:48:24			H1
58	CK1CCB	1	28-MAY-2010	12:49:44			H1
59	CK2CCV	1	28-MAY-2010	12:54:28			H1
60	CK1CCB	1	28-MAY-2010	12:55:38			H1
61	L14CN	1	28-MAY-2010	12:56:44	0147015	A0E260550	H1
62	L14CNS	1	28-MAY-2010	12:57:50	0147015	A0E260550	H1
63	L14CND	1	28-MAY-2010	12:59:06	0147015	A0E260550	H1
64	L1XL6	100	28-MAY-2010	13:00:12	0147015	A0E210615	H1
65	CK2CCV	1	28-MAY-2010	13:01:18			H1
66	CK1CCB	1	28-MAY-2010	13:02:24			H1

---------- End of Report ----------

INSTRUMENT PRINTOUTS

TestAmerica North Canton Hg Data Review Checklist

Run/Project Information

Run Date: 5-28-10 Analyst: NJM Instrument: H1

Prep Batches Run: See Run Log

Circle Methods used: 7470A / 245.1 : CORP-MT-0005 Rev 1 7471: CORP-MT-0007 Rev 1

Review Items	Yes	No	N/A	2nd Level
A. Calibration/Instrument Run QC				
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits?	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRA run?	✓			✓
B. Sample Results				
1. Were samples with concentrations > high calibration standard diluted and reanalyzed?	✓			✓
2. All reported results bracketed by in control QC?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/ Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
D. Other				
1. Are all nonconformances documented appropriately?	✓			✓
2. Current IDL/MDL data on file?	✓			✓
3. Calculations and Transcription checked for error?	✓			✓
4. All client/project specific requirements met?	✓			✓
5. Date of analysis verified as correct?	✓			✓

Level I Analyst: Natalie Muselman Date/Time: 5-28-10

Level I Analyst: Date/Time:

Comments:

2nd Level Reviewer: [illegible] Date/Time: 5.28.10

2nd Level Reviewer: Date/Time:

Comments:

Curve Prepared Date: 5-28-10 Time: 09:35 Blank H2O - OMR194

ICV CPI09K153 $SnCL_2$ OMR312

CAL/CCV HPS0928106 NACL NH_2OH HCL OMR343

Revised 01/03/2008

```
*** Standard: 1 Rep: 1              Seq:  0       11:20:23 28 May 2010 HG
Hg    .0000   ppb      1453
*** Standard: 2 Rep: 1              Seq:  1       11:21:53 28 May 2010 HG
Hg    .2000   ppb      8448
*** Standard: 3 Rep: 1              Seq:  2       11:22:58 28 May 2010 HG
Hg    .5000   ppb      21028
*** Standard: 4 Rep: 1              Seq:  3       11:24:07 28 May 2010 HG
Hg    1.000   ppb      39555
*** Standard: 5 Rep: 1              Seq:  4       11:25:12 28 May 2010 HG
Hg    5.000   ppb      191014
*** Standard: 6 Rep: 1              Seq:  5       11:26:19 28 May 2010 HG
Hg    10.00   ppb      418334
```

RunProt: HGPPB | Err: Analyzer needs maintenance

RunFold: HG10528A Seq: 6 Batch:

Prnt: R/T On Pump: On

Rev: 4.2 Xmit: Off Gas: 1.00 LPM

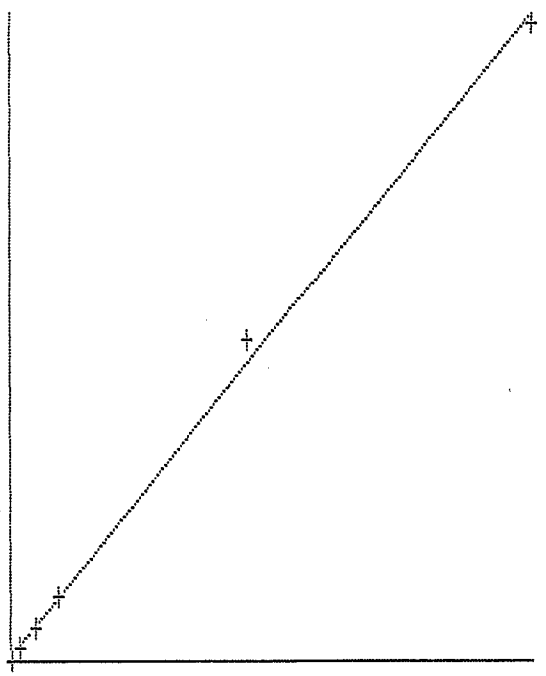
State: Idle Macro HG 59: F3 Print User: A/S: On

CALIBRATION: Line proto: HGPPB

	Hg Conc.	Calc.	Dev.	Accepted -> linear	
S1	.0000	.0817	.0817	Quadratic	
S2	.2000	.2506	.0506	Wtd linear	
S3	.5000	.5545	.0545		C
S4	1.000	1.002	.0020	Accept	o
S5	5.000	4.660	-.3397		n
S6	10.00	10.15	.1509		c

A .00000000 r .999857

B 2.41536e-5 C 4.65979e-2



	Mean		
S1	1453	0 SD	1453
S2	8448	0 %RSD	8448
S3	21028	0 %RSD	21028
S4	39555	0 %RSD	39555
S5	191014	0 %RSD	191014
S6	418334	0 %RSD	418334

New cal coefficients stored

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 5  Ck5ICV       Seq:  6       11:28:03 28 May 2010 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          100.7    2.517   2.500  ppb        .0000 %

*** Check Standard: 4  Ck4ICB       Seq:  7       11:29:11 28 May 2010 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -393900  -.0394   .0000  ppb        .0000 %

*** Check Standard: 3  Ck3CRA\MRL   Seq:  8       11:30:17 28 May 2010 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          114.7    .2294   .2000  ppb        .0000 %

*** Check Standard: 2  Ck2CCV       Seq:  9       11:31:33 28 May 2010 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          105.4    5.269   5.000  ppb        .0000 %

*** Check Standard: 1  Ck1CCB       Seq:  10      11:32:50 28 May 2010 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .1146    .2000    ppb        .0000 %

*** Sample ID: L14X3B               Seq:  11      11:33:55 28 May 2010 HG
                          0147014
Hg    .0591    ppb       .0000 %   .0591

*** Sample ID: L14X3C               Seq:  12      11:35:02 28 May 2010 HG
                          SOLID
Hg    5.004    ppb       .0000 %   5.004

*** Sample ID: L136C                Seq:  13      11:36:47 28 May 2010 HG
                          SOLID
Hg    .2688    ppb       .0000 %   .2688

*** Sample ID: L136CS               Seq:  14      11:37:52 28 May 2010 HG
                          SOLID
Hg    1.253    ppb       .0000 %   1.253

*** Sample ID: L136CD               Seq:  15      11:38:57 28 May 2010 HG
                          SOLID
Hg    1.177    ppb       .0000 %   1.177

*** Sample ID: L136D                Seq:  16      11:40:17 28 May 2010 HG
                          SOLID
Hg    .1825    ppb       .0000 %   .1825

*** Sample ID: L136G                Seq:  17      11:41:27 28 May 2010 HG
                          SOLID
```

11:42:32 28 May 2010 Protocol: HGPPB

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: L1368                    Seq:  18     11:42:32 28 May 2010 HG
                                 SOLID
Hg     .3244   ppb        .0000 %   .3244

*** Sample ID: L136X                    Seq:  19     11:43:37 28 May 2010 HG
                                 SOLID
Hg     .1703   ppb        .0000 %   .1703

*** Sample ID: L1367                    Seq:  20     11:44:46 28 May 2010 HG
                                 SOLID
Hg     .1976   ppb        .0000 %   .1976

*** Check Standard: 2  Ck2CCV           Seq:  21     11:45:54 28 May 2010 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          106.3    5.315   5.000  ppb        .0000 %

*** Check Standard: 1  Ck1CCB           Seq:  22     11:47:05 28 May 2010 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .0876    .2000    ppb        .0000 %

*** Sample ID: L14X5B                   Seq:  23     11:48:13 28 May 2010 HG
                                 0147015
Hg     .0548   ppb        .0000 %   .0548

*** Sample ID: L14X5C                   Seq:  24     11:49:22 28 May 2010 HG
                                 SOLID
Hg     5.339   ppb        .0000 %   5.339

*** Sample ID: L14CN                    Seq:  25     11:50:28 28 May 2010 HG
RR                               SOLID
Hg     3.335   ppb        .0000 %   3.335

*** Sample ID: L14CNS                   Seq:  26     11:51:47 28 May 2010 HG
                                 SOLID
RR Hg  3.209   ppb        .0000 %   3.209

RR *** Sample ID: L14CND                Seq:  27     11:52:54 28 May 2010 HG
                                 SOLID
Hg     3.455   ppb        .0000 %   3.455

*** Sample ID: L14DH                    Seq:  28     11:54:12 28 May 2010 HG
                                 SOLID
Hg     .1677   ppb        .0000 %   .1677

*** Sample ID: L1XLQ                    Seq:  29     11:55:17 28 May 2010 HG
                                 SOLID
Hg     [illegible]  ppb        [illegible]
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------------

*** Sample ID: L14DD                    Seq:  30     11:56:22 28 May 2010 HG
                              SOLID
Hg     7.659   ppb        .0000 %   7.659

*** Sample ID: L1XLP                    Seq:  31     11:57:50 28 May 2010 HG
                              SOLID
Hg     .6968   ppb        .0000 %   .6968

*** Sample ID: L1XER                    Seq:  32     11:58:55 28 May 2010 HG
                              SOLID
Hg    73.55    ppb        .0000 %   73.55

*** Check Standard: 2  Ck2CCV           Seq:  33     12:00:03 28 May 2010 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          97.99    4.899   5.000  ppb        .0000 %

*** Check Standard: 1  Ck1CCB           Seq:  34     12:01:22 28 May 2010 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .0408    .2000    ppb        .0000 %

*** Sample ID: L14DA                    Seq:  35     12:02:28 28 May 2010 HG
                              SOLID
Hg     .0882   ppb        .0000 %   .0882

*** Sample ID: L1XLM                    Seq:  36     12:03:34 28 May 2010 HG
                              SOLID
Hg     2.311   ppb        .0000 %   2.311

*** Sample ID: L1XEW                    Seq:  37     12:04:41 28 May 2010 HG
                              SOLID
Hg     9.878   ppb        .0000 %   9.878

*** Sample ID: L1XLN                    Seq:  38     12:05:51 28 May 2010 HG
                              SOLID
Hg    99.01    ppb        .0000 %   99.01

*** Sample ID: L1XEN                    Seq:  39     12:07:00 28 May 2010 HG
                              SOLID
Hg     3.894   ppb        .0000 %   3.894

*** Sample ID: L135P                    Seq:  40     12:08:17 28 May 2010 HG
                              SOLID
Hg     .2969   ppb        .0000 %   .2969

*** Sample ID: L14DK                    Seq:  41     12:09:32 28 May 2010 HG
                              SOLID
Hg     [illegible]  ppb        [illegible]
```

Dilute

Dilute

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------------

*** Sample ID: L14C3                    Seq:  42     12:10:39 28 May 2010 HG
                                 SOLID
Hg     .4842   ppb        .0000 %   .4842

*** Sample ID: L1XEH                    Seq:  43     12:11:45 28 May 2010 HG
                                 SOLID
Hg    31.91    ppb        .0000 %   31.91

*** Sample ID: L1XL6                    Seq:  44     12:12:51 28 May 2010 HG
                                 SOLID
Hg    133.5    ppb        .0000 %   133.5

*** Check Standard: 2  Ck2CCV           Seq:  45     12:14:11 28 May 2010 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          90.27    4.513   5.000  ppb        .0000 %

*** Check Standard: 1  Ck1CCB           Seq:  46     12:15:15 28 May 2010 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.0508    .2000    ppb        .0000 %

*** Check Standard: 2  Ck2CCV           Seq:  47     12:37:51 28 May 2010 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          107.3    5.363   5.000  ppb        .0000 %

*** Check Standard: 1  Ck1CCB           Seq:  48     12:38:59 28 May 2010 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .0904    .2000    ppb        .0000 %

*** Sample ID: L136C                    Seq:  49     12:40:04 28 May 2010 HG
                                 SOLID
Hg    .2668    ppb        .0000 %   .2668

*** Sample ID: L136CS                   Seq:  50     12:41:09 28 May 2010 HG
                                 SOLID
Hg    1.264    ppb        .0000 %   1.264

*** Sample ID: L136CD                   Seq:  51     12:42:34 28 May 2010 HG
                                 SOLID
Hg    1.209    ppb        .0000 %   1.209

*** Sample ID: L1XEH/10                 Seq:  52     12:43:54 28 May 2010 HG
                                 SOLID
Hg    3.547    ppb        .0000 %   3.547

*** Sample ID: L1XL6/50                 Seq:  53     12:45:03 28 May 2010 HG
                                 SOLID
Hg    13.03    ppb        .0000 %   13.03
```

Dilute

Dilute

not needed

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Sample ID: L1XLN/50                Seq:  54     12:46:08 28 May 2010 HG
                              SOLID
Hg     5.973   ppb        .0000 %   5.973

*** Sample ID: L1XER/50                Seq:  55     12:47:14 28 May 2010 HG
                              SOLID
Hg     3.251   ppb        .0000 %   3.251

*** Check Standard: 2  Ck2CCV          Seq:  56     12:48:24 28 May 2010 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          105.7    5.287   5.000  ppb        .0000 %

*** Check Standard: 1  Ck1CCB          Seq:  57     12:49:44 28 May 2010 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .1250    .2000    ppb        .0000 %


*** Check Standard: 2  Ck2CCV          Seq:  58     12:54:28 28 May 2010 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          106.0    5.299   5.000  ppb        .0000 %

*** Check Standard: 1  Ck1CCB          Seq:  59     12:55:38 28 May 2010 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .0598    .2000    ppb        .0000 %

*** Sample ID: L14CN wgm 5-28-10       Seq:  60     12:56:44 28 May 2010 HG
                              SOLID
Hg     3.428   ppb        .0000 %   3.428

*** Sample ID: L14CNS wgm 5-28-10      Seq:  61     12:57:50 28 May 2010 HG
                              SOLID
Hg     3.228   ppb        .0000 %   3.228

*** Sample ID: L14CND wgm 5-28-10      Seq:  62     12:59:06 28 May 2010 HG
                              SOLID
Hg     3.506   ppb        .0000 %   3.506

*** Sample ID: L1XL/100 wgm 5-28-10    Seq:  63     13:00:12 28 May 2010 HG
                              SOLID
Hg     3.711   ppb        .0000 %   3.711

*** Check Standard: 2  Ck2CCV          Seq:  64     13:01:18 28 May 2010 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          104.8    5.240   5.000  ppb        .0000 %

*** Check Standard: 1  Ck1CCB          Seq:  65     13:02:24 28 May 2010 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
```

MISCELLANEOUS DATA

Metals Internal Chain of Custody

Date Prepared: 05/27/10 **Prep Analyst:** Lisa McGall

Laboratory Sample ID		Lab ID	Method	Analysis Date	Analyst	Instrument
A0E210574	1	L1XEH	SW846 7471A	05/28/10	Natalie Bucklew	H1
A0E210574	1	L1XEH	SW846 7471A	05/28/10	Natalie Musselman	H1
A0E210574	2	L1XEN	SW846 7471A	05/28/10	Natalie Bucklew	H1
A0E210574	2	L1XEN	SW846 7471A	05/28/10	Natalie Musselman	H1
A0E210574	3	L1XER	SW846 7471A	05/28/10	Natalie Bucklew	H1
A0E210574	3	L1XER	SW846 7471A	05/28/10	Natalie Musselman	H1
A0E210574	4	L1XEW	SW846 7471A	05/28/10	Natalie Bucklew	H1
A0E210574	4	L1XEW	SW846 7471A	05/28/10	Natalie Musselman	H1

U - Unfiltered F - Filtered T - TCLP L - SPLP East W - SPLP West

Preparation Type	Matrix	Amount of Standard added to LCS & MS/MSD		Initial Sample Vol/Wt	Final Sample Volume
		Amount	Standard name		
ICP	water	1 mL 1 mL 1.0 mL	Ag ICP-1 ICP-2A	50 mL	50 mL
ICPMS	water	0.5ml 0.5ml	ICPMS-1 ICPMS-2	50 mL	50 mL
Hg - CVAA	water	5 mL (LCS) 1 mL (MS/MSD)	HG-1 HG-1	100 mL	100 mL
Hg - CVAF (low level)	water	0.2 mL (LCS/MS/MSD)	HG ICAL	40 ml	40 ml
ICP	solid	2 mL 2 mL 2 mL	Ag ICP-1 ICP-2A	1.00 +/- .02g	100 mL
ICPMS	solid	1ml 1ml	ICPMS-1 ICPMS-2	1.00 +/- .02g	100ml
Hg - CVAA	solid	5 mL (LCS) 1 mL (MS/MSD)	HG-1 HG-1	0.60 +/- .01g	100 mL
ICP	TCLP	1 mL (LCS) 1 mL(LCS)	Ag ICP-1	50 mL	50 mL
ICP	TCLP	0.5 mL(MS/MSD)	TCLP Spike I RCRA	50 mL	50 mL
ICP	TCLP	1 mL(MS/MSD)	TCLP Spike II Non-RCRA	50 mL	50 mL
Hg - CVAA	TCLP	5 mL (LCS) 5 mL (MS/MSD)	HG-1 HG-1	100 mL	100 mL

Mercury Standards Preparation				
Final Concentration		Spiking Standard		
		Amount	Standard	Concentration
Calibration Standards:				
0.0002 ppm		0.2 mL	HG-2	0.1 ppm
0.0005 ppm		0.5 mL	HG-2	0.1 ppm
0.001 ppm		1 mL	HG-2	0.1 ppm
0.005 ppm		5 mL	HG-2	0.1 ppm
0.010 ppm		10 mL	HG-2	0.1 ppm
ICV Preparation				
0.0025 ppm		2.5 mL	HG-1	0.1 ppm
CCV Preparation:				
0.005 ppm		5 mL	HG-2	0.1 ppm

Low Level Mercury Standards Preparation				
Final Concentration		Spiking Standard		
		Amount	Standard	Concentration
Calibration Standards:				
0.5 ppt		20 ul	HG ICAL	1.0 ppb
1.0 ppt		40 ul	HG ICAL	1.0 ppb
2 ppt		80 ul	HG ICAL	1.0 ppb
5 ppt		200 ul	HG ICAL	1.0 ppb
10 ppt		400 ul	HG ICAL	1.0 ppb
25 ppt		1000 ul	HG ICAL	1.0 ppb
ICV Preparation				
5 ppt		200 ul	HG ICV	1.0 ppb
CCV Preparation:				
5 ppt		200 ul	HG ICAL	1.0 ppb

TestAmerica North Canton
Revised 1/9/07
N:\Metals\Preplog.xls

SPIKING STANDARD DEFINITIONS

Elements	Ag	ICP-1	ICP-2A	ICPMS-1	ICPMS-2	HG-1	HG-2	HG ICAL	HG ICV	TCLP Spike I	TCLP Spike II
Ag	2.5 ppm			10ppm						100 ppm	
Al		100 ppm			1000ppm						100 ppm
As		100 ppm		10ppm						500 ppm	
Ba		100 ppm		10ppm						5000 ppm	
Be		2.5 ppm		10ppm							2.5 ppm
Cd		2.5 ppm		10ppm						100 ppm	
Ca			2500 ppm		1000ppm						
Co		25 ppm		10ppm							25 ppm
Cr		10 ppm		10ppm						500 ppm	
Cu		12.5 ppm		10ppm							12.5 ppm
Fe		50 ppm			1000ppm						50 ppm
Hg						0.1 ppm	0.1 ppm	1.0 ppb	1.0 ppb		
K			2500 ppm		1000ppm						
Mg			2500 ppm		1000ppm						
Mn		25 ppm		10ppm							25 ppm
Na			2500 ppm		1000ppm						
Ni		25 ppm		10ppm							25 ppm
Pb		25 ppm		10ppm						500 ppm	
Sb		25 ppm		10ppm							25 ppm
Se		100 ppm		10ppm						100 ppm	
Tl		100 ppm		10ppm							100 ppm
V		25 ppm		10ppm							25 ppm
Zn		25 ppm		10ppm							25 ppm
B		50 ppm		10ppm							50 ppm
Sr		50 ppm		10ppm							
Mo		50 ppm		10ppm							50 ppm
W		50 ppm		10ppm							
Sn		100 ppm		10ppm							100 ppm
Zr		50 ppm		10ppm							
Ti		50 ppm		10ppm							

TestAmerica North Canton
Revised 4/5/02
N:\Metals\Preplog.xls

DATE: 5.27.10

METALS PREPARATION REAGENTS/STANDARDS

Reagents and Standards listed on this form are used for the entire day's prep batches unless otherwise noted on the individual prep log.

REAGENT NAME	REAGENT NUMBER
1:1 HNO_3 (nitric acid)	OMR 359
1:1 HCl (hydrochloric acid)	OMR 339
HNO_3 (nitric acid)	OMR 316
HCl (hydrochloric acid)	OMR 334
$KMnO_4$ (potassium permanganate)	OMR 352
$K_2S_2O_8$ (potassium persulfate)	OMR 280
H_2O_2 (hydrogen peroxide)	OMR 166
H_2SO_4 (sulfuric acid)	OMR 317
HCl/HNO_3 (aqua regia)	OMR 360

STANDARD NAME	STANDARD/LOT NUMBER
ICP-1	OE217
ICP-2A	OE213
RCRA	HPS 0935009
non-RCRA	HPS 0927320
Ag	OE243
Hg	OE255
ICPMS-1	HPS1008912A HPS1008921B
ICPMS-2	HPS0930821

Filter Paper Lot # K 11592821 A

0147-017

Waters

Hg time in the water bath (HB1) 8:50

Hg time out of the water bath (HB1) 10:50

Solids

Hg time in the water bath (HB1) 11:20

Hg time out of the water bath (HB1) 11:50

Times listed are for the waters and solids for that day unless otherwise noted.

All solid batches were weighed on balance number B030 unless otherwise noted.

Daily Batch Level II Lisa McGall

Test America North Canton
Revision Date: 4/4/08
N:\Metals/Reagent2.doc

GENERAL CHEMISTRY DATA

SAMPLE DATA

TestAmerica Seattle

Client Sample ID: 01CSBG

General Chemistry

Lot-Sample #...: A0E210574-001 **Work Order #...:** L1XEH **Matrix.....:** SO
Date Sampled...: 05/08/10 17:00 **Date Received..:** 05/21/10
% Moisture.....: 1.7

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**98.3**	**10.0**	**%**	**MCAWW 160.3 MOD**	**05/28-06/01/10**	**0148123**

Dilution Factor: 1 MDL.....: 10.0

TestAmerica Seattle

Client Sample ID: 03HMBG

General Chemistry

Lot-Sample #...: A0E210574-002 **Work Order #...:** L1XEN **Matrix.....:** SO
Date Sampled...: 05/16/10 12:45 **Date Received..:** 05/21/10
% Moisture.....: 16

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**84.3**	**10.0**	**%**	**MCAWW 160.3 MOD**	**05/28-06/01/10**	**0148123**

Dilution Factor: 1 MDL.....: 10.0

TestAmerica Seattle

Client Sample ID: 02CSBG

General Chemistry

Lot-Sample #...: A0E210574-003 **Work Order #...:** L1XER **Matrix.....:** SO
Date Sampled...: 05/14/10 15:15 **Date Received..:** 05/21/10
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**88.7**	**10.0**	**%**	**MCAWW 160.3 MOD**	**05/28-06/01/10**	**0148123**

Dilution Factor: 1 MDL.....: 10.0

TestAmerica Seattle

Client Sample ID: 02HMBG

General Chemistry

Lot-Sample #...: A0E210574-004 **Work Order #...:** L1XEW **Matrix.....:** SO
Date Sampled...: 05/07/10 08:55 **Date Received..:** 05/21/10
% Moisture.....: 6.7

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**93.3**	**10.0**	**%**	**MCAWW 160.3 MOD**	**05/28-06/01/10**	**0148123**

Dilution Factor: 1 MDL.....: 10.0

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0E210574 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #: L17JT1AA		MB Lot-Sample #:	A0E280000-123	
	ND	10.0	%	MCAWW 160.3 MOD	05/28-06/01/10	0148123
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0E210574 **Work Order #...:** L15E5-SMP L15E5-DUP **Matrix.....:** SOLID
Date Sampled...: 05/26/10 08:05 **Date Received..:** 05/27/10
% Moisture.....: 4.8

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0E270428-002		
	95.2	95.0	%	0.18	(0-20)	MCAWW 160.3 MOD	05/28-06/01/10	0148123

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0E210574 **Work Order #...:** L16QR-SMP L16QR-DUP **Matrix.....:** SOLID
Date Sampled...: 05/27/10 **Date Received..:** 05/27/10
% Moisture.....: 10

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #:	A0E270590-003	
	89.9	90.1	%	0.18	(0-20)	MCAWW 160.3 MOD	05/28-06/01/10	0148123

Dilution Factor: 1

SUPPORTIVE RAW DATA

			TestAmerica, North Canton			
		Percent Total Solid/Percent Moisture Logsheet				
		Method 160.3, 160.5, D2216-90, D1553-83				
Analysis	TS			Batch		148123
Prep Date	5/28/2010	Time In	11:22	Analyst	KH	
Anal date	6/1/2010	Time Out	6:45	RL	10	
Oven	**2**	Balance	**6**	Due Date:	**6/1/2010**	
Sample	Tare	Wet	Dry	Result TS	Result MS	Time
ID	wt	wt	wt	%	%	
BLANK	4.659	4.5868	4.5721	2.41	ND	10:44
L1XEH1AA	4.659	14.6418	14.4767	98.346	1.654	10:44
L1XEN1AA	4.659	10.5611	9.6337	84.287	15.713	10:44
L1XER1AA	4.659	10.7173	10.0335	88.713	11.287	10:45
L1XEW1AA	4.659	9.2907	8.9811	93.316	6.684	10:45
L1XLM1AA	4.659	11.0113	6.6677	31.622	68.378	10:45
L1XLN1AA	4.659	12.7119	12.1308	92.784	7.216	10:45
L1XLP1AA	4.659	15.4337	13.2860	80.067	19.933	10:46
L1XLQ1AA	4.659	14.2480	13.9401	96.789	3.211	10:46
L1XL61AA	4.659	7.6389	6.8697	74.187	25.813	10:46
L16P21AA	4.659	11.6850	10.9745	89.888	10.112	10:46
L16QQ1AA	4.659	9.8001	9.3066	90.401	9.599	10:47
L16QR1AA	4.659	9.9444	9.4113	89.914	10.086	10:47
L16QR1AD X	4.659	9.0011	8.5700	90.072	9.928	10:47
L16QT1AA	4.659	10.7920	10.2618	91.355	8.645	10:47
L16QV1AA	4.659	10.7022	10.1602	91.031	8.969	10:47
L16VK1AA	4.659	7.8105	7.5375	91.337	8.663	10:48
L16VT1AA	4.659	15.6920	15.0236	93.942	6.058	10:48
L16VW1AA	4.659	12.4647	12.1403	95.844	4.156	10:48
L15EH1AA	4.659	13.2709	12.7128	93.519	6.481	10:48
L15E51AA	4.659	9.3548	9.1299	95.211	4.789	10:48
L15E51AD X	4.659	7.7752	7.6206	95.039	4.961	10:49
L15E61AA	4.659	14.4853	13.9278	94.326	5.674	10:49

TestAmerica North Canton

Sample Control Chain of Custody for General Chemistry

Lot Number	Sample	Suffix	Lab ID	Test	Prep Date	Prepared by	Analysis Date	Analyzed by
A0E210574	1		L1XEH1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	05/28/10	Kyle Henry	06/01/10	Kyle Henry
A0E210574	2		L1XEN1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	05/28/10	Kyle Henry	06/01/10	Kyle Henry
A0E210574	3		L1XER1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	05/28/10	Kyle Henry	06/01/10	Kyle Henry
A0E210574	4		L1XEW1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	05/28/10	Kyle Henry	06/01/10	Kyle Henry

END OF REPORT

Shipping and Receiving Documents

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: 19399
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

Client Contact			
Company Name: Ecology and Environment, Inc.	Client Project Manager: Jim Petersen	Site Contact:	Lab Contact: Terri Torres
Address: 333 SW Fifth Ave Suite 600	Telephone: 503-248-5600	Telephone:	Telephone:
City/State/Zip: Portland, OR 97204	Email: JPetersen@eecom		
Phone: 503-248-5600 ex 2719			
Project Name: Helen Contact Sonoma Mine Sites	Method of Shipment/Carrier:		
Project Number: 001096.0X74175	Shipping/Tracking No:		
PO #			

COC No: 1 of 3 COCs

Analysis Turnaround Time (in BUS days)
TAT if different from below
☐ 3 weeks
☐ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

For lab use only
Walk-in client ☐
Lab pickup ☐
Lab sampling ☐
Job/SDG No:

	Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C/Grab=G	Analyses: TAL Metals + Hg	TAL Metals	Low level Hg							Sample Specific Notes / Special Instructions:
1	02SMRT1	5-9-10	1315				X							X				X									
2	01SMSS	5-9-10	0751				X							X				X									
3	02SMSS	5-9-10	0800				X							X				X									
4	01CSBG	5-8-10	1700				X							X					X	X							
5	03SMRT1	5-9-10	1330				X							X				X									
6	04SMRT1	5-9-10	1345				X							X				X									
7	05SMRT1	5-9-10	1355				X							X				X									
8	06SMRT1	5-9-10	1405				X							X				X									
9	03HMBG	5-16-10	1245				X							X					X	X							
10	02CSBG	5-14-10	1515				X							X					X	X							

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Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Courtney Frank	E+E	5-17-10 0900			
			Received in Laboratory by: K Wesley	TA	5/18/10 0850

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TAL-0018 (1008)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

19399 TestAmerica Laboratories, Inc.

Client Contact			
Company Name: Ecology and Environment, Inc.	Client Project Manager: Jim Petersen	Site Contact:	Lab Contact: Terri Torres	COC No:
Address: 333 SW fifth Ave Suite 600	Telephone: 503-248-5600	Telephone:	Telephone:	2 of 3 COCs
City/State/Zip: Portland, OR 97204	Email: JPetersen@ene.com			
Phone: 503-248-5600 ex 2719				
Project Name: Helen Contact Sonoma Mines	Method of Shipment/Carrier:			
Project Number: 001096.0X74/75	Shipping/Tracking No:			
P O #				

Analysis Turnaround Time (in BUS days)

TAT if different from below _____

☐ 3 weeks
☐ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

For lab use only

☐ Walk-in client
☐ Lab pickup
☐ Lab sampling

Job/SDG No:

	Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	Analyses: TAL Metals + Hg	TAL Metals	Low level Hg							Sample Specific Notes / Special Instructions:
11	10SMSS	5-9-10	1005				X							X				X									
12	02HMBG	5-7-10	0855				X							X			G	X	X	X							
13	03SMSS	5-9-10	0815				X							X				X									
14	01SM RT2	5-9-10	1500				X							X				X									
15	02SM RT2	5-9-10	1510				X							X				X									
16	03SM RT2	5-9-10	1515				X							X				X									
17	04SM RT2	5-9-10	1530				X							X				X									
18	05SM RT2	5-9-10	1537				X							X				X									
19	06SM RT2	5-9-10	1547				X							X				X									
20	01SM RT1	5-9-10	1305				X							X				X									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	E+E	5-17-10 0900			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TA	Date/Time: 5/18/10 0900

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TAL-0018 (1008)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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☐ Rush

☐ Short Hold

Chain of Custody Record

Client: Ecology and Environment, Inc.	Client Contact: Jim Petersen	Date: 5-17-10	Chain of Custody Number: 7238
Address: 333 SW Fifth Ave Suite 600	Telephone Number (Area Code)/Fax Number: 503-248-5600 ex 2719	Lab Number: 19399	Page 3 of 3
City: Portland; State: OR; Zip Code: 97204	Sampler:	Lab Contact:	
Project Name and Location (State): Helen, Contact, Sonoma Mine Sites	Billing Contact:		
Contract/Purchase Order/Quote No.: 0010916.0X74/15			

	Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): TAL Metals + Hg	PAHs	Special Instructions/ Conditions of Receipt
21	21HMSS	5-12-10	0850				X	X						X		
22	01HMST	5-5-10	1000				X	X						X	X	Hold PAHs
23	02HMST	5-12-10	1002				X	X						X	X	Hold PAHs
24	03HMST	5-12-10	1007				X	X						X	X	Hold PAHs
25	04HMST	5-12-10	1015				X	X						X	X	Hold PAHs
26	11SMSS	5-9-10	1011				X	X						X		
27	12SMSS	5-9-10	1025				X	X						X		
28	13SMSS	5-10-10	0815				X	X						X		
29	14SMSS	5-10-10	0830				X	X						X		
30	15SMSS	5-10-10	0845				X	X						X		
31	16SMSS	5-10-10	0855				X	X						X		
32	17SMSS	5-10-10	0905				X	X						X		

Cooler: ☐ Yes ☐ No Cooler Temp:_____

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For_____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By Sign/Print: Courtney Fenk	5-17-10	0900	1. Received By Sign/Print: K Presley K Presley	5/18/10	0850
2. Relinquished By Sign/Print			2. Received By Sign/Print		
3. Relinquished By Sign/Print			3. Received By Sign/Print		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

Login Sample Receipt Check List

Client: Ecology and Environment, Inc.

Job Number: 580-19399-1

Login Number: 19399

List Source: TestAmerica Tacoma

Creator: Presley, Kim

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	