

ANALYTICAL REPORT

Job Number: 460-110815-1

Job Description: DEC Elmont546; Site: E130150

For:

New York State D.E.C.
625 Broadway 9th Floor
Albany, NY 12233-7258

Attention: Mr. Brian Jankauskas

Melissa Haas

Approved for release.
Melissa Haas
Project Manager I
5/25/2016 3:47 PM

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05/25/2016
Revision: 1

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Job Number: 460-110815-1

Job Description: DEC Elmont546; Site: E130150

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A handwritten signature in black ink that reads "Melissa Haas". The signature is written in a cursive style with a horizontal line underneath.

Approved for release.
Melissa Haas
Project Manager I
5/25/2016 3:47 PM

Melissa Haas

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CASE NARRATIVE

Client: New York State D.E.C.

Project: DEC Elmont546; Site: E130150

**Report Number: 460-110815-1
Revised Report #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.

REVISION #1

The following report required a revision: 460-110815-1. Details are as follows: The client requested that ICVs be reported for SVOC analysis.

RECEIPT

The samples were received on 3/22/2016 7:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8° 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

Samples B2 (460-110815-1) and C2 (460-110815-2) were analyzed for Semivolatile organic compounds in accordance with EPA SW-846 Method 8270D. The samples were prepared on 03/29/2016 and analyzed on 03/30/2016.

The initial calibration curve analyzed in analytical batch 480-290883 was outside method criteria for the following analyte(s): 2,4-Dinitrophenol. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered an estimated concentration.

The continuing calibration verification (CCV) associated with batch 480-293176 recovered above the upper control limit for Benzaldehyde. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: B2 (460-110815-1) and C2 (460-110815-2).

The laboratory control sample (LCS) for batch preparation batch 480-293139 and analytical batch 480-293176 recovered outside control limits for the following analytes: Benzaldehyde. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

The laboratory control sample (LCS) in preparation batch 480-293139 and analytical batch 480-293176 recovered below control limits for 2,4-Dinitrophenol, Acetophenone and 2,3,4,6-Tetrachlorophenol. Insufficient volume remains for re-extraction and re-analysis of the following sample: B2 (460-110815-1) and C2 (460-110815-2). The data have been qualified and reported.

2,3,4,6-Tetrachlorophenol, 2,4-Dinitrophenol and Acetophenone failed the recovery criteria low for LCS 480-293139/2-A. Benzaldehyde failed the recovery criteria high.

Elevated reporting limits are provided for the following sample(s) due to insufficient sample provided for preparation.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 480-293666.

Refer to the QC report for details.

Samples B2 (460-110815-1)[5X] and C2 (460-110815-2)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The following sample was diluted due to the nature of the sample matrix: B2 (460-110815-1). Elevated reporting limits (RLs) are provided.

The following sample was diluted due to the nature of the sample matrix: C2 (460-110815-2). As such, surrogate recoveries are below the calibration range or are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8270D: The initial calibration verification (ICV) result for batch 480-290883 was above the upper control limit for Benzaldehyde. Associated samples were non-detect for this compound; therefore the data have been reported.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

METALS

Samples B2 (460-110815-1) and C2 (460-110815-2) were analyzed for Metals in accordance with EPA SW-846 Methods 6010C. The samples were prepared on 03/28/2016 and analyzed on 03/30/2016.

Antimony failed the recovery criteria low for the MS of sample B2MS (460-110815-1) in batch 460-359716. Aluminum, Iron, Lead and Manganese failed the recovery criteria high.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

Samples B2 (460-110815-1)[4X] and C2 (460-110815-2)[4X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the Metals analysis.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS/PERCENT MOISTURE

Samples B2 (460-110815-1) and C2 (460-110815-2) were analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 03/26/2016.

No difficulties were encountered during the %solids/moisture analysis.

All quality control parameters were within the acceptance limits.

Sample Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110815-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-110815-1	B2	Solid	03/22/16 13:05	03/22/16 19:40
460-110815-2	C2	Solid	03/22/16 13:00	03/22/16 19:40

Detection Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110815-1

Client Sample ID: B2

Lab Sample ID: 460-110815-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]anthracene	110	J	1100	110	ug/Kg	5	☼	8270D	Total/NA	
Benzo[g,h,i]perylene	430	J	1100	120	ug/Kg	5	☼	8270D	Total/NA	
Fluoranthene	160	J	1100	120	ug/Kg	5	☼	8270D	Total/NA	
Indeno[1,2,3-cd]pyrene	450	J	1100	130	ug/Kg	5	☼	8270D	Total/NA	
Aluminum	4890		36.1	18.6	mg/Kg	4	☼	6010C	Total/NA	
Barium	29.8	J	36.1	1.3	mg/Kg	4	☼	6010C	Total/NA	
Calcium	1300		902	53.4	mg/Kg	4	☼	6010C	Total/NA	
Chromium	6.4		1.8	0.87	mg/Kg	4	☼	6010C	Total/NA	
Cobalt	4.0	J	9.0	1.0	mg/Kg	4	☼	6010C	Total/NA	
Copper	5.5		4.5	1.2	mg/Kg	4	☼	6010C	Total/NA	
Iron	7280		27.1	20.4	mg/Kg	4	☼	6010C	Total/NA	
Lead	30.1		1.8	0.71	mg/Kg	4	☼	6010C	Total/NA	
Magnesium	619	J	902	45.0	mg/Kg	4	☼	6010C	Total/NA	
Manganese	282		2.7	0.95	mg/Kg	4	☼	6010C	Total/NA	
Nickel	10.7		7.2	1.3	mg/Kg	4	☼	6010C	Total/NA	
Potassium	197	J	902	27.3	mg/Kg	4	☼	6010C	Total/NA	
Vanadium	7.0	J	9.0	0.90	mg/Kg	4	☼	6010C	Total/NA	
Zinc	31.1		5.4	1.3	mg/Kg	4	☼	6010C	Total/NA	

Client Sample ID: C2

Lab Sample ID: 460-110815-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Benzo[a]anthracene	610	J	3700	370	ug/Kg	20	☼	8270D	Total/NA	
Benzo[a]pyrene	540	J	3700	540	ug/Kg	20	☼	8270D	Total/NA	
Benzo[b]fluoranthene	720	J	3700	580	ug/Kg	20	☼	8270D	Total/NA	
Benzo[g,h,i]perylene	1600	J	3700	390	ug/Kg	20	☼	8270D	Total/NA	
Fluoranthene	1100	J	3700	390	ug/Kg	20	☼	8270D	Total/NA	
Indeno[1,2,3-cd]pyrene	1600	J	3700	450	ug/Kg	20	☼	8270D	Total/NA	
Pyrene	860	J	3700	430	ug/Kg	20	☼	8270D	Total/NA	
Aluminum	4820		36.5	18.8	mg/Kg	4	☼	6010C	Total/NA	
Arsenic	2.0	J	2.7	0.90	mg/Kg	4	☼	6010C	Total/NA	
Barium	73.4		36.5	1.3	mg/Kg	4	☼	6010C	Total/NA	
Beryllium	0.32	J	0.37	0.31	mg/Kg	4	☼	6010C	Total/NA	
Calcium	5320		914	54.1	mg/Kg	4	☼	6010C	Total/NA	
Chromium	20.5		1.8	0.88	mg/Kg	4	☼	6010C	Total/NA	
Cobalt	2.5	J	9.1	1.1	mg/Kg	4	☼	6010C	Total/NA	
Copper	20.1		4.6	1.2	mg/Kg	4	☼	6010C	Total/NA	
Iron	8900		27.4	20.6	mg/Kg	4	☼	6010C	Total/NA	
Lead	138		1.8	0.72	mg/Kg	4	☼	6010C	Total/NA	
Magnesium	1370		914	45.6	mg/Kg	4	☼	6010C	Total/NA	
Manganese	493		2.7	0.96	mg/Kg	4	☼	6010C	Total/NA	
Nickel	14.2		7.3	1.3	mg/Kg	4	☼	6010C	Total/NA	
Potassium	233	J	914	27.7	mg/Kg	4	☼	6010C	Total/NA	
Vanadium	9.4		9.1	0.91	mg/Kg	4	☼	6010C	Total/NA	
Zinc	127		5.5	1.3	mg/Kg	4	☼	6010C	Total/NA	

This Detection Summary does not include radiochemical test results.

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Method Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110815-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
6010C	Metals (ICP)	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Client Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110815-1

Client Sample ID: B2

Date Collected: 03/22/16 13:05

Date Received: 03/22/16 19:40

Lab Sample ID: 460-110815-1

Matrix: Solid

Percent Solids: 92.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	1100	U	1100	160	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
1,2,4,5-Tetrachlorobenzene	1100	U	1100	190	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
2,2'-oxybis[1-chloropropane]	1100	U	1100	220	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
2,3,4,6-Tetrachlorophenol	1100	U *	1100	220	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
2,4,5-Trichlorophenol	1100	U	1100	300	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
2,4,6-Trichlorophenol	1100	U	1100	220	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
2,4-Dichlorophenol	1100	U	1100	120	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
2,4-Dimethylphenol	1100	U	1100	260	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
2,4-Dinitrophenol	11000	U *	11000	5000	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
2,4-Dinitrotoluene	1100	U	1100	220	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
2,6-Dinitrotoluene	1100	U	1100	130	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
2-Chloronaphthalene	1100	U	1100	180	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
2-Chlorophenol	1100	U	1100	200	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
2-Methylnaphthalene	1100	U	1100	220	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
2-Methylphenol	1100	U	1100	130	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
2-Nitroaniline	2100	U	2100	160	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
2-Nitrophenol	1100	U	1100	310	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
3,3'-Dichlorobenzidine	2100	U	2100	1300	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
3-Nitroaniline	2100	U	2100	300	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
4,6-Dinitro-2-methylphenol	2100	U	2100	1100	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
4-Bromophenyl phenyl ether	1100	U	1100	150	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
4-Chloro-3-methylphenol	1100	U	1100	270	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
4-Chloroaniline	1100	U	1100	270	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
4-Chlorophenyl phenyl ether	1100	U	1100	130	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
4-Methylphenol	2100	U	2100	130	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
4-Nitroaniline	2100	U	2100	570	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
4-Nitrophenol	2100	U	2100	760	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Acenaphthene	1100	U	1100	160	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Acenaphthylene	1100	U	1100	140	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Acetophenone	1100	U *	1100	150	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Anthracene	1100	U	1100	270	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Atrazine	1100	U	1100	380	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Benzaldehyde	1100	U *	1100	870	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Benzo[a]anthracene	110	J	1100	110	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Benzo[a]pyrene	1100	U	1100	160	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Benzo[b]fluoranthene	1100	U	1100	170	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Benzo[g,h,i]perylene	430	J	1100	120	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Benzo[k]fluoranthene	1100	U	1100	140	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Bis(2-chloroethoxy)methane	1100	U	1100	230	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Bis(2-chloroethyl)ether	1100	U	1100	140	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Bis(2-ethylhexyl) phthalate	1100	U	1100	370	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Butyl benzyl phthalate	1100	U	1100	180	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Caprolactam	1100	U	1100	330	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Carbazole	1100	U	1100	130	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Chrysene	1100	U	1100	240	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Dibenz(a,h)anthracene	1100	U	1100	190	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Dibenzofuran	1100	U	1100	130	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Diethyl phthalate	1100	U	1100	140	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Dimethyl phthalate	1100	U	1100	130	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5

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Client Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110815-1

Client Sample ID: B2

Date Collected: 03/22/16 13:05

Date Received: 03/22/16 19:40

Lab Sample ID: 460-110815-1

Matrix: Solid

Percent Solids: 92.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	1100	U	1100	190	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Di-n-octyl phthalate	1100	U	1100	130	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Fluoranthene	160	J	1100	120	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Fluorene	1100	U	1100	130	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Hexachlorobenzene	1100	U	1100	150	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Hexachlorobutadiene	1100	U	1100	160	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Hexachlorocyclopentadiene	1100	U	1100	150	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Hexachloroethane	1100	U	1100	140	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Indeno[1,2,3-cd]pyrene	450	J	1100	130	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Isophorone	1100	U	1100	230	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Naphthalene	1100	U	1100	140	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Nitrobenzene	1100	U	1100	120	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
N-Nitrosodi-n-propylamine	1100	U	1100	190	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
N-Nitrosodiphenylamine	1100	U	1100	890	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Pentachlorophenol	2100	U	2100	1100	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Phenanthrene	1100	U	1100	160	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Phenol	1100	U	1100	170	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5
Pyrene	1100	U	1100	130	ug/Kg	☼	03/29/16 16:12	03/30/16 11:03	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	89		39 - 146	03/29/16 16:12	03/30/16 11:03	5
2-Fluorobiphenyl	91		37 - 120	03/29/16 16:12	03/30/16 11:03	5
2-Fluorophenol (Surr)	84		18 - 120	03/29/16 16:12	03/30/16 11:03	5
Nitrobenzene-d5 (Surr)	74		34 - 132	03/29/16 16:12	03/30/16 11:03	5
Phenol-d5 (Surr)	83		11 - 120	03/29/16 16:12	03/30/16 11:03	5
p-Terphenyl-d14 (Surr)	87		65 - 153	03/29/16 16:12	03/30/16 11:03	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4890		36.1	18.6	mg/Kg	☼	03/28/16 18:47	03/30/16 14:26	4
Antimony	3.6	U	3.6	1.4	mg/Kg	☼	03/28/16 18:47	03/30/16 14:26	4
Arsenic	2.7	U	2.7	0.89	mg/Kg	☼	03/28/16 18:47	03/30/16 14:26	4
Barium	29.8	J	36.1	1.3	mg/Kg	☼	03/28/16 18:47	03/30/16 14:26	4
Beryllium	0.36	U	0.36	0.31	mg/Kg	☼	03/28/16 18:47	03/30/16 14:26	4
Cadmium	0.72	U	0.72	0.38	mg/Kg	☼	03/28/16 18:47	03/30/16 14:26	4
Calcium	1300		902	53.4	mg/Kg	☼	03/28/16 18:47	03/30/16 14:26	4
Chromium	6.4		1.8	0.87	mg/Kg	☼	03/28/16 18:47	03/30/16 14:26	4
Cobalt	4.0	J	9.0	1.0	mg/Kg	☼	03/28/16 18:47	03/30/16 14:26	4
Copper	5.5		4.5	1.2	mg/Kg	☼	03/28/16 18:47	03/30/16 14:26	4
Iron	7280		27.1	20.4	mg/Kg	☼	03/28/16 18:47	03/30/16 14:26	4
Lead	30.1		1.8	0.71	mg/Kg	☼	03/28/16 18:47	03/30/16 14:26	4
Magnesium	619	J	902	45.0	mg/Kg	☼	03/28/16 18:47	03/30/16 14:26	4
Manganese	282		2.7	0.95	mg/Kg	☼	03/28/16 18:47	03/30/16 14:26	4
Nickel	10.7		7.2	1.3	mg/Kg	☼	03/28/16 18:47	03/30/16 14:26	4
Potassium	197	J	902	27.3	mg/Kg	☼	03/28/16 18:47	03/30/16 14:26	4
Selenium	3.6	U	3.6	1.2	mg/Kg	☼	03/28/16 18:47	03/30/16 14:26	4
Silver	1.8	U	1.8	0.32	mg/Kg	☼	03/28/16 18:47	03/30/16 14:26	4
Sodium	902	U	902	61.1	mg/Kg	☼	03/28/16 18:47	03/30/16 14:26	4
Thallium	3.6	U	3.6	1.6	mg/Kg	☼	03/28/16 18:47	03/30/16 14:26	4
Vanadium	7.0	J	9.0	0.90	mg/Kg	☼	03/28/16 18:47	03/30/16 14:26	4

TestAmerica Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110815-1

Client Sample ID: B2

Date Collected: 03/22/16 13:05

Date Received: 03/22/16 19:40

Lab Sample ID: 460-110815-1

Matrix: Solid

Percent Solids: 92.4

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	31.1		5.4	1.3	mg/Kg	☼	03/28/16 18:47	03/30/16 14:26	4

Client Sample ID: C2

Date Collected: 03/22/16 13:00

Date Received: 03/22/16 19:40

Lab Sample ID: 460-110815-2

Matrix: Solid

Percent Solids: 91.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	3700	U	3700	540	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
1,2,4,5-Tetrachlorobenzene	3700	U	3700	620	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
2,2'-oxybis[1-chloropropane]	3700	U	3700	730	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
2,3,4,6-Tetrachlorophenol	3700	U *	3700	750	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
2,4,5-Trichlorophenol	3700	U	3700	990	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
2,4,6-Trichlorophenol	3700	U	3700	730	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
2,4-Dichlorophenol	3700	U	3700	390	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
2,4-Dimethylphenol	3700	U	3700	880	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
2,4-Dinitrophenol	36000	U *	36000	17000	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
2,4-Dinitrotoluene	3700	U	3700	750	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
2,6-Dinitrotoluene	3700	U	3700	430	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
2-Chloronaphthalene	3700	U	3700	600	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
2-Chlorophenol	3700	U	3700	670	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
2-Methylnaphthalene	3700	U	3700	730	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
2-Methylphenol	3700	U	3700	430	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
2-Nitroaniline	7100	U	7100	540	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
2-Nitrophenol	3700	U	3700	1000	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
3,3'-Dichlorobenzidine	7100	U	7100	4300	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
3-Nitroaniline	7100	U	7100	1000	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
4,6-Dinitro-2-methylphenol	7100	U	7100	3700	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
4-Bromophenyl phenyl ether	3700	U	3700	520	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
4-Chloro-3-methylphenol	3700	U	3700	900	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
4-Chloroaniline	3700	U	3700	900	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
4-Chlorophenyl phenyl ether	3700	U	3700	450	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
4-Methylphenol	7100	U	7100	430	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
4-Nitroaniline	7100	U	7100	1900	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
4-Nitrophenol	7100	U	7100	2600	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Acenaphthene	3700	U	3700	540	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Acenaphthylene	3700	U	3700	470	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Acetophenone	3700	U *	3700	490	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Anthracene	3700	U	3700	900	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Atrazine	3700	U	3700	1300	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Benzaldehyde	3700	U *	3700	2900	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Benzo[a]anthracene	610	J	3700	370	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Benzo[a]pyrene	540	J	3700	540	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Benzo[b]fluoranthene	720	J	3700	580	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Benzo[g,h,i]perylene	1600	J	3700	390	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Benzo[k]fluoranthene	3700	U	3700	470	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Bis(2-chloroethoxy)methane	3700	U	3700	770	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Bis(2-chloroethyl)ether	3700	U	3700	470	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Bis(2-ethylhexyl) phthalate	3700	U	3700	1200	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Butyl benzyl phthalate	3700	U	3700	600	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20

TestAmerica Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110815-1

Client Sample ID: C2

Date Collected: 03/22/16 13:00

Date Received: 03/22/16 19:40

Lab Sample ID: 460-110815-2

Matrix: Solid

Percent Solids: 91.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	3700	U	3700	1100	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Carbazole	3700	U	3700	430	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Chrysene	3700	U	3700	820	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Dibenz(a,h)anthracene	3700	U	3700	650	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Dibenzofuran	3700	U	3700	430	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Diethyl phthalate	3700	U	3700	470	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Dimethyl phthalate	3700	U	3700	430	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Di-n-butyl phthalate	3700	U	3700	620	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Di-n-octyl phthalate	3700	U	3700	430	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Fluoranthene	1100	J	3700	390	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Fluorene	3700	U	3700	430	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Hexachlorobenzene	3700	U	3700	490	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Hexachlorobutadiene	3700	U	3700	540	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Hexachlorocyclopentadiene	3700	U	3700	490	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Hexachloroethane	3700	U	3700	470	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Indeno[1,2,3-cd]pyrene	1600	J	3700	450	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Isophorone	3700	U	3700	770	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Naphthalene	3700	U	3700	470	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Nitrobenzene	3700	U	3700	410	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
N-Nitrosodi-n-propylamine	3700	U	3700	620	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
N-Nitrosodiphenylamine	3700	U	3700	3000	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Pentachlorophenol	7100	U	7100	3700	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Phenanthrene	3700	U	3700	540	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Phenol	3700	U	3700	560	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20
Pyrene	860	J	3700	430	ug/Kg	☼	03/29/16 16:12	03/30/16 11:30	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	141		39 - 146	03/29/16 16:12	03/30/16 11:30	20
2-Fluorobiphenyl	71		37 - 120	03/29/16 16:12	03/30/16 11:30	20
2-Fluorophenol (Surr)	62		18 - 120	03/29/16 16:12	03/30/16 11:30	20
Nitrobenzene-d5 (Surr)	53		34 - 132	03/29/16 16:12	03/30/16 11:30	20
Phenol-d5 (Surr)	64		11 - 120	03/29/16 16:12	03/30/16 11:30	20
p-Terphenyl-d14 (Surr)	66		65 - 153	03/29/16 16:12	03/30/16 11:30	20

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	4820		36.5	18.8	mg/Kg	☼	03/28/16 18:47	03/30/16 16:52	4
Antimony	3.7	U	3.7	1.4	mg/Kg	☼	03/28/16 18:47	03/30/16 16:52	4
Arsenic	2.0	J	2.7	0.90	mg/Kg	☼	03/28/16 18:47	03/30/16 16:52	4
Barium	73.4		36.5	1.3	mg/Kg	☼	03/28/16 18:47	03/30/16 16:52	4
Beryllium	0.32	J	0.37	0.31	mg/Kg	☼	03/28/16 18:47	03/30/16 16:52	4
Cadmium	0.73	U	0.73	0.38	mg/Kg	☼	03/28/16 18:47	03/30/16 16:52	4
Calcium	5320		914	54.1	mg/Kg	☼	03/28/16 18:47	03/30/16 16:52	4
Chromium	20.5		1.8	0.88	mg/Kg	☼	03/28/16 18:47	03/30/16 16:52	4
Cobalt	2.5	J	9.1	1.1	mg/Kg	☼	03/28/16 18:47	03/30/16 16:52	4
Copper	20.1		4.6	1.2	mg/Kg	☼	03/28/16 18:47	03/30/16 16:52	4
Iron	8900		27.4	20.6	mg/Kg	☼	03/28/16 18:47	03/30/16 16:52	4
Lead	138		1.8	0.72	mg/Kg	☼	03/28/16 18:47	03/30/16 16:52	4
Magnesium	1370		914	45.6	mg/Kg	☼	03/28/16 18:47	03/30/16 16:52	4
Manganese	493		2.7	0.96	mg/Kg	☼	03/28/16 18:47	03/30/16 16:52	4

TestAmerica Edison

Client Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110815-1

Client Sample ID: C2

Date Collected: 03/22/16 13:00

Date Received: 03/22/16 19:40

Lab Sample ID: 460-110815-2

Matrix: Solid

Percent Solids: 91.2

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	14.2		7.3	1.3	mg/Kg	☼	03/28/16 18:47	03/30/16 16:52	4
Potassium	233	J	914	27.7	mg/Kg	☼	03/28/16 18:47	03/30/16 16:52	4
Selenium	3.7	U	3.7	1.3	mg/Kg	☼	03/28/16 18:47	03/30/16 16:52	4
Silver	1.8	U	1.8	0.32	mg/Kg	☼	03/28/16 18:47	03/30/16 16:52	4
Sodium	914	U	914	61.9	mg/Kg	☼	03/28/16 18:47	03/30/16 16:52	4
Thallium	3.7	U	3.7	1.6	mg/Kg	☼	03/28/16 18:47	03/30/16 16:52	4
Vanadium	9.4		9.1	0.91	mg/Kg	☼	03/28/16 18:47	03/30/16 16:52	4
Zinc	127		5.5	1.3	mg/Kg	☼	03/28/16 18:47	03/30/16 16:52	4

Surrogate Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110815-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TBP (39-146)	FBP (37-120)	2FP (18-120)	NBZ (34-132)	PHL (11-120)	TPH (65-153)
460-110815-1	B2	89	91	84	74	83	87
460-110815-2	C2	141	71	62	53	64	66
LCS 480-293139/2-A	Lab Control Sample	72	77	61	65	67	86
MB 480-293139/1-A	Method Blank	54	91	69	75	79	99

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPH = p-Terphenyl-d14 (Surr)

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110815-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-293139/1-A

Matrix: Solid

Analysis Batch: 293176

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 293139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	170	U	170	25	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
1,2,4,5-Tetrachlorobenzene	170	U	170	29	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2,2'-oxybis[1-chloropropane]	170	U	170	34	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2,3,4,6-Tetrachlorophenol	170	U	170	35	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2,4,5-Trichlorophenol	170	U	170	46	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2,4,6-Trichlorophenol	170	U	170	34	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2,4-Dichlorophenol	170	U	170	18	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2,4-Dimethylphenol	170	U	170	41	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2,4-Dinitrophenol	1700	U	1700	780	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2,4-Dinitrotoluene	170	U	170	35	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2,6-Dinitrotoluene	170	U	170	20	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2-Chloronaphthalene	170	U	170	28	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2-Chlorophenol	170	U	170	31	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2-Methylnaphthalene	170	U	170	34	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2-Methylphenol	170	U	170	20	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2-Nitroaniline	330	U	330	25	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
2-Nitrophenol	170	U	170	48	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
3,3'-Dichlorobenzidine	330	U	330	200	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
3-Nitroaniline	330	U	330	47	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
4,6-Dinitro-2-methylphenol	330	U	330	170	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
4-Bromophenyl phenyl ether	170	U	170	24	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
4-Chloro-3-methylphenol	170	U	170	42	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
4-Chloroaniline	170	U	170	42	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
4-Chlorophenyl phenyl ether	170	U	170	21	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
4-Methylphenol	330	U	330	20	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
4-Nitroaniline	330	U	330	89	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
4-Nitrophenol	330	U	330	120	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Acenaphthene	170	U	170	25	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Acenaphthylene	170	U	170	22	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Acetophenone	170	U	170	23	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Anthracene	170	U	170	42	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Atrazine	170	U	170	59	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Benzaldehyde	170	U	170	130	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Benzo[a]anthracene	170	U	170	17	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Benzo[a]pyrene	170	U	170	25	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Benzo[b]fluoranthene	170	U	170	27	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Benzo[g,h,i]perylene	170	U	170	18	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Benzo[k]fluoranthene	170	U	170	22	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Bis(2-chloroethoxy)methane	170	U	170	36	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Bis(2-chloroethyl)ether	170	U	170	22	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Bis(2-ethylhexyl) phthalate	170	U	170	58	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Butyl benzyl phthalate	170	U	170	28	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Caprolactam	170	U	170	51	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Carbazole	170	U	170	20	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Chrysene	170	U	170	38	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Dibenz(a,h)anthracene	170	U	170	30	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Dibenzofuran	170	U	170	20	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Diethyl phthalate	170	U	170	22	ug/Kg		03/29/16 16:12	03/30/16 08:24	1

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110815-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-293139/1-A

Matrix: Solid

Analysis Batch: 293176

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 293139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	170	U	170	20	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Di-n-butyl phthalate	170	U	170	29	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Di-n-octyl phthalate	170	U	170	20	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Fluoranthene	170	U	170	18	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Fluorene	170	U	170	20	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Hexachlorobenzene	170	U	170	23	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Hexachlorobutadiene	170	U	170	25	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Hexachlorocyclopentadiene	170	U	170	23	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Hexachloroethane	170	U	170	22	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Indeno[1,2,3-cd]pyrene	170	U	170	21	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Isophorone	170	U	170	36	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Naphthalene	170	U	170	22	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Nitrobenzene	170	U	170	19	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
N-Nitrosodi-n-propylamine	170	U	170	29	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
N-Nitrosodiphenylamine	170	U	170	140	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Pentachlorophenol	330	U	330	170	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Phenanthrene	170	U	170	25	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Phenol	170	U	170	26	ug/Kg		03/29/16 16:12	03/30/16 08:24	1
Pyrene	170	U	170	20	ug/Kg		03/29/16 16:12	03/30/16 08:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	54		39 - 146	03/29/16 16:12	03/30/16 08:24	1
2-Fluorobiphenyl	91		37 - 120	03/29/16 16:12	03/30/16 08:24	1
2-Fluorophenol (Surr)	69		18 - 120	03/29/16 16:12	03/30/16 08:24	1
Nitrobenzene-d5 (Surr)	75		34 - 132	03/29/16 16:12	03/30/16 08:24	1
Phenol-d5 (Surr)	79		11 - 120	03/29/16 16:12	03/30/16 08:24	1
p-Terphenyl-d14 (Surr)	99		65 - 153	03/29/16 16:12	03/30/16 08:24	1

Lab Sample ID: LCS 480-293139/2-A

Matrix: Solid

Analysis Batch: 293176

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 293139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	1620	1210		ug/Kg		75	71 - 120
1,2,4,5-Tetrachlorobenzene	1620	1200		ug/Kg		74	59 - 125
2,2'-oxybis[1-chloropropane]	1620	1020		ug/Kg		63	44 - 120
2,3,4,6-Tetrachlorophenol	1620	987	*	ug/Kg		61	71 - 150
2,4,5-Trichlorophenol	1620	1000		ug/Kg		62	59 - 126
2,4,6-Trichlorophenol	1620	1090		ug/Kg		68	59 - 123
2,4-Dichlorophenol	1620	1020		ug/Kg		63	52 - 120
2,4-Dimethylphenol	1620	1120		ug/Kg		69	36 - 120
2,4-Dinitrophenol	3240	872	J *	ug/Kg		27	35 - 146
2,4-Dinitrotoluene	1620	1250		ug/Kg		77	55 - 125
2,6-Dinitrotoluene	1620	1300		ug/Kg		80	66 - 128
2-Chloronaphthalene	1620	1180		ug/Kg		73	57 - 120
2-Chlorophenol	1620	1000		ug/Kg		62	38 - 120
2-Methylnaphthalene	1620	1130		ug/Kg		70	47 - 120
2-Methylphenol	1620	1080		ug/Kg		67	48 - 120

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110815-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-293139/2-A

Matrix: Solid

Analysis Batch: 293176

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 293139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitroaniline	1620	1190		ug/Kg		74	61 - 130
2-Nitrophenol	1620	1070		ug/Kg		66	50 - 120
3,3'-Dichlorobenzidine	3240	2330		ug/Kg		72	48 - 126
3-Nitroaniline	1620	1030		ug/Kg		64	61 - 127
4,6-Dinitro-2-methylphenol	3240	1750		ug/Kg		54	49 - 155
4-Bromophenyl phenyl ether	1620	1330		ug/Kg		82	58 - 131
4-Chloro-3-methylphenol	1620	1140		ug/Kg		70	49 - 125
4-Chloroaniline	1620	801		ug/Kg		49	49 - 120
4-Chlorophenyl phenyl ether	1620	1240		ug/Kg		77	63 - 124
4-Methylphenol	1620	1080		ug/Kg		66	50 - 119
4-Nitroaniline	1620	1160		ug/Kg		71	63 - 128
4-Nitrophenol	3240	1870		ug/Kg		58	43 - 137
Acenaphthene	1620	1210		ug/Kg		75	53 - 120
Acenaphthylene	1620	1190		ug/Kg		74	58 - 121
Acetophenone	1620	1040	*	ug/Kg		64	66 - 120
Anthracene	1620	1260		ug/Kg		78	62 - 129
Atrazine	3240	2760		ug/Kg		85	60 - 164
Benzaldehyde	3240	4600	E *	ug/Kg		142	21 - 120
Benzo[a]anthracene	1620	1330		ug/Kg		82	65 - 133
Benzo[a]pyrene	1620	1350		ug/Kg		83	64 - 127
Benzo[b]fluoranthene	1620	1370		ug/Kg		85	64 - 135
Benzo[g,h,i]perylene	1620	1450		ug/Kg		89	50 - 152
Benzo[k]fluoranthene	1620	1330		ug/Kg		82	58 - 138
Bis(2-chloroethoxy)methane	1620	1130		ug/Kg		70	61 - 133
Bis(2-chloroethyl)ether	1620	1050		ug/Kg		65	45 - 120
Bis(2-ethylhexyl) phthalate	1620	1400		ug/Kg		87	61 - 133
Butyl benzyl phthalate	1620	1330		ug/Kg		82	61 - 129
Caprolactam	3240	1780		ug/Kg		55	54 - 133
Carbazole	1620	1260		ug/Kg		78	59 - 129
Chrysene	1620	1330		ug/Kg		82	64 - 131
Dibenz(a,h)anthracene	1620	1360		ug/Kg		84	54 - 148
Dibenzofuran	1620	1210		ug/Kg		75	56 - 120
Diethyl phthalate	1620	1240		ug/Kg		77	66 - 126
Dimethyl phthalate	1620	1230		ug/Kg		76	65 - 124
Di-n-butyl phthalate	1620	1290		ug/Kg		80	58 - 130
Di-n-octyl phthalate	1620	1270		ug/Kg		78	62 - 133
Fluoranthene	1620	1300		ug/Kg		80	62 - 131
Fluorene	1620	1220		ug/Kg		75	63 - 126
Hexachlorobenzene	1620	1360		ug/Kg		84	60 - 132
Hexachlorobutadiene	1620	1090		ug/Kg		67	45 - 120
Hexachlorocyclopentadiene	1620	1030		ug/Kg		64	31 - 120
Hexachloroethane	1620	953		ug/Kg		59	41 - 120
Indeno[1,2,3-cd]pyrene	1620	1360		ug/Kg		84	56 - 149
Isophorone	1620	1150		ug/Kg		71	56 - 120
Naphthalene	1620	1090		ug/Kg		67	46 - 120
Nitrobenzene	1620	1110		ug/Kg		68	49 - 120
N-Nitrosodi-n-propylamine	1620	1070		ug/Kg		66	46 - 120
N-Nitrosodiphenylamine	1620	1280		ug/Kg		79	20 - 119

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110815-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 480-293139/2-A

Matrix: Solid

Analysis Batch: 293176

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 293139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	3240	1390		ug/Kg		43	33 - 136
Phenanthrene	1620	1260		ug/Kg		78	60 - 130
Phenol	1620	1050		ug/Kg		65	36 - 120
Pyrene	1620	1370		ug/Kg		85	51 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	72		39 - 146
2-Fluorobiphenyl	77		37 - 120
2-Fluorophenol (Surr)	61		18 - 120
Nitrobenzene-d5 (Surr)	65		34 - 132
Phenol-d5 (Surr)	67		11 - 120
p-Terphenyl-d14 (Surr)	86		65 - 153

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 460-359247/1-A ^2

Matrix: Solid

Analysis Batch: 359716

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 359247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20.0	U	20.0	10.3	mg/Kg		03/28/16 18:47	03/30/16 14:01	2
Antimony	2.0	U	2.0	0.79	mg/Kg		03/28/16 18:47	03/30/16 14:01	2
Arsenic	1.5	U	1.5	0.49	mg/Kg		03/28/16 18:47	03/30/16 14:01	2
Barium	20.0	U	20.0	0.72	mg/Kg		03/28/16 18:47	03/30/16 14:01	2
Beryllium	0.20	U	0.20	0.17	mg/Kg		03/28/16 18:47	03/30/16 14:01	2
Cadmium	0.40	U	0.40	0.21	mg/Kg		03/28/16 18:47	03/30/16 14:01	2
Calcium	500	U	500	29.6	mg/Kg		03/28/16 18:47	03/30/16 14:01	2
Chromium	1.0	U	1.0	0.48	mg/Kg		03/28/16 18:47	03/30/16 14:01	2
Cobalt	5.0	U	5.0	0.58	mg/Kg		03/28/16 18:47	03/30/16 14:01	2
Copper	2.5	U	2.5	0.65	mg/Kg		03/28/16 18:47	03/30/16 14:01	2
Iron	15.0	U	15.0	11.3	mg/Kg		03/28/16 18:47	03/30/16 14:01	2
Lead	1.0	U	1.0	0.39	mg/Kg		03/28/16 18:47	03/30/16 14:01	2
Magnesium	500	U	500	25.0	mg/Kg		03/28/16 18:47	03/30/16 14:01	2
Manganese	1.5	U	1.5	0.53	mg/Kg		03/28/16 18:47	03/30/16 14:01	2
Nickel	4.0	U	4.0	0.73	mg/Kg		03/28/16 18:47	03/30/16 14:01	2
Potassium	500	U	500	15.2	mg/Kg		03/28/16 18:47	03/30/16 14:01	2
Selenium	2.0	U	2.0	0.69	mg/Kg		03/28/16 18:47	03/30/16 14:01	2
Silver	1.0	U	1.0	0.18	mg/Kg		03/28/16 18:47	03/30/16 14:01	2
Sodium	500	U	500	33.9	mg/Kg		03/28/16 18:47	03/30/16 14:01	2
Thallium	2.0	U	2.0	0.89	mg/Kg		03/28/16 18:47	03/30/16 14:01	2
Vanadium	5.0	U	5.0	0.50	mg/Kg		03/28/16 18:47	03/30/16 14:01	2
Zinc	3.0	U	3.0	0.73	mg/Kg		03/28/16 18:47	03/30/16 14:01	2

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110815-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 460-359247/2-A
Matrix: Solid
Analysis Batch: 359716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 359247

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	7930	6982		mg/Kg		88.0	50.2 - 150.1
Antimony	105	53.56		mg/Kg		51.0	0.1 - 201.0
Arsenic	98.5	93.30		mg/Kg		94.7	77.8 - 122.8
Barium	308	317.0		mg/Kg		102.9	82.5 - 117.5
Beryllium	66.0	63.78		mg/Kg		96.6	83.0 - 116.8
Cadmium	146	144.9		mg/Kg		99.2	82.9 - 117.8
Calcium	6610	6466		mg/Kg		97.8	83.7 - 116.2
Chromium	182	183.4		mg/Kg		100.8	79.7 - 120.3
Cobalt	162	165.4		mg/Kg		102.1	83.3 - 116.0
Copper	106	101.2		mg/Kg		95.5	81.5 - 118.9
Iron	14400	13980		mg/Kg		97.1	44.1 - 155.6
Lead	130	132.9		mg/Kg		102.3	82.3 - 117.7
Magnesium	2640	2446		mg/Kg		92.7	75.8 - 124.6
Manganese	410	421.8		mg/Kg		102.9	81.2 - 119.0
Nickel	149	155.4		mg/Kg		104.3	82.6 - 117.4
Potassium	2550	2264		mg/Kg		88.8	69.0 - 130.6
Selenium	154	147.3		mg/Kg		95.6	77.9 - 122.1
Silver	40.9	38.80		mg/Kg		94.9	75.1 - 124.7
Sodium	2480	2382		mg/Kg		96.0	70.6 - 129.0
Thallium	175	185.2		mg/Kg		105.8	78.3 - 121.1
Vanadium	96.7	92.32		mg/Kg		95.5	77.2 - 123.1
Zinc	191	189.0		mg/Kg		99.0	83.2 - 116.8

Lab Sample ID: 460-110815-1 MS
Matrix: Solid
Analysis Batch: 359716

Client Sample ID: B2
Prep Type: Total/NA
Prep Batch: 359247

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	4890		177	5757	4	mg/Kg	☼	488	75 - 125
Antimony	3.6	U	44.4	25.36	N	mg/Kg	☼	57	75 - 125
Arsenic	2.7	U	177	168.0		mg/Kg	☼	95	75 - 125
Barium	29.8	J	177	212.8		mg/Kg	☼	103	75 - 125

TestAmerica Edison

QC Sample Results

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110815-1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 460-110815-1 MS

Matrix: Solid

Analysis Batch: 359716

Client Sample ID: B2

Prep Type: Total/NA

Prep Batch: 359247

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
Beryllium	0.36	U	4.44	4.78		mg/Kg	☼	108	75 - 125
Cadmium	0.72	U	4.44	4.36		mg/Kg	☼	98	75 - 125
Calcium	1300		1770	2973		mg/Kg	☼	94	75 - 125
Chromium	6.4		17.7	26.39		mg/Kg	☼	112	75 - 125
Cobalt	4.0	J	44.4	48.38		mg/Kg	☼	100	75 - 125
Copper	5.5		22.2	28.70		mg/Kg	☼	105	75 - 125
Iron	7280		88.7	10440	4	mg/Kg	☼	3566	75 - 125
Lead	30.1		44.4	88.13	N	mg/Kg	☼	131	75 - 125
Magnesium	619	J	1770	2435		mg/Kg	☼	102	75 - 125
Manganese	282		44.4	349.4	4	mg/Kg	☼	152	75 - 125
Nickel	10.7		44.4	56.86		mg/Kg	☼	104	75 - 125
Potassium	197	J	1770	1812		mg/Kg	☼	91	75 - 125
Selenium	3.6	U	177	170.6		mg/Kg	☼	96	75 - 125
Silver	1.8	U	4.44	4.37		mg/Kg	☼	99	75 - 125
Sodium	902	U	1770	1738		mg/Kg	☼	98	75 - 125
Thallium	3.6	U	177	186.3		mg/Kg	☼	105	75 - 125
Vanadium	7.0	J	44.4	53.10		mg/Kg	☼	104	75 - 125
Zinc	31.1		44.4	77.01		mg/Kg	☼	103	75 - 125

Lab Sample ID: 460-110815-1 DU

Matrix: Solid

Analysis Batch: 359716

Client Sample ID: B2

Prep Type: Total/NA

Prep Batch: 359247

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Aluminum	4890		4778		mg/Kg	☼	2	20
Antimony	3.6	U	3.5	U	mg/Kg	☼	NC	20
Arsenic	2.7	U	2.6	U	mg/Kg	☼	NC	20
Barium	29.8	J	29.19	J	mg/Kg	☼	2	20
Beryllium	0.36	U	0.35	U	mg/Kg	☼	NC	20
Cadmium	0.72	U	0.70	U	mg/Kg	☼	NC	20
Calcium	1300		1292		mg/Kg	☼	0.4	20
Chromium	6.4		6.36		mg/Kg	☼	1	20
Cobalt	4.0	J	3.94	J	mg/Kg	☼	2	20
Copper	5.5		5.64		mg/Kg	☼	3	20
Iron	7280		7177		mg/Kg	☼	1	20
Lead	30.1		29.10		mg/Kg	☼	3	20
Magnesium	619	J	612.8	J	mg/Kg	☼	1	20
Manganese	282		281.1		mg/Kg	☼	0.3	20
Nickel	10.7		10.39		mg/Kg	☼	3	20
Potassium	197	J	188.5	J	mg/Kg	☼	4	20
Selenium	3.6	U	3.5	U	mg/Kg	☼	NC	20
Silver	1.8	U	1.8	U	mg/Kg	☼	NC	20
Sodium	902	U	880	U	mg/Kg	☼	NC	20
Thallium	3.6	U	3.5	U	mg/Kg	☼	NC	20
Vanadium	7.0	J	6.71	J	mg/Kg	☼	5	20
Zinc	31.1		30.24		mg/Kg	☼	3	20

TestAmerica Edison

Definitions/Glossary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110815-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
*	LCS or LCSD is outside acceptance limits.
J	Indicates an estimated value.
E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.

Metals

Qualifier	Qualifier Description
U	Indicates analyzed for but not detected.
J	Sample result is greater than the MDL but below the CRDL
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
N	Spiked sample recovery is not within control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110815-1

GC/MS Semi VOA

Prep Batch: 293139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-110815-1	B2	Total/NA	Solid	3546	
460-110815-2	C2	Total/NA	Solid	3546	
LCS 480-293139/2-A	Lab Control Sample	Total/NA	Solid	3546	
MB 480-293139/1-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 293176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-110815-1	B2	Total/NA	Solid	8270D	293139
460-110815-2	C2	Total/NA	Solid	8270D	293139
LCS 480-293139/2-A	Lab Control Sample	Total/NA	Solid	8270D	293139
MB 480-293139/1-A	Method Blank	Total/NA	Solid	8270D	293139

Metals

Prep Batch: 359247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-110815-1	B2	Total/NA	Solid	3050B	
460-110815-1 DU	B2	Total/NA	Solid	3050B	
460-110815-1 MS	B2	Total/NA	Solid	3050B	
460-110815-1 PDS	B2	Total/NA	Solid	3050B	
460-110815-1 SD	B2	Total/NA	Solid	3050B	
460-110815-2	C2	Total/NA	Solid	3050B	
LCSSRM 460-359247/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 460-359247/1-A ^2	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 359716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-110815-1	B2	Total/NA	Solid	6010C	359247
460-110815-1 DU	B2	Total/NA	Solid	6010C	359247
460-110815-1 MS	B2	Total/NA	Solid	6010C	359247
460-110815-1 PDS	B2	Total/NA	Solid	6010C	359247
460-110815-1 SD	B2	Total/NA	Solid	6010C	359247
460-110815-2	C2	Total/NA	Solid	6010C	359247
ICSA 460-359716/10	ICS		Solid	6010C	
ICSAB 460-359716/11	ICS		Solid	6010C	
LCSSRM 460-359247/2-A	Lab Control Sample	Total/NA	Solid	6010C	359247
MB 460-359247/1-A ^2	Method Blank	Total/NA	Solid	6010C	359247

General Chemistry

Analysis Batch: 358888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-110815-1	B2	Total/NA	Solid	Moisture	
460-110815-2	C2	Total/NA	Solid	Moisture	
460-110908-A-6 DU	Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110815-1

Client Sample ID: B2

Date Collected: 03/22/16 13:05

Date Received: 03/22/16 19:40

Lab Sample ID: 460-110815-1

Matrix: Solid

Percent Solids: 92.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			293139	03/29/16 16:12	AVW	TAL BUF
Total/NA	Analysis	8270D		5	293176	03/30/16 11:03	DMR	TAL BUF
Total/NA	Prep	3050B			359247	03/28/16 18:47	EAE	TAL EDI
Total/NA	Analysis	6010C		4	359716	03/30/16 14:26	YZH	TAL EDI
Total/NA	Analysis	Moisture		1	358888	03/26/16 12:16	VMM	TAL EDI

Client Sample ID: C2

Date Collected: 03/22/16 13:00

Date Received: 03/22/16 19:40

Lab Sample ID: 460-110815-2

Matrix: Solid

Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			293139	03/29/16 16:12	AVW	TAL BUF
Total/NA	Analysis	8270D		20	293176	03/30/16 11:30	DMR	TAL BUF
Total/NA	Prep	3050B			359247	03/28/16 18:47	EAE	TAL EDI
Total/NA	Analysis	6010C		4	359716	03/30/16 16:52	YZH	TAL EDI
Total/NA	Analysis	Moisture		1	358888	03/26/16 12:16	VMM	TAL EDI

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Certification Summary

Client: New York State D.E.C.
Project/Site: DEC Elmont546; Site: E130150

TestAmerica Job ID: 460-110815-1

Laboratory: TestAmerica Edison

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11452	03-31-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Arkansas DEQ	State Program	6	88-0686	07-06-16
California	State Program	9	1169CA	09-30-17
Connecticut	State Program	1	PH-0568	09-30-16
Florida	NELAP	4	E87672	06-30-16
Georgia	State Program	4	N/A	03-31-17
Illinois	NELAP	5	200003	09-30-16
Iowa	State Program	7	374	03-01-17
Kansas	NELAP	7	E-10187	05-31-16 *
Kentucky (DW)	State Program	4	90029	12-31-16
Kentucky (UST)	State Program	4	30	03-31-17
Kentucky (WW)	State Program	4	90029	12-31-16
Louisiana	NELAP	6	02031	06-30-16
Maine	State Program	1	NY00044	12-04-16
Maryland	State Program	3	294	03-31-17
Massachusetts	State Program	1	M-NY044	06-30-16
Michigan	State Program	5	9937	03-31-16 *
Minnesota	NELAP	5	036-999-337	12-31-16
New Hampshire	NELAP Secondary AB	1	2337	11-17-16
New Jersey	NELAP	2	NY455	06-30-16
New York	NELAP	2	10026	03-31-17
North Dakota	State Program	8	R-176	03-31-17
Oklahoma	State Program	6	9421	08-31-16
Oregon	NELAP	10	NY200003	06-09-16
Pennsylvania	NELAP	3	68-00281	07-31-16
Rhode Island	State Program	1	LAO00328	12-30-16
Tennessee	State Program	4	TN02970	03-31-17
Texas	NELAP	6	T104704412-15-6	07-31-16
USDA	Federal		P330-11-00386	11-26-17
Virginia	NELAP	3	460185	09-14-16
Washington	State Program	10	C784	02-10-17
West Virginia DEP	State Program	3	252	09-30-16
Wisconsin	State Program	5	998310390	08-31-16

* Certification renewal pending - certification considered valid.

TestAmerica Edison

8270D

Semivolatile Organic Compounds
(GC/MS)

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1
 SDG No.: _____
 Matrix: Solid Level: Low
 GC Column (1): RXI-5Sil MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
B2	460-110815-1	84	83	74	91	89	87
C2	460-110815-2	62	64	53	71	141	66
	MB 480-293139/1-A	69	79	75	91	54	99
	LCS 480-293139/2-A	61	67	65	77	72	86

	<u>QC LIMITS</u>
2FP = 2-Fluorophenol (Surr)	18-120
PHL = Phenol-d5 (Surr)	11-120
NBZ = Nitrobenzene-d5 (Surr)	34-132
FBP = 2-Fluorobiphenyl	37-120
TBP = 2,4,6-Tribromophenol (Surr)	39-146
TPH = p-Terphenyl-d14 (Surr)	65-153

Column to be used to flag recovery values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: U25864.D
 Lab ID: LCS 480-293139/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1'-Biphenyl	1620	1210	75	71-120	
1,2,4,5-Tetrachlorobenzene	1620	1200	74	59-125	
2,2'-oxybis[1-chloropropane]	1620	1020	63	44-120	
2,3,4,6-Tetrachlorophenol	1620	987	61	71-150	*
2,4,5-Trichlorophenol	1620	1000	62	59-126	
2,4,6-Trichlorophenol	1620	1090	68	59-123	
2,4-Dichlorophenol	1620	1020	63	52-120	
2,4-Dimethylphenol	1620	1120	69	36-120	
2,4-Dinitrophenol	3240	872 J	27	35-146	*
2,4-Dinitrotoluene	1620	1250	77	55-125	
2,6-Dinitrotoluene	1620	1300	80	66-128	
2-Chloronaphthalene	1620	1180	73	57-120	
2-Chlorophenol	1620	1000	62	38-120	
2-Methylnaphthalene	1620	1130	70	47-120	
2-Methylphenol	1620	1080	67	48-120	
2-Nitroaniline	1620	1190	74	61-130	
2-Nitrophenol	1620	1070	66	50-120	
3,3'-Dichlorobenzidine	3240	2330	72	48-126	
3-Nitroaniline	1620	1030	64	61-127	
4,6-Dinitro-2-methylphenol	3240	1750	54	49-155	
4-Bromophenyl phenyl ether	1620	1330	82	58-131	
4-Chloro-3-methylphenol	1620	1140	70	49-125	
4-Chloroaniline	1620	801	49	49-120	
4-Chlorophenyl phenyl ether	1620	1240	77	63-124	
4-Methylphenol	1620	1080	66	50-119	
4-Nitroaniline	1620	1160	71	63-128	
4-Nitrophenol	3240	1870	58	43-137	
Acenaphthene	1620	1210	75	53-120	
Acenaphthylene	1620	1190	74	58-121	
Acetophenone	1620	1040	64	66-120	*
Anthracene	1620	1260	78	62-129	
Atrazine	3240	2760	85	60-164	
Benzaldehyde	3240	4600	142	21-120	E *
Benzo[a]anthracene	1620	1330	82	65-133	
Benzo[a]pyrene	1620	1350	83	64-127	
Benzo[b]fluoranthene	1620	1370	85	64-135	
Benzo[g,h,i]perylene	1620	1450	89	50-152	
Benzo[k]fluoranthene	1620	1330	82	58-138	
Bis(2-chloroethoxy)methane	1620	1130	70	61-133	
Bis(2-chloroethyl)ether	1620	1050	65	45-120	
Bis(2-ethylhexyl) phthalate	1620	1400	87	61-133	
Butyl benzyl phthalate	1620	1330	82	61-129	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: U25864.D
 Lab ID: LCS 480-293139/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Caprolactam	3240	1780	55	54-133	
Carbazole	1620	1260	78	59-129	
Chrysene	1620	1330	82	64-131	
Dibenz (a,h) anthracene	1620	1360	84	54-148	
Dibenzofuran	1620	1210	75	56-120	
Diethyl phthalate	1620	1240	77	66-126	
Dimethyl phthalate	1620	1230	76	65-124	
Di-n-butyl phthalate	1620	1290	80	58-130	
Di-n-octyl phthalate	1620	1270	78	62-133	
Fluoranthene	1620	1300	80	62-131	
Fluorene	1620	1220	75	63-126	
Hexachlorobenzene	1620	1360	84	60-132	
Hexachlorobutadiene	1620	1090	67	45-120	
Hexachlorocyclopentadiene	1620	1030	64	31-120	
Hexachloroethane	1620	953	59	41-120	
Indeno[1,2,3-cd]pyrene	1620	1360	84	56-149	
Isophorone	1620	1150	71	56-120	
Naphthalene	1620	1090	67	46-120	
Nitrobenzene	1620	1110	68	49-120	
N-Nitrosodi-n-propylamine	1620	1070	66	46-120	
N-Nitrosodiphenylamine	1620	1280	79	20-119	
Pentachlorophenol	3240	1390	43	33-136	
Phenanthrene	1620	1260	78	60-130	
Phenol	1620	1050	65	36-120	
Pyrene	1620	1370	85	51-133	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1
SDG No.: _____
Lab File ID: U25863.D Lab Sample ID: MB 480-293139/1-A
Matrix: Solid Date Extracted: 03/29/2016 16:12
Instrument ID: HP5973U Date Analyzed: 03/30/2016 08:24
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-293139/2-A	U25864.D	03/30/2016 08:51
B2	460-110815-1	U25869.D	03/30/2016 11:03
C2	460-110815-2	U25870.D	03/30/2016 11:30

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

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1
SDG No.: _____
Lab File ID: U25625.D DFTPP Injection Date: 03/15/2016
Instrument ID: HP5973U DFTPP Injection Time: 11:02
Analysis Batch No.: 290883

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	43.3
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	40.6
70	Less than 2% of mass 69	0.0 (0.0) 1
127	10-80% of Base Peak	49.4
197	Less than 2% of mass 198	0.5
198	Base peak	100.0
199	5-9% of mass 198	6.7
275	10-60% of Base Peak	28.8
365	Greater than 1% of mass 198	5.0
441	present but less than 24% of mass 442	22.3 (15.1) 2
442	Greater than 50% of mass 198	147.7
443	15-24% of mass 442	28.5 (19.3) 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 480-290883/3	U25626.D	03/15/2016	11:37
	IC 480-290883/4	U25627.D	03/15/2016	12:04
	ICIS 480-290883/5	U25628.D	03/15/2016	12:31
	IC 480-290883/6	U25629.D	03/15/2016	12:57
	IC 480-290883/7	U25630.D	03/15/2016	13:24
	IC 480-290883/8	U25631.D	03/15/2016	13:51
	ICV 480-290883/9	U25632.D	03/15/2016	14:18

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

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1
 SDG No.: _____
 Lab File ID: U25856.D DFTPP Injection Date: 03/30/2016
 Instrument ID: HP5973U DFTPP Injection Time: 05:17
 Analysis Batch No.: 293176

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	41.2
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	38.7
70	Less than 2% of mass 69	0.0 (0.0) 1
127	10-80% of Base Peak	45.8
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	6.5
275	10-60% of Base Peak	30.1
365	Greater than 1% of mass 198	5.6
441	present but less than 24% of mass 442	24.8 (16.0) 2
442	Greater than 50% of mass 198	154.9
443	15-24% of mass 442	29.2 (18.8) 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 480-293176/3	U25857.D	03/30/2016	05:44
	MB 480-293139/1-A	U25863.D	03/30/2016	08:24
	LCS 480-293139/2-A	U25864.D	03/30/2016	08:51
B2	460-110815-1	U25869.D	03/30/2016	11:03
C2	460-110815-2	U25870.D	03/30/2016	11:30

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

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1
 SDG No.: _____
 Sample No.: ICIS 480-290883/5 Date Analyzed: 03/15/2016 12:31
 Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): U25628.D Heated Purge: (Y/N) N
 Calibration ID: 26677

	DCB		NPT		ANT		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	94577	7.00	378282	8.51	206539	10.57	
UPPER LIMIT	189154	7.50	756564	9.01	413078	11.07	
LOWER LIMIT	47289	6.50	189141	8.01	103270	10.07	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-290883/9		114821	7.00	449714	8.51	245593	10.57
CCVIS 480-293176/3		133486	6.99	512909	8.50	281288	10.56

DCB = 1,4-Dichlorobenzene-d4

NPT = Naphthalene-d8

ANT = Acenaphthene-d10

Area Limit = 50%-200% of internal standard area

RT Limit = \pm 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1
 SDG No.: _____
 Sample No.: ICIS 480-290883/5 Date Analyzed: 03/15/2016 12:31
 Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): U25628.D Heated Purge: (Y/N) N
 Calibration ID: 26677

	PHN		CRY		PRY		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	334923	12.08	377584	14.52	375432	16.20	
UPPER LIMIT	669846	12.58	755168	15.02	750864	16.70	
LOWER LIMIT	167462	11.58	188792	14.02	187716	15.70	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-290883/9		407394	12.08	450506	14.52	449306	16.20
CCVIS 480-293176/3		480982	12.07	624835	14.51	719375	16.18

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

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

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1
 SDG No.: _____
 Sample No.: CCVIS 480-293176/3 Date Analyzed: 03/30/2016 05:44
 Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): U25857.D Heated Purge: (Y/N) N
 Calibration ID: 26689

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		133486	6.99	512909	8.50	281288	10.56
UPPER LIMIT		266972	7.49	1025818	9.00	562576	11.06
LOWER LIMIT		66743	6.49	256455	8.00	140644	10.06
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-293139/1-A		147881	6.99	557229	8.50	288687	10.56
LCS 480-293139/2-A		142278	6.99	532669	8.50	274919	10.56
460-110815-1	B2	120971	6.99	469925	8.50	256205	10.56
460-110815-2	C2	119100	6.98	455816	8.50	248479	10.56

DCB = 1,4-Dichlorobenzene-d4
 DCB = 1,4-Dichlorobenzene-d4
 NPT = Naphthalene-d8
 NPT = Naphthalene-d8
 Area Limit = 50%-200% of internal standard area
 ANT = Acenaphthene-d10
 RT Limit = \pm 0.5 minutes of internal standard RT
 ANT = Acenaphthene-d10

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1
 SDG No.: _____
 Sample No.: CCVIS 480-293176/3 Date Analyzed: 03/30/2016 05:44
 Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): U25857.D Heated Purge: (Y/N) N
 Calibration ID: 26689

	PHN		CRY		PRY	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	480982	12.07	624835	14.51	719375	16.18
UPPER LIMIT	961964	12.57	1249670	15.01	1438750	16.68
LOWER LIMIT	240491	11.57	312418	14.01	359688	15.68
LAB SAMPLE ID	CLIENT SAMPLE ID					
MB 480-293139/1-A		451020	12.07	461311	14.51	447126 16.18
LCS 480-293139/2-A		432564	12.07	449556	14.51	428465 16.18
460-110815-1	B2	433378	12.07	532726	14.51	639181 16.18
460-110815-2	C2	416573	12.07	532917	14.51	640570 16.18

PHN = Phenanthrene-d10
 PHN = Phenanthrene-d10
 CRY = Chrysene-d12
 CRY = Chrysene-d12
 Area Limit = 50%-200% of internal standard area
 PRY = Perylene-d12
 RT Limit = ± 0.5 minutes of internal standard RT
 PRY = Perylene-d12

Column used to flag values outside QC limits

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110815-1</u>
SDG No.: _____	
Client Sample ID: <u>B2</u>	Lab Sample ID: <u>460-110815-1</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25869.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>03/22/2016 13:05</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>25.27(g)</u>	Date Analyzed: <u>03/30/2016 11:03</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>5</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>7.6</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	1100	U	1100	160
95-94-3	1,2,4,5-Tetrachlorobenzene	1100	U	1100	190
108-60-1	2,2'-oxybis[1-chloropropane]	1100	U	1100	220
58-90-2	2,3,4,6-Tetrachlorophenol	1100	U *	1100	220
95-95-4	2,4,5-Trichlorophenol	1100	U	1100	300
88-06-2	2,4,6-Trichlorophenol	1100	U	1100	220
120-83-2	2,4-Dichlorophenol	1100	U	1100	120
105-67-9	2,4-Dimethylphenol	1100	U	1100	260
51-28-5	2,4-Dinitrophenol	11000	U *	11000	5000
121-14-2	2,4-Dinitrotoluene	1100	U	1100	220
606-20-2	2,6-Dinitrotoluene	1100	U	1100	130
91-58-7	2-Chloronaphthalene	1100	U	1100	180
95-57-8	2-Chlorophenol	1100	U	1100	200
91-57-6	2-Methylnaphthalene	1100	U	1100	220
95-48-7	2-Methylphenol	1100	U	1100	130
88-74-4	2-Nitroaniline	2100	U	2100	160
88-75-5	2-Nitrophenol	1100	U	1100	310
91-94-1	3,3'-Dichlorobenzidine	2100	U	2100	1300
99-09-2	3-Nitroaniline	2100	U	2100	300
534-52-1	4,6-Dinitro-2-methylphenol	2100	U	2100	1100
101-55-3	4-Bromophenyl phenyl ether	1100	U	1100	150
59-50-7	4-Chloro-3-methylphenol	1100	U	1100	270
106-47-8	4-Chloroaniline	1100	U	1100	270
7005-72-3	4-Chlorophenyl phenyl ether	1100	U	1100	130
106-44-5	4-Methylphenol	2100	U	2100	130
100-01-6	4-Nitroaniline	2100	U	2100	570
100-02-7	4-Nitrophenol	2100	U	2100	760
83-32-9	Acenaphthene	1100	U	1100	160
208-96-8	Acenaphthylene	1100	U	1100	140
98-86-2	Acetophenone	1100	U *	1100	150
120-12-7	Anthracene	1100	U	1100	270
1912-24-9	Atrazine	1100	U	1100	380
100-52-7	Benzaldehyde	1100	U *	1100	870
56-55-3	Benzo[a]anthracene	110	J	1100	110

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110815-1</u>
SDG No.: _____	
Client Sample ID: <u>B2</u>	Lab Sample ID: <u>460-110815-1</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25869.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>03/22/2016 13:05</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>25.27(g)</u>	Date Analyzed: <u>03/30/2016 11:03</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>5</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>7.6</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	1100	U	1100	160
205-99-2	Benzo[b]fluoranthene	1100	U	1100	170
191-24-2	Benzo[g,h,i]perylene	430	J	1100	120
207-08-9	Benzo[k]fluoranthene	1100	U	1100	140
111-91-1	Bis(2-chloroethoxy)methane	1100	U	1100	230
111-44-4	Bis(2-chloroethyl)ether	1100	U	1100	140
117-81-7	Bis(2-ethylhexyl) phthalate	1100	U	1100	370
85-68-7	Butyl benzyl phthalate	1100	U	1100	180
105-60-2	Caprolactam	1100	U	1100	330
86-74-8	Carbazole	1100	U	1100	130
218-01-9	Chrysene	1100	U	1100	240
53-70-3	Dibenz(a,h)anthracene	1100	U	1100	190
132-64-9	Dibenzofuran	1100	U	1100	130
84-66-2	Diethyl phthalate	1100	U	1100	140
131-11-3	Dimethyl phthalate	1100	U	1100	130
84-74-2	Di-n-butyl phthalate	1100	U	1100	190
117-84-0	Di-n-octyl phthalate	1100	U	1100	130
206-44-0	Fluoranthene	160	J	1100	120
86-73-7	Fluorene	1100	U	1100	130
118-74-1	Hexachlorobenzene	1100	U	1100	150
87-68-3	Hexachlorobutadiene	1100	U	1100	160
77-47-4	Hexachlorocyclopentadiene	1100	U	1100	150
67-72-1	Hexachloroethane	1100	U	1100	140
193-39-5	Indeno[1,2,3-cd]pyrene	450	J	1100	130
78-59-1	Isophorone	1100	U	1100	230
91-20-3	Naphthalene	1100	U	1100	140
98-95-3	Nitrobenzene	1100	U	1100	120
621-64-7	N-Nitrosodi-n-propylamine	1100	U	1100	190
86-30-6	N-Nitrosodiphenylamine	1100	U	1100	890
87-86-5	Pentachlorophenol	2100	U	2100	1100
85-01-8	Phenanthrene	1100	U	1100	160
108-95-2	Phenol	1100	U	1100	170
129-00-0	Pyrene	1100	U	1100	130

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110815-1</u>
SDG No.: _____	
Client Sample ID: <u>B2</u>	Lab Sample ID: <u>460-110815-1</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25869.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>03/22/2016 13:05</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>25.27(g)</u>	Date Analyzed: <u>03/30/2016 11:03</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>5</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>7.6</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	89		39-146
321-60-8	2-Fluorobiphenyl	91		37-120
367-12-4	2-Fluorophenol (Surr)	84		18-120
4165-60-0	Nitrobenzene-d5 (Surr)	74		34-132
4165-62-2	Phenol-d5 (Surr)	83		11-120
1718-51-0	p-Terphenyl-d14 (Surr)	87		65-153

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25869.D
 Lims ID: 460-110815-B-1-D Lab Sample ID: 480-110815-1
 Client ID: B2
 Sample Type: Client
 Inject. Date: 30-Mar-2016 11:03:30 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 5.0000
 Sample Info: 480-0051640-015
 Misc. Info.: 480-97201-A-1-A
 Operator ID: CAS Instrument ID: HP5973U
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 30-Mar-2016 13:44:50 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: richardsd

Date: 30-Mar-2016 13:38:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.985	6.980	0.005	96	120971	40.0	
* 2 Naphthalene-d8	136	8.497	8.497	0.000	100	469925	40.0	
* 3 Acenaphthene-d10	164	10.559	10.559	0.000	98	256205	40.0	
* 4 Phenanthrene-d10	188	12.071	12.071	0.000	98	433378	40.0	
* 5 Chrysene-d12	240	14.507	14.507	0.000	97	532726	40.0	
* 6 Perylene-d12	264	16.179	16.179	0.000	97	639181	40.0	
\$ 9 2-Fluorophenol	112	5.409	5.404	0.005	95	28145	6.73	
\$ 10 Phenol-d5	99	6.505	6.505	0.000	88	33828	6.64	
\$ 11 Nitrobenzene-d5	82	7.626	7.627	-0.001	96	27594	5.90	
\$ 12 2-Fluorobiphenyl	172	9.763	9.763	0.000	100	62427	7.31	
\$ 13 2,4,6-Tribromophenol	330	11.387	11.388	-0.001	91	8714	7.15	
\$ 14 p-Terphenyl-d14	244	13.492	13.498	-0.006	99	81553	6.96	
88 Benzaldehyde	77		6.457				ND	
89 Phenol	94		6.521				ND	
91 Bis(2-chloroethyl)ether	93		6.628				ND	
93 2-Chlorophenol	128		6.740				ND	
98 2-Methylphenol	108		7.242				ND	
99 2,2'-oxybis[1-chloropropan	45		7.274				ND	
102 4-Methylphenol	108		7.413				ND	
101 N-Nitrosodi-n-propylamine	70		7.424				ND	
104 Acetophenone	105		7.440				ND	
106 Hexachloroethane	117		7.600				ND	
107 Nitrobenzene	77		7.648				ND	
110 Isophorone	82		7.920				ND	
111 2-Nitrophenol	139		8.033				ND	
112 2,4-Dimethylphenol	107		8.049				ND	
115 Bis(2-chloroethoxy)methane	93		8.155				ND	
117 2,4-Dichlorophenol	162		8.316				ND	
121 Naphthalene	128		8.524				ND	
123 4-Chloroaniline	127		8.561				ND	
126 Hexachlorobutadiene	225		8.668				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
127 Caprolactam	113		8.941				ND	
131 4-Chloro-3-methylphenol	107		9.122				ND	
133 2-Methylnaphthalene	142		9.347				ND	
136 Hexachlorocyclopentadiene	237		9.544				ND	
138 1,2,4,5-Tetrachlorobenzene	216		9.550				ND	
139 2,4,6-Trichlorophenol	196		9.673				ND	
140 2,4,5-Trichlorophenol	196		9.721				ND	
144 1,1'-Biphenyl	154		9.886				ND	
143 2-Chloronaphthalene	162		9.929				ND	
145 2-Nitroaniline	65		10.020				ND	
147 Dimethyl phthalate	163		10.207				ND	
148 2,6-Dinitrotoluene	165		10.282				ND	
149 Acenaphthylene	152		10.405				ND	
150 3-Nitroaniline	138		10.479				ND	
152 2,4-Dinitrophenol	184		10.592				ND	
151 Acenaphthene	153		10.592				ND	
153 4-Nitrophenol	109		10.645				ND	
154 2,4-Dinitrotoluene	165		10.730				ND	
155 Dibenzofuran	168		10.778				ND	
158 2,3,4,6-Tetrachlorophenol	232		10.901				ND	
160 Diethyl phthalate	149		10.965				ND	
162 4-Chlorophenyl phenyl ethe	204		11.115				ND	
164 4-Nitroaniline	138		11.131				ND	
161 Fluorene	166		11.136				ND	
166 4,6-Dinitro-2-methylphenol	198		11.163				ND	
167 N-Nitrosodiphenylamine	169		11.233				ND	
176 4-Bromophenyl phenyl ether	248		11.612				ND	
177 Hexachlorobenzene	284		11.708				ND	
180 Atrazine	200		11.735				ND	
181 Pentachlorophenol	266		11.890				ND	
185 Phenanthrene	178	12.098	12.098	0.000	92	3642	0.3012	
188 Anthracene	178		12.146				ND	
189 Carbazole	167		12.280				ND	
192 Di-n-butyl phthalate	149		12.541				ND	
197 Fluoranthene	202	13.193	13.193	0.000	94	9746	0.7448	
199 Pyrene	202		13.407				ND	
205 Butyl benzyl phthalate	149		13.893				ND	
210 Bis(2-ethylhexyl) phthalat	149		14.379				ND	
208 3,3'-Dichlorobenzidine	252		14.427				ND	
209 Benzo[a]anthracene	228	14.497	14.497	0.000	95	7665	0.5033	
211 Chrysene	228	14.534	14.534	0.000	96	5901	0.4002	
212 Di-n-octyl phthalate	149		15.004				ND	
213 Benzo[b]fluoranthene	252	15.677	15.672	0.005	95	8047	0.4301	M
214 Benzo[k]fluoranthene	252	15.683	15.704	-0.021	95	6261	0.3260	M
217 Benzo[a]pyrene	252	16.105	16.110	-0.005	94	6950	0.3967	
220 Dibenz(a,h)anthracene	278		17.873				ND	
219 Indeno[1,2,3-cd]pyrene	276	17.868	17.884	-0.016	91	6143	2.10	
221 Benzo[g,h,i]perylene	276	18.391	18.407	-0.016	95	5941	2.01	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25869.D

Injection Date: 30-Mar-2016 11:03:30

Instrument ID: HP5973U

Operator ID: CAS

Lims ID: 460-110815-B-1-D

Lab Sample ID: 480-110815-1

Worklist Smp#: 15

Client ID: B2

Injection Vol: 1.0 ul

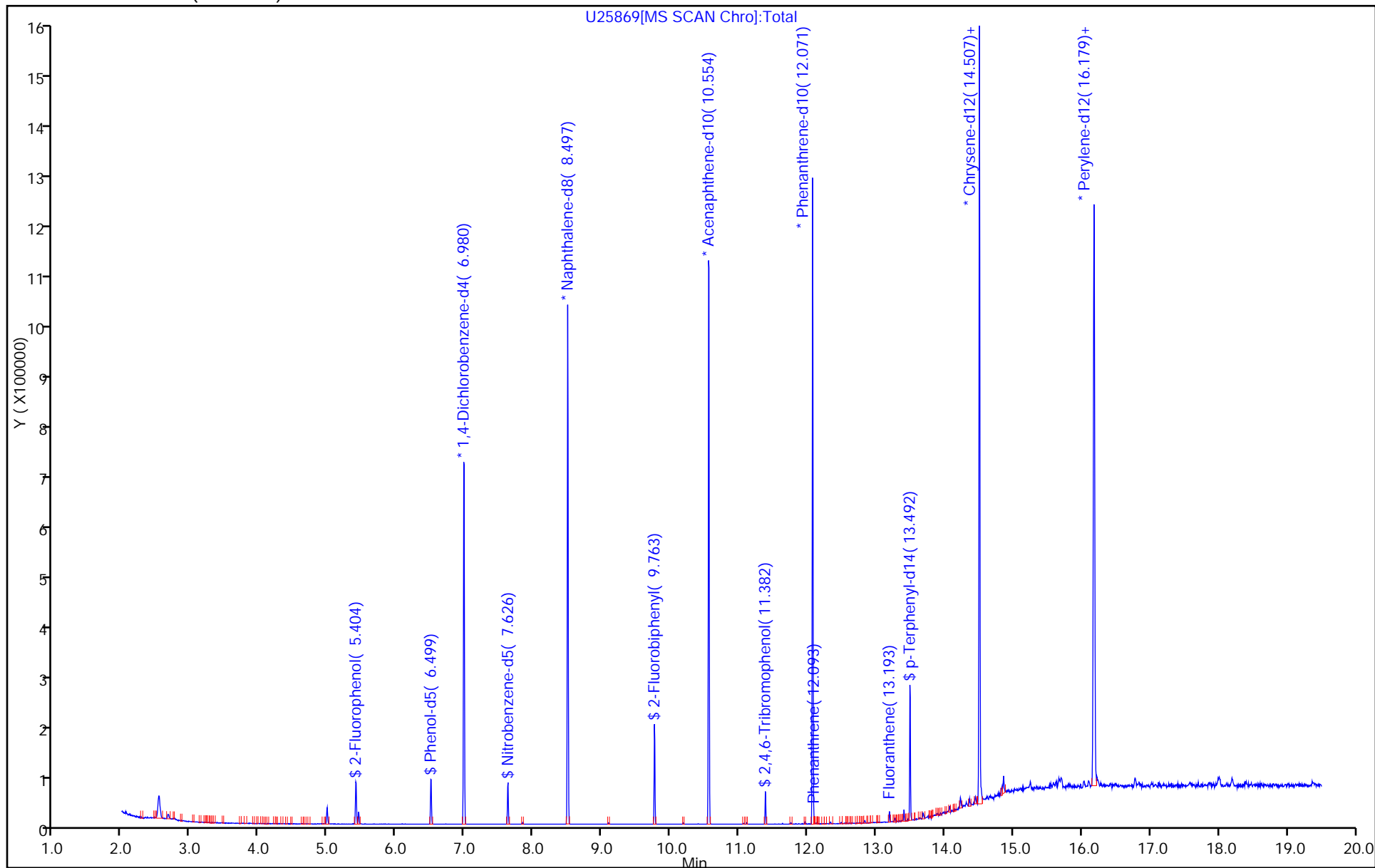
Dil. Factor: 5.0000

ALS Bottle#: 15

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25869.D

Injection Date: 30-Mar-2016 11:03:30

Instrument ID: HP5973U

Lims ID: 460-110815-B-1-D

Lab Sample ID: 480-110815-1

Client ID: B2

Operator ID: CAS

ALS Bottle#: 15

Worklist Smp#: 15

Injection Vol: 1.0 ul

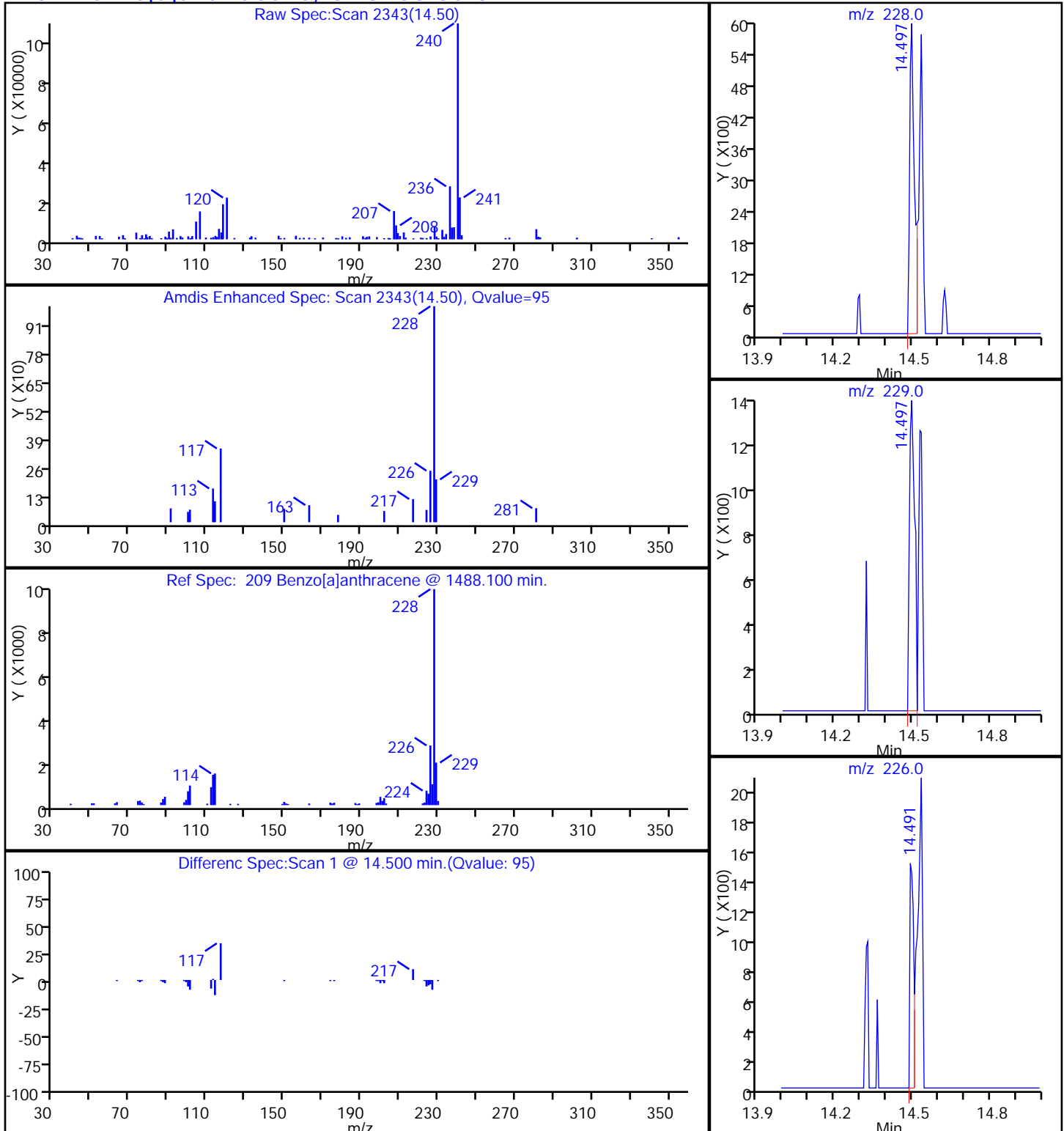
Dil. Factor: 5.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

209 Benzo[a]anthracene, CAS: 56-55-3

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25869.D

Injection Date: 30-Mar-2016 11:03:30

Instrument ID: HP5973U

Lims ID: 460-110815-B-1-D

Lab Sample ID: 480-110815-1

Client ID: B2

Operator ID: CAS

ALS Bottle#: 15

Worklist Smp#: 15

Injection Vol: 1.0 ul

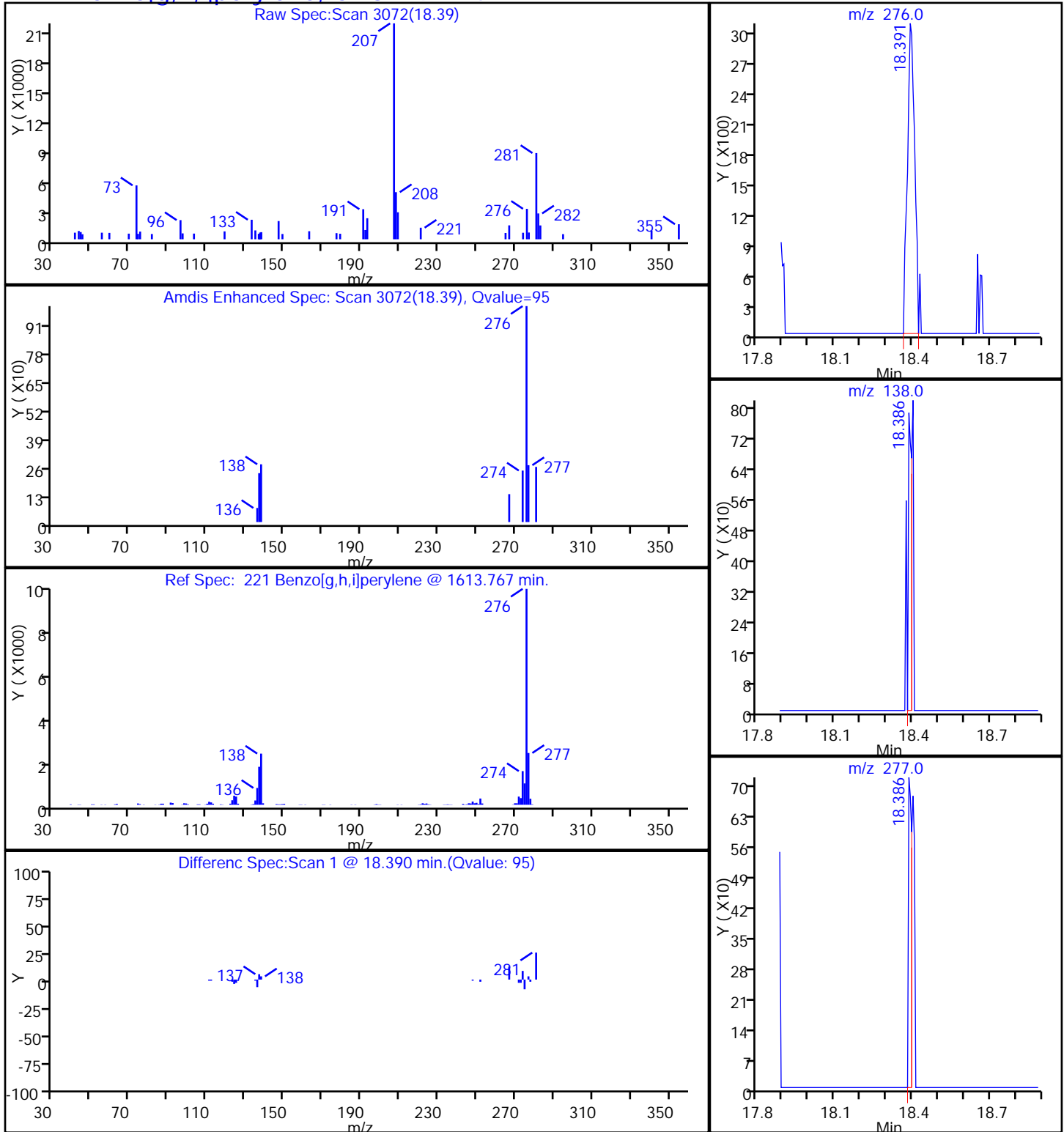
Dil. Factor: 5.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

221 Benzo[g,h,i]perylene, CAS: 191-24-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25869.D

Injection Date: 30-Mar-2016 11:03:30

Instrument ID: HP5973U

Lims ID: 460-110815-B-1-D

Lab Sample ID: 480-110815-1

Client ID: B2

Operator ID: CAS

ALS Bottle#: 15

Worklist Smp#: 15

Injection Vol: 1.0 ul

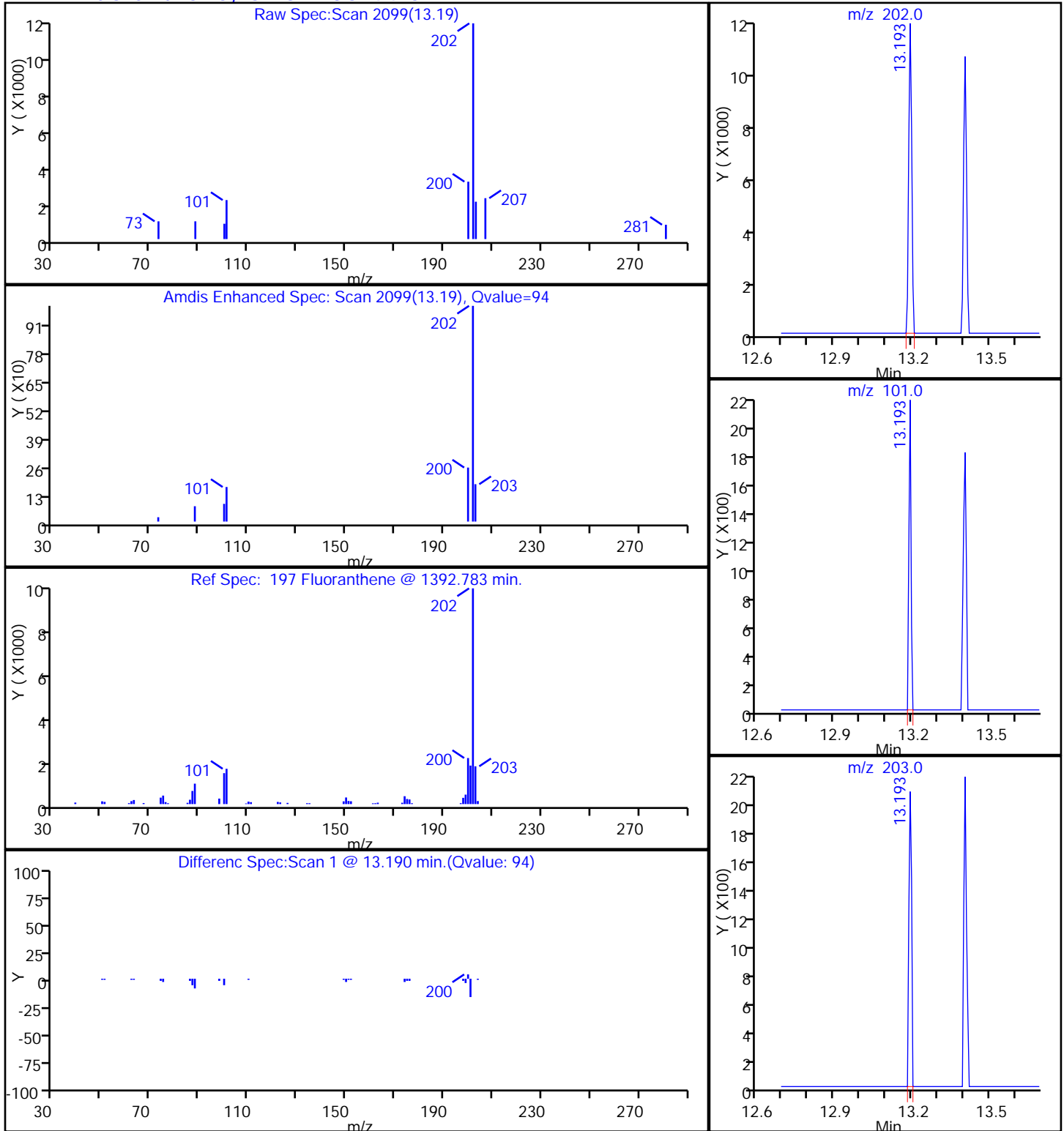
Dil. Factor: 5.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

197 Fluoranthene, CAS: 206-44-0

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25869.D

Injection Date: 30-Mar-2016 11:03:30

Instrument ID: HP5973U

Lims ID: 460-110815-B-1-D

Lab Sample ID: 480-110815-1

Client ID: B2

Operator ID: CAS

ALS Bottle#: 15

Worklist Smp#: 15

Injection Vol: 1.0 ul

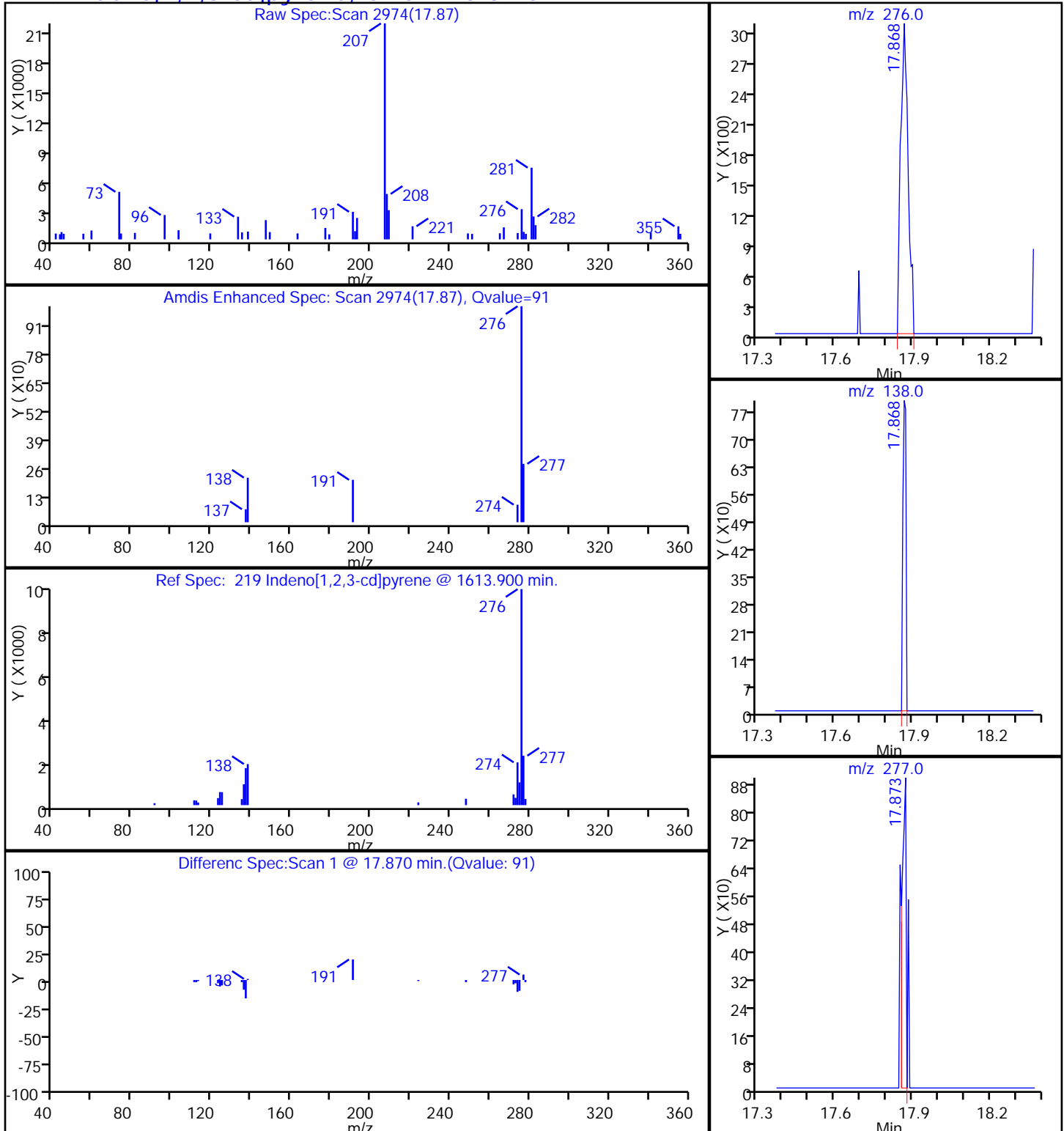
Dil. Factor: 5.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

219 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25869.D

Injection Date: 30-Mar-2016 11:03:30

Instrument ID: HP5973U

Lims ID: 460-110815-B-1-D

Lab Sample ID: 480-110815-1

Client ID: B2

Operator ID: CAS

ALS Bottle#:

15

Worklist Smp#: 15

Injection Vol: 1.0 ul

Dil. Factor: 5.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

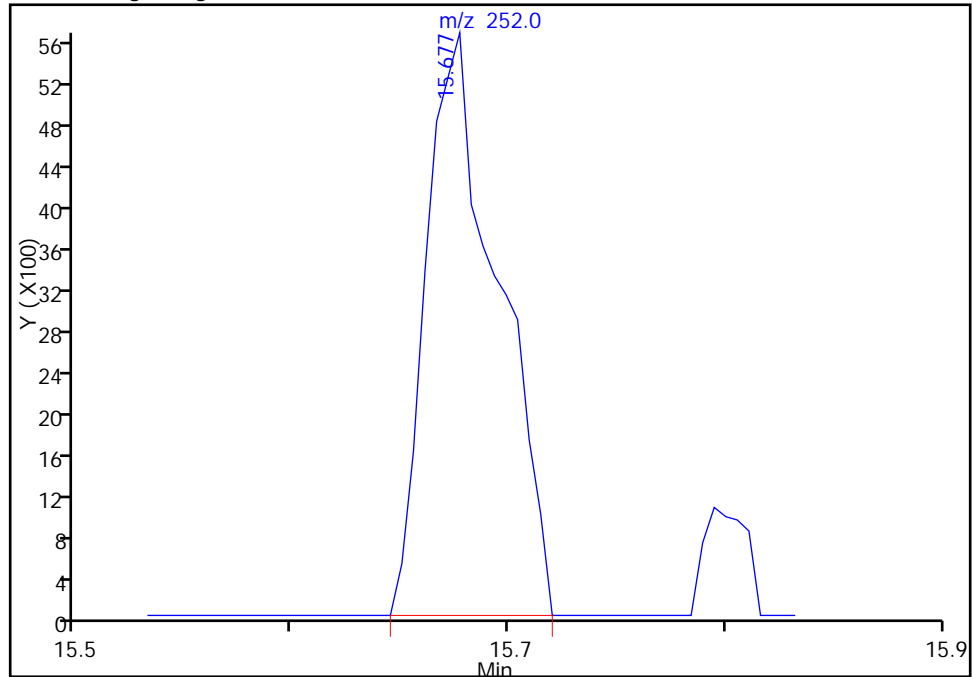
Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

213 Benzo[b]fluoranthene, CAS: 205-99-2

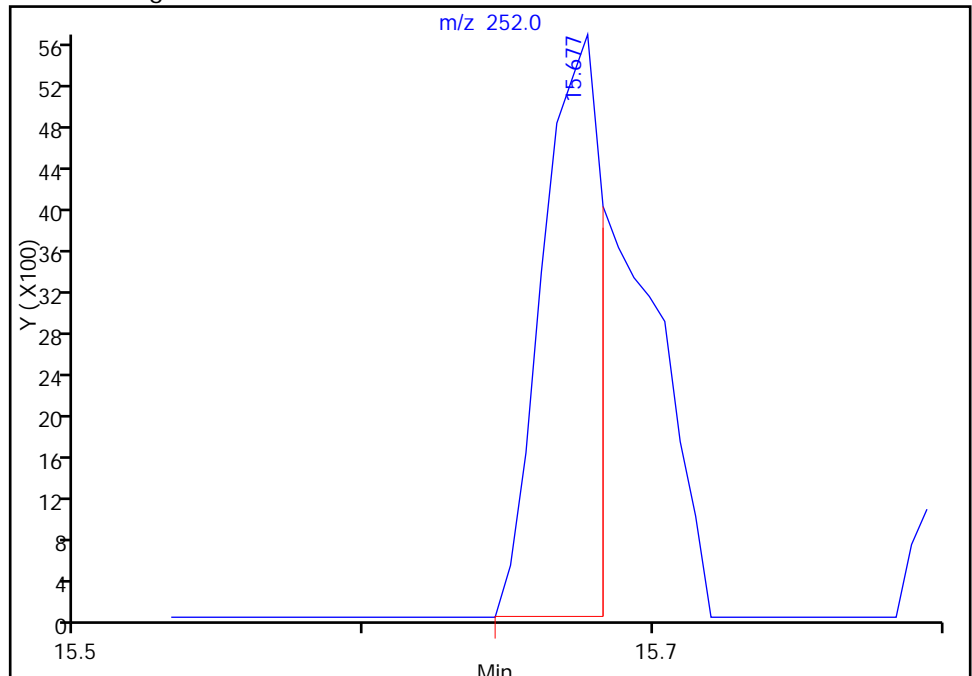
RT: 15.68
Area: 13067
Amount: 0.698399
Amount Units: ng/uL

Processing Integration Results



RT: 15.68
Area: 8047
Amount: 0.430092
Amount Units: ng/uL

Manual Integration Results



Reviewer: richardsd, 30-Mar-2016 13:38:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25869.D

Injection Date: 30-Mar-2016 11:03:30

Instrument ID: HP5973U

Lims ID: 460-110815-B-1-D

Lab Sample ID: 480-110815-1

Client ID: B2

Operator ID: CAS

ALS Bottle#: 15

Worklist Smp#: 15

Injection Vol: 1.0 ul

Dil. Factor: 5.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

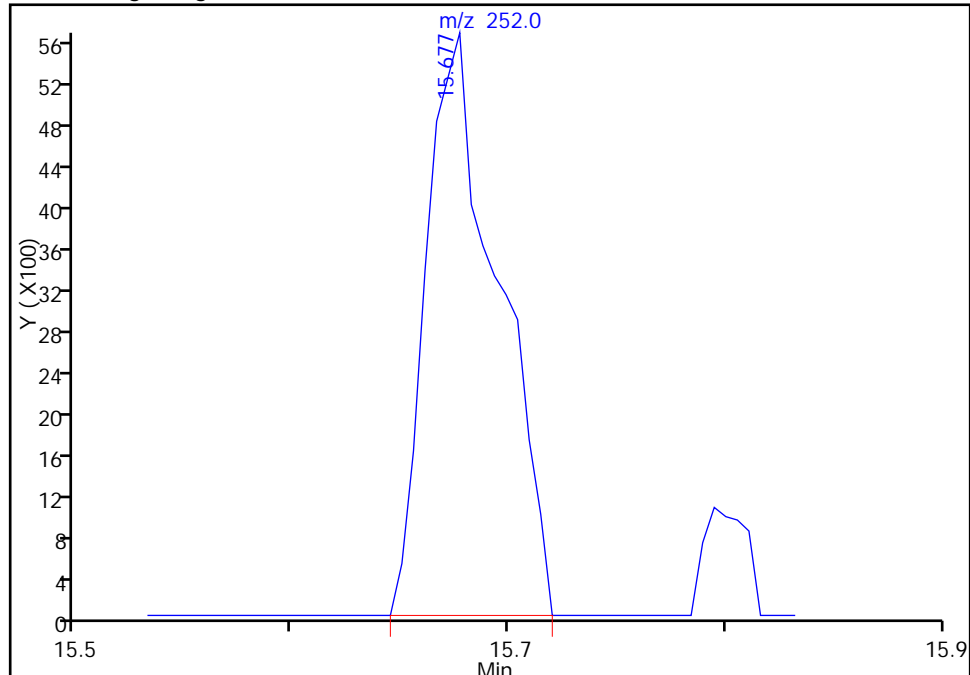
Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

214 Benzo[k]fluoranthene, CAS: 207-08-9

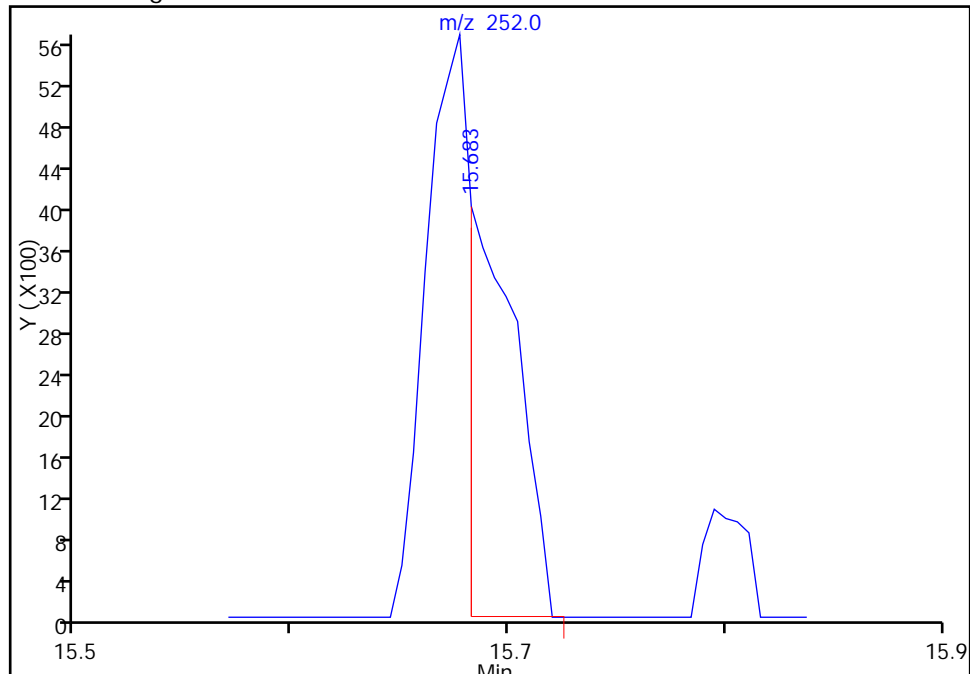
RT: 15.68
Area: 13067
Amount: 0.680443
Amount Units: ng/uL

Processing Integration Results



RT: 15.68
Area: 6261
Amount: 0.326032
Amount Units: ng/uL

Manual Integration Results



Reviewer: richardsd, 30-Mar-2016 13:38:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110815-1</u>
SDG No.: _____	
Client Sample ID: <u>C2</u>	Lab Sample ID: <u>460-110815-2</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25870.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>03/22/2016 13:00</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>30.59(g)</u>	Date Analyzed: <u>03/30/2016 11:30</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>20</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>8.8</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	3700	U	3700	540
95-94-3	1,2,4,5-Tetrachlorobenzene	3700	U	3700	620
108-60-1	2,2'-oxybis[1-chloropropane]	3700	U	3700	730
58-90-2	2,3,4,6-Tetrachlorophenol	3700	U *	3700	750
95-95-4	2,4,5-Trichlorophenol	3700	U	3700	990
88-06-2	2,4,6-Trichlorophenol	3700	U	3700	730
120-83-2	2,4-Dichlorophenol	3700	U	3700	390
105-67-9	2,4-Dimethylphenol	3700	U	3700	880
51-28-5	2,4-Dinitrophenol	36000	U *	36000	17000
121-14-2	2,4-Dinitrotoluene	3700	U	3700	750
606-20-2	2,6-Dinitrotoluene	3700	U	3700	430
91-58-7	2-Chloronaphthalene	3700	U	3700	600
95-57-8	2-Chlorophenol	3700	U	3700	670
91-57-6	2-Methylnaphthalene	3700	U	3700	730
95-48-7	2-Methylphenol	3700	U	3700	430
88-74-4	2-Nitroaniline	7100	U	7100	540
88-75-5	2-Nitrophenol	3700	U	3700	1000
91-94-1	3,3'-Dichlorobenzidine	7100	U	7100	4300
99-09-2	3-Nitroaniline	7100	U	7100	1000
534-52-1	4,6-Dinitro-2-methylphenol	7100	U	7100	3700
101-55-3	4-Bromophenyl phenyl ether	3700	U	3700	520
59-50-7	4-Chloro-3-methylphenol	3700	U	3700	900
106-47-8	4-Chloroaniline	3700	U	3700	900
7005-72-3	4-Chlorophenyl phenyl ether	3700	U	3700	450
106-44-5	4-Methylphenol	7100	U	7100	430
100-01-6	4-Nitroaniline	7100	U	7100	1900
100-02-7	4-Nitrophenol	7100	U	7100	2600
83-32-9	Acenaphthene	3700	U	3700	540
208-96-8	Acenaphthylene	3700	U	3700	470
98-86-2	Acetophenone	3700	U *	3700	490
120-12-7	Anthracene	3700	U	3700	900
1912-24-9	Atrazine	3700	U	3700	1300
100-52-7	Benzaldehyde	3700	U *	3700	2900
56-55-3	Benzo[a]anthracene	610	J	3700	370

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110815-1</u>
SDG No.: _____	
Client Sample ID: <u>C2</u>	Lab Sample ID: <u>460-110815-2</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25870.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>03/22/2016 13:00</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>30.59(g)</u>	Date Analyzed: <u>03/30/2016 11:30</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>20</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>8.8</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	540	J	3700	540
205-99-2	Benzo[b]fluoranthene	720	J	3700	580
191-24-2	Benzo[g,h,i]perylene	1600	J	3700	390
207-08-9	Benzo[k]fluoranthene	3700	U	3700	470
111-91-1	Bis(2-chloroethoxy)methane	3700	U	3700	770
111-44-4	Bis(2-chloroethyl)ether	3700	U	3700	470
117-81-7	Bis(2-ethylhexyl) phthalate	3700	U	3700	1200
85-68-7	Butyl benzyl phthalate	3700	U	3700	600
105-60-2	Caprolactam	3700	U	3700	1100
86-74-8	Carbazole	3700	U	3700	430
218-01-9	Chrysene	3700	U	3700	820
53-70-3	Dibenz(a,h)anthracene	3700	U	3700	650
132-64-9	Dibenzofuran	3700	U	3700	430
84-66-2	Diethyl phthalate	3700	U	3700	470
131-11-3	Dimethyl phthalate	3700	U	3700	430
84-74-2	Di-n-butyl phthalate	3700	U	3700	620
117-84-0	Di-n-octyl phthalate	3700	U	3700	430
206-44-0	Fluoranthene	1100	J	3700	390
86-73-7	Fluorene	3700	U	3700	430
118-74-1	Hexachlorobenzene	3700	U	3700	490
87-68-3	Hexachlorobutadiene	3700	U	3700	540
77-47-4	Hexachlorocyclopentadiene	3700	U	3700	490
67-72-1	Hexachloroethane	3700	U	3700	470
193-39-5	Indeno[1,2,3-cd]pyrene	1600	J	3700	450
78-59-1	Isophorone	3700	U	3700	770
91-20-3	Naphthalene	3700	U	3700	470
98-95-3	Nitrobenzene	3700	U	3700	410
621-64-7	N-Nitrosodi-n-propylamine	3700	U	3700	620
86-30-6	N-Nitrosodiphenylamine	3700	U	3700	3000
87-86-5	Pentachlorophenol	7100	U	7100	3700
85-01-8	Phenanthrene	3700	U	3700	540
108-95-2	Phenol	3700	U	3700	560
129-00-0	Pyrene	860	J	3700	430

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110815-1</u>
SDG No.: _____	
Client Sample ID: <u>C2</u>	Lab Sample ID: <u>460-110815-2</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25870.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>03/22/2016 13:00</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>30.59(g)</u>	Date Analyzed: <u>03/30/2016 11:30</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>20</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: <u>8.8</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	141		39-146
321-60-8	2-Fluorobiphenyl	71		37-120
367-12-4	2-Fluorophenol (Surr)	62		18-120
4165-60-0	Nitrobenzene-d5 (Surr)	53		34-132
4165-62-2	Phenol-d5 (Surr)	64		11-120
1718-51-0	p-Terphenyl-d14 (Surr)	66		65-153

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25870.D
 Lims ID: 460-110815-B-2-B Lab Sample ID: 480-110815-2
 Client ID: C2
 Sample Type: Client
 Inject. Date: 30-Mar-2016 11:30:30 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 20.0000
 Sample Info: 480-0051640-016
 Misc. Info.: 480-97201-A-1-A
 Operator ID: CAS Instrument ID: HP5973U
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 30-Mar-2016 13:44:50 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: richardsd

Date: 30-Mar-2016 13:44:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.980	6.980	0.000	96	119100	40.0	
* 2 Naphthalene-d8	136	8.497	8.497	0.000	100	455816	40.0	
* 3 Acenaphthene-d10	164	10.560	10.559	0.001	97	248479	40.0	
* 4 Phenanthrene-d10	188	12.071	12.071	0.000	98	416573	40.0	
* 5 Chrysene-d12	240	14.507	14.507	0.000	97	532917	40.0	
* 6 Perylene-d12	264	16.180	16.179	0.001	97	640570	40.0	
\$ 9 2-Fluorophenol	112	5.404	5.404	0.000	90	5093	1.24	
\$ 10 Phenol-d5	99	6.499	6.505	-0.006	85	6434	1.28	
\$ 11 Nitrobenzene-d5	82	7.621	7.627	-0.006	94	4805	1.06	
\$ 12 2-Fluorobiphenyl	172	9.764	9.763	0.001	97	11785	1.42	
\$ 13 2,4,6-Tribromophenol	330	11.388	11.388	0.000	1	1261	2.82	
\$ 14 p-Terphenyl-d14	244	13.498	13.498	0.000	29	15530	1.32	
88 Benzaldehyde	77		6.457				ND	
89 Phenol	94		6.521				ND	
91 Bis(2-chloroethyl)ether	93		6.628				ND	
93 2-Chlorophenol	128		6.740				ND	
98 2-Methylphenol	108		7.242				ND	
99 2,2'-oxybis[1-chloropropan	45		7.274				ND	
102 4-Methylphenol	108		7.413				ND	
101 N-Nitrosodi-n-propylamine	70		7.424				ND	
104 Acetophenone	105		7.440				ND	
106 Hexachloroethane	117		7.600				ND	
107 Nitrobenzene	77		7.648				ND	
110 Isophorone	82		7.920				ND	
111 2-Nitrophenol	139		8.033				ND	
112 2,4-Dimethylphenol	107		8.049				ND	
115 Bis(2-chloroethoxy)methane	93		8.155				ND	
117 2,4-Dichlorophenol	162		8.316				ND	
121 Naphthalene	128		8.524				ND	
123 4-Chloroaniline	127		8.561				ND	
126 Hexachlorobutadiene	225		8.668				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/uL	Flags
127 Caprolactam	113		8.941				ND	
131 4-Chloro-3-methylphenol	107		9.122				ND	
133 2-Methylnaphthalene	142		9.347				ND	
136 Hexachlorocyclopentadiene	237		9.544				ND	
138 1,2,4,5-Tetrachlorobenzene	216		9.550				ND	
139 2,4,6-Trichlorophenol	196		9.673				ND	
140 2,4,5-Trichlorophenol	196		9.721				ND	
144 1,1'-Biphenyl	154		9.886				ND	
143 2-Chloronaphthalene	162		9.929				ND	
145 2-Nitroaniline	65		10.020				ND	
147 Dimethyl phthalate	163		10.207				ND	
148 2,6-Dinitrotoluene	165		10.282				ND	
149 Acenaphthylene	152		10.405				ND	
150 3-Nitroaniline	138		10.479				ND	
152 2,4-Dinitrophenol	184		10.592				ND	
151 Acenaphthene	153		10.592				ND	
153 4-Nitrophenol	109		10.645				ND	
154 2,4-Dinitrotoluene	165		10.730				ND	
155 Dibenzofuran	168		10.778				ND	
158 2,3,4,6-Tetrachlorophenol	232		10.901				ND	
160 Diethyl phthalate	149		10.965				ND	
162 4-Chlorophenyl phenyl ethe	204		11.115				ND	
164 4-Nitroaniline	138		11.131				ND	
161 Fluorene	166		11.136				ND	
166 4,6-Dinitro-2-methylphenol	198		11.163				ND	
167 N-Nitrosodiphenylamine	169		11.233				ND	
176 4-Bromophenyl phenyl ether	248		11.612				ND	
177 Hexachlorobenzene	284		11.708				ND	
180 Atrazine	200		11.735				ND	
181 Pentachlorophenol	266		11.890				ND	
185 Phenanthrene	178	12.098	12.098	0.000	93	8456	0.7276	
188 Anthracene	178	12.146	12.146	0.000	1	2110	0.1765	
189 Carbazole	167		12.280				ND	
192 Di-n-butyl phthalate	149		12.541				ND	
197 Fluoranthene	202	13.193	13.193	0.000	96	18824	1.50	
199 Pyrene	202	13.407	13.407	0.000	94	17851	1.20	
205 Butyl benzyl phthalate	149		13.893				ND	
210 Bis(2-ethylhexyl) phthalat	149		14.379				ND	
208 3,3'-Dichlorobenzidine	252		14.427				ND	
209 Benzo[a]anthracene	228	14.497	14.497	0.000	96	12964	0.8510	
211 Chrysene	228	14.534	14.534	0.000	96	12386	0.8398	
212 Di-n-octyl phthalate	149		15.004				ND	
213 Benzo[b]fluoranthene	252	15.672	15.672	0.000	97	18915	1.01	M
214 Benzo[k]fluoranthene	252	15.699	15.704	-0.005	97	7013	0.3644	M
217 Benzo[a]pyrene	252	16.105	16.110	-0.005	96	13316	0.7584	
220 Dibenz(a,h)anthracene	278		17.873				ND	
219 Indeno[1,2,3-cd]pyrene	276	17.868	17.884	-0.016	97	10799	2.29	
221 Benzo[g,h,i]perylene	276	18.397	18.407	-0.010	95	11008	2.27	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25870.D

Injection Date: 30-Mar-2016 11:30:30

Instrument ID: HP5973U

Operator ID: CAS

Lims ID: 460-110815-B-2-B

Lab Sample ID: 480-110815-2

Worklist Smp#: 16

Client ID: C2

Injection Vol: 1.0 ul

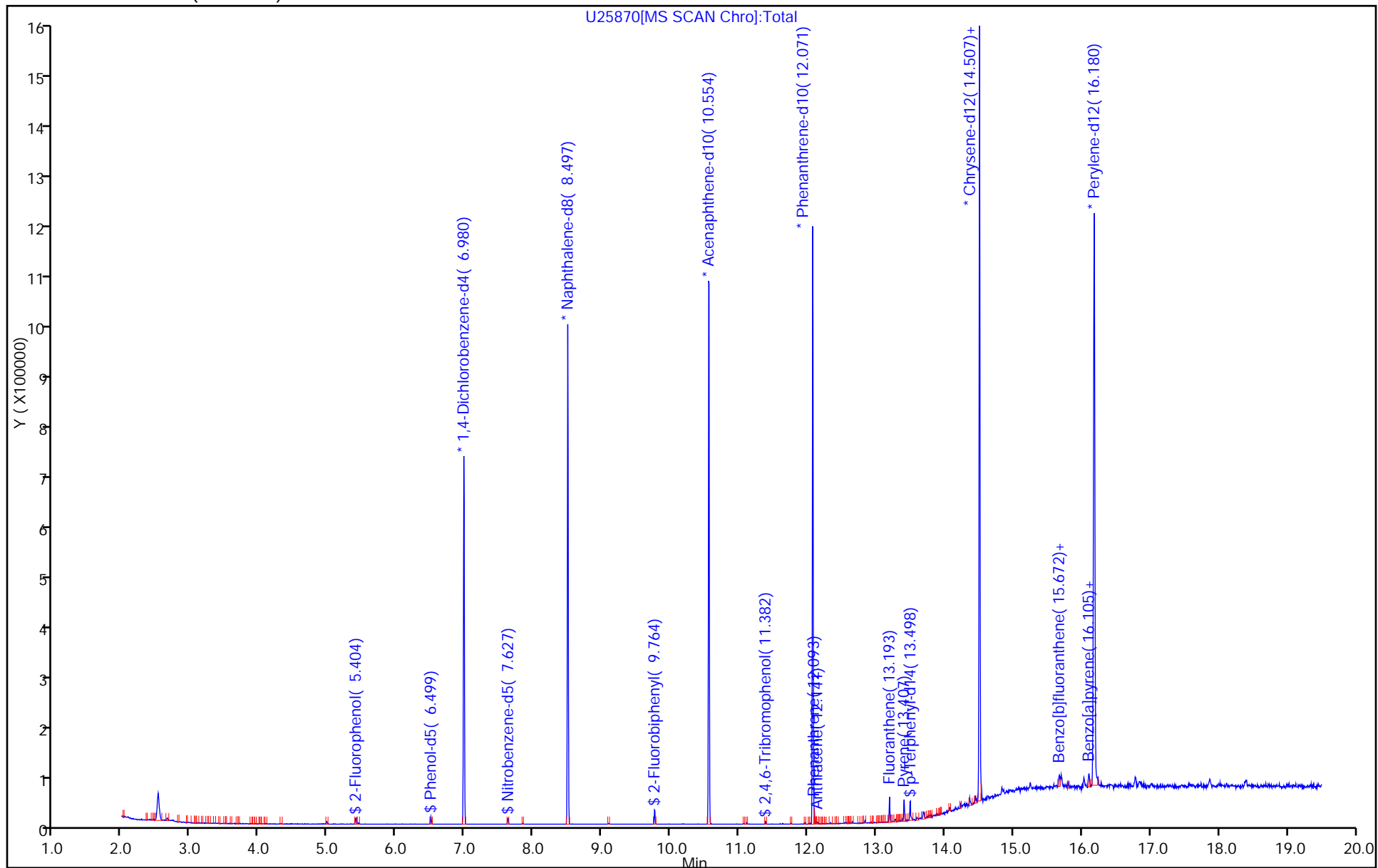
Dil. Factor: 20.0000

ALS Bottle#: 16

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25870.D

Injection Date: 30-Mar-2016 11:30:30

Instrument ID: HP5973U

Lims ID: 460-110815-B-2-B

Lab Sample ID: 480-110815-2

Client ID: C2

Operator ID: CAS

ALS Bottle#: 16

Worklist Smp#: 16

Injection Vol: 1.0 ul

Dil. Factor: 20.0000

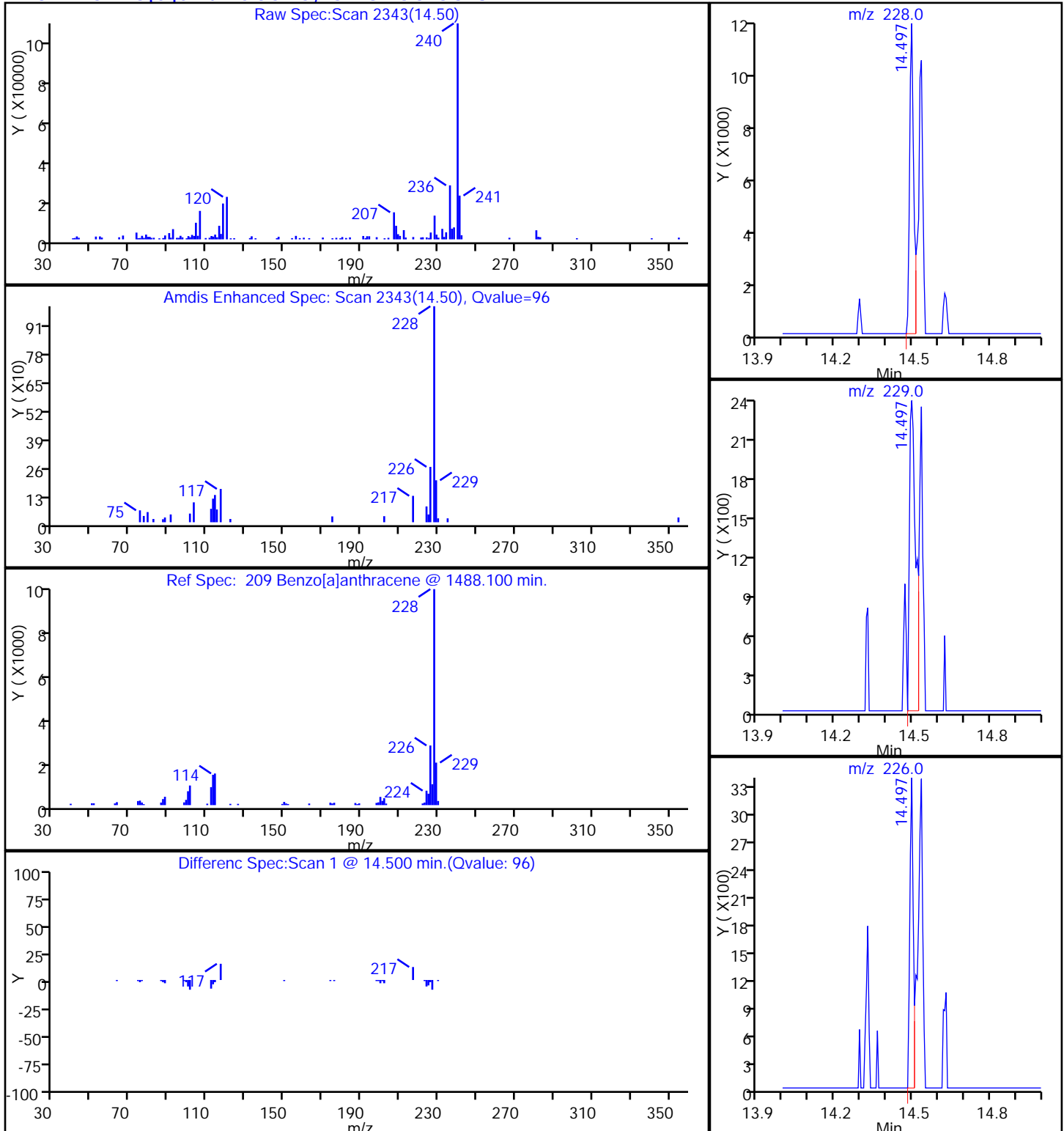
Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

209 Benzo[a]anthracene, CAS: 56-55-3



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25870.D

Injection Date: 30-Mar-2016 11:30:30

Instrument ID: HP5973U

Lims ID: 460-110815-B-2-B

Lab Sample ID: 480-110815-2

Client ID: C2

Operator ID: CAS

ALS Bottle#: 16

Worklist Smp#: 16

Injection Vol: 1.0 ul

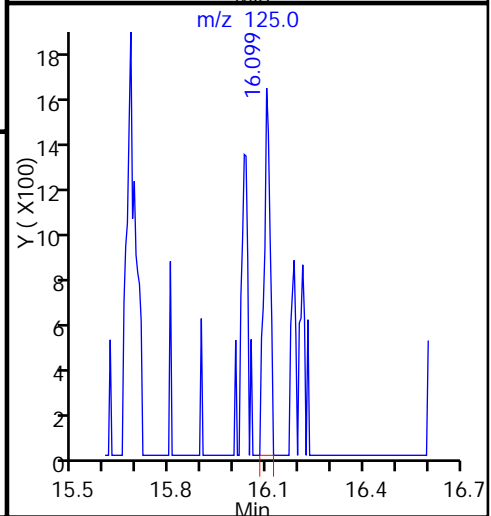
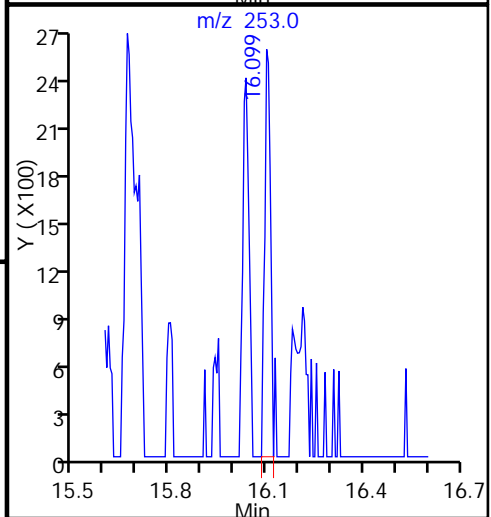
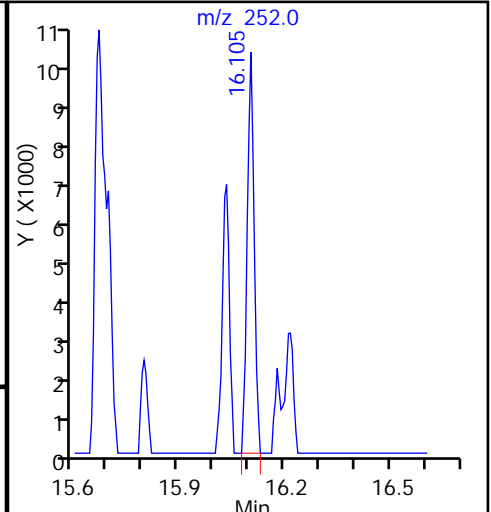
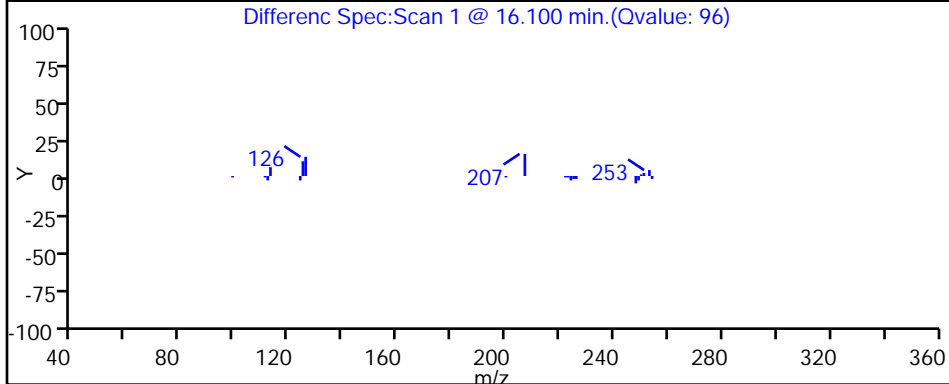
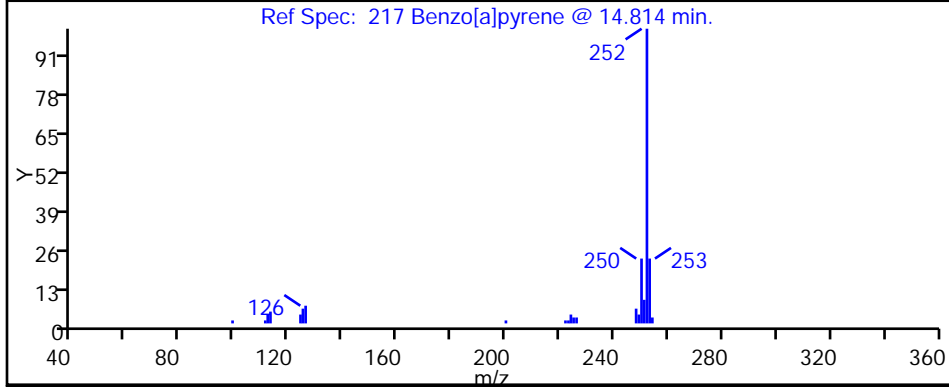
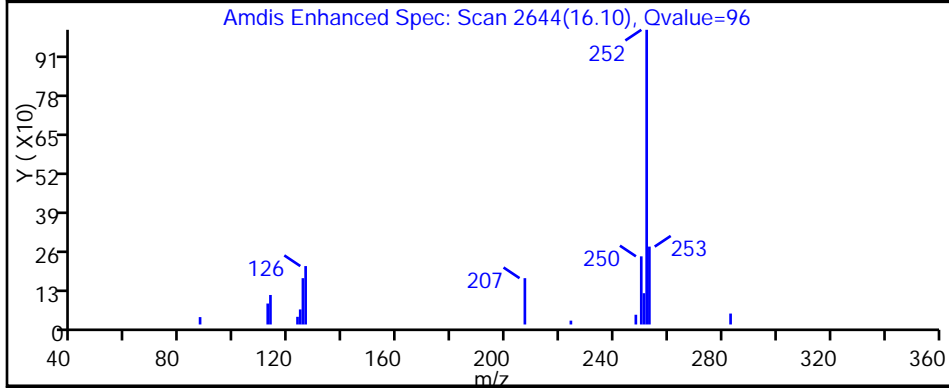
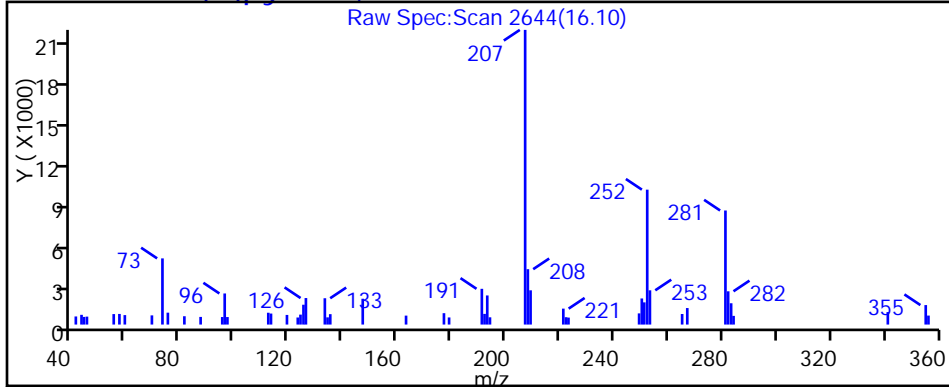
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

217 Benzo[a]pyrene, CAS: 50-32-8

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25870.D

Injection Date: 30-Mar-2016 11:30:30

Instrument ID: HP5973U

Lims ID: 460-110815-B-2-B

Lab Sample ID: 480-110815-2

Client ID: C2

Operator ID: CAS

ALS Bottle#: 16

Worklist Smp#: 16

Injection Vol: 1.0 ul

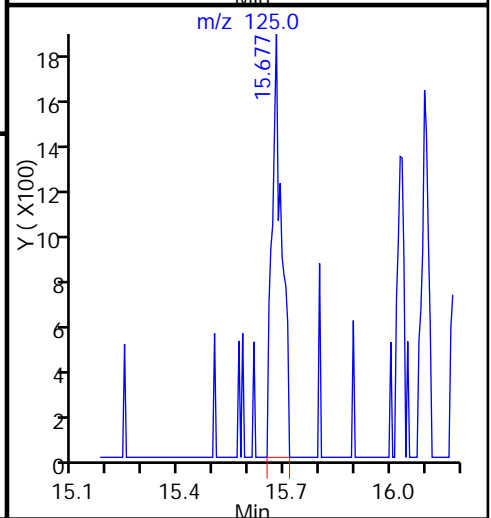
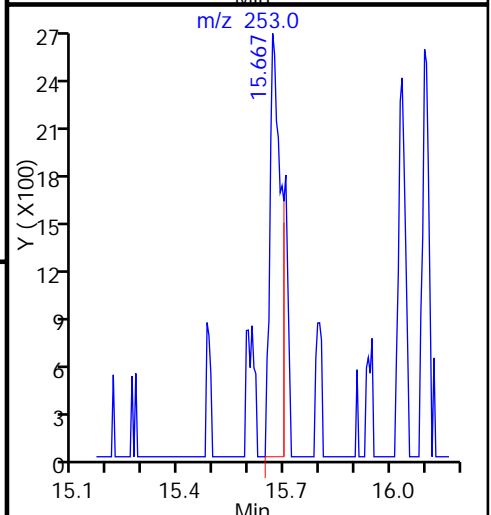
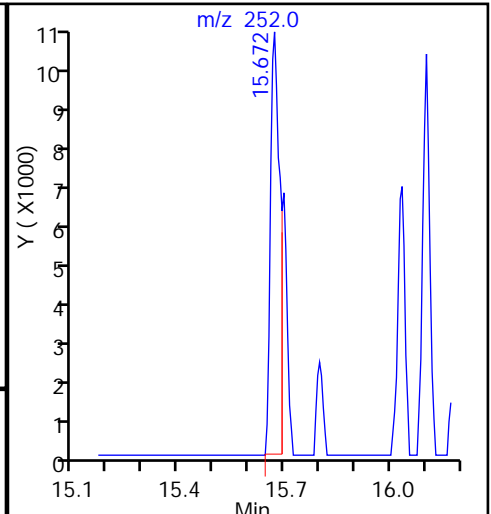
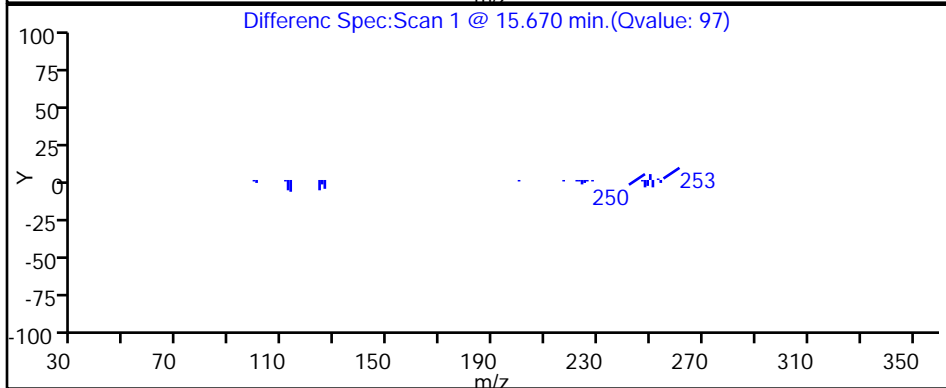
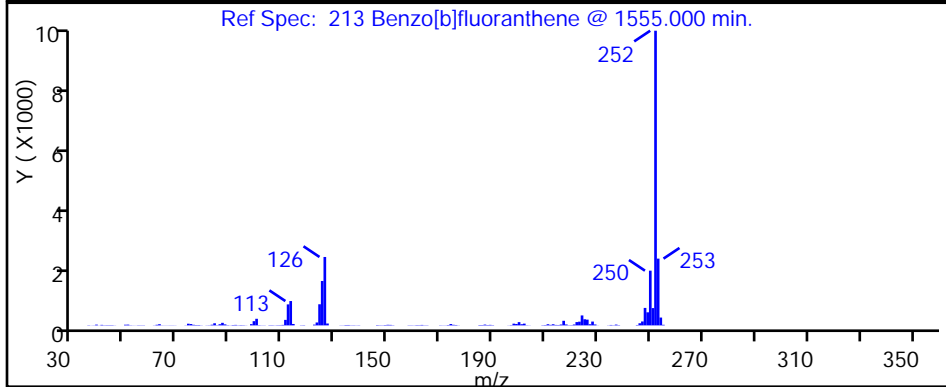
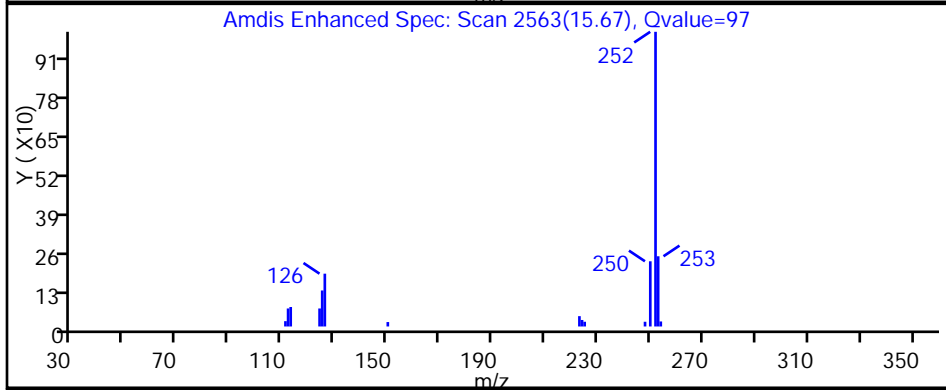
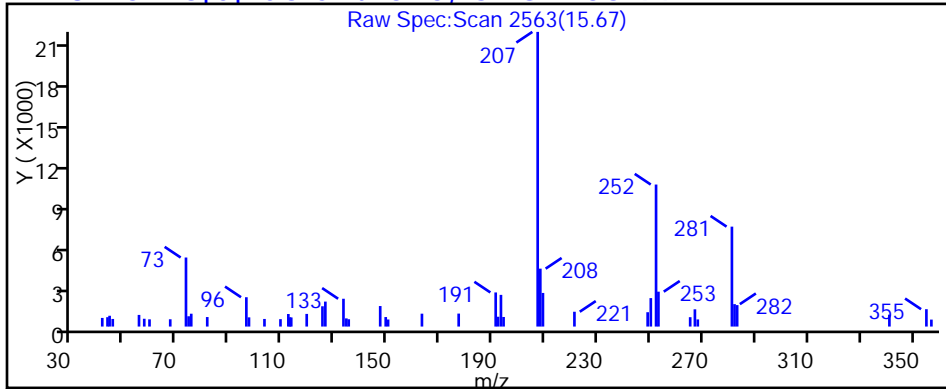
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

213 Benzo[b]fluoranthene, CAS: 205-99-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25870.D

Injection Date: 30-Mar-2016 11:30:30

Instrument ID: HP5973U

Lims ID: 460-110815-B-2-B

Lab Sample ID: 480-110815-2

Client ID: C2

Operator ID: CAS

ALS Bottle#: 16

Worklist Smp#: 16

Injection Vol: 1.0 ul

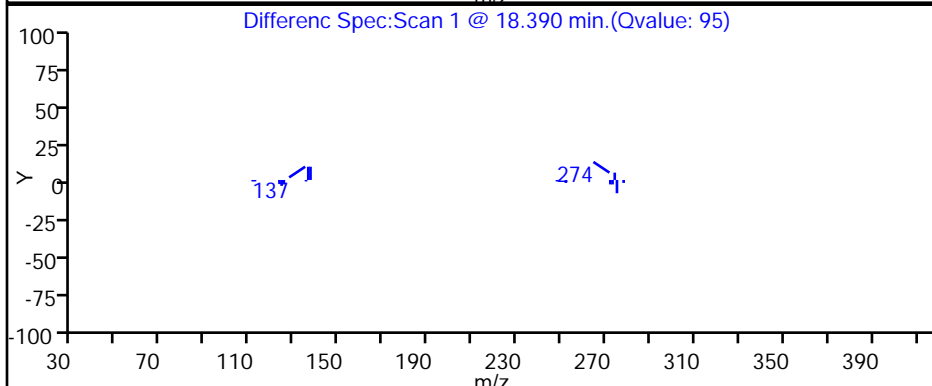
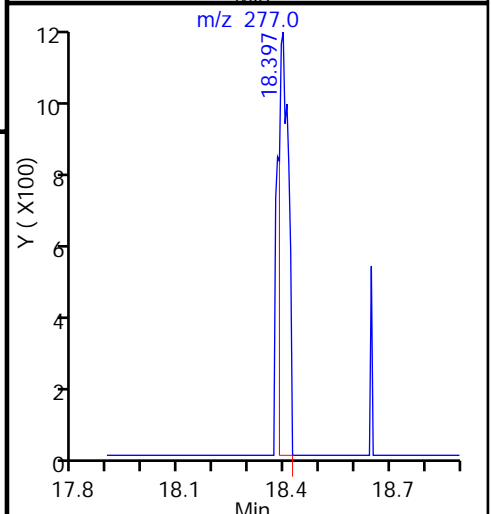
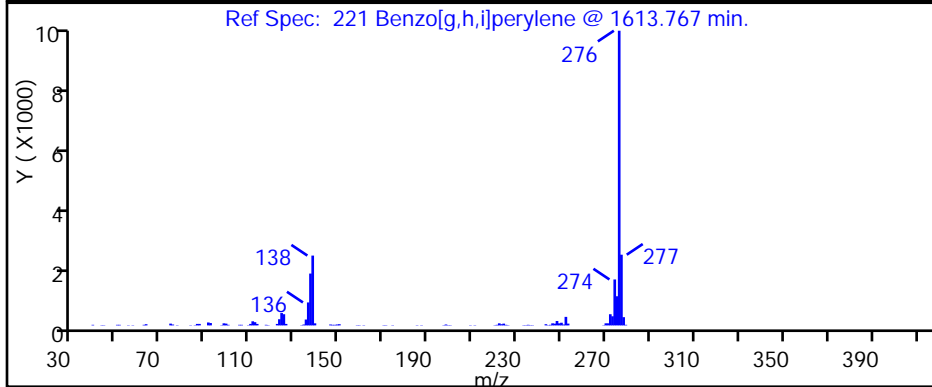
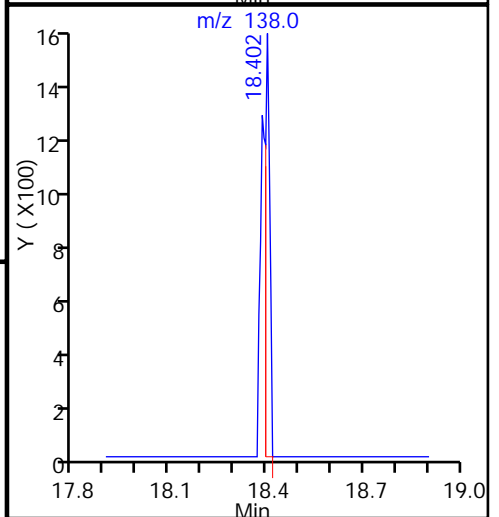
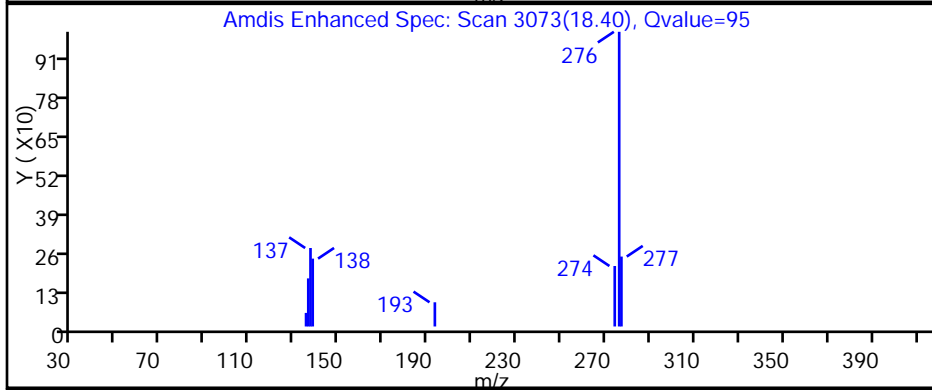
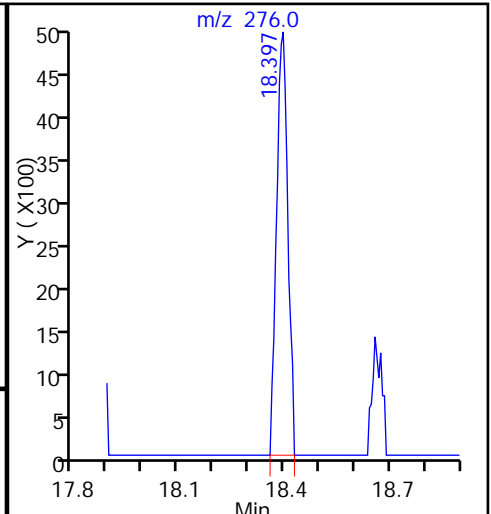
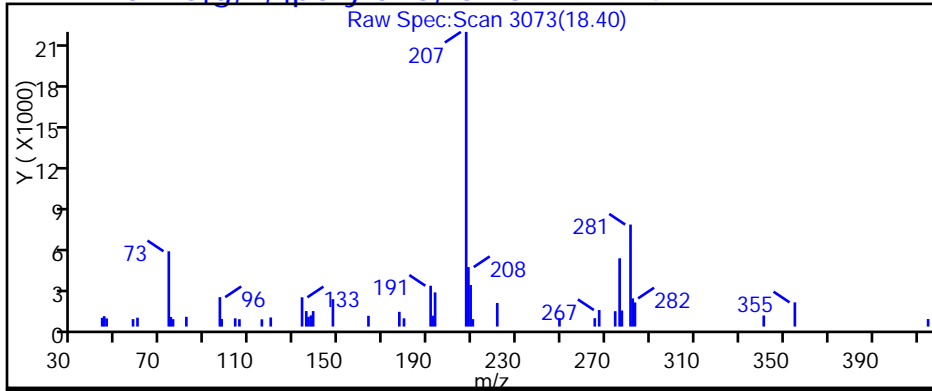
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

221 Benzo[g,h,i]perylene, CAS: 191-24-2

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25870.D

Injection Date: 30-Mar-2016 11:30:30

Instrument ID: HP5973U

Lims ID: 460-110815-B-2-B

Lab Sample ID: 480-110815-2

Client ID: C2

Operator ID: CAS

ALS Bottle#: 16

Worklist Smp#: 16

Injection Vol: 1.0 ul

Dil. Factor: 20.0000

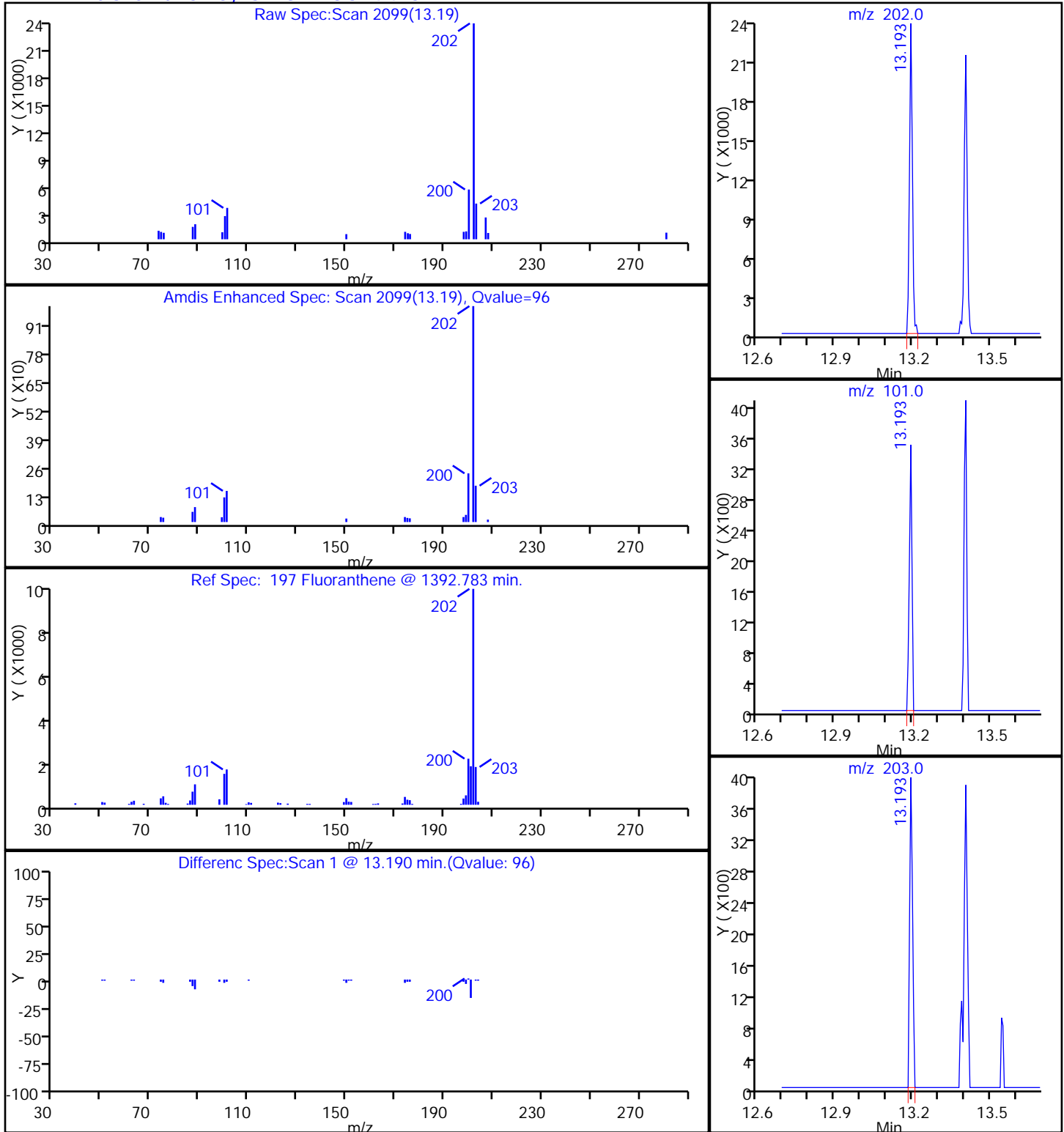
Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

197 Fluoranthene, CAS: 206-44-0



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25870.D

Injection Date: 30-Mar-2016 11:30:30

Instrument ID: HP5973U

Lims ID: 460-110815-B-2-B

Lab Sample ID: 480-110815-2

Client ID: C2

Operator ID: CAS

ALS Bottle#: 16

Worklist Smp#: 16

Injection Vol: 1.0 ul

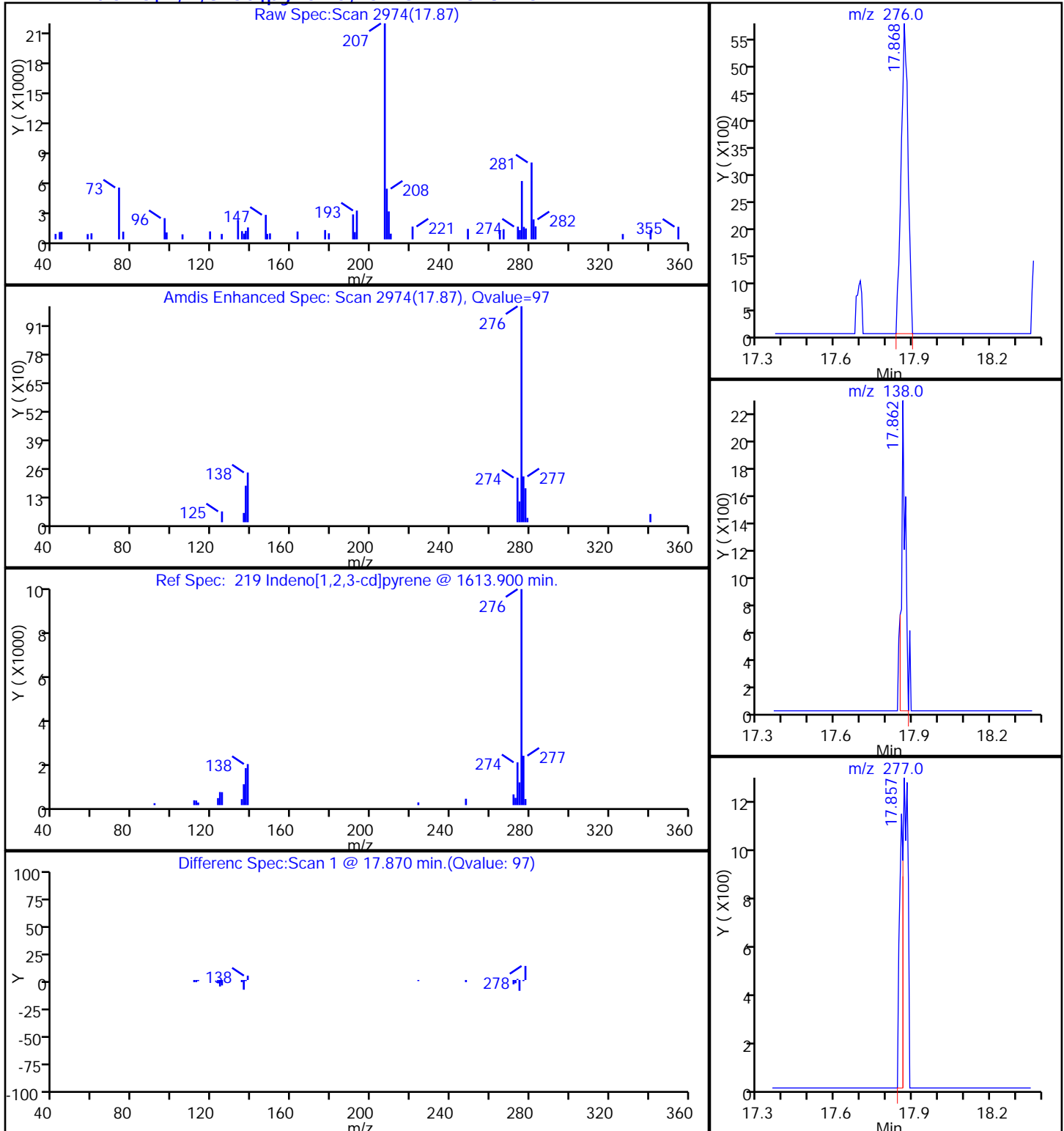
Dil. Factor: 20.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

219 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25870.D

Injection Date: 30-Mar-2016 11:30:30

Instrument ID: HP5973U

Lims ID: 460-110815-B-2-B

Lab Sample ID: 480-110815-2

Client ID: C2

Operator ID: CAS

ALS Bottle#: 16

Worklist Smp#: 16

Injection Vol: 1.0 ul

Dil. Factor: 20.0000

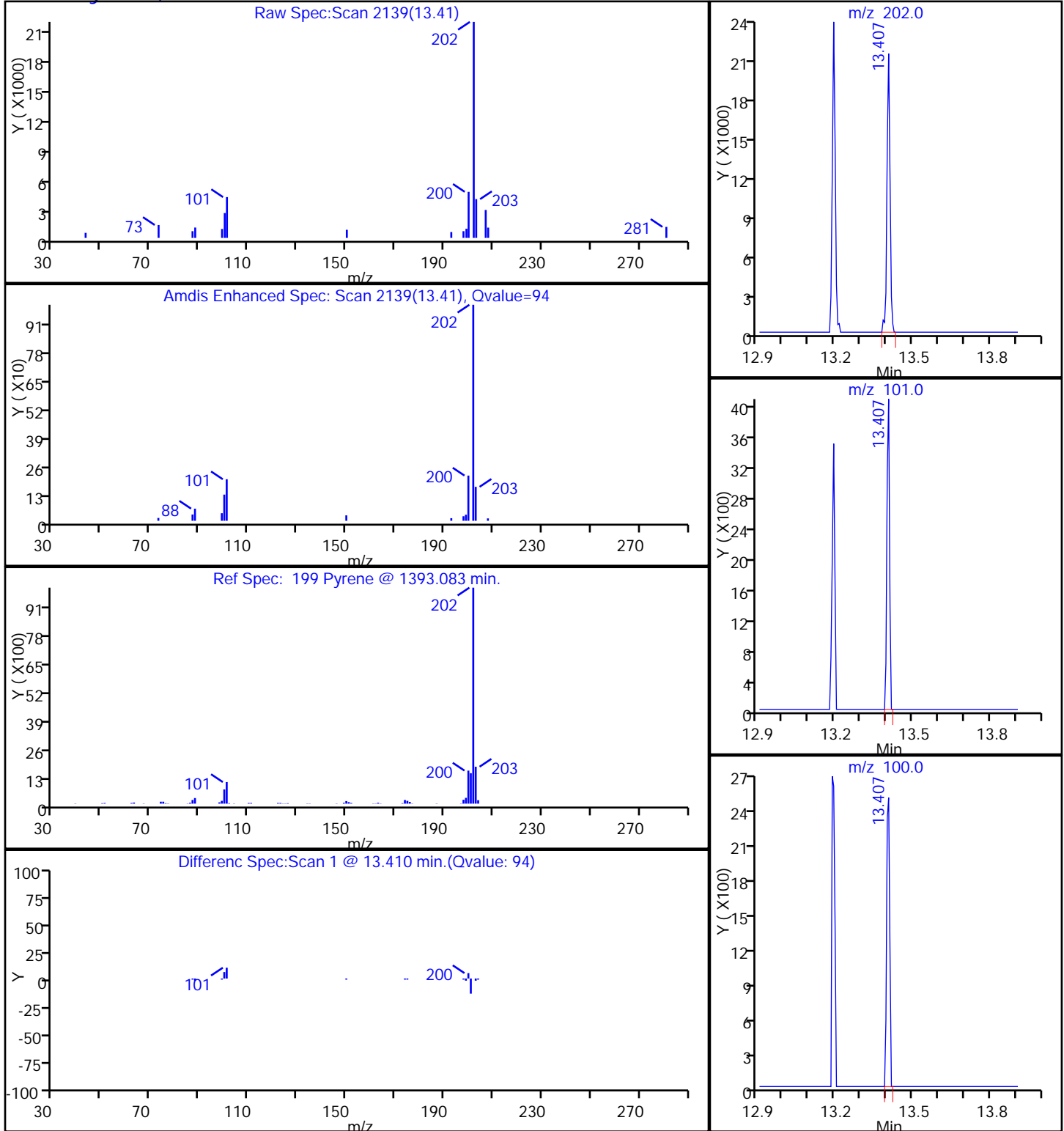
Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

199 Pyrene, CAS: 129-00-0



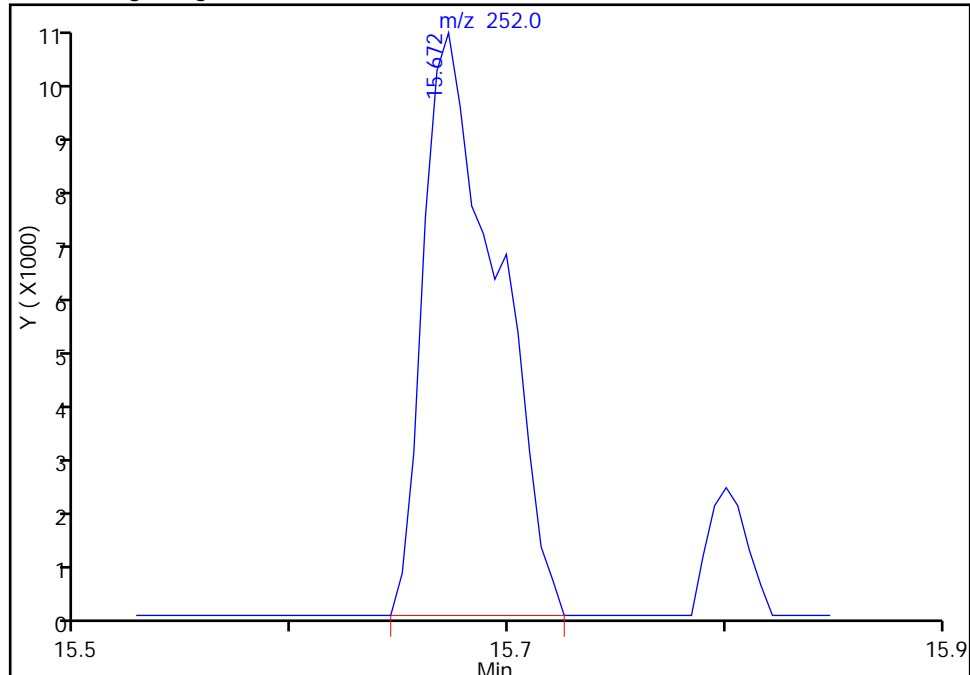
TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25870.D		
Injection Date:	30-Mar-2016 11:30:30	Instrument ID:	HP5973U
Lims ID:	460-110815-B-2-B	Lab Sample ID:	480-110815-2
Client ID:	C2		
Operator ID:	CAS	ALS Bottle#:	16
Injection Vol:	1.0 ul	Dil. Factor:	20.0000
Method:	U-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector:	MS SCAN
		Worklist Smp#:	16

213 Benzo[b]fluoranthene, CAS: 205-99-2

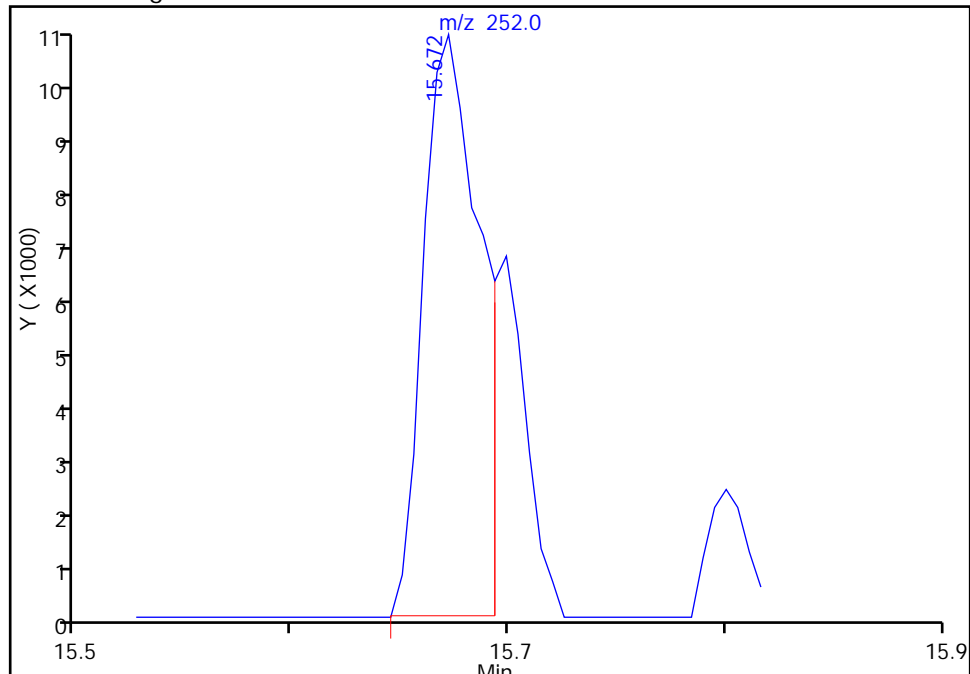
RT: 15.67
Area: 24144
Amount: 1.287639
Amount Units: ng/uL

Processing Integration Results



RT: 15.67
Area: 18915
Amount: 1.008768
Amount Units: ng/uL

Manual Integration Results



Reviewer: richardsd, 30-Mar-2016 13:44:50
Audit Action: Manually Integrated
Audit Reason: Split Peak

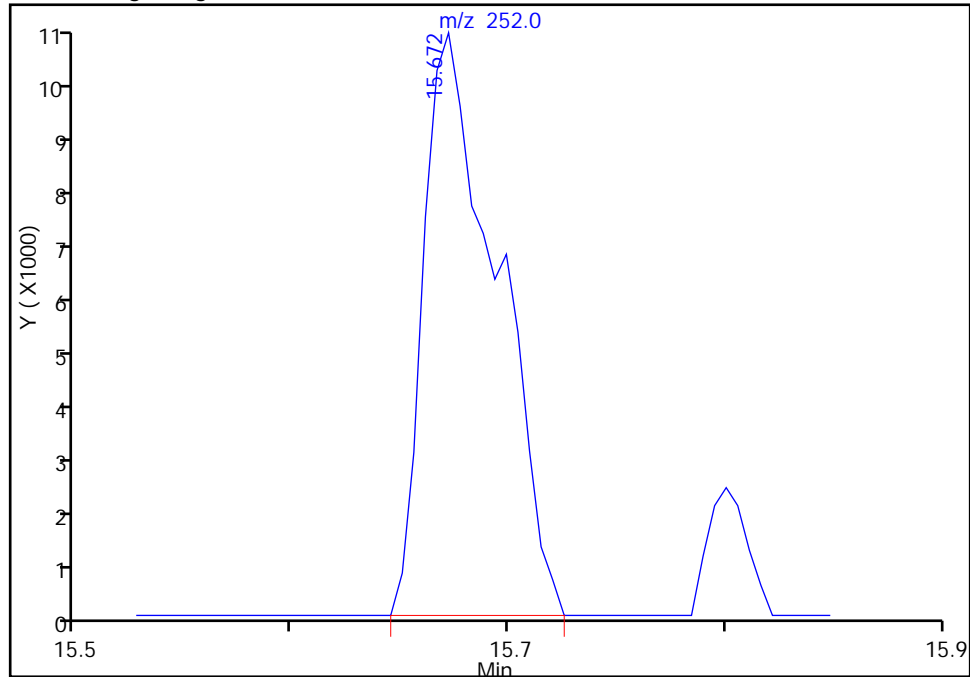
TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25870.D		
Injection Date:	30-Mar-2016 11:30:30	Instrument ID:	HP5973U
Lims ID:	460-110815-B-2-B	Lab Sample ID:	480-110815-2
Client ID:	C2		
Operator ID:	CAS	ALS Bottle#:	16
Injection Vol:	1.0 ul	Dil. Factor:	20.0000
Method:	U-8270	Limit Group:	MB - 8270D ICAL
Column:	RXI-5Sil MS (0.25 mm)	Detector:	MS SCAN
		Worklist Smp#:	16

214 Benzo[k]fluoranthene, CAS: 207-08-9

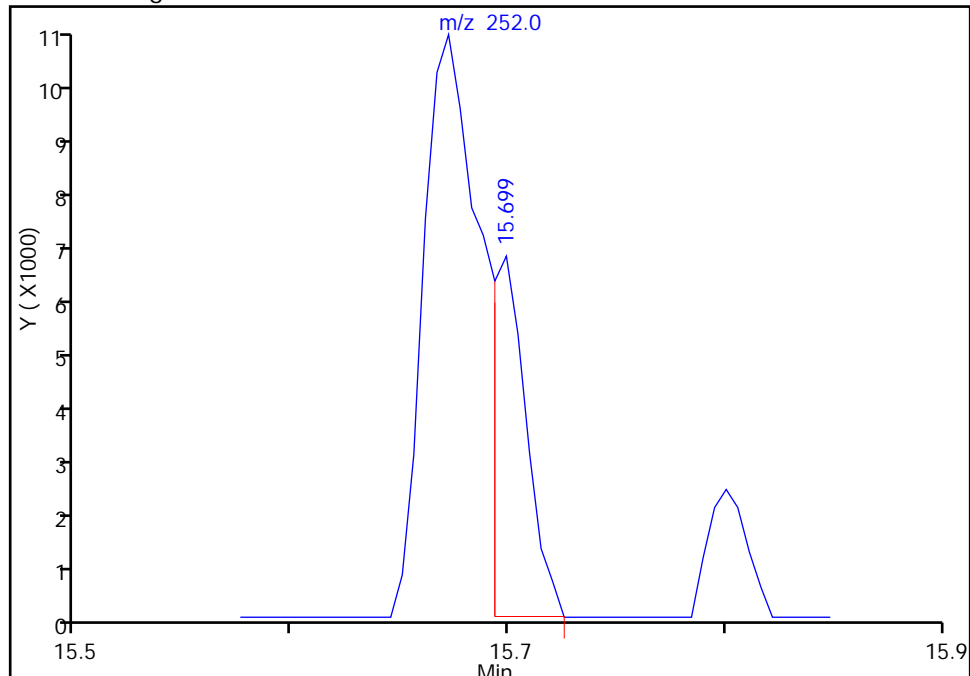
RT: 15.67
Area: 24144
Amount: 1.254534
Amount Units: ng/uL

Processing Integration Results



RT: 15.70
Area: 7013
Amount: 0.364399
Amount Units: ng/uL

Manual Integration Results



Reviewer: richardsd, 30-Mar-2016 13:44:50
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1 Analy Batch No.: 290883

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2016 11:37 Calibration End Date: 03/15/2016 13:51 Calibration ID: 26677

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-290883/3	U25626.D
Level 2	IC 480-290883/4	U25627.D
Level 3	ICIS 480-290883/5	U25628.D
Level 4	IC 480-290883/6	U25629.D
Level 5	IC 480-290883/7	U25630.D
Level 6	IC 480-290883/8	U25631.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 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.6616 0.6676	0.6582	0.6472	0.6397	0.6482	Ave		0.6538				1.6		20.0			
N-Nitrosodimethylamine	0.8593 0.8417	0.9191	0.8617	0.8844	0.8631	Ave		0.8716				3.1		20.0			
Pyridine	1.1493 1.2323	1.2457	1.2219	1.2594	1.2430	Ave		1.2252				3.2		20.0			
Benzaldehyde	0.3343 0.3424	0.3373	0.3393	0.3493	0.3454	Ave		0.3413			0.0100	1.6		20.0			
Phenol	1.6336 1.7086	1.8399	1.7883	1.8521	1.7997	Ave		1.7704			0.8000	4.7		20.0			
Aniline	1.9543 2.1079	2.2264	2.1869	2.2691	2.2128	Ave		2.1596				5.3		20.0			
Bis(2-chloroethyl)ether	1.3937 1.4022	1.5068	1.4636	1.5033	1.4502	Ave		1.4533			0.7000	3.3		20.0			
2-Chlorophenol	1.2849 1.4153	1.4019	1.4252	1.5040	1.4605	Ave		1.4153			0.8000	5.2		20.0			
n-Decane	1.6571 1.8521	1.8285	1.8064	1.8259	1.8227	Ave		1.7988			0.0100	3.9		20.0			
1,3-Dichlorobenzene	1.5603 1.5501	1.6055	1.5423	1.5716	1.5481	Ave		1.5630				1.5		20.0			
1,4-Dichlorobenzene	1.5768 1.5464	1.5888	1.5619	1.5812	1.5540	Ave		1.5682				1.1		20.0			
Benzyl alcohol	0.7948 0.8730	0.9111	0.9211	0.9735	0.9400	Ave		0.9023				6.9		20.0			
1,2-Dichlorobenzene	1.4275 1.4403	1.5222	1.4725	1.4914	1.4740	Ave		1.4713				2.3		20.0			
2-Methylphenol	1.1324 1.2172	1.2852	1.2901	1.3305	1.3004	Ave		1.2593			0.7000	5.8		20.0			
2,2'-oxybis[1-chloropropane]	1.9449 1.9507	2.0714	2.0321	2.0892	2.0375	Ave		2.0210			0.0100	3.0		20.0			

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

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1 Analy Batch No.: 290883
SDG No.: _____
Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 03/15/2016 11:37 Calibration End Date: 03/15/2016 13:51 Calibration ID: 26677

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 3	LVL 4	LVL 5		B	M1	M2								
Indene	2.4072 2.4638	2.6117	2.5373	2.5902	2.5261	Ave		2.5227				3.0		20.0			
4-Methylphenol	1.2312 1.2587	1.3404	1.3443	1.3954	1.3674	Ave		1.3229			0.6000	4.8		20.0			
N-Nitrosodi-n-propylamine	0.9075 0.9577	1.0215	1.0597	1.0882	1.0653	Ave		1.0167			0.5000	6.9		20.0			
Acetophenone	1.7951 1.7540	2.0063	1.9548	2.0026	1.9301	Ave		1.9071			0.0100	5.6		20.0			
Hexachloroethane	0.5634 0.6231	0.6342	0.6287	0.6287	0.6369	Ave		0.6192			0.3000	4.5		20.0			
Nitrobenzene	0.3346 0.3768	0.3688	0.3637	0.3763	0.3839	Ave		0.3673			0.2000	4.8		20.0			
Isophorone	0.5959 0.6465	0.6585	0.6695	0.6873	0.6827	Ave		0.6567			0.4000	5.1		20.0			
2-Nitrophenol	0.1218 0.1770	0.1423	0.1600	0.1726	0.1801	Lin1	-0.383	0.1782			0.1000				0.9980		0.9900
2,4-Dimethylphenol	0.3160 0.3510	0.3557	0.3508	0.3623	0.3604	Ave		0.3494			0.2000	4.9		20.0			
Benzoic acid	0.0676 0.2028	0.1307	0.1711	0.2049	0.2156	Lin1	-0.918	0.2115							0.9930		0.9900
Bis(2-chloroethoxy)methane	0.4077 0.4123	0.4236	0.4190	0.4304	0.4286	Ave		0.4203			0.3000	2.1		20.0			
2,4-Dichlorophenol	0.2349 0.2818	0.2717	0.2789	0.2913	0.2915	Ave		0.2750			0.2000	7.7		20.0			
1,2,4-Trichlorobenzene	0.3000 0.3192	0.3250	0.3146	0.3223	0.3228	Ave		0.3173				2.9		20.0			
Naphthalene	1.0072 0.9944	1.0421	0.9985	1.0046	1.0088	Ave		1.0093			0.7000	1.7		20.0			
4-Chloroaniline	0.3965 0.4215	0.4335	0.4356	0.4471	0.4454	Ave		0.4299			0.0100	4.4		20.0			
2,6-Dichlorophenol	0.2521 0.2773	0.2761	0.2768	0.2862	0.2872	Ave		0.2760				4.6		20.0			
Hexachlorobutadiene	0.1863 0.1968	0.1957	0.1923	0.1952	0.1978	Ave		0.1940			0.0100	2.2		20.0			
Caprolactam	0.0699 0.1050	0.0920	0.1004	0.1088	0.1081	Lin1	-0.219	0.1084			0.0100				0.9990		0.9900
4-Chloro-3-methylphenol	0.2407 0.2790	0.2770	0.2898	0.2956	0.2957	Ave		0.2796			0.2000	7.4		20.0			
2-Methylnaphthalene	0.6134 0.6291	0.6646	0.6487	0.6614	0.6588	Ave		0.6460			0.4000	3.2		20.0			

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

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1 Analy Batch No.: 290883
SDG No.: _____
Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 03/15/2016 11:37 Calibration End Date: 03/15/2016 13:51 Calibration ID: 26677

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 3	LVL 4	LVL 5		B	M1	M2								
1-Methylnaphthalene	0.5841 0.5909	0.6349	0.6050	0.6195	0.6177	Ave		0.6087			0.0100	3.1		20.0			
Hexachlorocyclopentadiene	0.3509 0.4510	0.4296	0.4183	0.4456	0.4585	Lin1	-0.567	0.4541			0.0500				0.9990		0.9900
1,2,4,5-Tetrachlorobenzene	0.5328 0.5809	0.5944	0.5668	0.5771	0.5981	Ave		0.5750			0.0100	4.1		20.0			
2,4,6-Trichlorophenol	0.2712 0.3703	0.3442	0.3582	0.3752	0.3811	Lin1	-0.582	0.3792			0.2000				1.0000		0.9900
2,4,5-Trichlorophenol	0.2820 0.3844	0.3598	0.3686	0.3909	0.3970	Lin1	-0.603	0.3940			0.2000				0.9990		0.9900
1,1'-Biphenyl	1.3845 1.4015	1.5078	1.4165	1.4281	1.4603	Ave		1.4331			0.0100	3.1		20.0			
2-Chloronaphthalene	1.1070 1.1384	1.2091	1.1482	1.1460	1.1691	Ave		1.1530			0.8000	3.0		20.0			
2-Nitroaniline	0.2283 0.3569	0.2990	0.3307	0.3578	0.3661	Lin1	-0.824	0.3644			0.0100				0.9990		0.9900
Dimethyl phthalate	1.1605 1.2715	1.3154	1.2645	1.2885	1.2930	Ave		1.2656			0.0100	4.3		20.0			
1,3-Dinitrobenzene	0.0568 0.1092	0.0780	0.0916	0.1077	0.1101	Lin1	-0.357	0.1101							0.9950		0.9900
2,6-Dinitrotoluene	0.1809 0.3016	0.2525	0.2775	0.2946	0.2997	Lin1	-0.714	0.3036							0.9990		0.9900
Acenaphthylene	1.5572 1.6803	1.7655	1.6853	1.7000	1.7171	Ave		1.6842			0.9000	4.1		20.0			
3-Nitroaniline	0.1968 0.3332	0.2794	0.2980	0.3193	0.3314	Lin1	-0.802	0.3332			0.0100				0.9990		0.9900
2,4-Dinitrophenol	0.0590 0.1665	0.0920	0.1225	0.1488	0.1617	Lin1	-1.470	0.1619			0.0100				0.9880	*	0.9900
Acenaphthene	1.0765 1.1164	1.1504	1.1161	1.1355	1.1455	Ave		1.1234			0.9000	2.4		20.0			
4-Nitrophenol	0.1152 0.1818	0.1577	0.1680	0.1755	0.1808	Lin1	-0.762	0.1823			0.0100				0.9990		0.9900
2,4-Dinitrotoluene	0.2163 0.4018	0.3240	0.3569	0.3907	0.3934	Lin1	-1.095	0.4021			0.2000				0.9990		0.9900
Dibenzofuran	1.5636 1.5899	1.6960	1.5995	1.6148	1.6293	Ave		1.6155			0.8000	2.8		20.0			
2,3,4,6-Tetrachlorophenol	0.2095 0.3328	0.2995	0.3045	0.3296	0.3367	Lin1	-0.699	0.3372			0.0100				0.9990		0.9900
Diethyl phthalate	1.0930 1.2589	1.2651	1.2459	1.2482	1.2576	Ave		1.2281			0.0100	5.4		20.0			

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

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1 Analy Batch No.: 290883
SDG No.: _____
Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N
Calibration Start Date: 03/15/2016 11:37 Calibration End Date: 03/15/2016 13:51 Calibration ID: 26677

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 3	LVL 4	LVL 5		B	M1	M2								
Hexadecane	0.8356 0.9301	0.9674	0.9372	0.9455	0.9618	Ave		0.9296			0.0100	5.2		20.0			
4-Chlorophenyl phenyl ether	0.6234 0.6588	0.6637	0.6564	0.6637	0.6618	Ave		0.6546			0.4000	2.4		20.0			
4-Nitroaniline	0.2208 0.3590	0.2888	0.3171	0.3363	0.3441	Lin1	-0.820	0.3521			0.0100				0.9980		0.9900
Fluorene	1.2458 1.3455	1.3753	1.3112	1.3392	1.3472	Ave		1.3274			0.9000	3.4		20.0			
4,6-Dinitro-2-methylphenol	0.0545 0.1439	0.0958	0.1184	0.1378	0.1417	Lin1	-1.143	0.1440			0.0100				0.9950		0.9900
Diphenylamine	0.6254 0.6715	0.7111	0.6826	0.7137	0.7022	Ave		0.6844				4.9		20.0			
N-Nitrosodiphenylamine	0.5320 0.5712	0.6049	0.5807	0.6072	0.5974	Ave		0.5822			0.0100	4.9		20.0			
1,2-Diphenylhydrazine	0.7924 0.8276	0.9059	0.8523	0.8741	0.8598	Ave		0.8520				4.6		20.0			
trans-Azobenzene	0.7924 0.8276	0.9059	0.8523	0.8741	0.8598	Ave		0.8520				4.6		20.0			
4-Bromophenyl phenyl ether	0.2141 0.2441	0.2460	0.2411	0.2521	0.2513	Ave		0.2415			0.1000	5.8		20.0			
Hexachlorobenzene	0.2704 0.2879	0.2955	0.2904	0.2958	0.2953	Ave		0.2892			0.1000	3.4		20.0			
Atrazine	0.2793 0.3601	0.3427	0.3454	0.3486	0.3474	Ave		0.3372			0.0100	8.6		20.0			
Pentachlorophenol	0.0976 0.1806	0.1422	0.1640	0.1766	0.1819	Lin1	-1.029	0.1830			0.0500				0.9990		0.9900
n-Octadecane	0.4843 0.5422	0.5842	0.5807	0.5865	0.5809	Ave		0.5598			0.0100	7.2		20.0			
Phenanthrene	1.0839 1.1017	1.1597	1.1175	1.1304	1.1022	Ave		1.1159			0.7000	2.4		20.0			
Anthracene	1.0656 1.1477	1.1636	1.1680	1.1821	1.1607	Ave		1.1480			0.7000	3.6		20.0			
Carbazole	0.9680 1.0632	1.0625	1.0727	1.0733	1.0507	Ave		1.0484			0.0100	3.8		20.0			
Di-n-butyl phthalate	1.0235 1.2525	1.2011	1.2621	1.2663	1.2459	Ave		1.2086			0.0100	7.7		20.0			
Fluoranthene	1.0831 1.2334	1.2306	1.2488	1.2375	1.2130	Ave		1.2077			0.6000	5.1		20.0			
Benzidine	0.1766 0.3204	0.2480	0.2802	0.3109	0.3121	Lin1	-0.889	0.3193							0.9980		0.9900

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

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1 Analy Batch No.: 290883
SDG No.: _____
Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 03/15/2016 11:37 Calibration End Date: 03/15/2016 13:51 Calibration ID: 26677

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 3	LVL 4	LVL 5		B	M1	M2								
Pyrene	1.0642 1.0747	1.1515	1.1347	1.1555	1.1163	Ave		1.1162			0.6000	3.5		20.0			
Butyl benzyl phthalate	0.3547 0.4950	0.4652	0.4942	0.5085	0.5027	Lin1	-0.770	0.5087			0.0100				1.0000		0.9900
Bis(2-ethylhexyl) phthalate	0.4828 0.6866	0.6329	0.6738	0.6956	0.6930	Ave		0.6441			0.0100	12.8		20.0			
3,3'-Dichlorobenzidine	0.2992 0.4245	0.3671	0.3872	0.4117	0.4224	Lin1	-0.766	0.4238			0.0100				0.9990		0.9900
Benzo[a]anthracene	1.0615 1.1419	1.1837	1.1542	1.1708	1.1487	Ave		1.1435			0.8000	3.8		20.0			
Chrysene	1.0977 1.0977	1.1359	1.1019	1.1075	1.1016	Ave		1.1070			0.7000	1.3		20.0			
Di-n-octyl phthalate	0.7672 1.1875	1.0397	1.1194	1.1767	1.1798	Lin1	-2.408	1.1991			0.0100				1.0000		0.9900
Benzo[b]fluoranthene	1.0459 1.1650	1.2019	1.1460	1.2592	1.2072	Ave		1.1709			0.7000	6.2		20.0			
Benzo[k]fluoranthene	1.1043 1.1900	1.2529	1.2323	1.2155	1.2156	Ave		1.2018			0.7000	4.3		20.0			
Benzo[a]pyrene	0.9355 1.1311	1.1092	1.1023	1.1464	1.1538	Ave		1.0964			0.7000	7.4		20.0			
Dibenz(a,h)anthracene	0.9266 1.3252	1.0888	1.1111	1.2193	1.2705	Lin1	-2.479	1.2812							0.9960		0.9900
Indeno[1,2,3-cd]pyrene	1.1187 1.5601	1.2777	1.3042	1.4187	1.4871	Lin1	-2.763	1.4996			0.5000				0.9960		0.9900
Benzo[g,h,i]perylene	0.9267 1.2484	1.0383	1.0388	1.1386	1.1926	Lin1	-2.034	1.1992			0.5000				0.9960		0.9900
2-Fluorophenol (Surr)	1.2664 1.4332	1.3593	1.3827	1.4348	1.4187	Ave		1.3825				4.6		20.0			
Phenol-d5 (Surr)	1.5276 1.6576	1.7141	1.7007	1.7748	1.7317	Ave		1.6844				5.1		20.0			
Nitrobenzene-d5 (Surr)	0.3584 0.3903	0.3987	0.3974	0.4158	0.4265	Ave		0.3979				5.9		20.0			
2-Fluorobiphenyl	1.2601 1.3130	1.4087	1.3159	1.3407	1.3573	Ave		1.3326				3.7		20.0			
2,4,6-Tribromophenol (Surr)	0.1007 0.1541	0.1341	0.1470	0.1578	0.1564	Lin1	-0.325	0.1580							0.9990		0.9900
p-Terphenyl-d14 (Surr)	0.8359 0.8513	0.8875	0.8966	0.9109	0.8972	Ave		0.8799				3.4		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1 Analy Batch No.: 290883

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2016 11:37 Calibration End Date: 03/15/2016 13:51 Calibration ID: 26677

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-290883/3	U25626.D
Level 2	IC 480-290883/4	U25627.D
Level 3	ICIS 480-290883/5	U25628.D
Level 4	IC 480-290883/6	U25629.D
Level 5	IC 480-290883/7	U25630.D
Level 6	IC 480-290883/8	U25631.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCB	Ave	8356 186847	31132	76518	129052	162618	5.00 120	20.0	50.0	80.0	100
N-Nitrosodimethylamine	DCB	Ave	10853 235569	43469	101876	178410	216540	5.00 120	20.0	50.0	80.0	100
Pyridine	DCB	Ave	14515 344870	58918	144453	254050	311851	5.00 120	20.0	50.0	80.0	100
Benzaldehyde	DCB	Ave	4222 95813	15954	40117	70468	86648	5.00 120	20.0	50.0	80.0	100
Phenol	DCB	Ave	20632 478186	87019	211410	373618	451528	5.00 120	20.0	50.0	80.0	100
Aniline	DCB	Ave	24682 589926	105302	258539	457746	555168	5.00 120	20.0	50.0	80.0	100
Bis(2-chloroethyl)ether	DCB	Ave	17602 392420	71266	173023	303262	363837	5.00 120	20.0	50.0	80.0	100
2-Chlorophenol	DCB	Ave	16228 396085	66304	168486	303404	366432	5.00 120	20.0	50.0	80.0	100
n-Decane	DCB	Ave	20929 518338	86480	213551	368334	457302	5.00 120	20.0	50.0	80.0	100
1,3-Dichlorobenzene	DCB	Ave	19706 433832	75936	182332	317036	388405	5.00 120	20.0	50.0	80.0	100
1,4-Dichlorobenzene	DCB	Ave	19914 432773	75145	184648	318985	389881	5.00 120	20.0	50.0	80.0	100
Benzyl alcohol	DCB	Ave	10038 244325	43091	108898	196384	235842	5.00 120	20.0	50.0	80.0	100
1,2-Dichlorobenzene	DCB	Ave	18029 403079	71996	174083	300867	369801	5.00 120	20.0	50.0	80.0	100
2-Methylphenol	DCB	Ave	14302 340660	60784	152513	268405	326263	5.00 120	20.0	50.0	80.0	100
2,2'-oxybis[1-chloropropane]	DCB	Ave	24563 545940	97968	240240	421449	511189	5.00 120	20.0	50.0	80.0	100
Indene	DCB	Ave	30402 689547	123523	299960	522517	633755	5.00 120	20.0	50.0	80.0	100

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

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1 Analy Batch No.: 290883

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2016 11:37 Calibration End Date: 03/15/2016 13:51 Calibration ID: 26677

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
4-Methylphenol	DCB	Ave	15549 352269	63397	158926	281498	343063	5.00 120	20.0	50.0	80.0	100
N-Nitrosodi-n-propylamine	DCB	Ave	11461 268042	48313	125280	219525	267271	5.00 120	20.0	50.0	80.0	100
Acetophenone	DCB	Ave	22671 490883	94893	231099	403975	484233	5.00 120	20.0	50.0	80.0	100
Hexachloroethane	DCB	Ave	7116 174381	29995	74327	126833	159782	5.00 120	20.0	50.0	80.0	100
Nitrobenzene	NPT	Ave	16516 384774	68723	171981	306523	374205	5.00 120	20.0	50.0	80.0	100
Isophorone	NPT	Ave	29415 660310	122695	316562	559893	665389	5.00 120	20.0	50.0	80.0	100
2-Nitrophenol	NPT	Lin1	6014 180737	26515	75663	140614	175540	5.00 120	20.0	50.0	80.0	100
2,4-Dimethylphenol	NPT	Ave	15599 358447	66277	165882	295139	351266	5.00 120	20.0	50.0	80.0	100
Benzoic acid	NPT	Lin1	3339 207098	24353	80898	166952	210166	5.00 120	20.0	50.0	80.0	100
Bis(2-chloroethoxy)methane	NPT	Ave	20125 421030	78929	198148	350620	417693	5.00 120	20.0	50.0	80.0	100
2,4-Dichlorophenol	NPT	Ave	11597 287791	50622	131877	237348	284144	5.00 120	20.0	50.0	80.0	100
1,2,4-Trichlorobenzene	NPT	Ave	14809 326036	60552	148778	262545	314649	5.00 120	20.0	50.0	80.0	100
Naphthalene	NPT	Ave	49720 1015618	194173	472129	818375	983210	5.00 120	20.0	50.0	80.0	100
4-Chloroaniline	NPT	Ave	19572 430467	80769	205983	364216	434050	5.00 120	20.0	50.0	80.0	100
2,6-Dichlorophenol	NPT	Ave	12447 283169	51451	130876	233148	279899	5.00 120	20.0	50.0	80.0	100
Hexachlorobutadiene	NPT	Ave	9195 200970	36473	90938	159056	192750	5.00 120	20.0	50.0	80.0	100
Caprolactam	NPT	Lin1	3453 107269	17136	47483	88618	105318	5.00 120	20.0	50.0	80.0	100
4-Chloro-3-methylphenol	NPT	Ave	11880 284964	51604	137043	240842	288172	5.00 120	20.0	50.0	80.0	100
2-Methylnaphthalene	NPT	Ave	30281 642492	123833	306737	538808	642051	5.00 120	20.0	50.0	80.0	100
1-Methylnaphthalene	NPT	Ave	28836 603480	118298	286054	504666	602057	5.00 120	20.0	50.0	80.0	100
Hexachlorocyclopentadiene	ANT	Lin1	9531 240484	42174	107984	198442	237984	5.00 120	20.0	50.0	80.0	100

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

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1 Analy Batch No.: 290883

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2016 11:37 Calibration End Date: 03/15/2016 13:51 Calibration ID: 26677

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,2,4,5-Tetrachlorobenzene	ANT	Ave	14474 309772	58349	146329	256999	310412	5.00 120	20.0	50.0	80.0	100
2,4,6-Trichlorophenol	ANT	Lin1	7368 197458	33795	92470	167096	197776	5.00 120	20.0	50.0	80.0	100
2,4,5-Trichlorophenol	ANT	Lin1	7661 204970	35319	95173	174055	206026	5.00 120	20.0	50.0	80.0	100
1,1'-Biphenyl	ANT	Ave	37611 747295	148020	365695	635925	757932	5.00 120	20.0	50.0	80.0	100
2-Chloronaphthalene	ANT	Ave	30071 607021	118699	296436	510321	606774	5.00 120	20.0	50.0	80.0	100
2-Nitroaniline	ANT	Lin1	6201 190285	29351	85371	159326	190002	5.00 120	20.0	50.0	80.0	100
Dimethyl phthalate	ANT	Ave	31525 678006	129130	326466	573784	671081	5.00 120	20.0	50.0	80.0	100
1,3-Dinitrobenzene	NPT	Lin1	2803 111482	14536	43324	87758	107302	5.00 120	20.0	50.0	80.0	100
2,6-Dinitrotoluene	ANT	Lin1	4914 160836	24792	71638	131183	155572	5.00 120	20.0	50.0	80.0	100
Acenaphthylene	ANT	Ave	42301 895997	173320	435109	757016	891226	5.00 120	20.0	50.0	80.0	100
3-Nitroaniline	ANT	Lin1	5345 177682	27427	76932	142190	171985	5.00 120	20.0	50.0	80.0	100
2,4-Dinitrophenol	ANT	Lin1	3203 177594	18071	63235	132527	167806	10.0 240	40.0	100	160	200
Acenaphthene	ANT	Ave	29244 595320	112934	288148	505653	594542	5.00 120	20.0	50.0	80.0	100
4-Nitrophenol	ANT	Lin1	6259 193898	30963	86731	156269	187635	10.0 240	40.0	100	160	200
2,4-Dinitrotoluene	ANT	Lin1	5877 214239	31806	92145	173961	204200	5.00 120	20.0	50.0	80.0	100
Dibenzofuran	ANT	Ave	42475 847764	166500	412937	719065	845662	5.00 120	20.0	50.0	80.0	100
2,3,4,6-Tetrachlorophenol	ANT	Lin1	5692 177478	29404	78609	146790	174735	5.00 120	20.0	50.0	80.0	100
Diethyl phthalate	ANT	Ave	29692 671296	124192	321667	555840	652734	5.00 120	20.0	50.0	80.0	100
Hexadecane	ANT	Ave	22700 495965	94971	241953	421053	499215	5.00 120	20.0	50.0	80.0	100
4-Chlorophenyl phenyl ether	ANT	Ave	16935 351289	65151	169454	295542	343481	5.00 120	20.0	50.0	80.0	100
4-Nitroaniline	ANT	Lin1	5997 191430	28356	81865	149743	178613	5.00 120	20.0	50.0	80.0	100

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

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1 Analy Batch No.: 290883

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2016 11:37 Calibration End Date: 03/15/2016 13:51 Calibration ID: 26677

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Fluorene	ANT	Ave	33843 717442	135009	338513	596352	699243	5.00 120	20.0	50.0	80.0	100
4,6-Dinitro-2-methylphenol	PHN	Lin1	4792 259954	30331	99172	196819	240395	10.0 240	40.0	100	160	200
Diphenylamine	PHN	Ave	23395 515852	95749	243103	433704	506562	4.25 102	17.0	42.5	68.1	85.1
N-Nitrosodiphenylamine	PHN	Ave	23395 515852	95749	243103	433704	506562	5.00 120	20.0	50.0	80.0	100
1,2-Diphenylhydrazine	PHN	Ave	34845 747404	143392	356819	624356	729061	5.00 120	20.0	50.0	80.0	100
trans-Azobenzene	PHN	Ave	34845 747404	143392	356819	624356	729061	5.00 120	20.0	50.0	80.0	100
4-Bromophenyl phenyl ether	PHN	Ave	9416 220480	38935	100919	180112	213091	5.00 120	20.0	50.0	80.0	100
Hexachlorobenzene	PHN	Ave	11893 260003	46770	121563	211304	250382	5.00 120	20.0	50.0	80.0	100
Atrazine	ANT	Ave	7587 192016	33640	89181	155214	180292	5.00 120	20.0	50.0	80.0	100
Pentachlorophenol	PHN	Lin1	8587 326214	45024	137355	252286	308466	10.0 240	40.0	100	160	200
n-Octadecane	PHN	Ave	21298 489665	92476	243107	418954	492605	5.00 120	20.0	50.0	80.0	100
Phenanthrene	PHN	Ave	47666 994874	183570	467851	807443	934652	5.00 120	20.0	50.0	80.0	100
Anthracene	PHN	Ave	46863 1036408	184189	489008	844382	984224	5.00 120	20.0	50.0	80.0	100
Carbazole	PHN	Ave	42571 960123	168181	449100	766649	890964	5.00 120	20.0	50.0	80.0	100
Di-n-butyl phthalate	PHN	Ave	45010 1131058	190120	528369	904510	1056449	5.00 120	20.0	50.0	80.0	100
Fluoranthene	PHN	Ave	47630 1113836	194793	522809	883983	1028575	5.00 120	20.0	50.0	80.0	100
Benzidine	CRY	Lin1	8119 343897	43153	132234	245438	297312	5.00 120	20.0	50.0	80.0	100
Pyrene	CRY	Ave	48939 1153405	200330	535558	912046	1063283	5.00 120	20.0	50.0	80.0	100
Butyl benzyl phthalate	CRY	Lin1	16313 531197	80938	233263	401362	478862	5.00 120	20.0	50.0	80.0	100
Bis(2-ethylhexyl) phthalate	CRY	Ave	22203 736850	110105	318034	549082	660131	5.00 120	20.0	50.0	80.0	100
3,3'-Dichlorobenzidine	CRY	Lin1	13759 455620	63868	182740	324986	402344	5.00 120	20.0	50.0	80.0	100

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

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1 Analy Batch No.: 290883

SDG No.: _____

Instrument ID: HP5973U GC Column: RXI-5Sil MS ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/15/2016 11:37 Calibration End Date: 03/15/2016 13:51 Calibration ID: 26677

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Benzo[a]anthracene	CRY	Ave	48813 1225544	205942	544761	924123	1094103	5.00 120	20.0	50.0	80.0	100
Chrysene	CRY	Ave	50477 1178074	197624	520081	874159	1049249	5.00 120	20.0	50.0	80.0	100
Di-n-octyl phthalate	CRY	Lin1	35281 1274476	180885	528332	928817	1123731	5.00 120	20.0	50.0	80.0	100
Benzo[b]fluoranthene	PRY	Ave	48263 1360236	208718	537817	993120	1183439	5.00 120	20.0	50.0	80.0	100
Benzo[k]fluoranthene	PRY	Ave	50956 1389377	217578	578319	958645	1191723	5.00 120	20.0	50.0	80.0	100
Benzo[a]pyrene	PRY	Ave	43166 1320666	192625	517276	904128	1131144	5.00 120	20.0	50.0	80.0	100
Dibenz(a,h)anthracene	PRY	Lin1	42758 1547294	189075	521443	961614	1245523	5.00 120	20.0	50.0	80.0	100
Indeno[1,2,3-cd]pyrene	PRY	Lin1	51621 1821560	221879	612040	1118882	1457892	5.00 120	20.0	50.0	80.0	100
Benzo[g,h,i]perylene	PRY	Lin1	42762 1457613	180309	487481	898007	1169140	5.00 120	20.0	50.0	80.0	100
2-Fluorophenol (Surr)	DCB	Ave	15994 401102	64292	163465	289447	355943	5.00 120	20.0	50.0	80.0	100
Phenol-d5 (Surr)	DCB	Ave	19293 463895	81070	201059	358040	434450	5.00 120	20.0	50.0	80.0	100
Nitrobenzene-d5 (Surr)	NPT	Ave	17694 398622	74288	187928	338736	415647	5.00 120	20.0	50.0	80.0	100
2-Fluorobiphenyl	ANT	Ave	34231 700135	138293	339739	597025	704479	5.00 120	20.0	50.0	80.0	100
2,4,6-Tribromophenol (Surr)	PHN	Lin1	4429 139167	21232	61542	112732	132661	5.00 120	20.0	50.0	80.0	100
p-Terphenyl-d14 (Surr)	CRY	Ave	38438 913667	154401	423185	718972	854581	5.00 120	20.0	50.0	80.0	100

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25626.D
 Lims ID: IC - List1 5ppm
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 15-Mar-2016 11:37:30 ALS Bottle#: 1 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: CAL 5 PT
 Operator ID: MKP Instrument ID: HP5973U
 Sublist: chrom-U-8270*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 17-Mar-2016 13:23:01 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: pagem

Date: 15-Mar-2016 12:26:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.996	6.996	0.000	98	101037	40.0	40.0	
* 2 Naphthalene-d8	136	8.508	8.508	0.000	100	394914	40.0	40.0	
* 3 Acenaphthene-d10	164	10.565	10.565	0.000	99	217319	40.0	40.0	
* 4 Phenanthrene-d10	188	12.082	12.082	0.000	99	351811	40.0	40.0	
* 5 Chrysene-d12	240	14.518	14.518	0.000	97	367882	40.0	40.0	
* 6 Perylene-d12	264	16.195	16.195	0.000	98	369150	40.0	40.0	
\$ 9 2-Fluorophenol	112	5.410	5.409	0.001	95	15994	5.00	4.58	
\$ 10 Phenol-d5	99	6.499	6.499	0.000	87	19293	5.00	4.53	
\$ 11 Nitrobenzene-d5	82	7.637	7.637	0.000	97	17694	5.00	4.50	
\$ 12 2-Fluorobiphenyl	172	9.774	9.774	0.000	99	34231	5.00	4.73	
\$ 13 2,4,6-Tribromophenol	330	11.393	11.393	0.000	90	4429	5.00	5.24	
\$ 14 p-Terphenyl-d14	244	13.503	13.503	0.000	99	38438	5.00	4.75	
80 1,4-Dioxane	88	3.128	3.128	0.000	95	8356	5.00	5.06	
81 N-Nitrosodimethylamine	42	3.550	3.556	-0.006	90	10853	5.00	4.93	
82 Pyridine	52	3.657	3.657	0.000	93	14515	5.00	4.69	
88 Benzaldehyde	77	6.462	6.467	-0.005	92	4222	5.00	4.90	
89 Phenol	94	6.515	6.515	0.000	98	20632	5.00	4.61	
90 Aniline	93	6.585	6.590	-0.005	97	24682	5.00	4.52	
91 Bis(2-chloroethyl)ether	93	6.638	6.638	0.000	97	17602	5.00	4.80	
93 2-Chlorophenol	128	6.745	6.745	0.000	96	16228	5.00	4.54	
258 n-Decane	57	6.782	6.782	0.000	96	20929	5.00	4.61	
94 1,3-Dichlorobenzene	146	6.937	6.937	0.000	97	19706	5.00	4.99	
95 1,4-Dichlorobenzene	146	7.018	7.017	0.001	94	19914	5.00	5.03	
96 Benzyl alcohol	108	7.119	7.124	-0.005	92	10038	5.00	4.40	
97 1,2-Dichlorobenzene	146	7.204	7.204	0.000	96	18029	5.00	4.85	
98 2-Methylphenol	108	7.242	7.242	0.000	98	14302	5.00	4.50	
99 2,2'-oxybis[1-chloropropan	45	7.285	7.285	0.000	94	24563	5.00	4.81	
249 Indene	115	7.306	7.306	0.000	96	30402	5.00	4.77	
102 4-Methylphenol	108	7.413	7.418	-0.005	93	15549	5.00	4.65	
101 N-Nitrosodi-n-propylamine	70	7.429	7.434	-0.005	92	11461	5.00	4.46	
104 Acetophenone	105	7.445	7.445	0.000	95	22671	5.00	4.71	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
106 Hexachloroethane	117	7.616	7.616	0.000	92	7116	5.00	4.55	
107 Nitrobenzene	77	7.659	7.658	0.001	89	16516	5.00	4.55	
110 Isophorone	82	7.931	7.931	0.000	99	29415	5.00	4.54	
111 2-Nitrophenol	139	8.043	8.043	0.000	95	6014	5.00	5.57	
112 2,4-Dimethylphenol	107	8.054	8.054	0.000	94	15599	5.00	4.52	
119 Benzoic acid	105	8.081	8.113	-0.032	1	3339	5.00	5.94	M
115 Bis(2-chloroethoxy)methane	93	8.161	8.161	0.000	99	20125	5.00	4.85	
117 2,4-Dichlorophenol	162	8.321	8.321	0.000	95	11597	5.00	4.27	
120 1,2,4-Trichlorobenzene	180	8.439	8.438	0.001	94	14809	5.00	4.73	
121 Naphthalene	128	8.535	8.535	0.000	97	49720	5.00	4.99	
123 4-Chloroaniline	127	8.572	8.567	0.005	97	19572	5.00	4.61	
124 2,6-Dichlorophenol	162	8.593	8.588	0.005	97	12447	5.00	4.57	
126 Hexachlorobutadiene	225	8.684	8.684	0.000	95	9195	5.00	4.80	
127 Caprolactam	113	8.930	8.946	-0.016	39	3453	5.00	5.25	
131 4-Chloro-3-methylphenol	107	9.122	9.122	0.000	92	11880	5.00	4.30	
133 2-Methylnaphthalene	142	9.357	9.357	0.000	92	30281	5.00	4.75	
252 1-Methylnaphthalene	142	9.475	9.475	0.000	96	28836	5.00	4.80	
136 Hexachlorocyclopentadiene	237	9.555	9.555	0.000	96	9531	5.00	5.11	
138 1,2,4,5-Tetrachlorobenzene	216	9.560	9.560	0.000	97	14474	5.00	4.63	
139 2,4,6-Trichlorophenol	196	9.678	9.678	0.000	95	7368	5.00	5.11	
140 2,4,5-Trichlorophenol	196	9.726	9.726	0.000	92	7661	5.00	5.11	
144 1,1'-Biphenyl	154	9.897	9.897	0.000	95	37611	5.00	4.83	
143 2-Chloronaphthalene	162	9.934	9.934	0.000	96	30071	5.00	4.80	
145 2-Nitroaniline	65	10.025	10.025	0.000	79	6201	5.00	5.39	
147 Dimethyl phthalate	163	10.212	10.217	-0.005	98	31525	5.00	4.58	
50 1,3-Dinitrobenzene	168	10.250	10.255	-0.005	83	2803	5.00	5.82	
148 2,6-Dinitrotoluene	165	10.287	10.287	0.000	87	4914	5.00	5.33	
149 Acenaphthylene	152	10.415	10.410	0.005	98	42301	5.00	4.62	
150 3-Nitroaniline	138	10.485	10.485	0.000	91	5345	5.00	5.36	
152 2,4-Dinitrophenol	184	10.597	10.597	0.000	77	3203	10.0	12.7	
151 Acenaphthene	153	10.602	10.602	0.000	95	29244	5.00	4.79	
153 4-Nitrophenol	109	10.634	10.639	-0.005	94	6259	10.0	10.5	
154 2,4-Dinitrotoluene	165	10.736	10.736	0.000	89	5877	5.00	5.41	
155 Dibenzofuran	168	10.784	10.784	0.000	96	42475	5.00	4.84	
158 2,3,4,6-Tetrachlorophenol	232	10.907	10.907	0.000	94	5692	5.00	5.18	
160 Diethyl phthalate	149	10.976	10.976	0.000	98	29692	5.00	4.45	
257 Hexadecane	57	10.987	10.987	0.000	97	22700	5.00	4.49	
162 4-Chlorophenyl phenyl ethe	204	11.126	11.126	0.000	91	16935	5.00	4.76	
164 4-Nitroaniline	138	11.131	11.136	-0.005	83	5997	5.00	5.46	
161 Fluorene	166	11.147	11.147	0.000	93	33843	5.00	4.69	
166 4,6-Dinitro-2-methylphenol	198	11.168	11.174	-0.006	82	4792	10.0	11.7	
169 Diphenylamine	169	11.238	11.238	0.000	97	23395	4.25	3.89	
167 N-Nitrosodiphenylamine	169	11.238	11.238	0.000	99	23395	5.00	4.57	
170 Azobenzene	77	11.286	11.286	0.000	97	34845	5.00	4.65	
168 1,2-Diphenylhydrazine	77	11.286	11.286	0.000	98	34845	5.00	4.65	
176 4-Bromophenyl phenyl ether	248	11.623	11.622	0.001	95	9416	5.00	4.43	
177 Hexachlorobenzene	284	11.719	11.719	0.000	96	11893	5.00	4.68	
180 Atrazine	200	11.740	11.740	0.000	90	7587	5.00	4.14	
181 Pentachlorophenol	266	11.895	11.895	0.000	92	8587	10.0	11.0	
263 n-Octadecane	57	11.900	11.900	0.000	97	21298	5.00	4.33	
185 Phenanthrene	178	12.103	12.103	0.000	98	47666	5.00	4.86	
188 Anthracene	178	12.151	12.151	0.000	97	46863	5.00	4.64	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
189 Carbazole	167	12.285	12.285	0.000	97	42571	5.00	4.62	
192 Di-n-butyl phthalate	149	12.552	12.547	0.005	100	45010	5.00	4.23	
197 Fluoranthene	202	13.204	13.198	0.006	99	47630	5.00	4.48	
198 Benzidine	184	13.279	13.279	0.000	98	8119	5.00	5.55	
199 Pyrene	202	13.418	13.417	0.001	97	48939	5.00	4.77	
205 Butyl benzyl phthalate	149	13.904	13.898	0.006	97	16313	5.00	5.00	
210 Bis(2-ethylhexyl) phthalat	149	14.390	14.390	0.000	98	22203	5.00	3.75	
208 3,3'-Dichlorobenzidine	252	14.438	14.432	0.006	98	13759	5.00	5.34	
209 Benzo[a]anthracene	228	14.507	14.507	0.000	97	48813	5.00	4.64	
211 Chrysene	228	14.545	14.545	0.000	97	50477	5.00	4.96	
212 Di-n-octyl phthalate	149	15.020	15.020	0.000	99	35281	5.00	5.21	
213 Benzo[b]fluoranthene	252	15.683	15.683	0.000	97	48263	5.00	4.47	
214 Benzo[k]fluoranthene	252	15.715	15.715	0.000	98	50956	5.00	4.59	
217 Benzo[a]pyrene	252	16.121	16.121	0.000	97	43166	5.00	4.27	
220 Dibenz(a,h)anthracene	278	17.889	17.889	0.000	73	42758	5.00	5.55	
219 Indeno[1,2,3-cd]pyrene	276	17.889	17.894	-0.005	94	51621	5.00	5.57	
221 Benzo[g,h,i]perylene	276	18.423	18.423	0.000	97	42762	5.00	5.56	
S 78 3-Methylphenol	1				0			4.65	
S 222 Total Cresols	1				0			9.15	
S 77 3 & 4 Methylphenol	108				0			4.65	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00298

Amount Added: 1.00

Units: mL

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

Chrom Revision: 2.2 04-Mar-2016 14:36:24

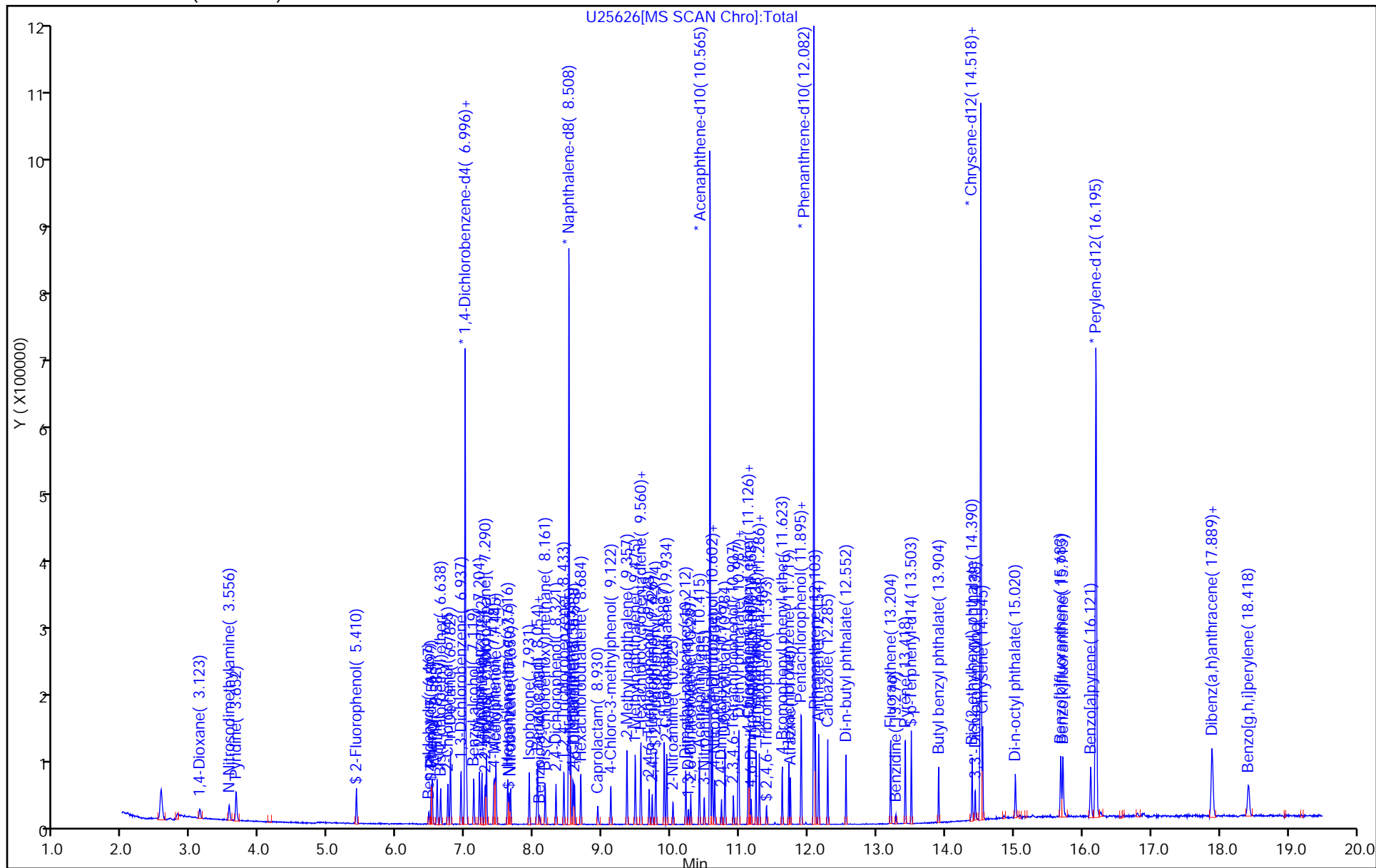
Operator ID: MKP

Worklist Smp#: 3

ALS Bottle#: 1

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25626.D

Injection Date: 15-Mar-2016 11:37:30

Instrument ID: HP5973U

Lims ID: IC - List1 5ppm

Client ID:

Operator ID: MKP

ALS Bottle#: 1 Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

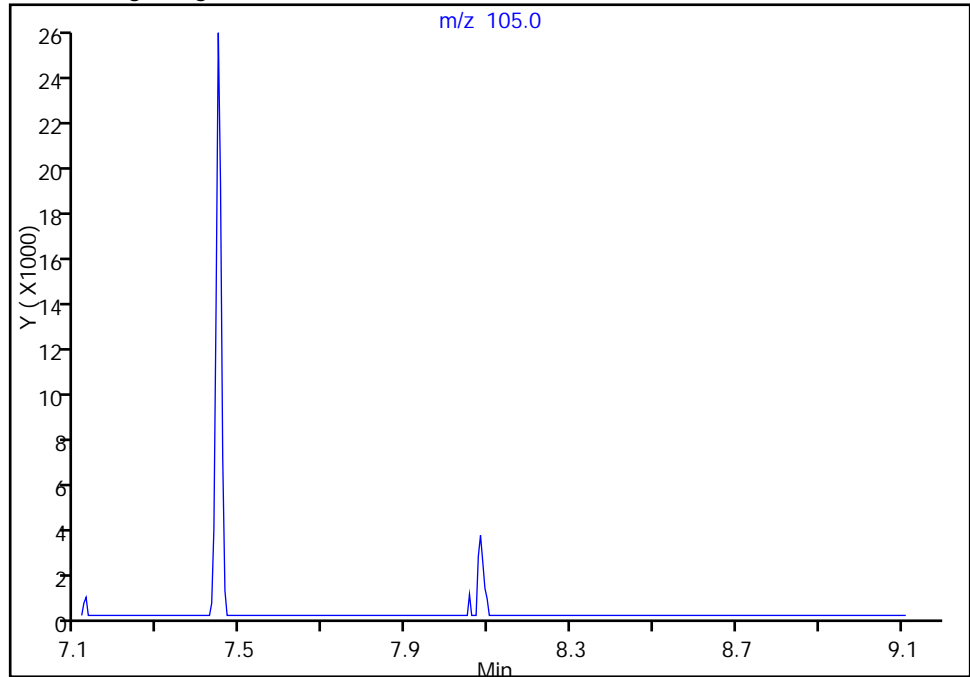
Detector: MS SCAN

119 Benzoic acid, CAS: 65-85-0

Not Detected

Expected RT: 8.11

Processing Integration Results



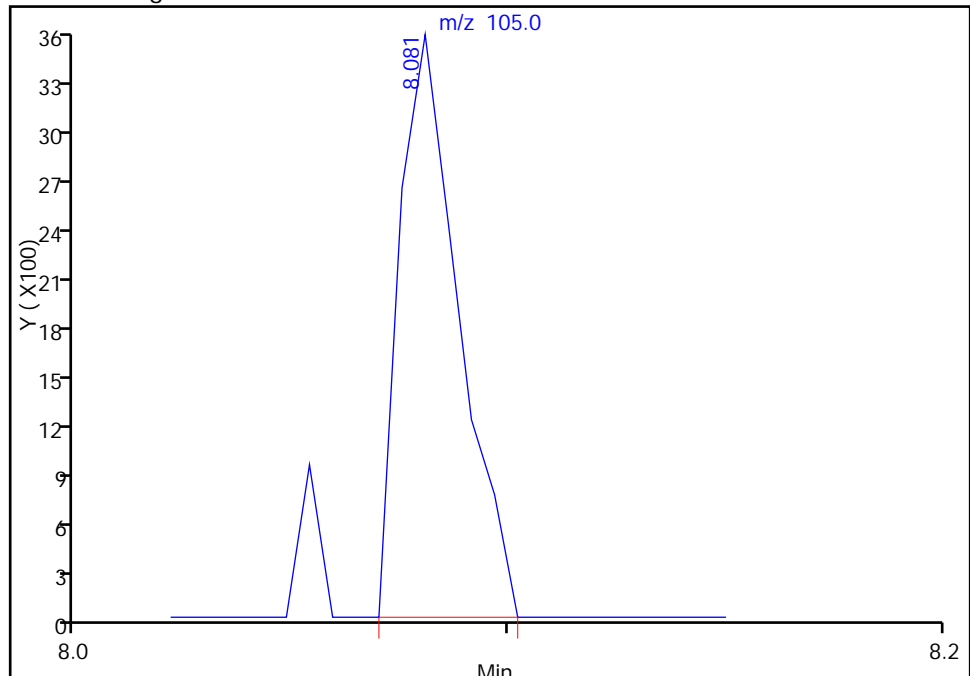
RT: 8.08

Area: 3339

Amount: 5.939121

Amount Units: ng/uL

Manual Integration Results



Reviewer: pagem, 15-Mar-2016 13:14:23

Audit Action: Manually Integrated

Audit Reason: Missed Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25627.D
 Lims ID: IC - List1 20ppm
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 15-Mar-2016 12:04:30 ALS Bottle#: 2 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0051236-004
 Misc. Info.: IC - LIST1 20PPM
 Operator ID: MKP Instrument ID: HP5973U
 Sublist: chrom-U-8270*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 17-Mar-2016 13:23:06 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: pagem

Date: 15-Mar-2016 14:49:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.996	6.996	0.000	98	94593	40.0	40.0	
* 2 Naphthalene-d8	136	8.508	8.508	0.000	100	372650	40.0	40.0	
* 3 Acenaphthene-d10	164	10.565	10.565	0.000	98	196341	40.0	40.0	
* 4 Phenanthrene-d10	188	12.082	12.082	0.000	98	316574	40.0	40.0	
* 5 Chrysene-d12	240	14.518	14.518	0.000	97	347950	40.0	40.0	
* 6 Perylene-d12	264	16.195	16.195	0.000	97	347320	40.0	40.0	
\$ 9 2-Fluorophenol	112	5.404	5.409	-0.005	97	64292	20.0	19.7	
\$ 10 Phenol-d5	99	6.499	6.499	0.000	88	81070	20.0	20.4	
\$ 11 Nitrobenzene-d5	82	7.632	7.637	-0.005	97	74288	20.0	20.0	
\$ 12 2-Fluorobiphenyl	172	9.774	9.774	0.000	100	138293	20.0	21.1	
\$ 13 2,4,6-Tribromophenol	330	11.393	11.393	0.000	93	21232	20.0	19.0	
\$ 14 p-Terphenyl-d14	244	13.503	13.503	0.000	99	154401	20.0	20.2	
80 1,4-Dioxane	88	3.118	3.128	-0.010	99	31132	20.0	20.1	
81 N-Nitrosodimethylamine	42	3.540	3.556	-0.016	89	43469	20.0	21.1	
82 Pyridine	52	3.641	3.657	-0.016	93	58918	20.0	20.3	
88 Benzaldehyde	77	6.462	6.467	-0.005	95	15954	20.0	19.8	
89 Phenol	94	6.515	6.515	0.000	98	87019	20.0	20.8	
90 Aniline	93	6.585	6.590	-0.005	97	105302	20.0	20.6	
91 Bis(2-chloroethyl)ether	93	6.638	6.638	0.000	97	71266	20.0	20.7	
93 2-Chlorophenol	128	6.745	6.745	0.000	97	66304	20.0	19.8	
258 n-Decane	57	6.782	6.782	0.000	97	86480	20.0	20.3	
94 1,3-Dichlorobenzene	146	6.932	6.937	-0.005	97	75936	20.0	20.5	
95 1,4-Dichlorobenzene	146	7.012	7.017	-0.005	93	75145	20.0	20.3	
96 Benzyl alcohol	108	7.119	7.124	-0.005	92	43091	20.0	20.2	
97 1,2-Dichlorobenzene	146	7.204	7.204	0.000	94	71996	20.0	20.7	
98 2-Methylphenol	108	7.242	7.242	0.000	98	60784	20.0	20.4	
99 2,2'-oxybis[1-chloropropan	45	7.284	7.285	-0.001	94	97968	20.0	20.5	
249 Indene	115	7.306	7.306	0.000	96	123523	20.0	20.7	
102 4-Methylphenol	108	7.413	7.418	-0.005	95	63397	20.0	20.3	
101 N-Nitrosodi-n-propylamine	70	7.429	7.434	-0.005	90	48313	20.0	20.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
104 Acetophenone	105	7.445	7.445	0.000	96	94893	20.0	21.0	
106 Hexachloroethane	117	7.616	7.616	0.000	95	29995	20.0	20.5	
107 Nitrobenzene	77	7.658	7.658	0.000	89	68723	20.0	20.1	
110 Isophorone	82	7.931	7.931	0.000	99	122695	20.0	20.1	
111 2-Nitrophenol	139	8.038	8.043	-0.005	96	26515	20.0	18.1	
112 2,4-Dimethylphenol	107	8.054	8.054	0.000	96	66277	20.0	20.4	
119 Benzoic acid	105	8.097	8.113	-0.016	76	24353	20.0	16.7	M
115 Bis(2-chloroethoxy)methane	93	8.161	8.161	0.000	98	78929	20.0	20.2	
117 2,4-Dichlorophenol	162	8.321	8.321	0.000	95	50622	20.0	19.8	
120 1,2,4-Trichlorobenzene	180	8.433	8.438	-0.005	94	60552	20.0	20.5	
121 Naphthalene	128	8.535	8.535	0.000	98	194173	20.0	20.7	
123 4-Chloroaniline	127	8.567	8.567	0.000	96	80769	20.0	20.2	
124 2,6-Dichlorophenol	162	8.588	8.588	0.000	96	51451	20.0	20.0	
126 Hexachlorobutadiene	225	8.679	8.684	-0.005	97	36473	20.0	20.2	
127 Caprolactam	113	8.935	8.946	-0.011	77	17136	20.0	19.0	
131 4-Chloro-3-methylphenol	107	9.117	9.122	-0.005	93	51604	20.0	19.8	
133 2-Methylnaphthalene	142	9.357	9.357	0.000	92	123833	20.0	20.6	
252 1-Methylnaphthalene	142	9.475	9.475	0.000	98	118298	20.0	20.9	
136 Hexachlorocyclopentadiene	237	9.555	9.555	0.000	96	42174	20.0	20.2	
138 1,2,4,5-Tetrachlorobenzene	216	9.560	9.560	0.000	98	58349	20.0	20.7	
139 2,4,6-Trichlorophenol	196	9.678	9.678	0.000	96	33795	20.0	19.7	
140 2,4,5-Trichlorophenol	196	9.721	9.726	-0.005	96	35319	20.0	19.8	
144 1,1'-Biphenyl	154	9.897	9.897	0.000	96	148020	20.0	21.0	
143 2-Chloronaphthalene	162	9.934	9.934	0.000	97	118699	20.0	21.0	
145 2-Nitroaniline	65	10.025	10.025	0.000	82	29351	20.0	18.7	
147 Dimethyl phthalate	163	10.212	10.217	-0.005	99	129130	20.0	20.8	
50 1,3-Dinitrobenzene	168	10.255	10.255	0.000	83	14536	20.0	17.4	
148 2,6-Dinitrotoluene	165	10.287	10.287	0.000	94	24792	20.0	19.0	
149 Acenaphthylene	152	10.410	10.410	0.000	98	173320	20.0	21.0	
150 3-Nitroaniline	138	10.479	10.485	-0.006	92	27427	20.0	19.2	
152 2,4-Dinitrophenol	184	10.591	10.597	-0.006	83	18071	40.0	31.8	
151 Acenaphthene	153	10.602	10.602	0.000	96	112934	20.0	20.5	
153 4-Nitrophenol	109	10.634	10.639	-0.005	94	30963	40.0	38.8	
154 2,4-Dinitrotoluene	165	10.736	10.736	0.000	93	31806	20.0	18.8	
155 Dibenzofuran	168	10.784	10.784	0.000	97	166500	20.0	21.0	
158 2,3,4,6-Tetrachlorophenol	232	10.907	10.907	0.000	96	29404	20.0	19.8	
160 Diethyl phthalate	149	10.976	10.976	0.000	98	124192	20.0	20.6	
257 Hexadecane	57	10.987	10.987	0.000	97	94971	20.0	20.8	
162 4-Chlorophenyl phenyl ethe	204	11.126	11.126	0.000	92	65151	20.0	20.3	
164 4-Nitroaniline	138	11.131	11.136	-0.005	82	28356	20.0	18.7	
161 Fluorene	166	11.147	11.147	0.000	94	135009	20.0	20.7	
166 4,6-Dinitro-2-methylphenol	198	11.168	11.174	-0.006	86	30331	40.0	34.5	
169 Diphenylamine	169	11.238	11.238	0.000	97	95749	17.0	17.7	
167 N-Nitrosodiphenylamine	169	11.238	11.238	0.000	98	95749	20.0	20.8	
170 Azobenzene	77	11.286	11.286	0.000	97	143392	20.0	21.3	
168 1,2-Diphenylhydrazine	77	11.286	11.286	0.000	99	143392	20.0	21.3	
176 4-Bromophenyl phenyl ether	248	11.617	11.622	-0.005	95	38935	20.0	20.4	
177 Hexachlorobenzene	284	11.719	11.719	0.000	96	46770	20.0	20.4	
180 Atrazine	200	11.740	11.740	0.000	92	33640	20.0	20.3	
181 Pentachlorophenol	266	11.890	11.895	-0.005	93	45024	40.0	36.7	
263 n-Octadecane	57	11.895	11.900	-0.005	98	92476	20.0	20.9	
185 Phenanthrene	178	12.103	12.103	0.000	96	183570	20.0	20.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
188 Anthracene	178	12.151	12.151	0.000	97	184189	20.0	20.3	
189 Carbazole	167	12.285	12.285	0.000	96	168181	20.0	20.3	
192 Di-n-butyl phthalate	149	12.547	12.547	0.000	100	190120	20.0	19.9	
197 Fluoranthene	202	13.198	13.198	0.000	99	194793	20.0	20.4	
198 Benzidine	184	13.278	13.279	-0.001	99	43153	20.0	18.3	
199 Pyrene	202	13.412	13.417	-0.005	97	200330	20.0	20.6	
205 Butyl benzyl phthalate	149	13.898	13.898	0.000	99	80938	20.0	19.8	
210 Bis(2-ethylhexyl) phthalat	149	14.390	14.390	0.000	97	110105	20.0	19.7	
208 3,3'-Dichlorobenzidine	252	14.432	14.432	0.000	99	63868	20.0	19.1	
209 Benzo[a]anthracene	228	14.502	14.507	-0.005	97	205942	20.0	20.7	
211 Chrysene	228	14.539	14.545	-0.006	97	197624	20.0	20.5	
212 Di-n-octyl phthalate	149	15.020	15.020	0.000	100	180885	20.0	19.3	
213 Benzo[b]fluoranthene	252	15.683	15.683	-0.001	97	208718	20.0	20.5	
214 Benzo[k]fluoranthene	252	15.715	15.715	0.000	98	217578	20.0	20.9	
217 Benzo[a]pyrene	252	16.121	16.121	0.000	97	192625	20.0	20.2	
220 Dibenz(a,h)anthracene	278	17.889	17.889	0.000	77	189075	20.0	18.9	
219 Indeno[1,2,3-cd]pyrene	276	17.889	17.894	-0.005	93	221879	20.0	18.9	
221 Benzo[g,h,i]perylene	276	18.423	18.423	0.000	97	180309	20.0	19.0	
S 78 3-Methylphenol	1				0			20.3	
S 222 Total Cresols	1				0			40.7	
S 77 3 & 4 Methylphenol	108				0			20.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00299

Amount Added: 1.00

Units: mL

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 17-Mar-2016 13:23:09

Chrom Revision: 2.2 04-Mar-2016 14:36:24

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973U\\20160314-51236.b\\U25627.D

Injection Date: 15-Mar-2016 12:04:30

Instrument ID: HP5973U

Operator ID: MKP

Lims ID: IC - List1 20ppm

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

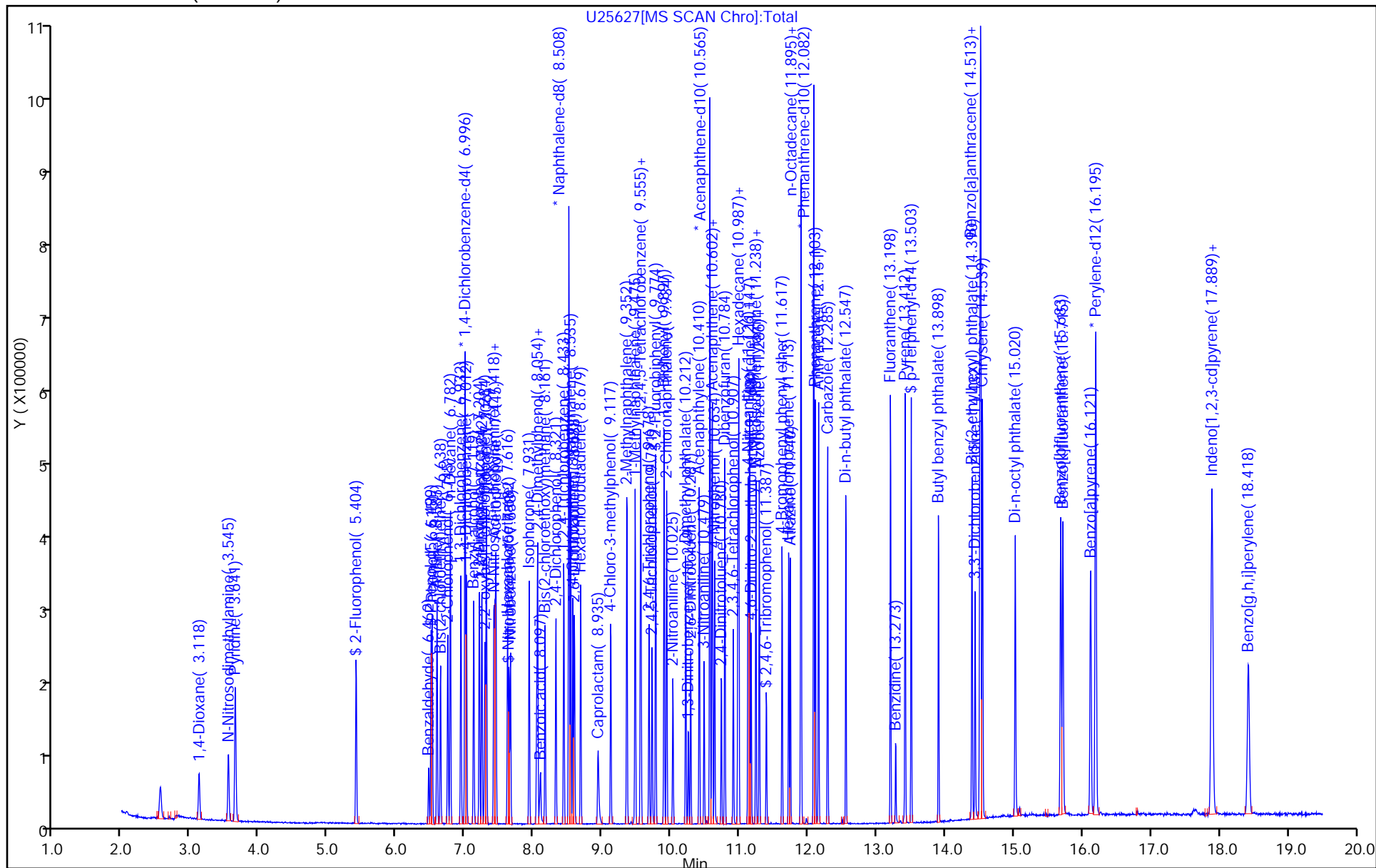
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25627.D

Injection Date: 15-Mar-2016 12:04:30

Instrument ID: HP5973U

Lims ID: IC - List1 20ppm

Client ID:

Operator ID: MKP

ALS Bottle#:

2

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

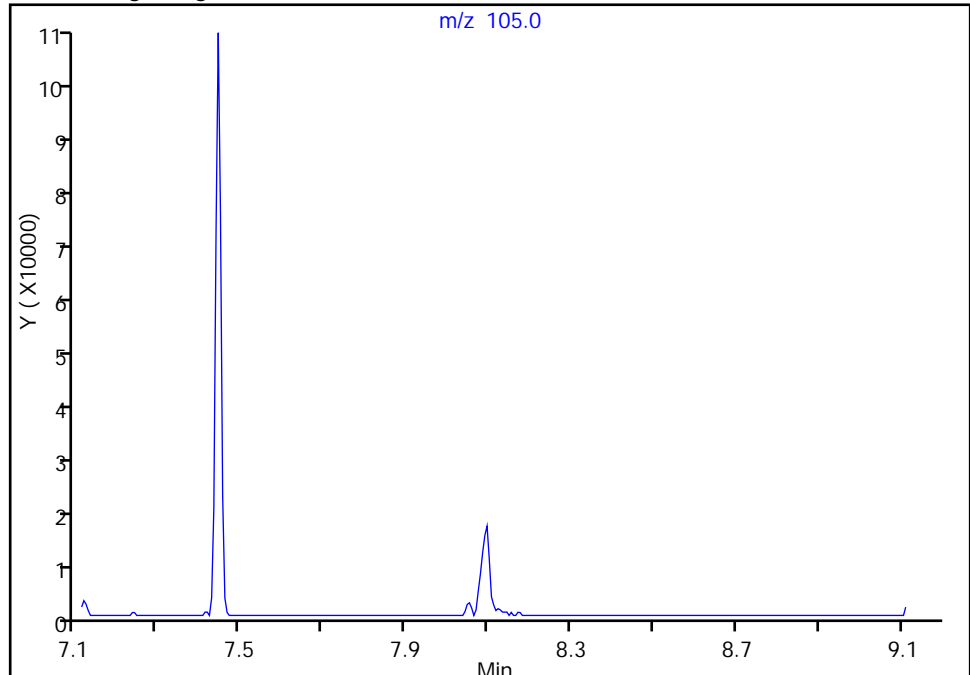
Detector: MS SCAN

119 Benzoic acid, CAS: 65-85-0

Not Detected

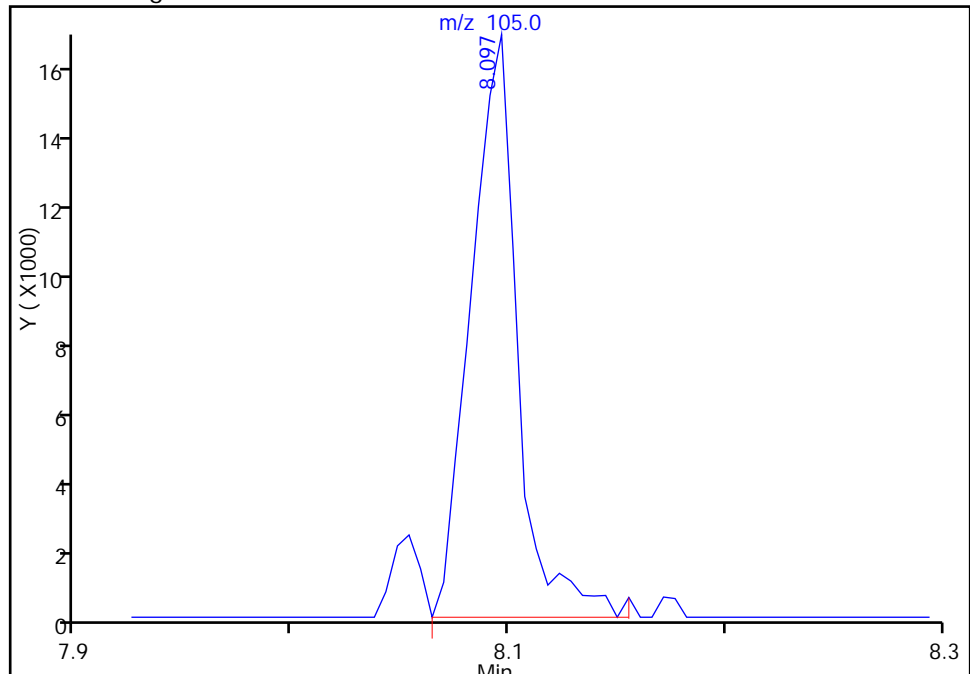
Expected RT: 8.11

Processing Integration Results



RT: 8.10
Area: 24353
Amount: 16.700492
Amount Units: ng/uL

Manual Integration Results



Reviewer: pagem, 16-Mar-2016 10:48:50

Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25628.D
 Lims ID: ICIS - List1 50ppm
 Client ID:
 Sample Type: ICIS Calib Level: 3
 Inject. Date: 15-Mar-2016 12:31:30 ALS Bottle#: 3 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0051236-005
 Misc. Info.: ICIS - LIST1 50PPM
 Operator ID: MKP Instrument ID: HP5973U
 Sublist: chrom-U-8270*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 17-Mar-2016 13:23:11 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: pagem

Date: 17-Mar-2016 13:22:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.996	6.996	0.000	97	94577	40.0	40.0	
* 2 Naphthalene-d8	136	8.508	8.508	0.000	100	378282	40.0	40.0	
* 3 Acenaphthene-d10	164	10.565	10.565	0.000	99	206539	40.0	40.0	
* 4 Phenanthrene-d10	188	12.082	12.082	0.000	98	334923	40.0	40.0	
* 5 Chrysene-d12	240	14.518	14.518	0.000	97	377584	40.0	40.0	
* 6 Perylene-d12	264	16.195	16.195	0.000	97	375432	40.0	40.0	
\$ 9 2-Fluorophenol	112	5.409	5.409	0.000	96	163465	50.0	50.0	
\$ 10 Phenol-d5	99	6.499	6.499	0.000	87	201059	50.0	50.5	
\$ 11 Nitrobenzene-d5	82	7.637	7.637	0.000	96	187928	50.0	49.9	
\$ 12 2-Fluorobiphenyl	172	9.774	9.774	0.000	100	339739	50.0	49.4	
\$ 13 2,4,6-Tribromophenol	330	11.393	11.393	0.000	93	61542	50.0	48.6	
\$ 14 p-Terphenyl-d14	244	13.503	13.503	0.000	99	423185	50.0	51.0	
80 1,4-Dioxane	88	3.128	3.128	0.000	97	76518	50.0	49.5	
81 N-Nitrosodimethylamine	42	3.556	3.556	0.000	90	101876	50.0	49.4	
82 Pyridine	52	3.657	3.657	0.000	92	144453	50.0	49.9	
88 Benzaldehyde	77	6.467	6.467	0.000	93	40117	50.0	49.7	
89 Phenol	94	6.515	6.515	0.000	99	211410	50.0	50.5	
90 Aniline	93	6.590	6.590	0.000	97	258539	50.0	50.6	
91 Bis(2-chloroethyl)ether	93	6.638	6.638	0.000	98	173023	50.0	50.4	
93 2-Chlorophenol	128	6.745	6.745	0.000	98	168486	50.0	50.3	
258 n-Decane	57	6.782	6.782	0.000	97	213551	50.0	50.2	
94 1,3-Dichlorobenzene	146	6.937	6.937	0.000	97	182332	50.0	49.3	
95 1,4-Dichlorobenzene	146	7.017	7.017	0.000	92	184648	50.0	49.8	
96 Benzyl alcohol	108	7.124	7.124	0.000	92	108898	50.0	51.0	
97 1,2-Dichlorobenzene	146	7.204	7.204	0.000	95	174083	50.0	50.0	
98 2-Methylphenol	108	7.242	7.242	0.000	97	152513	50.0	51.2	
99 2,2'-oxybis[1-chloropropan	45	7.285	7.285	0.000	94	240240	50.0	50.3	
249 Indene	115	7.306	7.306	0.000	97	299960	50.0	50.3	
102 4-Methylphenol	108	7.418	7.418	0.000	95	158926	50.0	50.8	
101 N-Nitrosodi-n-propylamine	70	7.434	7.434	0.000	91	125280	50.0	52.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
104 Acetophenone	105	7.445	7.445	0.000	95	231099	50.0	51.2	
106 Hexachloroethane	117	7.616	7.616	0.000	96	74327	50.0	50.8	
107 Nitrobenzene	77	7.658	7.658	0.000	89	171981	50.0	49.5	
110 Isophorone	82	7.931	7.931	0.000	99	316562	50.0	51.0	
111 2-Nitrophenol	139	8.043	8.043	0.000	96	75663	50.0	47.1	
112 2,4-Dimethylphenol	107	8.054	8.054	0.000	95	165882	50.0	50.2	
119 Benzoic acid	105	8.113	8.113	0.000	87	80898	50.0	44.8	M
115 Bis(2-chloroethoxy)methane	93	8.161	8.161	0.000	99	198148	50.0	49.9	
117 2,4-Dichlorophenol	162	8.321	8.321	0.000	95	131877	50.0	50.7	
120 1,2,4-Trichlorobenzene	180	8.438	8.438	0.000	94	148778	50.0	49.6	
121 Naphthalene	128	8.535	8.535	0.000	98	472129	50.0	49.5	
123 4-Chloroaniline	127	8.567	8.567	0.000	97	205983	50.0	50.7	
124 2,6-Dichlorophenol	162	8.588	8.588	0.000	97	130876	50.0	50.2	
126 Hexachlorobutadiene	225	8.684	8.684	0.000	96	90938	50.0	49.6	
127 Caprolactam	113	8.946	8.946	0.000	79	47483	50.0	48.4	
131 4-Chloro-3-methylphenol	107	9.122	9.122	0.000	93	137043	50.0	51.8	
133 2-Methylnaphthalene	142	9.357	9.357	0.000	92	306737	50.0	50.2	
252 1-Methylnaphthalene	142	9.475	9.475	0.000	97	286054	50.0	49.7	
136 Hexachlorocyclopentadiene	237	9.555	9.555	0.000	96	107984	50.0	47.3	
138 1,2,4,5-Tetrachlorobenzene	216	9.560	9.560	0.000	98	146329	50.0	49.3	
139 2,4,6-Trichlorophenol	196	9.678	9.678	0.000	96	92470	50.0	48.8	
140 2,4,5-Trichlorophenol	196	9.726	9.726	0.000	95	95173	50.0	48.3	
144 1,1'-Biphenyl	154	9.897	9.897	0.000	96	365695	50.0	49.4	
143 2-Chloronaphthalene	162	9.934	9.934	0.000	97	296436	50.0	49.8	
145 2-Nitroaniline	65	10.025	10.025	0.000	83	85371	50.0	47.6	
147 Dimethyl phthalate	163	10.217	10.217	0.000	99	326466	50.0	50.0	
50 1,3-Dinitrobenzene	168	10.255	10.255	0.000	84	43324	50.0	44.8	
148 2,6-Dinitrotoluene	165	10.287	10.287	0.000	95	71638	50.0	48.0	
149 Acenaphthylene	152	10.410	10.410	0.000	99	435109	50.0	50.0	
150 3-Nitroaniline	138	10.485	10.485	0.000	92	76932	50.0	47.1	
152 2,4-Dinitrophenol	184	10.597	10.597	0.000	83	63235	100.0	84.7	
151 Acenaphthene	153	10.602	10.602	0.000	94	288148	50.0	49.7	
153 4-Nitrophenol	109	10.639	10.639	0.000	93	86731	100.0	96.3	
154 2,4-Dinitrotoluene	165	10.736	10.736	0.000	93	92145	50.0	47.1	
155 Dibenzofuran	168	10.784	10.784	0.000	96	412937	50.0	49.5	
158 2,3,4,6-Tetrachlorophenol	232	10.907	10.907	0.000	97	78609	50.0	47.2	
160 Diethyl phthalate	149	10.976	10.976	0.000	98	321667	50.0	50.7	
257 Hexadecane	57	10.987	10.987	0.000	97	241953	50.0	50.4	
162 4-Chlorophenyl phenyl ethe	204	11.126	11.126	0.000	90	169454	50.0	50.1	
164 4-Nitroaniline	138	11.136	11.136	0.000	83	81865	50.0	47.4	
161 Fluorene	166	11.147	11.147	0.000	94	338513	50.0	49.4	
166 4,6-Dinitro-2-methylphenol	198	11.174	11.174	0.000	86	99172	100.0	90.2	
169 Diphenylamine	169	11.238	11.238	0.000	96	243103	42.5	42.4	
167 N-Nitrosodiphenylamine	169	11.238	11.238	0.000	98	243103	50.0	49.9	
170 Azobenzene	77	11.286	11.286	0.000	98	356819	50.0	50.0	
168 1,2-Diphenylhydrazine	77	11.286	11.286	0.000	99	356819	50.0	50.0	
176 4-Bromophenyl phenyl ether	248	11.622	11.622	0.000	95	100919	50.0	49.9	
177 Hexachlorobenzene	284	11.719	11.719	0.000	96	121563	50.0	50.2	
180 Atrazine	200	11.740	11.740	0.000	92	89181	50.0	51.2	
181 Pentachlorophenol	266	11.895	11.895	0.000	94	137355	100.0	95.3	
263 n-Octadecane	57	11.900	11.900	0.000	98	243107	50.0	51.9	
185 Phenanthrene	178	12.103	12.103	0.000	97	467851	50.0	50.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
188 Anthracene	178	12.151	12.151	0.000	97	489008	50.0	50.9	
189 Carbazole	167	12.285	12.285	0.000	96	449100	50.0	51.2	
192 Di-n-butyl phthalate	149	12.547	12.547	0.000	100	528369	50.0	52.2	
197 Fluoranthene	202	13.198	13.198	0.000	98	522809	50.0	51.7	
198 Benzidine	184	13.279	13.279	0.000	99	132234	50.0	46.7	
199 Pyrene	202	13.417	13.417	0.000	97	535558	50.0	50.8	
205 Butyl benzyl phthalate	149	13.898	13.898	0.000	99	233263	50.0	50.1	
210 Bis(2-ethylhexyl) phthalat	149	14.390	14.390	0.000	97	318034	50.0	52.3	
208 3,3'-Dichlorobenzidine	252	14.432	14.432	0.000	99	182740	50.0	47.5	
209 Benzo[a]anthracene	228	14.507	14.507	0.000	98	544761	50.0	50.5	
211 Chrysene	228	14.545	14.545	0.000	97	520081	50.0	49.8	
212 Di-n-octyl phthalate	149	15.020	15.020	0.000	100	528332	50.0	48.7	
213 Benzo[b]fluoranthene	252	15.683	15.683	0.000	97	537817	50.0	48.9	
214 Benzo[k]fluoranthene	252	15.715	15.715	0.000	98	578319	50.0	51.3	
217 Benzo[a]pyrene	252	16.121	16.121	0.000	97	517276	50.0	50.3	
220 Dibenz(a,h)anthracene	278	17.889	17.889	0.000	87	521443	50.0	45.3	
219 Indeno[1,2,3-cd]pyrene	276	17.894	17.894	0.000	98	612040	50.0	45.3	
221 Benzo[g,h,i]perylene	276	18.423	18.423	0.000	97	487481	50.0	45.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00304

Amount Added: 1.00

Units: mL

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

Chrom Revision: 2.2 04-Mar-2016 14:36:24

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25628.D

Injection Date: 15-Mar-2016 12:31:30

Instrument ID: HP5973U

Operator ID: MKP

Lims ID: ICIS - List1 50ppm

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

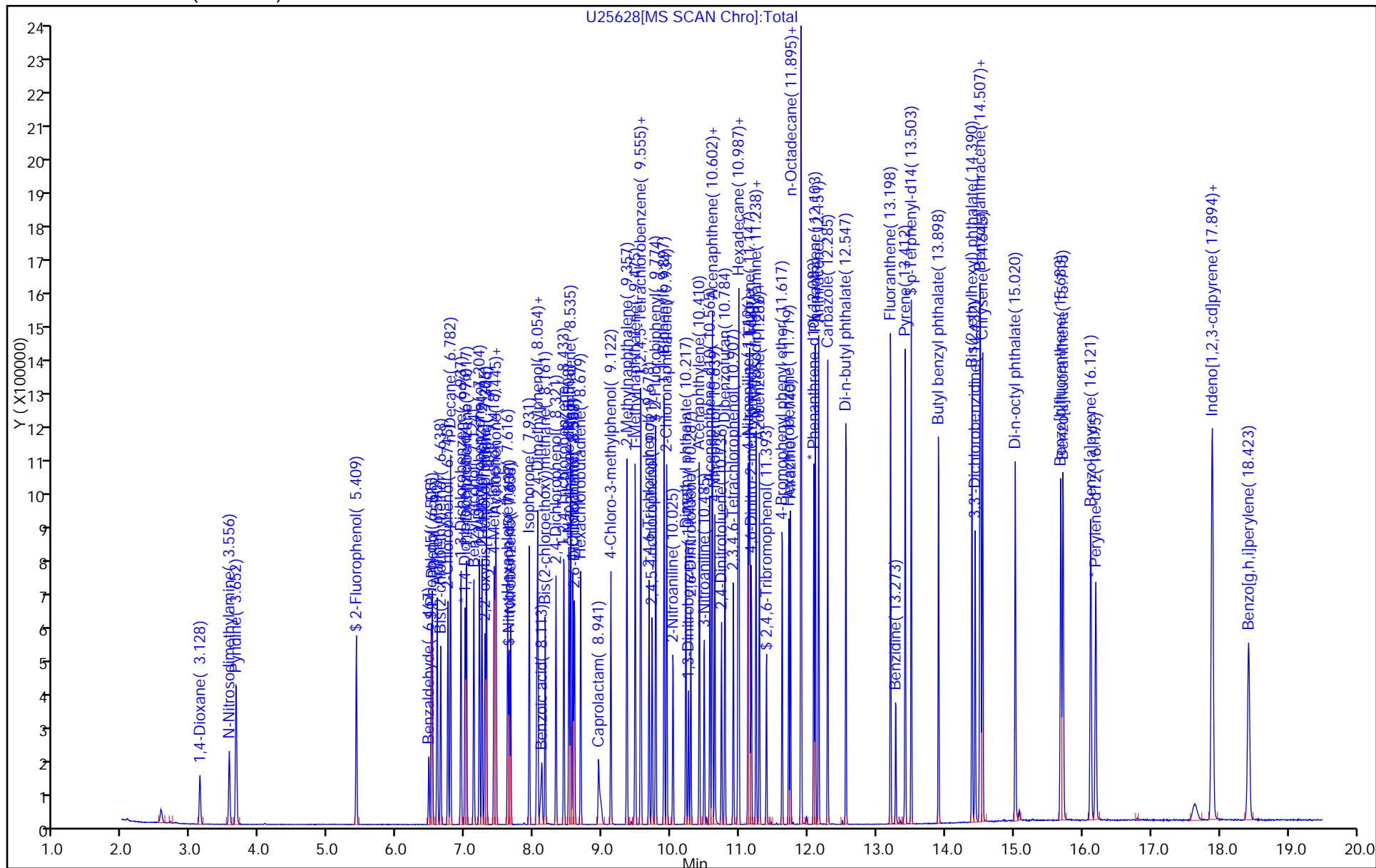
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25628.D

Injection Date: 15-Mar-2016 12:31:30

Instrument ID: HP5973U

Lims ID: ICIS - List1 50ppm

Client ID:

Operator ID: MKP

ALS Bottle#:

3

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

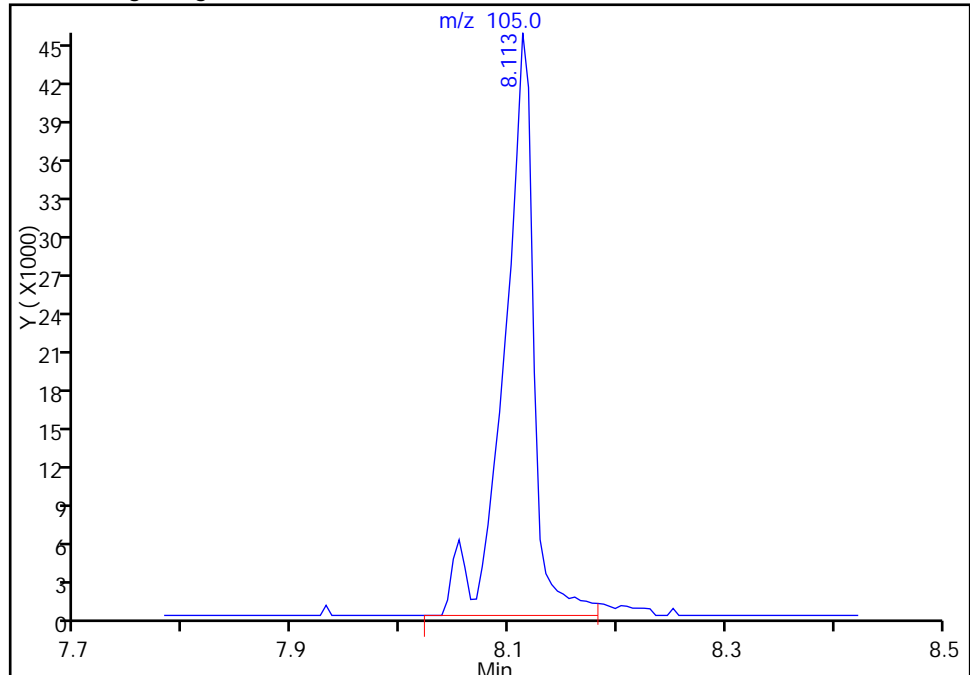
Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

119 Benzoic acid, CAS: 65-85-0

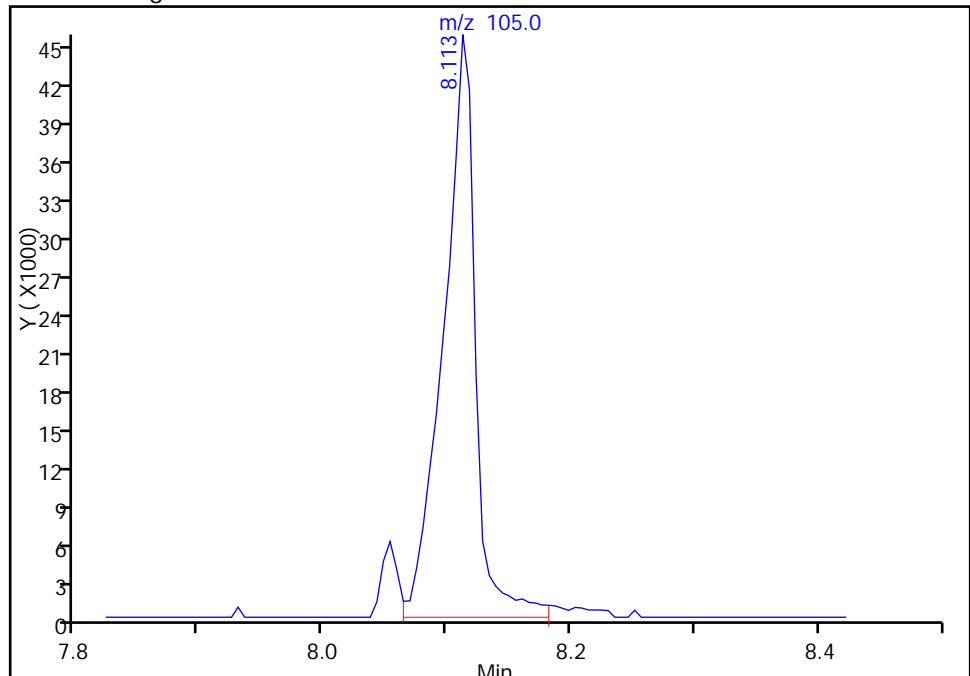
RT: 8.11
Area: 85770
Amount: 44.959823
Amount Units: ng/uL

Processing Integration Results



RT: 8.11
Area: 80898
Amount: 44.789046
Amount Units: ng/uL

Manual Integration Results



Reviewer: pagem, 16-Mar-2016 10:46:37

Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25629.D
 Lims ID: IC - List1 80ppm
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 15-Mar-2016 12:57:30 ALS Bottle#: 4 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0051236-006
 Misc. Info.: IC - LIST1 80PPM
 Operator ID: MKP Instrument ID: HP5973U
 Sublist: chrom-U-8270*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 17-Mar-2016 13:23:16 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: pagem

Date: 15-Mar-2016 14:50:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.996	6.996	0.000	97	100865	40.0	40.0	
* 2 Naphthalene-d8	136	8.508	8.508	0.000	99	407325	40.0	40.0	
* 3 Acenaphthene-d10	164	10.565	10.565	0.000	99	222653	40.0	40.0	
* 4 Phenanthrene-d10	188	12.082	12.082	0.000	99	357154	40.0	40.0	
* 5 Chrysene-d12	240	14.518	14.518	0.000	97	394666	40.0	40.0	
* 6 Perylene-d12	264	16.196	16.195	0.001	97	394343	40.0	40.0	
\$ 9 2-Fluorophenol	112	5.410	5.409	0.001	96	289447	80.0	83.0	
\$ 10 Phenol-d5	99	6.505	6.499	0.006	88	358040	80.0	84.3	
\$ 11 Nitrobenzene-d5	82	7.637	7.637	0.000	96	338736	80.0	83.6	
\$ 12 2-Fluorobiphenyl	172	9.774	9.774	0.000	99	597025	80.0	80.5	
\$ 13 2,4,6-Tribromophenol	330	11.393	11.393	0.000	93	112732	80.0	82.0	
\$ 14 p-Terphenyl-d14	244	13.503	13.503	0.000	99	718972	80.0	82.8	
80 1,4-Dioxane	88	3.128	3.128	0.000	98	129052	80.0	78.3	
81 N-Nitrosodimethylamine	42	3.561	3.556	0.005	90	178410	80.0	81.2	
82 Pyridine	52	3.657	3.657	0.000	92	254050	80.0	82.2	
88 Benzaldehyde	77	6.467	6.467	0.000	94	70468	80.0	81.9	
89 Phenol	94	6.521	6.515	0.006	98	373618	80.0	83.7	
90 Aniline	93	6.590	6.590	0.000	97	457746	80.0	84.1	
91 Bis(2-chloroethyl)ether	93	6.638	6.638	0.000	98	303262	80.0	82.8	
93 2-Chlorophenol	128	6.745	6.745	0.000	97	303404	80.0	85.0	
258 n-Decane	57	6.783	6.782	0.001	98	368334	80.0	81.2	
94 1,3-Dichlorobenzene	146	6.938	6.937	0.001	97	317036	80.0	80.4	
95 1,4-Dichlorobenzene	146	7.018	7.017	0.001	92	318985	80.0	80.7	
96 Benzyl alcohol	108	7.124	7.124	0.000	92	196384	80.0	86.3	
97 1,2-Dichlorobenzene	146	7.205	7.204	0.001	95	300867	80.0	81.1	
98 2-Methylphenol	108	7.242	7.242	0.000	97	268405	80.0	84.5	
99 2,2'-oxybis[1-chloropropan	45	7.290	7.285	0.005	94	421449	80.0	82.7	
249 Indene	115	7.306	7.306	0.000	96	522517	80.0	82.1	
102 4-Methylphenol	108	7.418	7.418	0.000	97	281498	80.0	84.4	
101 N-Nitrosodi-n-propylamine	70	7.434	7.434	0.000	89	219525	80.0	85.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
104 Acetophenone	105	7.450	7.445	0.005	96	403975	80.0	84.0	
106 Hexachloroethane	117	7.616	7.616	0.000	96	126833	80.0	81.2	
107 Nitrobenzene	77	7.659	7.658	0.001	88	306523	80.0	81.9	
110 Isophorone	82	7.931	7.931	0.000	99	559893	80.0	83.7	
111 2-Nitrophenol	139	8.043	8.043	0.000	96	140614	80.0	79.7	
112 2,4-Dimethylphenol	107	8.054	8.054	0.000	96	295139	80.0	83.0	
119 Benzoic acid	105	8.134	8.113	0.021	89	166952	80.0	81.9	M
115 Bis(2-chloroethoxy)methane	93	8.166	8.161	0.005	99	350620	80.0	81.9	
117 2,4-Dichlorophenol	162	8.321	8.321	0.000	95	237348	80.0	84.7	
120 1,2,4-Trichlorobenzene	180	8.439	8.438	0.001	94	262545	80.0	81.2	
121 Naphthalene	128	8.535	8.535	0.000	98	818375	80.0	79.6	
123 4-Chloroaniline	127	8.572	8.567	0.005	96	364216	80.0	83.2	
124 2,6-Dichlorophenol	162	8.594	8.588	0.006	97	233148	80.0	83.0	
126 Hexachlorobutadiene	225	8.679	8.684	-0.005	96	159056	80.0	80.5	
127 Caprolactam	113	8.952	8.946	0.006	79	88618	80.0	82.3	M
131 4-Chloro-3-methylphenol	107	9.122	9.122	0.000	93	240842	80.0	84.6	
133 2-Methylnaphthalene	142	9.358	9.357	0.001	92	538808	80.0	81.9	
252 1-Methylnaphthalene	142	9.475	9.475	0.000	97	504666	80.0	81.4	
136 Hexachlorocyclopentadiene	237	9.555	9.555	0.000	95	198442	80.0	79.8	
138 1,2,4,5-Tetrachlorobenzene	216	9.561	9.560	0.001	98	256999	80.0	80.3	
139 2,4,6-Trichlorophenol	196	9.678	9.678	0.000	96	167096	80.0	80.7	
140 2,4,5-Trichlorophenol	196	9.726	9.726	0.000	95	174055	80.0	80.9	
144 1,1'-Biphenyl	154	9.897	9.897	0.000	96	635925	80.0	79.7	
143 2-Chloronaphthalene	162	9.940	9.934	0.006	97	510321	80.0	79.5	
145 2-Nitroaniline	65	10.031	10.025	0.006	83	159326	80.0	80.8	
147 Dimethyl phthalate	163	10.218	10.217	0.001	99	573784	80.0	81.5	
50 1,3-Dinitrobenzene	168	10.255	10.255	0.000	85	87758	80.0	81.5	
148 2,6-Dinitrotoluene	165	10.287	10.287	0.000	95	131183	80.0	80.0	
149 Acenaphthylene	152	10.415	10.410	0.005	98	757016	80.0	80.7	
150 3-Nitroaniline	138	10.485	10.485	0.000	93	142190	80.0	79.1	
152 2,4-Dinitrophenol	184	10.597	10.597	0.000	84	132527	160.0	156.1	
151 Acenaphthene	153	10.602	10.602	0.000	94	505653	80.0	80.9	
153 4-Nitrophenol	109	10.640	10.639	0.001	94	156269	160.0	158.2	
154 2,4-Dinitrotoluene	165	10.736	10.736	0.000	94	173961	80.0	80.4	
155 Dibenzofuran	168	10.784	10.784	0.000	96	719065	80.0	80.0	
158 2,3,4,6-Tetrachlorophenol	232	10.907	10.907	0.000	97	146790	80.0	80.3	
160 Diethyl phthalate	149	10.976	10.976	0.000	98	555840	80.0	81.3	
257 Hexadecane	57	10.987	10.987	0.000	97	421053	80.0	81.4	
162 4-Chlorophenyl phenyl ethe	204	11.126	11.126	0.000	90	295542	80.0	81.1	
164 4-Nitroaniline	138	11.142	11.136	0.006	86	149743	80.0	78.7	
161 Fluorene	166	11.147	11.147	0.000	94	596352	80.0	80.7	
166 4,6-Dinitro-2-methylphenol	198	11.174	11.174	0.000	87	196819	160.0	161.0	
169 Diphenylamine	169	11.238	11.238	0.000	97	433704	68.1	71.0	
167 N-Nitrosodiphenylamine	169	11.238	11.238	0.000	98	433704	80.0	83.4	
170 Azobenzene	77	11.286	11.286	0.000	98	624356	80.0	82.1	
168 1,2-Diphenylhydrazine	77	11.286	11.286	0.000	99	624356	80.0	82.1	
176 4-Bromophenyl phenyl ether	248	11.623	11.622	0.001	94	180112	80.0	83.5	
177 Hexachlorobenzene	284	11.719	11.719	0.000	97	211304	80.0	81.8	
180 Atrazine	200	11.746	11.740	0.006	93	155214	80.0	82.7	
181 Pentachlorophenol	266	11.895	11.895	0.000	94	252286	160.0	160.1	
263 n-Octadecane	57	11.900	11.900	0.000	98	418954	80.0	83.8	
185 Phenanthrene	178	12.103	12.103	0.000	97	807443	80.0	81.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
188 Anthracene	178	12.152	12.151	0.001	97	844382	80.0	82.4	
189 Carbazole	167	12.285	12.285	0.000	96	766649	80.0	81.9	
192 Di-n-butyl phthalate	149	12.552	12.547	0.005	100	904510	80.0	83.8	
197 Fluoranthene	202	13.204	13.198	0.006	98	883983	80.0	82.0	
198 Benzidine	184	13.279	13.279	0.000	99	245438	80.0	80.7	
199 Pyrene	202	13.418	13.417	0.001	96	912046	80.0	82.8	
205 Butyl benzyl phthalate	149	13.898	13.898	0.000	99	401362	80.0	81.5	
210 Bis(2-ethylhexyl) phthalat	149	14.390	14.390	0.000	97	549082	80.0	86.4	
208 3,3'-Dichlorobenzidine	252	14.438	14.432	0.006	99	324986	80.0	79.5	
209 Benzo[a]anthracene	228	14.507	14.507	0.000	98	924123	80.0	81.9	
211 Chrysene	228	14.545	14.545	0.000	97	874159	80.0	80.0	
212 Di-n-octyl phthalate	149	15.020	15.020	0.000	100	928817	80.0	80.5	
213 Benzo[b]fluoranthene	252	15.688	15.683	0.005	97	993120	80.0	86.0	
214 Benzo[k]fluoranthene	252	15.720	15.715	0.005	98	958645	80.0	80.9	
217 Benzo[a]pyrene	252	16.121	16.121	0.000	97	904128	80.0	83.6	
220 Dibenz(a,h)anthracene	278	17.900	17.889	0.011	90	961614	80.0	78.1	
219 Indeno[1,2,3-cd]pyrene	276	17.905	17.894	0.011	97	1118882	80.0	77.5	
221 Benzo[g,h,i]perylene	276	18.429	18.423	0.006	97	898007	80.0	77.7	
S 78 3-Methylphenol	1				0			84.4	
S 222 Total Cresols	1				0			168.9	
S 77 3 & 4 Methylphenol	108				0			84.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00301

Amount Added: 1.00

Units: mL

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25629.D

Injection Date: 15-Mar-2016 12:57:30

Instrument ID: HP5973U

Operator ID: MKP

Lims ID: IC - List1 80ppm

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

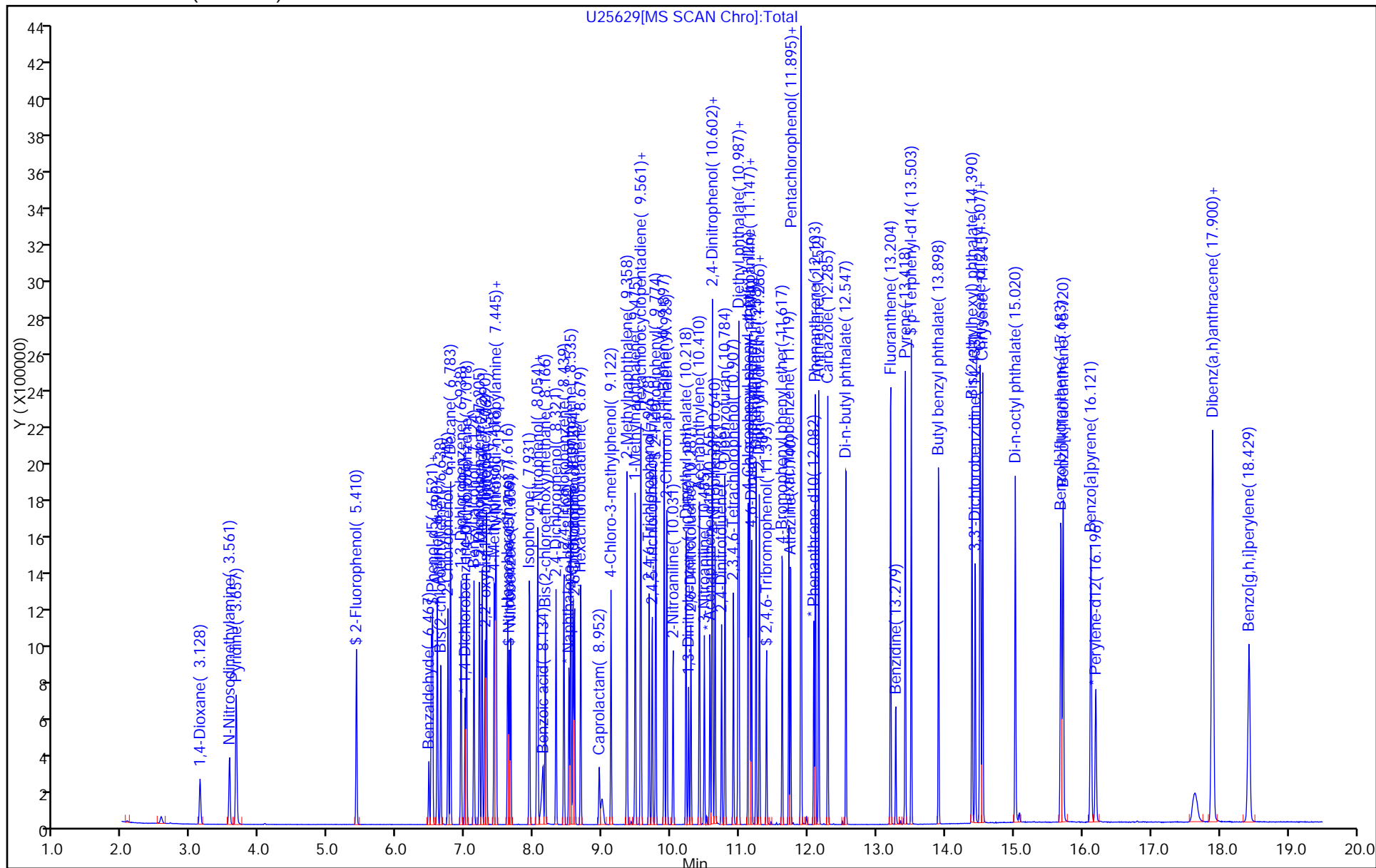
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25629.D

Injection Date: 15-Mar-2016 12:57:30

Instrument ID: HP5973U

Lims ID: IC - List1 80ppm

Client ID:

Operator ID: MKP

ALS Bottle#:

4

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

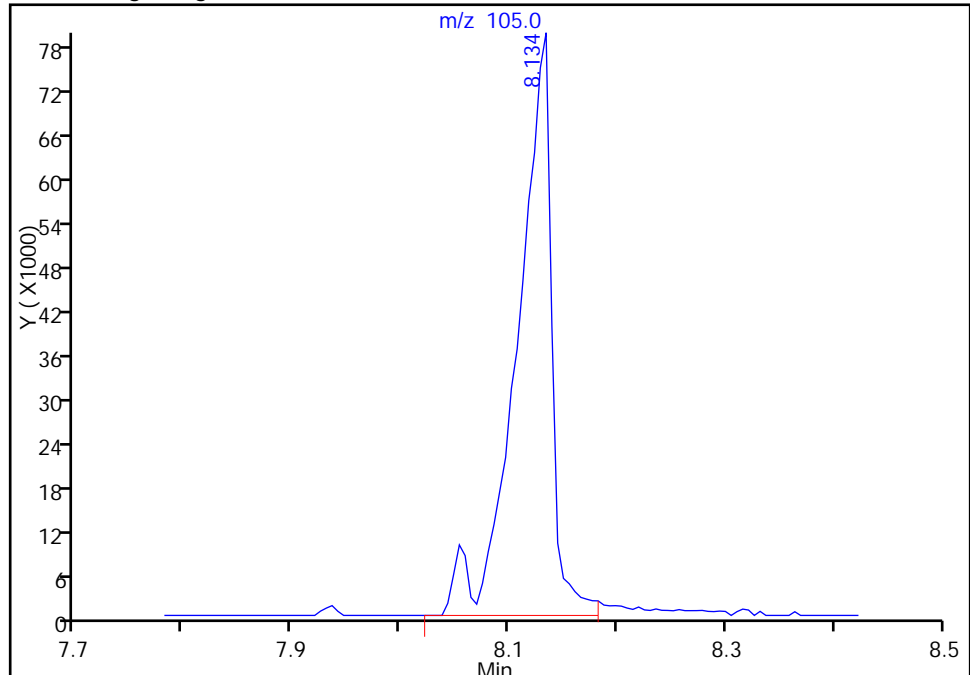
Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

119 Benzoic acid, CAS: 65-85-0

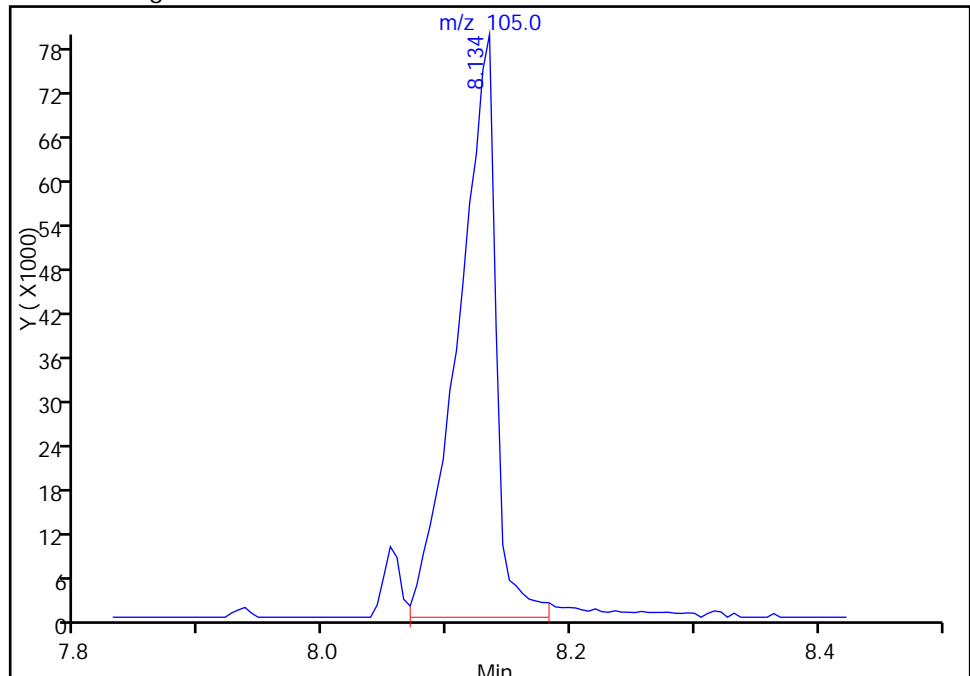
RT: 8.13
Area: 175720
Amount: 82.269688
Amount Units: ng/uL

Processing Integration Results



RT: 8.13
Area: 166952
Amount: 81.864166
Amount Units: ng/uL

Manual Integration Results



Reviewer: pagem, 16-Mar-2016 10:49:43

Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25629.D

Injection Date: 15-Mar-2016 12:57:30

Instrument ID: HP5973U

Lims ID: IC - List1 80ppm

Client ID:

Operator ID: MKP

ALS Bottle#:

4

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

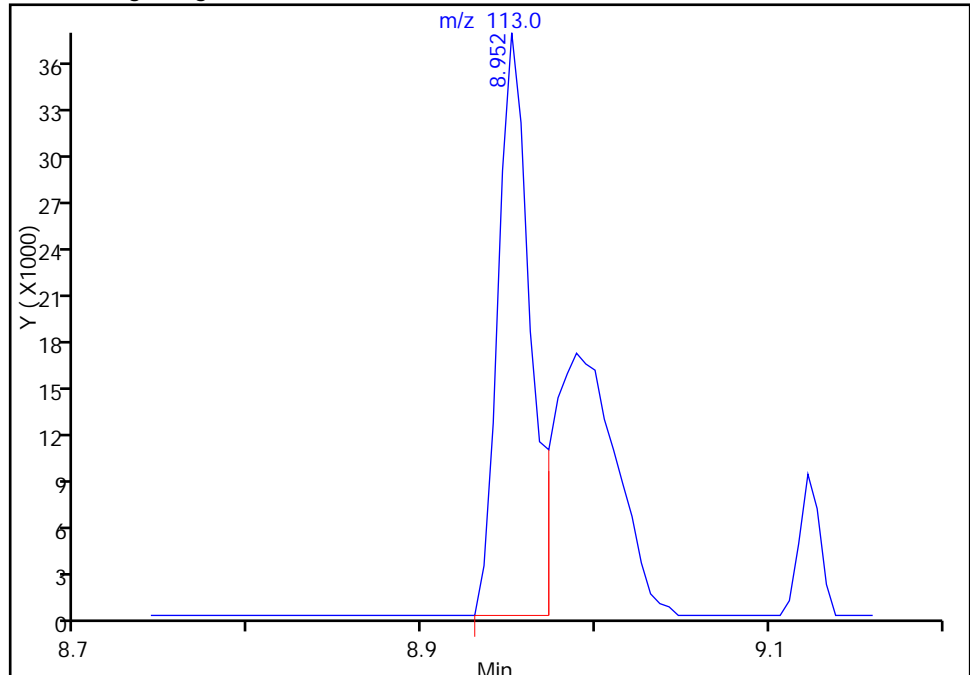
Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

127 Caprolactam, CAS: 105-60-2

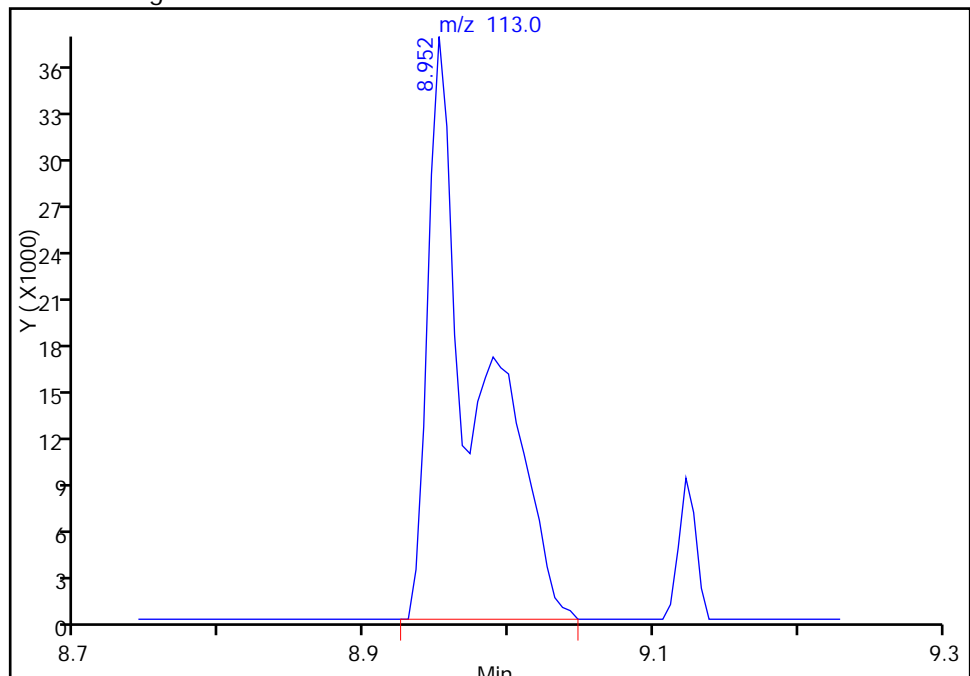
RT: 8.95
Area: 49290
Amount: 67.328667
Amount Units: ng/uL

Processing Integration Results



RT: 8.95
Area: 88618
Amount: 82.327472
Amount Units: ng/uL

Manual Integration Results



Reviewer: pagem, 15-Mar-2016 14:50:09

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25630.D
 Lims ID: IC - List1 100ppm
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 15-Mar-2016 13:24:30 ALS Bottle#: 5 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0051236-007
 Misc. Info.: IC - LIST1 100PPM
 Operator ID: MKP Instrument ID: HP5973U
 Sublist: chrom-U-8270*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 17-Mar-2016 13:23:21 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: pagem

Date: 15-Mar-2016 14:50:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.996	6.996	0.000	97	100355	40.0	40.0	
* 2 Naphthalene-d8	136	8.513	8.508	0.005	99	389850	40.0	40.0	
* 3 Acenaphthene-d10	164	10.565	10.565	0.000	98	207608	40.0	40.0	
* 4 Phenanthrene-d10	188	12.082	12.082	0.000	98	339183	40.0	40.0	
* 5 Chrysene-d12	240	14.518	14.518	0.000	97	381003	40.0	40.0	
* 6 Perylene-d12	264	16.195	16.195	0.000	97	392133	40.0	40.0	
\$ 9 2-Fluorophenol	112	5.409	5.409	0.000	96	355943	100.0	102.6	
\$ 10 Phenol-d5	99	6.505	6.499	0.005	87	434450	100.0	102.8	
\$ 11 Nitrobenzene-d5	82	7.637	7.637	0.000	96	415647	100.0	107.2	
\$ 12 2-Fluorobiphenyl	172	9.779	9.774	0.005	100	704479	100.0	101.9	
\$ 13 2,4,6-Tribromophenol	330	11.393	11.393	0.000	92	132661	100.0	101.1	
\$ 14 p-Terphenyl-d14	244	13.503	13.503	0.000	99	854581	100.0	102.0	
80 1,4-Dioxane	88	3.123	3.128	-0.005	98	162618	100.0	99.1	
81 N-Nitrosodimethylamine	42	3.556	3.556	0.000	91	216540	100.0	99.0	
82 Pyridine	52	3.652	3.657	-0.005	92	311851	100.0	101.4	
88 Benzaldehyde	77	6.467	6.467	0.000	93	86648	100.0	101.2	
89 Phenol	94	6.521	6.515	0.006	98	451528	100.0	101.7	
90 Aniline	93	6.590	6.590	0.000	97	555168	100.0	102.5	
91 Bis(2-chloroethyl)ether	93	6.643	6.638	0.005	98	363837	100.0	99.8	
93 2-Chlorophenol	128	6.745	6.745	0.000	97	366432	100.0	103.2	
258 n-Decane	57	6.782	6.782	0.000	98	457302	100.0	101.3	
94 1,3-Dichlorobenzene	146	6.937	6.937	0.000	96	388405	100.0	99.0	
95 1,4-Dichlorobenzene	146	7.017	7.017	0.000	92	389881	100.0	99.1	
96 Benzyl alcohol	108	7.124	7.124	0.000	92	235842	100.0	104.2	
97 1,2-Dichlorobenzene	146	7.204	7.204	0.000	95	369801	100.0	100.2	
98 2-Methylphenol	108	7.242	7.242	0.000	97	326263	100.0	103.3	
99 2,2'-oxybis[1-chloropropan	45	7.290	7.285	0.005	94	511189	100.0	100.8	
249 Indene	115	7.306	7.306	0.000	96	633755	100.0	100.1	
102 4-Methylphenol	108	7.423	7.418	0.005	96	343063	100.0	103.4	
101 N-Nitrosodi-n-propylamine	70	7.434	7.434	0.000	91	267271	100.0	104.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
104 Acetophenone	105	7.450	7.445	0.005	96	484233	100.0	101.2	
106 Hexachloroethane	117	7.616	7.616	0.000	97	159782	100.0	102.9	
107 Nitrobenzene	77	7.658	7.658	0.000	88	374205	100.0	104.5	
110 Isophorone	82	7.936	7.931	0.005	99	665389	100.0	104.0	
111 2-Nitrophenol	139	8.043	8.043	0.000	96	175540	100.0	103.2	
112 2,4-Dimethylphenol	107	8.054	8.054	0.000	96	351266	100.0	103.2	
119 Benzoic acid	105	8.139	8.113	0.026	88	210166	100.0	106.3	M
115 Bis(2-chloroethoxy)methane	93	8.166	8.161	0.005	99	417693	100.0	102.0	
117 2,4-Dichlorophenol	162	8.321	8.321	0.000	95	284144	100.0	106.0	
120 1,2,4-Trichlorobenzene	180	8.438	8.438	0.000	94	314649	100.0	101.7	
121 Naphthalene	128	8.535	8.535	0.000	98	983210	100.0	100.0	
123 4-Chloroaniline	127	8.572	8.567	0.005	96	434050	100.0	103.6	
124 2,6-Dichlorophenol	162	8.593	8.588	0.005	97	279899	100.0	104.1	
126 Hexachlorobutadiene	225	8.684	8.684	0.000	96	192750	100.0	101.9	
127 Caprolactam	113	8.957	8.946	0.011	78	105318	100.0	101.7	M
131 4-Chloro-3-methylphenol	107	9.122	9.122	0.000	93	288172	100.0	105.7	
133 2-Methylnaphthalene	142	9.357	9.357	0.000	92	642051	100.0	102.0	
252 1-Methylnaphthalene	142	9.480	9.475	0.005	97	602057	100.0	101.5	
136 Hexachlorocyclopentadiene	237	9.555	9.555	0.000	97	237984	100.0	102.2	
138 1,2,4,5-Tetrachlorobenzene	216	9.560	9.560	0.000	98	310412	100.0	104.0	
139 2,4,6-Trichlorophenol	196	9.678	9.678	0.000	96	197776	100.0	102.0	
140 2,4,5-Trichlorophenol	196	9.726	9.726	0.000	95	206026	100.0	102.3	
144 1,1'-Biphenyl	154	9.902	9.897	0.005	96	757932	100.0	101.9	
143 2-Chloronaphthalene	162	9.940	9.934	0.006	97	606774	100.0	101.4	
145 2-Nitroaniline	65	10.030	10.025	0.005	83	190002	100.0	102.7	
147 Dimethyl phthalate	163	10.217	10.217	0.000	99	671081	100.0	102.2	
50 1,3-Dinitrobenzene	168	10.255	10.255	0.000	85	107302	100.0	103.2	
148 2,6-Dinitrotoluene	165	10.292	10.287	0.005	95	155572	100.0	101.1	
149 Acenaphthylene	152	10.415	10.410	0.005	98	891226	100.0	102.0	
150 3-Nitroaniline	138	10.484	10.485	-0.001	93	171985	100.0	101.9	
152 2,4-Dinitrophenol	184	10.597	10.597	0.000	84	167806	200.0	208.7	
151 Acenaphthene	153	10.602	10.602	0.000	93	594542	100.0	102.0	
153 4-Nitrophenol	109	10.645	10.639	0.006	93	187635	200.0	202.5	
154 2,4-Dinitrotoluene	165	10.736	10.736	0.000	93	204200	100.0	100.6	
155 Dibenzofuran	168	10.789	10.784	0.005	96	845662	100.0	100.9	
158 2,3,4,6-Tetrachlorophenol	232	10.912	10.907	0.005	97	174735	100.0	101.9	
160 Diethyl phthalate	149	10.976	10.976	0.000	98	652734	100.0	102.4	
257 Hexadecane	57	10.987	10.987	0.000	97	499215	100.0	103.5	
162 4-Chlorophenyl phenyl ethe	204	11.126	11.126	0.000	92	343481	100.0	101.1	
164 4-Nitroaniline	138	11.142	11.136	0.006	86	178613	100.0	100.1	
161 Fluorene	166	11.147	11.147	0.000	94	699243	100.0	101.5	
166 4,6-Dinitro-2-methylphenol	198	11.174	11.174	0.000	87	240395	200.0	204.8	
169 Diphenylamine	169	11.238	11.238	0.000	97	506562	85.1	87.3	
167 N-Nitrosodiphenylamine	169	11.238	11.238	0.000	98	506562	100.0	102.6	
170 Azobenzene	77	11.286	11.286	0.000	98	729061	100.0	100.9	
168 1,2-Diphenylhydrazine	77	11.286	11.286	0.000	99	729061	100.0	100.9	
176 4-Bromophenyl phenyl ether	248	11.622	11.622	0.000	95	213091	100.0	104.1	
177 Hexachlorobenzene	284	11.719	11.719	0.000	97	250382	100.0	102.1	
180 Atrazine	200	11.745	11.740	0.005	93	180292	100.0	103.0	
181 Pentachlorophenol	266	11.895	11.895	0.000	94	308466	200.0	204.4	
263 n-Octadecane	57	11.900	11.900	0.000	98	492605	100.0	103.8	
185 Phenanthrene	178	12.103	12.103	0.000	97	934652	100.0	98.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
188 Anthracene	178	12.157	12.151	0.006	97	984224	100.0	101.1	
189 Carbazole	167	12.285	12.285	0.000	97	890964	100.0	100.2	
192 Di-n-butyl phthalate	149	12.552	12.547	0.005	100	1056449	100.0	103.1	
197 Fluoranthene	202	13.204	13.198	0.006	99	1028575	100.0	100.4	
198 Benzidine	184	13.278	13.279	-0.001	99	297312	100.0	100.5	
199 Pyrene	202	13.417	13.417	0.000	96	1063283	100.0	100.0	
205 Butyl benzyl phthalate	149	13.898	13.898	0.000	99	478862	100.0	100.3	
210 Bis(2-ethylhexyl) phthalat	149	14.390	14.390	0.000	97	660131	100.0	107.6	
208 3,3'-Dichlorobenzidine	252	14.438	14.432	0.006	99	402344	100.0	101.5	
209 Benzo[a]anthracene	228	14.507	14.507	0.000	98	1094103	100.0	100.5	
211 Chrysene	228	14.545	14.545	0.000	97	1049249	100.0	99.5	
212 Di-n-octyl phthalate	149	15.020	15.020	0.000	100	1123731	100.0	100.4	
213 Benzo[b]fluoranthene	252	15.688	15.683	0.005	97	1183439	100.0	103.1	
214 Benzo[k]fluoranthene	252	15.720	15.715	0.005	98	1191723	100.0	101.2	
217 Benzo[a]pyrene	252	16.126	16.121	0.005	97	1131144	100.0	105.2	
220 Dibenz(a,h)anthracene	278	17.900	17.889	0.011	92	1245523	100.0	101.1	
219 Indeno[1,2,3-cd]pyrene	276	17.910	17.894	0.016	98	1457892	100.0	101.0	
221 Benzo[g,h,i]perylene	276	18.434	18.423	0.011	96	1169140	100.0	101.1	
S 78 3-Methylphenol	1				0			103.4	
S 222 Total Cresols	1				0			206.6	
S 77 3 & 4 Methylphenol	108				0			103.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00302

Amount Added: 1.00

Units: mL

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 17-Mar-2016 13:23:23

Chrom Revision: 2.2 04-Mar-2016 14:36:24

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973U\\20160314-51236.b\\U25630.D

Injection Date: 15-Mar-2016 13:24:30

Instrument ID: HP5973U

Operator ID: MKP

Lims ID: IC - List1 100ppm

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

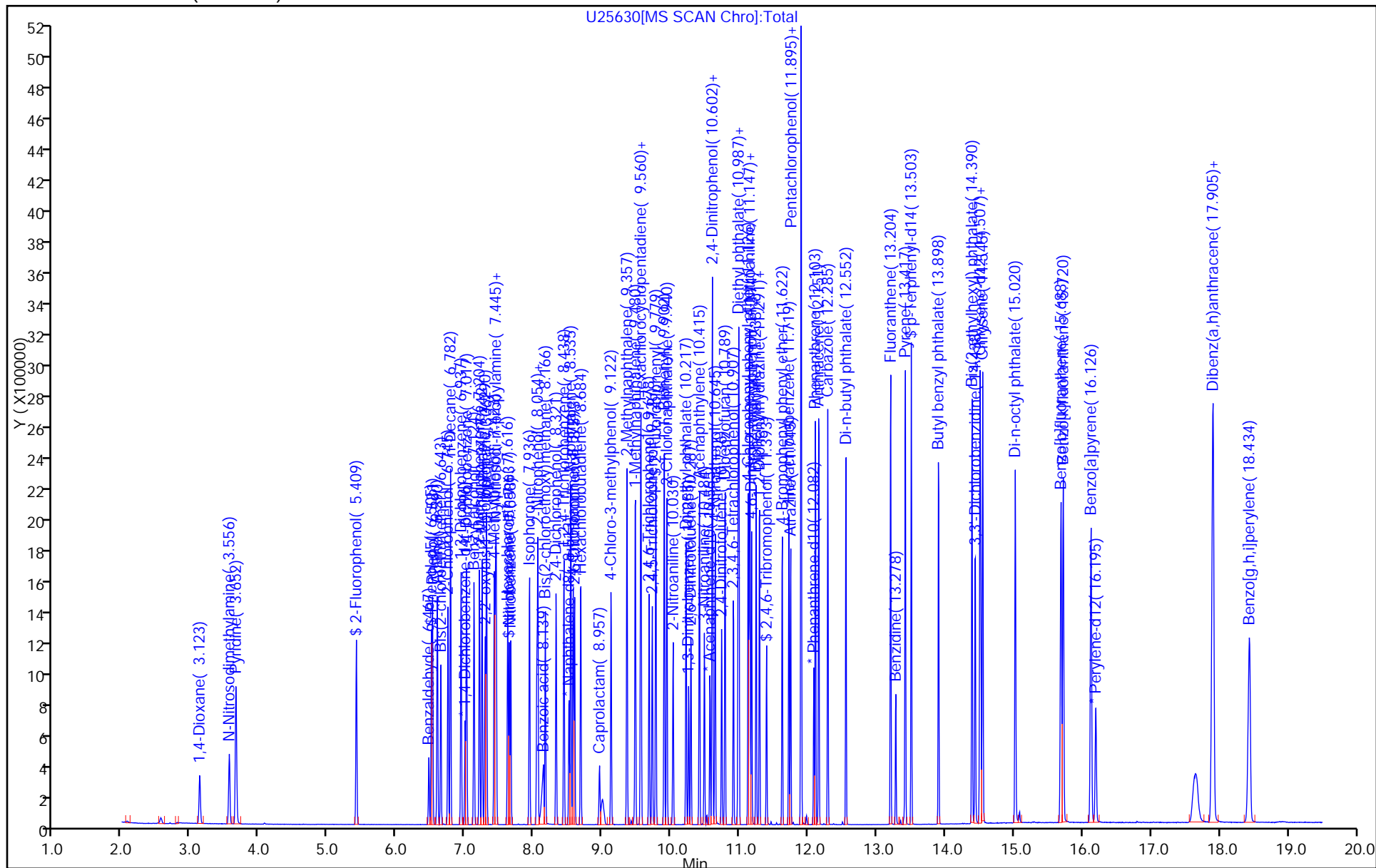
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25630.D

Injection Date: 15-Mar-2016 13:24:30

Instrument ID: HP5973U

Lims ID: IC - List1 100ppm

Client ID:

Operator ID: MKP

ALS Bottle#:

5

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

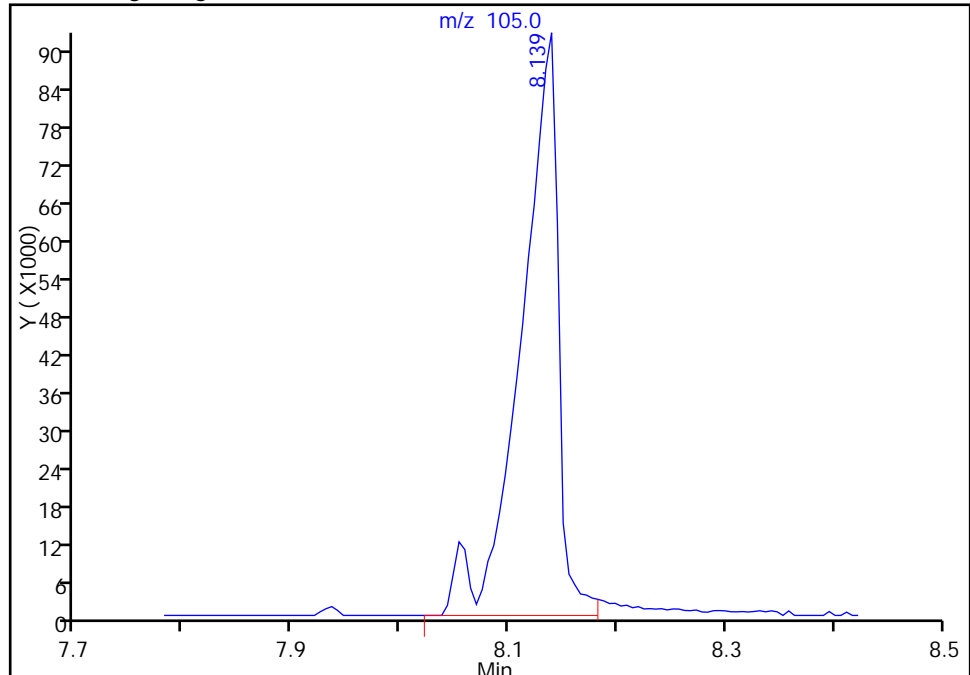
Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

119 Benzoic acid, CAS: 65-85-0

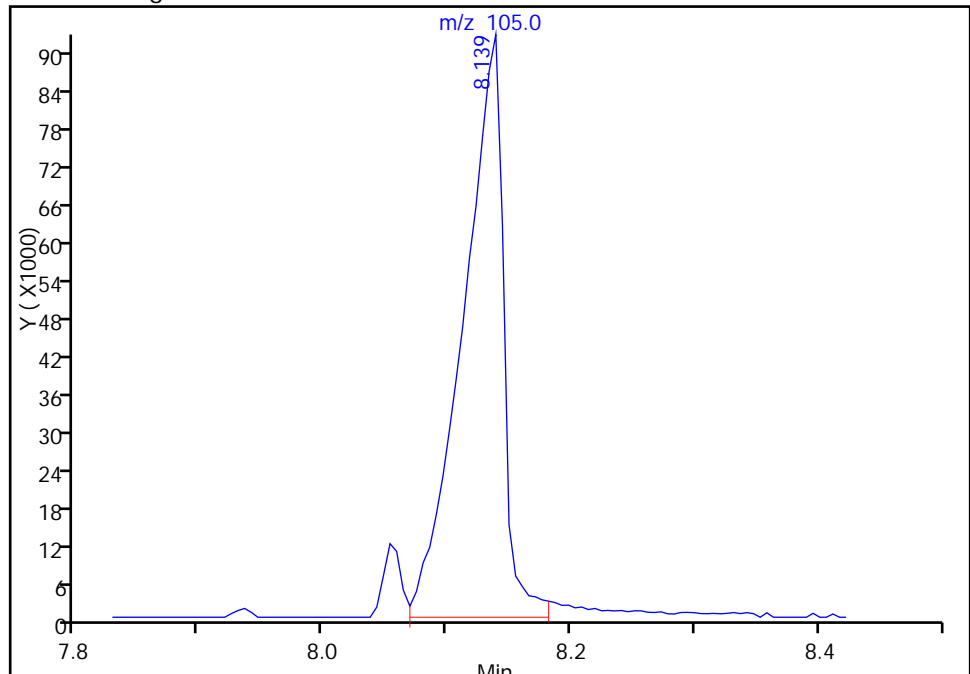
RT: 8.14
Area: 221284
Amount: 107.9634
Amount Units: ng/uL

Processing Integration Results



RT: 8.14
Area: 210166
Amount: 106.3051
Amount Units: ng/uL

Manual Integration Results



Reviewer: pagem, 16-Mar-2016 10:50:33

Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25630.D

Injection Date: 15-Mar-2016 13:24:30

Instrument ID: HP5973U

Lims ID: IC - List1 100ppm

Client ID:

Operator ID: MKP

ALS Bottle#:

5

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

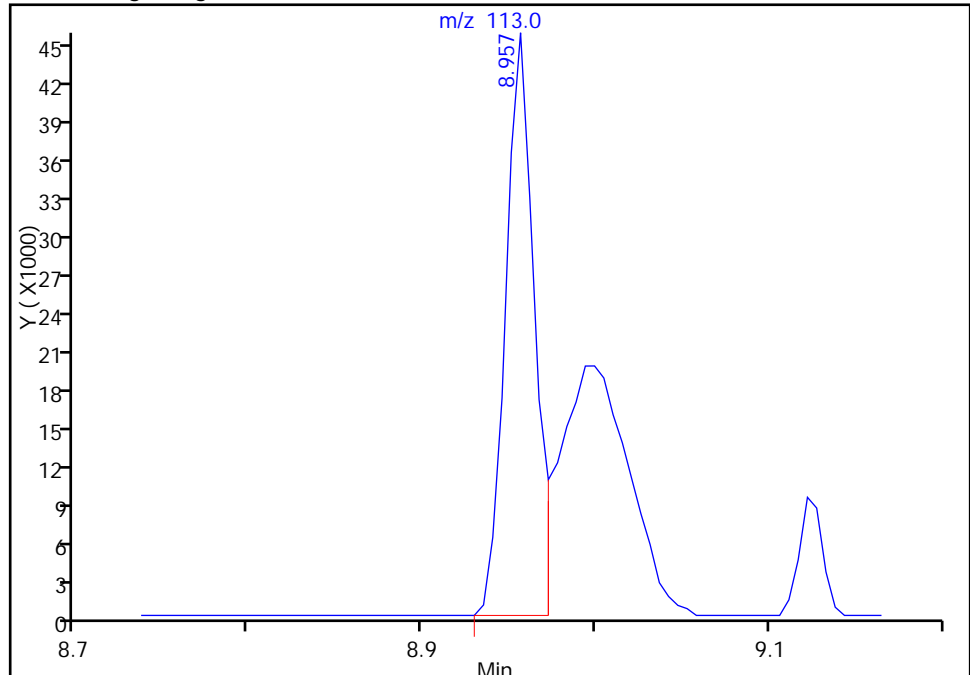
Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

127 Caprolactam, CAS: 105-60-2

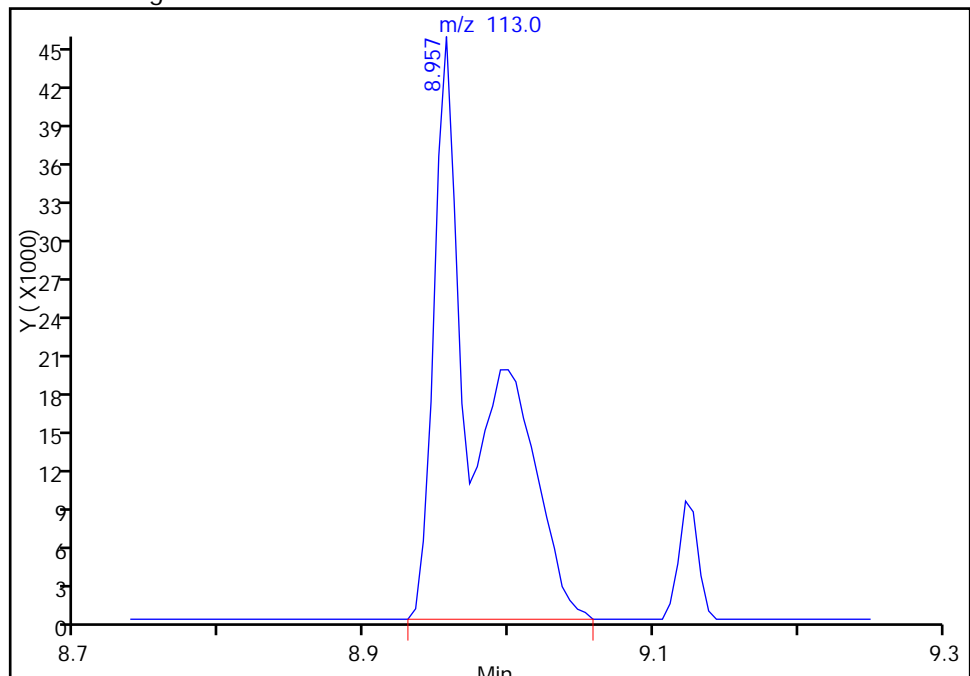
RT: 8.96
Area: 53659
Amount: 68.873849
Amount Units: ng/uL

Processing Integration Results



RT: 8.96
Area: 105318
Amount: 101.7383
Amount Units: ng/uL

Manual Integration Results



Reviewer: pagem, 15-Mar-2016 14:50:28

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25631.D
 Lims ID: IC - List1 120ppm
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 15-Mar-2016 13:51:30 ALS Bottle#: 6 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0051236-008
 Misc. Info.: IC - LIST1 120PPM
 Operator ID: MKP Instrument ID: HP5973U
 Sublist: chrom-U-8270*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 17-Mar-2016 13:23:26 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: pagem

Date: 15-Mar-2016 14:50:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.996	6.996	0.000	97	93289	40.0	40.0	
* 2 Naphthalene-d8	136	8.513	8.508	0.005	99	340432	40.0	40.0	
* 3 Acenaphthene-d10	164	10.565	10.565	0.000	99	177743	40.0	40.0	
* 4 Phenanthrene-d10	188	12.082	12.082	0.000	99	301019	40.0	40.0	
* 5 Chrysene-d12	240	14.518	14.518	0.000	97	357735	40.0	40.0	
* 6 Perylene-d12	264	16.196	16.195	0.001	97	389194	40.0	40.0	
\$ 9 2-Fluorophenol	112	5.410	5.409	0.001	96	401102	120.0	124.4	
\$ 10 Phenol-d5	99	6.505	6.499	0.006	87	463895	120.0	118.1	
\$ 11 Nitrobenzene-d5	82	7.637	7.637	0.000	96	398622	120.0	117.7	
\$ 12 2-Fluorobiphenyl	172	9.780	9.774	0.006	100	700135	120.0	118.2	
\$ 13 2,4,6-Tribromophenol	330	11.393	11.393	0.000	92	139167	120.0	119.1	
\$ 14 p-Terphenyl-d14	244	13.503	13.503	0.000	99	913667	120.0	116.1	
80 1,4-Dioxane	88	3.128	3.128	0.000	98	186847	120.0	122.5	
81 N-Nitrosodimethylamine	42	3.561	3.556	0.005	91	235569	120.0	115.9	
82 Pyridine	52	3.657	3.657	0.000	92	344870	120.0	120.7	
88 Benzaldehyde	77	6.467	6.467	0.000	94	95813	120.0	120.4	
89 Phenol	94	6.521	6.515	0.006	99	478186	120.0	115.8	
90 Aniline	93	6.590	6.590	0.000	97	589926	120.0	117.1	
91 Bis(2-chloroethyl)ether	93	6.644	6.638	0.006	98	392420	120.0	115.8	
93 2-Chlorophenol	128	6.745	6.745	0.000	97	396085	120.0	120.0	
258 n-Decane	57	6.783	6.782	0.001	98	518338	120.0	123.6	
94 1,3-Dichlorobenzene	146	6.937	6.937	0.000	97	433832	120.0	119.0	
95 1,4-Dichlorobenzene	146	7.018	7.017	0.001	92	432773	120.0	118.3	
96 Benzyl alcohol	108	7.124	7.124	0.000	93	244325	120.0	116.1	
97 1,2-Dichlorobenzene	146	7.205	7.204	0.001	95	403079	120.0	117.5	
98 2-Methylphenol	108	7.242	7.242	0.000	97	340660	120.0	116.0	
99 2,2'-oxybis[1-chloropropan	45	7.290	7.285	0.005	95	545940	120.0	115.8	
249 Indene	115	7.306	7.306	0.000	97	689547	120.0	117.2	
102 4-Methylphenol	108	7.424	7.418	0.006	96	352269	120.0	114.2	
101 N-Nitrosodi-n-propylamine	70	7.434	7.434	0.000	91	268042	120.0	113.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
104 Acetophenone	105	7.450	7.445	0.005	96	490883	120.0	110.4	
106 Hexachloroethane	117	7.616	7.616	0.000	97	174381	120.0	120.8	
107 Nitrobenzene	77	7.659	7.658	0.001	88	384774	120.0	123.1	
110 Isophorone	82	7.936	7.931	0.005	99	660310	120.0	118.1	
111 2-Nitrophenol	139	8.043	8.043	0.000	96	180737	120.0	121.4	
112 2,4-Dimethylphenol	107	8.054	8.054	0.000	95	358447	120.0	120.6	
119 Benzoic acid	105	8.134	8.113	0.021	88	207098	120.0	119.4	M
115 Bis(2-chloroethoxy)methane	93	8.166	8.161	0.005	99	421030	120.0	117.7	
117 2,4-Dichlorophenol	162	8.321	8.321	0.000	95	287791	120.0	122.9	
120 1,2,4-Trichlorobenzene	180	8.439	8.438	0.001	94	326036	120.0	120.7	
121 Naphthalene	128	8.535	8.535	0.000	98	1015618	120.0	118.2	
123 4-Chloroaniline	127	8.572	8.567	0.005	97	430467	120.0	117.6	
124 2,6-Dichlorophenol	162	8.594	8.588	0.006	98	283169	120.0	120.6	
126 Hexachlorobutadiene	225	8.684	8.684	0.000	96	200970	120.0	121.7	
127 Caprolactam	113	8.957	8.946	0.011	79	107269	120.0	118.3	M
131 4-Chloro-3-methylphenol	107	9.122	9.122	0.000	93	284964	120.0	119.7	
133 2-Methylnaphthalene	142	9.358	9.357	0.001	92	642492	120.0	116.9	
252 1-Methylnaphthalene	142	9.480	9.475	0.005	97	603480	120.0	116.5	
136 Hexachlorocyclopentadiene	237	9.555	9.555	0.000	96	240484	120.0	120.4	
138 1,2,4,5-Tetrachlorobenzene	216	9.561	9.560	0.001	97	309772	120.0	121.2	
139 2,4,6-Trichlorophenol	196	9.678	9.678	0.000	96	197458	120.0	118.7	
140 2,4,5-Trichlorophenol	196	9.726	9.726	0.000	95	204970	120.0	118.6	
144 1,1'-Biphenyl	154	9.897	9.897	0.000	96	747295	120.0	117.3	
143 2-Chloronaphthalene	162	9.940	9.934	0.006	97	607021	120.0	118.5	
145 2-Nitroaniline	65	10.031	10.025	0.006	83	190285	120.0	119.8	
147 Dimethyl phthalate	163	10.218	10.217	0.001	99	678006	120.0	120.6	
50 1,3-Dinitrobenzene	168	10.255	10.255	0.000	85	111482	120.0	122.2	
148 2,6-Dinitrotoluene	165	10.292	10.287	0.005	96	160836	120.0	121.6	
149 Acenaphthylene	152	10.415	10.410	0.005	98	895997	120.0	119.7	
150 3-Nitroaniline	138	10.485	10.485	0.000	93	177682	120.0	122.4	
152 2,4-Dinitrophenol	184	10.597	10.597	0.000	83	177594	240.0	255.9	
151 Acenaphthene	153	10.602	10.602	0.000	95	595320	120.0	119.3	
153 4-Nitrophenol	109	10.645	10.639	0.006	92	193898	240.0	243.6	
154 2,4-Dinitrotoluene	165	10.736	10.736	0.000	94	214239	120.0	122.6	
155 Dibenzofuran	168	10.789	10.784	0.005	96	847764	120.0	118.1	
158 2,3,4,6-Tetrachlorophenol	232	10.912	10.907	0.005	97	177478	120.0	120.5	
160 Diethyl phthalate	149	10.976	10.976	0.000	98	671296	120.0	123.0	
257 Hexadecane	57	10.987	10.987	0.000	97	495965	120.0	120.1	
162 4-Chlorophenyl phenyl ethe	204	11.126	11.126	0.000	90	351289	120.0	120.8	
164 4-Nitroaniline	138	11.142	11.136	0.006	86	191430	120.0	124.7	
161 Fluorene	166	11.147	11.147	0.000	94	717442	120.0	121.6	
166 4,6-Dinitro-2-methylphenol	198	11.174	11.174	0.000	87	259954	240.0	247.8	
169 Diphenylamine	169	11.238	11.238	0.000	96	515852	102.1	100.2	
167 N-Nitrosodiphenylamine	169	11.238	11.238	0.000	98	515852	120.0	117.7	
170 Azobenzene	77	11.286	11.286	0.000	98	747404	120.0	116.6	
168 1,2-Diphenylhydrazine	77	11.286	11.286	0.000	99	747404	120.0	116.6	
176 4-Bromophenyl phenyl ether	248	11.623	11.622	0.001	95	220480	120.0	121.3	
177 Hexachlorobenzene	284	11.719	11.719	0.000	97	260003	120.0	119.5	
180 Atrazine	200	11.746	11.740	0.006	92	192016	120.0	128.1	
181 Pentachlorophenol	266	11.895	11.895	0.000	95	326214	240.0	242.5	
263 n-Octadecane	57	11.900	11.900	0.000	98	489665	120.0	116.2	
185 Phenanthrene	178	12.103	12.103	0.000	97	994874	120.0	118.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
188 Anthracene	178	12.152	12.151	0.001	97	1036408	120.0	120.0	
189 Carbazole	167	12.285	12.285	0.000	97	960123	120.0	121.7	
192 Di-n-butyl phthalate	149	12.552	12.547	0.005	100	1131058	120.0	124.4	
197 Fluoranthene	202	13.204	13.198	0.006	99	1113836	120.0	122.6	
198 Benzidine	184	13.279	13.279	0.000	98	343897	120.0	123.2	
199 Pyrene	202	13.418	13.417	0.001	96	1153405	120.0	115.5	
205 Butyl benzyl phthalate	149	13.904	13.898	0.006	99	531197	120.0	118.3	
210 Bis(2-ethylhexyl) phthalat	149	14.390	14.390	0.000	97	736850	120.0	127.9	
208 3,3'-Dichlorobenzidine	252	14.438	14.432	0.006	99	455620	120.0	122.0	
209 Benzo[a]anthracene	228	14.507	14.507	0.000	98	1225544	120.0	119.8	
211 Chrysene	228	14.545	14.545	0.000	97	1178074	120.0	119.0	
212 Di-n-octyl phthalate	149	15.020	15.020	0.000	100	1274476	120.0	120.9	
213 Benzo[b]fluoranthene	252	15.688	15.683	0.005	97	1360236	120.0	119.4	
214 Benzo[k]fluoranthene	252	15.720	15.715	0.005	98	1389377	120.0	118.8	
217 Benzo[a]pyrene	252	16.126	16.121	0.005	97	1320666	120.0	123.8	
220 Dibenz(a,h)anthracene	278	17.905	17.889	0.016	91	1547294	120.0	126.1	
219 Indeno[1,2,3-cd]pyrene	276	17.910	17.894	0.016	97	1821560	120.0	126.7	
221 Benzo[g,h,i]perylene	276	18.439	18.423	0.016	98	1457613	120.0	126.6	
S 78 3-Methylphenol	1				0			114.2	
S 222 Total Cresols	1				0			230.2	
S 77 3 & 4 Methylphenol	108				0			114.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00303

Amount Added: 1.00

Units: mL

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

Chrom Revision: 2.2 04-Mar-2016 14:36:24

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25631.D

Instrument ID: HP5973U

Operator ID: MKP

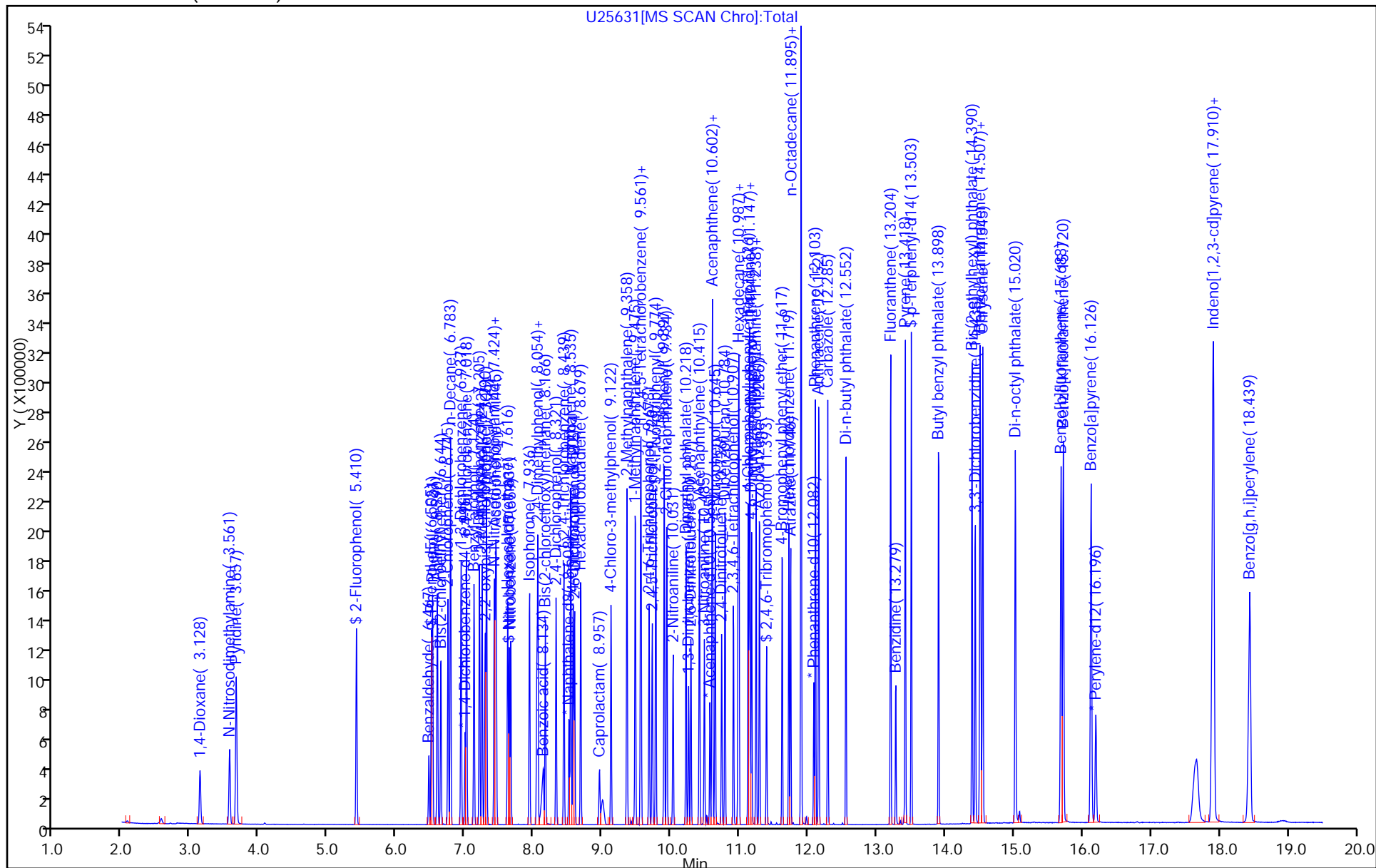
Worklist Smp#: 8

ALS Bottle#: 6

Dil. Factor: 1.0000

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25631.D

Injection Date: 15-Mar-2016 13:51:30

Instrument ID: HP5973U

Lims ID: IC - List1 120ppm

Client ID:

Operator ID: MKP

ALS Bottle#:

6

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

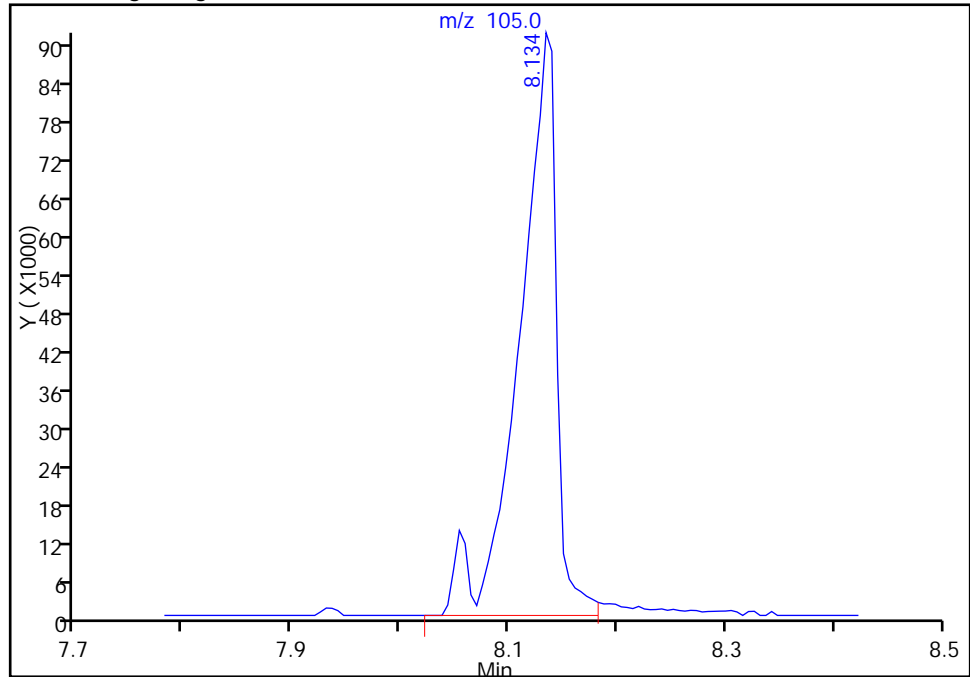
Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

119 Benzoic acid, CAS: 65-85-0

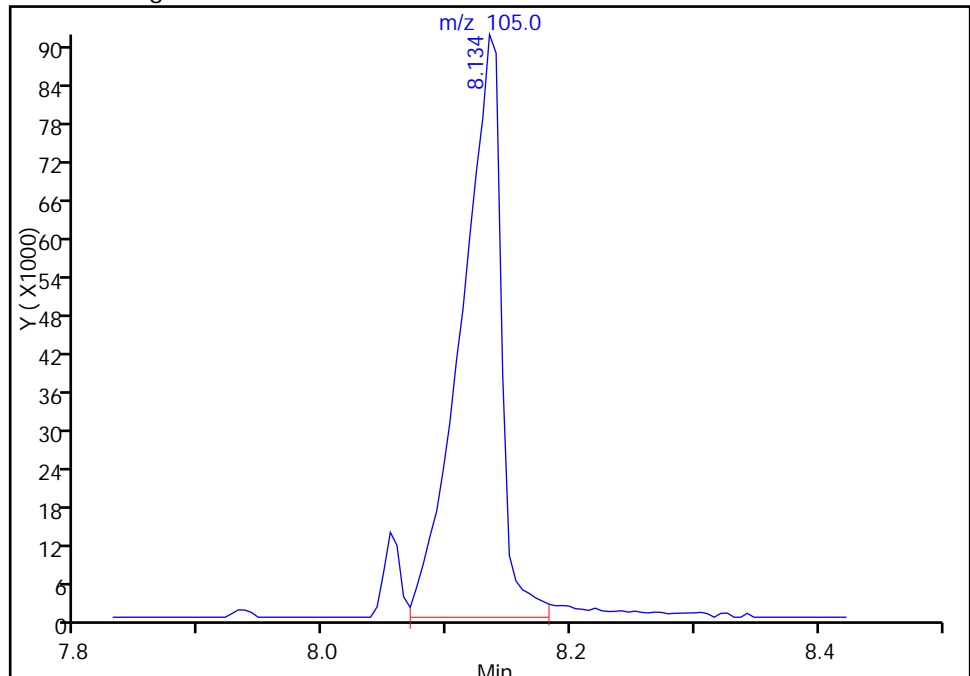
RT: 8.13
Area: 218909
Amount: 123.5620
Amount Units: ng/uL

Processing Integration Results



RT: 8.13
Area: 207098
Amount: 119.4021
Amount Units: ng/uL

Manual Integration Results



Reviewer: pagem, 16-Mar-2016 10:51:20

Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25631.D

Injection Date: 15-Mar-2016 13:51:30

Instrument ID: HP5973U

Lims ID: IC - List1 120ppm

Client ID:

Operator ID: MKP

ALS Bottle#:

6

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

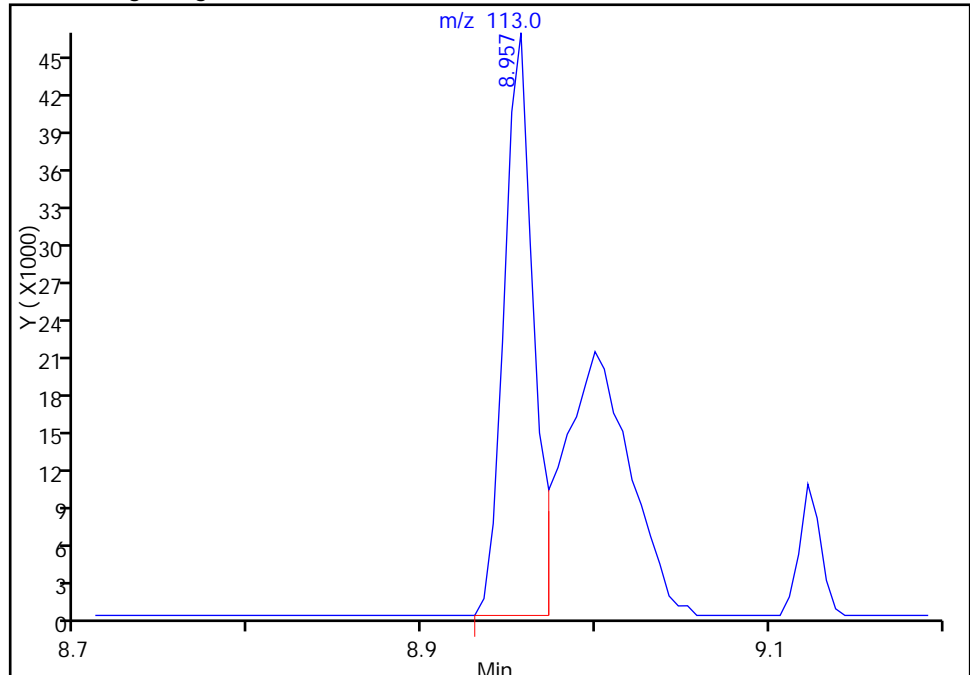
Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

127 Caprolactam, CAS: 105-60-2

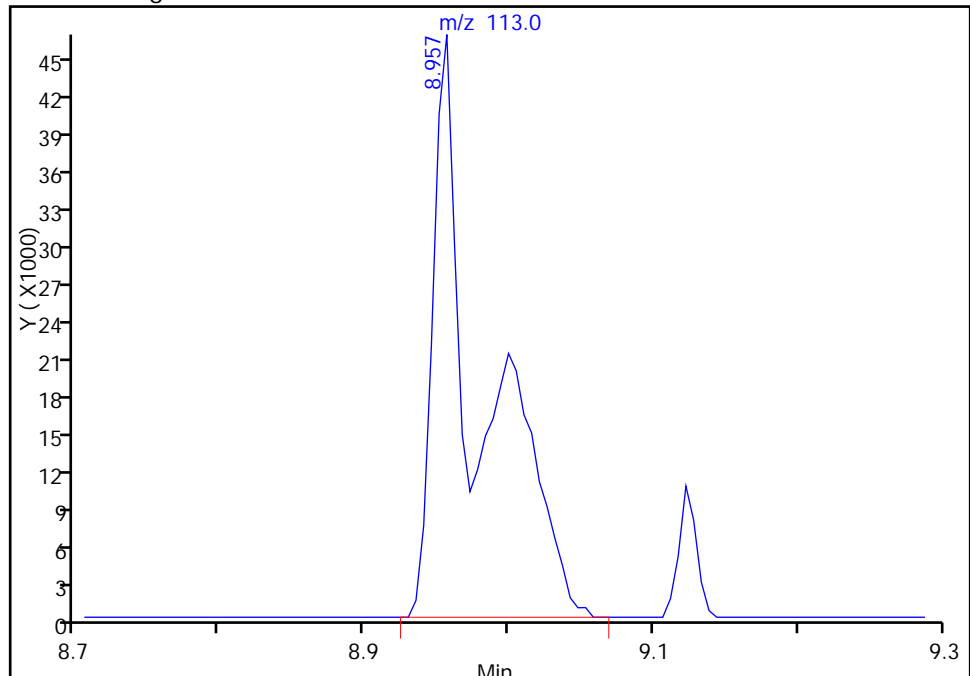
RT: 8.96
Area: 54591
Amount: 72.256517
Amount Units: ng/uL

Processing Integration Results



RT: 8.96
Area: 107269
Amount: 118.3283
Amount Units: ng/uL

Manual Integration Results



Reviewer: pagem, 15-Mar-2016 14:50:41

Audit Action: Manually Integrated

Audit Reason: Split Peak

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo

Job No.: 460-110815-1

SDG No.: _____

Lab Sample ID (1): CCVIS 480-293176/3

Instrument ID (1): HP5973U

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

Date Analyzed (1): 03/30/2016 05:44

ANALYTE	RT	RESOLUTION (%)
2-Fluorophenol (Surr)	5.40	100.0
Benzaldehyde	6.46	100.0
Phenol-d5 (Surr)	6.51	100.0
Phenol	6.52	100.0
Bis(2-chloroethyl)ether	6.63	100.0
2-Chlorophenol	6.74	100.0
2-Methylphenol	7.24	100.0
2,2'-oxybis[1-chloropropane]	7.27	100.0
4-Methylphenol	7.41	100.0
N-Nitrosodi-n-propylamine	7.42	100.0
Acetophenone	7.44	100.0
Hexachloroethane	7.60	100.0
Nitrobenzene-d5 (Surr)	7.63	100.0
Nitrobenzene	7.65	100.0
Isophorone	7.92	100.0
2-Nitrophenol	8.03	100.0
2,4-Dimethylphenol	8.05	100.0
Bis(2-chloroethoxy)methane	8.16	100.0
2,4-Dichlorophenol	8.32	100.0
Naphthalene	8.52	100.0
4-Chloroaniline	8.56	100.0
Hexachlorobutadiene	8.67	100.0
Caprolactam	8.94	100.0
4-Chloro-3-methylphenol	9.12	100.0
2-Methylnaphthalene	9.35	100.0
Hexachlorocyclopentadiene	9.54	100.0
1,2,4,5-Tetrachlorobenzene	9.55	100.0
2,4,6-Trichlorophenol	9.67	100.0
2,4,5-Trichlorophenol	9.72	100.0
2-Fluorobiphenyl	9.76	100.0
1,1'-Biphenyl	9.89	100.0
2-Chloronaphthalene	9.93	100.0
2-Nitroaniline	10.02	100.0
Dimethyl phthalate	10.21	100.0
2,6-Dinitrotoluene	10.28	100.0
Acenaphthylene	10.41	100.0
3-Nitroaniline	10.48	100.0
2,4-Dinitrophenol	10.59	100.0
Acenaphthene	10.59	100.0
4-Nitrophenol	10.65	100.0
2,4-Dinitrotoluene	10.73	100.0
Dibenzofuran	10.78	100.0
2,3,4,6-Tetrachlorophenol	10.90	100.0
Diethyl phthalate	10.97	100.0
4-Chlorophenyl phenyl ether	11.12	100.0

FORM VI
RESOLUTION CHECK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1
 SDG No.: _____
 Lab Sample ID (1): CCVIS 480-293176/3 Instrument ID (1): HP5973U
 GC Column (1): RXI-5Sil MS ID: 0.25(mm) Date Analyzed (1): 03/30/2016 05:44

ANALYTE	RT	RESOLUTION (%)
4-Nitroaniline	11.13	100.0
Fluorene	11.14	100.0
4,6-Dinitro-2-methylphenol	11.16	100.0
N-Nitrosodiphenylamine	11.23	100.0
2,4,6-Tribromophenol (Surr)	11.39	100.0
4-Bromophenyl phenyl ether	11.61	100.0
Hexachlorobenzene	11.71	100.0
Atrazine	11.74	100.0
Pentachlorophenol	11.89	100.0
Phenanthrene	12.10	100.0
Anthracene	12.15	100.0
Carbazole	12.28	100.0
Di-n-butyl phthalate	12.54	100.0
Fluoranthene	13.19	100.0
Pyrene	13.41	100.0
p-Terphenyl-d14 (Surr)	13.50	100.0
Butyl benzyl phthalate	13.89	100.0
Bis(2-ethylhexyl) phthalate	14.38	100.0
3,3'-Dichlorobenzidine	14.43	100.0
Benzo[a]anthracene	14.50	100.0
Chrysene	14.53	100.0
Di-n-octyl phthalate	15.00	100.0
Benzo[b]fluoranthene	15.67	28.60
Benzo[k]fluoranthene	15.70	100.0
Benzo[a]pyrene	16.11	100.0
Dibenz(a,h)anthracene	17.87	100.0
Indeno[1,2,3-cd]pyrene	17.88	100.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1

SDG No.: _____

Lab Sample ID: ICV 480-290883/9 Calibration Date: 03/15/2016 14:18

Instrument ID: HP5973U Calib Start Date: 03/15/2016 11:37

GC Column: RXI-5Sil MS ID: 0.25 (mm) Calib End Date: 03/15/2016 13:51

Lab File ID: U25632.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6538	0.6157	0.0100	47100	50000	-5.8	30.0
N-Nitrosodimethylamine	Ave	0.8716	0.7351	0.0100	42200	50000	-15.7	30.0
Pyridine	Ave	1.225	1.198	0.0100	48900	50000	-2.2	30.0
Benzaldehyde	Ave	0.3413	0.7785	0.0100	114000	50000	128.1*	30.0
Phenol	Ave	1.770	1.789	0.8000	50500	50000	1.1	30.0
Aniline	Ave	2.160	2.211	0.0100	51200	50000	2.4	30.0
Bis(2-chloroethyl)ether	Ave	1.453	1.440	0.7000	49500	50000	-0.9	30.0
2-Chlorophenol	Ave	1.415	1.434	0.8000	50700	50000	1.3	30.0
n-Decane	Ave	1.799	1.772	0.0100	49300	50000	-1.5	30.0
1,3-Dichlorobenzene	Ave	1.563	1.527	0.0100	48900	50000	-2.3	30.0
1,4-Dichlorobenzene	Ave	1.568	1.573	0.0100	50100	50000	0.3	30.0
Benzyl alcohol	Ave	0.9023	0.9584	0.0100	53100	50000	6.2	30.0
1,2-Dichlorobenzene	Ave	1.471	1.481	0.0100	50300	50000	0.6	30.0
2-Methylphenol	Ave	1.259	1.332	0.7000	52900	50000	5.8	30.0
2,2'-oxybis[1-chloropropane]	Ave	2.021	2.075	0.0100	51300	50000	2.7	30.0
Indene	Ave	2.523	2.461		48800	50000	-2.5	
4-Methylphenol	Ave	1.323	1.355	0.6000	51200	50000	2.5	30.0
N-Nitrosodi-n-propylamine	Ave	1.017	1.060	0.5000	52100	50000	4.3	30.0
Acetophenone	Ave	1.907	1.939	0.0100	50800	50000	1.7	30.0
Hexachloroethane	Ave	0.6192	0.6306	0.3000	50900	50000	1.8	30.0
Nitrobenzene	Ave	0.3673	0.3691	0.2000	50200	50000	0.5	30.0
Isophorone	Ave	0.6567	0.6804	0.4000	51800	50000	3.6	30.0
2-Nitrophenol	Lin1		0.1760	0.1000	51500	50000	3.1	25.0
2,4-Dimethylphenol	Ave	0.3494	0.3545	0.2000	50700	50000	1.5	30.0
Benzoic acid	Lin1		0.2150	0.0100	55200	50000	10.3	25.0
Bis(2-chloroethoxy)methane	Ave	0.4203	0.4181	0.3000	49700	50000	-0.5	30.0
2,4-Dichlorophenol	Ave	0.2750	0.2844	0.2000	51700	50000	3.4	30.0
1,2,4-Trichlorobenzene	Ave	0.3173	0.3140	0.0100	49500	50000	-1.1	30.0
Naphthalene	Ave	1.009	1.013	0.7000	50200	50000	0.3	30.0
4-Chloroaniline	Ave	0.4299	0.4339	0.0100	50500	50000	0.9	30.0
2,6-Dichlorophenol	Ave	0.2760	0.2824	0.0100	51200	50000	2.3	30.0
Hexachlorobutadiene	Ave	0.1940	0.1931	0.0100	49800	50000	-0.5	30.0
Caprolactam	Lin1		0.1091	0.0100	52400	50000	4.7	25.0
4-Chloro-3-methylphenol	Ave	0.2796	0.2934	0.2000	52500	50000	4.9	30.0
2-Methylnaphthalene	Ave	0.6460	0.6533	0.4000	50600	50000	1.1	30.0
1-Methylnaphthalene	Ave	0.6087	0.6097	0.0100	50100	50000	0.2	30.0
Hexachlorocyclopentadiene	Lin1		0.4049	0.0500	45800	50000	-8.3	25.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5750	0.5615	0.0100	48800	50000	-2.3	30.0
2,4,6-Trichlorophenol	Lin1		0.3705	0.2000	50400	50000	0.8	25.0
2,4,5-Trichlorophenol	Lin1		0.4065	0.2000	53100	50000	6.2	25.0
1,1'-Biphenyl	Ave	1.433	1.435	0.0100	50000	50000	0.1	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1

SDG No.: _____

Lab Sample ID: ICV 480-290883/9 Calibration Date: 03/15/2016 14:18

Instrument ID: HP5973U Calib Start Date: 03/15/2016 11:37

GC Column: RXI-5Sil MS ID: 0.25 (mm) Calib End Date: 03/15/2016 13:51

Lab File ID: U25632.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloronaphthalene	Ave	1.153	1.149	0.8000	49800	50000	-0.3	30.0
2-Nitroaniline	Lin1		0.3545	0.0100	50900	50000	1.8	25.0
Dimethyl phthalate	Ave	1.266	1.295	0.0100	51100	50000	2.3	30.0
1,3-Dinitrobenzene	Lin1		0.1073	0.0100	52000	50000	4.0	25.0
2,6-Dinitrotoluene	Lin1		0.2969	0.2000	51200	50000	2.5	25.0
Acenaphthylene	Ave	1.684	1.701	0.9000	50500	50000	1.0	30.0
3-Nitroaniline	Lin1		0.3253	0.0100	51200	50000	2.4	25.0
2,4-Dinitrophenol	Lin1		0.1460	0.0100	99200	100000	-0.8	25.0
Acenaphthene	Ave	1.123	1.150	0.0100	51200	50000	2.3	30.0
4-Nitrophenol	Lin1		0.1808	0.0100	103000	100000	3.4	25.0
2,4-Dinitrotoluene	Lin1		0.3915	0.0100	51400	50000	2.8	25.0
Dibenzofuran	Ave	1.616	1.588	0.8000	49100	50000	-1.7	30.0
2,3,4,6-Tetrachlorophenol	Lin1		0.3319	0.0100	51300	50000	2.6	25.0
Diethyl phthalate	Ave	1.228	1.258	0.0100	51200	50000	2.4	30.0
Hexadecane	Ave	0.9296	0.9517	0.0100	51200	50000	2.4	30.0
4-Chlorophenyl phenyl ether	Ave	0.6546	0.6468	0.4000	49400	50000	-1.2	30.0
4-Nitroaniline	Lin1		0.3425	0.0100	51000	50000	1.9	25.0
Fluorene	Ave	1.327	1.323	0.9000	49800	50000	-0.3	30.0
4,6-Dinitro-2-methylphenol	Lin1		0.1322	0.0100	99700	100000	-0.3	25.0
Diphenylamine	Ave	0.6844	0.6828	0.0100	85300	85500	-0.2	30.0
N-Nitrosodiphenylamine	Ave	0.5822	0.5838	0.0100	100000	100000	0.3	30.0
1,2-Diphenylhydrazine	Ave	0.8520	0.8621	0.0100	50600	50000	1.2	30.0
trans-Azobenzene	Ave	0.8520	0.8621	0.0100	50600	50000	1.2	30.0
4-Bromophenyl phenyl ether	Ave	0.2415	0.2407	0.1000	49800	50000	-0.3	30.0
Hexachlorobenzene	Ave	0.2892	0.2989	0.1000	51700	50000	3.3	30.0
Atrazine	Ave	0.3372	0.3381	0.0100	50100	50000	0.3	30.0
n-Octadecane	Ave	0.5598	0.5757	0.0100	51400	50000	2.8	30.0
Pentachlorophenol	Lin1		0.1750	0.0500	101000	100000	1.2	25.0
Phenanthrene	Ave	1.116	1.114	0.7000	49900	50000	-0.1	30.0
Anthracene	Ave	1.148	1.143	0.7000	49800	50000	-0.4	30.0
Carbazole	Ave	1.048	1.044	0.0100	49800	50000	-0.4	30.0
Di-n-butyl phthalate	Ave	1.209	1.250	0.0100	51700	50000	3.5	30.0
Fluoranthene	Ave	1.208	1.210	0.6000	50100	50000	0.2	30.0
Benzidine	Lin1		0.4336	0.0100	70700	50000	41.4*	25.0
Pyrene	Ave	1.116	1.125	0.6000	50400	50000	0.8	30.0
Butyl benzyl phthalate	Lin1		0.5091	0.0100	51600	50000	3.1	25.0
Bis(2-ethylhexyl) phthalate	Ave	0.6441	0.6911	0.0100	53600	50000	7.3	30.0
3,3'-Dichlorobenzidine	Lin1		0.4360	0.0100	53200	50000	6.5	25.0
Benzo[a]anthracene	Ave	1.143	1.170	0.8000	51200	50000	2.3	30.0
Chrysene	Ave	1.107	1.140	0.7000	51500	50000	3.0	30.0
Di-n-octyl phthalate	Lin1		1.178	0.0100	51100	50000	2.2	25.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1
 SDG No.: _____
 Lab Sample ID: ICV 480-290883/9 Calibration Date: 03/15/2016 14:18
 Instrument ID: HP5973U Calib Start Date: 03/15/2016 11:37
 GC Column: RXI-5Sil MS ID: 0.25 (mm) Calib End Date: 03/15/2016 13:51
 Lab File ID: U25632.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[b]fluoranthene	Ave	1.171	1.171	0.7000	50000	50000	0.0	30.0
Benzo[k]fluoranthene	Ave	1.202	1.308	0.7000	54400	50000	8.8	30.0
Benzo[a]pyrene	Ave	1.096	1.119	0.7000	51000	50000	2.1	30.0
Dibenz(a,h)anthracene	Lin1		1.185	0.4000	48200	50000	-3.7	25.0
Indeno[1,2,3-cd]pyrene	Lin1		1.373	0.5000	47600	50000	-4.8	25.0
Benzo[g,h,i]perylene	Lin1		1.075	0.5000	46500	50000	-7.0	25.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25632.D
 Lims ID: ICV - List1
 Client ID:
 Sample Type: ICV
 Inject. Date: 15-Mar-2016 14:18:30 ALS Bottle#: 7 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0051236-009
 Misc. Info.: ICV - LIST1
 Operator ID: MKP Instrument ID: HP5973U
 Sublist:
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 17-Mar-2016 13:23:26 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: pagem

Date: 16-Mar-2016 10:52:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.996	6.996	0.000	97	114821	40.0	40.0	
* 2 Naphthalene-d8	136	8.508	8.508	0.000	100	449714	40.0	40.0	
* 3 Acenaphthene-d10	164	10.565	10.565	0.000	98	245593	40.0	40.0	
* 4 Phenanthrene-d10	188	12.082	12.082	0.000	99	407394	40.0	40.0	
* 5 Chrysene-d12	240	14.518	14.518	0.000	97	450506	40.0	40.0	
* 6 Perylene-d12	264	16.196	16.195	0.001	97	449306	40.0	40.0	
80 1,4-Dioxane	88	3.128	3.128	0.000	98	88374	50.0	47.1	
81 N-Nitrosodimethylamine	42	3.556	3.556	0.000	92	105503	50.0	42.2	
82 Pyridine	52	3.657	3.657	0.000	92	171923	50.0	48.9	
88 Benzaldehyde	77	6.467	6.467	0.000	95	111733	50.0	114.0	
89 Phenol	94	6.521	6.515	0.006	99	256818	50.0	50.5	
90 Aniline	93	6.590	6.590	0.000	97	317401	50.0	51.2	
91 Bis(2-chloroethyl)ether	93	6.638	6.638	0.000	98	206673	50.0	49.5	
93 2-Chlorophenol	128	6.745	6.745	0.000	97	205846	50.0	50.7	
258 n-Decane	57	6.782	6.782	0.000	98	254391	50.0	49.3	
94 1,3-Dichlorobenzene	146	6.937	6.937	0.000	97	219205	50.0	48.9	
95 1,4-Dichlorobenzene	146	7.018	7.017	0.001	93	225716	50.0	50.1	
96 Benzyl alcohol	108	7.124	7.124	0.000	93	137561	50.0	53.1	
97 1,2-Dichlorobenzene	146	7.205	7.204	0.000	95	212494	50.0	50.3	
98 2-Methylphenol	108	7.242	7.242	0.000	97	191224	50.0	52.9	
99 2,2'-oxybis[1-chloropropan	45	7.290	7.285	0.005	94	297880	50.0	51.3	
249 Indene	115	7.306	7.306	0.000	96	353171	50.0	48.8	
102 4-Methylphenol	108	7.418	7.418	0.000	96	194549	50.0	51.2	
101 N-Nitrosodi-n-propylamine	70	7.434	7.434	0.000	91	152146	50.0	52.1	
104 Acetophenone	105	7.450	7.445	0.005	96	278252	50.0	50.8	
106 Hexachloroethane	117	7.616	7.616	0.000	98	90508	50.0	50.9	
107 Nitrobenzene	77	7.659	7.658	0.001	89	207462	50.0	50.2	
110 Isophorone	82	7.931	7.931	0.000	99	382502	50.0	51.8	
111 2-Nitrophenol	139	8.043	8.043	0.000	96	98950	50.0	51.5	
112 2,4-Dimethylphenol	107	8.054	8.054	0.000	96	199274	50.0	50.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
119 Benzoic acid	105	8.123	8.113	0.010	89	120866	50.0	55.2	M
115 Bis(2-chloroethoxy)methane	93	8.166	8.161	0.005	99	235037	50.0	49.7	
117 2,4-Dichlorophenol	162	8.321	8.321	0.000	95	159867	50.0	51.7	
120 1,2,4-Trichlorobenzene	180	8.439	8.438	0.001	94	176482	50.0	49.5	
121 Naphthalene	128	8.535	8.535	0.000	98	569265	50.0	50.2	
123 4-Chloroaniline	127	8.567	8.567	0.000	96	243926	50.0	50.5	
124 2,6-Dichlorophenol	162	8.593	8.588	0.005	97	158755	50.0	51.2	
126 Hexachlorobutadiene	225	8.684	8.684	0.000	96	108574	50.0	49.8	
127 Caprolactam	113	8.946	8.946	0.000	79	61333	50.0	52.4	
131 4-Chloro-3-methylphenol	107	9.122	9.122	0.000	93	164957	50.0	52.5	
133 2-Methylnaphthalene	142	9.357	9.357	0.000	92	367244	50.0	50.6	
252 1-Methylnaphthalene	142	9.475	9.475	0.000	97	342710	50.0	50.1	
136 Hexachlorocyclopentadiene	237	9.555	9.555	0.000	96	124302	50.0	45.8	
138 1,2,4,5-Tetrachlorobenzene	216	9.560	9.560	0.000	98	172378	50.0	48.8	
139 2,4,6-Trichlorophenol	196	9.678	9.678	0.000	96	113744	50.0	50.4	
140 2,4,5-Trichlorophenol	196	9.726	9.726	0.000	95	124801	50.0	53.1	
144 1,1'-Biphenyl	154	9.897	9.897	0.000	96	440383	50.0	50.0	
143 2-Chloronaphthalene	162	9.934	9.934	0.000	97	352817	50.0	49.8	
145 2-Nitroaniline	65	10.025	10.025	0.000	83	108818	50.0	50.9	
147 Dimethyl phthalate	163	10.218	10.217	0.001	99	397414	50.0	51.1	
50 1,3-Dinitrobenzene	168	10.255	10.255	0.000	84	60335	50.0	52.0	
148 2,6-Dinitrotoluene	165	10.287	10.287	0.000	95	91132	50.0	51.2	
149 Acenaphthylene	152	10.410	10.410	0.000	98	522121	50.0	50.5	
150 3-Nitroaniline	138	10.485	10.485	0.000	93	99856	50.0	51.2	
152 2,4-Dinitrophenol	184	10.597	10.597	0.000	84	89642	100.0	99.2	
151 Acenaphthene	153	10.602	10.602	0.000	94	352911	50.0	51.2	
153 4-Nitrophenol	109	10.640	10.639	0.001	93	110985	100.0	103.4	
154 2,4-Dinitrotoluene	165	10.736	10.736	0.000	94	120180	50.0	51.4	
155 Dibenzofuran	168	10.784	10.784	0.000	96	487399	50.0	49.1	
158 2,3,4,6-Tetrachlorophenol	232	10.907	10.907	0.000	98	101889	50.0	51.3	
160 Diethyl phthalate	149	10.976	10.976	0.000	98	386244	50.0	51.2	
257 Hexadecane	57	10.987	10.987	0.000	97	292174	50.0	51.2	
162 4-Chlorophenyl phenyl ethe	204	11.126	11.126	0.000	90	198566	50.0	49.4	
164 4-Nitroaniline	138	11.136	11.136	0.000	85	105154	50.0	51.0	
161 Fluorene	166	11.147	11.147	0.000	94	406231	50.0	49.8	
166 4,6-Dinitro-2-methylphenol	198	11.174	11.174	0.000	86	134612	100.0	99.7	
169 Diphenylamine	169	11.238	11.238	0.000	97	594575	85.5	85.3	
167 N-Nitrosodiphenylamine	169	11.238	11.238	0.000	98	594575	100.0	100.3	
170 Azobenzene	77	11.286	11.286	0.000	98	439029	50.0	50.6	
168 1,2-Diphenylhydrazine	77	11.286	11.286	0.000	99	439029	50.0	50.6	
176 4-Bromophenyl phenyl ether	248	11.623	11.622	0.001	95	122557	50.0	49.8	
177 Hexachlorobenzene	284	11.719	11.719	0.000	97	152200	50.0	51.7	
180 Atrazine	200	11.740	11.740	0.000	93	103795	50.0	50.1	
181 Pentachlorophenol	266	11.895	11.895	0.000	94	178183	100.0	101.2	
263 n-Octadecane	57	11.895	11.900	-0.005	98	293146	50.0	51.4	
185 Phenanthrene	178	12.103	12.103	0.000	97	567467	50.0	49.9	
188 Anthracene	178	12.151	12.151	0.000	97	581961	50.0	49.8	
189 Carbazole	167	12.285	12.285	0.000	97	531706	50.0	49.8	
192 Di-n-butyl phthalate	149	12.547	12.547	0.000	100	636801	50.0	51.7	
197 Fluoranthene	202	13.199	13.198	0.000	99	616400	50.0	50.1	
198 Benzidine	184	13.279	13.279	0.000	98	244180	50.0	70.7	
199 Pyrene	202	13.418	13.417	0.001	96	633595	50.0	50.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
205 Butyl benzyl phthalate	149	13.898	13.898	0.000	99	286710	50.0	51.6	
210 Bis(2-ethylhexyl) phthalat	149	14.390	14.390	0.000	97	389164	50.0	53.6	
208 3,3'-Dichlorobenzidine	252	14.433	14.432	0.001	99	245525	50.0	53.2	
209 Benzo[a]anthracene	228	14.507	14.507	0.000	98	658834	50.0	51.2	
211 Chrysene	228	14.545	14.545	0.000	97	641875	50.0	51.5	
212 Di-n-octyl phthalate	149	15.020	15.020	0.000	100	663329	50.0	51.1	
213 Benzo[b]fluoranthene	252	15.683	15.683	0.000	97	657675	50.0	50.0	
214 Benzo[k]fluoranthene	252	15.715	15.715	0.000	98	734632	50.0	54.4	
217 Benzo[a]pyrene	252	16.121	16.121	0.000	97	628471	50.0	51.0	
220 Dibenz(a,h)anthracene	278	17.889	17.889	0.000	90	665320	50.0	48.2	
219 Indeno[1,2,3-cd]pyrene	276	17.894	17.894	0.000	98	771159	50.0	47.6	
221 Benzo[g,h,i]perylene	276	18.423	18.423	0.000	97	603766	50.0	46.5	
S 78 3-Methylphenol	1				0		25.0	51.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_L1SS_WRK_00013

Amount Added: 1.00

Units: mL

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 17-Mar-2016 13:23:32

Chrom Revision: 2.2 04-Mar-2016 14:36:24

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25632.D

Injection Date: 15-Mar-2016 14:18:30

Instrument ID: HP5973U

Operator ID: MKP

Lims ID: ICV - List1

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

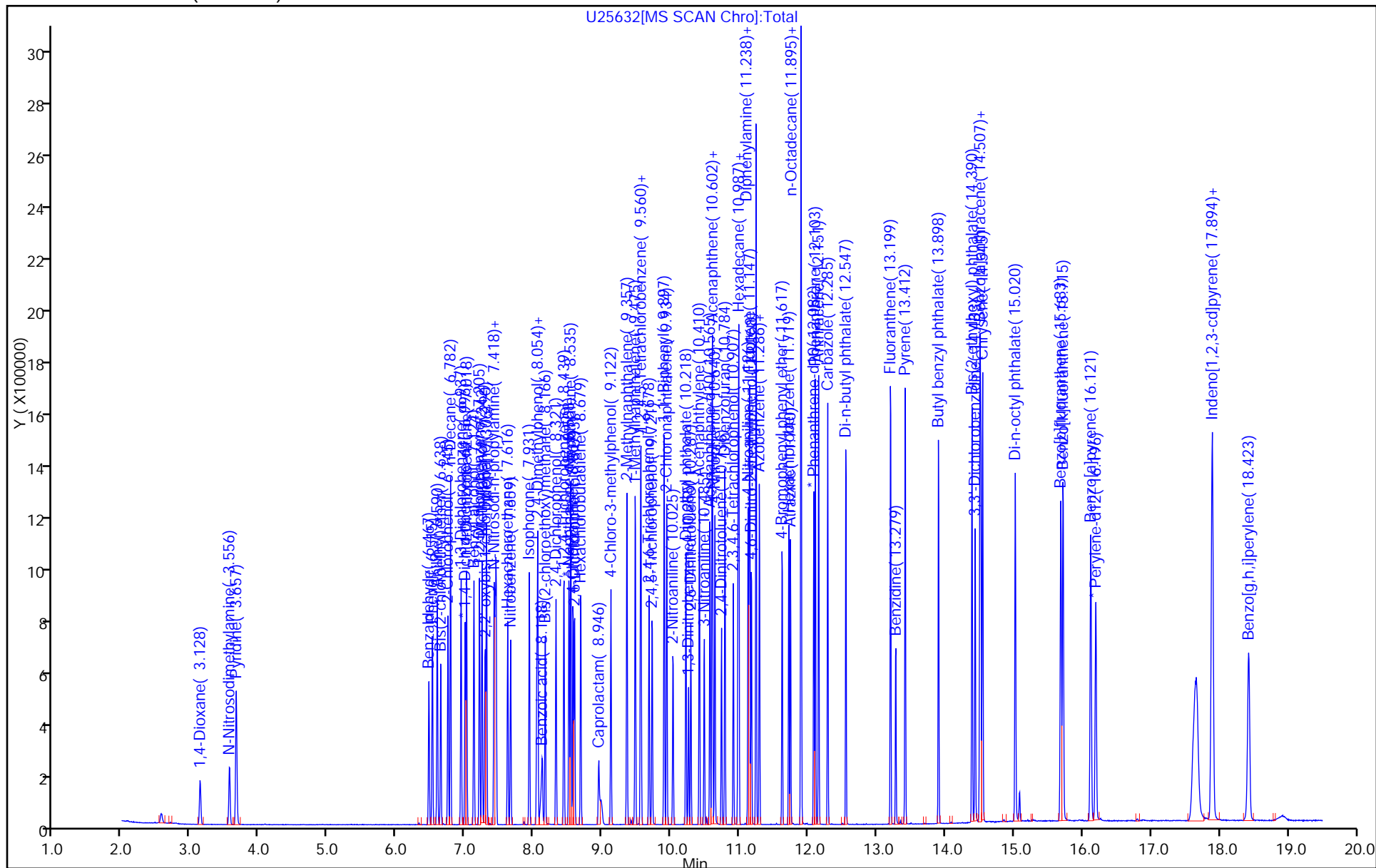
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25632.D

Injection Date: 15-Mar-2016 14:18:30

Instrument ID: HP5973U

Lims ID: ICV - List1

Client ID:

Operator ID: MKP

ALS Bottle#:

7

Worklist Smp#: 9

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

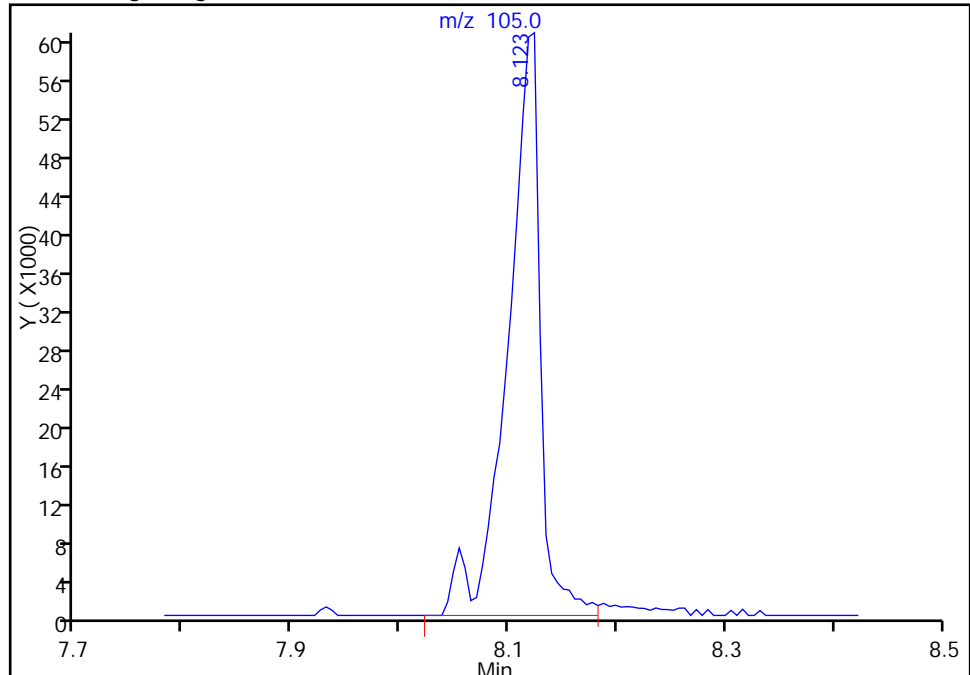
Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

119 Benzoic acid, CAS: 65-85-0

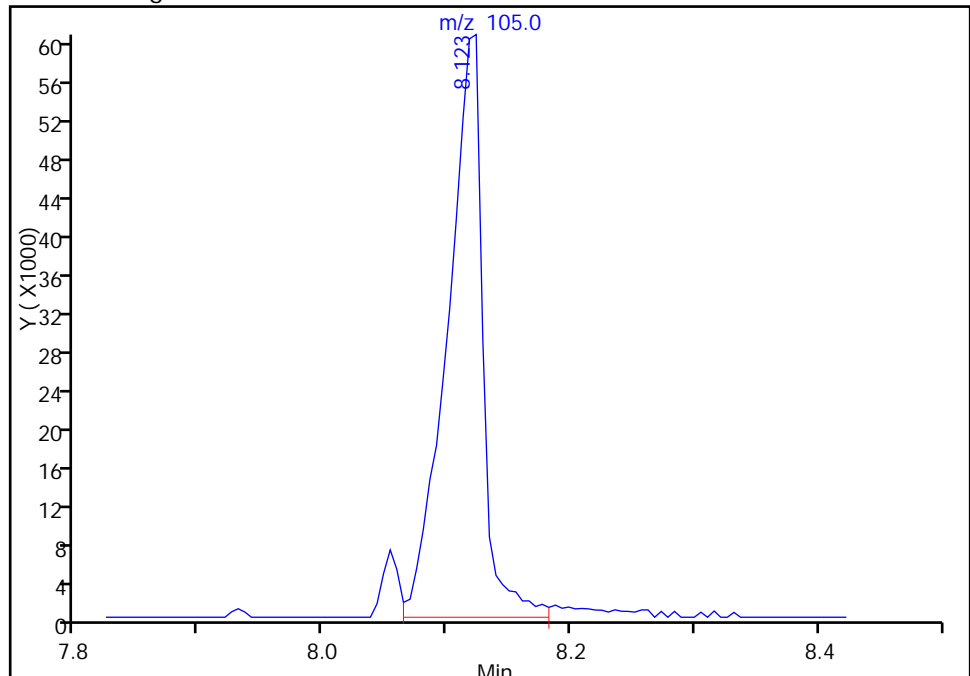
RT: 8.12
Area: 126600
Amount: 57.585591
Amount Units: ng/uL

Processing Integration Results



RT: 8.12
Area: 120866
Amount: 55.173975
Amount Units: ng/uL

Manual Integration Results



Reviewer: pagem, 16-Mar-2016 10:52:03

Audit Action: Split an Integrated Peak

Audit Reason: Peak Tail

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1

SDG No.: _____

Lab Sample ID: CCVIS 480-293176/3 Calibration Date: 03/30/2016 05:44

Instrument ID: HP5973U Calib Start Date: 03/15/2016 11:37

GC Column: RXI-5Sil MS ID: 0.25 (mm) Calib End Date: 03/15/2016 13:51

Lab File ID: U25857.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.6538	0.6436	0.0100	49200	50000	-1.6	50.0
N-Nitrosodimethylamine	Ave	0.8716	0.7523	0.0100	43200	50000	-13.7	25.0
Pyridine	Ave	1.225	1.271	0.0100	51900	50000	3.8	50.0
Benzaldehyde	Ave	0.3413	0.4878	0.0100	71400	50000	42.9*	40.0
Phenol	Ave	1.770	1.790	0.8000	50500	50000	1.1	20.0
Aniline	Ave	2.160	2.187	0.0100	50600	50000	1.3	50.0
Bis(2-chloroethyl)ether	Ave	1.453	1.433	0.7000	49300	50000	-1.4	20.0
2-Chlorophenol	Ave	1.415	1.424	0.8000	50300	50000	0.6	20.0
n-Decane	Ave	1.799	1.799	0.0100	50000	50000	0.0	40.0
1,3-Dichlorobenzene	Ave	1.563	1.538	0.0100	49200	50000	-1.6	20.0
1,4-Dichlorobenzene	Ave	1.568	1.562	0.0100	49800	50000	-0.4	20.0
Benzyl alcohol	Ave	0.9023	0.9044	0.0100	50100	50000	0.2	50.0
1,2-Dichlorobenzene	Ave	1.471	1.444	0.0100	49100	50000	-1.9	20.0
2-Methylphenol	Ave	1.259	1.263	0.7000	50100	50000	0.3	20.0
2,2'-oxybis[1-chloropropane]	Ave	2.021	1.952	0.0100	48300	50000	-3.4	20.0
Indene	Ave	2.523	2.486		49300	50000	-1.5	
4-Methylphenol	Ave	1.323	1.323	0.6000	50000	50000	0.0	20.0
N-Nitrosodi-n-propylamine	Ave	1.017	1.007	0.5000	49500	50000	-1.0	20.0
Acetophenone	Ave	1.907	1.836	0.0100	48100	50000	-3.7	40.0
Hexachloroethane	Ave	0.6192	0.5975	0.3000	48200	50000	-3.5	20.0
Nitrobenzene	Ave	0.3673	0.3774	0.2000	51400	50000	2.7	20.0
Isophorone	Ave	0.6567	0.6648	0.4000	50600	50000	1.2	20.0
2-Nitrophenol	Lin1		0.1866	0.1000	54500	50000	9.0	20.0
2,4-Dimethylphenol	Ave	0.3494	0.3491	0.2000	50000	50000	-0.0	20.0
Benzoic acid	Lin1		0.2457	0.0100	62400	50000	24.8	25.0
Bis(2-chloroethoxy)methane	Ave	0.4203	0.4176	0.3000	49700	50000	-0.6	20.0
2,4-Dichlorophenol	Ave	0.2750	0.2874	0.2000	52300	50000	4.5	20.0
1,2,4-Trichlorobenzene	Ave	0.3173	0.3198	0.0100	50400	50000	0.8	20.0
Naphthalene	Ave	1.009	0.998	0.7000	49500	50000	-1.1	20.0
4-Chloroaniline	Ave	0.4299	0.4268	0.0100	49600	50000	-0.7	20.0
2,6-Dichlorophenol	Ave	0.2760	0.2832	0.0100	51300	50000	2.6	50.0
Hexachlorobutadiene	Ave	0.1940	0.1974	0.0100	50900	50000	1.7	20.0
Caprolactam	Lin1		0.1081	0.0100	51900	50000	3.8	40.0
4-Chloro-3-methylphenol	Ave	0.2796	0.2906	0.2000	52000	50000	3.9	20.0
2-Methylnaphthalene	Ave	0.6460	0.6469	0.4000	50100	50000	0.1	20.0
1-Methylnaphthalene	Ave	0.6087	0.6059	0.0100	49800	50000	-0.5	40.0
Hexachlorocyclopentadiene	Lin1		0.4108	0.0500	46500	50000	-7.0	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.5750	0.5782	0.0100	50300	50000	0.5	40.0
2,4,6-Trichlorophenol	Lin1		0.3793	0.2000	51500	50000	3.1	20.0
2,4,5-Trichlorophenol	Lin1		0.3890	0.2000	50900	50000	1.8	20.0
1,1'-Biphenyl	Ave	1.433	1.419	0.0100	49500	50000	-1.0	40.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1

SDG No.: _____

Lab Sample ID: CCVIS 480-293176/3 Calibration Date: 03/30/2016 05:44

Instrument ID: HP5973U Calib Start Date: 03/15/2016 11:37

GC Column: RXI-5Sil MS ID: 0.25 (mm) Calib End Date: 03/15/2016 13:51

Lab File ID: U25857.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Chloronaphthalene	Ave	1.153	1.144	0.8000	49600	50000	-0.8	25.0
2-Nitroaniline	Lin1		0.3539	0.0100	50800	50000	1.6	20.0
Dimethyl phthalate	Ave	1.266	1.280	0.0100	50600	50000	1.1	20.0
1,3-Dinitrobenzene	Lin1		0.1195	0.0100	57500	50000	15.0	50.0
2,6-Dinitrotoluene	Lin1		0.3029	0.2000	52200	50000	4.5	20.0
Acenaphthylene	Ave	1.684	1.683	0.9000	50000	50000	-0.0	20.0
3-Nitroaniline	Lin1		0.3251	0.0100	51200	50000	2.4	20.0
2,4-Dinitrophenol	Lin1		0.1704	0.0100	114000	100000	14.3	20.0
Acenaphthene	Ave	1.123	1.133	0.0100	50400	50000	0.8	20.0
4-Nitrophenol	Lin1		0.1783	0.0100	102000	100000	2.0	20.0
2,4-Dinitrotoluene	Lin1		0.4178	0.0100	54700	50000	9.4	20.0
Dibenzofuran	Ave	1.616	1.619	0.8000	50100	50000	0.2	20.0
2,3,4,6-Tetrachlorophenol	Lin1		0.3348	0.0100	51700	50000	3.4	40.0
Diethyl phthalate	Ave	1.228	1.259	0.0100	51300	50000	2.5	20.0
Hexadecane	Ave	0.9296	0.9092	0.0100	48900	50000	-2.2	40.0
4-Chlorophenyl phenyl ether	Ave	0.6546	0.6713	0.4000	51300	50000	2.6	20.0
4-Nitroaniline	Lin1		0.3523	0.0100	52400	50000	4.7	20.0
Fluorene	Ave	1.327	1.337	0.9000	50400	50000	0.7	20.0
4,6-Dinitro-2-methylphenol	Lin1		0.1525	0.0100	114000	100000	13.8	20.0
Diphenylamine	Ave	0.6844	0.6688	0.0100	41600	42500	-2.3	50.0
N-Nitrosodiphenylamine	Ave	0.5822	0.5689	0.0100	48900	50000	-2.3	20.0
1,2-Diphenylhydrazine	Ave	0.8520	0.7970	0.0100	46800	50000	-6.5	25.0
trans-Azobenzene	Ave	0.8520	0.7970	0.0100	46800	50000	-6.5	40.0
4-Bromophenyl phenyl ether	Ave	0.2415	0.2462	0.1000	51000	50000	1.9	20.0
Hexachlorobenzene	Ave	0.2892	0.2966	0.1000	51300	50000	2.5	20.0
Atrazine	Ave	0.3372	0.3630	0.0100	53800	50000	7.6	25.0
n-Octadecane	Ave	0.5598	0.5306	0.0100	47400	50000	-5.2	40.0
Pentachlorophenol	Lin1		0.1517	0.0500	88500	100000	-11.5	20.0
Phenanthrene	Ave	1.116	1.112	0.7000	49800	50000	-0.4	20.0
Anthracene	Ave	1.148	1.145	0.7000	49900	50000	-0.3	20.0
Carbazole	Ave	1.048	1.060	0.0100	50500	50000	1.1	20.0
Di-n-butyl phthalate	Ave	1.209	1.256	0.0100	52000	50000	4.0	20.0
Fluoranthene	Ave	1.208	1.299	0.6000	53800	50000	7.6	20.0
Benzidine	Lin1		0.3569	0.0100	58700	50000	17.3	25.0
Pyrene	Ave	1.116	1.033	0.6000	46300	50000	-7.5	20.0
Butyl benzyl phthalate	Lin1		0.4861	0.0100	49300	50000	-1.4	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6441	0.7050	0.0100	54700	50000	9.4	20.0
3,3'-Dichlorobenzidine	Lin1		0.4627	0.0100	56400	50000	12.8	20.0
Benzo[a]anthracene	Ave	1.143	1.166	0.8000	51000	50000	2.0	20.0
Chrysene	Ave	1.107	1.111	0.7000	50200	50000	0.3	20.0
Di-n-octyl phthalate	Lin1		1.248	0.0100	54000	50000	8.1	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-293176/3 Calibration Date: 03/30/2016 05:44
 Instrument ID: HP5973U Calib Start Date: 03/15/2016 11:37
 GC Column: RXI-5Sil MS ID: 0.25 (mm) Calib End Date: 03/15/2016 13:51
 Lab File ID: U25857.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzo[b]fluoranthene	Ave	1.171	1.155	0.7000	49300	50000	-1.4	20.0
Benzo[k]fluoranthene	Ave	1.202	1.175	0.7000	48900	50000	-2.2	20.0
Benzo[a]pyrene	Ave	1.096	1.110	0.7000	50600	50000	1.2	20.0
Dibenz(a,h)anthracene	Lin1		1.270	0.4000	51500	50000	3.0	20.0
Indeno[1,2,3-cd]pyrene	Lin1		1.483	0.5000	51300	50000	2.6	20.0
Benzo[g,h,i]perylene	Lin1		1.260	0.5000	54200	50000	8.5	20.0
2-Fluorophenol (Surr)	Ave	1.383	1.416	0.0100	51200	50000	2.4	25.0
Phenol-d5 (Surr)	Ave	1.684	1.732	0.0100	51400	50000	2.8	25.0
Nitrobenzene-d5 (Surr)	Ave	0.3979	0.3935	0.0100	49500	50000	-1.1	25.0
2-Fluorobiphenyl	Ave	1.333	1.339	0.0100	50200	50000	0.5	25.0
2,4,6-Tribromophenol (Surr)	Lin1		0.1609	0.0100	53000	50000	5.9	25.0
p-Terphenyl-d14 (Surr)	Ave	0.8799	0.8422	0.0100	47900	50000	-4.3	25.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25857.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 30-Mar-2016 05:44:30 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0051640-003
 Misc. Info.: 480-97201-A-1-A
 Operator ID: CAS Instrument ID: HP5973U
 Sublist: chrom-U-8270*sub56
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 30-Mar-2016 06:34:05 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: sosinskic

Date: 30-Mar-2016 06:34:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.985	6.985	0.000	96	133486	40.0	40.0	
* 2 Naphthalene-d8	136	8.497	8.497	0.000	99	512909	40.0	40.0	
* 3 Acenaphthene-d10	164	10.559	10.559	0.000	98	281288	40.0	40.0	
* 4 Phenanthrene-d10	188	12.071	12.071	0.000	97	480982	40.0	40.0	
* 5 Chrysene-d12	240	14.507	14.507	0.000	97	624835	40.0	40.0	
* 6 Perylene-d12	264	16.179	16.179	0.000	97	719375	40.0	40.0	
\$ 9 2-Fluorophenol	112	5.404	5.404	0.000	96	236267	50.0	51.2	
\$ 10 Phenol-d5	99	6.505	6.505	0.000	86	288942	50.0	51.4	
\$ 11 Nitrobenzene-d5	82	7.627	7.627	0.000	96	252293	50.0	49.5	
\$ 12 2-Fluorobiphenyl	172	9.763	9.763	0.000	100	470752	50.0	50.2	
\$ 13 2,4,6-Tribromophenol	330	11.388	11.388	0.000	90	96712	50.0	53.0	
\$ 14 p-Terphenyl-d14	244	13.498	13.498	0.000	96	657812	50.0	47.9	
80 1,4-Dioxane	88	3.107	3.107	0.000	98	107388	50.0	49.2	
81 N-Nitrosodimethylamine	42	3.540	3.540	0.000	95	125529	50.0	43.2	
82 Pyridine	52	3.636	3.636	0.000	92	212140	50.0	51.9	
88 Benzaldehyde	77	6.457	6.457	0.000	96	81384	50.0	71.4	
89 Phenol	94	6.521	6.521	0.000	98	298636	50.0	50.5	
90 Aniline	93	6.579	6.579	0.000	97	364987	50.0	50.6	
91 Bis(2-chloroethyl)ether	93	6.628	6.628	0.000	98	239150	50.0	49.3	
93 2-Chlorophenol	128	6.740	6.740	0.000	97	237581	50.0	50.3	
258 n-Decane	57	6.766	6.766	0.000	98	300231	50.0	50.0	
94 1,3-Dichlorobenzene	146	6.921	6.921	0.000	97	256552	50.0	49.2	
95 1,4-Dichlorobenzene	146	7.002	7.002	0.000	93	260567	50.0	49.8	
96 Benzyl alcohol	108	7.114	7.114	0.000	93	150904	50.0	50.1	
97 1,2-Dichlorobenzene	146	7.194	7.194	0.000	96	240929	50.0	49.1	
98 2-Methylphenol	108	7.242	7.242	0.000	97	210726	50.0	50.1	
99 2,2'-oxybis[1-chloropropan	45	7.274	7.274	0.000	95	325624	50.0	48.3	
249 Indene	115	7.295	7.295	0.000	97	414770	50.0	49.3	
102 4-Methylphenol	108	7.413	7.413	0.000	95	220825	50.0	50.0	
101 N-Nitrosodi-n-propylamine	70	7.424	7.424	0.000	87	168006	50.0	49.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
104 Acetophenone	105	7.440	7.440	0.000	97	306416	50.0	48.1	
106 Hexachloroethane	117	7.600	7.600	0.000	98	99691	50.0	48.2	
107 Nitrobenzene	77	7.648	7.648	0.000	87	241957	50.0	51.4	
110 Isophorone	82	7.920	7.920	0.000	99	426240	50.0	50.6	
111 2-Nitrophenol	139	8.033	8.033	0.000	93	119639	50.0	54.5	
112 2,4-Dimethylphenol	107	8.049	8.049	0.000	94	223843	50.0	50.0	
119 Benzoic acid	105	8.123	8.123	0.000	54	157493	50.0	62.4	M
115 Bis(2-chloroethoxy)methane	93	8.155	8.155	0.000	99	267743	50.0	49.7	
117 2,4-Dichlorophenol	162	8.316	8.316	0.000	94	184286	50.0	52.3	
120 1,2,4-Trichlorobenzene	180	8.428	8.428	0.000	94	205048	50.0	50.4	
121 Naphthalene	128	8.524	8.524	0.000	98	640162	50.0	49.5	
123 4-Chloroaniline	127	8.561	8.561	0.000	96	273658	50.0	49.6	
124 2,6-Dichlorophenol	162	8.583	8.583	0.000	97	181541	50.0	51.3	
126 Hexachlorobutadiene	225	8.668	8.668	0.000	96	126540	50.0	50.9	
127 Caprolactam	113	8.941	8.941	0.000	80	69328	50.0	51.9	
131 4-Chloro-3-methylphenol	107	9.122	9.122	0.000	92	186337	50.0	52.0	
133 2-Methylnaphthalene	142	9.347	9.347	0.000	92	414728	50.0	50.1	
252 1-Methylnaphthalene	142	9.464	9.464	0.000	97	388479	50.0	49.8	
136 Hexachlorocyclopentadiene	237	9.544	9.544	0.000	96	144448	50.0	46.5	
138 1,2,4,5-Tetrachlorobenzene	216	9.550	9.550	0.000	97	203288	50.0	50.3	
139 2,4,6-Trichlorophenol	196	9.673	9.673	0.000	95	133349	50.0	51.5	
140 2,4,5-Trichlorophenol	196	9.721	9.721	0.000	94	136789	50.0	50.9	
144 1,1'-Biphenyl	154	9.886	9.886	0.000	96	499031	50.0	49.5	
143 2-Chloronaphthalene	162	9.929	9.929	0.000	97	402072	50.0	49.6	
145 2-Nitroaniline	65	10.020	10.020	0.000	82	124422	50.0	50.8	
147 Dimethyl phthalate	163	10.207	10.207	0.000	99	449980	50.0	50.6	
50 1,3-Dinitrobenzene	168	10.250	10.250	0.000	89	76591	50.0	57.5	
148 2,6-Dinitrotoluene	165	10.282	10.282	0.000	96	106512	50.0	52.2	
149 Acenaphthylene	152	10.405	10.405	0.000	98	591832	50.0	50.0	
150 3-Nitroaniline	138	10.479	10.479	0.000	93	114312	50.0	51.2	
152 2,4-Dinitrophenol	184	10.592	10.592	0.000	82	119842	100.0	114.3	
151 Acenaphthene	153	10.592	10.592	0.000	94	398358	50.0	50.4	
153 4-Nitrophenol	109	10.645	10.645	0.000	93	125369	100.0	102.0	
154 2,4-Dinitrotoluene	165	10.730	10.730	0.000	95	146911	50.0	54.7	
155 Dibenzofuran	168	10.778	10.778	0.000	96	569417	50.0	50.1	
158 2,3,4,6-Tetrachlorophenol	232	10.901	10.901	0.000	97	117706	50.0	51.7	
160 Diethyl phthalate	149	10.965	10.965	0.000	98	442798	50.0	51.3	
257 Hexadecane	57	10.976	10.976	0.000	97	319683	50.0	48.9	
162 4-Chlorophenyl phenyl ethe	204	11.115	11.115	0.000	88	236049	50.0	51.3	
164 4-Nitroaniline	138	11.131	11.131	0.000	87	123886	50.0	52.4	
161 Fluorene	166	11.136	11.136	0.000	94	470168	50.0	50.4	
166 4,6-Dinitro-2-methylphenol	198	11.163	11.163	0.000	90	183412	100.0	113.8	
167 N-Nitrosodiphenylamine	169	11.233	11.233	0.000	98	342041	50.0	48.9	
169 Diphenylamine	169	11.233	11.233	0.000	97	342041	42.5	41.6	
168 1,2-Diphenylhydrazine	77	11.281	11.281	0.000	99	479157	50.0	46.8	
170 Azobenzene	77	11.281	11.281	0.000	99	479157	50.0	46.8	
176 4-Bromophenyl phenyl ether	248	11.612	11.612	0.000	94	148000	50.0	51.0	
177 Hexachlorobenzene	284	11.708	11.708	0.000	97	178314	50.0	51.3	
180 Atrazine	200	11.735	11.735	0.000	93	127629	50.0	53.8	
181 Pentachlorophenol	266	11.890	11.890	0.000	95	182428	100.0	88.5	
263 n-Octadecane	57	11.890	11.890	0.000	98	319038	50.0	47.4	
185 Phenanthrene	178	12.098	12.098	0.000	97	668291	50.0	49.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
188 Anthracene	178	12.146	12.146	0.000	97	688456	50.0	49.9	
189 Carbazole	167	12.280	12.280	0.000	98	637125	50.0	50.5	
192 Di-n-butyl phthalate	149	12.541	12.541	0.000	100	755350	50.0	52.0	
197 Fluoranthene	202	13.193	13.193	0.000	96	781199	50.0	53.8	
198 Benzidine	184	13.268	13.268	0.000	99	278739	50.0	58.7	
199 Pyrene	202	13.407	13.407	0.000	97	806436	50.0	46.3	
205 Butyl benzyl phthalate	149	13.893	13.893	0.000	98	379628	50.0	49.3	
210 Bis(2-ethylhexyl) phthalat	149	14.379	14.379	0.000	97	550595	50.0	54.7	
208 3,3'-Dichlorobenzidine	252	14.427	14.427	0.000	99	361375	50.0	56.4	
209 Benzo[a]anthracene	228	14.497	14.497	0.000	98	910941	50.0	51.0	
211 Chrysene	228	14.534	14.534	0.000	97	867578	50.0	50.2	
212 Di-n-octyl phthalate	149	15.004	15.004	0.000	100	974473	50.0	54.0	
213 Benzo[b]fluoranthene	252	15.672	15.672	0.000	97	1038217	50.0	49.3	
214 Benzo[k]fluoranthene	252	15.704	15.704	0.000	98	1056992	50.0	48.9	
217 Benzo[a]pyrene	252	16.110	16.110	0.000	97	998024	50.0	50.6	
220 Dibenz(a,h)anthracene	278	17.873	17.873	0.000	90	1142156	50.0	51.5	
219 Indeno[1,2,3-cd]pyrene	276	17.884	17.884	0.000	98	1333801	50.0	51.3	
221 Benzo[g,h,i]perylene	276	18.407	18.407	0.000	97	1133091	50.0	54.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

MB_LIST1_WRK_00304

Amount Added: 1.00

Units: mL

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

Chrom Revision: 2.2 04-Mar-2016 14:36:24

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25857.D

Injection Date: 30-Mar-2016 05:44:30

Instrument ID: HP5973U

Operator ID: CAS

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

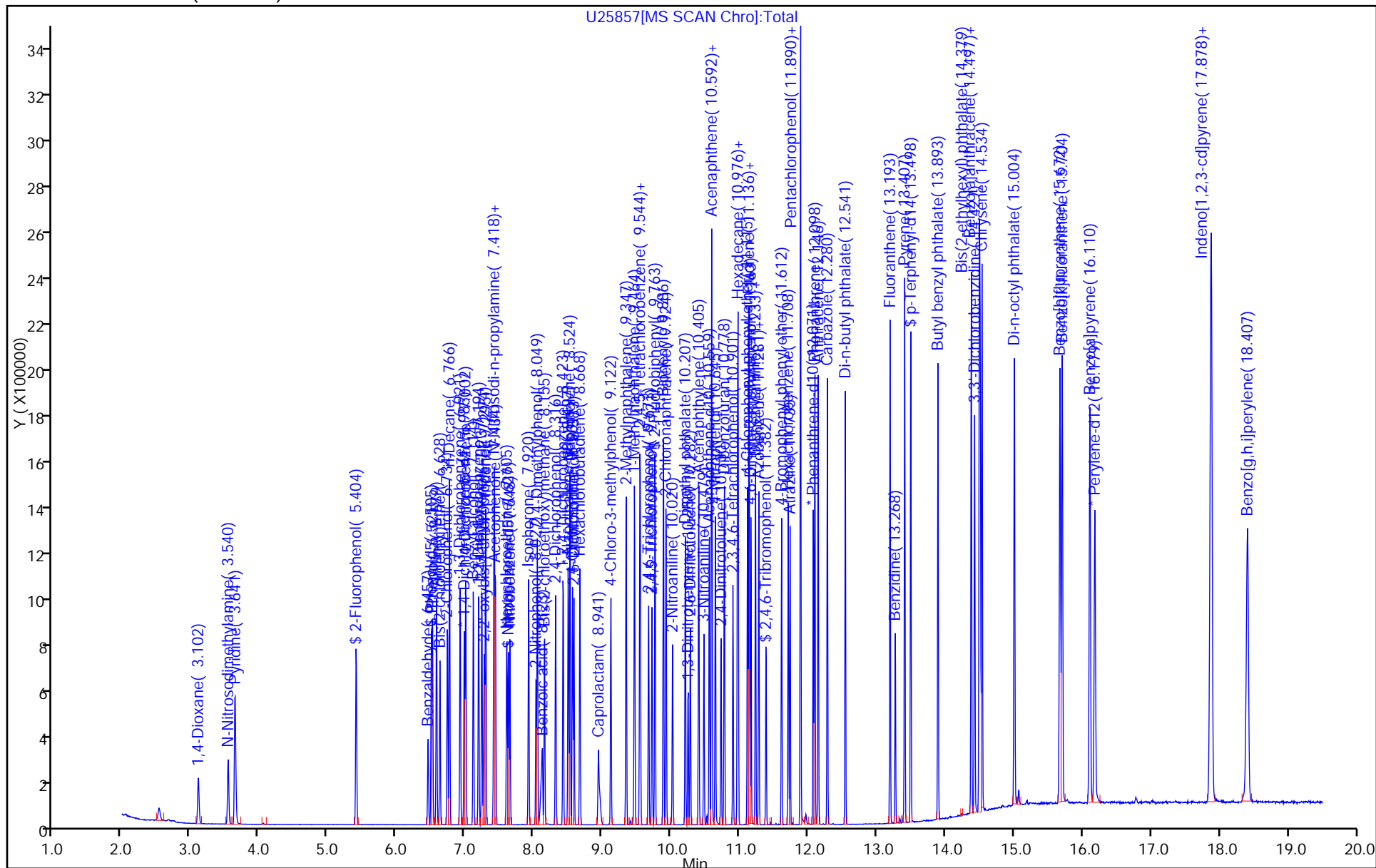
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25857.D

Injection Date: 30-Mar-2016 05:44:30

Instrument ID: HP5973U

Lims ID: CCVIS

Client ID:

Operator ID: CAS

ALS Bottle#:

3

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)

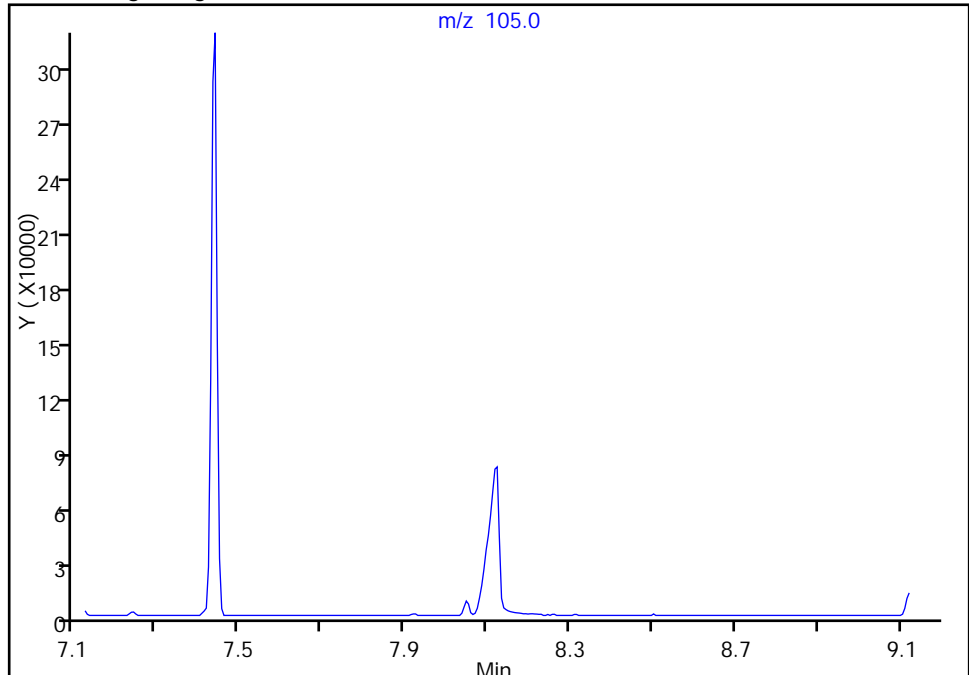
Detector: MS SCAN

119 Benzoic acid, CAS: 65-85-0

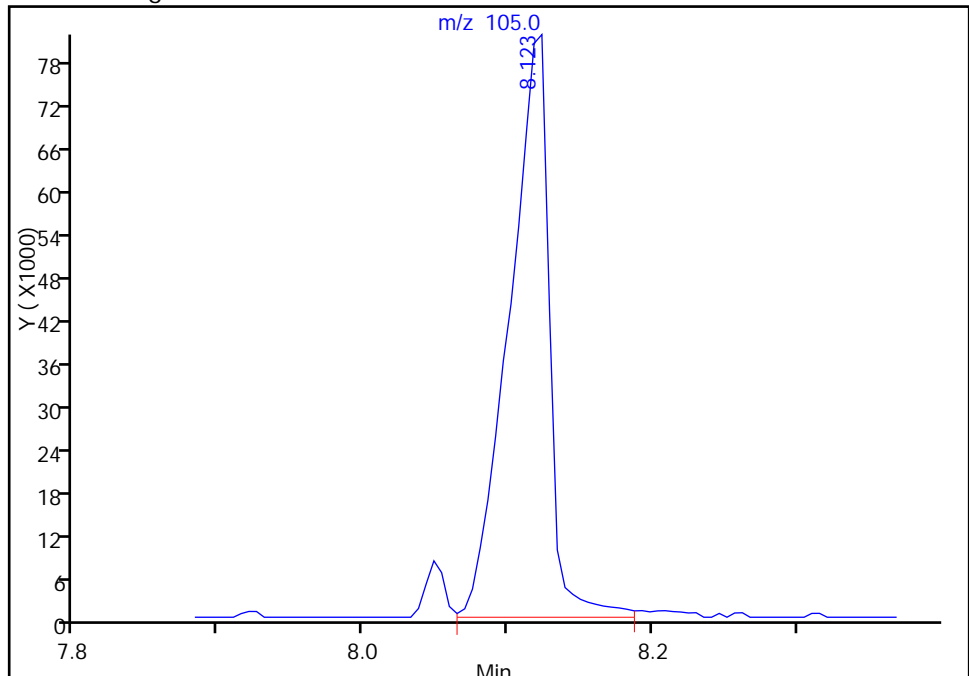
Not Detected

Expected RT: 8.12

Processing Integration Results



Manual Integration Results



Reviewer: sosinskic, 30-Mar-2016 06:34:05

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25625.D
 Lims ID: DFTPP
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 15-Mar-2016 11:02:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: DFTPP
 Misc. Info.: DFTPP
 Operator ID: MKP Instrument ID: HP5973U
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 15-Mar-2016 11:39:11 Calib Date: 04-Mar-2016 01:02:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20160303-50977.b\U25338.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK033

First Level Reviewer: pagem

Date: 15-Mar-2016 11:39:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
108 Pentachlorophenol_T	266	11.890	11.890	0.000	84	47733	NR	NR	
114 DFTPP									
134 4,4'-DDE	246		13.548					ND	
130 Benzidine_T	184	13.279	13.279	0.000	98	259112	NR	NR	
137 4,4'-DDD	235		13.730					ND	
141 4,4'-DDT	235	14.026	14.026	0.000	95	137239	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MB_DFTPP_WRK_00271

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25625.D

Injection Date: 15-Mar-2016 11:02:30

Instrument ID: HP5973U

Lims ID: DFTPP

Client ID:

Operator ID: MKP

ALS Bottle#: 2 Worklist Smp#: 2

Injection Vol: 1.0 ul

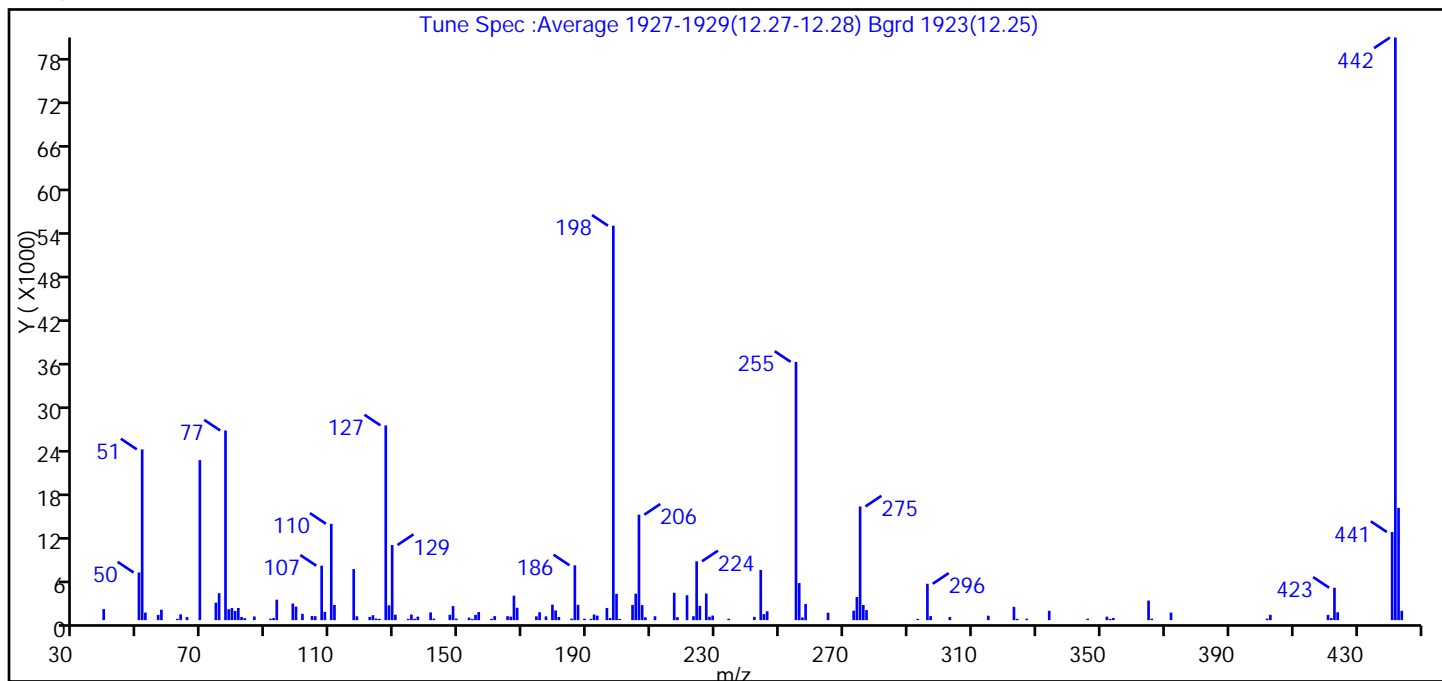
Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Tune Method: DFTPP Method 8270D, BP 198

114 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (67.7)
51	10-80% of the base peak	43.3
68	<2% of mass 69	0.0 (0.0)
69	Present	40.6
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	49.4
197	<2% of mass 198	0.5
199	5-9% of mass 198	6.7
275	10-60% of the base peak	28.8
365	>1% of mass 198	5.0
441	present but <24% of mass 442	22.3 (15.1)
442	base peak, or >50% of 198	147.7
443	15-24% of mass 442	28.5 (19.3)

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25625.D\U-8270.rslt\spectra.d
Injection Date: 15-Mar-2016 11:02:30
Spectrum: Tune Spec :Average 1927-1929(12.27-12.28) Bgrd 1923(12.25)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 135

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1530	122.00	442	186.00	7552	258.00	2215
50.00	6560	123.00	677	187.00	2109	265.00	1024
51.00	23528	124.00	224	189.00	193	273.00	1311
52.00	1046	125.00	171	191.00	172	274.00	3191
56.00	724	127.00	26832	192.00	771	275.00	15661
57.00	1441	128.00	2042	193.00	619	276.00	2087
62.00	183	129.00	10351	196.00	1679	277.00	1388
63.00	796	130.00	752	197.00	287	293.00	176
65.00	423	134.00	173	198.00	54344	296.00	5012
69.00	22048	135.00	767	199.00	3620	297.00	563
74.00	2398	136.00	187	200.00	168	303.00	428
75.00	3710	137.00	476	204.00	2099	315.00	614
77.00	26128	141.00	1065	205.00	3646	323.00	1837
78.00	1504	142.00	206	206.00	14528	324.00	178
79.00	1660	147.00	733	207.00	2068	327.00	206
80.00	1266	148.00	1937	208.00	393	334.00	1290
81.00	1679	149.00	206	211.00	534	346.00	201
82.00	433	153.00	352	217.00	3775	352.00	483
83.00	263	154.00	170	218.00	405	353.00	167
86.00	505	155.00	727	221.00	3428	354.00	296
91.00	189	156.00	1114	223.00	548	365.00	2697
92.00	287	160.00	187	224.00	8105	366.00	202
93.00	2818	161.00	549	225.00	1976	372.00	1044
98.00	2298	165.00	546	227.00	3665	402.00	206
99.00	1862	166.00	481	228.00	462	403.00	733
101.00	870	167.00	3374	229.00	632	421.00	727
104.00	574	168.00	1702	234.00	190	422.00	282
105.00	545	174.00	527	242.00	455	423.00	4464
107.00	7499	175.00	1088	244.00	6926	424.00	1082
108.00	1143	177.00	523	245.00	834	441.00	12145
110.00	13275	179.00	2138	246.00	1227	442.00	80280
111.00	2089	180.00	1342	255.00	35584	443.00	15470
117.00	7035	181.00	436	256.00	5108	444.00	1288

Report Date: 15-Mar-2016 11:39:13

Chrom Revision: 2.2 02-Dec-2015 11:51:48

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25625.D\U-8270.rslt\spectra.d

Injection Date: 15-Mar-2016 11:02:30

Spectrum: Tune Spec :Average 1927-1929(12.27-12.28) Bgrd 1923(12.25)

Base Peak: 442.00

Minimum % Base Peak: 0

Number of Points: 135

m/z	Y	m/z	Y	m/z	Y	m/z	Y
118.00	532	185.00	201	257.00	368		

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25625.D
Injection Date: 15-Mar-2016 11:02:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: MKP ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

141 4,4'-DDT, Detector: MS SCAN

SW-846 Method

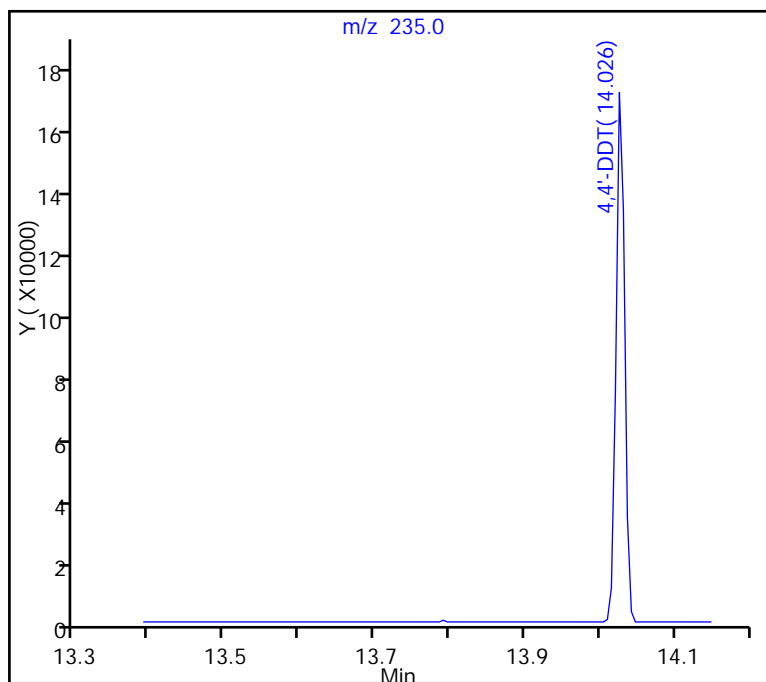
%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

141 4,4'-DDT, Area = 137239

137 4,4'-DDD, Area = 0

134 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25625.D

Injection Date: 15-Mar-2016 11:02:30

Instrument ID: HP5973U

Lims ID: DFTPP

Client ID:

Operator ID: MKP

ALS Bottle#: 2 Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

130 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =

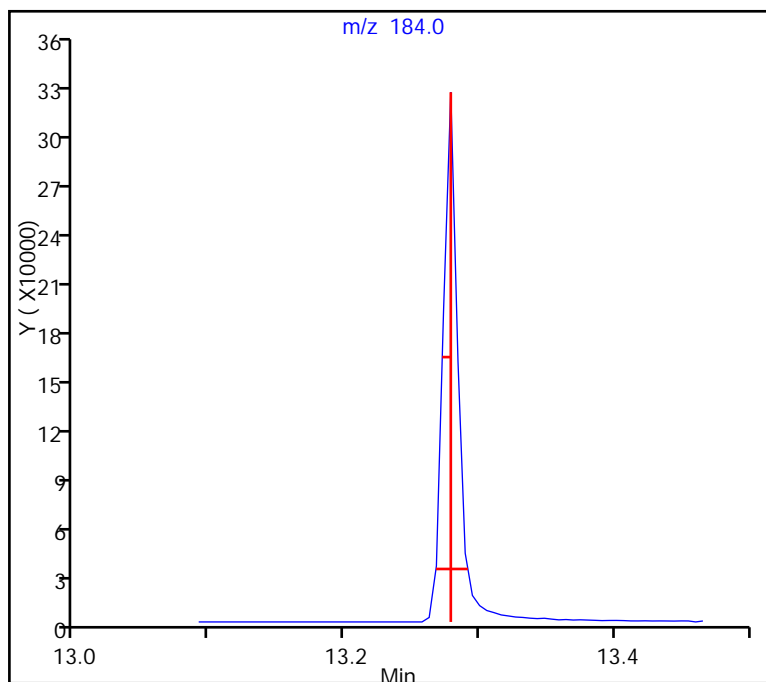
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.013 (min.)

Front Width = 0.011 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00

Passed



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25625.D

Injection Date: 15-Mar-2016 11:02:30

Instrument ID: HP5973U

Lims ID: DFTPP

Client ID:

Operator ID: MKP

ALS Bottle#: 2 Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

108 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =

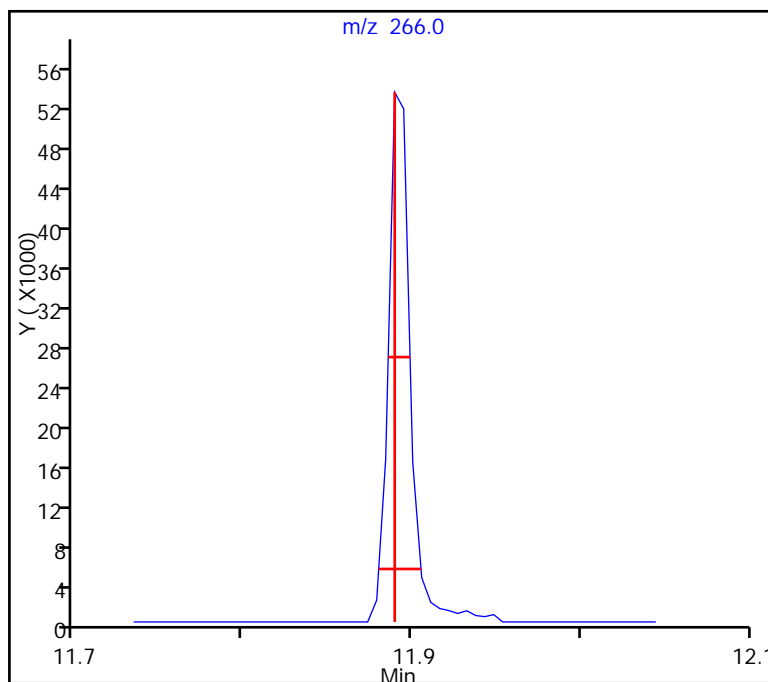
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.016 (min.)

Front Width = 0.010 (min.)

Tailing Factor = 1.6, Max. Tailing < 2.00

Passed



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25856.D
 Lims ID: DFTPP
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 30-Mar-2016 05:17:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: dftpp
 Misc. Info.: 480-97201-A-1-A
 Operator ID: CAS Instrument ID: HP5973U
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 30-Mar-2016 05:39:44 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK005

First Level Reviewer: sosinskic

Date: 30-Mar-2016 05:39:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
108 Pentachlorophenol_T	266	11.884	11.884	0.000	94	59796	NR	NR	
114 DFTPP									
130 Benzidine_T	184	13.273	13.273	0.000	99	462243	NR	NR	
134 4,4'-DDE	246		13.548					ND	
137 4,4'-DDD	235		13.781					ND	
141 4,4'-DDT	235	14.021	14.021	0.000	99	249351	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MB_DFTPP_WRK_00271

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25856.D

Injection Date: 30-Mar-2016 05:17:30

Instrument ID: HP5973U

Lims ID: DFTPP

Client ID:

Operator ID: CAS

ALS Bottle#: 2 Worklist Smp#: 2

Injection Vol: 1.0 ul

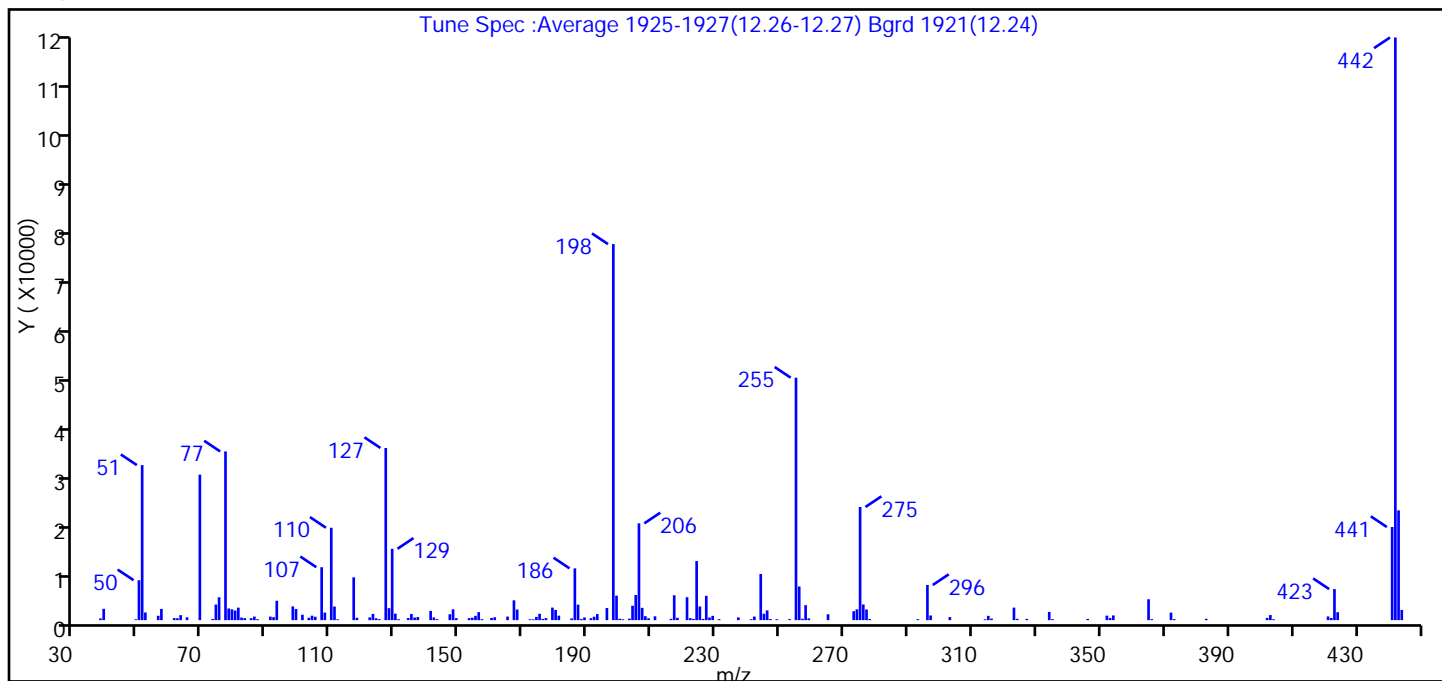
Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

Tune Method: DFTPP Method 8270D, BP 198

114 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (64.5)
51	10-80% of the base peak	41.2
68	<2% of mass 69	0.0 (0.0)
69	Present	38.7
70	<2% of mass 69	0.0 (0.0)
127	10-80% of the base peak	45.8
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.5
275	10-60% of the base peak	30.1
365	>1% of mass 198	5.6
441	present but <24% of mass 442	24.8 (16.0)
442	base peak, or >50% of 198	154.9
443	15-24% of mass 442	29.2 (18.8)

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25856.D\U-8270.rslt\spectra.d
Injection Date: 30-Mar-2016 05:17:30
Spectrum: Tune Spec :Average 1925-1927(12.26-12.27) Bgrd 1921(12.24)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 167

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	345	122.00	563	189.00	553	258.00	3021
39.00	2289	123.00	1267	191.00	387	259.00	356
49.00	168	124.00	381	192.00	694	265.00	1190
50.00	8073	125.00	201	193.00	1225	273.00	1813
51.00	31360	127.00	34824	196.00	2463	274.00	2183
52.00	1555	128.00	2422	198.00	76056	275.00	22888
56.00	880	129.00	14437	199.00	4949	276.00	3168
57.00	2272	130.00	1313	200.00	274	277.00	2154
61.00	416	131.00	191	201.00	170	278.00	236
62.00	389	134.00	425	203.00	305	293.00	202
63.00	1015	135.00	1257	204.00	2916	296.00	7109
65.00	577	136.00	534	205.00	5078	297.00	943
69.00	29432	137.00	625	206.00	19576	303.00	628
73.00	243	141.00	1873	207.00	2488	314.00	176
74.00	3153	142.00	538	208.00	802	315.00	872
75.00	4626	143.00	197	209.00	382	316.00	319
77.00	34120	147.00	1192	211.00	775	323.00	2536
78.00	2360	148.00	2191	216.00	270	324.00	268
79.00	2183	149.00	397	217.00	5032	327.00	259
80.00	1952	153.00	404	218.00	482	334.00	1668
81.00	2527	154.00	477	221.00	4637	335.00	200
82.00	516	155.00	867	222.00	409	346.00	252
83.00	411	156.00	1619	223.00	260	352.00	914
85.00	403	157.00	205	224.00	11943	353.00	421
86.00	725	160.00	453	225.00	2769	354.00	955
87.00	206	161.00	578	226.00	248	365.00	4227
91.00	711	165.00	720	227.00	4922	366.00	205
92.00	596	167.00	4008	228.00	522	372.00	1526
93.00	3919	168.00	2145	229.00	868	373.00	205
98.00	2782	172.00	176	231.00	197	383.00	271
99.00	2260	173.00	167	237.00	555	402.00	451
101.00	1103	174.00	660	241.00	187	403.00	1034
103.00	477	175.00	1291	242.00	727	404.00	194

Report Date: 30-Mar-2016 05:39:45

Chrom Revision: 2.2 04-Mar-2016 14:36:24

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25856.D\U-8270.rslt\spectra.d

Injection Date: 30-Mar-2016 05:17:30

Spectrum: Tune Spec :Average 1925-1927(12.26-12.27) Bgrd 1921(12.24)

Base Peak: 442.00

Minimum % Base Peak: 0

Number of Points: 167

m/z	Y	m/z	Y	m/z	Y	m/z	Y
104.00	901	176.00	252	244.00	9335	421.00	746
105.00	684	177.00	420	245.00	1299	422.00	443
107.00	10707	179.00	2536	246.00	1976	423.00	6281
108.00	1535	180.00	2069	247.00	222	424.00	1606
110.00	18688	181.00	909	249.00	182	441.00	18840
111.00	2752	185.00	348	253.00	213	442.00	117848
112.00	175	186.00	10472	255.00	49040	443.00	22200
117.00	8664	187.00	3133	256.00	6810	444.00	2053
118.00	480	188.00	226	257.00	279		

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25856.D
Injection Date: 30-Mar-2016 05:17:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: CAS ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

141 4,4'-DDT, Detector: MS SCAN

SW-846 Method

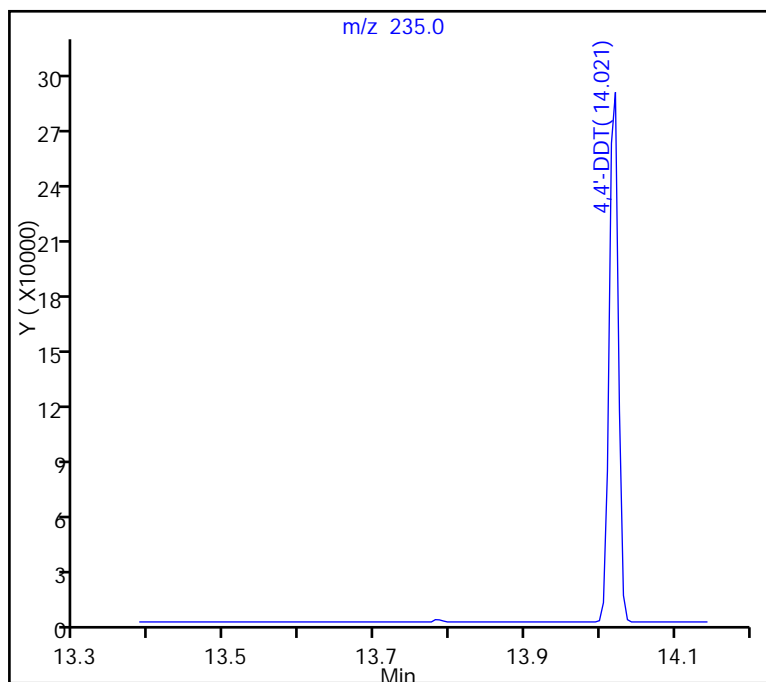
%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

141 4,4'-DDT, Area = 249351

137 4,4'-DDD, Area = 0

134 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25856.D
Injection Date: 30-Mar-2016 05:17:30 Instrument ID: HP5973U
Lims ID: DFTPP
Client ID:
Operator ID: CAS ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: U-8270 Limit Group: MB - 8270D ICAL

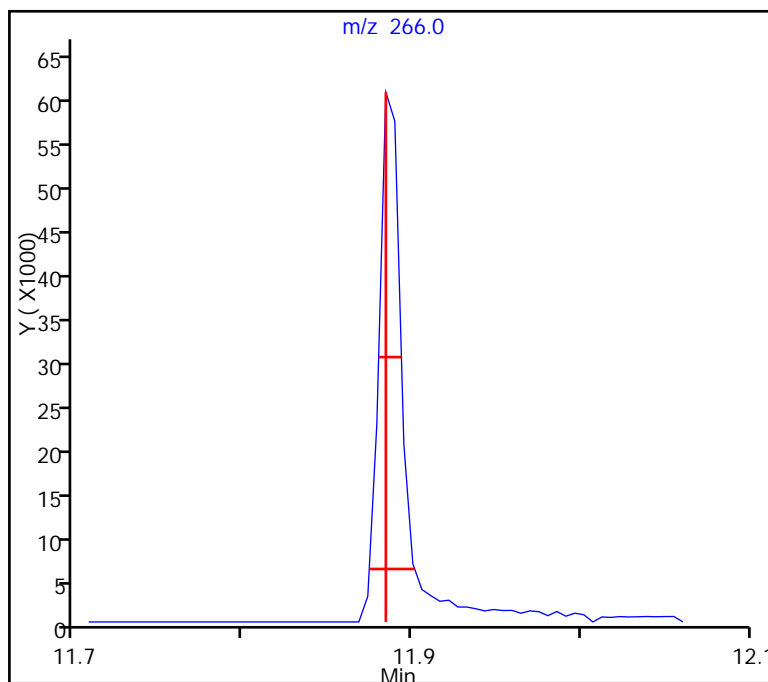
108 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)

Front Width = 0.010 (min.)

Tailing Factor = 1.7, Max. Tailing < 2.00
Passed



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25856.D

Injection Date: 30-Mar-2016 05:17:30

Instrument ID: HP5973U

Lims ID: DFTPP

Client ID:

Operator ID: CAS

ALS Bottle#: 2 Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: U-8270

Limit Group: MB - 8270D ICAL

130 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =

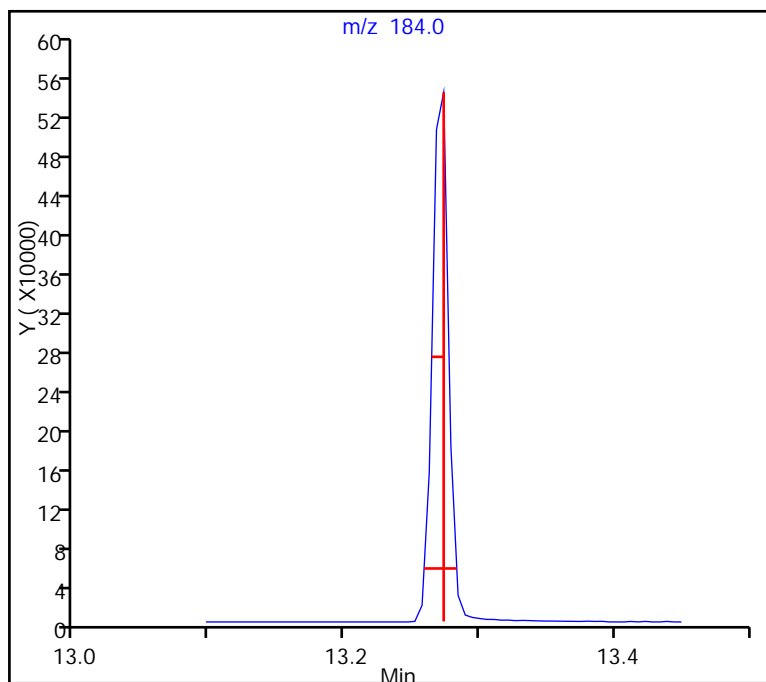
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.010 (min.)

Front Width = 0.015 (min.)

Tailing Factor = 0.7, Max. Tailing < 2.00

Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110815-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 480-293139/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25863.D</u>
Analysis Method: <u>8270D</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>30.16(g)</u>	Date Analyzed: <u>03/30/2016 08:24</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	170	U	170	25
95-94-3	1,2,4,5-Tetrachlorobenzene	170	U	170	29
108-60-1	2,2'-oxybis[1-chloropropane]	170	U	170	34
58-90-2	2,3,4,6-Tetrachlorophenol	170	U	170	35
95-95-4	2,4,5-Trichlorophenol	170	U	170	46
88-06-2	2,4,6-Trichlorophenol	170	U	170	34
120-83-2	2,4-Dichlorophenol	170	U	170	18
105-67-9	2,4-Dimethylphenol	170	U	170	41
51-28-5	2,4-Dinitrophenol	1700	U	1700	780
121-14-2	2,4-Dinitrotoluene	170	U	170	35
606-20-2	2,6-Dinitrotoluene	170	U	170	20
91-58-7	2-Chloronaphthalene	170	U	170	28
95-57-8	2-Chlorophenol	170	U	170	31
91-57-6	2-Methylnaphthalene	170	U	170	34
95-48-7	2-Methylphenol	170	U	170	20
88-74-4	2-Nitroaniline	330	U	330	25
88-75-5	2-Nitrophenol	170	U	170	48
91-94-1	3,3'-Dichlorobenzidine	330	U	330	200
99-09-2	3-Nitroaniline	330	U	330	47
534-52-1	4,6-Dinitro-2-methylphenol	330	U	330	170
101-55-3	4-Bromophenyl phenyl ether	170	U	170	24
59-50-7	4-Chloro-3-methylphenol	170	U	170	42
106-47-8	4-Chloroaniline	170	U	170	42
7005-72-3	4-Chlorophenyl phenyl ether	170	U	170	21
106-44-5	4-Methylphenol	330	U	330	20
100-01-6	4-Nitroaniline	330	U	330	89
100-02-7	4-Nitrophenol	330	U	330	120
83-32-9	Acenaphthene	170	U	170	25
208-96-8	Acenaphthylene	170	U	170	22
98-86-2	Acetophenone	170	U	170	23
120-12-7	Anthracene	170	U	170	42
1912-24-9	Atrazine	170	U	170	59
100-52-7	Benzaldehyde	170	U	170	130
56-55-3	Benzo[a]anthracene	170	U	170	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110815-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 480-293139/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25863.D</u>
Analysis Method: <u>8270D</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>30.16(g)</u>	Date Analyzed: <u>03/30/2016 08:24</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	170	U	170	25
205-99-2	Benzo[b]fluoranthene	170	U	170	27
191-24-2	Benzo[g,h,i]perylene	170	U	170	18
207-08-9	Benzo[k]fluoranthene	170	U	170	22
111-91-1	Bis(2-chloroethoxy)methane	170	U	170	36
111-44-4	Bis(2-chloroethyl)ether	170	U	170	22
117-81-7	Bis(2-ethylhexyl) phthalate	170	U	170	58
85-68-7	Butyl benzyl phthalate	170	U	170	28
105-60-2	Caprolactam	170	U	170	51
86-74-8	Carbazole	170	U	170	20
218-01-9	Chrysene	170	U	170	38
53-70-3	Dibenz(a,h)anthracene	170	U	170	30
132-64-9	Dibenzofuran	170	U	170	20
84-66-2	Diethyl phthalate	170	U	170	22
131-11-3	Dimethyl phthalate	170	U	170	20
84-74-2	Di-n-butyl phthalate	170	U	170	29
117-84-0	Di-n-octyl phthalate	170	U	170	20
206-44-0	Fluoranthene	170	U	170	18
86-73-7	Fluorene	170	U	170	20
118-74-1	Hexachlorobenzene	170	U	170	23
87-68-3	Hexachlorobutadiene	170	U	170	25
77-47-4	Hexachlorocyclopentadiene	170	U	170	23
67-72-1	Hexachloroethane	170	U	170	22
193-39-5	Indeno[1,2,3-cd]pyrene	170	U	170	21
78-59-1	Isophorone	170	U	170	36
91-20-3	Naphthalene	170	U	170	22
98-95-3	Nitrobenzene	170	U	170	19
621-64-7	N-Nitrosodi-n-propylamine	170	U	170	29
86-30-6	N-Nitrosodiphenylamine	170	U	170	140
87-86-5	Pentachlorophenol	330	U	330	170
85-01-8	Phenanthrene	170	U	170	25
108-95-2	Phenol	170	U	170	26
129-00-0	Pyrene	170	U	170	20

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 480-293139/1-A
Matrix: Solid Lab File ID: U25863.D
Analysis Method: 8270D Date Collected: _____
Extract. Method: 3546 Date Extracted: 03/29/2016 16:12
Sample wt/vol: 30.16(g) Date Analyzed: 03/30/2016 08:24
Con. Extract Vol.: 1(mL) Dilution Factor: 1
Injection Volume: 1(uL) Level: (low/med) Low
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 293176 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	54		39-146
321-60-8	2-Fluorobiphenyl	91		37-120
367-12-4	2-Fluorophenol (Surr)	69		18-120
4165-60-0	Nitrobenzene-d5 (Surr)	75		34-132
4165-62-2	Phenol-d5 (Surr)	79		11-120
1718-51-0	p-Terphenyl-d14 (Surr)	99		65-153

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25863.D
 Lims ID: MB 480-293139/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 30-Mar-2016 08:24:30 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0051640-009
 Misc. Info.: 480-97201-A-1-A
 Operator ID: CAS Instrument ID: HP5973U
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 30-Mar-2016 13:44:50 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: richardsd

Date: 30-Mar-2016 12:13:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.986	6.980	0.006	96	147881	40.0	40.0	
* 2 Naphthalene-d8	136	8.497	8.497	0.000	100	557229	40.0	40.0	
* 3 Acenaphthene-d10	164	10.559	10.559	0.000	96	288687	40.0	40.0	
* 4 Phenanthrene-d10	188	12.071	12.071	0.000	97	451020	40.0	40.0	
* 5 Chrysene-d12	240	14.507	14.507	0.000	97	461311	40.0	40.0	
* 6 Perylene-d12	264	16.180	16.179	0.001	97	447126	40.0	40.0	
\$ 9 2-Fluorophenol	112	5.410	5.404	0.006	95	140911	40.0	27.6	
\$ 10 Phenol-d5	99	6.505	6.505	0.000	88	197362	40.0	31.7	
\$ 11 Nitrobenzene-d5	82	7.627	7.627	0.000	96	166851	40.0	30.1	
\$ 12 2-Fluorobiphenyl	172	9.764	9.763	0.001	100	348802	40.0	36.3	
\$ 13 2,4,6-Tribromophenol	330	11.388	11.388	0.000	91	34591	40.0	21.5	
\$ 14 p-Terphenyl-d14	244	13.498	13.498	0.000	100	401808	40.0	39.6	
22 N-Methylaniline	1		0.700					ND	
71 Chlorotoluene N.O.S	1		0.700					ND	
58 Chlorobenzotrifluoride N.O	1		0.700					ND	
33 o-Anisidine	1		0.700					ND	
41 2-Chlorotoluene	91		0.700					ND	
59 Tricresyl phosphate	1		0.700					ND	
15 Lidocaine	1		0.700					ND	
75 3-Chloropyridine	1		0.700					ND	
63 5-Ethyl-5-phenyl barbituri	1		0.700					ND	
68 4-Chloropyridine	1		0.700					ND	
48 2-Chloropyridine	1		0.700					ND	
80 1,4-Dioxane	88		3.107					ND	
81 N-Nitrosodimethylamine	42		3.540					ND	
82 Pyridine	52		3.636					ND	
248 Triethyl amine	86		3.980					ND	
83 2-Picoline	93		4.667					ND	
84 N-Nitrosomethylethylamine	88		4.774					ND	
31 Dimethylformamide	73		4.783					ND	
250 Acrylamide	71		5.094					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
85 Methyl methanesulfonate	80		5.153					ND	
86 N-Nitrosodiethylamine	102		5.671					ND	
87 Ethyl methanesulfonate	79		6.008					ND	
88 Benzaldehyde	77		6.457					ND	
89 Phenol	94		6.521					ND	
90 Aniline	93		6.579					ND	
91 Bis(2-chloroethyl)ether	93		6.628					ND	
92 Pentachloroethane	167		6.654					ND	
93 2-Chlorophenol	128		6.740					ND	
258 n-Decane	57		6.766					ND	
94 1,3-Dichlorobenzene	146		6.921					ND	
95 1,4-Dichlorobenzene	146		7.002					ND	
96 Benzyl alcohol	108		7.114					ND	
45 2-Aminopyridine	94		7.171					ND	
97 1,2-Dichlorobenzene	146		7.194					ND	
98 2-Methylphenol	108		7.242					ND	
99 2,2'-oxybis[1-chloropropan	45		7.274					ND	
249 Indene	115		7.295					ND	
100 N-Nitrosopyrrolidine	100		7.391					ND	
102 4-Methylphenol	108		7.413					ND	
101 N-Nitrosodi-n-propylamine	70		7.424					ND	
103 N-Nitrosomorpholine	56		7.434					ND	
104 Acetophenone	105		7.440					ND	
105 2-Toluidine	106		7.482					ND	
73 4-Methylbenzenamine	106		7.488					ND	
106 Hexachloroethane	117		7.600					ND	
107 Nitrobenzene	77		7.648					ND	
109 N-Nitrosopiperidine	114		7.819					ND	
110 Isophorone	82		7.920					ND	
46 2,4-Dichlorotoluene	125		7.942					ND	
51 2-Chloroaniline	127		7.984					ND	
111 2-Nitrophenol	139		8.033					ND	
112 2,4-Dimethylphenol	107		8.049					ND	
53 1,3,5-Trichlorobenzene	180		8.059					ND	
116 o,o',o"-Triethylphosphoro	198		8.118					ND	
119 Benzoic acid	105		8.123					ND	
113 Tetraethyl lead	237		8.134					ND	
115 Bis(2-chloroethoxy)methane	93		8.155					ND	
118 alpha,alpha-Dimethyl phene	58		8.300					ND	
117 2,4-Dichlorophenol	162		8.316					ND	
66 4-Chlorophenol	128		8.412					ND	
120 1,2,4-Trichlorobenzene	180		8.428					ND	
122 Alpha-Terpineol	59		8.503					ND	
121 Naphthalene	128		8.524					ND	
123 4-Chloroaniline	127		8.561					ND	
124 2,6-Dichlorophenol	162		8.583					ND	
125 Hexachloropropene	213		8.636					ND	
126 Hexachlorobutadiene	225		8.668					ND	
32 Quinoline	129		8.909					ND	
129 N-Nitrosodi-n-butylamine	84		8.941					ND	
127 Caprolactam	113		8.941					ND	
128 p-Phenylene diamine	108		8.967					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
131 4-Chloro-3-methylphenol	107		9.122					ND	
132 Safrole, Total	162		9.213					ND	
259 2,4,5-Trichlorotoluene	159		9.299					ND	
133 2-Methylnaphthalene	142		9.347					ND	
135 Phthalic anhydride	104		9.389					ND	
251 n,n'-Dimethylaniline	120		9.404					ND	
252 1-Methylnaphthalene	142		9.464					ND	
136 Hexachlorocyclopentadiene	237		9.544					ND	
138 1,2,4,5-Tetrachlorobenzene	216		9.550					ND	
262 1,2,3,4 -Tetrachlorobenzen	216		9.550					ND	
261 2,3-Dichlorobenzenamine	161		9.673					ND	
139 2,4,6-Trichlorophenol	196		9.673					ND	
140 2,4,5-Trichlorophenol	196		9.721					ND	
142 Isosafrole	162		9.833					ND	
144 1,1'-Biphenyl	154		9.886					ND	
143 2-Chloronaphthalene	162		9.929					ND	
254 1-Chloronaphthalene	162		9.956					ND	
145 2-Nitroaniline	65		10.020					ND	
42 1,4-Naphthoquinone	158		10.111					ND	
30 Dicyclohexylamine	138		10.127					ND	
146 1,4-Dinitrobenzene	168		10.159					ND	
147 Dimethyl phthalate	163		10.207					ND	
50 1,3-Dinitrobenzene	168		10.250					ND	
148 2,6-Dinitrotoluene	165		10.282					ND	
149 Acenaphthylene	152		10.405					ND	
150 3-Nitroaniline	138		10.479					ND	
152 2,4-Dinitrophenol	184		10.592					ND	
151 Acenaphthene	153		10.592					ND	
153 4-Nitrophenol	109		10.645					ND	
154 2,4-Dinitrotoluene	165		10.730					ND	
156 Pentachlorobenzene	250		10.741					ND	
155 Dibenzofuran	168		10.778					ND	
157 1-Naphthylamine	143		10.853					ND	
265 2,3,5,6-Tetrachlorophenol	232		10.858					ND	
158 2,3,4,6-Tetrachlorophenol	232		10.901					ND	
159 2-Naphthylamine	143		10.933					ND	
160 Diethyl phthalate	149		10.965					ND	
257 Hexadecane	57		10.976					ND	
163 Thionazin	97		11.056					ND	
162 4-Chlorophenyl phenyl ethe	204		11.115					ND	
165 N-Nitro-o-toluidine	152		11.126					ND	
164 4-Nitroaniline	138		11.131					ND	
161 Fluorene	166		11.136					ND	
29 Tributyl phosphate	99		11.163					ND	
166 4,6-Dinitro-2-methylphenol	198		11.163					ND	
167 N-Nitrosodiphenylamine	169		11.233					ND	
169 Diphenylamine	169		11.233					ND	
168 1,2-Diphenylhydrazine	77		11.281					ND	
170 Azobenzene	77		11.281					ND	
171 Sulfotepp	322		11.361					ND	
172 1,3,5-Trinitrobenzene	213		11.462					ND	
175 Phenacetin	108		11.516					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
173 Diallate	43		11.516					ND	
174 Phorate	75		11.521					ND	
176 4-Bromophenyl phenyl ether	248		11.612					ND	
178 Dimethoate	87		11.687					ND	
179 Simazine	201		11.708					ND	
177 Hexachlorobenzene	284		11.708					ND	
180 Atrazine	200		11.735					ND	
182 4-Aminobiphenyl	169		11.863					ND	
181 Pentachlorophenol	266		11.890					ND	
263 n-Octadecane	57		11.890					ND	
184 Pronamide	173		11.900					ND	
183 Pentachloronitrobenzene	237		11.906					ND	
187 Disulfoton	88		12.023					ND	
186 Dinoseb	211		12.034					ND	
185 Phenanthrene	178		12.098					ND	
188 Anthracene	178		12.146					ND	
189 Carbazole	167		12.280					ND	
190 Methyl parathion	109		12.381					ND	
191 Alachlor	160		12.381					ND	
192 Di-n-butyl phthalate	149		12.541					ND	
264 2-Methylanthracene	192		12.611					ND	
193 Ethyl Parathion	97		12.728					ND	
194 4-Nitroquinoline-1-oxide	190		12.792					ND	
195 Methapyrilene	58		12.830					ND	
62 Anthraquinone	180		12.830					ND	
196 Isodrin	193		13.065					ND	
197 Fluoranthene	202		13.193					ND	
37 1-Hydroxyanthraquinone	224		13.214					ND	
198 Benzidine	184		13.268					ND	
199 Pyrene	202		13.407					ND	
200 Aramite, Total	185		13.498					ND	
201 p-Dimethylamino azobenzene	120		13.615					ND	
202 Chlorobenzilate	139		13.642					ND	
34 1,4-Dihydroxyanthraquinone	240		13.642					ND	
204 Famphur	218		13.861					ND	
64 9-Octadecenamide	72		13.877					ND	
205 Butyl benzyl phthalate	149		13.893					ND	
203 3,3'-Dimethylbenzidine	212		13.914					ND	
206 Kepone	272		14.032					ND	
207 2-Acetylaminofluorene	181		14.155					ND	
210 Bis(2-ethylhexyl) phthalat	149		14.379					ND	
247 4,4'-Methylene bis(2-chlor	231		14.416					ND	
208 3,3'-Dichlorobenzidine	252		14.427					ND	
209 Benzo[a]anthracene	228		14.497					ND	
211 Chrysene	228		14.534					ND	
255 6-Methylchrysene	242		14.988					ND	
212 Di-n-octyl phthalate	149		15.004					ND	
215 7,12-Dimethylbenz(a)anthra	256		15.640					ND	
213 Benzo[b]fluoranthene	252		15.672					ND	
214 Benzo[k]fluoranthene	252		15.704					ND	
216 Hexachlorophene	196		15.720					ND	
260 Benzo[e]pyrene	252		16.041					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
217 Benzo[a]pyrene	252		16.110					ND	
218 3-Methylcholanthrene	252		16.564					ND	
237 Dibenz[a,h]acridine	279		17.424					ND	
220 Dibenz(a,h)anthracene	278		17.873					ND	
219 Indeno[1,2,3-cd]pyrene	276		17.884					ND	
221 Benzo[g,h,i]perylene	276		18.407					ND	
72 4-Chlorobenzotrifluoride	1		0.700					ND	
269 2,4-Dichlorotoluene TIC	1		0.700					ND	
277 4-Chloro-3-nitro-alpha,alp	1		0.700					ND	
283 2,4'-DDT	1		0.700					ND	
21 2-Chlorobenzotrifluoride	1		0.700					ND	
239 Benzo[j]fluoranthene	1		0.700					ND	
234 7H-Dibenzo[c,g]carbazole	1		0.700					ND	
267 4-Chlorobenzotrifluoride T	1		0.700					ND	
266 2,6-Dichlorotoluene TIC	1		0.700					ND	
268 2-Chlorobenzotrifluoride T	1		0.700					ND	
40 1-Methylcyclopentanol	1		0.700					ND	
280 Photomirex TIC	1		0.700					ND	
246 Phenylmercaptan	110		0.700					ND	
76 3-Chlorobenzotrifluoride	1		0.700					ND	
17 CN-500	1		0.700					ND	
23 n,n'-Dimethylacetamide	1		0.700					ND	
274 Phenyl ether	1		0.700					ND	
227 CBF-500	1		0.700					ND	
225 CBF-400	1		0.700					ND	
74 3-Chlorotoluene	1		0.700					ND	
56 Benzeneacetic acid (TIC)	1		0.700					ND	
281 2,4'-DDE	1		0.700					ND	
67 4-Chlorotoluene	91		0.700					ND	
241 2,4-Toluene diamine	1		0.700					ND	
52 2,6-Dichlorotoluene	1		0.700					ND	
27 Pendimethalin	1		0.700					ND	
229 1,3-phenylenediamine TIC	1		0.700					ND	
224 5-Methyl-o-Anisidine TIC	1		0.700					ND	
236 Dibenz[a,j]acridine	279		0.700					ND	
238 Dibenzo[a,h]pyrene	1		0.700					ND	
70 Phenylacetic Acid	1		0.700					ND	
54 p-Fluoroaniline	1		0.700					ND	
49 2,6-Dichloropyridine	1		0.700					ND	
242 alpha,alpha-Dimethyl phene	1		0.700					ND	
19 NVF-400	1		0.700					ND	
24 Dibenzo[a,e]pyrene	1		0.700					ND	
244 Hexamethyldisiloxane TIC	1		0.700					ND	
245 1-Bromopropane	1		0.700					ND	
57 5-Methyl-o-Anisidine	1		0.700					ND	
230 2,4-Xylidine TIC	1		0.700					ND	
226 Tris(2,3-dibromopropyl)pho	1		0.700					ND	
36 2,3-Dichlorophenol	1		0.700					ND	
273 4-tert-Octylphenol	1		0.700					ND	
240 Dibenz(a,i)pyrene	1		0.700					ND	
18 CU-600	1		0.700					ND	
61 CAG-800	1		0.700					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
235 Octachlorostyrene	1		0.700					ND	
270 3-Chlorobenzotrifluoride T	1		0.700					ND	
228 o-Anisidine TIC	1		0.700					ND	
60 Benzeneacetonitrile	1		0.700					ND	
282 2,4'-DDD	235		0.700					ND	
272 Benzophenone	1		0.700					ND	
279 1,4-Dioxane TIC	1		0.700					ND	
232 4,4'-Methylene bis(2-chlor	1		0.700					ND	
243 Tetramethyl lead TIC	1		0.700					ND	
275 1,2,3-Trimethylbenzene	105		0.700					ND	
S 222 Total Cresols	1		0.700					ND	
S 77 3 & 4 Methylphenol	108		0.700					ND	
S 78 3-Methylphenol	1		0.700					ND	
S 233 EPH Adjustment 1	1		0.700					ND	
T 25 Prometryn (TIC)	1		0.700					ND	
T 65 Benefin (TIC)	1		0.700					ND	
T 28 Pendimethalin (TIC)	1		0.700					ND	
T 26 trans Azobenzene (TIC)	77		0.700					ND	
T 38 1-Methylnaphthalene (TIC)	142		0.700					ND	
T 231 2,3,7,8-TCDD	322		10.700					ND	

Reagents:

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25863.D

Injection Date: 30-Mar-2016 08:24:30

Instrument ID: HP5973U

Operator ID: CAS

Lims ID: MB 480-293139/1-A

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

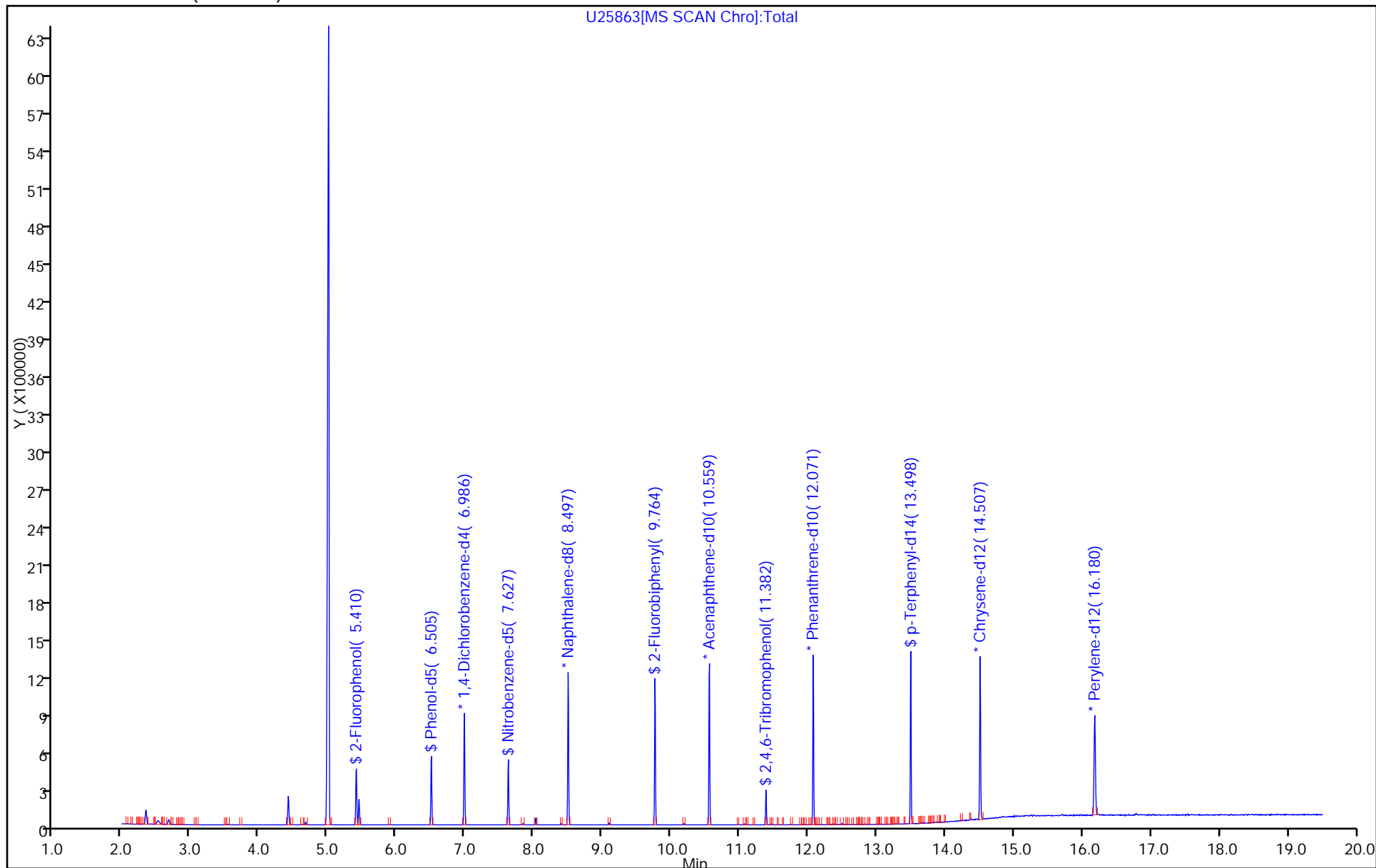
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110815-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 480-293139/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25864.D</u>
Analysis Method: <u>8270D</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>30.88(g)</u>	Date Analyzed: <u>03/30/2016 08:51</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	1210		170	24
95-94-3	1,2,4,5-Tetrachlorobenzene	1200		170	28
108-60-1	2,2'-oxybis[1-chloropropane]	1020		170	33
58-90-2	2,3,4,6-Tetrachlorophenol	987		170	34
95-95-4	2,4,5-Trichlorophenol	1000		170	45
88-06-2	2,4,6-Trichlorophenol	1090		170	33
120-83-2	2,4-Dichlorophenol	1020		170	17
105-67-9	2,4-Dimethylphenol	1120		170	40
51-28-5	2,4-Dinitrophenol	872	J	1600	760
121-14-2	2,4-Dinitrotoluene	1250		170	34
606-20-2	2,6-Dinitrotoluene	1300		170	19
91-58-7	2-Chloronaphthalene	1180		170	27
95-57-8	2-Chlorophenol	1000		170	30
91-57-6	2-Methylnaphthalene	1130		170	33
95-48-7	2-Methylphenol	1080		170	19
88-74-4	2-Nitroaniline	1190		320	24
88-75-5	2-Nitrophenol	1070		170	47
91-94-1	3,3'-Dichlorobenzidine	2330		320	190
99-09-2	3-Nitroaniline	1030		320	46
534-52-1	4,6-Dinitro-2-methylphenol	1750		320	170
101-55-3	4-Bromophenyl phenyl ether	1330		170	23
59-50-7	4-Chloro-3-methylphenol	1140		170	41
106-47-8	4-Chloroaniline	801		170	41
7005-72-3	4-Chlorophenyl phenyl ether	1240		170	20
106-44-5	4-Methylphenol	1080		320	19
100-01-6	4-Nitroaniline	1160		320	86
100-02-7	4-Nitrophenol	1870		320	120
83-32-9	Acenaphthene	1210		170	24
208-96-8	Acenaphthylene	1190		170	21
98-86-2	Acetophenone	1040		170	22
120-12-7	Anthracene	1260		170	41
1912-24-9	Atrazine	2760		170	57
100-52-7	Benzaldehyde	4600		170	130
56-55-3	Benzo[a]anthracene	1330		170	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Buffalo</u>	Job No.: <u>460-110815-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 480-293139/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>U25864.D</u>
Analysis Method: <u>8270D</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>03/29/2016 16:12</u>
Sample wt/vol: <u>30.88(g)</u>	Date Analyzed: <u>03/30/2016 08:51</u>
Con. Extract Vol.: <u>1(mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1(uL)</u>	Level: (low/med) <u>Low</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>293176</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	1350		170	24
205-99-2	Benzo[b]fluoranthene	1370		170	26
191-24-2	Benzo[g,h,i]perylene	1450		170	17
207-08-9	Benzo[k]fluoranthene	1330		170	21
111-91-1	Bis(2-chloroethoxy)methane	1130		170	35
111-44-4	Bis(2-chloroethyl)ether	1050		170	21
117-81-7	Bis(2-ethylhexyl) phthalate	1400		170	56
85-68-7	Butyl benzyl phthalate	1330		170	27
105-60-2	Caprolactam	1780		170	50
86-74-8	Carbazole	1260		170	19
218-01-9	Chrysene	1330		170	37
53-70-3	Dibenz(a,h)anthracene	1360		170	29
132-64-9	Dibenzofuran	1210		170	19
84-66-2	Diethyl phthalate	1240		170	21
131-11-3	Dimethyl phthalate	1230		170	19
84-74-2	Di-n-butyl phthalate	1290		170	28
117-84-0	Di-n-octyl phthalate	1270		170	19
206-44-0	Fluoranthene	1300		170	17
86-73-7	Fluorene	1220		170	19
118-74-1	Hexachlorobenzene	1360		170	22
87-68-3	Hexachlorobutadiene	1090		170	24
77-47-4	Hexachlorocyclopentadiene	1030		170	22
67-72-1	Hexachloroethane	953		170	21
193-39-5	Indeno[1,2,3-cd]pyrene	1360		170	20
78-59-1	Isophorone	1150		170	35
91-20-3	Naphthalene	1090		170	21
98-95-3	Nitrobenzene	1110		170	18
621-64-7	N-Nitrosodi-n-propylamine	1070		170	28
86-30-6	N-Nitrosodiphenylamine	1280		170	130
87-86-5	Pentachlorophenol	1390		320	170
85-01-8	Phenanthrene	1260		170	24
108-95-2	Phenol	1050		170	25
129-00-0	Pyrene	1370		170	19

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 480-293139/2-A
Matrix: Solid Lab File ID: U25864.D
Analysis Method: 8270D Date Collected: _____
Extract. Method: 3546 Date Extracted: 03/29/2016 16:12
Sample wt/vol: 30.88(g) Date Analyzed: 03/30/2016 08:51
Con. Extract Vol.: 1(mL) Dilution Factor: 1
Injection Volume: 1(uL) Level: (low/med) Low
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 293176 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	72		39-146
321-60-8	2-Fluorobiphenyl	77		37-120
367-12-4	2-Fluorophenol (Surr)	61		18-120
4165-60-0	Nitrobenzene-d5 (Surr)	65		34-132
4165-62-2	Phenol-d5 (Surr)	67		11-120
1718-51-0	p-Terphenyl-d14 (Surr)	86		65-153

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U25864.D
 Lims ID: LCS 480-293139/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 30-Mar-2016 08:51:30 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0051640-010
 Misc. Info.: 480-97201-A-1-A
 Operator ID: CAS Instrument ID: HP5973U
 Method: \\ChromNA\Buffalo\ChromData\HP5973U\20160330-51640.b\U-8270.m
 Limit Group: MB - 8270D ICAL
 Last Update: 30-Mar-2016 13:44:50 Calib Date: 15-Mar-2016 21:31:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973U\20160314-51236.b\U25648.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK047

First Level Reviewer: richardsd

Date: 30-Mar-2016 12:15:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
* 1 1,4-Dichlorobenzene-d4	152	6.985	6.980	0.005	95	142278	40.0	40.0	
* 2 Naphthalene-d8	136	8.497	8.497	0.000	99	532669	40.0	40.0	
* 3 Acenaphthene-d10	164	10.559	10.559	0.000	97	274919	40.0	40.0	
* 4 Phenanthrene-d10	188	12.071	12.071	0.000	98	432564	40.0	40.0	
* 5 Chrysene-d12	240	14.507	14.507	0.000	97	449556	40.0	40.0	
* 6 Perylene-d12	264	16.179	16.179	0.000	97	428465	40.0	40.0	
\$ 9 2-Fluorophenol	112	5.410	5.404	0.006	95	120713	40.0	24.5	
\$ 10 Phenol-d5	99	6.505	6.505	0.000	88	160642	40.0	26.8	
\$ 11 Nitrobenzene-d5	82	7.627	7.627	0.000	96	138358	40.0	26.1	
\$ 12 2-Fluorobiphenyl	172	9.763	9.763	0.000	100	282690	40.0	30.9	
\$ 13 2,4,6-Tribromophenol	330	11.387	11.388	-0.001	90	45818	40.0	28.9	
\$ 14 p-Terphenyl-d14	244	13.492	13.498	-0.006	100	340243	40.0	34.4	
80 1,4-Dioxane	88	3.102	3.107	-0.005	98	51087	50.0	22.0	
81 N-Nitrosodimethylamine	42	3.534	3.540	-0.006	95	80550	100.0	26.0	
82 Pyridine	52	3.636	3.636	0.000	95	89733	50.0	20.6	
88 Benzaldehyde	77	6.457	6.457	0.000	96	172544	100.0	142.1	E
89 Phenol	94	6.521	6.521	0.000	98	203894	50.0	32.4	
90 Aniline	93	6.579	6.579	0.000	97	187144	50.0	24.4	
91 Bis(2-chloroethyl)ether	93	6.628	6.628	0.000	98	167830	50.0	32.5	
93 2-Chlorophenol	128	6.740	6.740	0.000	97	156171	50.0	31.0	
258 n-Decane	57	6.766	6.766	0.000	99	181134	50.0	28.3	
94 1,3-Dichlorobenzene	146	6.921	6.921	0.000	97	167708	50.0	30.2	
95 1,4-Dichlorobenzene	146	7.007	7.002	0.005	93	170394	50.0	30.5	
96 Benzyl alcohol	108	7.114	7.114	0.000	93	108320	50.0	33.8	
97 1,2-Dichlorobenzene	146	7.194	7.194	0.000	96	161347	50.0	30.8	
98 2-Methylphenol	108	7.242	7.242	0.000	96	150031	50.0	33.5	
99 2,2'-oxybis[1-chloropropan	45	7.274	7.274	0.000	95	225982	50.0	31.4	
249 Indene	115	7.295	7.295	0.000	97	562833	100.0	62.7	
102 4-Methylphenol	108	7.418	7.413	0.005	94	156447	50.0	33.2	
101 N-Nitrosodi-n-propylamine	70	7.424	7.424	0.000	87	119204	50.0	33.0	
104 Acetophenone	105	7.434	7.440	-0.006	97	217142	50.0	32.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
106 Hexachloroethane	117	7.600	7.600	0.000	97	64794	50.0	29.4	
107 Nitrobenzene	77	7.648	7.648	0.000	88	167347	50.0	34.2	
110 Isophorone	82	7.920	7.920	0.000	99	311033	50.0	35.6	
111 2-Nitrophenol	139	8.033	8.033	0.000	93	73402	50.0	33.1	
112 2,4-Dimethylphenol	107	8.049	8.049	0.000	92	161270	50.0	34.7	
119 Benzoic acid	105	8.086	8.123	-0.037	0	20035	100.0	11.5	M
115 Bis(2-chloroethoxy)methane	93	8.155	8.155	0.000	100	194566	50.0	34.8	
117 2,4-Dichlorophenol	162	8.316	8.316	0.000	94	115484	50.0	31.5	
120 1,2,4-Trichlorobenzene	180	8.428	8.428	0.000	94	141218	50.0	33.4	
121 Naphthalene	128	8.524	8.524	0.000	98	450591	50.0	33.5	
123 4-Chloroaniline	127	8.561	8.561	0.000	97	141568	50.0	24.7	
124 2,6-Dichlorophenol	162	8.583	8.583	0.000	98	122922	50.0	33.5	
126 Hexachlorobutadiene	225	8.668	8.668	0.000	95	86831	50.0	33.6	
127 Caprolactam	113	8.935	8.941	-0.006	80	76316	100.0	54.9	
131 4-Chloro-3-methylphenol	107	9.122	9.122	0.000	92	131046	50.0	35.2	
133 2-Methylnaphthalene	142	9.347	9.347	0.000	91	300048	50.0	34.9	
252 1-Methylnaphthalene	142	9.464	9.464	0.000	97	280335	50.0	34.6	
136 Hexachlorocyclopentadiene	237	9.544	9.544	0.000	96	95443	50.0	31.8	
138 1,2,4,5-Tetrachlorobenzene	216	9.550	9.550	0.000	98	146104	50.0	37.0	
139 2,4,6-Trichlorophenol	196	9.673	9.673	0.000	95	84018	50.0	33.8	
140 2,4,5-Trichlorophenol	196	9.721	9.721	0.000	94	79700	50.0	31.0	
144 1,1'-Biphenyl	154	9.886	9.886	0.000	96	367346	50.0	37.3	
143 2-Chloronaphthalene	162	9.924	9.929	-0.005	97	289899	50.0	36.6	
145 2-Nitroaniline	65	10.020	10.020	0.000	83	86499	50.0	36.8	
147 Dimethyl phthalate	163	10.207	10.207	0.000	99	330661	50.0	38.0	
50 1,3-Dinitrobenzene	168	10.250	10.250	0.000	88	52385	50.0	39.0	
148 2,6-Dinitrotoluene	165	10.282	10.282	0.000	97	78778	50.0	40.1	
149 Acenaphthylene	152	10.405	10.405	-0.001	99	425950	50.0	36.8	
150 3-Nitroaniline	138	10.479	10.479	0.000	93	67205	50.0	31.8	
152 2,4-Dinitrophenol	184	10.586	10.592	-0.006	80	19858	100.0	26.9	
151 Acenaphthene	153	10.591	10.592	-0.001	95	288427	50.0	37.4	
153 4-Nitrophenol	109	10.645	10.645	0.000	90	67026	100.0	57.7	
154 2,4-Dinitrotoluene	165	10.730	10.730	0.000	95	99241	50.0	38.6	
155 Dibenzofuran	168	10.778	10.778	0.000	97	415578	50.0	37.4	
158 2,3,4,6-Tetrachlorophenol	232	10.901	10.901	0.000	96	65800	50.0	30.5	
160 Diethyl phthalate	149	10.965	10.965	0.000	98	323226	50.0	38.3	
257 Hexadecane	57	10.976	10.976	0.000	97	242603	50.0	38.0	
162 4-Chlorophenyl phenyl ethe	204	11.115	11.115	0.000	89	172370	50.0	38.3	
164 4-Nitroaniline	138	11.131	11.131	0.000	90	80877	50.0	35.7	
161 Fluorene	166	11.136	11.136	0.000	93	343922	50.0	37.7	
166 4,6-Dinitro-2-methylphenol	198	11.163	11.163	0.000	89	71625	100.0	53.9	
167 N-Nitrosodiphenylamine	169	11.233	11.233	0.000	98	247982	50.0	39.4	
169 Diphenylamine	169	11.233	11.233	0.000	97	247982	42.5	33.5	
170 Azobenzene	77	11.281	11.281	0.000	98	349470	50.0	37.9	
176 4-Bromophenyl phenyl ether	248	11.612	11.612	0.000	94	107287	50.0	41.1	
177 Hexachlorobenzene	284	11.708	11.708	0.000	96	130942	50.0	41.9	
180 Atrazine	200	11.735	11.735	0.000	94	197624	100.0	85.3	
181 Pentachlorophenol	266	11.890	11.890	0.000	94	73855	100.0	43.0	
263 n-Octadecane	57	11.890	11.890	0.000	98	244271	50.0	40.3	
185 Phenanthrene	178	12.098	12.098	0.000	96	469833	50.0	38.9	
188 Anthracene	178	12.146	12.146	0.000	96	482655	50.0	38.9	
189 Carbazole	167	12.280	12.280	0.000	97	439525	50.0	38.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
192 Di-n-butyl phthalate	149	12.541	12.541	0.000	100	520553	50.0	39.8	
197 Fluoranthene	202	13.193	13.193	0.000	96	523474	50.0	40.1	
198 Benzidine	184	13.268	13.268	0.000	99	126448	100.0	38.0	
199 Pyrene	202	13.407	13.407	0.000	97	531806	50.0	42.4	
205 Butyl benzyl phthalate	149	13.893	13.893	0.000	98	225540	50.0	41.0	
210 Bis(2-ethylhexyl) phthalat	149	14.379	14.379	0.000	97	313481	50.0	43.3	
208 3,3'-Dichlorobenzidine	252	14.427	14.427	0.000	99	333533	100.0	71.8	
209 Benzo[a]anthracene	228	14.497	14.497	0.000	97	526663	50.0	41.0	
211 Chrysene	228	14.534	14.534	0.000	97	509682	50.0	41.0	
212 Di-n-octyl phthalate	149	15.010	15.004	0.006	99	501797	50.0	39.2	
213 Benzo[b]fluoranthene	252	15.672	15.672	0.000	96	530169	50.0	42.3	
214 Benzo[k]fluoranthene	252	15.704	15.704	0.000	98	528890	50.0	41.1	
217 Benzo[a]pyrene	252	16.105	16.110	-0.005	97	487912	50.0	41.5	
220 Dibenz(a,h)anthracene	278	17.868	17.873	-0.005	89	550187	50.0	42.0	
219 Indeno[1,2,3-cd]pyrene	276	17.873	17.884	-0.011	98	644588	50.0	42.0	
221 Benzo[g,h,i]perylene	276	18.402	18.407	-0.005	97	552236	50.0	44.7	
S 78 3-Methylphenol	1				0		50.0	33.2	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

Reagents:

MB_INTSTD_STK_00019

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\Buffalo\\ChromData\\HP5973U\\20160330-51640.b\\U25864.D

Injection Date: 30-Mar-2016 08:51:30

Instrument ID: HP5973U

Operator ID: CAS

Lims ID: LCS 480-293139/2-A

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

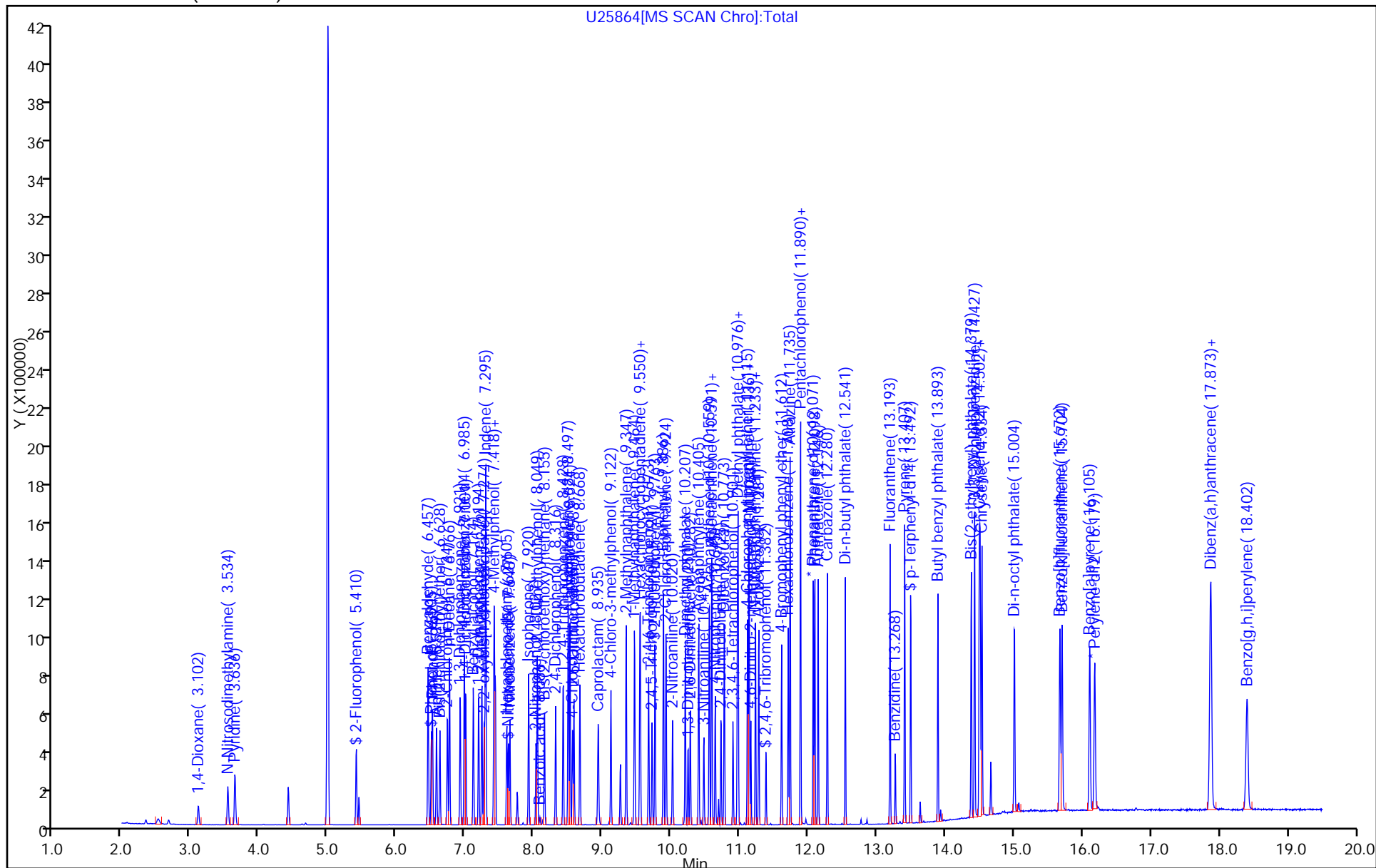
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: U-8270

Limit Group: MB - 8270D ICAL

Column: RXI-5Sil MS (0.25 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 460-110815-1

SDG No.: _____

Instrument ID: HP5973UStart Date: 03/15/2016 11:02Analysis Batch Number: 290883End Date: 03/15/2016 22:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-290883/2		03/15/2016 11:02	1	U25625.D	RXI-5Sil MS 0.25 (mm)
IC 480-290883/3		03/15/2016 11:37	1	U25626.D	RXI-5Sil MS 0.25 (mm)
IC 480-290883/4		03/15/2016 12:04	1	U25627.D	RXI-5Sil MS 0.25 (mm)
ICIS 480-290883/5		03/15/2016 12:31	1	U25628.D	RXI-5Sil MS 0.25 (mm)
IC 480-290883/6		03/15/2016 12:57	1	U25629.D	RXI-5Sil MS 0.25 (mm)
IC 480-290883/7		03/15/2016 13:24	1	U25630.D	RXI-5Sil MS 0.25 (mm)
IC 480-290883/8		03/15/2016 13:51	1	U25631.D	RXI-5Sil MS 0.25 (mm)
ICV 480-290883/9		03/15/2016 14:18	1	U25632.D	RXI-5Sil MS 0.25 (mm)
IC 480-290883/10		03/15/2016 14:45	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/11		03/15/2016 15:13	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/12		03/15/2016 15:40	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/13		03/15/2016 16:07	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/14		03/15/2016 16:35	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/15		03/15/2016 17:02	1		RXI-5Sil MS 0.25 (mm)
ICV 480-290883/16		03/15/2016 17:29	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/17		03/15/2016 17:56	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/18		03/15/2016 18:23	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/19		03/15/2016 18:50	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/20		03/15/2016 19:17	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/21		03/15/2016 19:44	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/22		03/15/2016 20:11	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/23		03/15/2016 20:38	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/24		03/15/2016 21:04	1		RXI-5Sil MS 0.25 (mm)
IC 480-290883/25		03/15/2016 21:31	1		RXI-5Sil MS 0.25 (mm)
CCVIS 480-290883/27		03/15/2016 22:25	1		RXI-5Sil MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 460-110815-1

SDG No.: _____

Instrument ID: HP5973UStart Date: 03/30/2016 05:17Analysis Batch Number: 293176End Date: 03/30/2016 17:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-293176/2		03/30/2016 05:17	1	U25856.D	RXI-5Sil MS 0.25 (mm)
CCVIS 480-293176/3		03/30/2016 05:44	1	U25857.D	RXI-5Sil MS 0.25 (mm)
RL 480-293176/4		03/30/2016 06:10	1		RXI-5Sil MS 0.25 (mm)
CCV 480-293176/5		03/30/2016 06:38	1		RXI-5Sil MS 0.25 (mm)
RL 480-293176/6		03/30/2016 07:05	1		RXI-5Sil MS 0.25 (mm)
CCV 480-293176/7		03/30/2016 07:31	1		RXI-5Sil MS 0.25 (mm)
RL 480-293176/8		03/30/2016 07:58	1		RXI-5Sil MS 0.25 (mm)
MB 480-293139/1-A		03/30/2016 08:24	1	U25863.D	RXI-5Sil MS 0.25 (mm)
LCS 480-293139/2-A		03/30/2016 08:51	1	U25864.D	RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 09:17	20		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 09:44	20		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 10:10	20		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 10:37	20		RXI-5Sil MS 0.25 (mm)
460-110815-1		03/30/2016 11:03	5	U25869.D	RXI-5Sil MS 0.25 (mm)
460-110815-2		03/30/2016 11:30	20	U25870.D	RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 11:57	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 12:23	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 12:50	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 13:17	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 13:43	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 14:10	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 14:37	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 15:04	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 15:30	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 15:57	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 16:24	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 16:51	1		RXI-5Sil MS 0.25 (mm)
ZZZZZ		03/30/2016 17:17	1		RXI-5Sil MS 0.25 (mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 460-110815-1

SDG No.: _____

Batch Number: 293139 Batch Start Date: 03/29/16 16:11 Batch Analyst: Wright, Allicia VBatch Method: 3546 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	O_8270/625LCS 00059	O_8270surr 00040	AnalysisComment	
MB 480-293139/1		3546, 8270D		30.16 g	1 mL		1 mL		
LCS 480-293139/2		3546, 8270D		30.88 g	1 mL	1 mL	1 mL		
460-110815-B-1	B2	3546, 8270D	T	25.27 g	1 mL		1 mL	Insufficient sample remaining for full initial amount	
460-110815-B-2	C2	3546, 8270D	T	30.59 g	1 mL		1 mL		

Batch Notes	
Acetone ID	3271917
Balance ID	40029
Analyst ID - Concentration	AW IL
Filter Paper ID	9648520
Final Concentrator Volume	1 mL
MeCL2 ID	3270790
MeCl2 / Acetone ID	3270790/3271917
Microwave Start Time	2:30
Microwave Stop Time	3:20
Na2SO4 ID	3261621
Ottawa Sand ID	3249333
Person's name who did the prep	AW
Solvent Lot #	3270789/3271913
Solvent Name	1:1 Methylene Chloride/Acetone
Analyst ID - Spike Analyst	AW
Analyst ID - Spike Witness Analyst	AW
Vial ID	68828

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Edison Job Number: 460-110815-1

SDG No.: _____

Project: DEC Elmont546; Site: E130150

Client Sample ID

B2

C2

Lab Sample ID

460-110815-1

460-110815-2

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: B2	Lab Sample ID: 460-110815-1
Lab Name: TestAmerica Edison	Job No.: 460-110815-1
SDG ID.:	
Matrix: Solid	Date Sampled: 03/22/2016 13:05
Reporting Basis: DRY	Date Received: 03/22/2016 19:40
% Solids: 92.4	

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	4890	36.1	18.6	mg/Kg			4	6010C
7440-36-0	Antimony	3.6	3.6	1.4	mg/Kg	U		4	6010C
7440-38-2	Arsenic	2.7	2.7	0.89	mg/Kg	U		4	6010C
7440-39-3	Barium	29.8	36.1	1.3	mg/Kg	J		4	6010C
7440-41-7	Beryllium	0.36	0.36	0.31	mg/Kg	U		4	6010C
7440-43-9	Cadmium	0.72	0.72	0.38	mg/Kg	U		4	6010C
7440-70-2	Calcium	1300	902	53.4	mg/Kg			4	6010C
7440-47-3	Chromium	6.4	1.8	0.87	mg/Kg			4	6010C
7440-48-4	Cobalt	4.0	9.0	1.0	mg/Kg	J		4	6010C
7440-50-8	Copper	5.5	4.5	1.2	mg/Kg			4	6010C
7439-89-6	Iron	7280	27.1	20.4	mg/Kg			4	6010C
7439-92-1	Lead	30.1	1.8	0.71	mg/Kg			4	6010C
7439-95-4	Magnesium	619	902	45.0	mg/Kg	J		4	6010C
7439-96-5	Manganese	282	2.7	0.95	mg/Kg			4	6010C
7440-02-0	Nickel	10.7	7.2	1.3	mg/Kg			4	6010C
7440-09-7	Potassium	197	902	27.3	mg/Kg	J		4	6010C
7782-49-2	Selenium	3.6	3.6	1.2	mg/Kg	U		4	6010C
7440-22-4	Silver	1.8	1.8	0.32	mg/Kg	U		4	6010C
7440-23-5	Sodium	902	902	61.1	mg/Kg	U		4	6010C
7440-28-0	Thallium	3.6	3.6	1.6	mg/Kg	U		4	6010C
7440-62-2	Vanadium	7.0	9.0	0.90	mg/Kg	J		4	6010C
7440-66-6	Zinc	31.1	5.4	1.3	mg/Kg			4	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: C2	Lab Sample ID: 460-110815-2
Lab Name: TestAmerica Edison	Job No.: 460-110815-1
SDG ID.:	
Matrix: Solid	Date Sampled: 03/22/2016 13:00
Reporting Basis: DRY	Date Received: 03/22/2016 19:40
% Solids: 91.2	

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	4820	36.5	18.8	mg/Kg			4	6010C
7440-36-0	Antimony	3.7	3.7	1.4	mg/Kg	U		4	6010C
7440-38-2	Arsenic	2.0	2.7	0.90	mg/Kg	J		4	6010C
7440-39-3	Barium	73.4	36.5	1.3	mg/Kg			4	6010C
7440-41-7	Beryllium	0.32	0.37	0.31	mg/Kg	J		4	6010C
7440-43-9	Cadmium	0.73	0.73	0.38	mg/Kg	U		4	6010C
7440-70-2	Calcium	5320	914	54.1	mg/Kg			4	6010C
7440-47-3	Chromium	20.5	1.8	0.88	mg/Kg			4	6010C
7440-48-4	Cobalt	2.5	9.1	1.1	mg/Kg	J		4	6010C
7440-50-8	Copper	20.1	4.6	1.2	mg/Kg			4	6010C
7439-89-6	Iron	8900	27.4	20.6	mg/Kg			4	6010C
7439-92-1	Lead	138	1.8	0.72	mg/Kg			4	6010C
7439-95-4	Magnesium	1370	914	45.6	mg/Kg			4	6010C
7439-96-5	Manganese	493	2.7	0.96	mg/Kg			4	6010C
7440-02-0	Nickel	14.2	7.3	1.3	mg/Kg			4	6010C
7440-09-7	Potassium	233	914	27.7	mg/Kg	J		4	6010C
7782-49-2	Selenium	3.7	3.7	1.3	mg/Kg	U		4	6010C
7440-22-4	Silver	1.8	1.8	0.32	mg/Kg	U		4	6010C
7440-23-5	Sodium	914	914	61.9	mg/Kg	U		4	6010C
7440-28-0	Thallium	3.7	3.7	1.6	mg/Kg	U		4	6010C
7440-62-2	Vanadium	9.4	9.1	0.91	mg/Kg			4	6010C
7440-66-6	Zinc	127	5.5	1.3	mg/Kg			4	6010C

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-110815-1

SDG No.: _____

ICV Source: ME_CCv_DUO_00152 Concentration Units: ug/L

CCV Source: ME_CCv_DUO_00152

Analyte	ICV 460-359716/7 03/30/2016 11:31				CCV 460-359716/33 03/30/2016 13:19				CCV 460-359716/46 03/30/2016 14:13			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	126000		125000	101	124600		125000	100	126700		125000	101
Antimony	990.8		1000	99	975.8		1000	98	982.3		1000	98
Arsenic	2492		2500	100	2484		2500	99	2534		2500	101
Barium	10210		10000	102	10100		10000	101	10270		10000	103
Beryllium	1007		1000	101	990.7		1000	99	994.3		1000	99
Cadmium	1268		1250	101	1258		1250	101	1276		1250	102
Calcium	126700		125000	101	128600		125000	103	129600		125000	104
Chromium	5098		5000	102	5092		5000	102	5188		5000	104
Cobalt	2532		2500	101	2503		2500	100	2522		2500	101
Copper	12610		12500	101	12370		12500	99	12490		12500	100
Iron	102700		100000	103	103200		100000	103	106000		100000	106
Lead	7667		7500	102	7607		7500	101	7779		7500	104
Magnesium	126600		125000	101	128000		125000	102	130000		125000	104
Manganese	5130		5000	103	5201		5000	104	5205		5000	104
Nickel	2548		2500	102	2515		2500	101	2567		2500	103
Potassium	49750		50000	100	49130		50000	98	49180		50000	98
Selenium	2497		2500	100	2480		2500	99	2547		2500	102
Silver	1257		1250	101	1256		1250	100	1284		1250	103
Sodium	125400		125000	100	124100		125000	99	125800		125000	101
Thallium	2543		2500	102	2517		2500	101	2540		2500	102
Vanadium	2506		2500	100	2471		2500	99	2497		2500	100
Zinc	2531		2500	101	2522		2500	101	2535		2500	101

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 Edison

Job No.: 460-110815-1

SDG No.: _____

ICV Source: ME_CCV_DUO_00152

Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00152

Analyte	CCV 460-359716/59 03/30/2016 15:08				CCV 460-359716/72 03/30/2016 16:02				CCV 460-359716/75 03/30/2016 16:18			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	125900		125000	101	126100		125000	101	119600		125000	96
Antimony	975.0		1000	98	975.6		1000	98	936.2		1000	94
Arsenic	2510		2500	100	2496		2500	100	2415		2500	97
Barium	10260		10000	103	10250		10000	103	9780		10000	98
Beryllium	984.3		1000	98	982.1		1000	98	937.3		1000	94
Cadmium	1266		1250	101	1261		1250	101	1211		1250	97
Calcium	127600		125000	102	127900		125000	102	122700		125000	98
Chromium	5166		5000	103	5168		5000	103	4922		5000	98
Cobalt	2507		2500	100	2504		2500	100	2397		2500	96
Copper	12490		12500	100	12460		12500	100	11870		12500	95
Iron	105500		100000	106	105300		100000	105	100800		100000	101
Lead	7775		7500	104	7757		7500	103	7405		7500	99
Magnesium	128600		125000	103	128600		125000	103	123800		125000	99
Manganese	5113		5000	102	5130		5000	103	4935		5000	99
Nickel	2565		2500	103	2558		2500	102	2443		2500	98
Potassium	48620		50000	97	48580		50000	97	46330		50000	93
Selenium	2519		2500	101	2501		2500	100	2417		2500	97
Silver	1282		1250	103	1284		1250	103	1226		1250	98
Sodium	124800		125000	100	125000		125000	100	118600		125000	95
Thallium	2523		2500	101	2511		2500	100	2412		2500	96
Vanadium	2484		2500	99	2481		2500	99	2362		2500	94
Zinc	2498		2500	100	2488		2500	100	2395		2500	96

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 Edison Job No.: 460-110815-1

SDG No.: _____

ICV Source: ME_CCV_DUO_00152 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00152

Analyte	CCV 460-359716/88 03/30/2016 17:07											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	122000		125000	98								
Antimony	942.5		1000	94								
Arsenic	2441		2500	98								
Barium	9988		10000	100								
Beryllium	944.0		1000	94								
Cadmium	1227		1250	98								
Calcium	123400		125000	99								
Chromium	5021		5000	100								
Cobalt	2428		2500	97								
Copper	12060		12500	96								
Iron	102800		100000	103								
Lead	7584		7500	101								
Magnesium	124800		125000	100								
Manganese	4936		5000	99								
Nickel	2495		2500	100								
Potassium	46630		50000	93								
Selenium	2447		2500	98								
Silver	1253		1250	100								
Sodium	120800		125000	97								
Thallium	2440		2500	98								
Vanadium	2397		2500	96								
Zinc	2406		2500	96								

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 Edison

Job No.: 460-110815-1

SDG No.: _____

ICV Source: ME_Cal2_BC_00009

Concentration Units: ug/L

CCV Source: ME_Cal2_BC_00009

Analyte	ICVL 460-359716/9 03/30/2016 11:39				CCVL 460-359716/35 03/30/2016 13:27				CCVL 460-359716/48 03/30/2016 14:22			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	232.1		200	116	230.8		200	115	221.9		200	111
Antimony	17.93	J	20.0	90	20.02		20.0	100	17.19	J	20.0	86
Arsenic	15.09		15.0	101	15.06		15.0	100	15.67		15.0	104
Barium	215.1		200	108	217.8		200	109	213.1		200	107
Beryllium	2.07		2.00	103	2.09		2.00	104	2.03		2.00	101
Cadmium	4.24		4.00	106	4.27		4.00	107	4.12		4.00	103
Calcium	5252		5000	105	5190		5000	104	5115		5000	102
Chromium	11.81		10.0	118	10.68		10.0	107	10.35		10.0	104
Cobalt	54.34		50.0	109	54.58		50.0	109	53.45		50.0	107
Copper	25.86		25.0	103	20.84	J	25.0	83	20.79	J	25.0	83
Iron	188.0		150	125	177.3		150	118	172.6		150	115
Lead	11.80		10.0	118	12.25		10.0	123	12.23		10.0	122
Magnesium	5173		5000	103	5187		5000	104	5069		5000	101
Manganese	17.77		15.0	118	16.43		15.0	110	16.22		15.0	108
Nickel	43.56		40.0	109	44.74		40.0	112	43.37		40.0	108
Potassium	4957	J	5000	99	4882	J	5000	98	4832	J	5000	97
Selenium	20.95		20.0	105	20.83		20.0	104	18.99	J	20.0	95
Silver	10.36		10.0	104	9.75	J	10.0	98	10.08		10.0	101
Sodium	5059		5000	101	5072		5000	101	4988	J	5000	100
Thallium	21.19		20.0	106	22.15		20.0	111	21.19		20.0	106
Vanadium	52.14		50.0	104	51.35		50.0	103	51.04		50.0	102
Zinc	32.07		30.0	107	32.03		30.0	107	31.42		30.0	105

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 Edison Job No.: 460-110815-1

SDG No.: _____

ICV Source: ME_Cal2_BC_00009 Concentration Units: ug/L

CCV Source: ME_Cal2_BC_00009

Analyte	CCVL 460-359716/61 03/30/2016 15:16				CCVL 460-359716/77 03/30/2016 16:25				CCVL 460-359716/90 03/30/2016 17:15			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	221.8		200	111	214.5		200	107	217.9		200	109
Antimony	18.62	J	20.0	93	17.42	J	20.0	87	18.76	J	20.0	94
Arsenic	16.15		15.0	108	15.01		15.0	100	14.51	J	15.0	97
Barium	216.1		200	108	209.9		200	105	213.7		200	107
Beryllium	1.97	J	2.00	99	1.98	J	2.00	99	1.93	J	2.00	96
Cadmium	4.20		4.00	105	4.03		4.00	101	4.11		4.00	103
Calcium	5237		5000	105	5003		5000	100	5071		5000	101
Chromium	10.81		10.0	108	10.01		10.0	100	10.50		10.0	105
Cobalt	53.94		50.0	108	51.99		50.0	104	52.72		50.0	105
Copper	22.02	J	25.0	88	20.25	J	25.0	81	19.37	J	25.0	77
Iron	171.3		150	114	162.2		150	108	175.0		150	117
Lead	12.59		10.0	126	9.22	J	10.0	92	8.82	J	10.0	88
Magnesium	5240		5000	105	5028		5000	101	5131		5000	103
Manganese	16.55		15.0	110	15.81		15.0	105	15.97		15.0	106
Nickel	43.46		40.0	109	42.55		40.0	106	43.41		40.0	109
Potassium	4786	J	5000	96	4631	J	5000	93	4630	J	5000	93
Selenium	20.47		20.0	102	20.74		20.0	104	21.35		20.0	107
Silver	9.85	J	10.0	99	9.50	J	10.0	95	9.69	J	10.0	97
Sodium	4977	J	5000	100	4795	J	5000	96	4883	J	5000	98
Thallium	20.04		20.0	100	20.00		20.0	100	21.98		20.0	110
Vanadium	50.63		50.0	101	49.08	J	50.0	98	49.47	J	50.0	99
Zinc	31.70		30.0	106	30.35		30.0	101	30.55		30.0	102

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison

Job No.: 460-110815-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 460-359716/8 03/30/2016 11:35		CCB 460-359716/34 03/30/2016 13:23		CCB 460-359716/47 03/30/2016 14:17		CCB 460-359716/60 03/30/2016 15:12	
		Found	C	Found	C	Found	C	Found	C
Aluminum	200	200	U	200	U	200	U	200	U
Antimony	20.0	20.0	U	20.0	U	20.0	U	20.0	U
Arsenic	15.0	15.0	U	15.0	U	15.0	U	15.0	U
Barium	200	200	U	200	U	200	U	200	U
Beryllium	2.0	2.0	U	2.0	U	2.0	U	2.0	U
Cadmium	4.0	4.0	U	4.0	U	4.0	U	4.0	U
Calcium	5000	5000	U	5000	U	5000	U	5000	U
Chromium	10.0	10.0	U	10.0	U	10.0	U	10.0	U
Cobalt	50.0	50.0	U	50.0	U	50.0	U	50.0	U
Copper	25.0	25.0	U	25.0	U	25.0	U	25.0	U
Iron	150	150	U	150	U	150	U	75.69	J
Lead	10.0	10.0	U	10.0	U	10.0	U	10.0	U
Magnesium	5000	5000	U	5000	U	5000	U	5000	U
Manganese	15.0	15.0	U	15.0	U	15.0	U	15.0	U
Nickel	40.0	40.0	U	40.0	U	40.0	U	40.0	U
Potassium	5000	5000	U	5000	U	5000	U	5000	U
Selenium	20.0	20.0	U	20.0	U	20.0	U	20.0	U
Silver	10.0	10.0	U	10.0	U	10.0	U	10.0	U
Sodium	5000	5000	U	5000	U	5000	U	5000	U
Thallium	20.0	20.0	U	20.0	U	20.0	U	20.0	U
Vanadium	50.0	50.0	U	50.0	U	50.0	U	50.0	U
Zinc	30.0	30.0	U	30.0	U	30.0	U	30.0	U

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Edison Job No.: 460-110815-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 460-359716/73 03/30/2016 16:06		CCB 460-359716/76 03/30/2016 16:21		CCB 460-359716/89 03/30/2016 17:11			
		Found	C	Found	C	Found	C	Found	C
Aluminum	200	143.4	J	200	U	200	U		
Antimony	20.0	20.0	U	20.0	U	20.0	U		
Arsenic	15.0	15.0	U	15.0	U	15.0	U		
Barium	200	200	U	200	U	200	U		
Beryllium	2.0	2.0	U	2.0	U	2.0	U		
Cadmium	4.0	4.0	U	4.0	U	4.0	U		
Calcium	5000	5000	U	5000	U	5000	U		
Chromium	10.0	10.0	U	10.0	U	10.0	U		
Cobalt	50.0	50.0	U	50.0	U	50.0	U		
Copper	25.0	25.0	U	25.0	U	25.0	U		
Iron	150	150	U	150	U	150	U		
Lead	10.0	10.0	U	10.0	U	10.0	U		
Magnesium	5000	5000	U	5000	U	5000	U		
Manganese	15.0	15.0	U	15.0	U	15.0	U		
Nickel	40.0	40.0	U	40.0	U	40.0	U		
Potassium	5000	5000	U	5000	U	5000	U		
Selenium	20.0	20.0	U	20.0	U	20.0	U		
Silver	10.0	10.0	U	10.0	U	10.0	U		
Sodium	5000	5000	U	5000	U	5000	U		
Thallium	20.0	20.0	U	20.0	U	20.0	U		
Vanadium	50.0	50.0	U	50.0	U	50.0	U		
Zinc	30.0	30.0	U	30.0	U	30.0	U		

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Edison Job No.: 460-110815-1
 SDG No.: _____
 Concentration Units: mg/Kg Lab Sample ID: MB 460-359247/1-A ^2
 Instrument Code: ICP4 Batch No.: 359716

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	20.0	U		6010C
7440-36-0	Antimony	2.0	U		6010C
7440-38-2	Arsenic	1.5	U		6010C
7440-39-3	Barium	20.0	U		6010C
7440-41-7	Beryllium	0.20	U		6010C
7440-43-9	Cadmium	0.40	U		6010C
7440-70-2	Calcium	500	U		6010C
7440-47-3	Chromium	1.0	U		6010C
7440-48-4	Cobalt	5.0	U		6010C
7440-50-8	Copper	2.5	U		6010C
7439-89-6	Iron	15.0	U		6010C
7439-92-1	Lead	1.0	U		6010C
7439-95-4	Magnesium	500	U		6010C
7439-96-5	Manganese	1.5	U		6010C
7440-02-0	Nickel	4.0	U		6010C
7440-09-7	Potassium	500	U		6010C
7782-49-2	Selenium	2.0	U		6010C
7440-22-4	Silver	1.0	U		6010C
7440-23-5	Sodium	500	U		6010C
7440-28-0	Thallium	2.0	U		6010C
7440-62-2	Vanadium	5.0	U		6010C
7440-66-6	Zinc	3.0	U		6010C

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-110815-1
 SDG No.: _____
 Lab Sample ID: ICSA 460-359716/10 Instrument ID: ICP4
 Lab File ID: 359247.asc ICS Source: ME_ICSA_Duo_00066
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	500000	496600	99
Antimony		0.307	
Arsenic		0.944	
Barium		1.02	
Beryllium		-0.0391	
Cadmium		0.698	
Calcium	500000	504800	101
Chromium		-0.607	
Cobalt		-3.14	
Copper		-5.51	
Iron	200000	196100	98
Lead		2.34	
Magnesium	500000	503900	101
Manganese		-4.60	
Nickel		-4.97	
Potassium		-58.4	
Selenium		-2.75	
Silver		-0.193	
Sodium		-30.7	
Thallium		-2.53	
Vanadium		2.28	
Zinc		-2.80	
<i>Boron</i>		<i>-8.74</i>	
<i>Molybdenum</i>		<i>-1.06</i>	
<i>Strontium</i>		<i>-1.77</i>	
<i>Tin</i>		<i>3.68</i>	
<i>Titanium</i>		<i>4.06</i>	

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

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Edison Job No.: 460-110815-1
 SDG No.: _____
 Lab Sample ID: ICSAB 460-359716/11 Instrument ID: ICP4
 Lab File ID: 359247.asc ICS Source: ME_ICSAB_DUO_00082
 Concentration Units: ug/L

Analyte	True	Found	
	Solution AB	Solution AB	Percent Recovery
Aluminum	500000	554500	111
Antimony	100	107	107
Arsenic	100	105	105
Barium	100	110	110
Beryllium	100	106	106
Cadmium	100	103	103
Calcium	500000	553700	111
Chromium	100	110	110
Cobalt	100	99.8	100
Copper	100	109	109
Iron	200000	217700	109
Lead	100	105	105
Magnesium	500000	563300	113
Manganese	100	107	107
Nickel	100	96.9	97
Potassium	10000	11060	111
Selenium	100	103	103
Silver	100	117	117
Sodium	10000	11290	113
Thallium	100	97.9	98
Vanadium	100	111	111
Zinc	100	98.1	98
<i>Boron</i>	<i>100</i>	<i>98.7</i>	<i>99</i>
<i>Molybdenum</i>	<i>100</i>	<i>103</i>	<i>103</i>
<i>Strontium</i>	<i>100</i>	<i>107</i>	<i>107</i>
<i>Tin</i>	<i>100</i>	<i>106</i>	<i>106</i>
<i>Titanium</i>	<i>100</i>	<i>116</i>	<i>116</i>

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

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: B2 MS

Lab ID: 460-110815-1 MS

Lab Name: TestAmerica Edison

Job No.: 460-110815-1

SDG No.: _____

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 92.4

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	5757	4890	177	488	75-125	4	6010C
Antimony	25.36	3.6 U	44.4	57	75-125	N	6010C
Arsenic	168.0	2.7 U	177	95	75-125		6010C
Barium	212.8	29.8 J	177	103	75-125		6010C
Beryllium	4.78	0.36 U	4.44	108	75-125		6010C
Cadmium	4.36	0.72 U	4.44	98	75-125		6010C
Calcium	2973	1300	1770	94	75-125		6010C
Chromium	26.39	6.4	17.7	112	75-125		6010C
Cobalt	48.38	4.0 J	44.4	100	75-125		6010C
Copper	28.70	5.5	22.2	105	75-125		6010C
Iron	10440	7280	88.7	3566	75-125	4	6010C
Lead	88.13	30.1	44.4	131	75-125	N	6010C
Magnesium	2435	619 J	1770	102	75-125		6010C
Manganese	349.4	282	44.4	152	75-125	4	6010C
Nickel	56.86	10.7	44.4	104	75-125		6010C
Potassium	1812	197 J	1770	91	75-125		6010C
Selenium	170.6	3.6 U	177	96	75-125		6010C
Silver	4.37	1.8 U	4.44	99	75-125		6010C
Sodium	1738	902 U	1770	98	75-125		6010C
Thallium	186.3	3.6 U	177	105	75-125		6010C
Vanadium	53.10	7.0 J	44.4	104	75-125		6010C
Zinc	77.01	31.1	44.4	103	75-125		6010C

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.

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: B2 PDS

Lab ID: 460-110815-1 PDS

Lab Name: TestAmerica Edison

Job No.: 460-110815-1

SDG No.: _____

Matrix: Solid

Concentration Units: mg/Kg

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	5234	4890	361	NC	80-120		6010C
Antimony	81.56	3.6 U	90.2	90	80-120		6010C
Arsenic	328.4	2.7 U	361	91	80-120		6010C
Barium	381.8	29.8 J	361	98	80-120		6010C
Beryllium	8.95	0.36 U	9.02	99	80-120		6010C
Cadmium	8.60	0.72 U	9.02	95	80-120		6010C
Calcium	4724	1300	3610	95	80-120		6010C
Chromium	42.83	6.4	36.1	101	80-120		6010C
Cobalt	91.95	4.0 J	90.2	97	80-120		6010C
Copper	47.24	5.5	45.1	93	80-120		6010C
Iron	7342	7280	180	NC	80-120		6010C
Lead	119.8	30.1	90.2	99	80-120		6010C
Magnesium	3966	619 J	3610	93	80-120		6010C
Manganese	365.9	282	90.2	93	80-120		6010C
Nickel	101.3	10.7	90.2	100	80-120		6010C
Potassium	3262	197 J	3610	85	80-120		6010C
Selenium	333.3	3.6 U	361	92	80-120		6010C
Silver	8.55	1.8 U	9.02	95	80-120		6010C
Sodium	3383	902 U	3610	94	80-120		6010C
Thallium	362.3	3.6 U	361	100	80-120		6010C
Vanadium	93.61	7.0 J	90.2	96	80-120		6010C
Zinc	116.9	31.1	90.2	95	80-120		6010C

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.

6-IN
DUPLICATES
METALS

Client ID: B2 DU

Lab ID: 460-110815-1 DU

Lab Name: TestAmerica Edison

Job No.: 460-110815-1

SDG No.:

% Solids for Sample: 92.4

% Solids for Duplicate: 92.4

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	Method
Aluminum	35.2	4890	4778	2		6010C
Antimony	3.5	3.6 U	3.5 U	NC		6010C
Arsenic	2.6	2.7 U	2.6 U	NC		6010C
Barium	35.2	29.8 J	29.19 J	2		6010C
Beryllium	0.35	0.36 U	0.35 U	NC		6010C
Cadmium	0.70	0.72 U	0.70 U	NC		6010C
Calcium	880	1300	1292	0.4		6010C
Chromium	1.8	6.4	6.36	1		6010C
Cobalt	8.8	4.0 J	3.94 J	2		6010C
Copper	4.4	5.5	5.64	3		6010C
Iron	26.4	7280	7177	1		6010C
Lead	1.8	30.1	29.10	3		6010C
Magnesium	880	619 J	612.8 J	1		6010C
Manganese	2.6	282	281.1	0.3		6010C
Nickel	7.0	10.7	10.39	3		6010C
Potassium	880	197 J	188.5 J	4		6010C
Selenium	3.5	3.6 U	3.5 U	NC		6010C
Silver	1.8	1.8 U	1.8 U	NC		6010C
Sodium	880	902 U	880 U	NC		6010C
Thallium	3.5	3.6 U	3.5 U	NC		6010C
Vanadium	8.8	7.0 J	6.71 J	5		6010C
Zinc	5.3	31.1	30.24	3		6010C

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

FORM VI-IN

7A-IN
LCS-CERTIFIED REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 460-359247/2-A

Lab Name: TestAmerica Edison

Job No.: 460-110815-1

Sample Matrix: Solid

LCS Source: ME_LCSS_87_00006

Analyte	Solid (mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	7930	6982		88.0	50.2	150.1		6010C
Antimony	105	53.56		51.0	0.1	201.0		6010C
Arsenic	98.5	93.30		94.7	77.8	122.8		6010C
Barium	308	317.0		102.9	82.5	117.5		6010C
Beryllium	66.0	63.78		96.6	83.0	116.8		6010C
Cadmium	146	144.9		99.2	82.9	117.8		6010C
Calcium	6610	6466		97.8	83.7	116.2		6010C
Chromium	182	183.4		100.8	79.7	120.3		6010C
Cobalt	162	165.4		102.1	83.3	116.0		6010C
Copper	106	101.2		95.5	81.5	118.9		6010C
Iron	14400	13980		97.1	44.1	155.6		6010C
Lead	130	132.9		102.3	82.3	117.7		6010C
Magnesium	2640	2446		92.7	75.8	124.6		6010C
Manganese	410	421.8		102.9	81.2	119.0		6010C
Nickel	149	155.4		104.3	82.6	117.4		6010C
Potassium	2550	2264		88.8	69.0	130.6		6010C
Selenium	154	147.3		95.6	77.9	122.1		6010C
Silver	40.9	38.80		94.9	75.1	124.7		6010C
Sodium	2480	2382		96.0	70.6	129.0		6010C
Thallium	175	185.2		105.8	78.3	121.1		6010C
Vanadium	96.7	92.32		95.5	77.2	123.1		6010C
Zinc	191	189.0		99.0	83.2	116.8		6010C

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: 460-110815-1

SDG No: _____

Lab Name: TestAmerica Edison

Job No: 460-110815-1

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C		Serial Dilution Result (S) C		% Difference	Q	Method
Aluminum	4890		4727		3.4		6010C
Antimony	3.6	U	18.0	U	NC		6010C
Arsenic	2.7	U	13.5	U	NC		6010C
Barium	29.8	J	28.86	J	NC		6010C
Beryllium	0.36	U	1.8	U	NC		6010C
Cadmium	0.72	U	3.6	U	NC		6010C
Calcium	1300		1255	J	NC		6010C
Chromium	6.4		5.84	J	NC		6010C
Cobalt	4.0	J	45.1	U	NC		6010C
Copper	5.5		22.6	U	NC		6010C
Iron	7280		7140		1.9		6010C
Lead	30.1		29.40		NC		6010C
Magnesium	619	J	604.4	J	NC		6010C
Manganese	282		273.8		2.9		6010C
Nickel	10.7		10.06	J	NC		6010C
Potassium	197	J	183.0	J	NC		6010C
Selenium	3.6	U	18.0	U	NC		6010C
Silver	1.8	U	9.0	U	NC		6010C
Sodium	902	U	4510	U	NC		6010C
Thallium	3.6	U	18.0	U	NC		6010C
Vanadium	7.0	J	6.66	J	NC		6010C
Zinc	31.1		30.37		NC		6010C

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison Job Number: 460-110815-1
 SDG Number: _____
 Matrix: Solid Instrument ID: ICP4
 Method: 6010C MDL Date: 05/05/2015 13:01
 Prep Method: 3050B

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Aluminum		40	20.6
Antimony		4	1.58
Arsenic		3	0.983
Barium		40	1.43
Beryllium		0.4	0.339
Cadmium		0.8	0.417
Calcium		1000	59.2
Chromium		2	0.967
Cobalt		10	1.15
Copper		5	1.3
Iron		30	22.6
Lead		2	0.785
Magnesium		1000	49.9
Manganese		3	1.05
Nickel		8	1.46
Potassium		1000	30.3
Selenium		4	1.38
Silver		2	0.353
Sodium		1000	67.7
Thallium		4	1.77
Vanadium		10	1
Zinc		6	1.46

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Edison Job Number: 460-110815-1
 SDG Number: _____
 Matrix: Solid Instrument ID: ICP4
 Method: 6010C XMDL Date: 05/05/2015 12:52

Analyte	Wavelength/ Mass	XRL (ug/L)	XMDL (ug/L)
Aluminum		200	69.5
Antimony		20	4.7
Arsenic		15	4.41
Barium		200	5.49
Beryllium		2	1.8
Cadmium		4	2.32
Calcium		5000	317
Chromium		10	4.5
Cobalt		50	5.08
Copper		25	5.02
Iron		150	65.4
Lead		10	4.16
Magnesium		5000	260
Manganese		15	4.88
Nickel		40	5.39
Potassium		5000	122
Selenium		20	6.76
Silver		10	1.86
Sodium		5000	315
Thallium		20	4.52
Vanadium		50	4.37
Zinc		30	5.9

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110815-1

SDG No.: _____

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 460-359247/1-A ^2	03/28/2016 18:47	359247	1.00		50
LCSSRM 460-359247/2-A	03/28/2016 18:47	359247	1.00		50
460-110815-1	03/28/2016 18:47	359247	1.20		50
460-110815-1 DU	03/28/2016 18:47	359247	1.23		50
460-110815-1 MS	03/28/2016 18:47	359247	1.22		50
460-110815-2	03/28/2016 18:47	359247	1.20		50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110815-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 03/30/2016 11:06 End Date: 03/31/2016 01:23

Lab Sample ID	D / F	T y p e	Time	Analytes																			
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e	T l
ICIS 460-359716/1	1		11:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZ			11:10																				
ZZZZZZ			11:14																				
ZZZZZZ			11:18																				
ZZZZZZ			11:22																				
ZZZZZZ			11:26																				
ICV 460-359716/7	1		11:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICB 460-359716/8	1		11:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICVL 460-359716/9	1		11:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICSA 460-359716/10	1		11:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ICSAB 460-359716/11	1		11:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZ			11:52																				
ZZZZZZ			11:56																				
ZZZZZZ			12:01																				
ZZZZZZ			12:05																				
ZZZZZZ			12:09																				
ZZZZZZ			12:13																				
ZZZZZZ			12:17																				
ZZZZZZ			12:21																				
CCV 460-359716/20			12:25																				
CCB 460-359716/21			12:29																				
CCVL 460-359716/22			12:34																				
ZZZZZZ			12:38																				
ZZZZZZ			12:42																				
ZZZZZZ			12:46																				
ZZZZZZ			12:50																				
ZZZZZZ			12:54																				
ZZZZZZ			12:58																				
ZZZZZZ			13:02																				
ZZZZZZ			13:06																				
ZZZZZZ			13:11																				
ZZZZZZ			13:15																				
CCV 460-359716/33	1		13:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 460-359716/34	1		13:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCVL 460-359716/35	1		13:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZ			13:32																				
ZZZZZZ			13:36																				
ZZZZZZ			13:40																				
ZZZZZZ			13:44																				
ZZZZZZ			13:48																				
ZZZZZZ			13:52																				
ZZZZZZ			13:57																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110815-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 03/30/2016 11:06 End Date: 03/31/2016 01:23

Lab Sample ID	D / F	T y p e	Time	Analytes																			
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e	T l
MB 460-359247/1-A ^2	2	T	14:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
LCSSRM 460-359247/2-A	4	T	14:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
460-110815-1 DU	4	T	14:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCV 460-359716/46	1		14:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 460-359716/47	1		14:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCVL 460-359716/48	1		14:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
460-110815-1	4	T	14:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
460-110815-1 SD	20	T	14:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
460-110815-1 MS	4	T	14:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
460-110815-1 PDS	4	T	14:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZ			14:43																				
ZZZZZZ			14:47																				
ZZZZZZ			14:51																				
ZZZZZZ			14:55																				
ZZZZZZ			14:59																				
ZZZZZZ			15:03																				
CCV 460-359716/59	1		15:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 460-359716/60	1		15:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCVL 460-359716/61	1		15:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZ			15:20																				
ZZZZZZ			15:24																				
ZZZZZZ			15:29																				
ZZZZZZ			15:33																				
ZZZZZZ			15:37																				
ZZZZZZ			15:41																				
ZZZZZZ			15:45																				
ZZZZZZ			15:50																				
ZZZZZZ			15:54																				
ZZZZZZ			15:58																				
CCV 460-359716/72	1		16:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 460-359716/73	1		16:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCVL 460-359716/74			16:11																				
CCV 460-359716/75	1		16:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 460-359716/76	1		16:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCVL 460-359716/77	1		16:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZ			16:29																				
ZZZZZZ			16:33																				
ZZZZZZ			16:37																				
ZZZZZZ			16:41																				
ZZZZZZ			16:44																				
ZZZZZZ			16:48																				
460-110815-2	4	T	16:52	X	X	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 Edison Job No.: 460-110815-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 03/30/2016 11:06 End Date: 03/31/2016 01:23

Lab Sample ID	D / F	T y p e	Time	Analytes																			
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e	T l
ZZZZZZZ			16:56																				
ZZZZZZZ			17:00																				
ZZZZZZZ			17:03																				
CCV 460-359716/88	1		17:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 460-359716/89	1		17:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 460-359716/90	1		17:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZZ			17:19																				
ZZZZZZZ			17:23																				
ZZZZZZZ			17:27																				
ZZZZZZZ			17:31																				
ZZZZZZZ			17:34																				
ZZZZZZZ			17:38																				
ZZZZZZZ			17:42																				
ZZZZZZZ			17:46																				
ZZZZZZZ			17:50																				
ZZZZZZZ			17:54																				
CCV 460-359716/101			17:58																				
CCB 460-359716/102			18:02																				
CCVL 460-359716/103			18:06																				
ZZZZZZZ			18:10																				
ZZZZZZZ			18:13																				
ZZZZZZZ			18:17																				
ZZZZZZZ			18:21																				
ZZZZZZZ			18:25																				
ZZZZZZZ			18:29																				
ZZZZZZZ			18:33																				
ZZZZZZZ			18:37																				
ZZZZZZZ			18:41																				
ZZZZZZZ			18:45																				
CCV 460-359716/114			18:49																				
CCB 460-359716/115			18:52																				
CCVL 460-359716/116			18:57																				
ZZZZZZZ			19:00																				
ZZZZZZZ			19:04																				
ZZZZZZZ			19:09																				
ZZZZZZZ			19:13																				
ZZZZZZZ			19:17																				
ZZZZZZZ			19:21																				
ZZZZZZZ			19:25																				
ZZZZZZZ			19:29																				
ZZZZZZZ			19:33																				
ZZZZZZZ			19:37																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110815-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 03/30/2016 11:06 End Date: 03/31/2016 01:23

Lab Sample ID	D / F	T y p e	Time	Analytes																			
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e	T l
CCV 460-359716/127			19:41																				
CCB 460-359716/128			19:45																				
CCVL 460-359716/129			19:49																				
ZZZZZZ			19:53																				
ZZZZZZ			19:57																				
ZZZZZZ			20:01																				
ZZZZZZ			20:05																				
ZZZZZZ			20:10																				
ZZZZZZ			20:13																				
ZZZZZZ			20:17																				
ZZZZZZ			20:21																				
ZZZZZZ			20:25																				
ZZZZZZ			20:29																				
CCV 460-359716/140			20:33																				
CCB 460-359716/141			20:37																				
CCVL 460-359716/142			20:41																				
ZZZZZZ			20:45																				
ZZZZZZ			20:48																				
ZZZZZZ			20:52																				
ZZZZZZ			20:56																				
ZZZZZZ			21:01																				
ZZZZZZ			21:05																				
ZZZZZZ			21:09																				
ZZZZZZ			21:13																				
ZZZZZZ			21:17																				
ZZZZZZ			21:20																				
CCV 460-359716/153			21:24																				
CCB 460-359716/154			21:28																				
CCVL 460-359716/155			21:32																				
ZZZZZZ			21:46																				
ZZZZZZ			21:50																				
ZZZZZZ			21:54																				
ZZZZZZ			21:58																				
ZZZZZZ			22:02																				
ZZZZZZ			22:05																				
ZZZZZZ			22:09																				
ZZZZZZ			22:13																				
ZZZZZZ			22:17																				
ZZZZZZ			22:21																				
CCV 460-359716/166			22:25																				
CCB 460-359716/167			22:28																				
CCVL 460-359716/168			22:32																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110815-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 03/30/2016 11:06 End Date: 03/31/2016 01:23

Lab Sample ID	D / F	T y p e	Time	Analytes																		
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e
ZZZZZZ			22:36																			
ZZZZZZ			22:40																			
ZZZZZZ			22:44																			
ZZZZZZ			22:48																			
ZZZZZZ			22:52																			
ZZZZZZ			22:56																			
ZZZZZZ			23:00																			
ZZZZZZ			23:04																			
ZZZZZZ			23:08																			
ZZZZZZ			23:12																			
CCV 460-359716/179			23:15																			
CCB 460-359716/180			23:19																			
CCVL 460-359716/181			23:23																			
ZZZZZZ			23:27																			
ZZZZZZ			23:31																			
ZZZZZZ			23:35																			
ZZZZZZ			23:39																			
ZZZZZZ			23:43																			
ZZZZZZ			23:46																			
ZZZZZZ			23:50																			
ZZZZZZ			23:54																			
ZZZZZZ			23:58																			
ZZZZZZ			00:02																			
CCV 460-359716/192			00:06																			
CCB 460-359716/193			00:09																			
CCVL 460-359716/194			00:13																			
ZZZZZZ			00:17																			
ZZZZZZ			00:21																			
ZZZZZZ			00:25																			
ZZZZZZ			00:29																			
ZZZZZZ			00:33																			
ZZZZZZ			00:37																			
ZZZZZZ			00:41																			
ZZZZZZ			00:45																			
ZZZZZZ			00:48																			
ZZZZZZ			00:52																			
CCV 460-359716/205			00:56																			
CCB 460-359716/206			01:00																			
CCVL 460-359716/207			01:04																			
ZZZZZZ			01:08																			
ZZZZZZ			01:12																			
CCV 460-359716/210			01:16																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110815-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 03/30/2016 11:06 End Date: 03/31/2016 01:23

Lab Sample ID	D / F	T y p e	Time	Analytes																		
				A g	A l	A s	B a	B e	C a	C d	C o	C r	C u	F e	K	M g	M n	N a	N i	P b	S b	S e
CCB 460-359716/211			01:19																			
CCVL 460-359716/212			01:23																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110815-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 03/30/2016 11:06 End Date: 03/31/2016 01:23

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				V	Z n																
ICIS 460-359716/1	1		11:06	X	X																
ZZZZZZ			11:10																		
ZZZZZZ			11:14																		
ZZZZZZ			11:18																		
ZZZZZZ			11:22																		
ZZZZZZ			11:26																		
ICV 460-359716/7	1		11:31	X	X																
ICB 460-359716/8	1		11:35	X	X																
ICVL 460-359716/9	1		11:39	X	X																
ICSA 460-359716/10	1		11:43	X	X																
ICSAB 460-359716/11	1		11:48	X	X																
ZZZZZZ			11:52																		
ZZZZZZ			11:56																		
ZZZZZZ			12:01																		
ZZZZZZ			12:05																		
ZZZZZZ			12:09																		
ZZZZZZ			12:13																		
ZZZZZZ			12:17																		
ZZZZZZ			12:21																		
CCV 460-359716/20			12:25																		
CCB 460-359716/21			12:29																		
CCVL 460-359716/22			12:34																		
ZZZZZZ			12:38																		
ZZZZZZ			12:42																		
ZZZZZZ			12:46																		
ZZZZZZ			12:50																		
ZZZZZZ			12:54																		
ZZZZZZ			12:58																		
ZZZZZZ			13:02																		
ZZZZZZ			13:06																		
ZZZZZZ			13:11																		
ZZZZZZ			13:15																		
CCV 460-359716/33	1		13:19	X	X																
CCB 460-359716/34	1		13:23	X	X																
CCVL 460-359716/35	1		13:27	X	X																
ZZZZZZ			13:32																		
ZZZZZZ			13:36																		
ZZZZZZ			13:40																		
ZZZZZZ			13:44																		
ZZZZZZ			13:48																		
ZZZZZZ			13:52																		
ZZZZZZ			13:57																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110815-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 03/30/2016 11:06 End Date: 03/31/2016 01:23

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				V	Z n																
MB 460-359247/1-A ^2	2	T	14:01	X	X																
LCSSRM 460-359247/2-A	4	T	14:05	X	X																
460-110815-1 DU	4	T	14:09	X	X																
CCV 460-359716/46	1		14:13	X	X																
CCB 460-359716/47	1		14:17	X	X																
CCVL 460-359716/48	1		14:22	X	X																
460-110815-1	4	T	14:26	X	X																
460-110815-1 SD	20	T	14:30	X	X																
460-110815-1 MS	4	T	14:35	X	X																
460-110815-1 PDS	4	T	14:39	X	X																
ZZZZZZ			14:43																		
ZZZZZZ			14:47																		
ZZZZZZ			14:51																		
ZZZZZZ			14:55																		
ZZZZZZ			14:59																		
ZZZZZZ			15:03																		
CCV 460-359716/59	1		15:08	X	X																
CCB 460-359716/60	1		15:12	X	X																
CCVL 460-359716/61	1		15:16	X	X																
ZZZZZZ			15:20																		
ZZZZZZ			15:24																		
ZZZZZZ			15:29																		
ZZZZZZ			15:33																		
ZZZZZZ			15:37																		
ZZZZZZ			15:41																		
ZZZZZZ			15:45																		
ZZZZZZ			15:50																		
ZZZZZZ			15:54																		
ZZZZZZ			15:58																		
CCV 460-359716/72	1		16:02	X	X																
CCB 460-359716/73	1		16:06	X	X																
CCVL 460-359716/74			16:11																		
CCV 460-359716/75	1		16:18	X	X																
CCB 460-359716/76	1		16:21	X	X																
CCVL 460-359716/77	1		16:25	X	X																
ZZZZZZ			16:29																		
ZZZZZZ			16:33																		
ZZZZZZ			16:37																		
ZZZZZZ			16:41																		
ZZZZZZ			16:44																		
ZZZZZZ			16:48																		
460-110815-2	4	T	16:52	X	X																

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110815-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 03/30/2016 11:06 End Date: 03/31/2016 01:23

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				V	Z n																
ZZZZZZ			16:56																		
ZZZZZZ			17:00																		
ZZZZZZ			17:03																		
CCV 460-359716/88	1		17:07	X	X																
CCB 460-359716/89	1		17:11	X	X																
CCVL 460-359716/90	1		17:15	X	X																
ZZZZZZ			17:19																		
ZZZZZZ			17:23																		
ZZZZZZ			17:27																		
ZZZZZZ			17:31																		
ZZZZZZ			17:34																		
ZZZZZZ			17:38																		
ZZZZZZ			17:42																		
ZZZZZZ			17:46																		
ZZZZZZ			17:50																		
ZZZZZZ			17:54																		
CCV 460-359716/101			17:58																		
CCB 460-359716/102			18:02																		
CCVL 460-359716/103			18:06																		
ZZZZZZ			18:10																		
ZZZZZZ			18:13																		
ZZZZZZ			18:17																		
ZZZZZZ			18:21																		
ZZZZZZ			18:25																		
ZZZZZZ			18:29																		
ZZZZZZ			18:33																		
ZZZZZZ			18:37																		
ZZZZZZ			18:41																		
ZZZZZZ			18:45																		
CCV 460-359716/114			18:49																		
CCB 460-359716/115			18:52																		
CCVL 460-359716/116			18:57																		
ZZZZZZ			19:00																		
ZZZZZZ			19:04																		
ZZZZZZ			19:09																		
ZZZZZZ			19:13																		
ZZZZZZ			19:17																		
ZZZZZZ			19:21																		
ZZZZZZ			19:25																		
ZZZZZZ			19:29																		
ZZZZZZ			19:33																		
ZZZZZZ			19:37																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110815-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 03/30/2016 11:06 End Date: 03/31/2016 01:23

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				V	Z n																
CCV 460-359716/127			19:41																		
CCB 460-359716/128			19:45																		
CCVL 460-359716/129			19:49																		
ZZZZZZ			19:53																		
ZZZZZZ			19:57																		
ZZZZZZ			20:01																		
ZZZZZZ			20:05																		
ZZZZZZ			20:10																		
ZZZZZZ			20:13																		
ZZZZZZ			20:17																		
ZZZZZZ			20:21																		
ZZZZZZ			20:25																		
ZZZZZZ			20:29																		
CCV 460-359716/140			20:33																		
CCB 460-359716/141			20:37																		
CCVL 460-359716/142			20:41																		
ZZZZZZ			20:45																		
ZZZZZZ			20:48																		
ZZZZZZ			20:52																		
ZZZZZZ			20:56																		
ZZZZZZ			21:01																		
ZZZZZZ			21:05																		
ZZZZZZ			21:09																		
ZZZZZZ			21:13																		
ZZZZZZ			21:17																		
ZZZZZZ			21:20																		
CCV 460-359716/153			21:24																		
CCB 460-359716/154			21:28																		
CCVL 460-359716/155			21:32																		
ZZZZZZ			21:46																		
ZZZZZZ			21:50																		
ZZZZZZ			21:54																		
ZZZZZZ			21:58																		
ZZZZZZ			22:02																		
ZZZZZZ			22:05																		
ZZZZZZ			22:09																		
ZZZZZZ			22:13																		
ZZZZZZ			22:17																		
ZZZZZZ			22:21																		
CCV 460-359716/166			22:25																		
CCB 460-359716/167			22:28																		
CCVL 460-359716/168			22:32																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110815-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 03/30/2016 11:06 End Date: 03/31/2016 01:23

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				V	Z n																
ZZZZZZ			22:36																		
ZZZZZZ			22:40																		
ZZZZZZ			22:44																		
ZZZZZZ			22:48																		
ZZZZZZ			22:52																		
ZZZZZZ			22:56																		
ZZZZZZ			23:00																		
ZZZZZZ			23:04																		
ZZZZZZ			23:08																		
ZZZZZZ			23:12																		
CCV 460-359716/179			23:15																		
CCB 460-359716/180			23:19																		
CCVL 460-359716/181			23:23																		
ZZZZZZ			23:27																		
ZZZZZZ			23:31																		
ZZZZZZ			23:35																		
ZZZZZZ			23:39																		
ZZZZZZ			23:43																		
ZZZZZZ			23:46																		
ZZZZZZ			23:50																		
ZZZZZZ			23:54																		
ZZZZZZ			23:58																		
ZZZZZZ			00:02																		
CCV 460-359716/192			00:06																		
CCB 460-359716/193			00:09																		
CCVL 460-359716/194			00:13																		
ZZZZZZ			00:17																		
ZZZZZZ			00:21																		
ZZZZZZ			00:25																		
ZZZZZZ			00:29																		
ZZZZZZ			00:33																		
ZZZZZZ			00:37																		
ZZZZZZ			00:41																		
ZZZZZZ			00:45																		
ZZZZZZ			00:48																		
ZZZZZZ			00:52																		
CCV 460-359716/205			00:56																		
CCB 460-359716/206			01:00																		
CCVL 460-359716/207			01:04																		
ZZZZZZ			01:08																		
ZZZZZZ			01:12																		
CCV 460-359716/210			01:16																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-110815-1

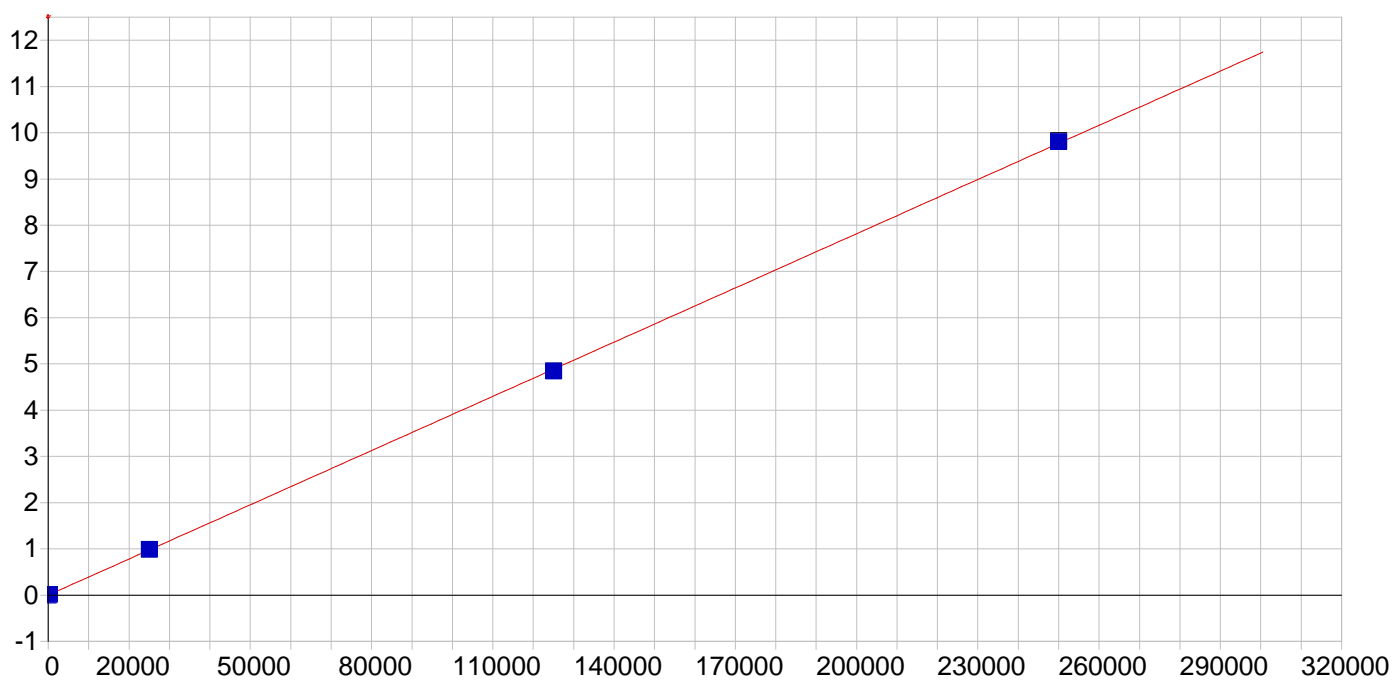
SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 03/30/2016 11:06 End Date: 03/31/2016 01:23

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				V	Z n																
CCB 460-359716/211			01:19																		
CCVL 460-359716/212			01:23																		

Prep Types
T = Total/NA

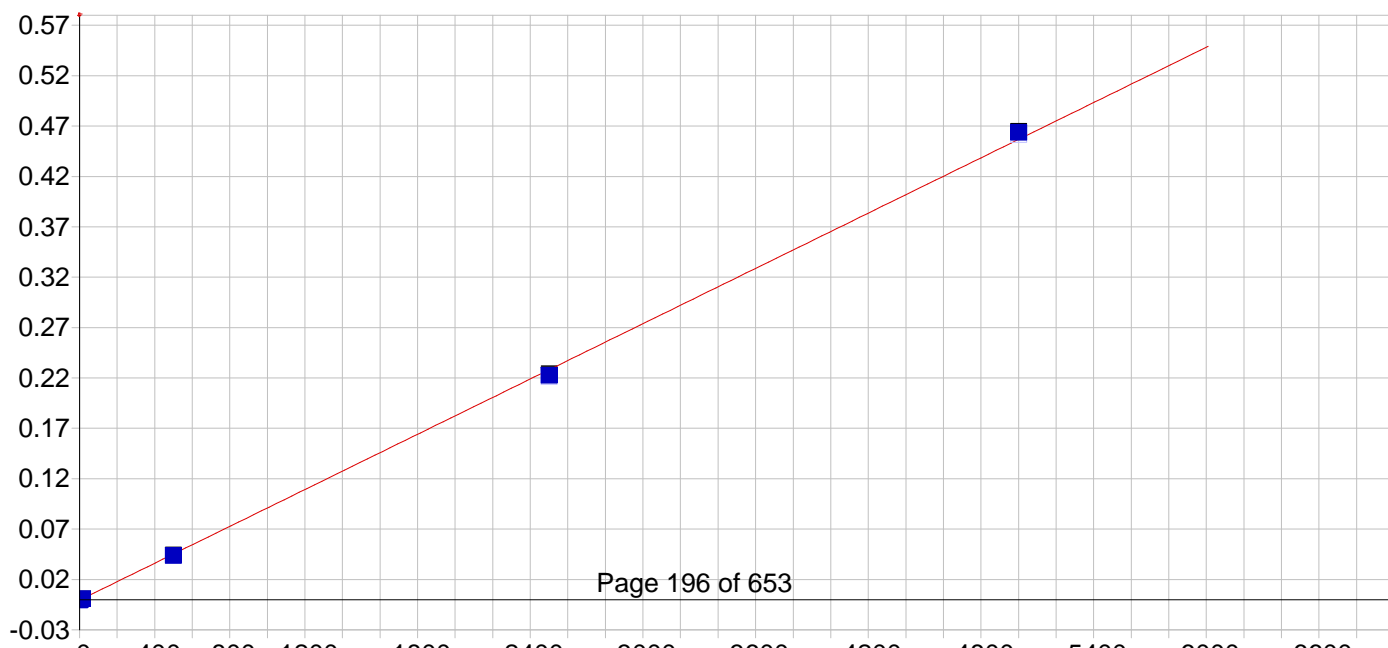


AI 396.152 { 85}

Date of Fit: 3/30/2016 11:30:40 Type of Fit: Linear Weighting: 1/Conc

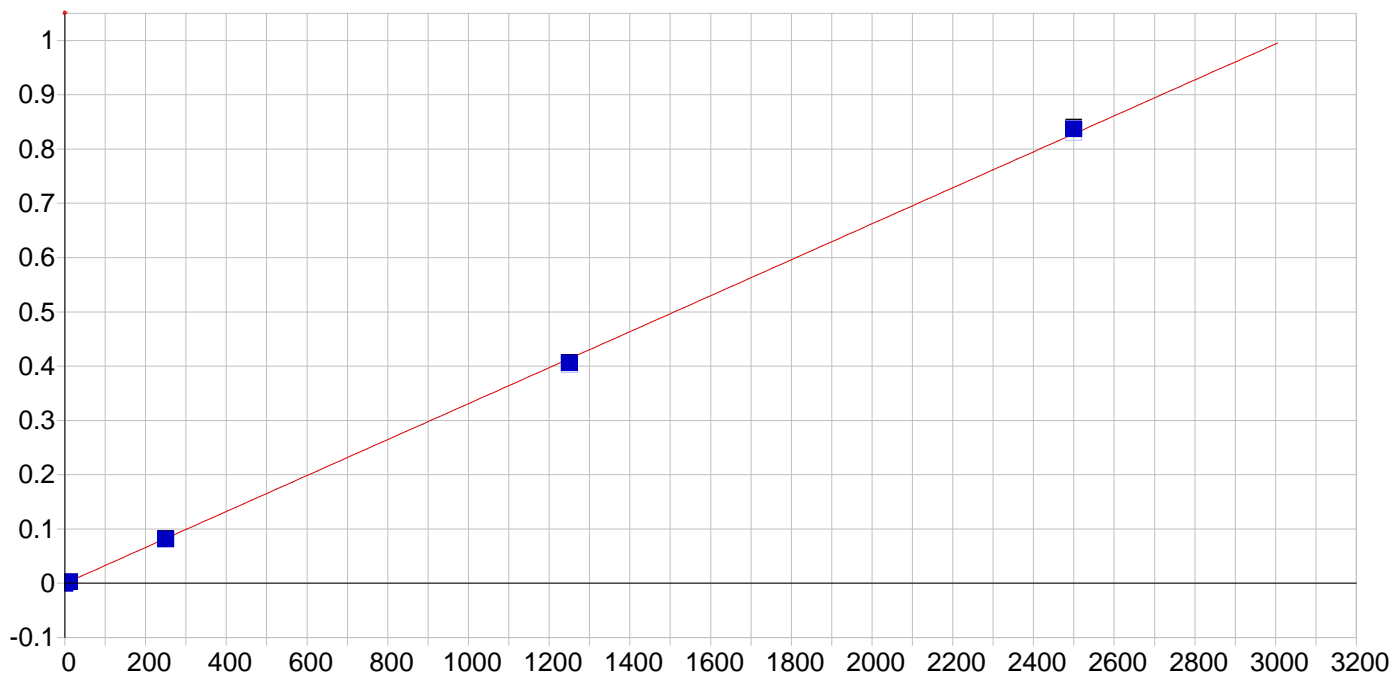
A0 (Offset): -0.000586 Re-Slope: 1.000000
 A1 (Gain): 0.000039 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999983 Status: OK.
 Std Error of Est: 0.000084
 Predicted MDL: 15.570606
 Predicted MQL: 51.902020

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.01323	-.013	.000	-.00059	.000	1
CAL2	200.00	212.72	12.7	6.36	.00775	.000	1
CAL3	25000.	25189.	189.	.756	.98462	.004	1
CAL4	125000.	123950.	-1050.	-.843	4.8473	.012	1
CAL5	250000.	250850.	852.	.341	9.8109	.015	1



Std Error of Est: 0.000014
 Predicted MDL: 1.948781
 Predicted MQL: 6.495936

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00023	-.000	.000	-.00046	.000	1
CAL2	15.000	14.800	-.200	-1.34	.00089	.000	1
CAL3	500.00	484.05	-15.9	-3.19	.04359	.000	1
CAL4	2500.0	2438.3	-61.7	-2.47	.22142	.001	1
CAL5	5000.0	5077.3	77.3	1.55	.46164	.001	1
CAL1	5.0000	5.4975	.498	9.95	.00004	.000	1

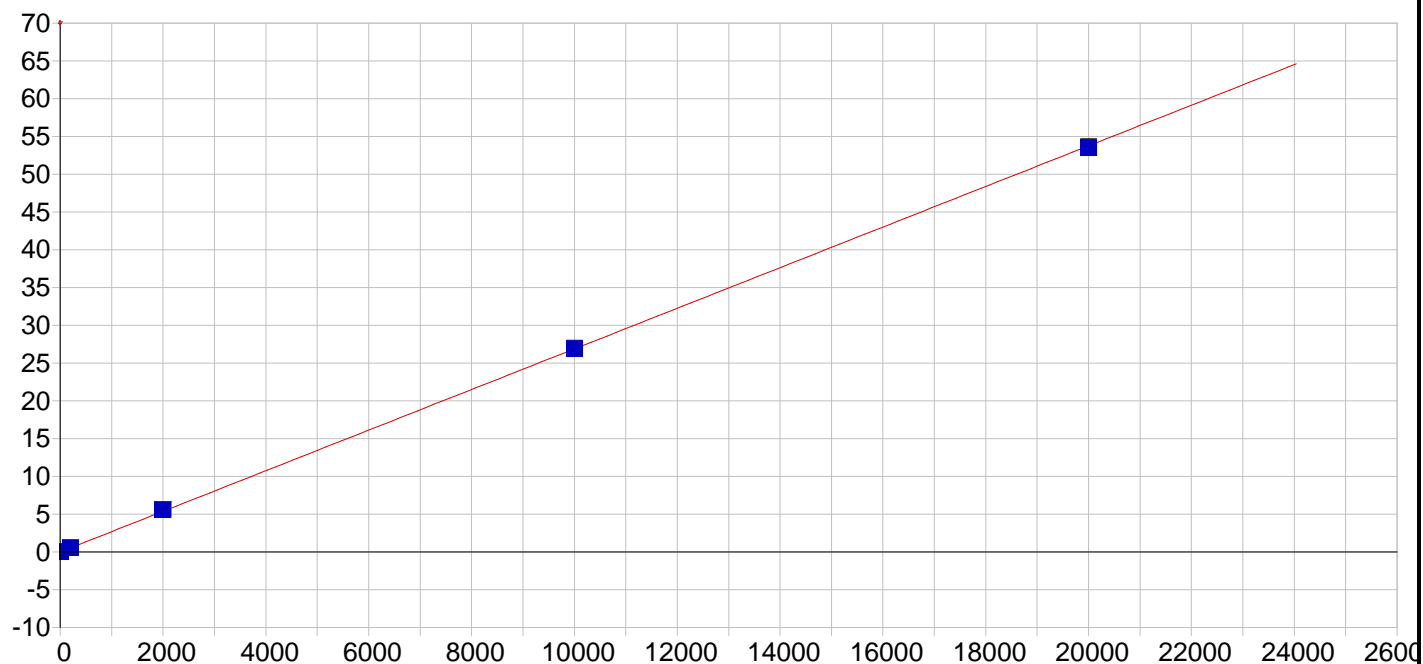


Ag 328.068 {103}

Date of Fit: 3/30/2016 11:30:40 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000353 Re-Slope: 1.000000
 A1 (Gain): 0.000331 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999899 Status: OK.
 Std Error of Est: 0.000038
 Predicted MDL: 0.535773
 Predicted MQL: 1.785910

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.00054	.001	.000	-.00035	.000	1
CAL2	10.000	9.6649	-.335	-3.35	.00282	.000	1
CAL3	250.00	246.94	-3.06	-1.22	.08075	.000	1
CAL4	1250.0	1226.2	-23.8	-1.91	.40236	.001	1
CAL5	2500.0	2527.2	27.2	1.09	.82987	.003	1

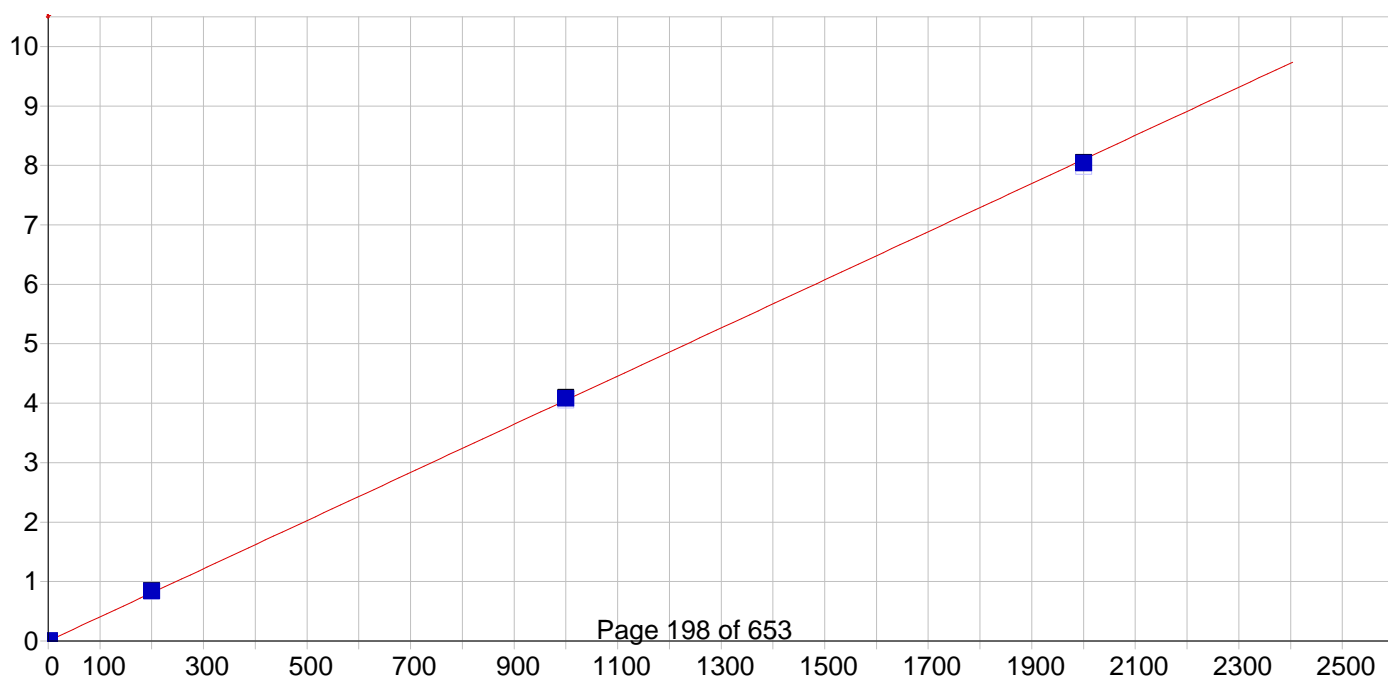


Ba 233.527 (445)

Date of Fit: 3/30/2016 11:30:40 Type of Fit: Linear Weighting: 1/Conc

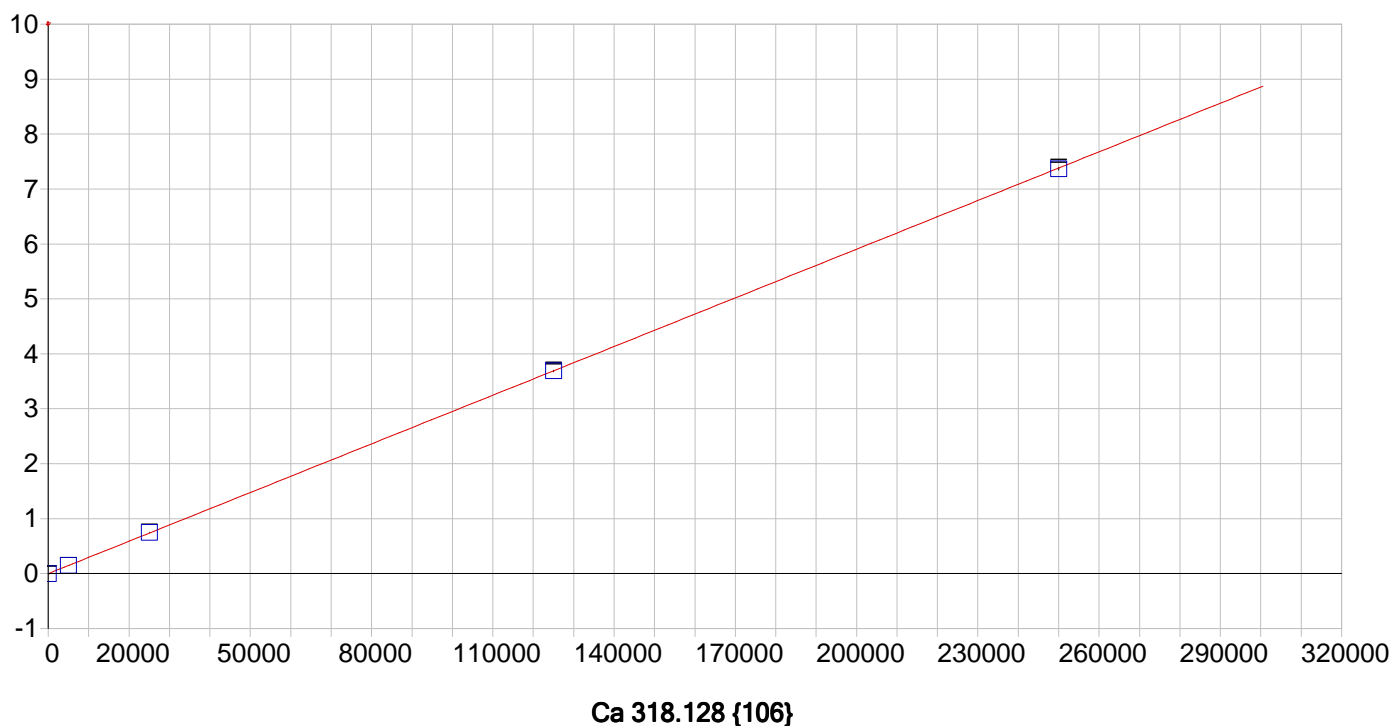
A0 (Offset):	-0.000017	Re-Slope: 1.000000
A1 (Gain):	0.002688	Y-int: 0.000000
A2 (Curvature):	0.000000	
n (Exponent):	1.000000	
Correlation:	0.999945	Status: OK.
Std Error of Est:	0.002925	
Predicted MDL:	0.118757	
Predicted MQL:	0.395856	

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.01182		-.012	.000	-.00005	.000	1
CAL2	200.00		204.79		4.79	2.40	.55025	.004	1
CAL3	2000.0		2078.4		78.4	3.92	5.5797	.002	1
CAL4	10000.		10002.		2.00	.020	26.850	.052	1
CAL5	20000.		19915.		-85.2	-.426	53.459	.071	1



Predicted MDL: 0.120110
 Predicted MQL: 0.400365

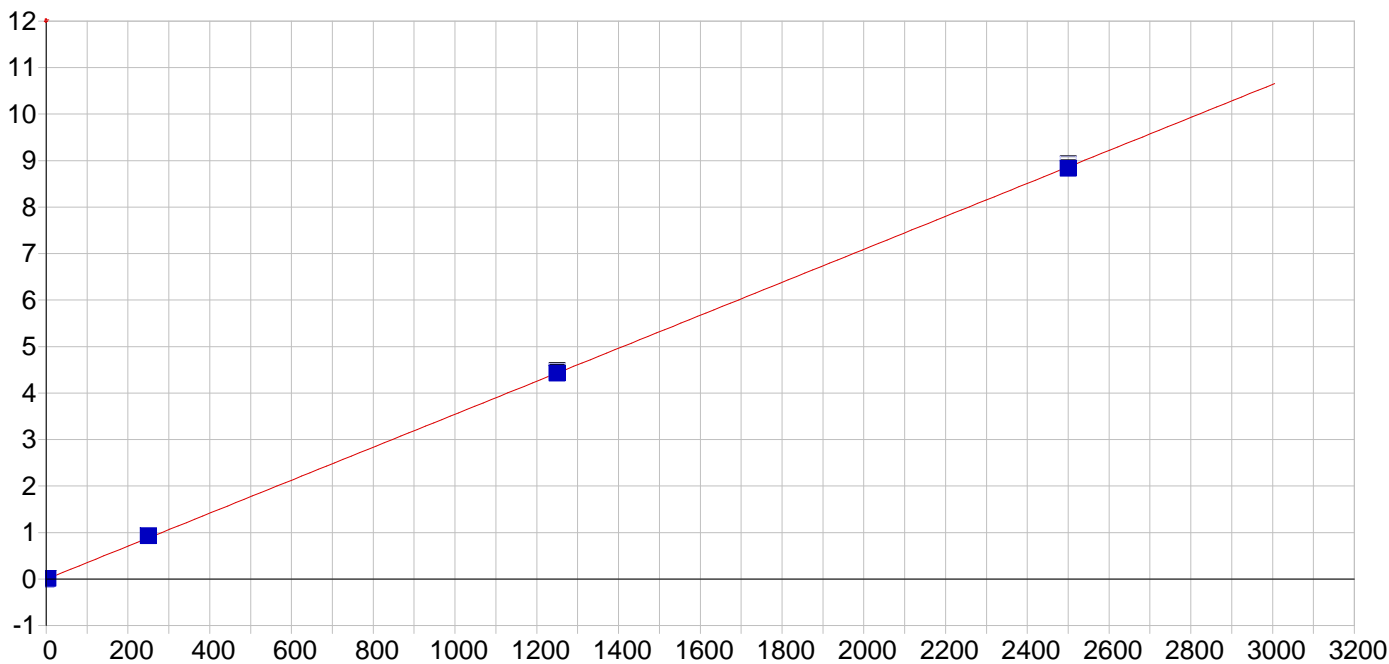
Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.00004		.000	.000	.00040	.000	1
CAL2	2.0000		1.8877		-.112	-5.61	.00799	.000	1
CAL3	200.00		207.46		7.46	3.73	.83461	.001	1
CAL4	1000.0		1007.2		7.23	.723	4.0498	.021	1
CAL5	2000.0		1985.4		-14.6	-.729	7.9815	.011	1



Date of Fit: 3/30/2016 11:30:40 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.001059 Re-Slope: 1.000000
 A1 (Gain): 0.000030 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999988 Status: OK.
 Std Error of Est: 0.000264
 Predicted MDL: 5.437572
 Predicted MQL: 18.125239

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.12790		-.128	.000	-.00106	.000	1
CAL2	5000.0		5048.3		48.3	.965	.14801	.001	1
CAL3	25000.		25457.		457.	1.83	.75064	.002	1
CAL4	125000.		124920.		-78.9	-.063	3.6877	.013	1
CAL5	250000.		249570.		-426.	-.170	7.3685	.026	1

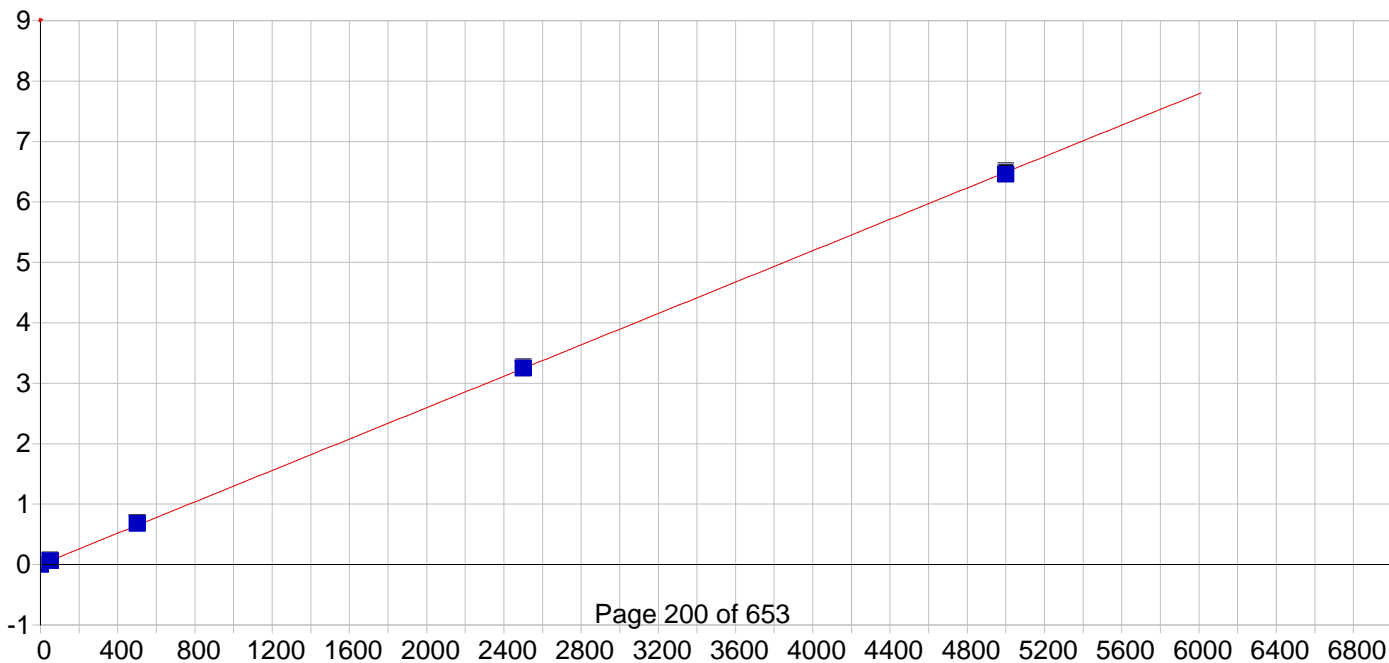


Cd 226.502 {449}

Date of Fit: 3/30/2016 11:30:40 Type of Fit: Linear Weighting: 1/Conc

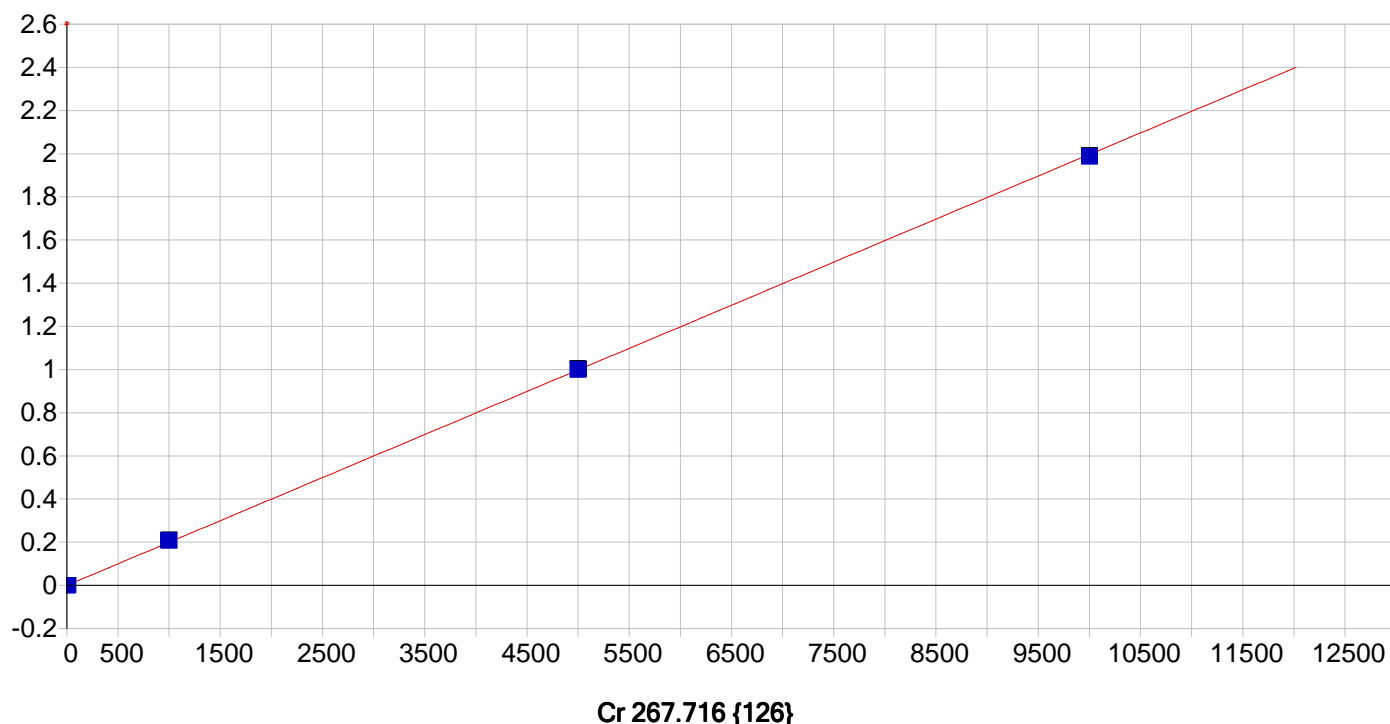
A0 (Offset): -0.002601 Re-Slope: 1.000000
 A1 (Gain): 0.003547 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999929 Status: OK.
 Std Error of Est: 0.000221
 Predicted MDL: 0.108866
 Predicted MQL: 0.362887

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00027		-.000	.000	-.00260	.000	1
CAL2	4.0000		4.1051		.105	2.63	.01203	.000	1
CAL3	250.00		261.63		11.6	4.65	.93431	.003	1
CAL4	1250.0		1247.7		-2.32	-.185	4.4675	.012	1
CAL5	2500.0		2490.6		-9.42	-.377	8.9206	.009	1



Predicted MDL: 0.249322
 Predicted MQL: 0.831074

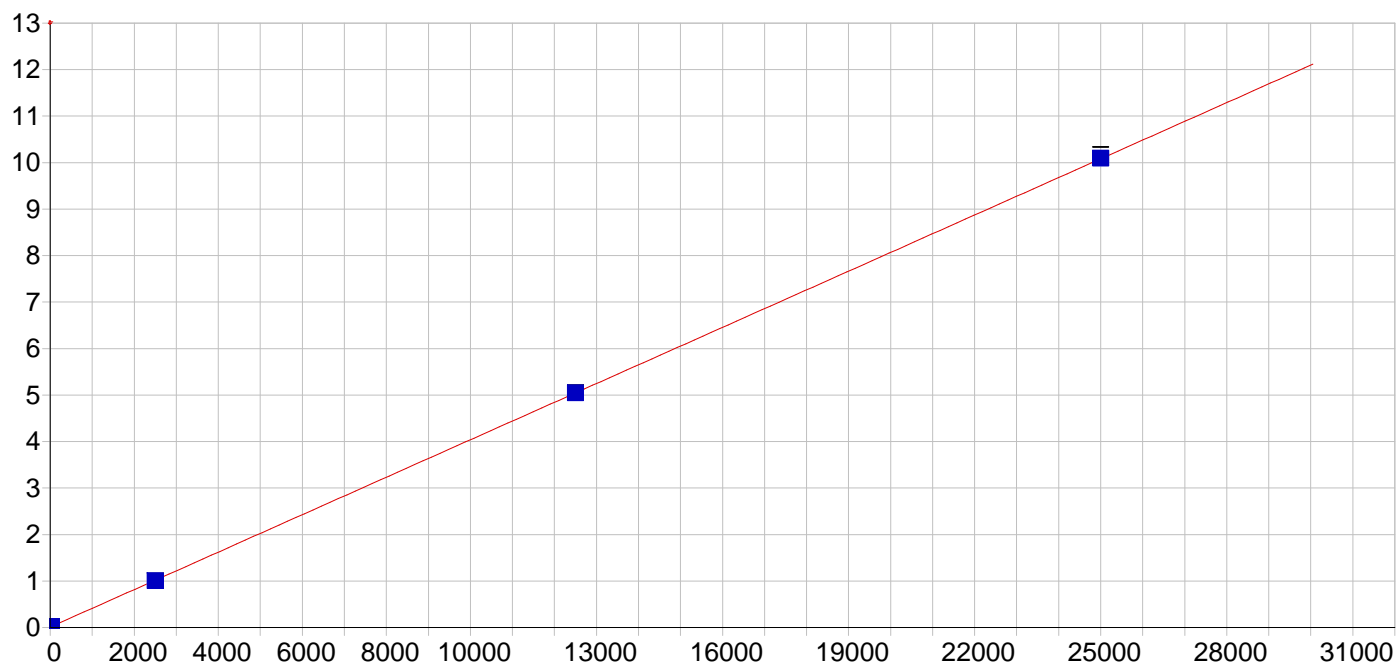
Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00435		-.004	.000	-.00060	.000	1
CAL2	50.000		52.121		2.12	4.24	.06710	.000	1
CAL3	500.00		524.95		25.0	4.99	.68544	.002	1
CAL4	2500.0		2500.0		.011	.000	3.2676	.006	1
CAL5	5000.0		4972.9		-27.1	-.541	6.5005	.011	1



Date of Fit: 3/30/2016 11:30:40 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000049 Re-Slope: 1.000000
 A1 (Gain): 0.000200 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999931 Status: OK.
 Std Error of Est: 0.000038
 Predicted MDL: 0.516364
 Predicted MQL: 1.721214

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00062		-.001	.000	.00005	.000	1
CAL2	10.000		10.212		.212	2.12	.00210	.000	1
CAL3	1000.0		1044.5		44.5	4.45	.20860	.001	1
CAL4	5000.0		5003.8		3.80	.076	.99918	.003	1
CAL5	10000.		9951.5		-48.5	-.485	1.9871	.004	1

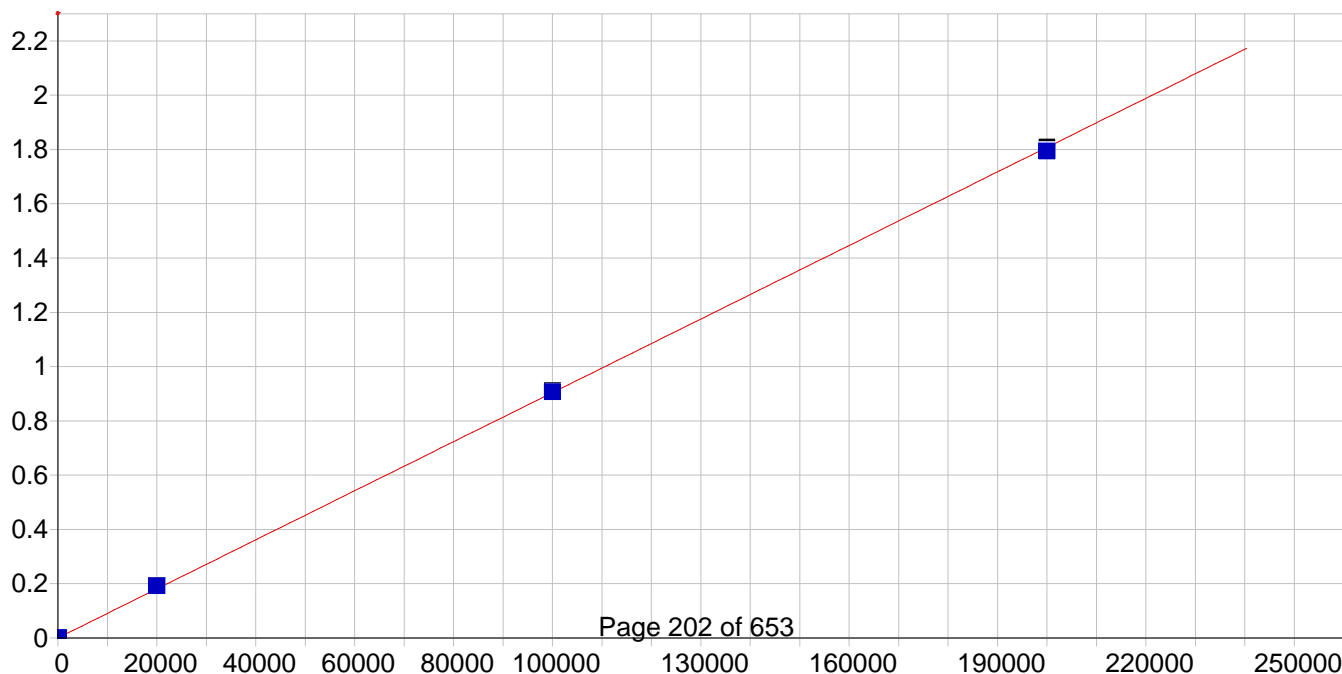


Cu 324.754 {104}

Date of Fit: 3/30/2016 11:30:40 Type of Fit: Linear Weighting: 1/Conc

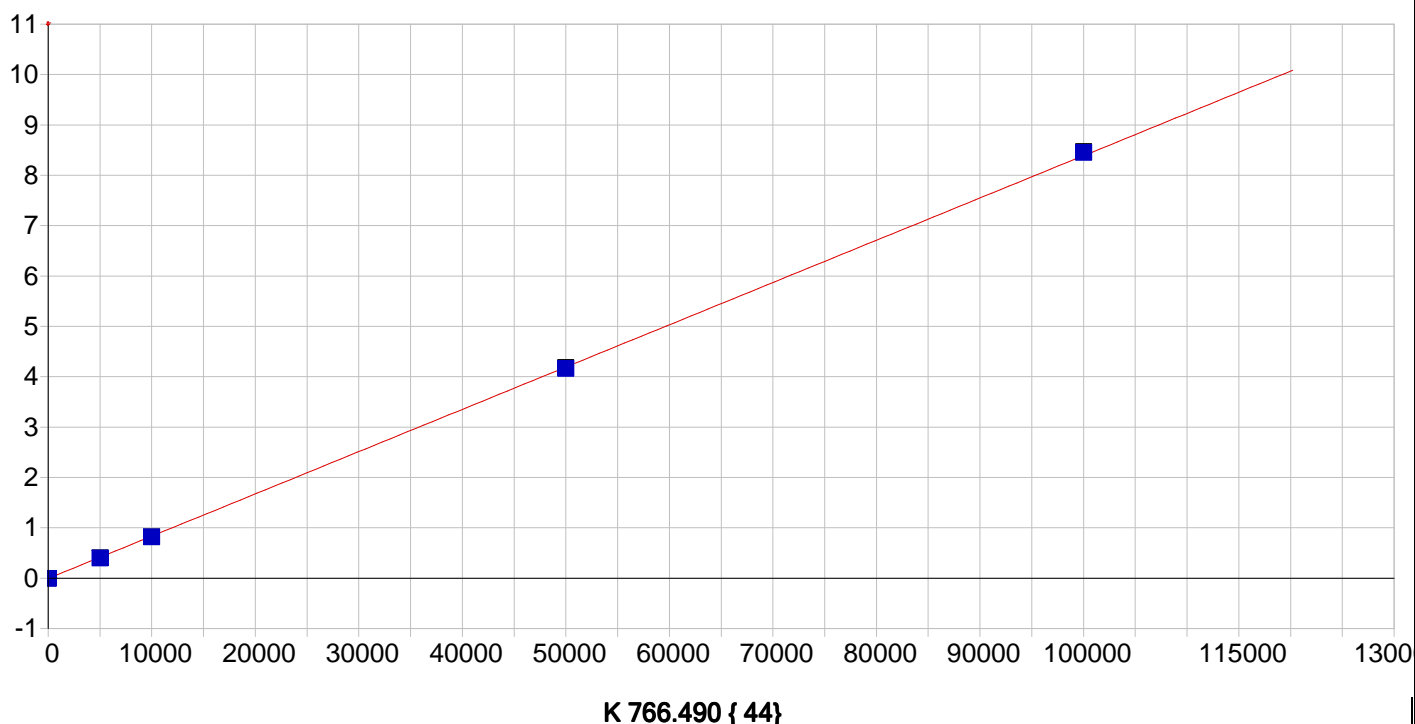
A0 (Offset): 0.009350 Re-Slope: 1.000000
 A1 (Gain): 0.000403 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999993 Status: OK.
 Std Error of Est: 0.000061
 Predicted MDL: 0.330342
 Predicted MQL: 1.101140

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.00176		.002	.000	.00935	.000	1
CAL2	25.000		23.527		-1.47	-5.89	.01881	.001	1
CAL3	2500.0		2468.0		-32.0	-1.28	1.0032	.002	1
CAL4	12500.		12497.		-3.01	-.024	5.0417	.007	1
CAL5	25000.		25037.		36.5	.146	10.091	.075	1



Predicted MDL: 11.511525
 Predicted MQL: 38.371751

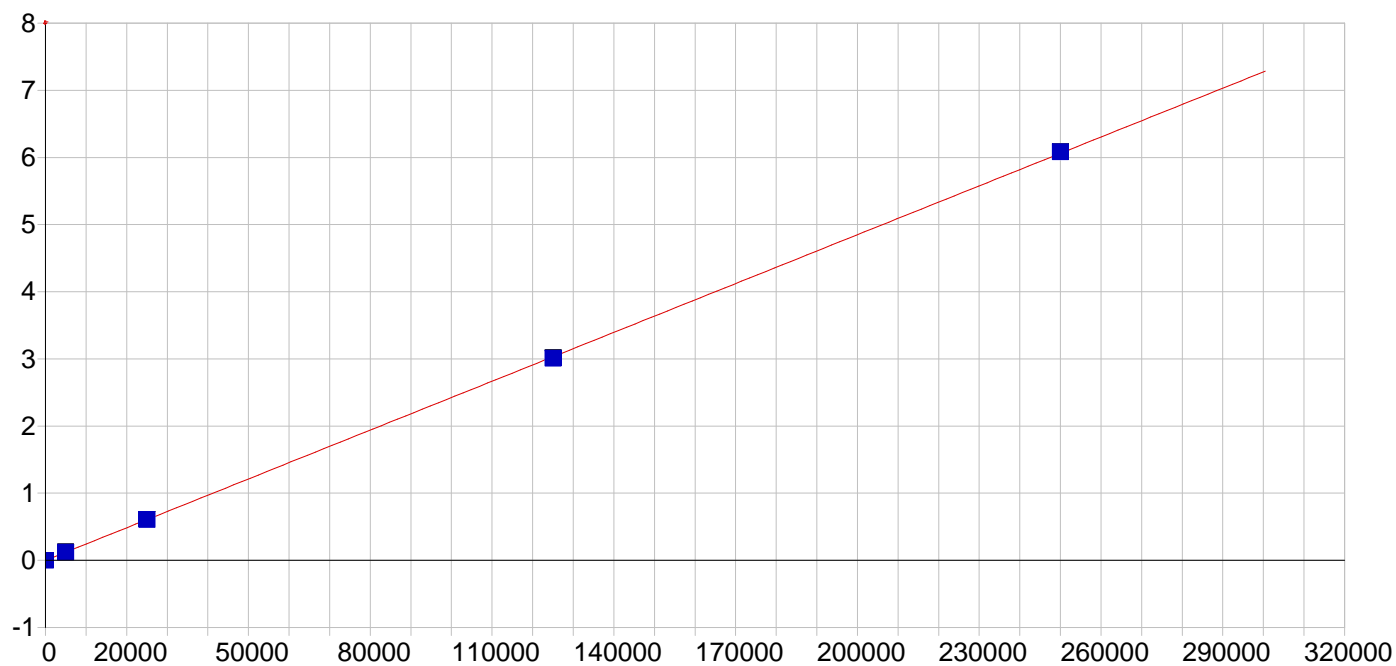
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.02359	-.024	.000	.00019	.000	1
CAL2	150.00	165.15	15.2	10.1	.00172	.000	1
CAL3	20000.	21217.	1220.	6.09	.19242	.001	1
CAL4	100000.	100310.	310.	.310	.90915	.003	1
CAL5	200000.	198460.	-1540.	-.772	1.7985	.009	1



Date of Fit: 3/30/2016 11:30:40 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.005918 Re-Slope: 1.000000
 A1 (Gain): 0.000084 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999943 Status: OK.
 Std Error of Est: 0.001054
 Predicted MDL: 31.909601
 Predicted MQL: 106.365336

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.28842	.288	.000	-.00589	.004	1
CAL2	5000.0	4788.0	-212.	-4.24	.39602	.001	1
CAL3	10000.	9845.3	-155.	-1.55	.82089	.003	1
CAL4	50000.	49651.	-349.	-.698	4.1637	.012	1
CAL5	100000.	100720.	715.	.715	8.4520	.010	1

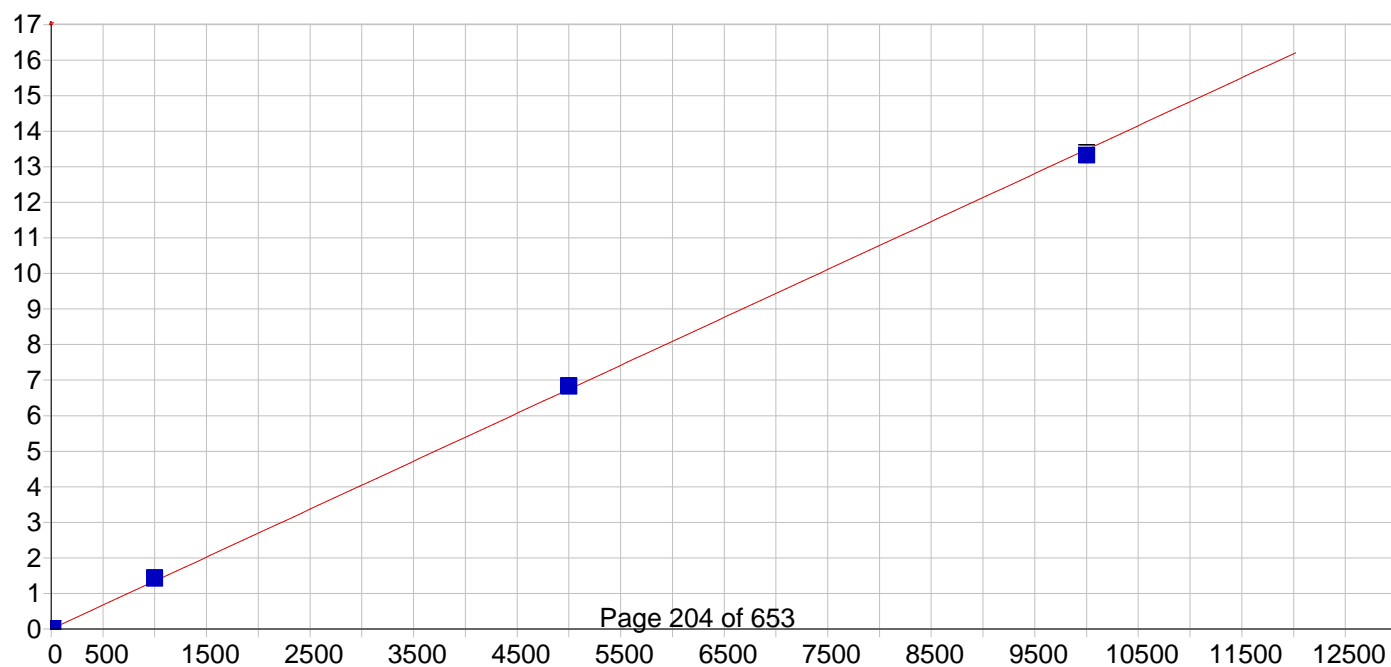


Mg 279.079 {121}

Date of Fit: 3/30/2016 11:30:41 Type of Fit: Linear Weighting: 1/Conc

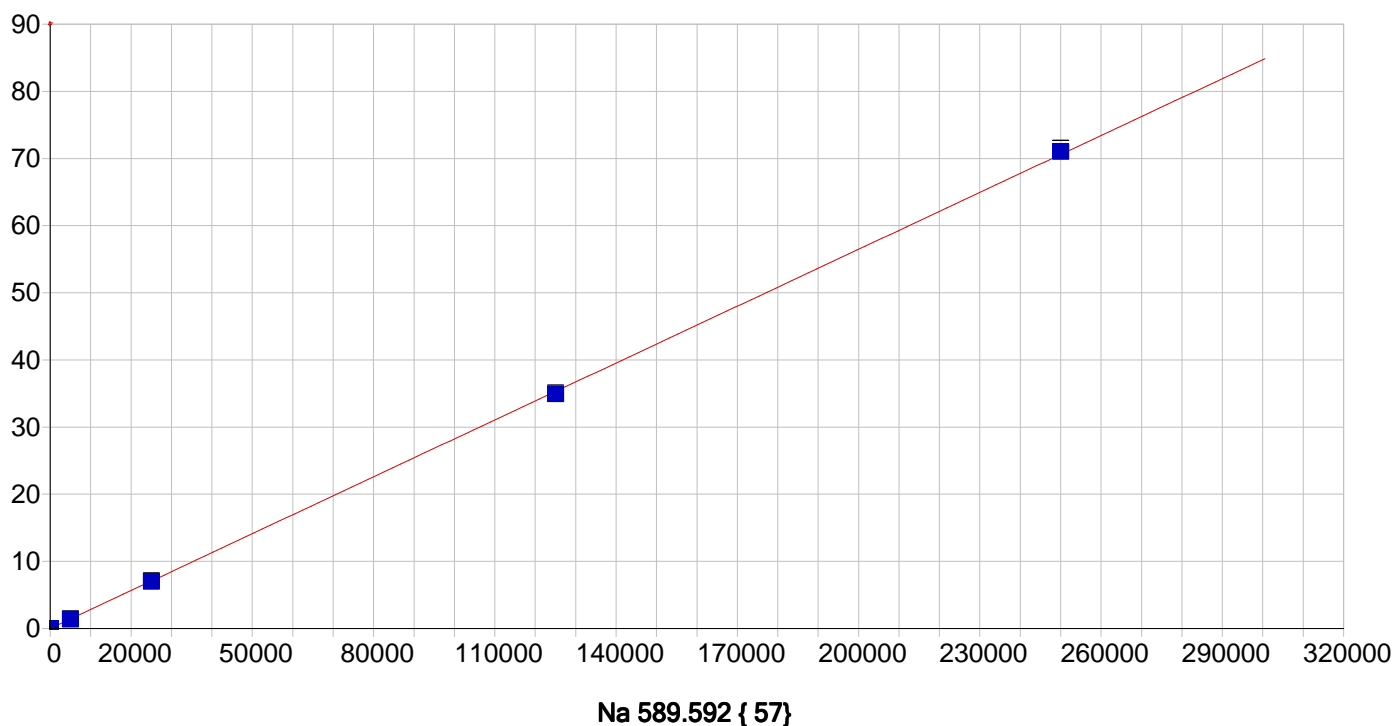
A0 (Offset): 0.000014 Re-Slope: 1.000000
 A1 (Gain): 0.000024 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999988 Status: OK.
 Std Error of Est: 0.000216
 Predicted MDL: 4.900655
 Predicted MQL: 16.335516

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.08269		.083	.000	.00002	.000	1
CAL2	5000.0		4928.9		-71.1	-1.42	.11952	.000	1
CAL3	25000.		25020.		19.5	.078	.60625	.001	1
CAL4	125000.		124170.		-826.	-.661	3.0088	.007	1
CAL5	250000.		250880.		877.	.351	6.0789	.005	1



Predicted MDL: 0.073156
Predicted MQL: 0.243852

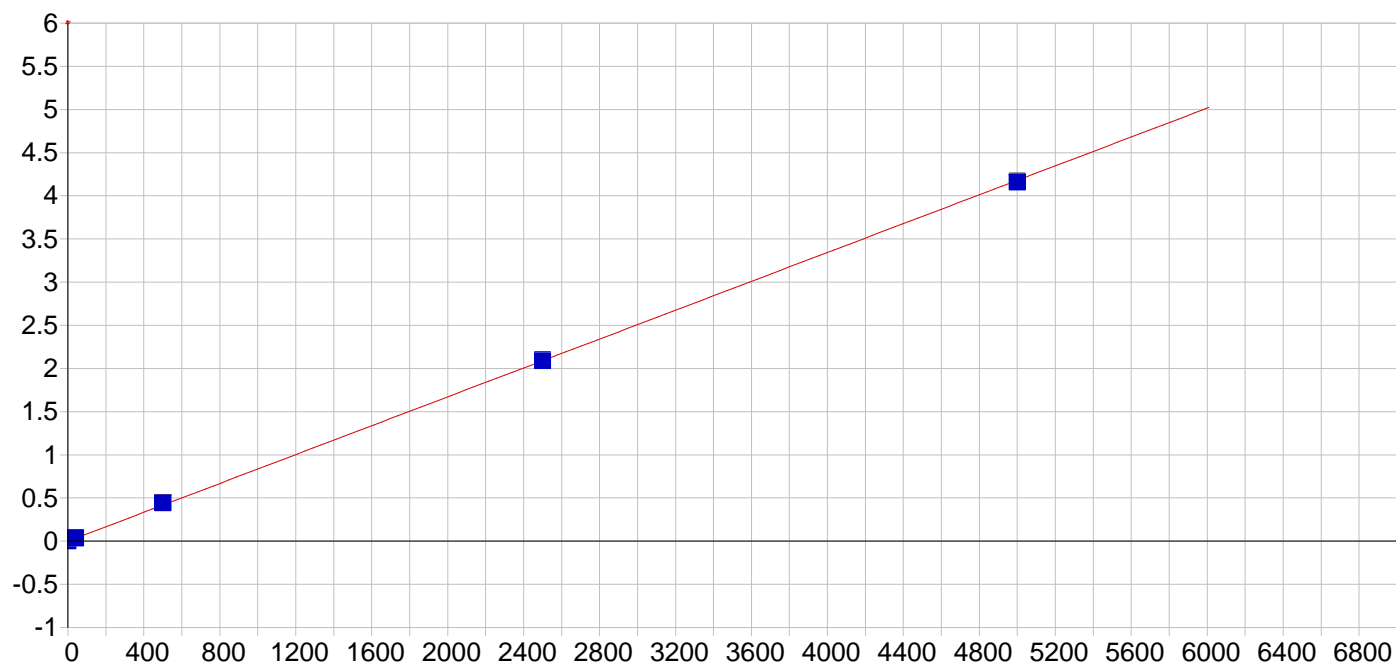
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00196	-.002	.000	.00029	.000	1
CAL2	15.000	16.110	1.11	7.40	.02202	.000	1
CAL3	1000.0	1056.3	56.3	5.63	1.4250	.004	1
CAL4	5000.0	5058.8	58.8	1.18	6.8236	.017	1
CAL5	10000.	9883.8	-116.	-1.16	13.332	.068	1



Date of Fit: 3/30/2016 11:30:41 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.006484 Re-Slope: 1.000000
A1 (Gain): 0.000282 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999963 Status: OK.
Std Error of Est: 0.004478
Predicted MDL: 8.214479
Predicted MQL: 27.381595

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.23139	.231	.000	.00655	.001	1
CAL2	5000.0	4820.4	-180.	-3.59	1.3676	.002	1
CAL3	25000.	24831.	-169.	-.677	7.0199	.034	1
CAL4	125000.	123750.	-1250.	-.997	34.960	.092	1
CAL5	250000.	251600.	1600.	.638	71.069	.447	1

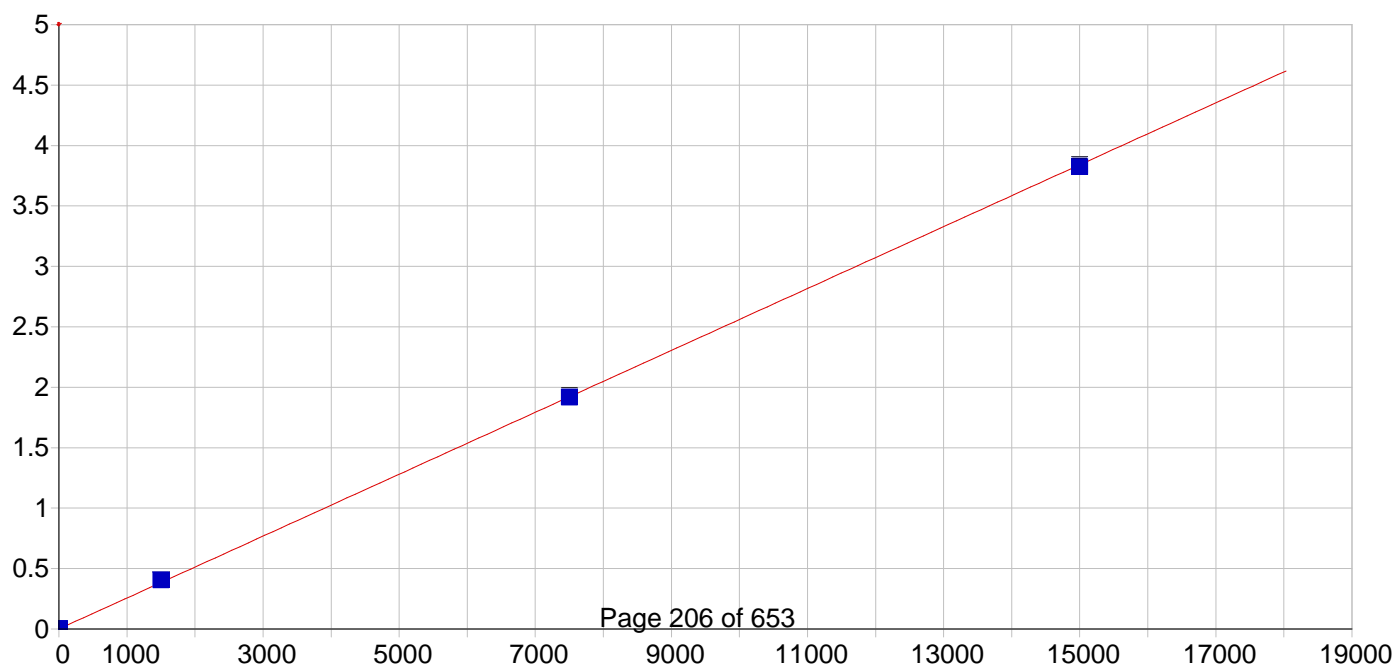


Ni 231.604 {446}

Date of Fit: 3/30/2016 11:30:41 Type of Fit: Linear Weighting: 1/Conc

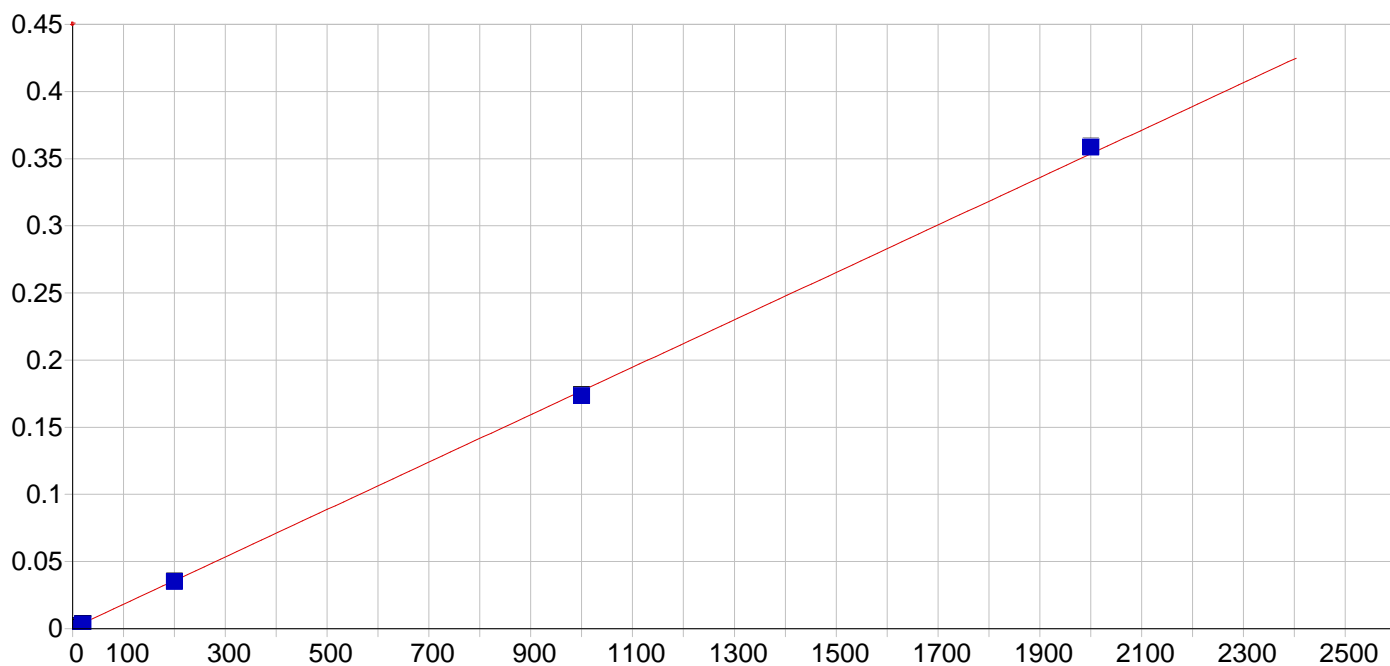
A0 (Offset): -0.000491 Re-Slope: 1.000000
 A1 (Gain): 0.000836 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999881 Status: OK.
 Std Error of Est: 0.000299
 Predicted MDL: 0.443431
 Predicted MQL: 1.478103

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-0.00363		-0.004	.000	-.00049	.000	1
CAL2	40.000		41.558		1.56	3.90	.03426	.000	1
CAL3	500.00		529.10		29.1	5.82	.44238	.001	1
CAL4	2500.0		2498.1		-1.95	-.078	2.0906	.007	1
CAL5	5000.0		4971.3		-28.7	-.574	4.1610	.006	1



Predicted MDL: 1.353155
 Predicted MQL: 4.510517

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00125		-.001	.000	.00033	.000	1
CAL2	10.000		11.073		1.07	10.7	.00317	.000	1
CAL3	1500.0		1584.7		84.7	5.65	.40743	.001	1
CAL4	7500.0		7484.7		-15.3	-.204	1.9235	.006	1
CAL5	15000.		14929.		-70.9	-.473	3.8363	.008	1
CAL1	5.0000		5.4670		.467	9.34	.00173	.000	1

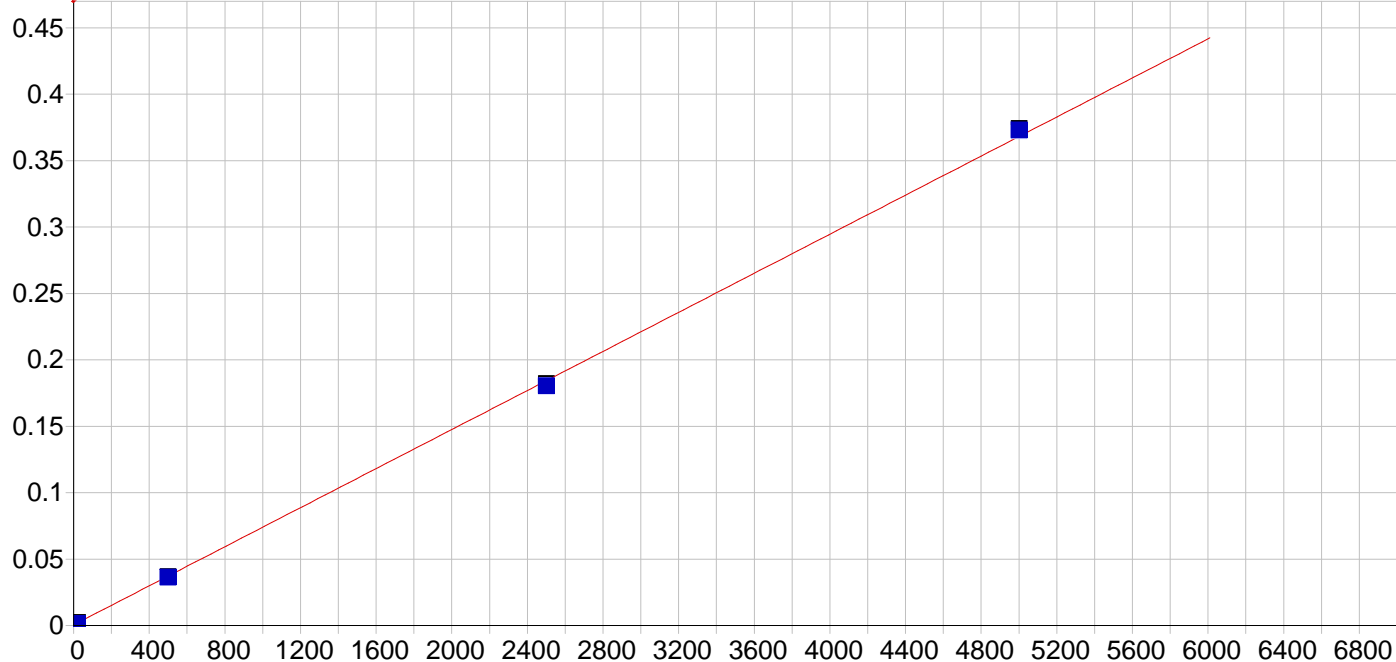


Sb 206.833 {463}

Date of Fit: 3/30/2016 11:30:41 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000497 Re-Slope: 1.000000
 A1 (Gain): 0.000177 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999795 Status: OK.
 Std Error of Est: 0.000025
 Predicted MDL: 1.526334
 Predicted MQL: 5.087781

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.00244		.002	.000	.00050	.000	1
CAL2	20.000		17.108		-2.89	-14.5	.00341	.000	1
CAL3	200.00		195.99		-4.01	-2.00	.03516	.000	1
CAL4	1000.0		980.06		-19.9	-1.99	.17381	.000	1
CAL5	2000.0		2027.5		27.5	1.37	.35902	.000	1
CAL1	10.000		9.2720		-.728	-7.28	.00213	.000	1

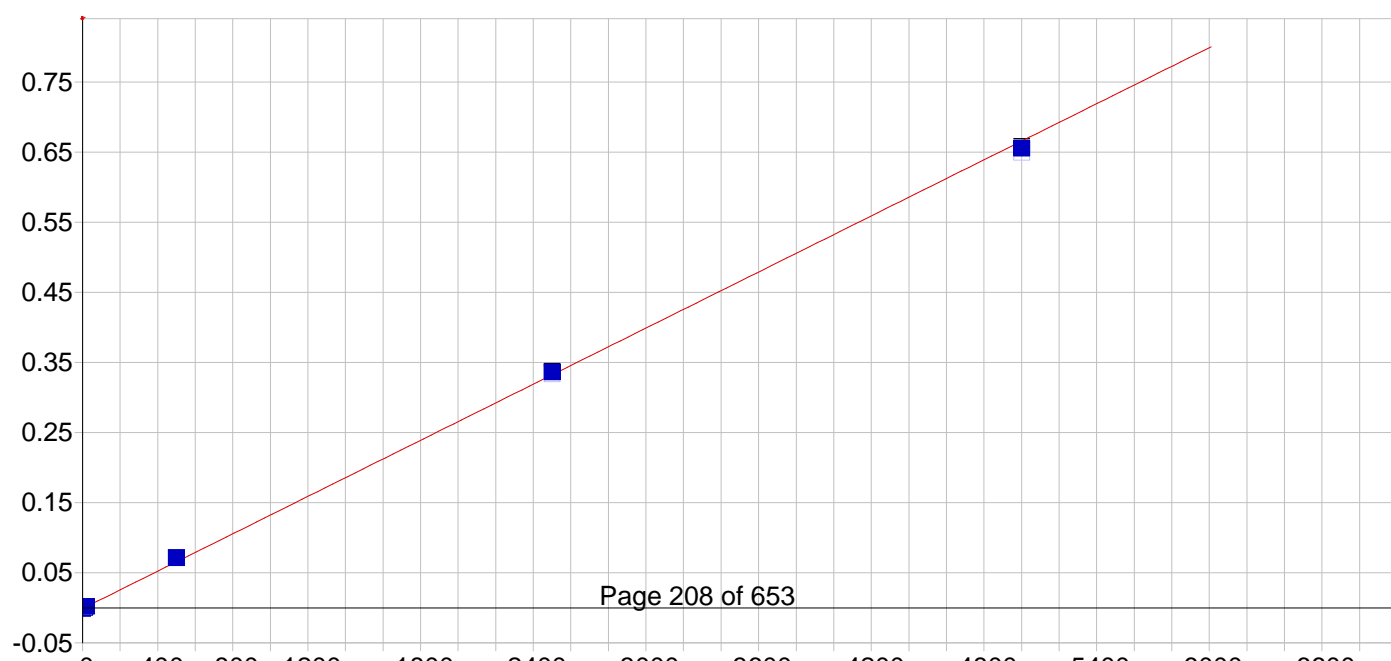


Se 196.090 {472}

Date of Fit: 3/30/2016 11:30:41 Type of Fit: Linear Weighting: 1/Conc

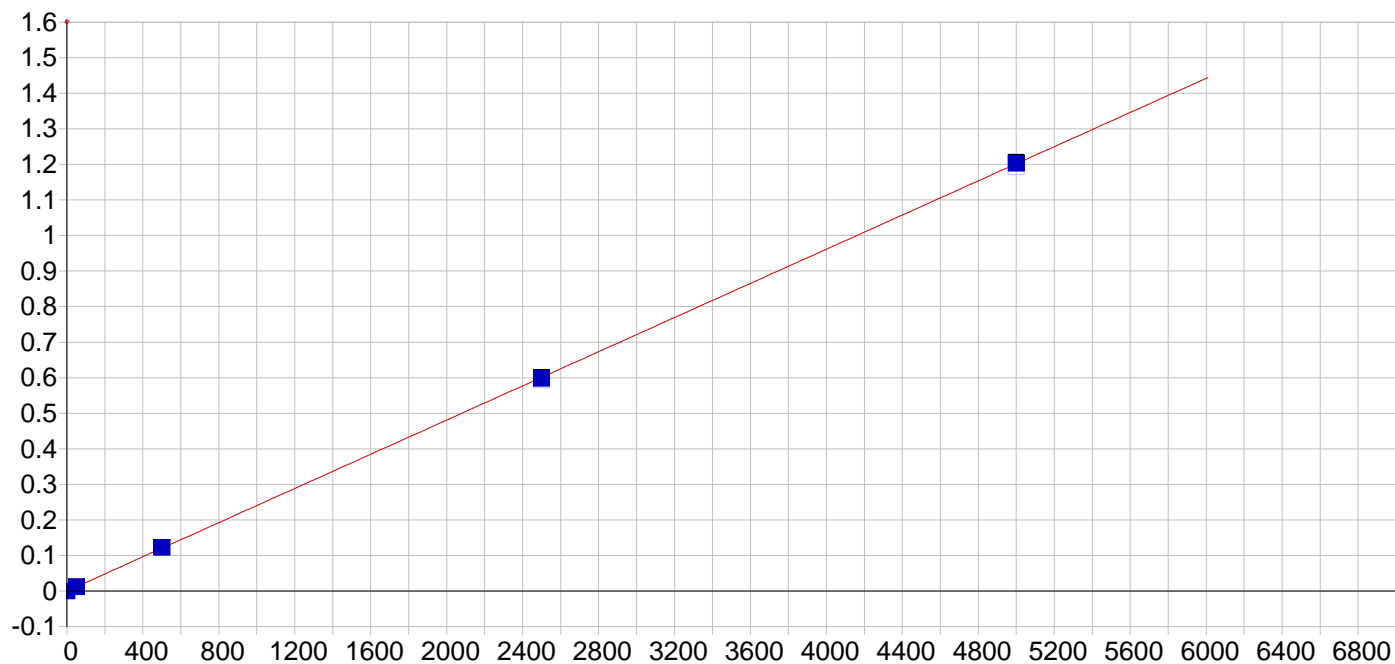
A0 (Offset): 0.000471 Re-Slope: 1.000000
 A1 (Gain): 0.000074 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999835 Status: OK.
 Std Error of Est: 0.000010
 Predicted MDL: 2.905465
 Predicted MQL: 9.684882

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.00012		.000	.000	.00047	.000	1
CAL2	20.000		17.524		-2.48	-12.4	.00176	.000	1
CAL3	500.00		487.75		-12.3	-2.45	.03627	.000	1
CAL4	2500.0		2448.2		-51.8	-2.07	.18016	.001	1
CAL5	5000.0		5065.9		65.9	1.32	.37231	.001	1
CAL1	5.0000		5.6572		.657	13.1	.00089	.000	1



Std Error of Est: 0.000040
 Predicted MDL: 1.852786
 Predicted MQL: 6.175952

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00262	-.003	.000	-.00107	.000	1
CAL2	20.000	23.080	3.08	15.4	.00195	.000	1
CAL3	500.00	543.79	43.8	8.76	.07091	.000	1
CAL4	2500.0	2531.1	31.1	1.24	.33378	.001	1
CAL5	5000.0	4921.8	-78.2	-1.56	.64991	.003	1
CAL1	10.000	10.233	.233	2.33	.00030	.000	1

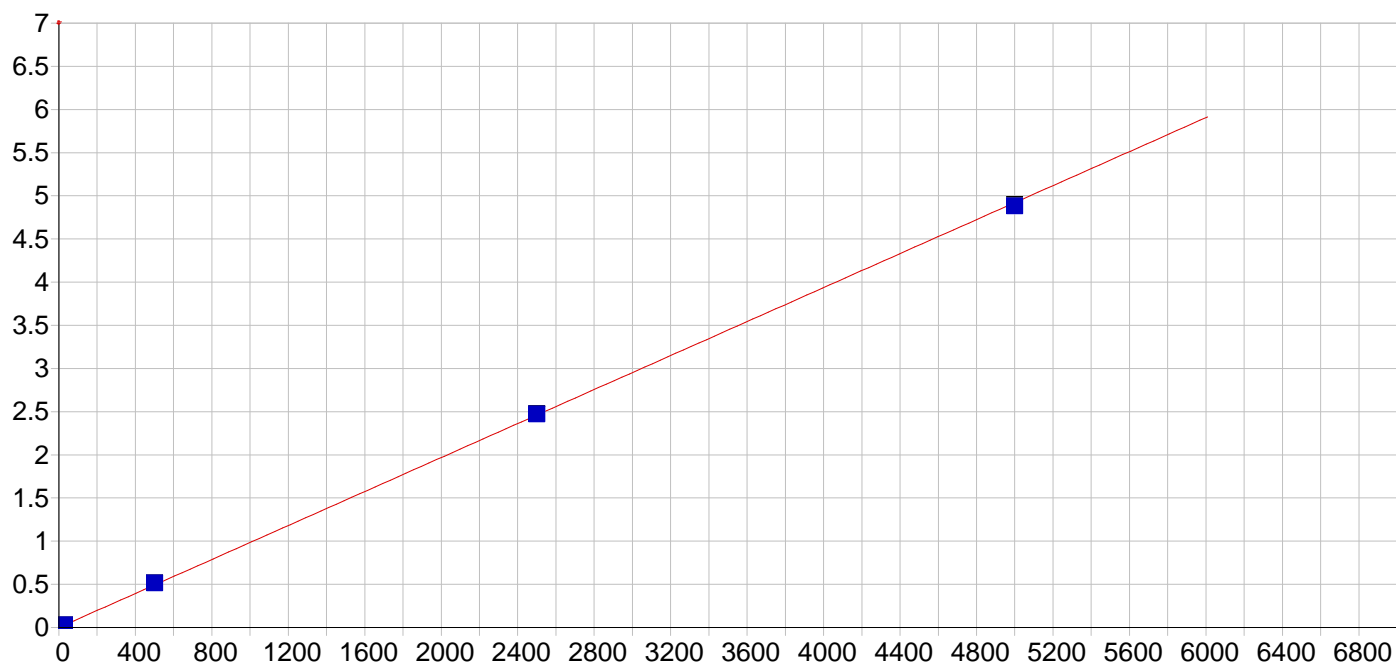


V 292.402 {115}

Date of Fit: 3/30/2016 11:30:41 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000023 Re-Slope: 1.000000
 A1 (Gain): 0.000240 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999987 Status: OK.
 Std Error of Est: 0.000031
 Predicted MDL: 0.476024
 Predicted MQL: 1.586747

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00005	-.000	.000	.00002	.000	1
CAL2	50.000	49.422	-.578	-1.16	.01186	.000	1
CAL3	500.00	508.22	8.22	1.64	.12121	.000	1
CAL4	2500.0	2488.1	-11.9	-.475	.59323	.003	1
CAL5	5000.0	5004.2	4.25	.085	1.1932	.002	1

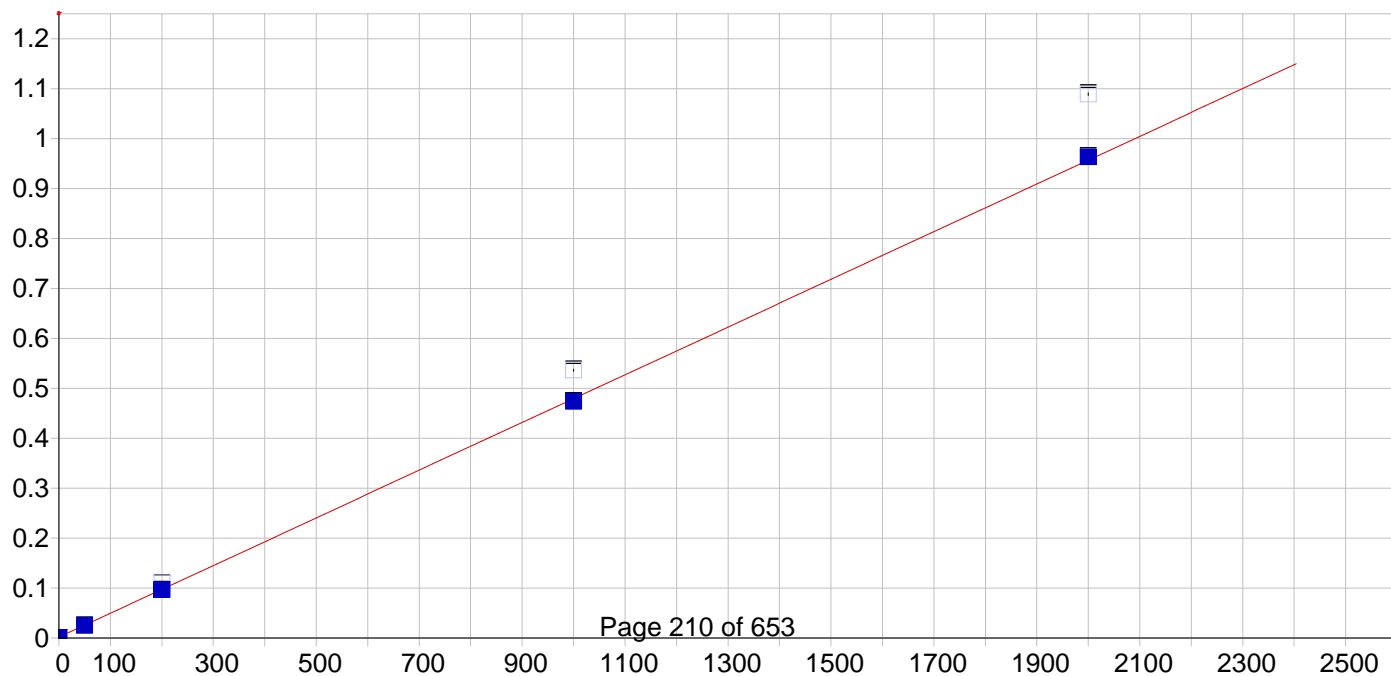


Zn 206.200 {463}

Date of Fit: 3/30/2016 11:30:41 Type of Fit: Linear Weighting: 1/Conc

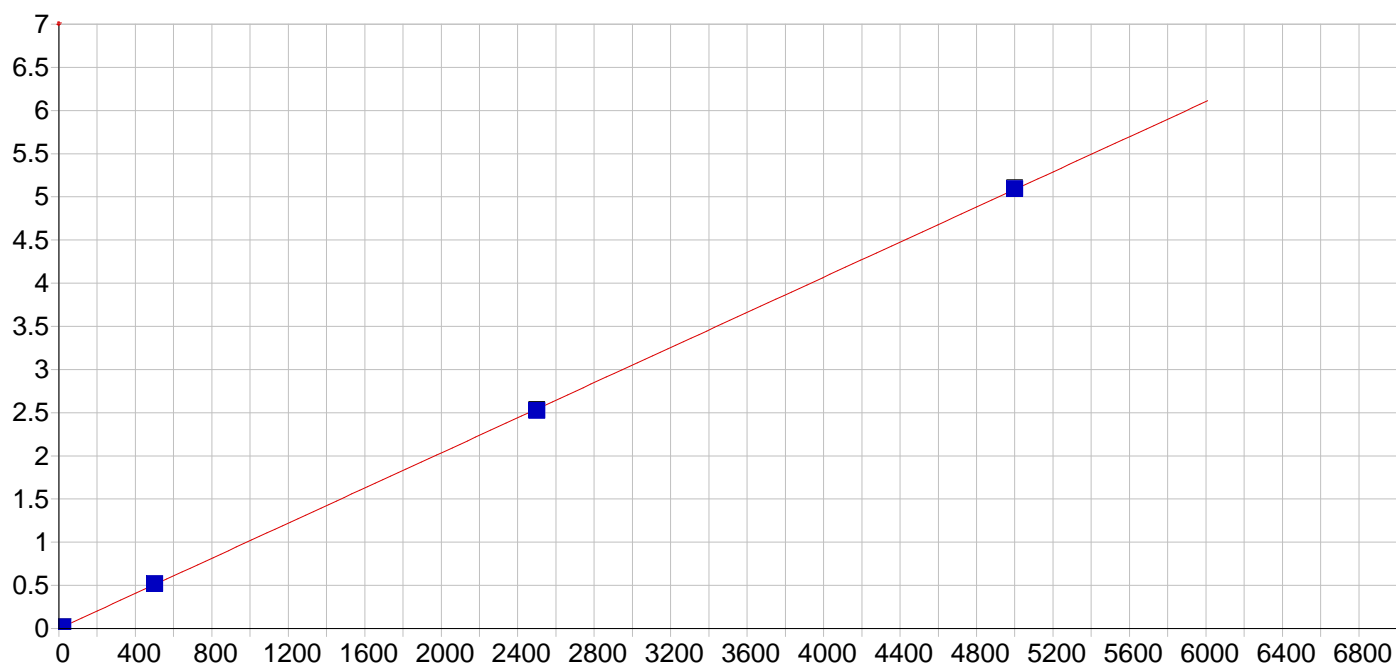
A0 (Offset): 0.000206 Re-Slope: 1.000000
 A1 (Gain): 0.000984 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999901 Status: OK.
 Std Error of Est: 0.000278
 Predicted MDL: 0.222512
 Predicted MQL: 0.741708

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00246		-.002	.000	.00020	.000	1
CAL2	30.000		31.059		1.06	3.53	.03077	.000	1
CAL3	500.00		524.77		24.8	4.95	.51628	.002	1
CAL4	2500.0		2511.5		11.5	.458	2.4700	.005	1
CAL5	5000.0		4962.7		-37.3	-.746	4.8805	.015	1



Predicted MDL: 0.533801
Predicted MQL: 1.779337

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.00135		.001	.000	.00178	.000	1
CAL2	50.000		49.033		-.967	-1.93	.02570	.001	1
CAL3	200.00		199.57		-.429	-.214	.10966	.000	1
CAL4	1000.0		987.59		-12.4	-1.24	.53629	.002	1
CAL5	2000.0		2013.7		13.7	.686	1.0892	.003	1

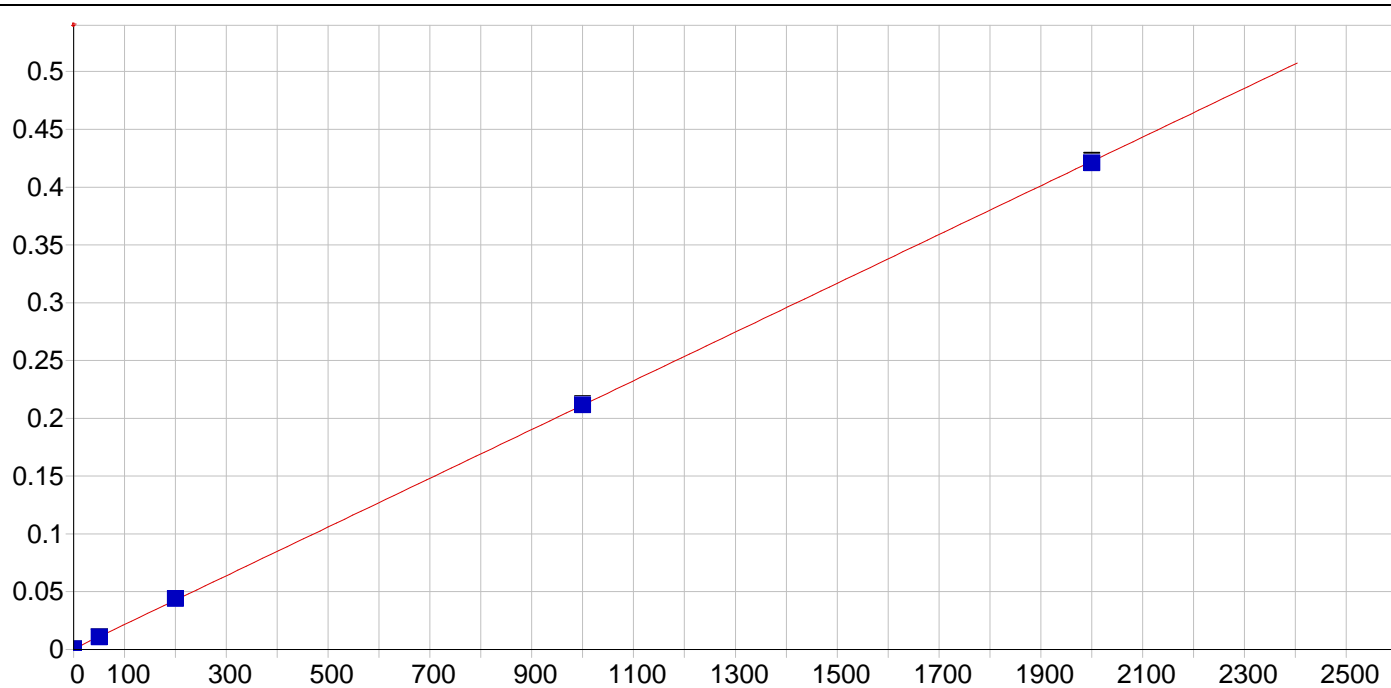


Mo 202.030 {467}

Date of Fit: 3/30/2016 11:30:41 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000271 Re-Slope: 1.000000
A1 (Gain): 0.001017 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999977 Status: OK.
Std Error of Est: 0.000112
Predicted MDL: 0.222207
Predicted MQL: 0.740691

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.00018		.000	.000	.00027	.000	1
CAL2	20.000		19.523		-.477	-2.38	.02013	.000	1
CAL3	500.00		510.19		10.2	2.04	.51902	.001	1
CAL4	2500.0		2481.9		-18.1	-.725	2.5237	.006	1
CAL5	5000.0		5008.4		8.40	.168	5.0926	.007	1

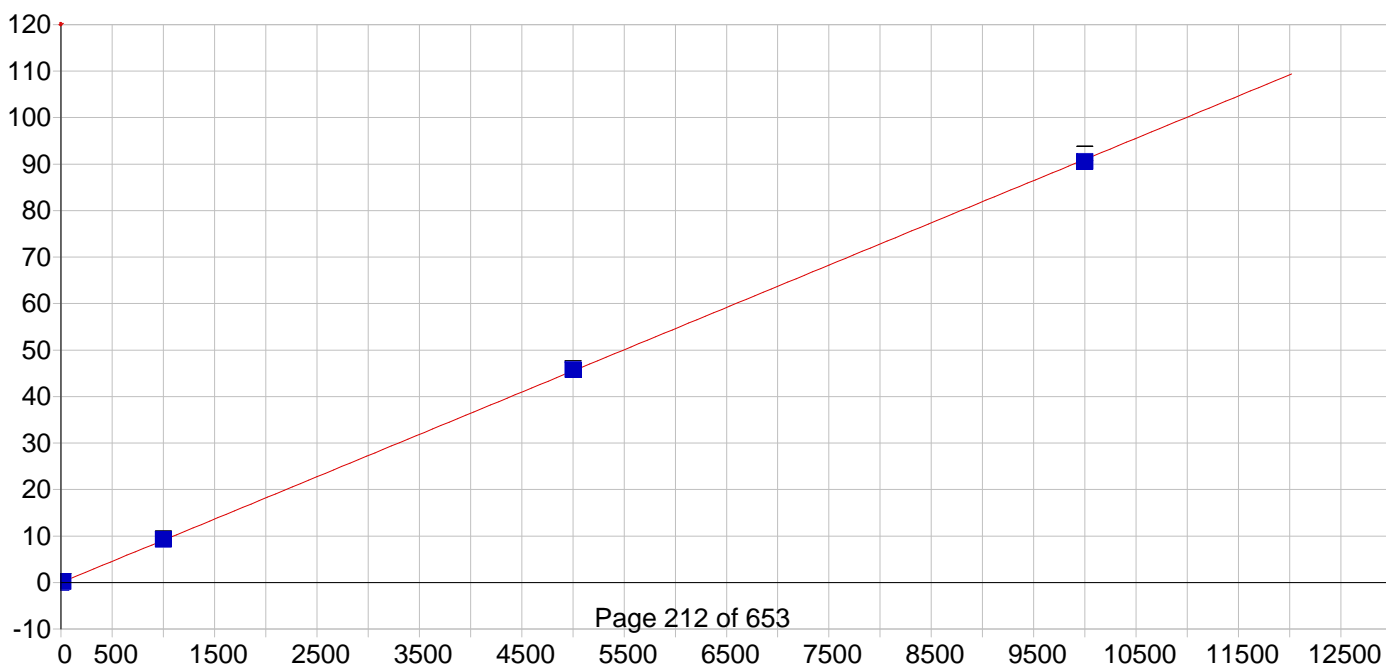


Sn 189.989 {477}

Date of Fit: 3/30/2016 11:30:41 Type of Fit: Linear Weighting: 1/Conc

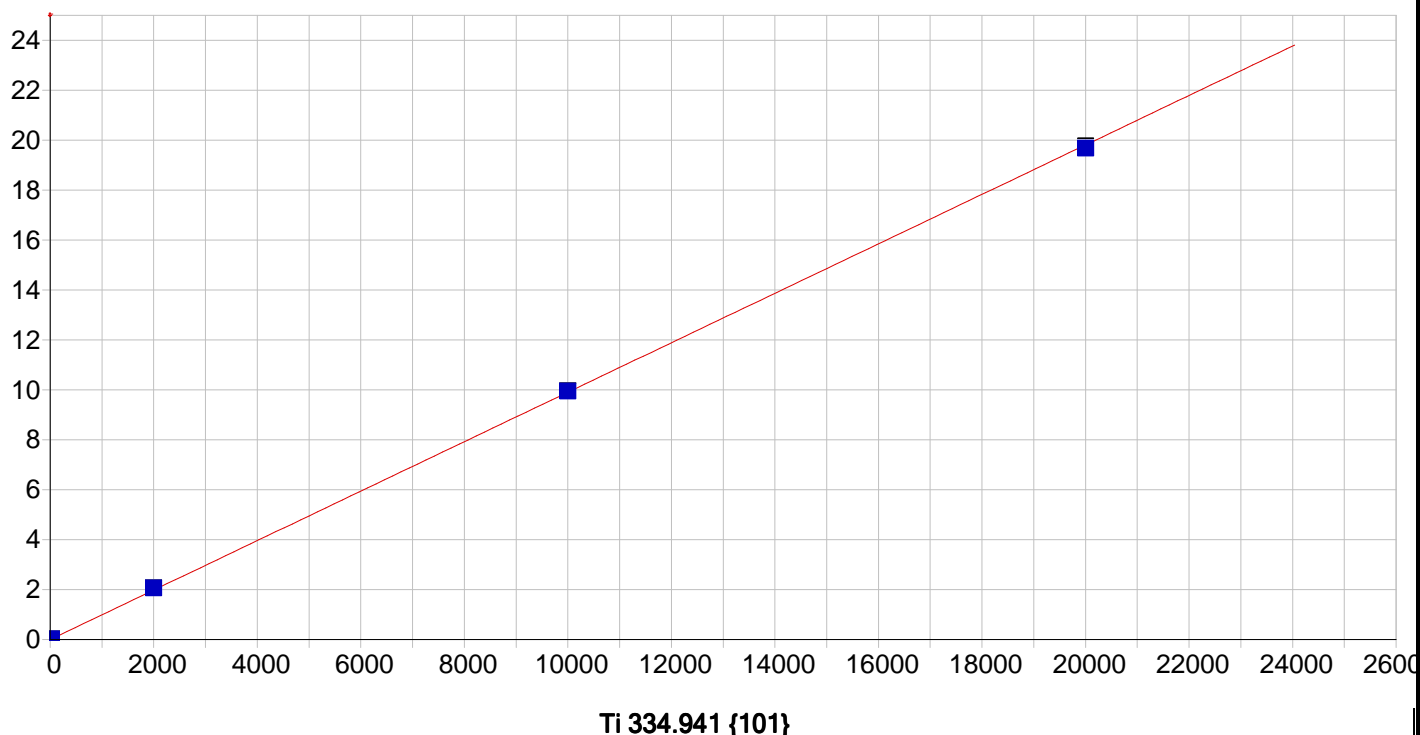
A0 (Offset): 0.000554 Re-Slope: 1.000000
 A1 (Gain): 0.000211 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999968 Status: OK.
 Std Error of Est: 0.000028
 Predicted MDL: 0.785398
 Predicted MQL: 2.617995

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-0.00055		-.001	.000	.00055	.000	1
CAL2	50.000		49.167		-.833	-1.67	.01092	.000	1
CAL3	200.00		206.00		6.00	3.00	.04404	.000	1
CAL4	1000.0		1000.5		.534	.053	.21179	.001	1
CAL5	2000.0		1994.3		-5.70	-.285	.42160	.002	1



Predicted MDL: 0.111927
 Predicted MQL: 0.373090

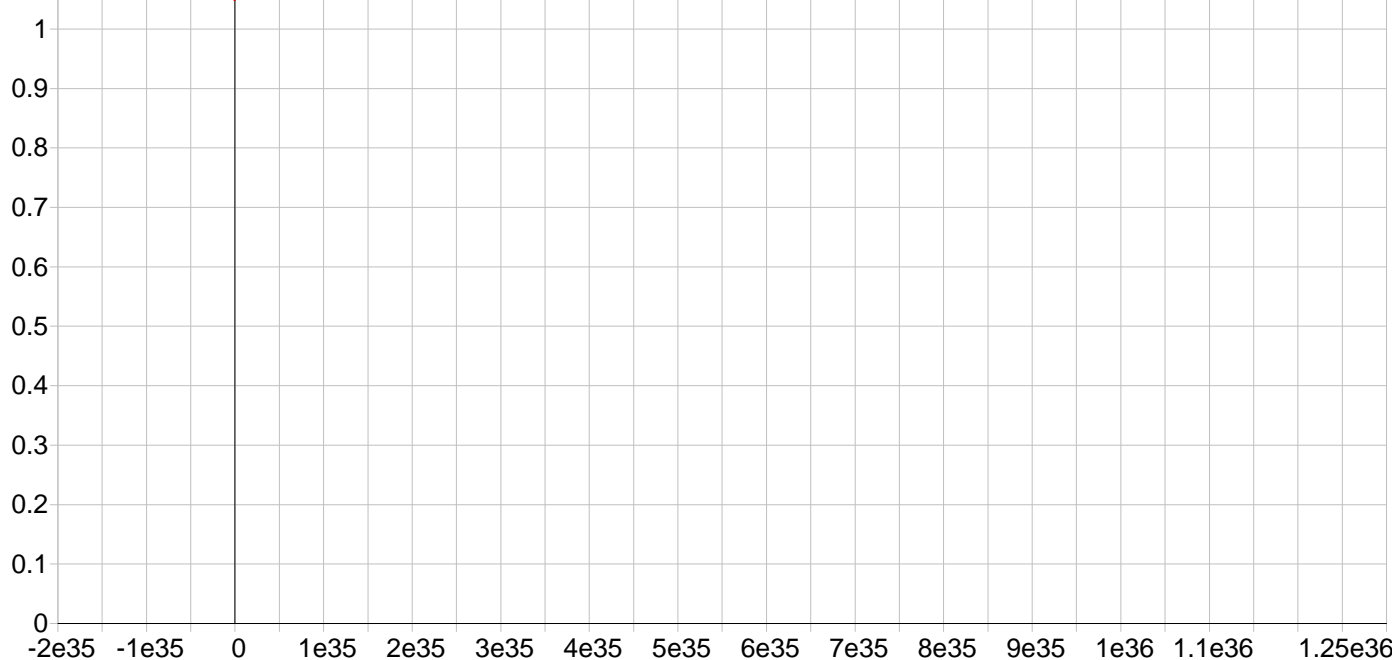
Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00084		-.001	.000	-.00241	.000	1
CAL2	20.000		20.420		.420	2.10	.18372	.002	1
CAL3	1000.0		1020.1		20.1	2.01	9.2871	.027	1
CAL4	5000.0		5031.2		31.2	.625	45.814	.183	1
CAL5	10000.		9948.2		-51.8	-.518	90.590	1.55	1



Date of Fit: 3/30/2016 11:30:41 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000424 Re-Slope: 1.000000
 A1 (Gain): 0.000991 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999922 Status: OK.
 Std Error of Est: 0.000404
 Predicted MDL: 0.195158
 Predicted MQL: 0.650525

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00167		-.002	.000	.00042	.000	1
CAL2	20.000		20.830		.830	4.15	.02107	.000	1
CAL3	2000.0		2089.1		89.1	4.46	2.0703	.004	1
CAL4	10000.		10039.		38.6	.386	9.9464	.020	1
CAL5	20000.		19871.		-129.	-.643	19.689	.072	1

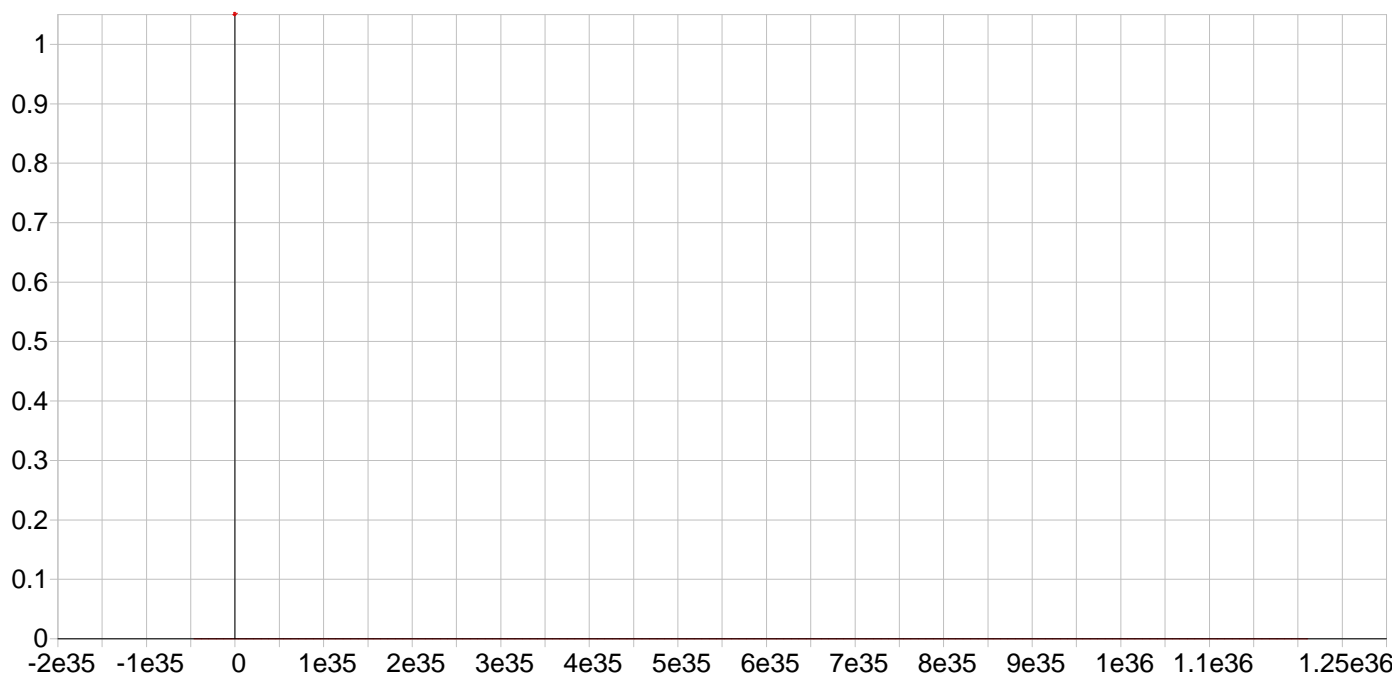


Y 224.306 {450}*

Date of Fit: 3/30/2016 11:04:42 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000
A2 (Curvature):	0.000000		
n (Exponent):	1.000000		
Correlation:	0.000000	Status:	Warning Zero Gain
Std Error of Est:	183.492520		
Predicted MDL:	n/a		
Predicted MQL:	n/a		

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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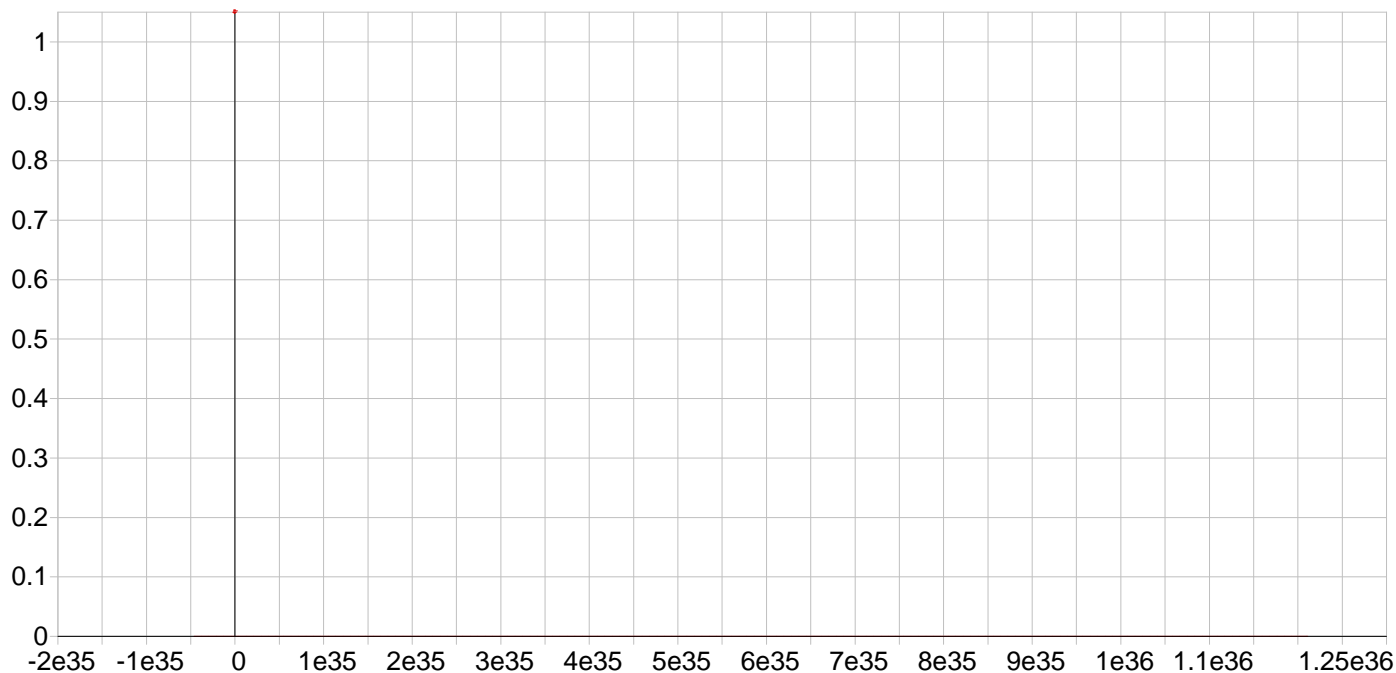


Y 360.073 { 94}*

Date of Fit: 3/30/2016 11:04:42 Type of Fit: Linear Weighting: 1/Conc

Page 214 of 653

A0 (Offset):	0.000000	Re-Slope:	1.000000
A1 (Gain):	0.000000	Y-int:	0.000000

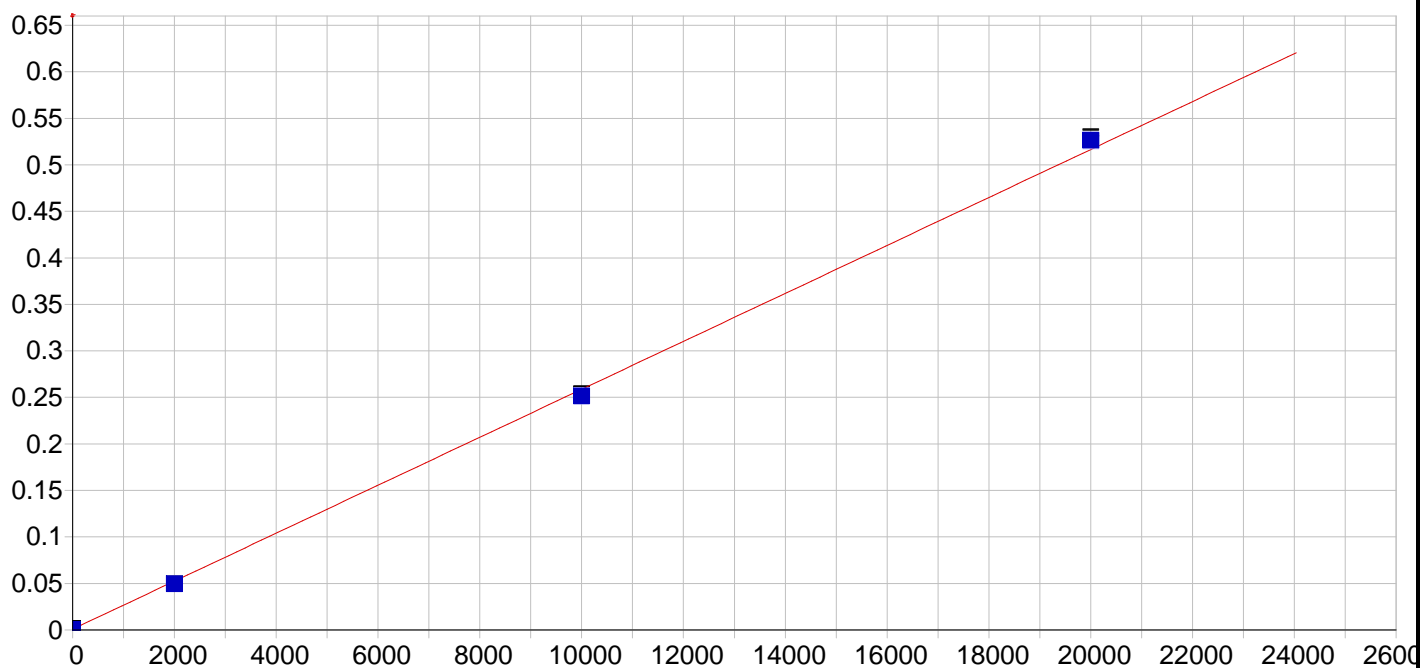


Y 371.030 { 91}*

Date of Fit: 3/30/2016 11:04:42 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000000 Re-Slope: 1.000000
 A1 (Gain): 0.000000 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.000000 Status: Warning Zero Gain
 Std Error of Est: 192.759705
 Predicted MDL: n/a
 Predicted MQL: n/a

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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Si 288.158 {117}

Date of Fit: 3/30/2016 11:30:41 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000918 Re-Slope: 1.000000

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.12864		.129	.000	.00092	.000	1
CAL5	20000.		20384.		384.	1.92	.52561	.003	1
CAL3	2000.0		1887.3		-113.	-5.64	.04949	.000	1
CAL4	10000.		9728.3		-272.	-2.72	.25130	.002	1

Sample Name: ICIS Cal Blk Acquired: 3/30/2016 11:06:00 Type: Cal
Method: sw03182016(v16) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0006	-.0005	-.0004	-.0000	.0004	-.0011
Stddev	.0004	.0002	.0001	.0002	.0003	.0001
%RSD	64.18	40.88	27.22	388.3	63.87	7.854

#1	-.0008	-.0006	-.0003	.0001	.0004	-.0012
#2	-.0008	-.0006	-.0005	.0000	.0007	-.0010
#3	-.0002	-.0002	-.0003	-.0003	.0001	-.0010

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	-.0026	-.0006	.0000	.0094	.0002	-.0059
Stddev	.0003	.0002	.0001	.0001	.0001	.0039
%RSD	12.75	31.56	208.3	.8407	27.20	65.74

#1	-.0022	-.0004	.0000	.0093	.0002	-.0104
#2	-.0028	-.0007	.0002	.0094	.0001	-.0035
#3	-.0028	-.0007	-.0000	.0094	.0002	-.0038

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0000	.0003	.0065	-.0005	.0003	.0005
Stddev	.0000	.0001	.0009	.0002	.0002	.0001
%RSD	127.5	41.19	13.51	37.68	54.67	25.10

#1	.0000	.0004	.0074	-.0003	.0003	.0006
#2	-.0000	.0002	.0056	-.0004	.0002	.0005
#3	.0000	.0002	.0066	-.0007	.0005	.0004

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0005	-.0011	.0000	.0002	.0018	.0003
Stddev	.0002	.0001	.0001	.0000	.0001	.0002
%RSD	47.25	13.99	429.4	22.55	5.455	73.97

#1	.0005	-.0011	.0001	.0002	.0017	.0004
#2	.0003	-.0009	-.0001	.0002	.0018	.0003
#3	.0007	-.0012	.0001	.0002	.0018	.0000

Sample Name: ICIS Cal Blk Acquired: 3/30/2016 11:06:00 Type: Cal
Method: sw03182016(v16) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0006	-.0024	.0004	.0009
Stddev	.0000	.0003	.0001	.0004
%RSD	6.772	12.50	23.62	38.41

#1	.0006	-.0023	.0005	.0009
#2	.0005	-.0022	.0004	.0006
#3	.0005	-.0028	.0004	.0013

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2909.4	29954.	4680.3
Stddev	15.0	242.	54.2
%RSD	.51632	.80706	1.1585

#1	2915.4	29808.	4620.9
#2	2920.6	30233.	4727.1
#3	2892.3	29822.	4693.0

Sample Name: 460-110769-C-1-C@4 Acquired: 3/30/2016 12:42:22 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	73820.	50.02	1.995	319.3	5.313	7507.
Stddev	586.	.21	.451	2.8	.160	76.
%RSD	.7941	.4212	22.63	.8625	3.010	1.012
#1	73170.	50.17	1.850	316.2	5.260	7421.
#2	74020.	50.10	1.634	320.1	5.187	7538.
#3	74290.	49.78	2.501	321.5	5.493	7563.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1366	63.23	236.7	118.3	138900.	10580.
Stddev	.0398	.52	1.8	1.0	1202.	65.
%RSD	29.17	.8218	.7563	.8783	.8656	.6172
#1	.0921	62.63	234.6	117.2	137700.	10500.
#2	.1689	63.46	237.5	119.2	138900.	10590.
#3	.1487	63.60	237.8	118.6	140100.	10630.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23220.	4884.	845.7	117.2	217.0	-.9404
Stddev	203.	38.	6.8	1.4	3.4	1.563
%RSD	.8743	.7818	.7994	1.182	1.551	166.2
#1	23010.	4842.	840.5	115.6	213.3	-.6124
#2	23240.	4892.	843.3	117.7	217.8	.4324
#3	23410.	4917.	853.4	118.2	219.9	-2.641

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-110769-C-1-C@4 Acquired: 3/30/2016 12:42:22 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.190	-3.346	214.6	782.8	44.39	2.906
Stddev	3.959	.394	2.2	4.7	.63	.164
%RSD	76.29	11.78	1.044	.6053	1.427	5.658
#1	9.625	-2.942	212.0	777.5	43.68	2.916
#2	2.011	-3.367	215.9	786.6	44.60	3.065
#3	3.935	-3.730	215.8	784.5	44.89	2.737

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	15.99	87.90	2542.	1712.
Stddev	.20	.82	24.	24.
%RSD	1.222	.9351	.9353	1.427
#1	16.02	87.06	2519.	1684.
#2	16.17	87.92	2543.	1731.
#3	15.78	88.70	2566.	1720.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3018.8	31423.	5140.6
Stddev	14.9	43.	52.9
%RSD	.49331	.13818	1.0282
#1	3012.3	31409.	5137.1
#2	3008.1	31389.	5089.6
#3	3035.8	31472.	5195.1

Sample Name: 460-110769-C-14-C@4 Acquired: 3/30/2016 12:50:33 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	59770.	176.1	1.643	382.7	4.417	5474.
Stddev	207.	3.3	.313	1.5	.125	12.
%RSD	.3457	1.874	19.05	.3797	2.826	.2130

#1	59560.	173.8	1.411	381.5	4.455	5463.
#2	59970.	174.6	1.520	382.3	4.518	5473.
#3	59760.	179.9	1.999	384.3	4.278	5487.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9275	56.84	294.0	183.9	124500.	8111.
Stddev	.1966	.09	.9	.3	210.	18.
%RSD	21.19	.1660	.3175	.1747	.1690	.2247

#1	1.115	56.85	295.1	184.3	124300.	8090.
#2	.7227	56.92	293.6	183.7	124500.	8123.
#3	.9450	56.74	293.4	183.7	124700.	8121.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17080.	2068.	2762.	105.4	437.4	1.676
Stddev	54.	13.	13.	.2	2.3	.613
%RSD	.3145	.6047	.4571	.1737	.5251	36.55

#1	17070.	2062.	2750.	105.7	434.7	1.731
#2	17040.	2059.	2760.	105.4	438.7	1.038
#3	17140.	2082.	2775.	105.3	438.7	2.259

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110769-C-14-C@4 Acquired: 3/30/2016 12:50:33 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.456	-2.830	163.5	1047.	33.20	2.648
Stddev	.427	.896	.7	2.	.66	.079
%RSD	12.37	31.66	.4397	.2302	1.998	2.983
#1	3.159	-1.827	164.0	1045.	32.43	2.730
#2	3.263	-3.551	163.8	1047.	33.51	2.642
#3	3.945	-3.113	162.7	1050.	33.64	2.572

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	28.95	75.63	2038.	1678.
Stddev	.65	.08	1.	9.
%RSD	2.260	.1076	.0320	.5110
#1	28.46	75.58	2038.	1684.
#2	28.69	75.72	2038.	1668.
#3	29.69	75.58	2039.	1682.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3017.8	31485.	5122.6
Stddev	8.2	48.	54.8
%RSD	.27321	.15150	1.0697
#1	3024.5	31461.	5177.2
#2	3020.3	31540.	5067.6
#3	3008.6	31454.	5123.0

Sample Name: CAL1 Acquired: 3/30/2016 11:10:12 Type: Cal
Method: sw03182016(v16) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	As1890	Pb2203	Sb2068	Se196	Tl1908
Line	189.042 {478}	220.353 {453}	206.833 {463}	196.090 {472}	190.856 {477}
IS Ref	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0000	.0017	.0021	.0009	.0003
Stddev	.0001	.0002	.0001	.0001	.0002
%RSD	253.2	12.72	2.344	12.38	80.49

#1	-.0001	.0015	.0021	.0008	.0005
#2	.0000	.0019	.0022	.0010	.0000
#3	.0002	.0018	.0022	.0008	.0003

Int. Std.	Y_2243
Line	224.306 {450}
Units	Cts/S
Avg	2907.6
Stddev	20.4
%RSD	.70123

#1	2902.1
#2	2890.6
#3	2930.2

Sample Name: 460-110769-C-34-B@4 Acquired: 3/30/2016 13:06:58 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	63290.	169.1	1.569	410.4	4.269	5826.
Stddev	203.	2.2	.291	.7	.021	24.
%RSD	.3200	1.308	18.56	.1622	.4924	.4159

#1	63170.	170.2	1.759	409.7	4.251	5813.
#2	63530.	170.5	1.234	411.0	4.265	5811.
#3	63180.	166.6	1.714	410.5	4.293	5854.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3787	45.57	294.6	210.2	127600.	8517.
Stddev	.0564	.20	.7	.7	222.	4.
%RSD	14.88	.4481	.2386	.3141	.1738	.0510

#1	-.4323	45.59	293.9	210.1	127400.	8514.
#2	-.3199	45.36	294.5	210.9	127500.	8515.
#3	-.3840	45.76	295.3	209.6	127800.	8522.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18370.	1882.	2692.	89.36	470.2	.4158
Stddev	36.	7.	4.	.84	2.2	2.171
%RSD	.1968	.3483	.1668	.9416	.4741	522.0

#1	18410.	1887.	2687.	88.40	468.4	2.658
#2	18330.	1875.	2695.	89.98	472.7	-1.676
#3	18380.	1884.	2694.	89.70	469.7	.2661

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110769-C-34-B@4 Acquired: 3/30/2016 13:06:58 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.083	-1.777	187.3	948.1	30.75	3.403
Stddev	2.398	.390	1.3	1.3	.20	.294
%RSD	58.74	21.93	.6826	.1392	.6416	8.632
#1	4.536	-2.227	186.5	947.2	30.90	3.731
#2	6.223	-1.558	186.5	947.5	30.52	3.165
#3	1.491	-1.546	188.7	949.6	30.81	3.314

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	26.22	85.93	2206.	1559.
Stddev	.68	.14	2.	17.
%RSD	2.593	.1635	.0833	1.062
#1	26.83	85.77	2204.	1541.
#2	26.34	86.02	2207.	1561.
#3	25.49	86.00	2207.	1574.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2966.7	30758.	5032.4
Stddev	9.3	117.	14.1
%RSD	.31316	.38023	.28044
#1	2961.8	30681.	5046.7
#2	2960.8	30892.	5032.1
#3	2977.4	30701.	5018.5

Sample Name: 460-110769-D-40-A@4 Acquired: 3/30/2016 13:15:18 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	71580.	64.05	2.228	290.4	5.279	7210.
Stddev	192.	1.39	.176	.4	.094	44.
%RSD	.2683	2.162	7.897	.1458	1.782	.6093
#1	71800.	65.11	2.031	290.7	5.381	7159.
#2	71480.	64.55	2.370	289.9	5.257	7234.
#3	71450.	62.48	2.283	290.6	5.197	7236.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1100	52.96	253.3	125.4	134000.	10370.
Stddev	.0510	.09	1.0	.2	182.	34.
%RSD	46.36	.1689	.3757	.1227	.1357	.3275
#1	.1004	52.89	253.8	125.5	134100.	10390.
#2	.1651	53.06	253.9	125.3	134100.	10330.
#3	.0644	52.93	252.2	125.3	133800.	10390.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21850.	2856.	2688.	109.3	277.9	1.433
Stddev	40.	11.	5.	.2	.8	1.263
%RSD	.1843	.3918	.1887	.2176	.2907	88.14
#1	21810.	2843.	2693.	109.5	277.1	2.234
#2	21890.	2864.	2689.	109.3	278.0	-.0231
#3	21840.	2862.	2683.	109.1	278.7	2.088

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110769-D-40-A@4 Acquired: 3/30/2016 13:15:18 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.804	-4.826	249.5	843.9	42.88	3.126
Stddev	1.142	1.558	.6	1.8	.71	.152
%RSD	23.76	32.28	.2324	.2188	1.665	4.870
#1	4.819	-6.289	249.5	843.0	42.74	3.008
#2	3.655	-4.999	250.0	842.6	43.65	3.298
#3	5.938	-3.188	248.9	846.0	42.24	3.072

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	17.59	83.38	2699.	1701.
Stddev	.36	.24	8.	19.
%RSD	2.067	.2853	.2915	1.103
#1	17.34	83.63	2708.	1720.
#2	17.42	83.16	2697.	1700.
#3	18.00	83.34	2693.	1682.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3051.3	31504.	5154.6
Stddev	11.0	160.	1.3
%RSD	.35933	.50707	.02501
#1	3038.8	31475.	5154.2
#2	3055.8	31361.	5156.0
#3	3059.3	31677.	5153.5

Sample Name: 460-110769-D-50-D@4 Acquired: 3/30/2016 13:32:01 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39450.	37.90	.3734	209.5	2.433	4189.
Stddev	105.	.70	.0325	.5	.088	28.
%RSD	.2665	1.845	8.703	.2533	3.614	.6767
#1	39330.	37.14	.3642	209.0	2.422	4165.
#2	39520.	38.07	.4095	209.5	2.351	4181.
#3	39510.	38.50	.3465	210.1	2.526	4220.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3006	30.69	148.5	82.24	74160.	6057.
Stddev	.1758	.11	.9	.16	326.	46.
%RSD	58.48	.3528	.5933	.1962	.4392	.7525
#1	-.1968	30.76	147.6	82.33	74160.	6012.
#2	-.2015	30.74	148.7	82.32	73840.	6103.
#3	-.5035	30.56	149.3	82.05	74490.	6056.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11910.	1578.	622.5	57.94	199.5	.7643
Stddev	55.	8.	3.2	.10	1.4	1.712
%RSD	.4603	.4827	.5218	.1732	.7074	224.0
#1	11860.	1571.	619.0	58.03	201.1	2.465
#2	11900.	1577.	625.4	57.97	199.2	-.9591
#3	11970.	1586.	623.1	57.83	198.3	.7873

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-110769-D-50-D@4 Acquired: 3/30/2016 13:32:01 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.908	-1.753	123.6	421.2	17.97	2.212
Stddev	4.215	2.160	.7	2.2	.82	.025
%RSD	144.9	123.2	.5876	.5225	4.585	1.112
#1	-1.744	-.3268	122.9	418.9	17.64	2.239
#2	6.473	-.6932	123.6	421.4	17.36	2.191
#3	3.996	-4.238	124.4	423.3	18.90	2.207

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	17.48	37.28	1686.	1429.
Stddev	.25	.22	4.	20.
%RSD	1.402	.5834	.2241	1.406
#1	17.20	37.04	1686.	1405.
#2	17.61	37.33	1682.	1441.
#3	17.64	37.47	1690.	1439.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2864.1	29629.	4802.7
Stddev	5.8	77.	10.3
%RSD	.20147	.25953	.21402
#1	2857.4	29624.	4802.3
#2	2867.4	29709.	4813.2
#3	2867.4	29555.	4792.6

Sample Name: 460-110769-D-67-C@4 Acquired: 3/30/2016 13:44:31 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38580.	36.57	-.5242	158.2	5.343	F 363700.
Stddev	213.	.84	.2642	.5	.052	1571.
%RSD	.5533	2.299	50.40	.3062	.9652	.4320
#1	38480.	37.20	-.2698	158.4	5.284	365200.
#2	38820.	36.88	-.5056	157.6	5.372	363800.
#3	38440.	35.61	-.7972	158.5	5.374	362000.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0478	29.67	157.3	9.819	110800.	35330.
Stddev	.0400	.11	.2	.428	254.	143.
%RSD	83.73	.3858	.1198	4.355	.2292	.4050
#1	-.0033	29.55	157.4	9.827	111100.	35370.
#2	-.0592	29.78	157.5	10.24	110800.	35450.
#3	-.0809	29.67	157.1	9.388	110600.	35170.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16770.	691.5	2913.	55.58	25.82	-2.426
Stddev	93.	3.0	14.	.60	.98	1.647
%RSD	.5571	.4368	.4880	1.084	3.786	67.88
#1	16860.	694.3	2908.	55.57	26.90	-3.354
#2	16760.	691.9	2929.	54.98	25.00	-.5247
#3	16670.	688.3	2903.	56.19	25.56	-3.399
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110769-D-67-C@4 Acquired: 3/30/2016 13:44:31 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.643	-4.173	81.35	184.0	338.0	13.36
Stddev	3.910	1.755	.22	1.0	2.0	.39
%RSD	147.9	42.07	.2709	.5215	.5929	2.946
#1	1.205	-3.148	81.57	183.0	336.1	13.52
#2	-.3435	-6.199	81.33	184.1	338.0	12.91
#3	7.069	-3.171	81.13	184.9	340.1	13.64

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.499	1723.	293.5	3085.
Stddev	.401	7.	.3	16.
%RSD	11.46	.4222	.1109	.5262
#1	3.870	1721.	293.9	3091.
#2	3.074	1731.	293.3	3067.
#3	3.554	1717.	293.3	3098.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2807.3	29432.	4928.6
Stddev	16.2	331.	95.7
%RSD	.57880	1.1243	1.9410
#1	2788.9	29216.	4854.9
#2	2813.5	29267.	4894.3
#3	2819.6	29813.	5036.7

Sample Name: 460-110769-E-73-A@4 Acquired: 3/30/2016 13:52:48 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12790.	7.887	-.0174	33.40	1.860	524.4
Stddev	33.	1.901	.4787	.13	.083	6.1
%RSD	.2557	24.10	2756.	.3911	4.444	1.167
#1	12760.	10.01	.3793	33.40	1.846	518.3
#2	12790.	7.322	.1177	33.26	1.949	524.4
#3	12820.	6.333	-.5491	33.52	1.786	530.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5970	18.32	69.26	23.54	44730.	1651.
Stddev	.0544	.38	.44	.11	100.	25.
%RSD	9.115	2.084	.6309	.4636	.2240	1.484
#1	-.6510	17.91	68.81	23.66	44630.	1627.
#2	-.5422	18.40	69.31	23.48	44830.	1676.
#3	-.5978	18.66	69.68	23.46	44720.	1650.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3136.	219.6	811.4	41.87	22.06	.2962
Stddev	11.	1.1	3.2	.55	1.04	1.966
%RSD	.3633	.5012	.3904	1.314	4.716	663.6
#1	3129.	218.7	809.4	41.46	22.81	1.160
#2	3129.	219.3	815.1	41.64	20.87	1.683
#3	3149.	220.9	809.7	42.49	22.50	-1.954

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110769-E-73-A@4 Acquired: 3/30/2016 13:52:48 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.055	-1.630	52.58	107.3	6.487	1.153
Stddev	.569	.173	.14	.3	.405	.054
%RSD	53.94	10.59	.2580	.3122	6.237	4.717
#1	1.343	-1.659	52.47	106.9	6.462	1.208
#2	1.423	-1.787	52.53	107.4	6.095	1.099
#3	.3995	-1.445	52.73	107.6	6.903	1.151

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.509	8.673	268.1	1243.
Stddev	.479	.152	.9	21.
%RSD	13.66	1.752	.3215	1.659
#1	3.504	8.546	267.2	1253.
#2	3.031	8.633	268.9	1219.
#3	3.990	8.842	268.3	1256.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2822.5	29668.	4697.0
Stddev	15.8	111.	56.8
%RSD	.56081	.37529	1.2093
#1	2804.3	29542.	4657.3
#2	2831.3	29753.	4671.7
#3	2832.0	29710.	4762.1

Sample Name: CAL2 Acquired: 3/30/2016 11:14:26 Type: Cal
Method: sw03182016(v16) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0078	.0009	.0028	.5502	.0080	.1480
Stddev	.0002	.0001	.0001	.0040	.0000	.0006
%RSD	2.700	6.053	3.994	.7231	.4541	.4059

#1	.0079	.0009	.0027	.5467	.0079	.1487
#2	.0078	.0009	.0029	.5495	.0080	.1477
#3	.0075	.0008	.0028	.5545	.0080	.1477

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0120	.0671	.0021	.0188	.0017	.3960
Stddev	.0003	.0004	.0001	.0006	.0000	.0014
%RSD	2.274	.5435	5.617	3.155	.3719	.3532

#1	.0122	.0667	.0020	.0195	.0017	.3963
#2	.0121	.0672	.0020	.0187	.0017	.3972
#3	.0117	.0674	.0022	.0183	.0017	.3945

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1195	.0220	1.368	.0343	.0032	.0034
Stddev	.0002	.0004	.002	.0002	.0002	.0002
%RSD	.1765	1.769	.1540	.4763	5.934	5.227

#1	.1194	.0224	1.369	.0342	.0032	.0036
#2	.1194	.0220	1.365	.0341	.0034	.0032
#3	.1198	.0217	1.368	.0344	.0030	.0035

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0018	.0020	.0119	.0308	.0257	.0201
Stddev	.0002	.0001	.0001	.0001	.0006	.0004
%RSD	10.87	3.686	.8039	.2795	2.377	2.010

#1	.0016	.0019	.0119	.0309	.0251	.0199
#2	.0020	.0020	.0118	.0307	.0256	.0199
#3	.0017	.0020	.0119	.0307	.0264	.0206

Sample Name: CAL2 Acquired: 3/30/2016 11:14:26 Type: Cal
Method: sw03182016(v16) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349
Line	189.989 {477}	407.771 { 83}	334.941 {101}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S
Avg	.0109	.1837	.0211
Stddev	.0000	.0016	.0004
%RSD	.1222	.8712	1.991

#1	.0109	.1850	.0206
#2	.0109	.1843	.0211
#3	.0109	.1819	.0215

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2873.3	29539.	4660.1
Stddev	26.6	41.	38.4
%RSD	.92456	.13959	.82494

#1	2900.0	29492.	4704.4
#2	2872.9	29556.	4640.7
#3	2846.9	29568.	4635.3

Sample Name: CCV Acquired: 3/30/2016 14:13:49 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126700.	2534.	1284.	10270.	994.3	129600.
Stddev	1012.	39.	15.	146.	4.5	1586.
%RSD	.7987	1.533	1.199	1.421	.4555	1.224

#1	127700.	2551.	1295.	10350.	998.8	130800.
#2	126700.	2561.	1291.	10350.	994.5	130100.
#3	125700.	2489.	1267.	10100.	989.7	127800.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1276.	2522.	5188.	12490.	106000.	49180.
Stddev	17.	35.	62.	140.	1369.	332.
%RSD	1.343	1.386	1.203	1.122	1.292	.6747

#1	1286.	2541.	5234.	12570.	107000.	49510.
#2	1286.	2544.	5212.	12570.	106500.	49170.
#3	1256.	2482.	5117.	12330.	104400.	48840.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	130000.	5205.	125800.	2567.	7779.	982.3
Stddev	1578.	58.	982.	38.	113.	13.3
%RSD	1.213	1.115	.7806	1.464	1.453	1.358

#1	131200.	5250.	126800.	2589.	7850.	984.5
#2	130700.	5225.	125900.	2588.	7838.	994.4
#3	128200.	5139.	124800.	2523.	7648.	968.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/30/2016 14:13:49 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2547.	2540.	2497.	2535.	1016.	2524.
Stddev	36.	20.	27.	29.	15.	34.
%RSD	1.423	.7982	1.097	1.154	1.489	1.344
#1	2564.	2550.	2518.	2556.	1023.	2542.
#2	2571.	2554.	2506.	2547.	1026.	2544.
#3	2505.	2517.	2466.	2501.	998.7	2484.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1024.	5041.	10420.	9640.
Stddev	17.	28.	81.	100.
%RSD	1.641	.5561	.7787	1.037
#1	1034.	5071.	10470.	9643.
#2	1033.	5039.	10470.	9738.
#3	1005.	5015.	10330.	9538.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2641.2	27618.	4674.9
Stddev	26.3	244.	41.7
%RSD	.99579	.88428	.89265
#1	2622.3	27404.	4627.3
#2	2630.0	27566.	4692.2
#3	2671.2	27884.	4705.1

Sample Name: CAL3 Acquired: 3/30/2016 11:18:35 Type: Cal
Method: sw03182016(v16) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.9846	.0436	.0808	5.580	.8346	.7506
Stddev	.0036	.0001	.0003	.003	.0009	.0019
%RSD	.3633	.2990	.4195	.0441	.1075	.2541

#1	.9845	.0435	.0809	5.581	.8351	.7521
#2	.9883	.0437	.0810	5.581	.8352	.7513
#3	.9811	.0436	.0804	5.577	.8336	.7485

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.9343	.6854	.2086	1.003	.1924	.8209
Stddev	.0026	.0018	.0006	.002	.0007	.0033
%RSD	.2754	.2696	.3015	.2369	.3731	.3979

#1	.9320	.6840	.2091	1.005	.1932	.8171
#2	.9371	.6875	.2088	1.000	.1924	.8224
#3	.9339	.6848	.2079	1.004	.1917	.8231

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.6062	1.425	7.020	.4424	.4074	.0352
Stddev	.0010	.004	.034	.0008	.0006	.0001
%RSD	.1594	.3031	.4852	.1749	.1449	.2411

#1	.6070	1.425	7.023	.4415	.4076	.0352
#2	.6066	1.429	7.052	.4426	.4079	.0351
#3	.6052	1.421	6.984	.4430	.4068	.0352

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0363	.0709	.1212	.5163	.1097	.5190
Stddev	.0001	.0002	.0002	.0020	.0001	.0008
%RSD	.2540	.2661	.1941	.3878	.1256	.1495

#1	.0362	.0708	.1215	.5140	.1095	.5185
#2	.0363	.0708	.1211	.5179	.1098	.5199
#3	.0364	.0711	.1211	.5169	.1096	.5187

Sample Name: CAL3 Acquired: 3/30/2016 11:18:35 Type: Cal
Method: sw03182016(v16) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.0440	9.287	2.070	.0495
Stddev	.0001	.027	.004	.0001
%RSD	.1690	.2913	.2166	.2176

#1	.0441	9.276	2.075	.0494
#2	.0440	9.318	2.068	.0496
#3	.0441	9.268	2.067	.0495

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2786.6	29171.	4664.0
Stddev	5.6	110.	39.3
%RSD	.20107	.37751	.84168

#1	2793.0	29079.	4704.6
#2	2782.8	29142.	4626.3
#3	2784.0	29293.	4660.9

Sample Name: CAL4 Acquired: 3/30/2016 11:22:31 Type: Cal
Method: sw03182016(v16) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.847	.2214	.4024	26.85	4.050	3.688
Stddev	.012	.0012	.0006	.05	.021	.013
%RSD	.2431	.5563	.1607	.1948	.5135	.3539

#1	4.861	.2228	.4024	26.88	4.074	3.685
#2	4.839	.2205	.4017	26.79	4.036	3.676
#3	4.842	.2210	.4030	26.88	4.039	3.702

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	4.467	3.268	.9992	5.042	.9091	4.164
Stddev	.012	.005	.0031	.007	.0032	.012
%RSD	.2657	.1694	.3079	.1400	.3498	.2842

#1	4.477	3.273	1.000	5.048	.9086	4.177
#2	4.454	3.267	.9957	5.043	.9063	4.158
#3	4.471	3.262	1.001	5.034	.9126	4.156

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	3.009	6.824	34.96	2.091	1.923	.1738
Stddev	.007	.017	.09	.007	.006	.0005
%RSD	.2339	.2453	.2618	.3338	.2966	.2629

#1	3.009	6.815	35.03	2.095	1.925	.1741
#2	3.002	6.813	34.99	2.083	1.917	.1740
#3	3.016	6.843	34.86	2.095	1.928	.1733

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.1802	.3338	.5932	2.470	.5363	2.524
Stddev	.0014	.0009	.0027	.005	.0020	.006
%RSD	.7680	.2683	.4518	.1880	.3812	.2375

#1	.1815	.3347	.5942	2.473	.5372	2.529
#2	.1787	.3337	.5902	2.472	.5340	2.517
#3	.1802	.3329	.5953	2.465	.5378	2.525

Sample Name: CAL4 Acquired: 3/30/2016 11:22:31 Type: Cal
Method: sw03182016(v16) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.2118	45.81	9.946	.2513
Stddev	.0007	.18	.020	.0019
%RSD	.3156	.3995	.2046	.7510

#1	.2126	46.00	9.935	.2514
#2	.2113	45.81	9.934	.2531
#3	.2115	45.63	9.970	.2494

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2641.8	27994.	4614.8
Stddev	8.6	208.	50.6
%RSD	.32409	.74463	1.0958

#1	2651.0	28148.	4600.2
#2	2640.3	28077.	4671.0
#3	2634.0	27757.	4573.1

Sample Name: CAL5 Acquired: 3/30/2016 11:26:28 Type: Cal
Method: sw03182016(v16) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	9.811	.4616	.8299	53.46	7.982	7.369
Stddev	.015	.0008	.0031	.07	.011	.026
%RSD	.1574	.1753	.3694	.1332	.1319	.3475

#1	9.802	.4608	.8275	53.38	7.989	7.383
#2	9.802	.4623	.8288	53.50	7.970	7.383
#3	9.829	.4618	.8333	53.50	7.986	7.339

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	8.921	6.501	1.987	10.09	1.799	8.452
Stddev	.009	.011	.004	.07	.009	.010
%RSD	.0984	.1750	.1796	.7401	.5102	.1194

#1	8.917	6.505	1.983	10.07	1.790	8.457
#2	8.931	6.509	1.989	10.03	1.798	8.440
#3	8.914	6.488	1.990	10.17	1.808	8.459

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	6.079	13.33	71.07	4.161	3.836	.3590
Stddev	.005	.07	.45	.006	.008	.0002
%RSD	.0771	.5073	.6284	.1539	.2008	.0691

#1	6.074	13.26	70.64	4.154	3.829	.3591
#2	6.084	13.39	71.03	4.164	3.836	.3592
#3	6.079	13.35	71.53	4.165	3.844	.3587

Elem	Se196	Tl1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.3723	.6499	1.193	4.880	1.089	5.093
Stddev	.0011	.0026	.003	.015	.003	.007
%RSD	.2999	.3927	.2054	.2982	.2490	.1326

#1	.3714	.6490	1.190	4.885	1.087	5.087
#2	.3720	.6528	1.195	4.892	1.089	5.100
#3	.3735	.6479	1.194	4.864	1.092	5.090

Sample Name: CAL5 Acquired: 3/30/2016 11:26:28 Type: Cal
Method: sw03182016(v16) Mode: IR Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	.4216	90.59	19.69	.5256
Stddev	.0016	1.55	.07	.0034
%RSD	.3792	1.713	.3639	.6414

#1	.4208	91.29	19.63	.5268
#2	.4234	91.67	19.67	.5283
#3	.4205	88.81	19.77	.5218

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2475.4	26831.	4549.6
Stddev	5.1	198.	33.8
%RSD	.20648	.73872	.74198

#1	2480.7	26833.	4534.8
#2	2470.4	26632.	4588.2
#3	2475.2	27028.	4525.8

Sample Name: icv 4237636 Acquired: 3/30/2016 11:31:07 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126000.	2492.	1257.	10210.	1007.	126700.
Stddev	192.	7.	4.	22.	3.	477.
%RSD	.1524	.2929	.3031	.2130	.2983	.3764

#1	125800.	2500.	1259.	10190.	1005.	126200.
#2	126000.	2486.	1253.	10230.	1010.	126900.
#3	126200.	2490.	1260.	10200.	1005.	127100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1268.	2532.	5098.	12610.	102700.	49750.
Stddev	2.	5.	5.	35.	106.	112.
%RSD	.1679	.1796	.1027	.2750	.1026	.2249

#1	1266.	2527.	5102.	12650.	102700.	49620.
#2	1271.	2536.	5100.	12590.	102600.	49790.
#3	1268.	2532.	5092.	12600.	102900.	49830.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126600.	5130.	125400.	2548.	7667.	990.8
Stddev	84.	19.	105.	3.	19.	1.7
%RSD	.0667	.3709	.0834	.1362	.2431	.1666

#1	126500.	5110.	125300.	2545.	7648.	989.0
#2	126600.	5131.	125400.	2552.	7685.	992.3
#3	126700.	5148.	125500.	2546.	7668.	991.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: icv 4237636 Acquired: 3/30/2016 11:31:07 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2497.	2543.	2506.	2531.	1014.	2524.
Stddev	3.	11.	3.	12.	1.	3.
%RSD	.1028	.4224	.1133	.4621	.0687	.1369

#1	2499.	2547.	2505.	2521.	1014.	2520.
#2	2494.	2530.	2504.	2544.	1014.	2526.
#3	2496.	2550.	2509.	2530.	1015.	2525.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1015.	5045.	10230.	9835.
Stddev	2.	15.	45.	119.
%RSD	.2297	.3066	.4422	1.210

#1	1012.	5029.	10280.	9924.
#2	1016.	5045.	10200.	9881.
#3	1016.	5060.	10220.	9700.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2603.8	27729.	4605.2
Stddev	13.1	152.	47.3
%RSD	.50195	.54978	1.0271

#1	2616.8	27901.	4654.5
#2	2590.7	27675.	4601.0
#3	2604.1	27611.	4560.1

Sample Name: icb Acquired: 3/30/2016 11:35:07 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-7.963	1.306	.2718	.3897	.0344	3.453
Stddev	2.769	.991	.2987	.0662	.1171	3.477
%RSD	34.77	75.85	109.9	16.99	340.4	100.7
#1	-7.897	.2547	.6144	.4050	-.0130	5.732
#2	-10.76	2.222	.1349	.4469	.1678	-.5489
#3	-5.228	1.442	.0661	.3172	-.0515	5.175

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0181	-.0578	.1176	-1.402	2.515	28.25
Stddev	.0978	.1093	.5157	.622	12.78	10.25
%RSD	539.7	189.1	438.5	44.36	508.2	36.27
#1	.0906	-.1027	.1442	-1.608	-1.050	27.50
#2	-.0461	.0668	.6195	-1.893	-8.105	38.86
#3	-.0988	-.1375	-.4109	-.7028	16.70	18.41

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.181	.2957	18.97	-.0760	.1373	-.3064
Stddev	.844	.1834	2.70	.4273	1.479	.4922
%RSD	11.76	62.01	14.23	562.6	1077.	160.6
#1	7.438	.1737	22.05	.4049	-.8466	-.4821
#2	7.867	.2069	17.02	-.2205	-.5801	.2496
#3	6.238	.5066	17.85	-.4122	1.839	-.6867

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: icb Acquired: 3/30/2016 11:35:07 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.559	-1.332	-.1491	-.0488	2.127	1.003
Stddev	1.297	.447	.2367	.1739	.424	.502
%RSD	83.17	33.55	158.7	356.2	19.93	50.10
#1	2.199	-1.275	.0678	.1452	2.604	1.567
#2	.0669	-1.805	-.4016	-.1011	1.984	.8394
#3	2.412	-.9163	-.1137	-.1906	1.793	.6029

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2451	.1991	1.051	-1.136
Stddev	.5591	.0053	.253	10.45
%RSD	228.1	2.676	24.10	919.2
#1	.3739	.2044	1.068	-12.83
#2	.7287	.1938	.7898	2.147
#3	-.3671	.1990	1.296	7.273

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2833.4	29392.	4591.6
Stddev	18.6	189.	69.8
%RSD	.65470	.64398	1.5204
#1	2820.1	29460.	4671.0
#2	2825.6	29178.	4539.5
#3	2854.6	29537.	4564.4

Sample Name: CCB Acquired: 3/30/2016 15:12:05 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.358	.8630	.2076	.1937	.0095	42.26
Stddev	5.301	1.262	.8235	.0811	.0409	97.77
%RSD	157.9	146.3	396.7	41.88	429.6	231.3

#1	-7.183	-1.063	1.157	.2474	.0105	155.1
#2	-5.585	.4050	-.2247	.2333	.0500	-18.03
#3	2.693	2.290	-.3097	.1004	-.0319	-10.25

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0603	.0402	2.556	1.956	75.69	-13.48
Stddev	.0940	.1464	4.136	9.639	125.7	8.10
%RSD	156.0	363.8	161.8	492.8	166.1	60.07

#1	-.1521	-.0603	7.326	13.08	220.7	-6.912
#2	-.0645	-.0272	-.0276	-3.803	-1.926	-11.01
#3	.0358	.2082	.3686	-3.412	8.263	-22.53

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	66.06	2.893	-.0346	-.2057	-.1465	.0855
Stddev	99.32	4.521	2.465	.1712	1.763	.9045
%RSD	150.4	156.3	7129.	83.20	1203.	1057.

#1	180.7	8.110	2.808	-.0737	-2.141	-.9554
#2	8.151	.1238	-1.584	-.3991	.4946	.6802
#3	9.284	.4441	-1.327	-.1444	1.206	.5318

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/30/2016 15:12:05 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.555	-1.014	.9017	.1248	.5927	.6625
Stddev	1.884	1.329	1.795	.0617	.0370	.2404
%RSD	121.1	131.0	199.1	49.41	6.241	36.29
#1	1.380	.4492	2.956	.1054	.6349	.7524
#2	-.2342	-1.347	.1184	.0752	.5660	.8450
#3	3.521	-2.146	-.3689	.1939	.5771	.3901

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.7569	.1628	5.969	8.210
Stddev	.2867	.1043	8.975	17.57
%RSD	37.88	64.03	150.4	214.0
#1	-.7468	.1469	16.33	-8.633
#2	-.4754	.0674	.4798	6.835
#3	-1.049	.2741	1.102	26.43

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2793.0	29506.	4712.4
Stddev	6.6	222.	85.6
%RSD	.23599	.75385	1.8171
#1	2785.8	29252.	4629.5
#2	2798.8	29665.	4800.5
#3	2794.3	29600.	4707.3

Sample Name: 460-111152-A-9-A@4 Acquired: 3/30/2016 15:20:45 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	46670.	42.01	.7807	174.7	2.804	14350.
Stddev	139.	1.52	.3423	.2	.123	56.
%RSD	.2979	3.621	43.84	.1054	4.401	.3878

#1	46660.	43.55	.3872	174.6	2.688	14290.
#2	46810.	40.51	1.009	174.6	2.789	14390.
#3	46530.	41.98	.9457	174.9	2.934	14390.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4282	26.14	144.3	127.2	95550.	7837.
Stddev	.1970	.13	.8	.9	223.	26.
%RSD	46.01	.5006	.5865	.6719	.2335	.3266

#1	-.2924	26.01	144.8	127.4	95300.	7815.
#2	-.3380	26.27	143.3	126.2	95720.	7865.
#3	-.6542	26.12	144.8	127.9	95630.	7829.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16690.	1932.	6400.	72.07	1078.	-1.155
Stddev	56.	5.	16.	.23	1.	.172
%RSD	.3361	.2557	.2560	.3225	.1326	14.87

#1	16650.	1926.	6402.	72.16	1077.	-1.345
#2	16750.	1936.	6415.	71.80	1079.	-1.111
#3	16670.	1934.	6382.	72.24	1078.	-1.010

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111152-A-9-A@4 Acquired: 3/30/2016 15:20:45 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.617	-2.768	124.0	712.1	51.90	4.161
Stddev	1.953	.903	.6	2.2	.26	.028
%RSD	74.61	32.63	.5117	.3111	.5029	.6601
#1	.3667	-3.646	123.6	709.6	52.19	4.188
#2	3.864	-1.842	123.8	713.1	51.70	4.133
#3	3.621	-2.815	124.8	713.8	51.80	4.163

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	11.29	91.60	2259.	1092.
Stddev	.35	.09	2.	28.
%RSD	3.061	.0930	.0762	2.598
#1	11.38	91.52	2258.	1068.
#2	11.59	91.69	2261.	1084.
#3	10.91	91.60	2258.	1124.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2924.0	30381.	5063.2
Stddev	3.8	86.	10.1
%RSD	.12944	.28322	.20026
#1	2919.8	30281.	5069.8
#2	2925.0	30426.	5068.2
#3	2927.2	30434.	5051.5

Sample Name: 460-110953-J-20-A@4 Acquired: 3/30/2016 15:33:19 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	83920.	13.04	.3982	362.7	3.279	7047.
Stddev	305.	.52	.3046	.5	.065	25.
%RSD	.3633	4.008	76.49	.1259	1.993	.3571
#1	83580.	13.19	.3395	362.3	3.354	7052.
#2	84170.	12.45	.7279	362.6	3.247	7070.
#3	84020.	13.47	.1273	363.2	3.235	7020.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7921	28.83	85.17	65.15	83640.	3390.
Stddev	.0819	.23	.46	.91	204.	14.
%RSD	10.33	.8132	.5410	1.396	.2442	.4141
#1	-.8367	28.82	84.77	64.12	83660.	3374.
#2	-.8421	28.61	85.68	65.53	83830.	3401.
#3	-.6977	29.07	85.06	65.81	83430.	3394.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11400.	2289.	8846.	56.25	64.34	-.1851
Stddev	31.	7.	29.	.12	.74	1.419
%RSD	.2688	.2946	.3272	.2183	1.152	766.7
#1	11420.	2294.	8814.	56.29	64.14	-1.435
#2	11420.	2291.	8858.	56.11	63.71	-4.789
#3	11370.	2281.	8868.	56.34	65.16	1.358

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110953-J-20-A@4 Acquired: 3/30/2016 15:33:19 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.684	-1.174	121.6	157.8	13.83	1.871
Stddev	.667	.446	.3	1.2	.46	.169
%RSD	14.24	37.94	.2816	.7574	3.352	9.011
#1	5.008	-1.652	122.0	159.1	13.32	1.682
#2	5.127	-.7705	121.4	157.5	13.96	1.928
#3	3.917	-1.099	121.4	156.8	14.21	2.004

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.878	86.86	1332.	753.6
Stddev	.149	.30	5.	13.1
%RSD	1.896	.3466	.3542	1.735
#1	7.817	86.63	1327.	767.8
#2	7.768	87.20	1334.	742.1
#3	8.048	86.74	1336.	751.0

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3036.5	31091.	5179.4
Stddev	24.3	451.	23.2
%RSD	.79970	1.4495	.44728
#1	3008.6	30630.	5165.7
#2	3048.5	31111.	5166.4
#3	3052.4	31531.	5206.2

Sample Name: icvl 4079378 Acquired: 3/30/2016 11:39:22 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	232.1	15.09	10.36	215.1	2.067	5252.
Stddev	13.3	.84	.18	.4	.186	7.
%RSD	5.714	5.540	1.765	.1725	9.000	.1310

#1	243.3	14.14	10.29	215.2	2.241	5250.
#2	217.4	15.73	10.57	215.4	2.088	5259.
#3	235.4	15.39	10.22	214.7	1.871	5246.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.236	54.34	11.81	25.86	188.0	4957.
Stddev	.126	.34	1.50	3.90	46.0	22.
%RSD	2.980	.6266	12.69	15.07	24.47	.4454

#1	4.144	54.60	13.48	30.36	241.0	4960.
#2	4.184	54.47	11.35	23.65	159.0	4977.
#3	4.380	53.95	10.59	23.56	163.9	4933.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5173.	17.77	5059.	43.56	11.80	17.93
Stddev	16.	1.90	20.	.24	.80	1.92
%RSD	.3164	10.71	.3893	.5506	6.744	10.71

#1	5189.	19.96	5074.	43.76	12.24	19.91
#2	5175.	16.62	5037.	43.62	12.29	17.79
#3	5156.	16.72	5067.	43.29	10.88	16.08

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: icvl 4079378 Acquired: 3/30/2016 11:39:22 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.95	21.19	52.14	32.07	53.38	20.82
Stddev	2.01	.52	.76	.29	.54	.17
%RSD	9.592	2.453	1.460	.8952	1.007	.8236
#1	23.08	21.12	52.93	32.07	52.80	20.90
#2	20.69	21.74	51.41	31.79	53.85	20.93
#3	19.09	20.71	52.08	32.36	53.49	20.62

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	51.97	20.97	24.64	F 12.11
Stddev	1.15	.07	3.99	8.48
%RSD	2.209	.3155	16.19	70.02
#1	53.18	21.04	29.25	5.477
#2	50.90	20.92	22.26	9.192
#3	51.83	20.93	22.42	21.67

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2835.4	29463.	4702.8
Stddev	4.8	114.	58.5
%RSD	.16960	.38662	1.2430
#1	2830.0	29471.	4635.6
#2	2839.2	29345.	4730.9
#3	2837.0	29572.	4742.0

Sample Name: 460-110815-A-2-A@4 Acquired: 3/30/2016 15:54:15 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27850.	11.02	.0906	424.7	1.726	30740.
Stddev	284.	3.01	.4120	2.9	.117	340.
%RSD	1.021	27.34	454.5	.6905	6.776	1.105

#1	27520.	7.817	-.2281	421.5	1.592	30420.
#2	28000.	13.80	.5559	427.2	1.804	30690.
#3	28010.	11.44	-.0558	425.5	1.783	31100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7123	14.60	118.4	118.6	51090.	1332.
Stddev	.0464	.13	1.3	1.4	510.	41.
%RSD	6.517	.8591	1.097	1.173	.9978	3.086

#1	.7109	14.46	117.0	117.0	50580.	1295.
#2	.7594	14.63	118.5	119.4	51080.	1326.
#3	.6666	14.70	119.6	119.4	51600.	1376.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7927.	2844.	232.9	81.68	850.9	-.2108
Stddev	67.	30.	7.1	.74	4.7	1.458
%RSD	.8475	1.052	3.043	.9075	.5515	691.8

#1	7889.	2814.	225.5	80.91	845.6	-1.527
#2	7888.	2844.	239.7	82.39	854.5	1.357
#3	8005.	2874.	233.5	81.75	852.6	-.4618

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110815-A-2-A@4 Acquired: 3/30/2016 15:54:15 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.469	-7.278	54.33	741.5	6.216	1.849
Stddev	3.236	2.463	.72	7.9	.134	.105
%RSD	131.1	338.4	1.325	1.064	2.156	5.671
#1	1.366	1.788	53.54	732.5	6.342	1.822
#2	6.113	-3.135	54.49	744.7	6.230	1.760
#3	-.0710	-.8356	54.95	747.2	6.075	1.965

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	20.77	119.5	899.2	797.8
Stddev	.44	1.1	8.4	29.4
%RSD	2.119	.9314	.9320	3.681
#1	21.13	118.2	890.1	764.8
#2	20.28	119.9	901.0	821.1
#3	20.90	120.3	906.6	807.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2782.6	29110.	4712.0
Stddev	18.1	315.	53.7
%RSD	.65114	1.0805	1.1392
#1	2775.3	28783.	4653.5
#2	2769.4	29410.	4759.0
#3	2803.3	29136.	4723.6

Sample Name: CCV Acquired: 3/30/2016 16:02:44 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126100.	2496.	1284.	10250.	982.1	127900.
Stddev	544.	2.	2.	18.	1.8	601.
%RSD	.4314	.0765	.1927	.1723	.1875	.4699

#1	125600.	2496.	1283.	10240.	980.1	127200.
#2	126700.	2498.	1287.	10270.	983.7	128200.
#3	126000.	2494.	1282.	10250.	982.6	128200.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1261.	2504.	5168.	12460.	105300.	48580.
Stddev	3.	4.	15.	43.	163.	160.
%RSD	.2149	.1453	.2951	.3468	.1548	.3296

#1	1258.	2501.	5151.	12490.	105100.	48420.
#2	1263.	2508.	5174.	12490.	105300.	48740.
#3	1261.	2503.	5179.	12410.	105400.	48590.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	128600.	5130.	125000.	2558.	7757.	975.6
Stddev	342.	16.	484.	5.	18.	3.9
%RSD	.2659	.3190	.3873	.2126	.2293	.3994

#1	128400.	5112.	124500.	2552.	7740.	978.6
#2	129000.	5144.	125500.	2563.	7775.	977.0
#3	128500.	5133.	124900.	2559.	7756.	971.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/30/2016 16:02:44 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2501.	2511.	2481.	2488.	1013.	2520.
Stddev	6.	11.	6.	10.	4.	3.
%RSD	.2454	.4570	.2254	.4156	.3681	.1155

#1	2508.	2508.	2474.	2478.	1014.	2517.
#2	2500.	2500.	2485.	2487.	1016.	2523.
#3	2495.	2523.	2483.	2498.	1009.	2521.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1017.	4941.	10480.	9676.
Stddev	4.	10.	49.	48.
%RSD	.4168	.1979	.4679	.4909

#1	1013.	4934.	10430.	9623.
#2	1018.	4952.	10470.	9715.
#3	1022.	4937.	10530.	9690.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2552.9	26910.	4564.0
Stddev	10.5	94.	30.7
%RSD	.40959	.35033	.67316

#1	2564.9	26958.	4599.4
#2	2547.3	26802.	4547.6
#3	2546.3	26972.	4544.9

Sample Name: icsa 4079387 Acquired: 3/30/2016 11:43:36 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	496600.	.9438	-.1926	1.024	-.0391	504800.
Stddev	3852.	3.220	.2109	.216	.1447	3943.
%RSD	.7755	341.2	109.5	21.13	370.0	.7812

#1	501100.	-2.770	-.3627	1.203	.1251	507800.
#2	494600.	2.634	-.2584	1.086	-.0947	506200.
#3	494200.	2.967	.0434	.7838	-.1478	500300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6979	-3.138	-.6071	-5.514	196100.	-58.39
Stddev	.3350	.141	.5757	.151	847.	39.69
%RSD	48.00	4.496	94.82	2.736	.4320	67.98

#1	.3150	-3.008	-.4505	-5.403	196800.	-104.2
#2	.8414	-3.288	-.1260	-5.686	196400.	-33.94
#3	.9371	-3.118	-1.245	-5.453	195200.	-37.04

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	503900.	-4.597	-30.72	-4.968	2.336	.3066
Stddev	3511.	.068	12.01	.439	2.091	2.541
%RSD	.6969	1.481	39.09	8.834	89.54	828.7

#1	507700.	-4.651	-43.08	-4.981	2.517	-2.584
#2	503100.	-4.619	-29.97	-5.400	.1594	2.185
#3	500900.	-4.520	-19.10	-4.523	4.330	1.319

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: icsa 4079387 Acquired: 3/30/2016 11:43:36 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.746	-2.526	2.278	-2.797	-8.739	-1.064
Stddev	1.226	1.797	.601	.390	.663	.358
%RSD	44.64	71.13	26.40	13.96	7.584	33.67
#1	-2.913	-3.239	1.616	-2.801	-8.268	-.6937
#2	-1.445	-.4823	2.425	-2.405	-8.453	-1.409
#3	-3.879	-3.856	2.791	-3.185	-9.497	-1.088

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.680	-1.774	4.063	-5.102
Stddev	.722	.104	.070	18.31
%RSD	19.61	5.877	1.716	358.9
#1	4.465	-1.885	4.143	-20.94
#2	3.045	-1.759	4.013	-9.318
#3	3.532	-1.678	4.035	14.95

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2564.4	26141.	4580.1
Stddev	7.4	100.	58.2
%RSD	.28854	.38395	1.2700
#1	2558.5	26045.	4535.6
#2	2572.7	26132.	4558.7
#3	2562.0	26245.	4645.9

Sample Name: icsab 4140570 Acquired: 3/30/2016 11:48:04 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	554500.	104.5	116.7	109.9	106.1	553700.
Stddev	2390.	1.3	.2	.1	.7	4445.
%RSD	.4310	1.221	.1976	.1247	.6361	.8028

#1	553700.	104.9	116.7	109.7	105.6	558800.
#2	557200.	103.1	116.9	109.9	106.9	551800.
#3	552700.	105.5	116.4	110.0	105.9	550500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	103.1	99.80	109.6	108.8	217700.	11060.
Stddev	.2	.45	.6	.3	445.	15.
%RSD	.1560	.4551	.5236	.3159	.2046	.1327

#1	103.2	99.40	110.1	108.6	218100.	11060.
#2	103.1	100.3	109.0	108.7	217800.	11080.
#3	102.9	99.71	109.8	109.2	217200.	11050.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	563300.	106.7	11290.	96.88	105.3	106.6
Stddev	2585.	.3	46.	.30	1.7	3.5
%RSD	.4589	.2361	.4080	.3127	1.581	3.300

#1	566000.	107.0	11260.	97.07	107.0	104.6
#2	563100.	106.5	11340.	97.03	105.2	104.5
#3	560800.	106.5	11270.	96.53	103.7	110.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: icsab 4140570 Acquired: 3/30/2016 11:48:04 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	102.7	97.93	111.3	98.11	98.67	103.2
Stddev	3.2	1.48	.4	.29	.62	.4
%RSD	3.158	1.514	.3301	.3001	.6234	.4209
#1	101.2	99.44	111.0	98.07	97.96	103.3
#2	106.4	97.85	111.7	98.43	99.08	103.5
#3	100.5	96.48	111.3	97.84	98.95	102.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	106.3	107.1	116.2	64.06
Stddev	1.5	.3	.3	7.93
%RSD	1.398	.2651	.2424	12.37
#1	107.9	106.8	115.9	73.20
#2	106.0	107.2	116.2	59.89
#3	105.0	107.3	116.5	59.10

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2531.7	25833.	4518.4
Stddev	19.2	211.	72.1
%RSD	.76005	.81583	1.5948
#1	2509.7	25593.	4522.7
#2	2540.0	25989.	4444.3
#3	2545.4	25918.	4588.2

Sample Name: int-10a 4140672 Acquired: 3/30/2016 11:52:21 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.15	2.651	3.483	8.028	4.751	101.8
Stddev	7.05	2.200	.229	.048	.174	161.7
%RSD	36.79	83.01	6.580	.5940	3.656	158.8
#1	23.83	4.663	3.379	7.987	4.948	288.5
#2	22.58	.3013	3.324	8.080	4.686	5.656
#3	11.05	2.987	3.746	8.016	4.619	11.29

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4500	10150.	-.0882	-1.231	191.7	4.854
Stddev	.1232	26.	.1379	.808	79.1	15.31
%RSD	27.37	.2598	156.3	65.61	41.24	315.3
#1	-.5000	10180.	-.1940	-1.944	282.9	-2.946
#2	-.3097	10150.	.0678	-1.397	149.3	22.49
#3	-.5404	10130.	-.1383	-.3535	142.9	-4.981

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	103.9	-.1878	10.24	1.967	-2.481	-5.684
Stddev	160.7	.0272	1.23	.626	.387	1.451
%RSD	154.7	14.49	12.03	31.84	15.62	25.53
#1	289.5	-.1605	11.62	1.612	-2.146	-4.342
#2	8.883	-.1881	9.821	2.690	-2.905	-5.486
#3	13.31	-.2149	9.268	1.598	-2.391	-7.224

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: int-10a 4140672 Acquired: 3/30/2016 11:52:21 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.868	9.181	F 9655.	-.1537	-6.695	-3.143
Stddev	1.777	2.166	30.	.1303	.470	.098
%RSD	36.49	23.59	.3120	84.73	7.027	3.130
#1	-2.912	8.723	9687.	-2993	-6.174	-3.213
#2	-6.381	7.280	9651.	-1135	-6.823	-3.031
#3	-5.312	11.54	9628.	-.0483	-7.088	-3.185

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			6000.			
Low Limit			4000.			

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	9805.	9526.	-.7207	8524.
Stddev	47.	106.	.2135	54.
%RSD	.4819	1.112	29.63	.6362
#1	9855.	9641.	-.4917	8533.
#2	9800.	9504.	-.9144	8465.
#3	9761.	9433.	-.7559	8573.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2904.2	30009.	4808.0
Stddev	16.7	144.	11.6
%RSD	.57429	.48057	.24124
#1	2889.1	30041.	4802.5
#2	2922.1	30134.	4821.3
#3	2901.4	29851.	4800.1

Sample Name: int-10b 4140674 Acquired: 3/30/2016 11:56:44 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.800	14.81	.2115	-.0593	.9438	2.102
Stddev	5.677	2.34	.4225	.1256	.1174	2.772
%RSD	315.3	15.79	199.8	211.8	12.44	131.9
#1	3.881	15.58	.1517	.0041	.9399	5.060
#2	-7.474	16.67	-.1780	.0220	.8283	1.684
#3	-1.808	12.18	.6607	-.2040	1.063	-.4371

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8607	1.695	9471.	9191.	-42.06	11.27
Stddev	.1051	3.377	15.	31.	7.65	15.12
%RSD	12.21	199.2	.1594	.3383	18.20	134.2
#1	-.8509	5.564	9462.	9155.	-36.39	1.038
#2	-.7609	.1835	9462.	9203.	-50.77	28.63
#3	-.9704	-.6617	9488.	9214.	-39.03	4.129

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.86	9467.	31.70	10260.	-9.089	-4.713
Stddev	7.52	68.	5.35	40.	1.240	.216
%RSD	37.87	.7167	16.86	.3860	13.64	4.593
#1	27.99	9545.	34.10	10230.	-9.099	-4.950
#2	18.41	9425.	25.58	10240.	-7.844	-4.527
#3	13.16	9431.	35.43	10300.	-10.32	-4.660

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: int-10b 4140674 Acquired: 3/30/2016 11:56:44 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.673	6.170	-3.569	-4.533	F -100.0	4786.
Stddev	2.118	1.063	.173	.111	.2	13.
%RSD	45.33	17.22	4.861	2.439	.1773	.2691
#1	-6.975	5.208	-3.406	-4.616	-100.2	4775.
#2	-2.808	5.992	-3.752	-4.408	-99.90	4784.
#3	-4.235	7.311	-3.551	-4.576	-99.97	4800.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					100.0	
Low Limit					-100.0	

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.895	.6702	9312.	-29.65
Stddev	2.885	.4345	178.	16.58
%RSD	152.3	64.82	1.912	55.91
#1	5.017	1.167	9217.	-13.74
#2	-.6737	.4849	9201.	-28.39
#3	1.341	.3592	9517.	-46.82
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2717.3	29774.	4651.8
Stddev	3.4	142.	38.4
%RSD	.12343	.47752	.82522
#1	2719.1	29610.	4608.8
#2	2719.4	29856.	4664.1
#3	2713.4	29856.	4682.6

Sample Name: MB 460-359087/1-A@2 Acquired: 3/30/2016 12:01:14 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-7.107	.2771	.0838	-.1528	-.0325	-1.324
Stddev	6.759	.3125	.4787	.1150	.0747	4.523
%RSD	95.11	112.7	570.9	75.28	230.2	341.7

#1	-1.012	.3128	-.2087	-.0356	.0319	3.080
#2	-14.38	.5702	-.1760	-.2655	-.0149	-1.094
#3	-5.932	-.0516	.6362	-.1573	-.1144	-5.958

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0061	-.0369	.1450	-3.616	5.668	7.912
Stddev	.1032	.0453	.2584	.069	7.416	12.90
%RSD	1678.	122.6	178.2	1.903	130.8	163.0

#1	.1163	-.0111	.3769	-3.634	-2.426	22.21
#2	-.0883	-.0104	.1917	-3.675	7.292	-2.846
#3	-.0096	-.0892	-.1336	-3.540	12.14	4.370

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.326	.2913	-7.816	-.0022	-.0191	.2268
Stddev	2.554	.0541	2.993	.1013	1.103	.6911
%RSD	192.7	18.57	38.30	4573.	5771.	304.7

#1	1.151	.3180	-8.757	-.0746	1.078	.4589
#2	3.963	.3268	-10.23	.1135	-.0071	.7719
#3	-1.137	.2290	-4.466	-.0455	-1.128	-.5505

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-359087/1-A@2 Acquired: 3/30/2016 12:01:14 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.369	-1.952	-.1131	.4844	.3639	2.042
Stddev	1.315	.333	.2099	.2714	.1749	1.016
%RSD	96.08	17.04	185.6	56.03	48.07	49.77
#1	2.727	-1.860	-.3419	.2805	.1699	3.175
#2	.1004	-1.675	.0706	.7925	.4123	1.744
#3	1.280	-2.321	-.0680	.3802	.5095	1.208

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0231	.0661	.4115	-1.563
Stddev	.8308	.0403	.1114	32.21
%RSD	3602.	60.95	27.06	2062.
#1	.6256	.0215	.4057	19.40
#2	-.9595	.0998	.5257	14.56
#3	.2647	.0770	.3032	-38.66

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2796.6	29746.	4653.2
Stddev	7.4	107.	13.8
%RSD	.26287	.35897	.29636
#1	2798.6	29848.	4643.6
#2	2802.7	29754.	4647.0
#3	2788.4	29635.	4669.0

Sample Name: LCSSRM 460-359087/2- Acquired: 3/30/2016 12:05:32 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34550.	441.0	184.2	1523.	308.4	30690.
Stddev	82.	5.9	.4	8.	3.0	173.
%RSD	.2373	1.328	.2341	.5360	.9579	.5619

#1	34450.	435.2	184.2	1516.	305.0	30520.
#2	34600.	441.0	183.8	1520.	309.9	30690.
#3	34580.	446.9	184.7	1532.	310.2	30870.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	679.6	780.2	873.0	498.7	69590.	11060.
Stddev	4.4	4.5	6.1	2.8	335.	66.
%RSD	.6529	.5721	.7017	.5671	.4810	.5925

#1	675.1	775.5	868.0	496.0	69250.	11000.
#2	679.6	780.6	871.1	498.6	69600.	11050.
#3	684.0	784.4	879.8	501.6	69920.	11130.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11620.	1971.	11050.	730.6	642.6	365.7
Stddev	52.	10.	36.	3.2	3.2	3.9
%RSD	.4441	.5080	.3265	.4402	.4998	1.066

#1	11590.	1960.	11010.	728.1	639.3	361.3
#2	11600.	1974.	11050.	729.5	642.9	368.4
#3	11680.	1979.	11080.	734.2	645.7	367.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCSSRM 460-359087/2- Acquired: 3/30/2016 12:05:32 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	693.2	884.3	451.3	909.3	657.0	780.8
Stddev	9.3	2.6	3.1	5.6	5.7	3.5
%RSD	1.336	.2906	.6934	.6141	.8663	.4523
#1	684.9	881.7	448.1	903.5	652.5	777.5
#2	691.6	886.8	451.5	909.5	655.1	780.2
#3	703.2	884.5	454.4	914.7	663.4	784.5

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	484.7	394.3	1850.	2015.
Stddev	1.7	2.2	7.	8.
%RSD	.3564	.5611	.3779	.4051
#1	482.7	391.9	1844.	2024.
#2	485.9	394.7	1850.	2007.
#3	485.4	396.2	1858.	2015.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2895.1	30508.	4870.7
Stddev	35.3	325.	56.6
%RSD	1.2178	1.0657	1.1614
#1	2857.1	30150.	4848.9
#2	2901.3	30590.	4828.2
#3	2926.8	30785.	4934.9

Sample Name: 460-110769-E-12-B DU Acquired: 3/30/2016 12:09:30 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	70350.	54.95	2.020	300.4	4.949	7780.
Stddev	102.	1.42	.538	.6	.039	29.
%RSD	.1451	2.580	26.63	.2010	.7933	.3715
#1	70400.	55.08	2.168	299.9	4.952	7766.
#2	70430.	56.29	2.469	300.3	4.986	7761.
#3	70240.	53.47	1.424	301.1	4.908	7814.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0973	51.41	233.2	123.7	134500.	10550.
Stddev	.1296	.16	.1	.7	646.	52.
%RSD	133.1	.3205	.0289	.5477	.4805	.4911
#1	.2470	51.44	233.2	124.2	133900.	10540.
#2	.0204	51.23	233.1	122.9	134400.	10600.
#3	.0247	51.56	233.3	124.0	135200.	10500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22280.	3164.	705.4	109.1	218.1	-.3418
Stddev	123.	15.	.5	.3	1.4	1.756
%RSD	.5523	.4839	.0669	.2841	.6293	513.7
#1	22170.	3147.	705.5	108.8	218.2	-.9139
#2	22250.	3165.	705.8	108.9	219.4	1.629
#3	22410.	3178.	704.9	109.4	216.7	-1.740

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110769-E-12-B DU Acquired: 3/30/2016 12:09:30 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.334	-4.119	214.6	725.9	40.19	3.357
Stddev	1.963	1.057	.6	2.9	.60	.179
%RSD	58.87	25.65	.2625	.3972	1.493	5.329
#1	4.759	-5.274	214.9	728.6	40.75	3.447
#2	1.095	-3.882	214.0	726.3	39.56	3.151
#3	4.147	-3.201	215.0	722.9	40.27	3.474

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	15.85	85.45	2464.	1736.
Stddev	.58	.11	7.	28.
%RSD	3.654	.1313	.2750	1.601
#1	16.01	85.41	2457.	1722.
#2	15.21	85.58	2465.	1767.
#3	16.34	85.36	2471.	1717.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3074.5	31699.	5228.8
Stddev	8.7	172.	21.2
%RSD	.28369	.54222	.40607
#1	3079.4	31852.	5231.6
#2	3064.4	31732.	5206.3
#3	3079.7	31513.	5248.4

Sample Name: 460-110769-E-12-A@4 Acquired: 3/30/2016 12:13:36 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	70800.	54.40	2.241	300.9	4.877	7819.
Stddev	55.	.60	.511	.2	.087	28.
%RSD	.0771	1.098	22.81	.0622	1.785	.3522
#1	70830.	53.86	2.329	300.9	4.784	7829.
#2	70830.	55.04	1.691	300.8	4.893	7840.
#3	70740.	54.30	2.702	301.1	4.956	7788.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1688	51.20	235.1	123.3	135500.	10550.
Stddev	.1960	.40	.4	.4	499.	29.
%RSD	116.1	.7749	.1806	.3597	.3682	.2752
#1	-.3784	50.76	234.7	122.8	136000.	10550.
#2	-.1380	51.31	235.1	123.5	135600.	10580.
#3	.0100	51.53	235.6	123.6	135000.	10530.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22360.	3162.	711.6	110.1	219.1	.5700
Stddev	101.	12.	11.5	.3	1.0	.5612
%RSD	.4536	.3883	1.619	.2586	.4626	98.46
#1	22460.	3174.	720.3	109.9	219.6	1.085
#2	22360.	3162.	698.5	110.4	218.0	.6535
#3	22260.	3149.	715.9	109.9	219.8	-.0283

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110769-E-12-A@4 Acquired: 3/30/2016 12:13:36 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.744	-4.947	215.7	727.6	39.97	3.055
Stddev	.309	.944	.7	.2	.27	.169
%RSD	8.240	19.07	.3179	.0275	.6753	5.514
#1	3.413	-5.482	216.0	727.4	40.28	2.910
#2	3.796	-5.502	216.2	727.8	39.77	3.240
#3	4.023	-3.858	214.9	727.7	39.87	3.016

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	16.01	85.16	2477.	1699.
Stddev	.55	.37	5.	19.
%RSD	3.407	.4338	.2131	1.128
#1	16.51	85.17	2483.	1679.
#2	15.43	85.53	2475.	1717.
#3	16.09	84.79	2473.	1701.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3040.4	31268.	5072.2
Stddev	14.0	362.	61.8
%RSD	.46152	1.1562	1.2180
#1	3025.6	30933.	5044.3
#2	3042.2	31219.	5029.3
#3	3053.5	31651.	5143.0

Sample Name: sd 460-110769-E-12-A Acquired: 3/30/2016 12:17:42 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14750.	11.92	.7222	62.77	1.004	1620.
Stddev	46.	1.29	.2597	.17	.109	3.
%RSD	.3140	10.79	35.96	.2668	10.89	.1788

#1	14730.	10.44	.9996	62.73	1.053	1621.
#2	14800.	12.78	.6821	62.96	1.081	1623.
#3	14710.	12.55	.4848	62.63	.8792	1617.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0662	10.86	49.06	22.99	28450.	2187.
Stddev	.0553	.26	.11	.59	85.	16.
%RSD	83.58	2.354	.2296	2.562	.2985	.7209

#1	-.1296	11.10	49.17	23.67	28370.	2184.
#2	-.0410	10.89	48.94	22.59	28540.	2204.
#3	-.0279	10.59	49.07	22.72	28430.	2173.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4730.	658.5	141.5	23.39	46.59	-.7956
Stddev	7.	2.9	3.7	.79	1.55	.6925
%RSD	.1422	.4441	2.603	3.383	3.331	87.04

#1	4723.	661.4	144.0	22.56	44.81	-.8203
#2	4734.	658.6	137.2	23.47	47.26	-1.475
#3	4734.	655.5	143.1	24.14	47.69	-.0910

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-110769-E-12-A Acquired: 3/30/2016 12:17:42 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.9952	-1.558	44.17	153.1	8.553	.4572
Stddev	2.039	.500	.23	.2	.121	.2066
%RSD	204.9	32.12	.5154	.1043	1.412	45.19
#1	-3.349	-1.455	43.91	153.0	8.415	.6674
#2	.2462	-1.116	44.27	153.3	8.642	.2543
#3	.1169	-2.101	44.33	153.0	8.602	.4500

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.068	17.46	503.4	358.8
Stddev	.412	.08	.7	18.2
%RSD	13.44	.4761	.1357	5.085
#1	3.197	17.45	502.6	373.2
#2	3.401	17.39	503.9	338.3
#3	2.607	17.55	503.7	364.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2906.6	30166.	4786.3
Stddev	7.7	127.	17.9
%RSD	.26344	.42228	.37439
#1	2897.9	30068.	4794.5
#2	2912.3	30119.	4765.8
#3	2909.6	30310.	4798.7

Sample Name: 460-110769-E-12-C MS Acquired: 3/30/2016 12:21:51 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	84630.	902.0	24.34	1231.	28.32	17010.
Stddev	228.	1.5	.29	2.	.11	68.
%RSD	.2689	.1652	1.207	.1670	.3991	.3969

#1	84890.	902.7	24.52	1231.	28.42	16980.
#2	84580.	903.0	24.51	1232.	28.34	17090.
#3	84440.	900.3	24.00	1228.	28.20	16970.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22.67	282.2	348.3	241.3	140000.	19690.
Stddev	.06	.3	2.1	.8	837.	96.
%RSD	.2533	.1047	.6019	.3485	.5979	.4865

#1	22.72	282.5	347.0	240.5	139800.	19800.
#2	22.61	282.3	350.7	242.2	140900.	19610.
#3	22.69	281.9	347.2	241.3	139300.	19660.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32420.	3398.	9530.	348.2	453.1	118.8
Stddev	147.	12.	38.	2.1	1.4	1.1
%RSD	.4548	.3454	.3991	.6029	.3109	.9051

#1	32320.	3384.	9573.	348.0	452.0	118.3
#2	32590.	3407.	9515.	350.4	454.6	120.0
#3	32340.	3402.	9501.	346.2	452.6	118.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110769-E-12-C MS Acquired: 3/30/2016 12:21:51 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	863.7	919.2	461.6	983.9	258.7	219.3
Stddev	5.5	6.7	2.6	.6	1.5	.9
%RSD	.6311	.7261	.5694	.0585	.5949	.4314
#1	857.4	913.9	461.1	983.4	259.6	219.3
#2	867.3	917.0	464.4	983.7	259.6	220.3
#3	866.4	926.7	459.2	984.5	256.9	218.4

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	232.9	316.5	2993.	2187.
Stddev	.2	1.0	14.	31.
%RSD	.1073	.3031	.4795	1.404
#1	233.1	317.6	2997.	2160.
#2	232.8	315.8	3005.	2221.
#3	232.6	316.3	2977.	2181.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3052.9	31706.	5221.9
Stddev	22.8	276.	64.0
%RSD	.74801	.87196	1.2250
#1	3036.6	31588.	5160.1
#2	3043.2	31507.	5218.0
#3	3079.0	32021.	5287.8

Sample Name: CCV Acquired: 3/30/2016 12:25:51 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126600.	2493.	1262.	10220.	1009.	126800.
Stddev	810.	16.	8.	21.	2.	714.
%RSD	.6395	.6341	.6573	.2049	.1966	.5635

#1	126200.	2477.	1254.	10200.	1010.	126000.
#2	126100.	2493.	1263.	10230.	1007.	126900.
#3	127500.	2508.	1270.	10240.	1011.	127400.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1265.	2526.	5107.	12640.	103100.	49950.
Stddev	2.	2.	26.	44.	615.	156.
%RSD	.1316	.0850	.5157	.3514	.5970	.3128

#1	1264.	2524.	5077.	12590.	102400.	49900.
#2	1265.	2527.	5117.	12640.	103200.	49820.
#3	1267.	2528.	5126.	12680.	103600.	50120.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	126700.	5116.	126100.	2550.	7678.	988.0
Stddev	656.	30.	715.	6.	14.	3.4
%RSD	.5177	.5917	.5665	.2304	.1781	.3395

#1	126100.	5090.	125800.	2543.	7663.	985.4
#2	126700.	5110.	125700.	2552.	7683.	991.8
#3	127400.	5149.	127000.	2554.	7689.	986.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/30/2016 12:25:51 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2497.	2548.	2507.	2520.	1011.	2527.
Stddev	13.	15.	10.	7.	5.	7.
%RSD	.5372	.5747	.4053	.2751	.5005	.2604
#1	2483.	2534.	2496.	2528.	1006.	2520.
#2	2500.	2547.	2507.	2517.	1015.	2528.
#3	2509.	2564.	2517.	2514.	1013.	2533.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1014.	5045.	10340.	9772.
Stddev	2.	23.	116.	25.
%RSD	.2463	.4540	1.123	.2561
#1	1011.	5049.	10230.	9801.
#2	1015.	5020.	10460.	9758.
#3	1016.	5065.	10340.	9757.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2594.1	27618.	4535.1
Stddev	3.8	280.	26.8
%RSD	.14507	1.0125	.59193
#1	2597.9	27939.	4551.4
#2	2594.0	27489.	4549.7
#3	2590.4	27427.	4504.1

Sample Name: CCB Acquired: 3/30/2016 12:29:53 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.554	.7100	-.3229	1.595	.0729	-.7488
Stddev	12.33	.6274	.1217	2.543	.0337	4.344
%RSD	482.7	88.36	37.69	159.4	46.16	580.1
#1	-.9911	1.244	-.2843	4.531	.0551	4.267
#2	8.918	.8676	-.4592	.1022	.1118	-3.208
#3	-15.59	.0188	-.2252	.1527	.0519	-3.305

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1390	.3050	-.1310	-2.593	1.856	11.99
Stddev	.2576	.8609	.5578	.473	4.596	35.01
%RSD	185.4	282.3	425.7	18.24	247.7	292.1
#1	.4340	1.298	.2699	-2.075	7.139	21.58
#2	.0244	-.2335	.1050	-2.702	-.3471	-26.82
#3	-.0414	-.1494	-.7680	-3.002	-1.224	41.21

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.346	.2163	8.294	.1135	.4760	.1830
Stddev	3.516	.1807	8.110	.6822	2.813	.7071
%RSD	149.8	83.54	97.78	601.3	590.9	386.4
#1	6.152	.4172	17.22	.8702	3.254	.6934
#2	-.7794	.1646	1.381	-.0754	.5430	.4797
#3	1.666	.0671	6.279	-.4545	-2.370	-.6241

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/30/2016 12:29:53 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.129	.3775	-.3690	.4355	1.252	.7848
Stddev	1.113	1.301	.2507	.6749	.400	.9282
%RSD	98.58	344.7	67.93	155.0	31.97	118.3
#1	-.0779	1.829	-.0891	1.215	1.413	1.853
#2	1.350	-.0111	-.5729	.0387	.7960	.3303
#3	2.115	-.6852	-.4451	.0530	1.546	.1715

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1082	.1484	.6555	14.20
Stddev	.4953	.0383	.4536	6.70
%RSD	457.8	25.83	69.20	47.17
#1	.4007	.1703	1.179	21.41
#2	.3876	.1708	.3742	8.169
#3	-.4637	.1041	.4135	13.02

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2822.9	29720.	4646.9
Stddev	5.8	62.	11.2
%RSD	.20404	.20868	.24189
#1	2827.7	29746.	4659.8
#2	2824.4	29765.	4642.2
#3	2816.5	29649.	4638.9

Sample Name: CCVL Acquired: 3/30/2016 12:34:12 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	230.4	14.74	9.994	215.8	2.042	5180.
Stddev	8.9	.43	.362	.6	.053	10.
%RSD	3.874	2.888	3.624	.2872	2.616	.1887

#1	223.7	14.53	10.09	216.3	2.068	5173.
#2	240.5	15.23	9.593	215.8	1.981	5175.
#3	226.9	14.45	10.30	215.1	2.079	5191.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.177	54.37	10.81	22.38	174.0	4934.
Stddev	.069	.04	.38	.45	3.5	35.
%RSD	1.658	.0650	3.496	1.997	2.027	.7114

#1	4.110	54.35	10.38	22.57	170.7	4899.
#2	4.248	54.34	11.09	21.87	173.5	4969.
#3	4.172	54.41	10.96	22.71	177.7	4934.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5114.	16.46	5071.	43.79	12.42	20.69
Stddev	15.	.01	15.	.75	1.21	1.11
%RSD	.2850	.0335	.2867	1.718	9.726	5.345

#1	5098.	16.46	5077.	43.24	12.09	21.62
#2	5119.	16.45	5082.	44.65	13.76	20.97
#3	5126.	16.45	5055.	43.49	11.42	19.47

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/30/2016 12:34:12 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22.42	21.06	51.91	32.22	52.90	20.79
Stddev	2.49	.30	.26	.25	.88	.18
%RSD	11.12	1.402	.5033	.7697	1.655	.8513
#1	24.19	21.40	51.65	32.12	53.87	20.98
#2	19.57	20.90	52.17	32.03	52.15	20.76
#3	23.51	20.87	51.90	32.50	52.69	20.63

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	52.46	20.93	22.32	F -3.648
Stddev	1.15	.14	.20	10.07
%RSD	2.196	.6499	.9173	276.0
#1	51.15	20.96	22.42	-13.52
#2	53.31	21.05	22.45	-4.026
#3	52.93	20.78	22.08	6.603

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2795.1	29502.	4611.3
Stddev	7.1	141.	30.0
%RSD	.25467	.47923	.65114
#1	2797.8	29428.	4578.3
#2	2800.5	29666.	4637.0
#3	2787.0	29414.	4618.7

Sample Name: pds 460-110769-E-12- Acquired: 3/30/2016 12:38:27 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	71370.	1735.	45.44	2079.	49.55	25040.
Stddev	171.	6.	.06	5.	.39	110.
%RSD	.2399	.3482	.1213	.2224	.7795	.4392
#1	71560.	1738.	45.38	2077.	50.00	24950.
#2	71220.	1728.	45.48	2076.	49.33	25020.
#3	71340.	1739.	45.46	2084.	49.33	25160.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44.33	497.4	413.9	337.6	132100.	26290.
Stddev	.26	.3	2.9	1.5	549.	70.
%RSD	.5861	.0675	.6951	.4373	.4156	.2670
#1	44.52	497.5	412.7	337.5	131600.	26370.
#2	44.42	497.1	411.8	336.1	132100.	26240.
#3	44.03	497.7	417.2	339.1	132700.	26250.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38840.	3489.	18030.	563.9	665.4	421.8
Stddev	138.	14.	55.	.3	1.8	.5
%RSD	.3549	.3966	.3049	.0605	.2707	.1292
#1	38780.	3480.	18080.	563.9	664.0	421.3
#2	38740.	3484.	17970.	563.6	664.8	422.4
#3	38990.	3505.	18040.	564.3	667.5	421.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-110769-E-12- Acquired: 3/30/2016 12:38:27 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1720.	1828.	653.3	1142.	486.7	443.0
Stddev	7.	6.	1.2	1.	1.3	1.1
%RSD	.4166	.3225	.1885	.1288	.2609	.2566
#1	1728.	1835.	652.2	1143.	487.2	443.9
#2	1716.	1825.	653.1	1143.	485.3	441.7
#3	1717.	1824.	654.7	1140.	487.6	443.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	462.8	525.0	2903.	1751.
Stddev	.4	1.4	7.	13.
%RSD	.0771	.2753	.2319	.7283
#1	463.0	526.5	2898.	1739.
#2	462.4	523.6	2902.	1751.
#3	462.9	524.9	2911.	1764.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2994.8	31361.	5153.4
Stddev	8.3	118.	81.7
%RSD	.27558	.37757	1.5855
#1	2985.6	31242.	5061.6
#2	3001.4	31479.	5218.1
#3	2997.6	31361.	5180.5

Sample Name: 460-110769-D-4-D@4 Acquired: 3/30/2016 12:46:28 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	66100.	149.7	1.431	362.2	4.911	6025.
Stddev	210.	2.0	.388	1.0	.109	20.
%RSD	.3177	1.353	27.08	.2634	2.224	.3294
#1	65970.	152.0	1.057	362.6	4.946	6002.
#2	66340.	149.0	1.405	361.1	4.789	6031.
#3	65980.	148.2	1.830	362.9	4.998	6041.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.654	69.54	316.8	214.0	108200.	8952.
Stddev	.107	.25	1.4	.9	212.	37.
%RSD	6.470	.3525	.4574	.4332	.1962	.4146
#1	1.549	69.79	315.9	213.4	108400.	8909.
#2	1.650	69.31	316.1	213.6	108000.	8979.
#3	1.762	69.51	318.5	215.1	108200.	8967.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18830.	1932.	2871.	116.1	414.6	.3578
Stddev	27.	5.	7.	.3	1.1	1.449
%RSD	.1447	.2710	.2325	.2977	.2730	405.1
#1	18800.	1927.	2871.	115.7	413.5	-.1949
#2	18820.	1932.	2878.	116.2	414.5	-.7339
#3	18860.	1937.	2865.	116.4	415.8	2.002

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-110769-D-4-D@4 Acquired: 3/30/2016 12:46:28 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.698	-1.999	172.9	2116.	37.04	3.914
Stddev	3.630	1.112	1.0	9.	.73	.073
%RSD	134.5	55.62	.5969	.4224	1.983	1.859
#1	6.782	-.7208	171.8	2107.	37.89	3.990
#2	1.478	-2.742	173.0	2116.	36.55	3.907
#3	-.1642	-2.536	173.9	2124.	36.70	3.845

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	32.09	76.60	2308.	1584.
Stddev	.02	.24	3.	8.
%RSD	.0568	.3175	.1147	.5236
#1	32.07	76.48	2311.	1594.
#2	32.10	76.44	2308.	1579.
#3	32.10	76.88	2305.	1580.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3033.6	31603.	5150.4
Stddev	15.4	200.	37.7
%RSD	.50902	.63224	.73163
#1	3019.5	31376.	5148.9
#2	3031.1	31684.	5113.5
#3	3050.1	31750.	5188.8

Sample Name: 460-110769-D-22-D@4 Acquired: 3/30/2016 12:54:38 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	73100.	62.61	1.923	329.4	5.160	7776.
Stddev	469.	1.03	.148	.4	.085	29.
%RSD	.6414	1.648	7.682	.1253	1.639	.3725

#1	72840.	63.72	2.046	329.4	5.217	7745.
#2	72820.	61.69	1.759	329.0	5.063	7781.
#3	73640.	62.42	1.964	329.8	5.201	7802.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0447	67.03	252.0	131.5	148600.	10350.
Stddev	.0446	.38	.6	.4	429.	35.
%RSD	99.87	.5634	.2342	.2866	.2887	.3363

#1	-.0818	66.74	251.4	131.8	148200.	10320.
#2	.0048	66.90	252.3	131.7	148600.	10350.
#3	-.0570	67.46	252.5	131.1	149100.	10390.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22420.	5725.	689.4	116.7	276.1	-.9302
Stddev	70.	17.	5.5	.1	.1	.6769
%RSD	.3105	.2964	.7934	.0909	.0407	72.78

#1	22350.	5706.	693.8	116.8	276.1	-1.416
#2	22430.	5734.	691.1	116.5	276.0	-1.218
#3	22490.	5737.	683.3	116.7	276.2	-.1569

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110769-D-22-D@4 Acquired: 3/30/2016 12:54:38 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.612	-2.007	224.8	802.7	39.85	3.625
Stddev	1.259	1.963	.6	5.6	.56	.179
%RSD	19.05	97.78	.2796	.6915	1.394	4.951
#1	6.207	-1.703	224.1	802.8	39.71	3.730
#2	5.606	-4.105	225.4	797.1	40.46	3.728
#3	8.025	-.2149	224.8	808.2	39.38	3.418

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	17.38	89.46	2708.	1903.
Stddev	.90	.17	5.	22.
%RSD	5.155	.1945	.1920	1.162
#1	17.76	89.28	2703.	1884.
#2	16.35	89.46	2709.	1896.
#3	18.02	89.63	2713.	1927.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3023.4	31467.	5130.5
Stddev	9.9	63.	38.6
%RSD	.32907	.19873	.75311
#1	3026.9	31454.	5119.2
#2	3031.2	31413.	5173.6
#3	3012.2	31535.	5098.8

Sample Name: 460-110769-D-25-F@4 Acquired: 3/30/2016 12:58:43 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	74740.	40.77	.6696	293.8	4.689	9362.
Stddev	219.	1.15	.0680	1.0	.050	33.
%RSD	.2933	2.829	10.15	.3565	1.062	.3511
#1	74960.	41.76	.6078	292.7	4.654	9387.
#2	74760.	39.50	.7425	294.1	4.746	9374.
#3	74520.	41.06	.6586	294.7	4.667	9325.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.086	46.06	221.2	58.09	141200.	10440.
Stddev	.079	.25	1.4	.52	71.	17.
%RSD	7.277	.5485	.6197	.8993	.0506	.1664
#1	-1.168	45.77	219.7	58.54	141200.	10450.
#2	-1.079	46.24	222.4	57.51	141100.	10440.
#3	-1.010	46.17	221.7	58.21	141100.	10420.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25640.	2862.	3252.	101.4	102.0	-8181
Stddev	62.	10.	4.	1.0	.8	1.457
%RSD	.2419	.3382	.1380	1.014	.8323	178.1
#1	25710.	2871.	3256.	100.2	101.2	-1.944
#2	25610.	2862.	3247.	102.0	102.0	-1.338
#3	25600.	2852.	3253.	102.0	102.9	.8273

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110769-D-25-F@4 Acquired: 3/30/2016 12:58:43 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.691	-5.193	182.7	346.6	37.89	2.121
Stddev	2.319	2.257	.1	2.0	.84	.129
%RSD	62.82	43.46	.0778	.5699	2.219	6.069
#1	4.554	-2.676	182.6	344.5	38.82	1.985
#2	1.065	-7.035	182.7	348.4	37.68	2.135
#3	5.455	-5.869	182.9	346.8	37.18	2.242

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	9.434	87.65	2949.	2121.
Stddev	.837	.25	3.	20.
%RSD	8.869	.2820	.0924	.9309
#1	9.524	87.93	2950.	2120.
#2	10.22	87.45	2946.	2102.
#3	8.557	87.57	2951.	2141.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3004.2	31204.	5056.4
Stddev	12.3	119.	35.9
%RSD	.40883	.38198	.71095
#1	3003.0	31081.	5026.4
#2	2992.6	31213.	5046.7
#3	3017.1	31318.	5096.3

Sample Name: 460-110769-D-26-D@4 Acquired: 3/30/2016 13:02:50 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	67570.	26.94	.0639	236.5	3.781	6046.
Stddev	579.	.99	.2957	2.1	.134	88.
%RSD	.8572	3.657	463.0	.8836	3.550	1.456

#1	66950.	26.94	-.2206	234.6	3.756	5975.
#2	67640.	25.95	.0425	236.1	3.661	6019.
#3	68100.	27.92	.3697	238.7	3.926	6145.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.9408	35.22	169.7	46.20	90500.	8634.
Stddev	.0947	.41	2.6	.45	819.	56.
%RSD	10.06	1.158	1.547	.9652	.9047	.6446

#1	-.8318	34.77	168.3	45.74	89880.	8578.
#2	-1.003	35.55	168.1	46.25	90190.	8634.
#3	-.9881	35.34	172.7	46.63	91430.	8690.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20480.	830.0	2250.	84.04	102.3	-.6922
Stddev	195.	8.8	19.	.67	.7	.4254
%RSD	.9515	1.060	.8522	.8031	.6715	61.46

#1	20330.	821.8	2237.	83.29	102.9	-.9444
#2	20420.	829.0	2240.	84.20	101.6	-.2010
#3	20700.	839.3	2272.	84.61	102.3	-.9312

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110769-D-26-D@4 Acquired: 3/30/2016 13:02:50 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.995	-3.281	164.7	261.0	32.22	3.062
Stddev	2.127	.731	1.9	2.3	.85	.034
%RSD	53.25	22.29	1.144	.8888	2.647	1.097
#1	3.190	-3.881	163.7	259.1	33.10	3.032
#2	2.387	-2.466	163.6	260.4	32.15	3.057
#3	6.407	-3.496	166.9	263.6	31.40	3.098

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	9.376	73.62	2321.	1983.
Stddev	.362	.53	17.	34.
%RSD	3.858	.7264	.7222	1.690
#1	9.353	73.28	2310.	1997.
#2	9.026	73.35	2313.	1944.
#3	9.748	74.24	2341.	2006.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2997.3	31048.	5095.3
Stddev	13.7	133.	36.4
%RSD	.45788	.42677	.71513
#1	2986.8	30985.	5132.8
#2	3012.9	31201.	5093.1
#3	2992.3	30959.	5060.1

Sample Name: 460-110769-D-37-B@4 Acquired: 3/30/2016 13:11:04 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18200.	10.11	-8252	35.75	1.045	605.3
Stddev	81.	1.92	.2736	.11	.071	6.0
%RSD	.4458	18.94	33.15	.3002	6.759	.9990
#1	18120.	11.60	-1.046	35.63	1.111	600.1
#2	18280.	7.951	-5191	35.83	1.053	612.0
#3	18190.	10.78	-9107	35.80	.9708	603.8

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3798	8.646	46.33	13.17	24620.	2686.
Stddev	.0453	.243	.30	.31	45.	4.
%RSD	11.93	2.816	.6539	2.379	.1844	.1340
#1	-.4187	8.574	46.64	13.21	24610.	2688.
#2	-.3907	8.447	46.04	13.46	24670.	2682.
#3	-.3300	8.918	46.30	12.84	24580.	2687.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4244.	180.2	844.6	21.77	17.26	-.6899
Stddev	10.	.5	7.1	.14	1.36	.9727
%RSD	.2342	.2714	.8428	.6332	7.885	141.0
#1	4235.	179.7	844.2	21.79	18.12	-1.805
#2	4254.	180.6	851.9	21.90	15.69	-.2448
#3	4242.	180.3	837.7	21.63	17.97	-.0193

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: 460-110769-D-37-B@4 Acquired: 3/30/2016 13:11:04 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.347	-1.906	62.17	57.50	7.143	1.024
Stddev	2.585	.813	.06	.35	.224	.113
%RSD	191.8	42.65	.0997	.6065	3.136	11.05
#1	4.264	-9.996	62.17	57.66	7.177	.9858
#2	-.6606	-2.148	62.23	57.10	6.904	.9342
#3	.4395	-2.570	62.10	57.73	7.348	1.151

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.711	11.19	1029.	1365.
Stddev	1.272	.05	1.	10.
%RSD	27.00	.4048	.0588	.7153
#1	5.616	11.18	1029.	1376.
#2	3.256	11.15	1029.	1361.
#3	5.260	11.24	1028.	1357.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2858.8	30009.	4758.0
Stddev	11.1	209.	8.8
%RSD	.38764	.69647	.18430
#1	2846.3	29815.	4754.7
#2	2863.0	29982.	4751.3
#3	2867.3	30230.	4767.9

Sample Name: CCV Acquired: 3/30/2016 13:19:23 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124600.	2484.	1256.	10100.	990.7	128600.
Stddev	376.	11.	2.	13.	1.3	443.
%RSD	.3018	.4532	.1986	.1263	.1352	.3442

#1	124900.	2492.	1256.	10090.	992.1	128500.
#2	124200.	2488.	1254.	10090.	989.4	129100.
#3	124600.	2471.	1259.	10110.	990.6	128200.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1258.	2503.	5092.	12370.	103200.	49130.
Stddev	1.	2.	4.	51.	100.	85.
%RSD	.0701	.0733	.0805	.4108	.0971	.1726

#1	1259.	2500.	5087.	12360.	103200.	49190.
#2	1258.	2504.	5094.	12330.	103300.	49040.
#3	1257.	2503.	5094.	12430.	103200.	49180.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	128000.	5201.	124100.	2515.	7607.	975.8
Stddev	144.	9.	476.	2.	7.	2.0
%RSD	.1127	.1658	.3833	.0844	.0876	.2098

#1	128000.	5201.	124500.	2515.	7612.	975.9
#2	128200.	5209.	123600.	2514.	7599.	977.8
#3	127900.	5192.	124100.	2518.	7610.	973.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/30/2016 13:19:23 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2480.	2517.	2471.	2522.	992.2	2486.
Stddev	8.	8.	6.	2.	1.6	6.
%RSD	.3334	.3157	.2482	.0737	.1609	.2381

#1	2482.	2508.	2465.	2524.	990.4	2480.
#2	2488.	2522.	2471.	2522.	993.4	2488.
#3	2471.	2521.	2477.	2520.	992.9	2492.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1005.	5026.	10210.	9422.
Stddev	1.	10.	145.	137.
%RSD	.1205	.2010	1.416	1.451

#1	1005.	5037.	10170.	9451.
#2	1006.	5019.	10090.	9273.
#3	1003.	5021.	10370.	9541.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2665.7	27623.	4650.8
Stddev	13.0	94.	37.0
%RSD	.48682	.34109	.79470

#1	2671.0	27662.	4680.4
#2	2675.3	27516.	4609.4
#3	2651.0	27692.	4662.6

Sample Name: CCB Acquired: 3/30/2016 13:23:26 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.514	.5729	-.2852	.2666	-.0599	-8.413
Stddev	14.62	.7378	.1231	.1055	.0651	5.917
%RSD	965.2	128.8	43.15	39.56	108.7	70.34

#1	-1.402	-.1469	-.1454	.3110	-.1004	-1.642
#2	-16.19	1.328	-.3327	.3427	.0152	-11.00
#3	13.05	.5380	-.3773	.1462	-.0944	-12.60

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0041	.0102	-.0333	-3.540	8.544	-28.30
Stddev	.0769	.0695	.3800	1.075	7.607	32.88
%RSD	1876.	680.2	1141.	30.37	89.03	116.2

#1	-.0082	.0277	.4034	-2.305	17.14	9.476
#2	-.0789	.0693	-.2887	-4.055	5.807	-50.48
#3	.0748	-.0663	-.2146	-4.261	2.685	-43.90

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.494	.3443	4.688	-.4225	1.165	-.1780
Stddev	8.189	.1449	4.880	.0970	.599	.9630
%RSD	86.26	42.09	104.1	22.96	51.36	540.9

#1	13.24	.5007	8.906	-.3447	1.856	.8037
#2	15.14	.3175	5.815	-.3916	.8207	-.2167
#3	.1014	.2147	-.6570	-.5312	.8188	-1.121

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/30/2016 13:23:26 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4743	-.9369	-.1131	.0713	1.086	.5809
Stddev	1.316	1.547	.2919	.1130	.385	.4177
%RSD	277.5	165.2	258.0	158.4	35.47	71.91
#1	1.860	.2515	-.4456	.0536	1.299	1.039
#2	.3211	-2.686	.1010	.1921	1.317	.4818
#3	-.7586	-.3757	.0052	-.0317	.6412	.2216

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0995	.1967	.8664	13.98
Stddev	.4384	.0876	.2649	8.17
%RSD	440.8	44.56	30.57	58.44
#1	.0341	.2382	1.145	16.83
#2	.5669	.2558	.8359	4.767
#3	-.3026	.0960	.6181	20.34

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2794.5	29475.	4682.6
Stddev	2.6	102.	23.8
%RSD	.09442	.34674	.50898
#1	2797.1	29357.	4707.8
#2	2791.8	29535.	4660.4
#3	2794.6	29533.	4679.5

Sample Name: CCVL Acquired: 3/30/2016 13:27:46 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	230.8	15.06	9.753	217.8	2.085	5190.
Stddev	4.9	1.11	.277	.9	.043	20.
%RSD	2.103	7.356	2.843	.3906	2.078	.3806
#1	231.8	14.52	9.549	218.5	2.126	5197.
#2	235.2	14.33	10.07	216.9	2.040	5168.
#3	225.6	16.34	9.641	218.0	2.089	5206.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.271	54.58	10.68	20.84	177.3	4882.
Stddev	.083	.24	.35	.12	12.8	37.
%RSD	1.951	.4453	3.305	.5914	7.194	.7511
#1	4.364	54.85	10.46	20.80	163.7	4850.
#2	4.246	54.38	11.09	20.98	189.0	4875.
#3	4.204	54.52	10.50	20.75	179.3	4922.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5187.	16.43	5072.	44.74	12.25	20.02
Stddev	9.	.03	11.	.52	.87	1.34
%RSD	.1811	.2008	.2164	1.169	7.073	6.704
#1	5190.	16.47	5060.	45.18	12.30	19.61
#2	5177.	16.41	5081.	44.16	11.35	18.92
#3	5195.	16.42	5074.	44.88	13.08	21.51

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/30/2016 13:27:46 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.83	22.15	51.35	32.03	53.11	20.82
Stddev	1.68	.04	.44	.26	.39	.11
%RSD	8.075	.2033	.8554	.8026	.7336	.5277

#1	22.78	22.10	51.57	31.95	53.13	20.94
#2	19.84	22.16	50.84	31.83	53.49	20.73
#3	19.89	22.19	51.63	32.32	52.71	20.79

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	52.85	20.77	22.92	F -3.374
Stddev	.98	.04	.16	11.67
%RSD	1.850	.1721	.6978	346.0

#1	53.85	20.81	23.11	-16.84
#2	52.80	20.74	22.84	2.971
#3	51.90	20.78	22.82	3.751

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2781.3	29256.	4666.8
Stddev	12.5	117.	90.5
%RSD	.44978	.39873	1.9383

#1	2780.2	29348.	4765.4
#2	2794.4	29295.	4647.6
#3	2769.5	29125.	4587.5

Sample Name: 460-110769-E-52-D@4 Acquired: 3/30/2016 13:36:11 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51030.	36.05	1.283	228.9	3.545	7128.
Stddev	123.	1.12	.139	.4	.056	10.
%RSD	.2417	3.113	10.82	.1572	1.574	.1419
#1	51160.	34.77	1.143	228.6	3.558	7124.
#2	50920.	36.89	1.420	229.3	3.484	7121.
#3	51000.	36.48	1.288	229.0	3.593	7140.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7016	42.50	176.9	93.23	92470.	8141.
Stddev	.1542	.13	.7	.24	120.	57.
%RSD	21.98	.2959	.4236	.2611	.1301	.6999
#1	.5235	42.37	177.1	93.43	92390.	8193.
#2	.7881	42.50	176.1	93.30	92410.	8151.
#3	.7930	42.63	177.6	92.96	92610.	8080.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16820.	2716.	2261.	92.91	153.0	.1566
Stddev	22.	5.	5.	1.01	.5	.8470
%RSD	.1294	.1698	.2249	1.089	.3133	540.7
#1	16840.	2721.	2259.	91.76	152.5	1.076
#2	16810.	2714.	2257.	93.28	153.1	-.0144
#3	16800.	2713.	2267.	93.68	153.5	-.5918

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110769-E-52-D@4 Acquired: 3/30/2016 13:36:11 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.878	-3.579	182.7	598.2	39.75	3.225
Stddev	2.876	.930	.2	1.8	.45	.136
%RSD	41.82	25.98	.1327	.3069	1.137	4.228
#1	4.442	-3.741	182.9	596.3	39.37	3.204
#2	6.142	-4.418	182.4	598.4	40.25	3.101
#3	10.05	-2.579	182.8	599.9	39.63	3.371

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	13.70	74.06	2061.	1577.
Stddev	.52	.30	1.	36.
%RSD	3.824	.3992	.0656	2.258
#1	13.24	74.40	2060.	1613.
#2	14.27	73.89	2060.	1578.
#3	13.58	73.88	2063.	1542.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2932.6	30455.	4950.6
Stddev	4.4	114.	33.8
%RSD	.14902	.37523	.68265
#1	2933.3	30324.	4918.9
#2	2928.0	30536.	4946.7
#3	2936.7	30504.	4986.2

Sample Name: 460-110769-E-64-D@4 Acquired: 3/30/2016 13:40:19 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27420.	11.13	-1.1919	111.7	1.739	6953.
Stddev	118.	1.27	.1130	.6	.010	30.
%RSD	.4304	11.38	58.91	.5042	.5508	.4348
#1	27460.	11.70	-.2659	111.0	1.728	6936.
#2	27290.	12.01	-.0618	112.1	1.744	6935.
#3	27510.	9.675	-.2480	111.9	1.746	6988.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7320	20.96	67.18	10.61	59220.	3733.
Stddev	.0804	.29	.45	.37	85.	8.
%RSD	10.98	1.378	.6714	3.457	.1431	.2163
#1	-.7685	20.65	66.68	10.99	59220.	3728.
#2	-.6398	20.99	67.28	10.57	59130.	3729.
#3	-.7876	21.23	67.57	10.26	59300.	3743.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8930.	780.6	3308.	35.42	22.40	.2122
Stddev	37.	1.2	8.	.39	.78	.2673
%RSD	.4087	.1486	.2456	1.089	3.461	125.9
#1	8929.	779.5	3312.	35.00	23.23	.5207
#2	8894.	780.5	3314.	35.52	22.28	.0651
#3	8967.	781.8	3299.	35.75	21.70	.0509

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110769-E-64-D@4 Acquired: 3/30/2016 13:40:19 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.110	-3.445	69.14	94.24	29.75	2.052
Stddev	.985	.919	.47	.57	.37	.093
%RSD	31.68	26.67	.6840	.6068	1.251	4.538
#1	2.440	-3.708	69.08	93.87	29.94	1.989
#2	4.241	-4.203	68.70	93.95	29.32	2.159
#3	2.649	-2.423	69.64	94.90	29.99	2.007

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	4.994	103.0	983.1	2082.
Stddev	.505	.4	2.4	35.
%RSD	10.10	.4041	.2404	1.670
#1	5.421	102.7	984.7	2114.
#2	5.123	102.8	980.4	2088.
#3	4.437	103.5	984.2	2045.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2827.3	29625.	4761.9
Stddev	8.5	34.	77.8
%RSD	.30070	.11485	1.6336
#1	2837.0	29646.	4820.3
#2	2821.2	29643.	4791.8
#3	2823.8	29586.	4673.6

Sample Name: 460-110769-D-68-B@4 Acquired: 3/30/2016 13:48:40 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53330.	92.71	1.318	269.6	3.910	8103.
Stddev	229.	2.56	.225	.7	.116	29.
%RSD	.4292	2.767	17.10	.2545	2.956	.3558

#1	53340.	91.93	1.137	268.9	3.783	8089.
#2	53560.	90.64	1.570	270.3	3.938	8137.
#3	53110.	95.58	1.248	269.5	4.009	8085.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.016	61.59	243.8	142.1	109800.	8779.
Stddev	.041	.26	2.0	1.3	389.	34.
%RSD	3.991	.4154	.8109	.9170	.3543	.3839

#1	.9768	61.50	243.4	142.6	109700.	8760.
#2	1.013	61.40	246.0	143.2	110200.	8759.
#3	1.058	61.88	242.1	140.7	109500.	8818.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	31030.	3141.	417.8	283.1	339.1	.3711
Stddev	114.	9.	4.0	.9	1.6	.4448
%RSD	.3661	.2887	.9464	.3041	.4859	119.9

#1	31010.	3132.	417.9	283.5	339.8	.0063
#2	31150.	3150.	421.6	283.7	340.2	.2403
#3	30920.	3140.	413.7	282.1	337.2	.8667

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110769-D-68-B@4 Acquired: 3/30/2016 13:48:40 Type: Unk
 Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.326	-.9678	159.5	934.7	33.74	3.277
Stddev	3.616	1.430	.7	3.5	.77	.066
%RSD	67.88	147.8	.4400	.3741	2.283	2.002
#1	6.406	-1.863	159.2	930.7	34.24	3.201
#2	1.294	.6813	160.3	936.4	32.85	3.307
#3	8.279	-1.721	159.0	937.0	34.12	3.321

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	23.67	72.57	1927.	1574.
Stddev	.32	.29	8.	19.
%RSD	1.347	.4035	.4072	1.186
#1	24.03	72.52	1928.	1595.
#2	23.49	72.89	1934.	1562.
#3	23.48	72.31	1919.	1564.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
 High Limit
 Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2928.4	30480.	4986.1
Stddev	7.4	153.	24.4
%RSD	.25226	.50112	.49010
#1	2921.5	30481.	5013.6
#2	2927.7	30326.	4966.7
#3	2936.2	30632.	4978.1

Sample Name: 460-110570-H-9-B@4 Acquired: 3/30/2016 13:57:02 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42320.	9.720	-1.667	184.7	1.891	25060.
Stddev	101.	1.343	.2186	.2	.124	73.
%RSD	.2386	13.82	131.1	.0894	6.565	.2902
#1	42390.	9.077	-.3942	184.7	1.786	25140.
#2	42360.	11.26	-.1476	184.6	1.860	25060.
#3	42200.	8.819	.0417	184.9	2.028	24990.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7523	22.17	50.79	148.3	56260.	2391.
Stddev	.0578	.13	.82	.2	22.	16.
%RSD	7.687	.5769	1.609	.1330	.0394	.6837
#1	-.8191	22.27	50.27	148.2	56230.	2409.
#2	-.7191	22.03	50.38	148.1	56260.	2384.
#3	-.7187	22.21	51.74	148.5	56280.	2379.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14280.	1468.	1328.	37.80	61.87	.1000
Stddev	25.	8.	6.	.31	1.38	1.933
%RSD	.1725	.5147	.4361	.8109	2.226	1933.
#1	14290.	1476.	1329.	37.46	63.40	2.190
#2	14300.	1468.	1334.	38.05	61.49	-1.623
#3	14250.	1460.	1322.	37.90	60.72	-.2666

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110570-H-9-B@4 Acquired: 3/30/2016 13:57:02 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.936	-2.474	70.90	119.8	10.30	1.693
Stddev	2.436	2.074	.60	.4	.20	.228
%RSD	125.8	83.82	.8514	.3067	1.907	13.47
#1	4.745	-1.070	70.26	119.4	10.07	1.817
#2	.6586	-1.496	70.98	120.0	10.43	1.832
#3	.4053	-4.855	71.46	120.1	10.40	1.430

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.853	90.38	761.5	1310.
Stddev	.869	.48	1.7	13.
%RSD	14.85	.5292	.2241	.9655
#1	5.072	90.60	759.8	1297.
#2	5.698	90.71	761.3	1323.
#3	6.789	89.83	763.2	1311.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2895.9	30158.	4898.6
Stddev	8.1	202.	28.4
%RSD	.28081	.67109	.57986
#1	2890.6	29925.	4874.2
#2	2905.3	30259.	4929.8
#3	2892.0	30290.	4891.9

Sample Name: MB 460-359247/1-A@2 Acquired: 3/30/2016 14:01:14 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.863	.5759	.0329	-.1256	-.0320	-8.483
Stddev	5.089	.7613	.5702	.0782	.0741	9.107
%RSD	86.79	132.2	1733.	62.31	231.2	107.4
#1	3.820	.8603	-.6025	-.0395	.0434	-10.41
#2	11.66	1.154	.4999	-.1450	-.0348	1.432
#3	2.114	-.2867	.2013	-.1923	-.1047	-16.47

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0384	-.0251	-.0608	-2.934	8.305	-15.70
Stddev	.0920	.1042	.3185	.828	13.17	7.27
%RSD	239.4	414.2	523.7	28.23	158.6	46.28
#1	-.1384	-.1035	-.4019	-3.839	4.177	-22.48
#2	.0426	.0931	.2288	-2.751	23.05	-8.027
#3	-.0194	-.0650	-.0094	-2.213	-2.308	-16.61

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.527	.1788	-3.468	-.3213	-.2811	-1.224
Stddev	2.221	.2647	5.036	.4117	1.828	.900
%RSD	49.06	148.1	145.2	128.1	650.5	73.50
#1	2.916	.0094	1.600	-.2755	-1.773	-2.183
#2	7.061	.4838	-8.471	-.7540	-.8279	-1.092
#3	3.605	.0431	-3.533	.0656	1.758	-.3978

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-359247/1-A@2 Acquired: 3/30/2016 14:01:14 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7693	-1.498	.0098	.5352	.0705	-.2997
Stddev	.2637	.792	.2269	.0719	.3117	.1714
%RSD	34.28	52.89	2319.	13.43	442.2	57.20
#1	.4666	-.5857	.2113	.5371	.1674	-.1076
#2	.8929	-2.012	-.2360	.4624	.3223	-.3545
#3	.9486	-1.897	.0541	.6061	-.2782	-.4370

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.5368	-.0685	.1938	-4.091
Stddev	.4778	.0763	.1891	1.262
%RSD	89.00	111.4	97.57	30.85
#1	-.2147	-.1243	.0736	-3.175
#2	-1.086	-.0998	.4118	-5.530
#3	-.3100	.0185	.0961	-3.567

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2858.9	29780.	4706.8
Stddev	17.7	306.	65.9
%RSD	.61844	1.0266	1.4006
#1	2840.1	29444.	4633.7
#2	2861.4	29854.	4761.8
#3	2875.2	30041.	4724.8

Sample Name: LCSSRM 460-359247/2- Acquired: 3/30/2016 14:05:36 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34910.	466.5	194.0	1585.	318.9	32330.
Stddev	98.	1.6	1.1	4.	.8	98.
%RSD	.2797	.3362	.5852	.2707	.2647	.3040
#1	34830.	468.2	192.9	1584.	319.3	32220.
#2	34870.	465.2	195.1	1581.	317.9	32360.
#3	35020.	466.0	193.9	1590.	319.4	32410.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	724.4	826.9	917.2	506.0	69880.	11320.
Stddev	1.4	1.2	2.7	1.7	192.	74.
%RSD	.1977	.1400	.2994	.3307	.2741	.6500
#1	724.4	826.3	914.5	507.0	69770.	11290.
#2	723.0	826.2	920.0	507.0	70110.	11260.
#3	725.8	828.3	917.1	504.1	69770.	11400.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12230.	2109.	11910.	777.1	664.7	267.8
Stddev	30.	6.	34.	1.6	3.4	.5
%RSD	.2461	.2618	.2840	.2019	.5112	.1886
#1	12190.	2103.	11900.	778.3	663.4	268.0
#2	12240.	2110.	11880.	775.3	662.2	267.3
#3	12250.	2114.	11950.	777.8	668.6	268.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCSSRM 460-359247/2- Acquired: 3/30/2016 14:05:36 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	736.5	926.0	461.6	945.0	670.3	803.8
Stddev	3.1	6.8	.6	1.9	1.4	2.2
%RSD	.4236	.7302	.1313	.2026	.2076	.2786
#1	740.0	924.6	461.9	944.7	671.5	803.6
#2	734.0	920.1	462.0	943.2	668.7	801.7
#3	735.4	933.4	460.9	947.0	670.6	806.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	506.0	416.9	1945.	821.7
Stddev	2.2	1.6	6.	7.3
%RSD	.4328	.3804	.3164	.8910
#1	504.3	416.2	1945.	819.4
#2	505.2	415.8	1952.	829.9
#3	508.5	418.7	1939.	815.8

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2936.3	30679.	5013.3
Stddev	12.6	107.	26.4
%RSD	.42891	.34912	.52589
#1	2937.7	30637.	5031.5
#2	2948.2	30801.	5025.3
#3	2923.1	30600.	4983.1

Sample Name: 460-110815-A-1-B DU Acquired: 3/30/2016 14:09:37 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27140.	4.910	-1.1320	165.8	1.625	7340.
Stddev	124.	.926	.0590	.2	.230	52.
%RSD	.4551	18.87	44.67	.1350	14.17	.7108

#1	27060.	5.569	-.1585	165.7	1.873	7311.
#2	27080.	3.850	-.1731	165.6	1.583	7310.
#3	27280.	5.309	-.0644	166.0	1.418	7401.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3853	22.41	36.13	32.05	40770.	1071.
Stddev	.0499	.15	.27	.71	216.	13.
%RSD	12.94	.6601	.7430	2.201	.5300	1.193

#1	-.4195	22.25	35.82	32.48	40550.	1073.
#2	-.4084	22.45	36.26	31.24	40790.	1083.
#3	-.3281	22.54	36.30	32.44	40980.	1058.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3481.	1597.	66.65	59.03	165.3	1.430
Stddev	24.	8.	13.49	.21	.6	.188
%RSD	.6776	.4863	20.24	.3555	.3890	13.14

#1	3467.	1591.	78.63	59.13	164.6	1.216
#2	3467.	1596.	52.03	58.79	165.3	1.508
#3	3508.	1606.	69.27	59.16	165.9	1.567

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110815-A-1-B DU Acquired: 3/30/2016 14:09:37 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.182	-1.020	38.11	171.8	4.824	1.129
Stddev	1.832	1.512	.25	.5	.120	.073
%RSD	155.0	148.2	.6438	.3017	2.493	6.436
#1	-0.6405	.0828	37.84	171.3	4.743	1.164
#2	1.163	-2.743	38.33	171.8	4.767	1.046
#3	3.023	-3.992	38.16	172.3	4.962	1.178

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	8.820	48.23	786.6	941.3
Stddev	.350	.35	2.4	.2
%RSD	3.969	.7319	.2993	.0264
#1	8.433	48.63	784.6	941.1
#2	8.914	48.13	786.2	941.3
#3	9.114	47.94	789.2	941.6

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2867.4	29663.	4835.6
Stddev	6.1	243.	39.5
%RSD	.21382	.81905	.81649
#1	2868.6	29740.	4871.5
#2	2872.8	29858.	4842.0
#3	2860.7	29391.	4793.3

Sample Name: CCB Acquired: 3/30/2016 14:17:53 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.998	1.209	-1.249	.7055	-.0132	-9.657
Stddev	5.063	.862	.0612	.7600	.0303	2.805
%RSD	84.42	71.32	49.01	107.7	229.3	29.04

#1	2.455	.5172	-.0562	.4541	-.0337	-7.263
#2	3.742	2.175	-.1736	1.559	-.0276	-8.966
#3	11.80	.9347	-.1450	.1029	.0216	-12.74

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0127	.1683	-.2470	-2.265	-.8874	-2.141
Stddev	.0730	.1866	.2884	.701	3.404	6.628
%RSD	575.5	110.9	116.8	30.94	383.5	309.7

#1	-.0585	.0973	-.3507	-1.591	-2.151	-1.484
#2	.0714	.3800	.0789	-2.215	-3.479	4.135
#3	-.0510	.0276	-.4692	-2.990	2.967	-9.073

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8325	.2386	1.965	-.2916	.1308	-1.073
Stddev	3.680	.0526	4.543	.1394	.4980	1.776
%RSD	442.0	22.05	231.2	47.81	380.7	165.5

#1	4.553	.2857	6.237	-.4152	.1936	-1.421
#2	.7507	.1818	2.464	-.3193	.5945	-2.649
#3	-2.806	.2483	-2.807	-.1405	-.3956	.8509

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/30/2016 14:17:53 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8052	-.9101	-.2899	-.1000	1.293	.6058
Stddev	1.850	1.539	.3084	.1669	.333	.3660
%RSD	229.8	169.2	106.4	167.0	25.77	60.41
#1	2.913	-.6336	.0546	-.2741	.9085	.8531
#2	-.5484	-2.569	-.3841	.0587	1.488	.7790
#3	.0508	.4724	-.5402	-.0845	1.484	.1854

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1253	.1526	.5761	-11.36
Stddev	.3275	.0881	.0770	7.33
%RSD	261.4	57.75	13.37	64.51
#1	.4223	.1384	.4921	-13.83
#2	.1794	.2470	.5926	-17.14
#3	-.2259	.0725	.6435	-3.118

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2831.7	29519.	4663.1
Stddev	7.9	38.	35.5
%RSD	.27904	.12796	.76227
#1	2837.4	29476.	4699.7
#2	2822.7	29533.	4628.7
#3	2835.0	29548.	4661.0

Sample Name: CCVL Acquired: 3/30/2016 14:22:14 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	221.9	15.67	10.08	213.1	2.025	5115.
Stddev	10.4	2.09	.26	1.1	.070	18.
%RSD	4.681	13.36	2.543	.4994	3.456	.3444

#1	233.7	18.06	10.22	213.8	1.946	5133.
#2	214.5	14.17	9.782	213.7	2.049	5097.
#3	217.3	14.78	10.23	211.9	2.080	5115.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.117	53.45	10.35	20.79	172.6	4832.
Stddev	.139	.33	.56	.20	3.5	37.
%RSD	3.387	.6149	5.409	.9608	2.028	.7578

#1	4.277	53.53	10.69	20.60	168.5	4791.
#2	4.021	53.73	9.704	20.77	174.5	4860.
#3	4.054	53.09	10.66	21.00	174.6	4846.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5069.	16.22	4988.	43.37	12.23	17.19
Stddev	30.	.05	18.	.33	.14	1.05
%RSD	.5997	.3236	.3576	.7516	1.107	6.130

#1	5100.	16.25	4981.	43.55	12.39	16.89
#2	5039.	16.16	4975.	42.99	12.15	18.37
#3	5069.	16.24	5008.	43.56	12.17	16.32

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/30/2016 14:22:14 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.99	21.19	51.04	31.42	52.49	20.25
Stddev	2.37	1.22	.44	.06	.20	.21
%RSD	12.50	5.765	.8654	.1891	.3725	1.025

#1	20.46	21.83	51.36	31.36	52.69	20.48
#2	20.25	21.96	50.53	31.45	52.46	20.21
#3	16.25	19.78	51.22	31.47	52.30	20.07

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	52.55	20.49	22.17	F -7.695
Stddev	.96	.10	.15	18.79
%RSD	1.828	.4808	.6674	244.2

#1	51.44	20.60	22.33	13.53
#2	53.13	20.44	22.13	-22.18
#3	53.08	20.42	22.04	-14.43

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2798.2	29470.	4637.3
Stddev	9.7	193.	41.1
%RSD	.34813	.65594	.88558

#1	2788.4	29248.	4626.5
#2	2798.4	29600.	4602.6
#3	2807.9	29563.	4682.7

Sample Name: 460-110815-A-1-A@4 Acquired: 3/30/2016 14:26:31 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27110.	4.447	-.0370	165.4	1.542	7187.
Stddev	72.	1.163	.1055	.6	.095	26.
%RSD	.2654	26.14	285.2	.3400	6.177	.3572

#1	27090.	3.298	.0825	165.7	1.440	7158.
#2	27040.	5.623	-.0764	165.7	1.628	7205.
#3	27190.	4.420	-.1170	164.8	1.557	7199.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3072	22.31	35.64	30.26	40330.	1090.
Stddev	.1111	.27	.51	.17	127.	23.
%RSD	36.18	1.207	1.435	.5545	.3157	2.136

#1	-.1793	22.46	35.30	30.07	40250.	1081.
#2	-.3613	22.48	36.23	30.40	40470.	1117.
#3	-.3809	22.00	35.39	30.31	40250.	1073.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3430.	1563.	63.59	59.54	167.0	-1.090
Stddev	13.	5.	11.17	.69	1.5	1.108
%RSD	.3871	.3436	17.56	1.162	.9096	101.6

#1	3420.	1557.	70.94	60.27	167.0	-.1744
#2	3445.	1565.	69.08	59.45	168.5	-2.321
#3	3425.	1567.	50.74	58.90	165.5	-.7754

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110815-A-1-A@4 Acquired: 3/30/2016 14:26:31 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.640	-.8833	38.94	172.4	4.822	1.046
Stddev	3.331	1.109	.41	.8	.244	.274
%RSD	203.1	125.6	1.061	.4474	5.059	26.18
#1	5.430	.0150	38.83	172.5	5.059	1.284
#2	.3121	-2.124	39.40	171.6	4.834	1.107
#3	-.8220	-.5415	38.59	173.1	4.572	.7466

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.933	47.90	784.9	952.6
Stddev	.355	.13	1.8	18.5
%RSD	4.471	.2680	.2243	1.941
#1	7.573	47.95	785.0	969.8
#2	7.943	47.75	786.5	933.1
#3	8.282	47.99	783.0	955.0

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2812.6	29686.	4764.3
Stddev	14.0	138.	38.7
%RSD	.49818	.46553	.81220
#1	2796.5	29594.	4721.4
#2	2822.4	29619.	4796.4
#3	2818.8	29845.	4775.3

Sample Name: sd 460-110815-A-1-A Acquired: 3/30/2016 14:30:43 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5240.	1.250	-1.1574	31.99	.2905	1391.
Stddev	47.	.795	.4520	.31	.0843	3.
%RSD	.8918	63.63	287.2	.9827	29.02	.2049
#1	5218.	.4894	.0557	31.67	.2446	1390.
#2	5209.	2.075	.1487	32.00	.3878	1390.
#3	5294.	1.184	-.6766	32.30	.2390	1395.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0870	4.266	6.478	2.668	7914.	202.8
Stddev	.0671	.127	.450	.419	35.	8.5
%RSD	77.14	2.970	6.953	15.70	.4367	4.202
#1	-.0557	4.252	6.919	2.939	7875.	194.0
#2	-.1641	4.147	6.018	2.879	7926.	203.6
#3	-.0413	4.399	6.497	2.186	7942.	211.0

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	670.0	303.5	5.303	11.15	32.59	-.3375
Stddev	3.7	.8	5.971	.45	.85	.8398
%RSD	.5506	.2573	112.6	4.016	2.623	248.9
#1	669.4	303.5	8.202	10.86	32.17	.5956
#2	666.7	304.3	9.271	10.92	32.02	-.5753
#3	674.0	302.7	-1.564	11.67	33.57	-1.033

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: sd 460-110815-A-1-A Acquired: 3/30/2016 14:30:43 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.883	-1.240	7.381	33.66	.9962	.0751
Stddev	.9598	.974	.440	.22	.3280	.1016
%RSD	509.6	78.55	5.959	.6590	32.93	135.4
#1	1.280	-.6197	6.973	33.67	.6316	-.0285
#2	-.5239	-2.362	7.323	33.44	1.267	.1747
#3	-.1910	-.7373	7.847	33.89	1.090	.0791

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.514	9.163	150.6	167.1
Stddev	.671	.036	1.5	25.5
%RSD	44.32	.3962	.9799	15.29
#1	1.859	9.152	149.3	196.2
#2	1.943	9.133	150.5	148.7
#3	.7408	9.203	152.2	156.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2831.5	29757.	4674.7
Stddev	13.3	196.	38.5
%RSD	.46836	.65733	.82348
#1	2845.7	29595.	4632.3
#2	2829.4	29703.	4707.4
#3	2819.4	29974.	4684.5

Sample Name: 460-110815-A-1-C MS Acquired: 3/30/2016 14:35:00 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32440.	946.7	24.64	1199.	26.95	16750.
Stddev	80.	.9	.68	2.	.06	66.
%RSD	.2463	.0933	2.754	.1965	.2347	.3954
#1	32500.	947.0	24.88	1201.	26.95	16730.
#2	32350.	945.7	23.88	1197.	26.89	16700.
#3	32450.	947.4	25.18	1198.	27.02	16830.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24.58	272.6	148.7	161.7	58830.	10210.
Stddev	.03	.3	.9	1.2	172.	9.
%RSD	.1166	.1242	.6189	.7627	.2919	.0873
#1	24.57	272.8	149.7	162.6	58890.	10210.
#2	24.62	272.7	148.0	160.3	58640.	10220.
#3	24.57	272.2	148.3	162.3	58980.	10210.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13720.	1969.	9795.	320.4	496.6	142.9
Stddev	88.	7.	6.	.7	1.5	.6
%RSD	.6402	.3643	.0627	.2164	.3035	.4448
#1	13780.	1971.	9802.	321.0	498.3	142.4
#2	13620.	1961.	9789.	320.5	495.5	142.8
#3	13760.	1975.	9795.	319.6	496.0	143.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110815-A-1-C MS Acquired: 3/30/2016 14:35:00 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	961.2	1050.	299.2	433.9	251.4	249.6
Stddev	4.0	1.	1.1	1.0	1.0	.8
%RSD	.4201	.1400	.3798	.2194	.4156	.3067
#1	965.5	1048.	299.2	432.9	251.9	249.6
#2	957.4	1051.	298.0	434.7	250.2	248.8
#3	960.8	1050.	300.3	434.2	252.1	250.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	263.8	294.2	1123.	1111.
Stddev	.3	.4	5.	13.
%RSD	.1312	.1450	.4142	1.199
#1	263.5	294.5	1127.	1101.
#2	264.2	293.7	1118.	1107.
#3	263.7	294.4	1122.	1126.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2759.7	28905.	4678.1
Stddev	5.7	250.	21.4
%RSD	.20666	.86553	.45835
#1	2753.4	28639.	4657.8
#2	2764.6	29136.	4700.5
#3	2761.1	28941.	4676.0

Sample Name: pds 460-110815-A-1-A Acquired: 3/30/2016 14:39:03 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	29010.	1820.	47.37	2116.	49.62	26180.
Stddev	98.	1.	.34	2.	.05	114.
%RSD	.3368	.0707	.7126	.0901	.0982	.4359
#1	28920.	1821.	47.02	2115.	49.64	26220.
#2	29110.	1819.	47.69	2118.	49.65	26270.
#3	29010.	1820.	47.41	2115.	49.56	26050.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47.66	509.6	237.4	261.8	40690.	18080.
Stddev	.07	.1	.9	.7	174.	48.
%RSD	.1461	.0243	.3840	.2811	.4263	.2678
#1	47.58	509.5	237.6	262.4	40770.	18050.
#2	47.71	509.7	238.2	262.1	40820.	18140.
#3	47.69	509.5	236.4	261.0	40500.	18050.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21980.	2028.	18750.	561.7	664.1	452.0
Stddev	102.	10.	33.	.4	.8	1.1
%RSD	.4651	.4705	.1786	.0624	.1196	.2485
#1	22030.	2031.	18720.	561.3	665.0	453.2
#2	22040.	2035.	18790.	561.9	664.1	450.9
#3	21860.	2017.	18750.	561.9	663.4	452.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-110815-A-1-A Acquired: 3/30/2016 14:39:03 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1847.	2008.	518.8	647.7	491.6	480.5
Stddev	6.	5.	1.4	1.8	.7	.4
%RSD	.2996	.2356	.2714	.2840	.1378	.0902
#1	1853.	2009.	518.8	646.1	491.2	481.0
#2	1845.	2003.	520.3	647.3	491.2	480.5
#3	1842.	2012.	517.5	649.7	492.3	480.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	498.8	519.9	1291.	970.4
Stddev	2.5	.7	4.	13.7
%RSD	.4995	.1407	.2789	1.408
#1	501.7	519.3	1292.	955.4
#2	497.7	520.7	1294.	982.0
#3	497.1	519.8	1287.	973.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2751.8	28871.	4695.4
Stddev	3.5	177.	20.5
%RSD	.12627	.61186	.43579
#1	2754.4	28722.	4675.4
#2	2747.9	28825.	4716.3
#3	2753.1	29066.	4694.5

Sample Name: 460-111152-A-1-A@4 Acquired: 3/30/2016 14:43:02 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	30890.	54.62	.3712	229.8	2.167	6666.
Stddev	228.	2.91	.0429	1.1	.081	86.
%RSD	.7385	5.325	11.56	.4751	3.736	1.296

#1	30660.	55.69	.4031	229.1	2.111	6593.
#2	30900.	51.33	.3882	229.2	2.129	6643.
#3	31120.	56.85	.3224	231.0	2.260	6761.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9719	43.82	132.2	1459.	92390.	5952.
Stddev	.0610	.38	1.0	14.	719.	65.
%RSD	6.275	.8569	.7815	.9718	.7784	1.086

#1	1.013	43.54	131.2	1443.	91820.	5902.
#2	1.001	43.66	132.3	1465.	92150.	5928.
#3	.9018	44.24	133.2	1469.	93200.	6025.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13110.	1160.	7485.	90.35	288.8	8.456
Stddev	126.	12.	73.	.39	2.3	1.149
%RSD	.9604	1.043	.9694	.4273	.8084	13.59

#1	13010.	1149.	7412.	90.21	287.0	9.768
#2	13070.	1158.	7487.	90.05	288.0	7.628
#3	13250.	1173.	7557.	90.79	291.4	7.972

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111152-A-1-A@4 Acquired: 3/30/2016 14:43:02 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.425	-3.414	88.87	1616.	43.95	307.4
Stddev	.408	1.167	.94	20.	.05	1.3
%RSD	11.92	34.18	1.053	1.234	.1090	.4182
#1	3.896	-3.914	88.06	1599.	43.96	306.5
#2	3.168	-4.247	88.66	1611.	43.99	306.9
#3	3.212	-2.080	89.90	1638.	43.90	308.9

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	50.27	77.47	1411.	984.4
Stddev	.90	.91	8.	25.0
%RSD	1.795	1.175	.5928	2.538
#1	50.46	76.58	1405.	958.8
#2	49.29	77.44	1409.	1009.
#3	51.06	78.40	1421.	985.7

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2823.7	29523.	4778.4
Stddev	11.6	168.	51.6
%RSD	.41178	.56950	1.0792
#1	2820.0	29541.	4733.6
#2	2836.7	29681.	4834.8
#3	2814.4	29346.	4766.7

Sample Name: 460-111152-B-2-A@4 Acquired: 3/30/2016 14:47:10 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42380.	129.0	.6867	238.0	2.601	6610.
Stddev	120.	2.3	.6048	1.3	.094	20.
%RSD	.2832	1.797	88.07	.5319	3.610	.3096
#1	42480.	127.3	.0196	236.7	2.548	6593.
#2	42400.	128.0	.8414	238.0	2.710	6603.
#3	42250.	131.6	1.199	239.2	2.546	6633.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.235	28.40	172.0	524.9	86560.	7304.
Stddev	.115	.14	1.3	2.9	275.	40.
%RSD	5.141	.4902	.7845	.5573	.3173	.5412
#1	2.136	28.25	172.4	523.7	86760.	7284.
#2	2.207	28.46	170.5	522.7	86250.	7349.
#3	2.361	28.51	173.2	528.2	86670.	7278.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15880.	957.6	8048.	65.80	657.3	.3814
Stddev	67.	.9	15.	.53	1.5	1.027
%RSD	.4238	.0958	.1925	.8009	.2269	269.3
#1	15920.	958.1	8059.	65.85	657.0	1.293
#2	15800.	958.2	8054.	65.24	656.1	.5827
#3	15910.	956.6	8030.	66.29	659.0	-.7316

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-111152-B-2-A@4 Acquired: 3/30/2016 14:47:10 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.073	-3.681	124.0	822.9	40.60	2.862
Stddev	3.021	1.016	.5	1.0	.36	.192
%RSD	74.17	27.60	.3886	.1252	.8930	6.714
#1	.6107	-2.968	123.8	823.7	40.18	2.970
#2	6.171	-4.844	123.6	823.2	40.84	2.640
#3	5.436	-3.231	124.5	821.7	40.77	2.975

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	20.15	72.87	1844.	1051.
Stddev	.38	.21	9.	24.
%RSD	1.909	.2860	.4910	2.278
#1	19.72	72.82	1844.	1060.
#2	20.48	73.10	1835.	1024.
#3	20.24	72.69	1853.	1070.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2820.3	29389.	4704.9
Stddev	12.6	320.	80.5
%RSD	.44815	1.0873	1.7103
#1	2806.4	29050.	4659.7
#2	2831.2	29684.	4657.2
#3	2823.2	29434.	4797.8

Sample Name: 460-111152-B-4-A@4 Acquired: 3/30/2016 14:51:20 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	52640.	99.90	.7398	173.9	3.301	8163.
Stddev	228.	.85	.2970	.3	.075	45.
%RSD	.4333	.8529	40.15	.1657	2.286	.5491
#1	52860.	100.7	.5661	173.5	3.354	8111.
#2	52650.	99.00	1.083	174.0	3.334	8187.
#3	52410.	100.00	.5705	174.0	3.214	8191.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5114	33.34	164.3	58.39	109000.	9492.
Stddev	.1203	.21	.5	.41	552.	34.
%RSD	23.51	.6334	.3003	.7065	.5066	.3540
#1	.5945	33.19	163.7	58.70	108400.	9523.
#2	.3735	33.26	164.5	58.55	109400.	9497.
#3	.5662	33.59	164.6	57.92	109100.	9456.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20620.	1300.	9693.	76.47	118.5	1.024
Stddev	95.	4.	51.	.23	1.2	.506
%RSD	.4590	.3007	.5216	.3030	1.026	49.41
#1	20510.	1295.	9749.	76.71	119.1	.6347
#2	20680.	1302.	9679.	76.44	117.1	1.596
#3	20670.	1302.	9651.	76.25	119.3	.8419

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-111152-B-4-A@4 Acquired: 3/30/2016 14:51:20 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.033	-4.366	151.5	398.4	52.53	2.999
Stddev	1.287	.718	.1	3.8	.90	.077
%RSD	31.93	16.45	.0902	.9651	1.720	2.557
#1	5.469	-3.545	151.6	395.1	51.64	3.017
#2	2.983	-4.877	151.6	397.6	52.51	2.914
#3	3.646	-4.677	151.4	402.6	53.45	3.064

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	12.45	103.7	2288.	1103.
Stddev	.49	.4	11.	15.
%RSD	3.901	.3683	.4885	1.376
#1	11.89	103.8	2275.	1085.
#2	12.70	103.9	2297.	1109.
#3	12.76	103.2	2291.	1113.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2895.6	30543.	4963.2
Stddev	4.4	66.	36.2
%RSD	.15180	.21720	.72987
#1	2890.6	30593.	4921.5
#2	2897.3	30468.	4986.3
#3	2898.8	30569.	4982.0

Sample Name: 460-111152-B-5-A@4 Acquired: 3/30/2016 14:55:30 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44780.	43.43	-.0333	145.1	2.756	6589.
Stddev	105.	.58	.3032	.3	.082	29.
%RSD	.2337	1.327	909.8	.2387	2.990	.4452
#1	44890.	43.33	.2874	144.8	2.851	6601.
#2	44780.	42.91	-.3152	145.5	2.716	6610.
#3	44680.	44.05	-.0722	145.1	2.701	6555.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3685	27.33	137.0	54.86	83150.	8270.
Stddev	.0539	.59	.7	.66	167.	40.
%RSD	14.63	2.154	.5322	1.202	.2006	.4825
#1	-.3493	27.36	137.7	54.91	83170.	8254.
#2	-.3267	27.90	137.0	55.50	82980.	8240.
#3	-.4293	26.72	136.2	54.18	83310.	8315.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18530.	1304.	8977.	63.77	83.10	1.353
Stddev	29.	1.	5.	.38	.90	1.288
%RSD	.1543	.0928	.0572	.5910	1.080	95.16
#1	18560.	1304.	8977.	63.39	82.40	1.150
#2	18510.	1305.	8983.	64.14	84.11	2.731
#3	18520.	1303.	8973.	63.78	82.79	.1793

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-111152-B-5-A@4 Acquired: 3/30/2016 14:55:30 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.075	-3.210	126.8	310.0	47.20	6.028
Stddev	3.015	1.231	.9	1.0	.43	.274
%RSD	73.97	38.36	.7150	.3185	.9152	4.550
#1	1.647	-2.787	127.8	310.0	47.32	6.246
#2	3.129	-4.597	126.7	311.1	46.72	5.720
#3	7.450	-2.246	126.0	309.1	47.57	6.118

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	11.20	84.70	2011.	1083.
Stddev	.97	.08	2.	5.
%RSD	8.665	.0990	.0830	.4274
#1	12.11	84.64	2013.	1081.
#2	11.33	84.79	2011.	1080.
#3	10.18	84.67	2009.	1088.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2900.9	30367.	4946.6
Stddev	8.8	120.	21.0
%RSD	.30476	.39521	.42474
#1	2891.7	30229.	4922.4
#2	2901.9	30437.	4960.5
#3	2909.3	30436.	4956.8

Sample Name: 460-111152-B-6-A@4 Acquired: 3/30/2016 14:59:41 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13010.	87.60	.8646	403.5	1.351	6157.
Stddev	61.	2.61	.3179	.6	.060	46.
%RSD	.4653	2.980	36.76	.1437	4.465	.7504

#1	13010.	90.43	1.044	402.9	1.316	6104.
#2	12950.	85.29	1.053	403.6	1.317	6181.
#3	13070.	87.08	.4976	404.1	1.421	6186.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.184	68.50	150.3	6244.	125900.	2585.
Stddev	.073	.13	1.4	15.	748.	6.
%RSD	3.345	.1902	.9201	.2422	.5942	.2300

#1	2.268	68.53	148.7	6233.	125000.	2588.
#2	2.155	68.36	151.3	6237.	126100.	2589.
#3	2.130	68.61	150.9	6261.	126500.	2578.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5499.	725.9	1812.	134.3	607.2	19.90
Stddev	32.	3.6	11.	.5	1.2	.49
%RSD	.5774	.5010	.5955	.3399	.2039	2.441

#1	5462.	722.2	1804.	134.2	605.8	19.51
#2	5513.	726.2	1808.	133.9	608.0	19.74
#3	5520.	729.4	1824.	134.8	607.9	20.44

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111152-B-6-A@4 Acquired: 3/30/2016 14:59:41 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.570	-2.441	39.66	4825.	10.16	615.4
Stddev	1.786	1.762	.45	11.	.76	1.8
%RSD	50.02	72.18	1.131	.2296	7.494	.2861
#1	4.240	-2.537	39.15	4815.	9.305	614.2
#2	4.925	-.6333	39.96	4823.	10.77	614.6
#3	1.546	-4.153	39.89	4837.	10.41	617.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	112.2	63.97	721.0	379.7
Stddev	.7	.17	3.3	8.8
%RSD	.6521	.2607	.4593	2.314
#1	111.5	63.78	717.6	370.2
#2	112.0	64.06	721.2	387.5
#3	113.0	64.08	724.2	381.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2823.2	29667.	4867.2
Stddev	2.2	170.	27.2
%RSD	.07636	.57231	.55826
#1	2825.0	29840.	4887.8
#2	2823.9	29662.	4877.3
#3	2820.8	29500.	4836.4

Sample Name: 460-111152-B-8-A@4 Acquired: 3/30/2016 15:03:49 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42980.	35.06	.1938	148.6	2.671	6854.
Stddev	155.	1.15	.2455	.4	.102	43.
%RSD	.3605	3.289	126.7	.2639	3.839	.6319
#1	43160.	34.31	.0506	148.4	2.788	6804.
#2	42910.	34.49	.0535	148.3	2.630	6875.
#3	42880.	36.39	.4773	149.0	2.595	6882.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1772	26.08	131.0	81.83	80230.	8041.
Stddev	.0934	.07	1.3	.22	296.	25.
%RSD	52.72	.2805	1.015	.2705	.3695	.3097
#1	-.1721	26.16	129.5	81.94	79920.	8023.
#2	-.2731	26.03	131.7	81.97	80280.	8070.
#3	-.0865	26.04	131.8	81.57	80500.	8030.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17420.	1314.	8333.	61.37	83.45	-.9563
Stddev	64.	7.	30.	.69	.56	1.078
%RSD	.3665	.5162	.3548	1.127	.6672	112.7
#1	17350.	1307.	8365.	61.06	84.07	.2847
#2	17470.	1319.	8308.	60.89	82.99	-1.492
#3	17440.	1317.	8324.	62.16	83.29	-1.661

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111152-B-8-A@4 Acquired: 3/30/2016 15:03:49 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.127	-3.958	121.2	433.6	51.98	7.020
Stddev	5.098	1.006	1.1	1.2	.44	.071
%RSD	123.5	25.40	.8687	.2703	.8375	1.011
#1	9.998	-3.395	120.4	432.9	52.07	6.949
#2	1.569	-3.361	120.8	435.0	51.51	7.091
#3	.8145	-5.120	122.4	433.1	52.37	7.020

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	11.20	80.44	1884.	1114.
Stddev	.50	.09	1.	28.
%RSD	4.461	.1067	.0427	2.509
#1	10.76	80.34	1883.	1107.
#2	11.74	80.51	1884.	1090.
#3	11.11	80.46	1885.	1145.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2886.2	30263.	4935.3
Stddev	20.4	61.	68.5
%RSD	.70534	.20198	1.3876
#1	2865.2	30287.	4857.2
#2	2887.4	30193.	4963.3
#3	2905.9	30307.	4985.3

Sample Name: CCV Acquired: 3/30/2016 15:08:00 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	125900.	2510.	1282.	10260.	984.3	127600.
Stddev	660.	10.	1.	40.	4.3	37.
%RSD	.5243	.3788	.0788	.3898	.4365	.0294

#1	125200.	2501.	1282.	10220.	980.8	127500.
#2	126000.	2508.	1281.	10270.	983.1	127600.
#3	126500.	2520.	1283.	10300.	989.1	127500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1266.	2507.	5166.	12490.	105500.	48620.
Stddev	4.	7.	5.	12.	76.	233.
%RSD	.3377	.2672	.1017	.0976	.0724	.4792

#1	1261.	2500.	5163.	12490.	105500.	48400.
#2	1268.	2509.	5163.	12490.	105400.	48590.
#3	1268.	2513.	5172.	12510.	105400.	48860.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	128600.	5113.	124800.	2565.	7775.	975.0
Stddev	161.	3.	554.	6.	24.	3.4
%RSD	.1255	.0676	.4438	.2196	.3045	.3498

#1	128600.	5113.	124200.	2558.	7750.	971.1
#2	128400.	5110.	124900.	2566.	7779.	976.6
#3	128700.	5117.	125300.	2569.	7796.	977.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/30/2016 15:08:00 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2519.	2523.	2484.	2498.	1016.	2521.
Stddev	14.	12.	1.	13.	3.	11.
%RSD	.5433	.4806	.0367	.5295	.3134	.4409

#1	2526.	2509.	2483.	2484.	1016.	2512.
#2	2503.	2532.	2484.	2510.	1013.	2519.
#3	2527.	2527.	2484.	2498.	1020.	2533.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1019.	4943.	10430.	9657.
Stddev	3.	25.	28.	116.
%RSD	.3395	.5113	.2704	1.203

#1	1015.	4918.	10400.	9553.
#2	1021.	4943.	10460.	9782.
#3	1021.	4968.	10420.	9635.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2576.8	27373.	4606.2
Stddev	16.9	162.	39.2
%RSD	.65683	.59069	.85120

#1	2594.2	27439.	4629.2
#2	2560.4	27189.	4628.5
#3	2575.8	27491.	4561.0

Sample Name: CCVL Acquired: 3/30/2016 15:16:27 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	221.8	16.15	9.853	216.1	1.974	5237.
Stddev	11.1	1.25	.232	.5	.043	11.
%RSD	4.979	7.723	2.350	.2485	2.153	.2093

#1	216.0	14.75	9.959	216.2	1.935	5224.
#2	234.6	17.14	9.588	215.5	2.019	5240.
#3	214.9	16.56	10.01	216.5	1.967	5245.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.204	53.94	10.81	22.02	171.3	4786.
Stddev	.114	.13	.37	.37	11.0	17.
%RSD	2.709	.2485	3.449	1.680	6.416	.3516

#1	4.171	53.88	10.82	21.72	182.9	4768.
#2	4.331	53.84	11.17	21.90	170.0	4789.
#3	4.110	54.09	10.43	22.43	161.0	4801.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5240.	16.55	4977.	43.46	12.59	18.62
Stddev	9.	.05	8.	.44	.50	.92
%RSD	.1665	.2864	.1672	1.015	3.933	4.940

#1	5238.	16.50	4984.	43.03	12.04	18.55
#2	5250.	16.57	4979.	43.43	12.74	19.57
#3	5234.	16.59	4968.	43.91	12.99	17.74

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/30/2016 15:16:27 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.47	20.04	50.63	31.70	53.05	20.53
Stddev	.99	1.40	.36	.35	.69	.26
%RSD	4.848	6.990	.7161	1.106	1.291	1.274
#1	19.38	19.20	50.70	31.51	53.43	20.54
#2	21.33	21.66	50.23	32.11	52.26	20.79
#3	20.69	19.26	50.95	31.49	53.46	20.26

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	52.47	20.60	22.59	F -5.714
Stddev	.63	.20	.18	25.16
%RSD	1.195	.9889	.7769	440.3
#1	52.69	20.79	22.51	-34.72
#2	51.76	20.61	22.79	7.393
#3	52.96	20.39	22.47	10.19

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2817.2	29130.	4751.4
Stddev	14.4	127.	6.5
%RSD	.50974	.43440	.13740
#1	2801.6	28984.	4751.4
#2	2820.4	29205.	4758.0
#3	2829.8	29202.	4744.9

Sample Name: 460-111152-B-10-A@4 Acquired: 3/30/2016 15:24:55 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34690.	29.95	.3660	172.4	2.275	9075.
Stddev	36.	1.30	.7257	.3	.073	44.
%RSD	.1044	4.338	198.3	.1639	3.224	.4902
#1	34650.	29.18	.7900	172.7	2.344	9023.
#2	34700.	31.45	-.4720	172.3	2.198	9099.
#3	34720.	29.21	.7799	172.1	2.282	9102.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0127	22.42	113.4	221.7	61820.	5726.
Stddev	.0158	.06	.3	.7	122.	31.
%RSD	124.6	.2776	.2942	.2996	.1969	.5459
#1	.0005	22.45	113.3	220.9	61680.	5702.
#2	.0306	22.47	113.8	221.8	61860.	5761.
#3	.0070	22.35	113.1	222.2	61910.	5714.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11990.	658.4	1523.	54.62	111.0	.0260
Stddev	32.	2.3	10.	.36	.4	1.701
%RSD	.2667	.3469	.6663	.6663	.3185	6553.
#1	11960.	655.8	1511.	54.32	111.4	1.926
#2	11980.	659.8	1525.	54.51	110.8	-.4913
#3	12020.	659.7	1531.	55.02	110.8	-1.356

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111152-B-10-A@4 Acquired: 3/30/2016 15:24:55 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.515	-3.645	99.04	610.0	29.71	15.55
Stddev	3.629	.549	.62	1.4	.46	.24
%RSD	239.6	15.07	.6284	.2303	1.546	1.575
#1	5.685	-3.806	98.38	609.1	29.24	15.30
#2	-.2170	-3.033	99.13	611.6	29.72	15.56
#3	-.9242	-4.095	99.62	609.3	30.16	15.79

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	12.76	70.48	1587.	1008.
Stddev	.40	.23	.	14.
%RSD	3.117	.3225	.0161	1.376
#1	12.44	70.69	1588.	994.9
#2	12.64	70.24	1587.	1006.
#3	13.20	70.52	1587.	1022.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2909.2	29979.	4901.8
Stddev	9.3	96.	17.1
%RSD	.31836	.32082	.34860
#1	2901.6	30089.	4895.5
#2	2906.5	29930.	4921.1
#3	2919.5	29917.	4888.8

Sample Name: 460-110953-A-10-A@4 Acquired: 3/30/2016 15:29:06 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37540.	9.155	-.1475	157.7	2.081	1975.
Stddev	178.	.886	.4601	.3	.069	10.
%RSD	.4740	9.681	311.8	.1953	3.313	.4911
#1	37710.	8.600	-.3600	158.0	2.015	1966.
#2	37550.	8.688	.3803	157.6	2.152	1974.
#3	37350.	10.18	-.4630	157.4	2.075	1985.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.9698	21.23	47.51	82.92	63190.	2393.
Stddev	.1386	.07	.48	.64	53.	37.
%RSD	14.30	.3428	1.018	.7759	.0833	1.537
#1	-.9423	21.15	47.88	83.36	63250.	2435.
#2	-.8469	21.26	46.96	82.18	63160.	2364.
#3	-1.120	21.28	47.68	83.22	63150.	2382.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7592.	1151.	1002.	42.00	89.02	.6081
Stddev	16.	1.	9.	.19	.16	.2322
%RSD	.2080	.0886	.8512	.4504	.1820	38.18
#1	7576.	1150.	996.9	42.02	89.18	.8762
#2	7594.	1152.	997.5	42.18	88.86	.4698
#3	7607.	1152.	1012.	41.80	89.02	.4784

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110953-A-10-A@4 Acquired: 3/30/2016 15:29:06 Type: Unk
 Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.564	-2.674	63.65	119.9	8.064	1.250
Stddev	2.310	1.840	.37	.3	.937	.306
%RSD	147.7	68.81	.5822	.2830	11.62	24.46
#1	.7274	-4.005	63.44	120.2	9.122	1.392
#2	-.2118	-.5744	63.44	119.6	7.736	1.459
#3	4.176	-3.443	64.08	119.9	7.336	.8991

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	12.06	18.51	797.3	617.9
Stddev	.15	.12	1.5	25.2
%RSD	1.224	.6340	.1931	4.078
#1	12.21	18.64	799.0	599.4
#2	11.91	18.48	796.8	607.7
#3	12.06	18.42	796.1	646.6

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2920.5	29913.	4925.8
Stddev	10.3	148.	12.3
%RSD	.35166	.49429	.24969
#1	2909.5	29753.	4912.5
#2	2922.4	30045.	4936.8
#3	2929.7	29940.	4928.1

Sample Name: 460-110953-F-30-A@4 Acquired: 3/30/2016 15:37:31 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39710.	7.090	.1559	226.7	2.081	6934.
Stddev	58.	.639	.5284	.4	.058	22.
%RSD	.1468	9.012	339.0	.1807	2.785	.3217
#1	39650.	6.790	.2730	226.3	2.035	6916.
#2	39740.	7.824	.6159	226.6	2.146	6928.
#3	39760.	6.657	-.4213	227.1	2.063	6959.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.9763	22.25	55.69	90.61	66760.	3424.
Stddev	.1334	.22	.72	.40	131.	20.
%RSD	13.66	.9893	1.302	.4449	.1958	.5770
#1	-.8240	22.11	55.13	90.24	66890.	3413.
#2	-1.072	22.14	55.44	90.55	66630.	3413.
#3	-1.033	22.51	56.51	91.04	66770.	3447.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9761.	1824.	3826.	44.96	36.25	-.1757
Stddev	19.	2.	13.	.45	.59	.7562
%RSD	.1902	.1247	.3429	1.008	1.638	430.3
#1	9781.	1822.	3834.	45.13	36.88	-.0025
#2	9745.	1827.	3833.	44.45	35.70	.4788
#3	9756.	1824.	3811.	45.31	36.18	-1.004

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110953-F-30-A@4 Acquired: 3/30/2016 15:37:31 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.596	-2.428	74.90	116.9	13.46	1.232
Stddev	3.460	.229	.24	.2	.26	.111
%RSD	216.9	9.436	.3242	.1325	1.953	9.016
#1	2.214	-2.604	74.66	117.1	13.76	1.196
#2	-2.456	-2.169	75.14	116.9	13.38	1.144
#3	-4.545	-2.511	74.91	116.7	13.25	1.357

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.261	39.00	999.1	703.6
Stddev	.462	.07	1.3	12.3
%RSD	7.382	.1837	.1302	1.752
#1	6.079	39.08	1001.	717.3
#2	6.786	38.94	998.0	693.5
#3	5.917	38.98	998.7	700.0

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2863.0	29843.	4846.8
Stddev	10.0	84.	24.4
%RSD	.34948	.28297	.50386
#1	2856.0	29749.	4871.2
#2	2858.6	29866.	4846.7
#3	2874.5	29913.	4822.3

Sample Name: 460-110790-I-2-B@4 Acquired: 3/30/2016 15:41:44 Type: Unk

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39700.	58.97	.4711	431.9	2.598	24170.
Stddev	89.	.76	.1652	.2	.102	83.
%RSD	.2247	1.294	35.06	.0490	3.914	.3422
#1	39800.	58.80	.6557	432.1	2.487	24120.
#2	39620.	59.80	.3371	432.1	2.619	24260.
#3	39670.	58.30	.4206	431.7	2.687	24110.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4772	57.59	212.8	186.5	108400.	6229.
Stddev	.1160	.15	.6	.5	213.	1.
%RSD	24.30	.2675	.2831	.2531	.1965	.0205
#1	-.4853	57.74	213.0	186.4	108300.	6230.
#2	-.3574	57.59	213.3	187.1	108700.	6230.
#3	-.5890	57.44	212.2	186.1	108300.	6228.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21460.	1457.	2957.	887.8	565.6	1.479
Stddev	62.	4.	2.	.7	1.1	.849
%RSD	.2892	.2931	.0565	.0831	.1858	57.39
#1	21430.	1454.	2957.	887.5	565.9	2.317
#2	21530.	1462.	2955.	887.2	564.4	.6202
#3	21420.	1455.	2959.	888.6	566.5	1.499

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110790-I-2-B@4 Acquired: 3/30/2016 15:41:44 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.059	-3.694	105.6	610.9	48.11	5.480
Stddev	3.429	.959	.2	2.1	.33	.099
%RSD	323.8	25.97	.2303	.3490	.6762	1.798
#1	-2.090	-4.800	105.3	611.5	47.85	5.504
#2	4.712	-3.089	105.8	608.6	47.99	5.564
#3	.5553	-3.194	105.7	612.7	48.47	5.372

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	27.44	113.6	968.8	778.6
Stddev	.60	.3	.8	19.2
%RSD	2.192	.2674	.0782	2.465
#1	27.94	113.8	968.8	784.3
#2	26.77	113.3	969.5	757.2
#3	27.61	113.8	968.0	794.3

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2888.2	30420.	4942.3
Stddev	8.4	101.	44.2
%RSD	.28993	.33103	.89356
#1	2881.9	30436.	4911.4
#2	2897.7	30312.	4922.7
#3	2885.0	30511.	4992.9

Sample Name: 460-110790-F-4-B@4 Acquired: 3/30/2016 15:45:52 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44970.	51.19	1.867	906.1	3.179	45100.
Stddev	162.	.37	.238	1.7	.120	213.
%RSD	.3595	.7144	12.74	.1854	3.772	.4714

#1	44950.	51.34	1.651	904.5	3.316	44860.
#2	45150.	50.77	1.828	905.9	3.124	45270.
#3	44830.	51.46	2.121	907.8	3.096	45170.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22.82	37.42	153.5	390.2	102200.	6236.
Stddev	.07	.15	1.4	1.3	327.	34.
%RSD	.3145	.3938	.9330	.3215	.3202	.5400

#1	22.84	37.54	151.9	391.3	102000.	6274.
#2	22.89	37.26	153.9	390.6	102600.	6210.
#3	22.75	37.48	154.7	388.8	102100.	6224.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23930.	1382.	3988.	136.2	4120.	105.3
Stddev	116.	4.	11.	.5	8.	.7
%RSD	.4857	.3123	.2701	.3823	.1883	.6896

#1	23840.	1377.	4000.	135.9	4111.	106.0
#2	24060.	1384.	3984.	136.8	4126.	104.6
#3	23890.	1384.	3979.	136.0	4124.	105.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110790-F-4-B@4 Acquired: 3/30/2016 15:45:52 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8.712	-3.289	171.6	1150.	52.53	7.724
Stddev	.389	.355	.8	2.	.11	.199
%RSD	4.459	10.79	.4779	.1974	.2094	2.579
#1	8.973	-3.394	171.1	1147.	52.57	7.524
#2	8.898	-3.580	171.2	1152.	52.60	7.922
#3	8.266	-2.894	172.6	1150.	52.40	7.726

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	122.7	192.2	2068.	821.6
Stddev	.7	.3	5.	13.9
%RSD	.5896	.1436	.2284	1.695
#1	122.8	192.4	2064.	821.7
#2	123.3	192.4	2073.	835.4
#3	121.9	191.9	2066.	807.6

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2900.3	30159.	4963.7
Stddev	5.6	71.	20.6
%RSD	.19435	.23409	.41455
#1	2906.6	30127.	4944.3
#2	2895.6	30110.	4961.6
#3	2898.8	30240.	4985.3

Sample Name: 460-110795-B-1-C@4 Acquired: 3/30/2016 15:50:01 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17440.	6.101	3.419	1138.	.9045	32940.
Stddev	81.	.576	.139	3.	.1368	242.
%RSD	.4626	9.435	4.067	.2670	15.13	.7344
#1	17380.	5.803	3.286	1135.	.8604	32940.
#2	17410.	5.735	3.408	1138.	1.058	32700.
#3	17530.	6.764	3.563	1141.	.7951	33180.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.999	7.194	91.19	619.4	70070.	1708.
Stddev	.097	.008	.23	1.3	304.	12.
%RSD	4.847	.1117	.2572	.2158	.4338	.6864
#1	2.063	7.185	91.08	617.9	69920.	1722.
#2	2.047	7.201	91.02	620.5	69870.	1701.
#3	1.888	7.195	91.45	619.6	70420.	1701.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8550.	657.1	803.0	38.63	82.34	1.872
Stddev	49.	3.4	8.4	.09	.52	.878
%RSD	.5679	.5232	1.043	.2299	.6315	46.91
#1	8549.	656.8	793.5	38.55	82.54	1.290
#2	8502.	653.8	809.4	38.72	82.73	2.883
#3	8599.	660.7	806.0	38.62	81.75	1.445

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110795-B-1-C@4 Acquired: 3/30/2016 15:50:01 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.56	-2.407	28.61	1518.	14.32	16.15
Stddev	2.22	.197	.45	6.	.48	.18
%RSD	21.04	8.193	1.562	.4020	3.338	1.101
#1	8.046	-2.500	28.70	1512.	14.35	16.33
#2	12.27	-2.540	28.12	1518.	13.82	15.98
#3	11.35	-2.180	29.00	1525.	14.78	16.13

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	44.68	221.9	205.4	1358.
Stddev	.85	.6	1.0	21.
%RSD	1.898	.2763	.4706	1.575
#1	43.71	222.5	204.3	1335.
#2	45.28	221.8	205.7	1377.
#3	45.05	221.3	206.2	1364.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2791.4	29443.	4804.4
Stddev	4.1	269.	12.8
%RSD	.14640	.91446	.26726
#1	2787.1	29246.	4795.9
#2	2792.1	29750.	4819.2
#3	2795.2	29334.	4798.2

Sample Name: 460-110819-D-9-B@4 Acquired: 3/30/2016 15:58:29 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37360.	7.107	-4678	232.3	1.512	4597.
Stddev	118.	.849	.4328	1.2	.119	32.
%RSD	.3162	11.95	92.54	.5117	7.893	.6871
#1	37480.	7.104	-.5768	231.9	1.376	4561.
#2	37240.	7.958	-.8356	231.4	1.602	4618.
#3	37360.	6.259	.0092	233.6	1.556	4613.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7772	14.96	57.67	18.89	53510.	2009.
Stddev	.0336	.06	1.08	.49	351.	50.
%RSD	4.318	.3795	1.876	2.600	.6557	2.487
#1	-.7390	14.90	56.52	19.10	53180.	2053.
#2	-.7907	14.97	57.84	19.23	53460.	2020.
#3	-.8020	15.01	58.67	18.32	53880.	1955.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5174.	799.8	4507.	31.18	36.40	.9105
Stddev	40.	2.4	15.	.38	1.03	.6684
%RSD	.7685	.2942	.3241	1.214	2.841	73.41
#1	5132.	797.1	4516.	30.92	35.95	.1412
#2	5180.	800.8	4491.	31.01	35.67	1.349
#3	5211.	801.6	4516.	31.62	37.59	1.241

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110819-D-9-B@4 Acquired: 3/30/2016 15:58:29 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.0536	-2.383	79.11	94.81	7.358	1.659
Stddev	2.211	2.995	.87	.55	.263	.170
%RSD	4129.	125.7	1.104	.5850	3.572	10.26
#1	-0.8522	-5.753	78.10	94.17	7.468	1.604
#2	2.446	-0.0281	79.57	95.07	7.548	1.522
#3	-1.755	-1.368	79.66	95.18	7.058	1.849

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.471	39.13	614.5	775.0
Stddev	.496	.11	3.9	3.0
%RSD	7.666	.2727	.6417	.3854
#1	6.136	39.25	610.0	778.1
#2	7.041	39.04	615.7	772.1
#3	6.237	39.12	617.6	774.8

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2820.5	29533.	4819.1
Stddev	15.9	63.	28.1
%RSD	.56319	.21370	.58415
#1	2810.5	29550.	4790.4
#2	2838.8	29463.	4846.7
#3	2812.1	29585.	4820.2

Sample Name: CCB Acquired: 3/30/2016 16:06:51 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	143.4	1.014	-.5453	.1284	.9786	-14.92
Stddev	262.7	1.940	.2245	.0877	1.460	2.66
%RSD	183.2	191.3	41.16	68.31	149.2	17.80

#1	446.8	-.6396	-.7519	.1871	2.664	-11.89
#2	-5.494	.5321	-.5775	.1706	.1679	-16.02
#3	-11.02	3.150	-.3065	.0276	.1041	-16.85

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0967	.0363	.0778	-3.697	-2.334	46.21
Stddev	.0556	.0809	.3076	.259	5.507	99.59
%RSD	57.52	222.8	395.5	6.993	236.0	215.5

#1	-.0347	.0075	-.2117	-3.991	-1.575	161.2
#2	-.1130	-.0262	.0444	-3.593	2.754	-10.20
#3	-.1423	.1277	.4007	-3.506	-8.181	-12.36

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.521	.1048	115.9	-.5916	.5616	.9756
Stddev	3.641	.0253	188.0	.3222	1.348	.7559
%RSD	55.84	24.11	162.2	54.46	240.0	77.49

#1	7.736	.1320	332.9	-.2196	1.281	.1583
#2	9.399	.0820	13.74	-.7806	-.9935	1.650
#3	2.427	.1006	1.153	-.7746	1.397	1.119

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/30/2016 16:06:51 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.844	-.5150	.0876	-.1419	.5113	.5982
Stddev	2.456	2.028	.3817	.1214	.2518	.1759
%RSD	86.36	393.9	435.9	85.57	49.24	29.40
#1	5.290	-2.360	-.2830	-.1840	.2213	.8006
#2	2.863	-.8417	.4796	-.2367	.6744	.5114
#3	.3787	1.657	.0661	-.0050	.6382	.4825

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2709	4.605	.5886	4.480
Stddev	.2994	7.601	.1094	35.76
%RSD	110.5	165.1	18.59	798.2
#1	.0678	13.38	.6714	31.60
#2	-.5003	.3455	.6297	-36.04
#3	-.3803	.0889	.4646	17.89

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2792.3	29372.	4690.5
Stddev	16.4	318.	13.8
%RSD	.58687	1.0820	.29487
#1	2779.0	29018.	4697.1
#2	2810.6	29633.	4674.6
#3	2787.4	29464.	4699.7

Sample Name: CCVL Acquired: 3/30/2016 16:11:15 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	kF 3755.	kF 3.965	sF -.4294	kF .9544	kF 33.93	sF 79.71
Stddev	6499.	.566	.2209	1.502	58.93	96.01
%RSD	173.1	14.27	51.45	157.4	173.7	120.5

#1	k 11260.	k 3.995	s -.5520	k .1265	k 102.0	s 190.6
#2	-9.19	3.385	-.5618	.0485	-.0976	25.41
#3	14.34	4.516	-.1744	2.688	-.0817	23.15

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	200.0	15.00	10.00	200.0	2.000	5000.
Range	30.50%	-30.50%	-30.50%	-30.50%	30.50%	-30.50%

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	kF .4840	kF .4636	sF .9336	sF 4.783	sF 66.40	kF -27430.
Stddev	.0925	.4006	1.882	12.33	139.9	47580.
%RSD	19.10	86.40	201.5	257.7	210.6	173.4

#1	k .4065	k .2792	s 3.105	s 18.87	s 227.9	k -82370.
#2	.4592	.1885	-.0838	-3.994	-16.20	30.0
#3	.5863	.9232	-.2202	-.5321	-12.48	39.6

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	4.000	50.00	10.00	25.00	150.0	5000.
Range	-30.50%	-30.50%	-30.50%	-30.50%	-30.50%	-30.50%

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	sF 44.11	sF 2.461	kF 1930.	kF .1029	kF .4494	kF -1.863
Stddev	74.73	4.493	3381.	.5751	.8978	.713
%RSD	169.4	182.6	175.2	558.9	199.8	38.30

#1	s 130.4	s 7.649	k 5835.	k -.3741	k 1.401	k -2.250
#2	2.894	-.1034	-20.90	-.0587	-.3825	-2.298
#3	-.9453	-.1635	-22.68	.7415	.3295	-1.039

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	5000.	15.00	5000.	40.00	10.00	20.00
Range	-30.50%	-30.50%	-30.50%	-30.50%	-30.50%	-30.50%

Sample Name: CCVL Acquired: 3/30/2016 16:11:15 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	kF -3.364	kF 4.212	sF .9343	kF .0648	kF -1.646	kF .0898
Stddev	.345	1.804	1.643	.2563	.485	.2124
%RSD	10.27	42.85	175.8	395.5	29.47	236.5

#1	k -3.411	k 2.257	s 2.829	k -.0062	k -1.317	k .1133
#2	-3.683	4.564	-.0941	-.1485	-2.203	-.1334
#3	-2.998	5.814	.0682	.3492	-1.417	.2894

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	20.00	20.00	50.00	30.00	50.00	20.00
Range	-30.50%	-30.50%	-30.50%	-30.50%	-30.50%	-30.50%

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	kF -1.343	kF 89.08	sF 4.717	kF -24.03
Stddev	.513	154.1	8.333	2.94
%RSD	38.21	173.0	176.7	12.25

#1	k -1.571	k 267.1	s 14.34	k -23.16
#2	-1.701	.0662	-.0131	-27.31
#3	-.7550	.0970	-.1748	-21.62

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	50.00	20.00	20.00	200.0
Range	-30.50%	30.50%	-30.50%	-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	7131.0	^ *****	7607.1
Stddev	1143.5	----	6983.3
%RSD	16.035	----	91.799

#1	5842.7	^ ----	10.281
#2	8025.9	74109.	9064.1
#3	7524.2	97980.	13747.

Sample Name: CCV Acquired: 3/30/2016 16:18:02 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	119600.	2415.	1226.	9780.	937.3	122700.
Stddev	150.	8.	8.	36.	1.7	849.
%RSD	.1250	.3392	.6229	.3654	.1781	.6923

#1	119800.	2417.	1235.	9790.	939.2	123400.
#2	119500.	2423.	1222.	9810.	936.2	121700.
#3	119500.	2407.	1222.	9740.	936.5	122900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1211.	2397.	4922.	11870.	100800.	46330.
Stddev	3.	5.	33.	38.	747.	35.
%RSD	.2650	.2210	.6631	.3185	.7405	.0764

#1	1212.	2396.	4955.	11910.	101600.	46330.
#2	1212.	2403.	4890.	11880.	100100.	46300.
#3	1207.	2393.	4922.	11830.	100700.	46370.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	123800.	4935.	118600.	2443.	7405.	936.2
Stddev	938.	29.	281.	11.	23.	4.1
%RSD	.7580	.5921	.2368	.4525	.3146	.4358

#1	124800.	4964.	118900.	2448.	7416.	937.7
#2	122900.	4906.	118500.	2451.	7421.	939.4
#3	123600.	4936.	118400.	2430.	7378.	931.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/30/2016 16:18:02 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2417.	2412.	2362.	2395.	967.4	2402.
Stddev	13.	11.	10.	2.	2.9	8.
%RSD	.5321	.4690	.4282	.0916	.3042	.3268
#1	2427.	2413.	2373.	2397.	967.1	2402.
#2	2421.	2422.	2353.	2393.	970.5	2409.
#3	2402.	2400.	2361.	2394.	964.6	2393.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	973.3	4746.	9926.	9129.
Stddev	2.9	7.	101.	28.
%RSD	.2950	.1438	1.015	.3076
#1	975.5	4754.	10040.	9153.
#2	974.3	4741.	9875.	9098.
#3	970.1	4745.	9860.	9136.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2679.5	28003.	4781.9
Stddev	20.0	333.	20.1
%RSD	.74755	1.1895	.42021
#1	2657.1	27649.	4774.8
#2	2685.6	28311.	4804.5
#3	2695.7	28047.	4766.3

Sample Name: CCB Acquired: 3/30/2016 16:21:48 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-8.755	.4514	-.1102	1.090	-.0110	-8.450
Stddev	7.972	.3307	.2141	1.784	.0940	5.458
%RSD	91.05	73.26	194.3	163.7	853.3	64.59
#1	-1.853	.2376	-.1513	3.149	-.1118	-3.190
#2	-6.932	.2843	-.3008	.0028	.0046	-8.074
#3	-17.48	.8324	.1215	.1175	.0742	-14.09

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1245	.0875	.0093	-2.625	-.4590	30.49
Stddev	.2643	.5939	.1856	.371	3.409	14.95
%RSD	212.3	678.3	1989.	14.12	742.8	49.02
#1	.4282	.7668	.2092	-2.204	1.963	46.65
#2	-.0012	-.3334	-.1577	-2.767	1.017	27.65
#3	-.0535	-.1707	-.0235	-2.904	-4.357	17.17

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0418	.1042	-.5935	-.2089	.6426	.2819
Stddev	1.539	.1198	7.793	.4578	.6274	1.451
%RSD	3682.	114.9	1313.	219.2	97.64	514.8
#1	1.720	.1898	-9.540	.2971	1.286	.8388
#2	-.7196	.1556	3.040	-.5946	.0321	1.372
#3	-1.126	-.0326	4.719	-.3291	.6100	-1.365

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/30/2016 16:21:48 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.202	.4991	.1589	.0839	.9901	.7031
Stddev	1.252	1.453	.4617	.5361	.7574	.9185
%RSD	104.1	291.2	290.6	638.8	76.49	130.6
#1	2.644	1.438	.6005	.6406	1.732	1.716
#2	.4005	1.234	.1967	.0399	1.021	.4693
#3	.5614	-1.175	-.3205	-.4288	.2180	-.0759

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.7686	.0056	.6707	7.595
Stddev	.3143	.0759	.2193	9.220
%RSD	40.89	1368.	32.70	121.4
#1	1.112	.0590	.7592	8.499
#2	.6978	-.0814	.8319	-2.044
#3	.4958	.0390	.4210	16.33

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2881.7	29795.	4829.0
Stddev	9.6	154.	21.5
%RSD	.33445	.51733	.44590
#1	2885.6	29786.	4841.7
#2	2888.8	29954.	4841.2
#3	2870.8	29646.	4804.2

Sample Name: CCVL Acquired: 3/30/2016 16:25:47 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	214.5	15.01	9.500	209.9	1.984	5003.
Stddev	6.0	1.46	.240	.3	.116	4.
%RSD	2.791	9.728	2.529	.1626	5.835	.0840

#1	220.8	14.70	9.223	209.8	1.906	5004.
#2	209.0	13.73	9.616	209.6	2.117	4998.
#3	213.6	16.60	9.659	210.3	1.929	5006.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.031	51.99	10.01	20.25	162.2	4631.
Stddev	.100	.09	.34	.24	9.2	1.
%RSD	2.490	.1731	3.372	1.176	5.696	.0284

#1	3.972	51.91	9.763	20.52	165.9	4629.
#2	3.974	51.96	9.874	20.12	151.7	4630.
#3	4.147	52.09	10.40	20.11	169.1	4632.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5028.	15.81	4795.	42.55	9.223	17.42
Stddev	11.	.08	4.	.58	.640	.59
%RSD	.2108	.5085	.0932	1.353	6.941	3.367

#1	5018.	15.74	4800.	41.92	8.497	16.75
#2	5026.	15.81	4791.	43.04	9.466	17.68
#3	5039.	15.90	4795.	42.71	9.707	17.84

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/30/2016 16:25:47 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.74	20.00	49.08	30.35	51.51	19.98
Stddev	3.79	1.21	.76	.34	.27	.05
%RSD	18.25	6.047	1.543	1.118	.5201	.2570

#1	23.32	19.03	48.33	30.73	51.81	19.93
#2	22.51	19.62	49.06	30.07	51.30	20.03
#3	16.40	21.36	49.84	30.25	51.42	19.97

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	51.03	19.71	21.87	F -1.013
Stddev	1.06	.08	.19	11.06
%RSD	2.078	.4168	.8639	1092.

#1	50.85	19.64	21.65	-12.79
#2	50.07	19.69	21.94	9.157
#3	52.17	19.80	22.00	.5974

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2832.8	29573.	4833.1
Stddev	16.2	283.	44.5
%RSD	.57153	.95757	.92130

#1	2814.2	29402.	4803.0
#2	2840.5	29417.	4812.0
#3	2843.6	29899.	4884.2

Sample Name: 460-110953-A-10-A@4 Acquired: 3/30/2016 16:29:41 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	37690.	11.59	.7455	158.6	2.165	1926.
Stddev	121.	1.31	.1479	.6	.079	11.
%RSD	.3211	11.34	19.84	.4026	3.639	.5513
#1	37630.	10.57	.8333	159.0	2.085	1934.
#2	37600.	11.12	.5748	158.9	2.243	1931.
#3	37830.	13.07	.8285	157.9	2.167	1914.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8422	21.14	47.54	81.25	62930.	2369.
Stddev	.0426	.09	.21	.47	383.	13.
%RSD	5.055	.4096	.4503	.5799	.6091	.5624
#1	-.8075	21.23	47.55	81.47	63110.	2373.
#2	-.8294	21.12	47.32	81.57	63190.	2354.
#3	-.8897	21.06	47.75	80.71	62490.	2380.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7468.	1124.	1010.	43.06	76.92	.6799
Stddev	59.	2.	3.	.65	.69	.8603
%RSD	.7902	.1985	.2943	1.513	.8945	126.5
#1	7506.	1126.	1009.	43.71	76.95	1.179
#2	7499.	1125.	1014.	43.05	77.59	-.3135
#3	7400.	1122.	1008.	42.41	76.21	1.174

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-110953-A-10-A@4 Acquired: 3/30/2016 16:29:41 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.221	-3.658	63.89	118.3	8.415	1.501
Stddev	1.169	1.936	.43	.2	.169	.105
%RSD	52.65	52.93	.6687	.2105	2.004	6.993
#1	3.161	-5.246	63.50	118.3	8.608	1.548
#2	2.591	-1.501	64.35	118.6	8.342	1.380
#3	.9115	-4.226	63.82	118.1	8.295	1.574

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	11.52	18.30	803.3	630.5
Stddev	.40	.08	6.3	28.9
%RSD	3.453	.4183	.7875	4.580
#1	11.30	18.27	807.7	655.2
#2	11.98	18.38	806.1	637.6
#3	11.29	18.23	796.0	598.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2856.5	29896.	4908.1
Stddev	8.7	158.	39.4
%RSD	.30396	.53009	.80371
#1	2846.4	29714.	4869.7
#2	2861.5	29973.	4948.5
#3	2861.4	30001.	4906.3

Sample Name: 460-110790-F-4-B@4 Acquired: 3/30/2016 16:44:55 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43350.	50.33	1.947	870.6	3.031	42940.
Stddev	217.	2.64	.121	6.3	.054	256.
%RSD	.5003	5.250	6.205	.7287	1.779	.5953

#1	43220.	47.28	1.873	877.1	2.970	42860.
#2	43600.	51.77	2.086	870.2	3.073	43220.
#3	43240.	51.94	1.882	864.5	3.051	42730.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21.53	35.53	146.6	375.7	98630.	5902.
Stddev	.24	.28	1.0	1.3	621.	28.
%RSD	1.101	.7749	.7013	.3511	.6294	.4769

#1	21.69	35.81	147.5	377.1	98500.	5872.
#2	21.25	35.26	146.9	375.5	99310.	5928.
#3	21.63	35.53	145.5	374.5	98090.	5904.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22970.	1312.	3835.	131.5	3918.	97.98
Stddev	101.	7.	19.	1.4	26.	1.40
%RSD	.4379	.5172	.4888	1.046	.6569	1.428

#1	22960.	1308.	3823.	133.0	3942.	98.40
#2	23080.	1319.	3856.	130.4	3922.	99.12
#3	22880.	1307.	3824.	131.0	3891.	96.41

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110790-F-4-B@4 Acquired: 3/30/2016 16:44:55 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10.38	-1.693	163.7	1094.	51.26	7.237
Stddev	2.75	.950	.8	7.	.97	.213
%RSD	26.45	56.13	.4686	.6164	1.902	2.939
#1	9.020	-2.628	163.6	1098.	52.35	7.402
#2	13.54	-1.722	164.5	1098.	50.48	6.997
#3	8.578	-.7284	162.9	1086.	50.93	7.311

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	117.5	183.6	1996.	766.4
Stddev	.6	.8	9.	6.5
%RSD	.4987	.4488	.4540	.8508
#1	118.0	183.3	1999.	767.3
#2	116.9	184.5	2003.	759.5
#3	117.7	183.0	1986.	772.5

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2908.1	30462.	5051.0
Stddev	8.4	223.	20.3
%RSD	.28799	.73111	.40252
#1	2901.8	30404.	5071.0
#2	2904.9	30274.	5051.6
#3	2917.6	30708.	5030.3

Sample Name: 460-110795-B-1-C@4 Acquired: 3/30/2016 16:48:40 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17010.	5.205	4.342	1113.	.9253	32100.
Stddev	130.	2.081	.640	3.	.0482	104.
%RSD	.7655	39.99	14.73	.3013	5.209	.3248

#1	17140.	3.661	5.060	1115.	.9357	32220.
#2	17010.	7.572	4.133	1115.	.9674	32010.
#3	16880.	4.383	3.832	1109.	.8727	32080.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.872	7.408	88.92	605.6	68830.	1652.
Stddev	.049	.134	.70	3.4	292.	26.
%RSD	2.602	1.815	.7876	.5585	.4240	1.579

#1	1.849	7.265	89.71	608.7	69160.	1646.
#2	1.838	7.532	88.37	605.9	68750.	1680.
#3	1.928	7.426	88.68	602.0	68590.	1629.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8362.	639.3	788.5	37.47	68.80	2.388
Stddev	51.	2.5	3.0	.88	.69	1.607
%RSD	.6107	.3915	.3848	2.338	1.010	67.28

#1	8386.	642.2	792.0	36.49	69.23	.5396
#2	8396.	637.8	787.0	37.76	68.00	3.173
#3	8303.	637.9	786.5	38.17	69.18	3.451

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110795-B-1-C@4 Acquired: 3/30/2016 16:48:40 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12.94	-3.240	27.59	1475.	13.53	16.00
Stddev	2.08	1.841	.30	1.	.75	.08
%RSD	16.07	56.81	1.089	.0656	5.513	.4755
#1	11.29	-1.666	27.61	1476.	14.39	15.98
#2	12.25	-2.790	27.88	1474.	13.03	16.09
#3	15.27	-5.264	27.28	1475.	13.18	15.94

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	43.36	215.3	201.9	1321.
Stddev	.21	2.1	1.1	24.
%RSD	.4801	.9939	.5420	1.809
#1	43.14	217.4	203.1	1296.
#2	43.37	215.4	201.9	1324.
#3	43.56	213.1	200.9	1344.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2815.9	29740.	4894.4
Stddev	3.9	151.	64.3
%RSD	.14026	.50880	1.3140
#1	2811.5	29566.	4820.4
#2	2819.0	29823.	4926.2
#3	2817.3	29832.	4936.7

Sample Name: 460-110953-J-20-A@4 Acquired: 3/30/2016 16:33:31 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	82390.	12.82	.9703	357.9	3.184	6738.
Stddev	92.	2.39	.2737	1.0	.072	49.
%RSD	.1113	18.64	28.20	.2828	2.268	.7207
#1	82340.	12.18	.9962	358.7	3.268	6785.
#2	82330.	15.46	.6846	358.4	3.140	6741.
#3	82490.	10.81	1.230	356.8	3.145	6688.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.9582	28.33	82.58	62.11	82060.	3309.
Stddev	.1818	.17	.52	.74	414.	14.
%RSD	18.97	.6146	.6276	1.196	.5049	.4217
#1	-1.116	28.13	83.11	62.93	82370.	3315.
#2	-.9988	28.44	82.08	61.48	82230.	3319.
#3	-.7595	28.43	82.56	61.93	81590.	3293.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11090.	2194.	8686.	55.43	56.26	-.7969
Stddev	42.	11.	24.	.47	1.51	1.876
%RSD	.3820	.5170	.2749	.8405	2.684	235.5
#1	11130.	2206.	8695.	55.94	56.92	.9327
#2	11090.	2194.	8658.	55.32	57.33	-2.792
#3	11040.	2183.	8703.	55.03	54.54	-.5316

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110953-J-20-A@4 Acquired: 3/30/2016 16:33:31 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.100	-1.377	119.5	153.0	13.97	1.908
Stddev	.683	1.283	1.1	1.1	.19	.075
%RSD	62.09	93.13	.9012	.6976	1.368	3.949
#1	.3642	-2.488	120.2	153.8	14.19	1.943
#2	1.222	-1.671	119.9	153.4	13.83	1.821
#3	1.714	.0269	118.2	151.8	13.90	1.959

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.637	84.08	1313.	744.9
Stddev	.712	.29	4.	9.4
%RSD	9.325	.3399	.3229	1.267
#1	8.347	83.79	1316.	755.4
#2	7.642	84.36	1315.	737.3
#3	6.923	84.08	1308.	741.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	3012.5	31318.	5169.0
Stddev	13.0	238.	10.1
%RSD	.43142	.75867	.19573
#1	2999.2	31104.	5180.1
#2	3013.0	31275.	5166.6
#3	3025.2	31574.	5160.3

Sample Name: 460-110819-C-24-B@4 Acquired: 3/30/2016 17:03:58 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36530.	-1.888	1.856	213.7	1.452	12970.
Stddev	315.	1.403	.319	1.2	.104	25.
%RSD	.8613	74.33	17.18	.5457	7.154	.1948

#1	36820.	-3.486	1.493	212.3	1.570	12980.
#2	36200.	-.8530	2.091	214.6	1.376	12940.
#3	36570.	-1.326	1.984	214.0	1.409	12990.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.370	65.81	139.9	130.5	122400.	950.4
Stddev	.187	.18	.7	.9	533.	16.2
%RSD	13.66	.2727	.5059	.6706	.4352	1.708

#1	-1.388	65.72	140.7	130.0	122500.	965.8
#2	-1.175	65.69	139.5	130.0	121800.	933.5
#3	-1.548	66.02	139.4	131.5	122900.	952.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35110.	4187.	5279.	101.3	42.45	-.3414
Stddev	134.	10.	59.	.4	1.01	.8468
%RSD	.3823	.2455	1.110	.4262	2.385	248.0

#1	35110.	4188.	5323.	101.4	43.58	-.1118
#2	34970.	4176.	5212.	100.8	42.16	.3669
#3	35240.	4196.	5302.	101.6	41.62	-1.279

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110819-C-24-B@4 Acquired: 3/30/2016 17:03:58 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.764	.8729	181.7	197.8	-1.824	.9028
Stddev	2.946	.7220	1.5	.1	.209	.0506
%RSD	78.27	82.72	.8116	.0711	11.46	5.607
#1	.3626	1.069	181.1	197.6	-1.750	.9575
#2	5.504	1.477	180.7	197.9	-1.662	.8934
#3	5.425	.0731	183.4	197.8	-2.060	.8576

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.380	107.7	2643.	306.4
Stddev	.925	.4	12.	6.0
%RSD	38.87	.3998	.4690	1.952
#1	3.413	108.0	2643.	305.7
#2	2.102	107.2	2631.	312.7
#3	1.627	108.0	2655.	300.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2823.6	29307.	4824.1
Stddev	7.4	145.	69.0
%RSD	.26128	.49644	1.4310
#1	2816.5	29139.	4768.9
#2	2822.9	29402.	4802.0
#3	2831.2	29378.	4901.5

Sample Name: CCB Acquired: 3/30/2016 17:11:25 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.566	1.516	-4.408	.2852	.0002	-18.10
Stddev	4.715	.612	.2626	.0711	.0138	2.03
%RSD	84.71	40.38	59.56	24.93	5885.	11.21
#1	8.414	1.307	-.2797	.3628	-.0012	-18.95
#2	8.161	2.206	-.2990	.2696	-.0128	-15.78
#3	.1235	1.037	-.7438	.2232	.0147	-19.56

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0741	.0932	.3110	-4.374	5.383	-3.170
Stddev	.0652	.0772	.2526	.829	1.910	28.13
%RSD	88.09	82.84	81.23	18.94	35.48	887.6
#1	-.0960	.0077	.2058	-3.473	7.443	-17.80
#2	-.1255	.1579	.1280	-4.548	3.673	29.26
#3	-.0007	.1139	.5993	-5.102	5.031	-20.97

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.229	.2205	-.5241	-.2852	.3263	.7346
Stddev	2.840	.0774	17.95	.0743	1.394	.5913
%RSD	67.15	35.13	3425.	26.05	427.4	80.49
#1	7.502	.2636	11.82	-.3492	1.347	1.207
#2	2.422	.2667	7.721	-.2038	-1.262	.0713
#3	2.763	.1310	-21.11	-.3027	.8939	.9259

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/30/2016 17:11:25 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1136	-.4407	-.2510	-.0720	.3975	.5622
Stddev	1.248	1.858	.2180	.1588	.6806	.3751
%RSD	1098.	421.5	86.86	220.5	171.2	66.71
#1	.9069	1.441	-.1475	-.1282	.3968	.9513
#2	-1.505	-.4889	-.1040	-.1951	1.078	.5324
#3	.2574	-2.274	-.5015	.1072	-.2828	.2029

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1645	.2042	.8685	7.030
Stddev	.3889	.0337	.1313	23.34
%RSD	236.5	16.49	15.12	332.0
#1	.5381	.2342	1.016	-10.16
#2	-.2382	.2106	.8245	33.60
#3	.1935	.1678	.7648	-2.356

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2812.3	29706.	4794.5
Stddev	6.7	216.	48.5
%RSD	.23748	.72696	1.0116
#1	2809.8	29457.	4738.6
#2	2819.8	29817.	4826.1
#3	2807.2	29844.	4818.6

Sample Name: 460-110953-F-30-A@4 Acquired: 3/30/2016 16:37:20 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38720.	7.481	.2611	220.5	2.117	6660.
Stddev	197.	1.733	.4839	.5	.072	67.
%RSD	.5080	23.17	185.4	.2075	3.420	1.009
#1	38770.	7.182	.7372	221.0	2.042	6736.
#2	38880.	9.345	-.2302	220.4	2.187	6609.
#3	38500.	5.917	.2761	220.1	2.122	6634.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.9942	21.80	53.39	87.46	64970.	3332.
Stddev	.0854	.12	.85	1.02	287.	9.
%RSD	8.594	.5284	1.596	1.172	.4418	.2643
#1	-.9445	21.89	54.37	88.46	65300.	3321.
#2	-1.093	21.67	52.89	87.50	64830.	3335.
#3	-.9452	21.84	52.91	86.42	64770.	3338.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9453.	1760.	3730.	43.98	30.47	1.032
Stddev	69.	11.	12.	.49	.67	1.343
%RSD	.7318	.6104	.3188	1.118	2.199	130.2
#1	9533.	1772.	3730.	44.45	29.72	1.248
#2	9414.	1751.	3741.	44.03	30.70	-.4067
#3	9411.	1758.	3718.	43.47	31.00	2.253

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110953-F-30-A@4 Acquired: 3/30/2016 16:37:20 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.430	-2.572	73.31	113.5	13.21	1.171
Stddev	2.288	.937	.52	1.0	.15	.228
%RSD	160.0	36.42	.7150	.8674	1.131	19.50
#1	3.810	-1.713	73.17	114.6	13.18	.9344
#2	1.235	-2.431	73.89	112.7	13.09	1.390
#3	-.7536	-3.570	72.87	113.3	13.38	1.189

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	6.826	37.75	973.9	659.3
Stddev	.515	.01	4.6	15.8
%RSD	7.549	.0340	.4702	2.401
#1	7.119	37.75	977.5	655.8
#2	7.129	37.73	975.5	645.5
#3	6.231	37.76	968.8	676.6

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2891.3	30525.	4934.8
Stddev	12.6	315.	44.8
%RSD	.43716	1.0309	.90848
#1	2882.0	30247.	4907.2
#2	2905.7	30867.	4910.6
#3	2886.2	30461.	4986.5

Sample Name: 460-110790-I-2-B@4 Acquired: 3/30/2016 16:41:10 Type: Unk

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	40760.	61.00	1.463	443.2	2.684	24870.
Stddev	209.	.68	.422	2.1	.033	250.
%RSD	.5128	1.122	28.84	.4767	1.226	1.003

#1	40920.	61.76	1.937	445.5	2.722	25070.
#2	40830.	60.42	1.325	442.9	2.667	24960.
#3	40520.	60.84	1.128	441.3	2.664	24590.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7493	58.90	218.7	191.1	112100.	6324.
Stddev	.0572	.61	2.5	1.9	724.	71.
%RSD	7.633	1.040	1.130	.9825	.6457	1.124

#1	-.8098	59.59	220.2	192.6	112600.	6377.
#2	-.7420	58.42	220.0	191.8	112500.	6351.
#3	-.6961	58.70	215.8	189.0	111300.	6243.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22180.	1499.	3026.	908.1	538.7	.4784
Stddev	188.	16.	10.	3.6	2.5	2.240
%RSD	.8483	1.047	.3196	.3915	.4690	468.2

#1	22290.	1510.	3037.	910.8	540.7	-.2038
#2	22290.	1505.	3023.	909.3	539.5	2.980
#3	21970.	1481.	3018.	904.1	535.9	-1.341

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110790-I-2-B@4 Acquired: 3/30/2016 16:41:10 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.426	-.8078	108.7	620.9	49.74	5.632
Stddev	1.660	2.693	.8	5.2	.72	.179
%RSD	37.52	333.4	.7695	.8448	1.450	3.181
#1	5.077	1.880	109.3	625.6	49.71	5.733
#2	2.538	-.7981	109.1	621.7	50.47	5.425
#3	5.662	-3.506	107.8	615.3	49.03	5.737

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	27.25	115.3	1000.	818.3
Stddev	.64	.8	3.	9.5
%RSD	2.350	.6628	.2950	1.160
#1	27.82	115.9	1002.	829.2
#2	27.35	115.4	1002.	811.7
#3	26.56	114.4	996.7	814.0

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2901.0	30368.	5018.5
Stddev	30.1	505.	130.0
%RSD	1.0366	1.6616	2.5898
#1	2869.7	29923.	4916.9
#2	2903.7	30264.	4973.8
#3	2929.7	30916.	5165.0

Sample Name: LCS 460-359536/2-A Acquired: 3/30/2016 17:31:03 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1925.	1866.	48.38	1937.	46.23	19520.
Stddev	3.	13.	.46	13.	.31	100.
%RSD	.1491	.6986	.9431	.6494	.6721	.5118

#1	1926.	1881.	48.82	1951.	46.58	19610.
#2	1927.	1862.	48.42	1935.	46.10	19530.
#3	1922.	1856.	47.91	1926.	46.00	19410.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.35	482.0	202.5	217.9	1055.	F 16530.
Stddev	.33	2.2	1.5	.5	6.	50.
%RSD	.6708	.4571	.7281	.2249	.5560	.3020

#1	49.73	484.4	203.7	218.4	1054.	16570.
#2	49.11	481.5	203.0	217.7	1060.	16550.
#3	49.21	480.1	200.9	217.5	1049.	16470.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value						20000.
Range						-15.00%

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19530.	497.2	18440.	508.2	475.3	450.9
Stddev	89.	2.8	125.	2.2	3.6	1.7
%RSD	.4533	.5709	.6758	.4319	.7669	.3819

#1	19600.	499.4	18580.	510.5	478.5	452.3
#2	19560.	498.2	18400.	507.8	476.0	449.0
#3	19430.	494.0	18340.	506.2	471.3	451.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: LCS 460-359536/2-A Acquired: 3/30/2016 17:31:03 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1959.	2034.	469.8	495.1	506.5	468.1
Stddev	3.	13.	.5	1.5	.8	1.6
%RSD	.1603	.6266	.1121	.3016	.1615	.3346

#1	1962.	2046.	469.8	496.2	507.2	469.9
#2	1956.	2020.	470.3	493.4	505.6	467.0
#3	1959.	2035.	469.2	495.7	506.7	467.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	494.8	457.6	502.6	52.20
Stddev	2.5	1.4	3.2	26.23
%RSD	.5106	.3080	.6292	50.26

#1	497.6	458.5	506.2	82.20
#2	494.0	458.4	501.5	40.83
#3	492.8	456.0	500.2	33.57

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2841.6	29320.	4867.9
Stddev	9.2	118.	38.1
%RSD	.32419	.40282	.78281

#1	2845.4	29430.	4839.1
#2	2848.3	29336.	4911.1
#3	2831.1	29195.	4853.4

Sample Name: 460-111189-F-1-A Acquired: 3/30/2016 17:38:42 Type: Unk

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	183.4	14.35	-3518	130.6	.0109	68550.
Stddev	18.9	1.28	.3739	.5	.0857	191.
%RSD	10.31	8.925	106.3	.3961	785.2	.2785

#1	162.3	12.88	-.7174	130.3	-.0876	68500.
#2	189.1	15.22	.0299	130.4	.0520	68760.
#3	198.8	14.95	-.3680	131.2	.0684	68380.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0049	.2771	-.1412	-2.062	18.27	37970.
Stddev	.0848	.2420	.3538	.116	4.15	234.
%RSD	1713.	87.31	250.6	5.618	22.71	.6158

#1	-.0754	.5560	-.1452	-2.097	13.52	37790.
#2	-.0033	.1530	-.4929	-2.157	20.12	38240.
#3	.0935	.1224	.2146	-1.933	21.18	37890.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	57700.	440.2	F 480100.	-.0682	-1.512	-1.427
Stddev	66.	1.1	8919.	.3995	.421	1.137
%RSD	.1149	.2603	1.858	585.6	27.81	79.69

#1	57650.	439.4	471100.	.0617	-1.217	-1.297
#2	57770.	441.5	489000.	.2502	-1.994	-2.623
#3	57670.	439.6	480100.	-.5165	-1.326	-.3603

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-111189-F-1-A Acquired: 3/30/2016 17:38:42 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.299	.4483	2.682	7.480	397.0	16.72
Stddev	.818	1.253	.258	.477	1.5	.21
%RSD	35.57	279.6	9.606	6.372	.3657	1.260
#1	1.776	-.2535	2.427	8.022	395.5	16.77
#2	3.241	1.895	2.677	7.127	397.2	16.50
#3	1.879	-.2969	2.942	7.290	398.4	16.91

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2685	459.8	5.604	7951.
Stddev	.8352	1.8	.247	29.
%RSD	311.0	.3978	4.400	.3670
#1	.4860	458.0	5.347	7984.
#2	-1.166	461.7	5.626	7937.
#3	-.1257	459.6	5.839	7931.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2569.0	26508.	4521.0
Stddev	10.2	118.	43.7
%RSD	.39563	.44646	.96654
#1	2573.6	26590.	4546.9
#2	2576.0	26372.	4470.5
#3	2557.3	26561.	4545.5

Sample Name: 460-111189-F-1-C MS Acquired: 3/30/2016 17:46:43 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2198.	2050.	53.67	2150.	49.15	91540.
Stddev	19.	18.	.76	13.	.47	297.
%RSD	.8530	.8903	1.422	.6056	.9533	.3248
#1	2220.	2057.	54.46	2155.	48.81	91730.
#2	2185.	2064.	53.62	2160.	48.96	91690.
#3	2190.	2030.	52.94	2135.	49.68	91200.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50.49	493.0	214.1	239.3	1138.	57180.
Stddev	.37	3.5	.2	.1	28.	288.
%RSD	.7380	.7201	.1068	.0558	2.479	.5035
#1	50.67	494.7	214.0	239.1	1115.	57330.
#2	50.74	495.3	214.4	239.3	1170.	56840.
#3	50.06	488.9	213.9	239.4	1129.	57360.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	80760.	967.1	F 514700.	515.1	474.0	490.5
Stddev	305.	1.7	5208.	3.4	2.2	2.3
%RSD	.3770	.1757	1.012	.6654	.4544	.4779
#1	81010.	967.4	513700.	515.9	475.8	492.3
#2	80840.	968.6	510100.	518.1	474.5	491.3
#3	80420.	965.2	520400.	511.4	471.6	487.8

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-111189-F-1-C MS Acquired: 3/30/2016 17:46:43 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2090.	1937.	511.0	518.6	941.6	514.2
Stddev	12.	15.	2.3	4.1	3.4	2.9
%RSD	.5558	.7981	.4564	.7921	.3604	.5677
#1	2092.	1945.	513.5	521.8	944.6	515.9
#2	2101.	1946.	510.7	520.1	942.4	515.8
#3	2078.	1919.	508.8	514.0	937.9	510.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	514.8	952.4	544.1	8344.
Stddev	3.5	5.8	.9	132.
%RSD	.6884	.6072	.1605	1.579
#1	517.0	953.3	543.9	8375.
#2	516.6	946.1	543.4	8456.
#3	510.7	957.6	545.1	8199.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2549.2	26272.	4559.9
Stddev	12.9	120.	20.7
%RSD	.50480	.45674	.45385
#1	2556.8	26379.	4569.7
#2	2534.4	26142.	4573.8
#3	2556.5	26295.	4536.1

Sample Name: 460-110815-A-2-A@4 Acquired: 3/30/2016 16:52:29 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26360.	10.77	.8906	401.6	1.769	29100.
Stddev	94.	1.66	.2756	.9	.091	76.
%RSD	.3575	15.40	30.94	.2294	5.157	.2623
#1	26330.	8.926	.5943	400.6	1.865	29180.
#2	26460.	11.25	1.139	402.4	1.684	29070.
#3	26280.	12.14	.9383	401.8	1.757	29040.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5571	13.74	112.2	109.9	48720.	1273.
Stddev	.0855	.23	.7	.5	63.	18.
%RSD	15.34	1.659	.6585	.4097	.1292	1.415
#1	.6509	13.69	112.7	110.1	48660.	1278.
#2	.5365	13.99	112.5	109.4	48720.	1287.
#3	.4837	13.55	111.3	110.2	48790.	1252.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7501.	2697.	223.8	77.65	754.9	-.4803
Stddev	14.	7.	8.8	.54	3.5	.5058
%RSD	.1832	.2486	3.942	.6982	.4699	105.3
#1	7510.	2704.	227.5	77.78	753.1	.1017
#2	7509.	2697.	213.7	77.06	752.6	-.8133
#3	7485.	2690.	230.2	78.12	759.0	-.7293

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110815-A-2-A@4 Acquired: 3/30/2016 16:52:29 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.886	-1.196	51.41	694.1	6.060	1.937
Stddev	3.516	1.223	.45	2.7	.954	.276
%RSD	186.4	102.3	.8777	.3865	15.75	14.25
#1	1.332	-2.370	51.50	696.1	6.317	2.097
#2	5.647	-1.288	51.82	691.1	5.004	1.618
#3	-1.319	.0708	50.93	695.2	6.860	2.095

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	19.47	112.8	858.2	760.4
Stddev	.62	.3	3.3	35.6
%RSD	3.167	.2648	.3895	4.688
#1	18.87	113.2	854.4	758.0
#2	19.46	112.8	860.0	726.0
#3	20.10	112.6	860.3	797.1

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2811.8	29520.	4835.9
Stddev	15.2	225.	82.1
%RSD	.53887	.76295	1.6982
#1	2795.5	29261.	4741.2
#2	2825.4	29624.	4880.3
#3	2814.5	29674.	4886.3

Sample Name: CCV Acquired: 3/30/2016 17:58:22 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	127300.	2543.	1307.	10420.	979.2	129700.
Stddev	1090.	5.	5.	36.	4.3	269.
%RSD	.8566	.1940	.3909	.3426	.4422	.2075

#1	126000.	2537.	1301.	10380.	974.4	129400.
#2	127800.	2546.	1308.	10440.	982.8	129900.
#3	128000.	2545.	1311.	10430.	980.4	129900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1279.	2523.	5257.	12420.	108100.	48410.
Stddev	2.	3.	16.	32.	409.	317.
%RSD	.1309	.1300	.3011	.2570	.3785	.6543

#1	1279.	2521.	5240.	12380.	107600.	48050.
#2	1281.	2527.	5258.	12440.	108200.	48640.
#3	1278.	2522.	5272.	12440.	108400.	48540.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	130800.	5174.	125300.	2600.	7935.	973.4
Stddev	403.	21.	1000.	7.	22.	4.0
%RSD	.3083	.4004	.7982	.2827	.2747	.4063

#1	130300.	5150.	124200.	2592.	7910.	971.1
#2	131000.	5184.	125900.	2606.	7943.	978.0
#3	131100.	5188.	125900.	2603.	7951.	971.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/30/2016 17:58:22 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2548.	2515.	2492.	2504.	1031.	2543.
Stddev	5.	14.	5.	12.	6.	7.
%RSD	.2151	.5645	.1926	.4602	.6199	.2925
#1	2554.	2528.	2488.	2518.	1023.	2535.
#2	2547.	2500.	2490.	2499.	1034.	2547.
#3	2544.	2518.	2497.	2496.	1035.	2548.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1032.	4944.	10720.	9530.
Stddev	3.	27.	111.	50.
%RSD	.2688	.5529	1.032	.5266
#1	1034.	4913.	10680.	9537.
#2	1029.	4959.	10630.	9476.
#3	1032.	4961.	10840.	9576.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2510.7	26487.	4473.2
Stddev	3.2	69.	44.9
%RSD	.12824	.26231	1.0047
#1	2507.3	26474.	4518.1
#2	2513.7	26562.	4428.2
#3	2511.0	26425.	4473.2

Sample Name: 460-111174-B-1-A Acquired: 3/30/2016 18:10:02 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2834.	2.088	-.2540	64.50	.1592	10200.
Stddev	43.	.967	.7183	.07	.0967	75.
%RSD	1.501	46.32	282.8	.1117	60.75	.7367
#1	2863.	2.644	-.5901	64.58	.1865	10270.
#2	2854.	.9712	-.7426	64.49	.2394	10200.
#3	2785.	2.649	.5708	64.44	.0518	10120.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3538	2.500	8.495	46.54	5806.	1316.
Stddev	.0546	.217	.697	.50	15.	20.
%RSD	15.44	8.669	8.202	1.071	.2648	1.550
#1	.4169	2.260	8.378	46.83	5792.	1336.
#2	.3219	2.681	9.243	45.96	5803.	1318.
#3	.3226	2.559	7.864	46.81	5822.	1295.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2973.	112.8	70610.	7.702	88.35	1.113
Stddev	4.	.4	500.	.108	.41	1.186
%RSD	.1504	.3779	.7085	1.407	.4687	106.5
#1	2976.	113.3	71110.	7.581	87.87	1.422
#2	2968.	112.5	70620.	7.791	88.56	2.115
#3	2974.	112.7	70110.	7.735	88.61	-.1967

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111174-B-1-A Acquired: 3/30/2016 18:10:02 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5902	.3488	13.88	148.6	45.53	1.702
Stddev	2.418	.5034	.11	.3	.29	.076
%RSD	409.8	144.3	.8097	.2132	.6306	4.440
#1	.1488	-.0296	13.82	148.2	45.23	1.789
#2	3.199	.9201	14.01	148.9	45.80	1.667
#3	-1.577	.1558	13.81	148.7	45.58	1.650

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.160	49.25	143.3	6213.
Stddev	.177	.09	.6	105.
%RSD	15.30	.1794	.4337	1.695
#1	.9913	49.29	143.3	6116.
#2	1.145	49.32	142.7	6198.
#3	1.345	49.15	144.0	6325.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2725.8	28333.	4662.1
Stddev	9.4	66.	61.0
%RSD	.34525	.23181	1.3077
#1	2726.4	28269.	4599.0
#2	2716.2	28331.	4666.5
#3	2734.9	28400.	4720.7

Sample Name: 460-111182-D-1-A Acquired: 3/30/2016 18:21:41 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1112.	3.478	-.2006	53.57	-.0132	69930.
Stddev	18.	.216	.3474	.25	.1271	577.
%RSD	1.606	6.199	173.2	.4724	961.7	.8252
#1	1101.	3.235	-.4925	53.86	.0445	70250.
#2	1103.	3.550	-.2930	53.45	.0748	70280.
#3	1133.	3.647	.1836	53.40	-.1589	69260.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2978	.7680	12.85	20.56	1441.	21560.
Stddev	.0865	.2144	.36	.17	8.	48.
%RSD	29.04	27.91	2.819	.8493	.5559	.2238
#1	.2982	.5626	12.72	20.44	1449.	21600.
#2	.3841	.9903	12.58	20.76	1442.	21560.
#3	.2111	.7510	13.26	20.47	1433.	21510.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9403.	42.47	25610.	6.441	37.73	1.689
Stddev	57.	.43	41.	.314	.43	.602
%RSD	.6098	1.018	.1613	4.877	1.151	35.62
#1	9468.	42.95	25630.	6.800	37.59	1.078
#2	9381.	42.34	25630.	6.302	37.39	2.281
#3	9360.	42.12	25560.	6.220	38.22	1.706

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111182-D-1-A Acquired: 3/30/2016 18:21:41 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.173	-.3913	4.031	110.3	154.0	13.60
Stddev	2.057	2.877	.426	1.3	.5	.10
%RSD	175.4	735.1	10.56	1.144	.3062	.7624
#1	.6669	-1.583	3.992	111.6	154.2	13.69
#2	-.7905	-2.481	3.626	110.1	153.5	13.61
#3	-3.394	2.890	4.475	109.1	154.4	13.49

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.8414	707.6	40.96	7400.
Stddev	.8822	1.5	.17	88.
%RSD	104.8	.2105	.4137	1.192
#1	1.108	708.4	40.99	7429.
#2	1.560	708.4	41.11	7469.
#3	-.1432	705.8	40.77	7300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2665.6	27965.	4652.0
Stddev	8.9	127.	36.3
%RSD	.33570	.45519	.77982
#1	2667.3	28075.	4693.2
#2	2655.9	27825.	4624.7
#3	2673.5	27994.	4638.1

Sample Name: 460-110819-D-9-B@4 Acquired: 3/30/2016 16:56:19 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36870.	6.994	.2653	229.4	1.450	4526.
Stddev	128.	2.125	.3317	1.6	.079	20.
%RSD	.3458	30.38	125.0	.7010	5.447	.4330
#1	36960.	8.534	.6459	229.1	1.379	4528.
#2	36920.	4.570	.1114	227.9	1.535	4505.
#3	36720.	7.880	.0386	231.1	1.437	4544.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8803	14.58	56.49	17.82	53330.	1981.
Stddev	.0514	.29	.45	.49	366.	20.
%RSD	5.838	1.992	.8038	2.727	.6872	1.006
#1	-.8493	14.47	56.59	17.94	53400.	2001.
#2	-.8520	14.36	55.99	18.24	52930.	1980.
#3	-.9397	14.91	56.88	17.29	53650.	1961.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5106.	783.9	4446.	31.23	30.91	.5137
Stddev	10.	2.4	18.	.32	1.60	.9216
%RSD	.1887	.3111	.4013	1.031	5.181	179.4
#1	5100.	784.3	4464.	31.15	32.51	.0294
#2	5101.	781.3	4446.	30.96	29.31	-.0647
#3	5118.	786.1	4428.	31.59	30.93	1.577

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110819-D-9-B@4 Acquired: 3/30/2016 16:56:19 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.433	-2.685	77.18	92.67	7.438	1.741
Stddev	3.344	.630	.67	.44	.200	.256
%RSD	75.43	23.48	.8684	.4711	2.688	14.73
#1	.6940	-2.197	77.24	92.30	7.657	1.461
#2	5.468	-3.397	76.48	92.56	7.265	1.797
#3	7.136	-2.461	77.82	93.15	7.393	1.965

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.200	38.33	613.9	753.5
Stddev	.863	.13	4.6	40.1
%RSD	11.98	.3466	.7437	5.320
#1	7.382	38.48	613.9	714.5
#2	6.261	38.24	609.4	751.2
#3	7.957	38.26	618.5	794.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2876.3	30167.	4964.8
Stddev	7.7	189.	18.0
%RSD	.26835	.62707	.36267
#1	2867.4	29959.	4944.2
#2	2880.6	30330.	4973.4
#3	2880.9	30211.	4977.0

Sample Name: MB 460-359535/1-A Acquired: 3/30/2016 18:33:27 Type: QC

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-11.05	1.405	-.7478	-.1741	-.1132	-26.13
Stddev	13.06	.816	.6613	.1703	.0871	3.41
%RSD	118.1	58.07	88.43	97.81	76.96	13.05

#1	-24.76	.8253	-1.487	.0197	-.1100	-29.42
#2	1.241	1.052	-.2115	-.2999	-.0277	-22.62
#3	-9.640	2.338	-.5452	-.2421	-.2018	-26.36

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1486	-.2025	.1172	-4.787	1.086	-11.90
Stddev	.0605	.2793	.4142	.114	6.794	30.38
%RSD	40.73	138.0	353.3	2.385	625.8	255.2

#1	-.0949	.0364	.4863	-4.656	-.4176	-38.27
#2	-.1367	-.5096	.1960	-4.839	8.505	-18.75
#3	-.2142	-.1342	-.3307	-4.865	-4.831	21.32

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4474	-.0529	12.63	-.7052	.0734	.6635
Stddev	1.530	.0221	6.46	.5915	.9864	1.671
%RSD	342.1	41.86	51.15	83.88	1345.	251.8

#1	-2.165	-.0280	17.81	-1.374	-.7956	-1.049
#2	.0515	-.0602	5.393	-.2508	1.146	2.289
#3	.7712	-.0705	14.69	-.4907	-.1299	.7509

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-359535/1-A Acquired: 3/30/2016 18:33:27 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0978	.1709	-.2696	.5104	.7392	-.0714
Stddev	3.479	1.287	.3006	.0377	.1530	.1452
%RSD	3556.	753.5	111.5	7.383	20.70	203.2
#1	-2.932	-1.189	-.3686	.5504	.7092	-.1164
#2	-.6714	.3299	-.5082	.4756	.9050	-.1888
#3	3.897	1.371	.0680	.5052	.6034	.0909

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0071	.0095	.1060	11.68
Stddev	.2258	.0860	.1500	9.60
%RSD	3168.	902.5	141.5	82.22
#1	-.2081	.0681	-.0234	22.15
#2	.2372	-.0891	.0711	3.270
#3	-.0505	.0496	.2704	9.626

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2684.6	27940.	4543.0
Stddev	20.5	244.	56.7
%RSD	.76178	.87236	1.2481
#1	2665.9	27937.	4519.5
#2	2681.5	27698.	4501.9
#3	2706.4	28186.	4607.7

Sample Name: 460-110819-E-17-A@4 Acquired: 3/30/2016 17:00:09 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	61540.	14.85	.4861	666.3	3.580	15280.
Stddev	490.	1.94	.5341	2.6	.045	34.
%RSD	.7960	13.07	109.9	.3967	1.255	.2202

#1	61780.	14.98	.4683	669.3	3.530	15310.
#2	60980.	12.85	-.0389	664.6	3.618	15290.
#3	61870.	16.72	1.029	664.9	3.591	15250.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7400	17.56	91.06	50.59	65270.	2429.
Stddev	.0203	.26	.32	.48	154.	10.
%RSD	2.745	1.484	.3555	.9471	.2360	.4227

#1	-.7634	17.32	91.43	50.10	65450.	2419.
#2	-.7293	17.83	90.94	50.62	65200.	2439.
#3	-.7273	17.53	90.81	51.06	65170.	2429.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	8725.	3098.	3726.	34.58	77.13	.3860
Stddev	10.	5.	26.	.54	.64	1.766
%RSD	.1191	.1638	.6843	1.573	.8342	457.5

#1	8734.	3100.	3744.	34.13	77.83	2.254
#2	8729.	3092.	3697.	34.42	77.00	.1608
#3	8714.	3102.	3738.	35.18	76.56	-1.256

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110819-E-17-A@4 Acquired: 3/30/2016 17:00:09 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8771	-.3266	94.54	120.9	5.615	1.586
Stddev	1.008	.6871	.60	.6	.656	.121
%RSD	114.9	210.4	.6367	.4845	11.68	7.652
#1	.3056	.3976	95.23	121.4	5.042	1.503
#2	.2852	-.9693	94.11	120.8	6.330	1.530
#3	2.041	-.4082	94.29	120.3	5.472	1.726

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	16.87	85.07	827.1	946.2
Stddev	.63	.42	2.5	10.5
%RSD	3.735	.4894	.3011	1.105
#1	17.10	85.40	830.0	953.3
#2	17.36	84.60	825.7	934.2
#3	16.16	85.20	825.7	951.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2958.0	30785.	5108.3
Stddev	21.8	274.	40.7
%RSD	.73816	.89124	.79658
#1	2932.8	30476.	5062.2
#2	2971.6	30879.	5139.5
#3	2969.6	31000.	5123.1

Sample Name: 460-110974-D-1-G DU Acquired: 3/30/2016 18:41:09 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1116.	4.594	-1.1326	56.97	.1088	13900.
Stddev	13.	1.006	.2354	1.57	.1089	52.
%RSD	1.191	21.91	177.5	2.748	100.1	.3721
#1	1130.	4.717	.0672	56.78	.1943	13960.
#2	1104.	5.534	-.3921	58.62	-.0138	13890.
#3	1112.	3.532	-.0729	55.50	.1459	13860.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.137	.1983	2.566	11.12	2120.	2588.
Stddev	.168	.2913	.699	.11	22.	57.
%RSD	14.81	146.9	27.24	.9523	1.020	2.198
#1	1.079	.1315	3.343	11.01	2137.	2523.
#2	1.327	.5172	1.990	11.22	2128.	2629.
#3	1.005	-.0538	2.364	11.13	2096.	2613.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1362.	55.04	F 293400.	2.346	36.03	-.1803
Stddev	8.	.25	5214.	.240	.54	.8465
%RSD	.6154	.4611	1.777	10.25	1.499	469.5
#1	1365.	55.22	299000.	2.507	36.55	-.8358
#2	1368.	55.16	292300.	2.069	36.06	-.4805
#3	1352.	54.75	288700.	2.461	35.47	.7754

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-110974-D-1-G DU Acquired: 3/30/2016 18:41:09 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1930	-1.369	4.015	606.7	77.26	.1050
Stddev	1.866	1.273	.372	1.9	.65	.1623
%RSD	966.9	92.98	9.264	.3112	.8432	154.6
#1	-1.181	.0780	3.877	607.0	77.75	.2659
#2	2.317	-2.316	3.731	608.5	77.51	.1078
#3	-.5565	-1.870	4.436	604.7	76.52	-.0587

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.508	75.42	34.96	1912.
Stddev	.804	.23	8.05	20.
%RSD	53.29	.3018	23.04	1.040
#1	.8921	75.17	43.66	1931.
#2	2.418	75.49	27.77	1891.
#3	1.216	75.60	33.45	1912.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2645.1	27164.	4659.7
Stddev	10.5	166.	27.0
%RSD	.39535	.61148	.57873
#1	2638.8	26981.	4644.6
#2	2639.2	27206.	4643.8
#3	2657.1	27305.	4690.9

Sample Name: 460-110974-D-1-F@5 Acquired: 3/30/2016 18:45:13 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1109.	4.778	-4406	55.97	.1348	13890.
Stddev	12.	1.228	.7993	.08	.1034	69.
%RSD	1.123	25.71	181.4	.1420	76.73	.4966

#1	1123.	4.757	.3473	55.87	.1659	13970.
#2	1098.	3.560	-1.251	56.01	.2191	13860.
#3	1105.	6.016	-4.182	56.01	.0194	13840.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9775	.0506	2.852	11.06	2106.	2597.
Stddev	.1287	.1695	.349	.27	13.	10.
%RSD	13.17	335.2	12.23	2.449	.6205	.3755

#1	.9678	.2231	2.877	10.76	2118.	2590.
#2	.8539	-.1156	2.491	11.30	2092.	2594.
#3	1.111	.0442	3.187	11.11	2109.	2608.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1361.	54.93	F 290300.	2.082	35.48	-.1090
Stddev	8.	.28	3038.	.535	.71	.6885
%RSD	.5799	.5156	1.046	25.70	1.999	631.8

#1	1370.	55.01	293600.	1.715	36.12	.0099
#2	1358.	55.17	289400.	1.835	35.60	-.8492
#3	1355.	54.62	287800.	2.696	34.72	.5123

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-110974-D-1-F@5 Acquired: 3/30/2016 18:45:13 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7346	-.7641	4.047	606.9	75.73	-.0833
Stddev	2.609	.9330	.465	.7	.82	.1987
%RSD	355.1	122.1	11.50	.1156	1.087	238.6
#1	1.662	-1.788	3.514	606.1	75.18	-.3127
#2	-.3531	-.5417	4.255	607.2	75.34	.0287
#3	-3.513	.0375	4.372	607.4	76.68	.0342

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.7385	75.21	31.37	1919.
Stddev	.2710	.20	.87	49.
%RSD	36.69	.2632	2.771	2.549
#1	.4286	75.09	30.64	1883.
#2	.8564	75.10	32.33	1974.
#3	.9307	75.44	31.14	1899.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2650.0	27298.	4670.0
Stddev	2.6	114.	6.4
%RSD	.09660	.41688	.13763
#1	2651.4	27170.	4675.4
#2	2647.1	27339.	4662.9
#3	2651.6	27386.	4671.9

Sample Name: sd 460-110974-D-1-F Acquired: 3/30/2016 19:00:57 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	234.5	2.295	-.5774	10.79	.0316	2644.
Stddev	10.2	.555	.1110	.09	.0687	6.
%RSD	4.347	24.20	19.23	.8129	217.7	.2268
#1	228.3	1.684	-.5786	10.89	.1109	2639.
#2	246.3	2.769	-.4658	10.78	-.0076	2651.
#3	228.9	2.432	-.6878	10.72	-.0086	2642.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1152	.0386	-.1150	-1.633	404.9	483.5
Stddev	.0594	.1478	.1479	.259	7.7	22.4
%RSD	51.52	383.3	128.6	15.85	1.894	4.628
#1	.1836	.0131	-.0411	-1.721	397.7	466.0
#2	.0772	-.0949	-.2853	-1.342	413.0	508.7
#3	.0849	.1974	-.0187	-1.836	404.2	475.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	270.0	10.49	57030.	.2793	6.986	-.1354
Stddev	1.6	.11	51.	.2977	1.577	.6998
%RSD	.5996	1.069	.0887	106.6	22.58	516.7
#1	268.9	10.46	57060.	.5874	5.198	.0385
#2	271.9	10.61	56970.	.2574	8.182	.4610
#3	269.4	10.39	57060.	-.0068	7.577	-.9058

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-110974-D-1-F Acquired: 3/30/2016 19:00:57 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2992	-.5642	.4565	116.0	15.45	-.1567
Stddev	1.690	1.932	.1831	.7	.26	.2381
%RSD	564.8	342.4	40.10	.5659	1.676	151.9
#1	1.415	-2.724	.3355	116.1	15.39	-.4315
#2	-1.645	.9988	.6671	116.6	15.23	-.0268
#3	1.127	.0325	.3668	115.3	15.74	-.0118

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2628	14.50	5.525	362.9
Stddev	.2595	.03	.367	23.1
%RSD	98.73	.2105	6.645	6.363
#1	-.4761	14.47	5.412	351.6
#2	.0261	14.50	5.227	347.6
#3	-.3386	14.53	5.935	389.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2706.1	28355.	4635.8
Stddev	8.7	159.	18.8
%RSD	.32041	.56117	.40575
#1	2702.5	28539.	4657.4
#2	2699.9	28259.	4626.8
#3	2716.0	28267.	4623.2

Sample Name: pds 460-110974-D-1-F Acquired: 3/30/2016 19:09:27 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3180.	1990.	51.41	2090.	49.70	33760.
Stddev	34.	7.	.28	11.	.07	291.
%RSD	1.065	.3628	.5426	.5225	.1400	.8629
#1	3143.	1993.	51.09	2099.	49.64	33430.
#2	3208.	1995.	51.61	2093.	49.78	33870.
#3	3190.	1981.	51.52	2078.	49.70	33990.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51.85	501.1	217.7	251.4	3193.	20610.
Stddev	.40	1.9	3.2	1.6	57.	98.
%RSD	.7722	.3727	1.481	.6199	1.791	.4742
#1	51.93	502.4	214.0	249.7	3127.	20500.
#2	52.20	502.0	219.2	252.8	3224.	20680.
#3	51.41	499.0	219.9	251.8	3227.	20650.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20820.	561.7	F 316900.	525.3	522.8	474.7
Stddev	145.	4.4	1942.	3.0	2.3	3.8
%RSD	.6956	.7884	.6129	.5750	.4431	.8075
#1	20650.	557.4	318700.	527.5	524.4	476.8
#2	20900.	561.6	317300.	526.6	523.9	476.9
#3	20910.	566.3	314800.	521.9	520.2	470.3

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: pds 460-110974-D-1-F Acquired: 3/30/2016 19:09:27 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2066.	1997.	510.2	1102.	602.5	504.1
Stddev	6.	9.	4.7	4.	5.2	2.7
%RSD	.2803	.4634	.9163	.4054	.8639	.5293
#1	2072.	1995.	504.9	1098.	607.3	505.8
#2	2065.	2007.	511.9	1107.	603.3	505.5
#3	2061.	1988.	513.7	1100.	597.0	501.1

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	515.7	558.3	565.9	2017.
Stddev	2.8	1.4	3.2	17.
%RSD	.5387	.2523	.5709	.8246
#1	515.9	557.3	563.2	2022.
#2	518.3	559.9	569.5	2031.
#3	512.8	557.7	565.1	1998.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2607.4	27339.	4569.1
Stddev	20.9	189.	58.0
%RSD	.80339	.69300	1.2699
#1	2594.0	27558.	4617.3
#2	2596.8	27232.	4585.4
#3	2631.6	27227.	4504.7

Sample Name: CCV Acquired: 3/30/2016 17:07:44 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	122000.	2441.	1253.	9988.	944.0	123400.
Stddev	85.	7.	2.	23.	1.1	449.
%RSD	.0695	.2771	.1356	.2294	.1181	.3638

#1	122100.	2449.	1251.	9992.	942.7	123200.
#2	121900.	2439.	1252.	10010.	944.5	123100.
#3	121900.	2435.	1254.	9964.	944.7	123900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1227.	2428.	5021.	12060.	102800.	46630.
Stddev	3.	5.	20.	25.	385.	88.
%RSD	.2741	.2218	.4007	.2039	.3744	.1884

#1	1227.	2430.	5005.	12030.	102500.	46550.
#2	1230.	2432.	5015.	12080.	102700.	46730.
#3	1224.	2422.	5044.	12050.	103300.	46620.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124800.	4936.	120800.	2495.	7584.	942.5
Stddev	490.	16.	103.	4.	23.	2.0
%RSD	.3924	.3191	.0856	.1569	.3091	.2083

#1	124600.	4937.	120900.	2495.	7581.	944.3
#2	124400.	4920.	120800.	2499.	7609.	942.8
#3	125400.	4952.	120700.	2491.	7562.	940.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/30/2016 17:07:44 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2447.	2440.	2397.	2406.	992.1	2451.
Stddev	15.	12.	6.	4.	1.9	7.
%RSD	.6087	.4777	.2657	.1859	.1899	.2735

#1	2444.	2431.	2390.	2410.	990.6	2447.
#2	2464.	2453.	2399.	2408.	994.2	2459.
#3	2435.	2436.	2403.	2401.	991.5	2447.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	992.1	4752.	10260.	9365.
Stddev	2.1	2.	90.	22.
%RSD	.2126	.0503	.8764	.2316

#1	991.0	4755.	10220.	9342.
#2	994.5	4751.	10200.	9384.
#3	990.7	4751.	10370.	9369.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2596.4	27611.	4701.6
Stddev	5.0	129.	21.5
%RSD	.19427	.46884	.45832

#1	2602.2	27699.	4724.4
#2	2593.2	27670.	4698.7
#3	2593.8	27462.	4681.6

Sample Name: MB 460-359542/1-A Acquired: 3/30/2016 19:17:24 Type: QC

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-6.094	-4.972	-8.497	-0.512	-0.0677	-22.83
Stddev	6.618	1.033	.3172	.0851	.0652	1.02
%RSD	108.6	207.9	37.33	166.2	96.32	4.478

#1	.8910	-1.529	-.9978	-.1149	-.1175	-23.59
#2	-6.904	-.5007	-1.066	.0455	-.0917	-23.23
#3	-12.27	.5380	-.4855	-.0842	.0061	-21.67

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0962	.0377	-.6273	-4.471	-2.210	17.86
Stddev	.0250	.2614	.4022	.164	6.094	29.46
%RSD	25.95	693.8	64.11	3.669	275.8	165.0

#1	-.0751	.2369	-.9340	-4.374	4.172	17.21
#2	-.1238	-.2583	-.1720	-4.379	-2.832	47.64
#3	-.0897	.1344	-.7760	-4.661	-7.970	-11.28

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.310	.0299	96.18	-.6606	-.0118	-.0069
Stddev	2.161	.0392	22.68	.4938	.8254	.6843
%RSD	165.0	131.0	23.58	74.75	6974.	9865.

#1	-1.002	.0076	120.0	-.3106	.0679	-.0124
#2	1.652	.0070	93.60	-.4457	.7708	.6801
#3	3.280	.0751	74.90	-1.225	-.8742	-.6885

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-359542/1-A Acquired: 3/30/2016 19:17:24 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.265	-.2774	.0123	.3869	.9252	-.1232
Stddev	1.082	.6836	.2335	.2147	.1908	.2496
%RSD	85.51	246.5	1896.	55.48	20.62	202.7
#1	1.567	.1889	.2646	.2174	.8859	-.1441
#2	2.164	-1.062	-.0314	.3150	.7571	.1363
#3	.0644	.0412	-.1962	.6283	1.133	-.3616

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1319	.0028	-.1307	1.657
Stddev	.3891	.0303	.0819	17.66
%RSD	294.9	1097.	62.67	1066.
#1	.5773	-.0253	-.1243	21.30
#2	-.0399	.0350	-.0522	-12.92
#3	-.1417	-.0014	-.2156	-3.408

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2784.4	29264.	4758.2
Stddev	6.2	56.	32.6
%RSD	.22153	.19125	.68410
#1	2790.1	29293.	4794.3
#2	2777.9	29200.	4749.3
#3	2785.3	29300.	4731.1

Sample Name: 680-123425-D-2-A Acquired: 3/30/2016 19:29:25 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1554.	1.263	4.190	16.81	1.704	F 543200.
Stddev	34.	1.986	.163	.21	.053	5681.
%RSD	2.202	157.2	3.894	1.228	3.102	1.046
#1	1561.	-.2647	4.375	16.81	1.757	538300.
#2	1584.	.5464	4.128	17.01	1.704	549400.
#3	1517.	3.508	4.066	16.60	1.652	542000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	13.08	36.80	1.272	60.15	-30.02	28760.
Stddev	.26	.03	.712	.75	5.02	142.
%RSD	1.971	.0932	56.00	1.245	16.73	.4929
#1	12.93	36.81	1.760	59.29	-33.36	28620.
#2	13.38	36.82	.4546	60.50	-32.45	28910.
#3	12.93	36.76	1.602	60.67	-24.24	28760.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34630.	F 25920.	F 1209000.	230.3	-3.539	-3.894
Stddev	286.	130.	8997.	2.6	.699	2.706
%RSD	.8249	.5005	.7443	1.130	19.75	69.48
#1	34540.	25830.	1214000.	231.0	-3.174	-1.659
#2	34950.	26070.	1214000.	232.4	-3.099	-6.902
#3	34410.	25860.	1198000.	227.4	-4.346	-3.121

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		10000.	250000.			
Low Limit		-15.00	-5000.			

Sample Name: 680-123425-D-2-A Acquired: 3/30/2016 19:29:25 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.018	17.03	-2.665	573.8	130.0	1.460
Stddev	1.843	1.12	.288	5.4	.3	.074
%RSD	36.73	6.559	10.81	.9422	.2657	5.047
#1	2.890	16.60	-2.341	574.7	130.0	1.493
#2	6.076	16.18	-2.760	578.7	130.4	1.375
#3	6.088	18.29	-2.894	568.0	129.7	1.510

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.7200	4818.	2.813	14040.
Stddev	.5764	25.	.247	122.
%RSD	80.06	.5085	8.774	.8659
#1	-.1077	4792.	2.979	13930.
#2	-.8002	4840.	2.529	14020.
#3	-1.252	4821.	2.931	14170.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2713.5	28368.	5160.5
Stddev	27.7	241.	112.6
%RSD	1.0226	.85098	2.1828
#1	2687.4	28350.	5074.7
#2	2710.6	28135.	5118.8
#3	2742.7	28617.	5288.1

Sample Name: CCVL Acquired: 3/30/2016 17:15:24 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	217.9	14.51	9.692	213.7	1.928	5071.
Stddev	8.7	1.40	.202	.1	.145	53.
%RSD	4.014	9.643	2.084	.0334	7.545	1.048

#1	221.0	12.95	9.625	213.7	1.910	5018.
#2	224.7	14.95	9.533	213.8	1.792	5072.
#3	208.1	15.64	9.920	213.6	2.082	5124.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.112	52.72	10.50	19.37	175.0	4630.
Stddev	.049	.16	.12	.43	2.6	15.
%RSD	1.191	.3056	1.106	2.230	1.514	.3200

#1	4.064	52.84	10.52	18.90	177.4	4641.
#2	4.108	52.78	10.38	19.46	172.2	4636.
#3	4.162	52.54	10.60	19.74	175.5	4613.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5131.	15.97	4883.	43.41	8.821	18.76
Stddev	37.	.27	29.	.40	1.050	1.38
%RSD	.7281	1.665	.5923	.9178	11.91	7.342

#1	5089.	15.68	4908.	43.16	8.420	20.24
#2	5144.	16.20	4851.	43.20	10.01	17.51
#3	5161.	16.04	4889.	43.87	8.030	18.53

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/30/2016 17:15:24 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21.35	21.98	49.47	30.55	52.27	20.52
Stddev	.42	1.18	.53	.12	.72	.17
%RSD	1.969	5.350	1.073	.3908	1.383	.8182

#1	21.40	20.63	48.86	30.50	51.81	20.53
#2	20.91	22.53	49.82	30.47	53.10	20.67
#3	21.74	22.77	49.73	30.69	51.88	20.34

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	51.86	19.84	22.56	F 17.37
Stddev	.10	.16	.13	6.17
%RSD	.2019	.7996	.5704	35.54

#1	51.83	19.72	22.41	15.98
#2	51.98	20.02	22.63	24.12
#3	51.77	19.78	22.64	12.01

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2791.1	29415.	4843.2
Stddev	22.6	417.	78.5
%RSD	.81042	1.4192	1.6206

#1	2817.1	29857.	4891.6
#2	2780.9	29361.	4885.4
#3	2775.4	29027.	4752.6

Sample Name: 680-123425-D-2-C MS Acquired: 3/30/2016 19:37:50 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3319.	1855.	51.92	1728.	43.23	F 556400.
Stddev	6.	4.	.67	2.	.24	5527.
%RSD	.1772	.1917	1.288	.1207	.5629	.9933
#1	3317.	1858.	51.39	1727.	43.19	554400.
#2	3314.	1855.	52.67	1730.	43.01	552100.
#3	3325.	1851.	51.70	1727.	43.49	562600.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	54.57	451.9	178.9	276.3	880.5	45220.
Stddev	.10	.7	1.7	2.0	6.9	122.
%RSD	.1762	.1583	.9550	.7336	.7807	.2704
#1	54.52	451.1	177.3	274.7	880.8	45310.
#2	54.52	452.5	178.8	275.5	873.4	45080.
#3	54.69	452.0	180.7	278.5	887.2	45260.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50970.	F 25990.	F 1223000.	655.0	383.1	438.4
Stddev	141.	167.	16860.	.9	1.4	.3
%RSD	.2765	.6424	1.378	.1432	.3742	.0715
#1	51030.	25950.	1219000.	655.5	383.0	438.2
#2	50810.	25860.	1242000.	655.6	384.6	438.1
#3	51070.	26180.	1209000.	653.9	381.7	438.7
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		10000.	250000.			
Low Limit		-15.00	-5000.			

Sample Name: 680-123425-D-2-C MS Acquired: 3/30/2016 19:37:50 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1935.	1579.	431.7	981.4	577.1	426.8
Stddev	6.	13.	3.2	2.8	.9	1.3
%RSD	.3096	.8306	.7482	.2815	.1596	.3142
#1	1936.	1576.	428.4	978.3	576.4	425.2
#2	1941.	1593.	431.6	983.7	576.8	427.8
#3	1929.	1568.	434.9	982.3	578.2	427.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	427.2	5214.	459.5	13780.
Stddev	3.3	26.	1.1	84.
%RSD	.7773	.5049	.2455	.6061
#1	423.4	5243.	458.9	13700.
#2	428.4	5191.	458.8	13760.
#3	429.7	5209.	460.8	13870.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2697.4	28127.	5091.4
Stddev	8.2	222.	21.2
%RSD	.30405	.78850	.41635
#1	2695.3	28286.	5108.3
#2	2690.5	28222.	5067.7
#3	2706.5	27874.	5098.4

Sample Name: CCVL Acquired: 3/30/2016 19:49:38 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	231.1	14.64	9.240	212.8	2.069	5065.
Stddev	8.5	.58	.163	1.2	.094	29.
%RSD	3.659	3.956	1.759	.5868	4.543	.5805

#1	221.7	15.29	9.131	211.5	1.964	5037.
#2	238.0	14.18	9.427	213.0	2.147	5095.
#3	233.7	14.44	9.162	214.0	2.094	5062.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.120	52.70	10.58	20.71	170.1	4697.
Stddev	.044	.57	.34	.52	5.6	4.
%RSD	1.063	1.081	3.188	2.518	3.305	.0936

#1	4.083	52.05	10.84	20.60	163.6	4701.
#2	4.168	53.04	10.69	21.28	173.4	4699.
#3	4.109	53.02	10.20	20.25	173.3	4692.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5103.	16.22	4963.	43.38	9.938	18.97
Stddev	11.	.07	12.	.20	.084	1.22
%RSD	.2066	.4485	.2515	.4639	.8406	6.450

#1	5092.	16.29	4963.	43.44	9.966	19.43
#2	5112.	16.20	4976.	43.55	9.844	19.90
#3	5107.	16.15	4951.	43.16	10.00	17.58

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/30/2016 19:49:38 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22.11	21.38	49.71	31.00	52.78	19.98
Stddev	3.49	1.01	.50	.30	.43	.11
%RSD	15.79	4.708	1.004	.9697	.8218	.5522
#1	18.71	20.75	49.35	30.66	52.62	19.93
#2	21.94	20.85	50.28	31.10	52.45	19.90
#3	25.68	22.54	49.50	31.24	53.27	20.10

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	51.94	20.14	22.03	F 5.947
Stddev	.75	.14	.09	12.46
%RSD	1.438	.6707	.3882	209.4
#1	51.36	20.16	22.01	20.33
#2	51.67	20.25	22.12	-1.156
#3	52.78	19.99	21.95	-1.332

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2846.7	29958.	4886.9
Stddev	15.6	164.	44.0
%RSD	.54691	.54899	.90091
#1	2861.5	30074.	4936.5
#2	2848.1	29770.	4871.9
#3	2830.5	30031.	4852.4

Sample Name: 680-123425-D-6-A Acquired: 3/30/2016 19:57:33 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	338.5	1.962	-4.862	33.49	.0587	210700.
Stddev	14.8	.968	.2574	.20	.0165	1000.
%RSD	4.365	49.32	52.94	.5827	28.18	.4747
#1	341.0	2.250	-.4082	33.53	.0417	211500.
#2	351.9	.8827	-.2768	33.65	.0747	209600.
#3	322.7	2.752	-.7736	33.27	.0598	210900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.121	.5328	23.29	4.123	-15.99	9402.
Stddev	.115	.3630	.78	.637	4.53	28.
%RSD	2.789	68.12	3.365	15.45	28.33	.3026
#1	4.111	.4124	24.11	4.856	-13.73	9401.
#2	4.241	.2454	23.20	3.702	-21.20	9431.
#3	4.012	.9407	22.55	3.812	-13.02	9375.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14990.	518.4	F 303000.	8.568	-.6390	-1.675
Stddev	6.	3.0	3530.	.322	.2211	.981
%RSD	.0406	.5784	1.165	3.760	34.60	58.56
#1	14980.	521.4	306000.	8.802	-.6500	-.5525
#2	14980.	515.5	303800.	8.703	-.8543	-2.106
#3	15000.	518.2	299100.	8.201	-.4126	-2.367

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 680-123425-D-6-A Acquired: 3/30/2016 19:57:33 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.7725	.5989	-.1206	46.80	126.1	.0672
Stddev	3.474	1.142	.0979	.30	.9	.1918
%RSD	449.7	190.6	81.17	.6458	.7491	285.5
#1	-.9634	-.6308	-.0566	46.49	126.1	.0647
#2	-1.491	1.625	-.2332	47.09	127.0	.2602
#3	4.772	.8021	-.0719	46.82	125.1	-.1234

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.4020	1113.	5.571	6089.
Stddev	.5806	5.	.139	75.
%RSD	144.4	.4465	2.494	1.224
#1	.2582	1117.	5.644	6009.
#2	-.6312	1114.	5.657	6099.
#3	-.8331	1107.	5.410	6157.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2637.9	28215.	4829.8
Stddev	10.9	72.	60.3
%RSD	.41243	.25473	1.2493
#1	2643.9	28194.	4769.1
#2	2625.4	28295.	4830.6
#3	2644.5	28157.	4889.7

Sample Name: 680-123425-D-7-A Acquired: 3/30/2016 20:01:36 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6627.	7.800	-3322	11.65	15.02	F 298800.
Stddev	11.	.740	.1836	.06	.10	1912.
%RSD	.1610	9.489	55.27	.5032	.6609	.6397
#1	6616.	8.387	-5079	11.69	15.13	300200.
#2	6638.	6.968	-.1416	11.58	14.94	296700.
#3	6627.	8.044	-.3472	11.67	15.00	299700.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.556	21.90	30.14	437.5	27.99	18270.
Stddev	.018	.07	.17	.9	5.93	32.
%RSD	.6869	.3191	.5699	.2064	21.19	.1739
#1	2.574	21.90	30.27	437.7	23.81	18240.
#2	2.553	21.82	30.20	436.5	34.77	18260.
#3	2.539	21.96	29.94	438.3	25.37	18310.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41350.	686.1	F 1202000.	134.9	-3.683	-3.959
Stddev	163.	4.0	31220.	.7	.756	.126
%RSD	.3937	.5839	2.597	.5532	20.52	3.174
#1	41310.	685.7	1238000.	135.0	-3.661	-4.086
#2	41210.	682.3	1187000.	134.1	-4.450	-3.835
#3	41530.	690.3	1181000.	135.5	-2.939	-3.957
Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 680-123425-D-7-A Acquired: 3/30/2016 20:01:36 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.538	2.299	-0.0413	570.6	390.5	-1.1309
Stddev	.852	.558	.2708	2.6	.3	.0296
%RSD	18.77	24.26	656.4	.4497	.0857	22.63
#1	-3.693	2.940	.1101	571.2	390.5	-1.1135
#2	-4.526	2.030	-.3539	567.8	390.1	-1.1651
#3	-5.396	1.926	.1201	572.8	390.8	-1.1142

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-1.672	3332.	1.289	14660.
Stddev	.600	4.	.049	154.
%RSD	35.86	.1289	3.777	1.048
#1	-2.220	3336.	1.261	14500.
#2	-1.032	3331.	1.261	14800.
#3	-1.764	3328.	1.345	14670.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	4780.5	50801.	9324.3
Stddev	41.3	488.	130.6
%RSD	.86444	.95969	1.4008
#1	4801.1	50836.	9243.6
#2	4807.4	51269.	9475.0
#3	4732.9	50296.	9254.4

Sample Name: 680-123425-D-9-A Acquired: 3/30/2016 20:10:01 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	648.2	4.239	.2652	47.87	.6221	209500.
Stddev	8.9	1.417	.3444	.15	.0315	1002.
%RSD	1.379	33.42	129.8	.3143	5.060	.4786

#1	652.5	5.839	-.0753	47.91	.6266	210600.
#2	638.0	3.141	.6133	47.70	.5886	208700.
#3	654.3	3.738	.2577	48.00	.6511	209200.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.173	51.81	-1.312	6.452	1080.	7565.
Stddev	.039	.25	.166	.570	20.	24.
%RSD	3.285	.4872	12.62	8.830	1.822	.3176

#1	1.198	51.77	-1.243	6.719	1088.	7582.
#2	1.129	51.59	-1.193	6.840	1095.	7577.
#3	1.194	52.09	-1.502	5.798	1058.	7538.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16160.	5326.	135000.	52.91	.2575	-1.695
Stddev	67.	24.	255.	.16	.2262	1.628
%RSD	.4170	.4418	.1889	.3042	87.84	96.04

#1	16240.	5352.	135300.	53.08	.2045	-2.623
#2	16120.	5318.	134900.	52.76	.0625	.1846
#3	16130.	5307.	134900.	52.87	.5055	-2.646

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 680-123425-D-9-A Acquired: 3/30/2016 20:10:01 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.355	2.843	-2.102	311.6	319.9	.1910
Stddev	1.110	1.270	.2665	1.0	.9	.2354
%RSD	81.89	44.68	126.8	.3059	.2797	123.3
#1	.3273	3.794	-.1341	311.3	320.9	.0154
#2	2.532	3.334	-.5065	310.9	319.5	.0991
#3	1.206	1.400	.0099	312.7	319.3	.4585

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0135	962.7	5.310	8343.
Stddev	.5786	3.9	.228	86.
%RSD	4298.	.4082	4.289	1.036
#1	-.3195	967.3	5.307	8306.
#2	-.3217	960.6	5.539	8442.
#3	.6815	960.3	5.084	8282.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2721.1	29116.	4936.1
Stddev	2.7	99.	45.7
%RSD	.09835	.34011	.92528
#1	2724.2	29010.	4898.4
#2	2719.6	29207.	4986.9
#3	2719.4	29129.	4923.1

Sample Name: MB 460-359546/1-A Acquired: 3/30/2016 20:13:52 Type: QC

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.157	.7325	-.3503	-.2523	-.0411	4.941
Stddev	8.953	1.029	.3772	.0571	.0470	2.574
%RSD	215.4	140.4	107.7	22.61	114.5	52.09

#1	6.065	1.357	.0846	-.3179	-.0952	6.707
#2	-7.934	1.295	-.5471	-.2138	-.0107	1.988
#3	-10.60	-.4547	-.5885	-.2252	-.0173	6.127

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0540	-.0640	.0842	-3.782	-1.931	46.94
Stddev	.0861	.0430	.1669	.591	5.479	25.03
%RSD	159.4	67.25	198.3	15.62	283.8	53.33

#1	-.0453	-.0247	.1678	-4.380	-8.183	51.51
#2	.1007	-.0573	-.1080	-3.198	.3591	69.37
#3	.1066	-.1100	.1927	-3.768	2.032	19.93

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.502	.5001	287.0	-.7515	.7856	.2607
Stddev	2.188	.1014	22.9	.2133	1.057	1.419
%RSD	145.7	20.28	7.980	28.38	134.5	544.2

#1	1.961	.4787	310.4	-.7849	1.987	-1.167
#2	-.8796	.4110	286.0	-.9462	.0013	1.670
#3	3.424	.6104	264.6	-.5235	.3685	.2795

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-359546/1-A Acquired: 3/30/2016 20:13:52 Type: QC

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.242	-.8313	.1046	.5065	.8239	-.2965
Stddev	1.764	1.045	.1938	.0063	.2769	.0830
%RSD	142.0	125.7	185.3	1.246	33.61	28.01

#1	.7848	-.7402	.2365	.4994	.8710	-.3907
#2	-2.425	.1647	-.1179	.5114	1.074	-.2343
#3	-2.087	-1.918	.1951	.5087	.5265	-.2643

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0473	.0293	.0426	4.881
Stddev	1.294	.0250	.1012	9.753
%RSD	2738.	85.32	237.6	199.8

#1	-.6821	.0376	-.0740	15.56
#2	-.9014	.0491	.0945	-3.548
#3	1.442	.0012	.1073	2.627

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2875.0	30339.	4896.8
Stddev	9.4	17.	36.3
%RSD	.32586	.05482	.74062

#1	2866.5	30321.	4865.9
#2	2873.4	30341.	4936.7
#3	2885.0	30354.	4887.8

Sample Name: 460-110935-D-2-I@4 Acquired: 3/30/2016 17:19:20 Type: Unk

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26660.	2.803	.0835	177.2	1.800	5608.
Stddev	81.	.589	.4352	.3	.061	18.
%RSD	.3050	21.00	521.5	.1703	3.404	.3237

#1	26750.	3.392	-.0763	176.8	1.862	5587.
#2	26650.	2.800	-.2493	177.3	1.740	5615.
#3	26590.	2.216	.5760	177.3	1.800	5622.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.074	33.66	50.47	193.9	64050.	3466.
Stddev	.026	.10	.31	.4	166.	14.
%RSD	2.442	.3083	.6062	.1990	.2585	.3906

#1	-1.060	33.57	50.24	193.5	64140.	3479.
#2	-1.059	33.77	50.35	194.2	63860.	3467.
#3	-1.105	33.63	50.82	194.0	64150.	3452.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11310.	2098.	2019.	52.37	24.17	-.0751
Stddev	21.	6.	3.	.07	.39	.9014
%RSD	.1814	.3070	.1344	.1264	1.634	1200.

#1	11330.	2101.	2017.	52.34	23.80	.6893
#2	11290.	2091.	2020.	52.45	24.59	-1.069
#3	11320.	2103.	2022.	52.32	24.11	.1543

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110935-D-2-I@4 Acquired: 3/30/2016 17:19:20 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1311	-1.785	65.39	135.6	15.10	1.115
Stddev	3.576	1.402	.76	.5	.13	.097
%RSD	2728.	78.56	1.161	.3479	.8887	8.712
#1	3.993	-2.772	64.52	136.0	15.25	1.016
#2	-.5343	-2.404	65.77	135.1	15.00	1.210
#3	-3.066	-.1799	65.89	135.8	15.05	1.119

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.804	19.18	770.8	634.0
Stddev	.710	.01	1.5	19.7
%RSD	12.24	.0768	.1992	3.101
#1	5.719	19.17	771.4	621.4
#2	6.553	19.17	769.1	656.6
#3	5.140	19.19	772.0	623.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2906.5	30800.	5024.0
Stddev	5.0	195.	25.8
%RSD	.17175	.63300	.51304
#1	2900.8	30588.	4999.8
#2	2908.8	30971.	5051.1
#3	2910.0	30842.	5021.2

Sample Name: 680-123425-E-6-A Acquired: 3/30/2016 20:25:32 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	374.3	2.176	-3947	36.01	.1274	223000.
Stddev	14.2	1.255	.3120	.11	.0332	1284.
%RSD	3.796	57.67	79.04	.3164	26.03	.5755

#1	364.2	1.513	-.5742	36.00	.1528	222200.
#2	390.6	3.623	-.5754	36.12	.0899	222400.
#3	368.2	1.391	-.0344	35.90	.1394	224500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.087	.5021	25.02	5.963	371.7	9849.
Stddev	.032	.2563	.79	.323	14.9	13.
%RSD	.6296	51.06	3.156	5.421	4.007	.1356

#1	5.121	.2097	25.35	5.852	379.5	9864.
#2	5.058	.6083	24.12	5.711	354.5	9842.
#3	5.080	.6882	25.58	6.328	381.0	9840.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15830.	561.3	F 322000.	9.322	.4085	-1.733
Stddev	65.	2.4	3687.	.420	1.316	1.178
%RSD	.4080	.4335	1.145	4.506	322.1	67.94

#1	15820.	559.7	325900.	9.598	1.517	-2.525
#2	15780.	560.1	321400.	8.839	-1.046	-.3800
#3	15910.	564.1	318600.	9.530	.7537	-2.295

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 680-123425-E-6-A Acquired: 3/30/2016 20:25:32 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.663	-1.444	.1316	56.89	132.4	-.1780
Stddev	3.159	1.397	.7093	.20	.8	.2204
%RSD	118.6	96.75	539.0	.3528	.5990	123.8
#1	5.293	.1599	-.1581	56.71	133.2	-.3647
#2	3.538	-2.097	-.3870	56.85	132.2	-.2345
#3	-.8417	-2.396	.9398	57.10	131.7	.0651

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.3833	1168.	7.598	6302.
Stddev	1.153	3.	.201	38.
%RSD	300.9	.2795	2.641	.6004
#1	.5323	1171.	7.641	6344.
#2	-1.679	1168.	7.379	6290.
#3	-.0036	1165.	7.773	6271.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2650.6	27951.	4782.6
Stddev	7.3	155.	34.3
%RSD	.27540	.55573	.71614
#1	2643.3	27985.	4801.1
#2	2657.9	28086.	4803.5
#3	2650.8	27781.	4743.0

Sample Name: CCV Acquired: 3/30/2016 20:33:32 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121800.	2457.	1242.	9968.	936.8	122900.
Stddev	221.	9.	3.	15.	2.0	162.
%RSD	.1815	.3776	.2646	.1546	.2140	.1316

#1	121600.	2457.	1244.	9972.	935.0	122800.
#2	122000.	2466.	1239.	9982.	939.0	122900.
#3	121700.	2448.	1245.	9951.	936.5	123100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1227.	2425.	4980.	11960.	102400.	46940.
Stddev	2.	6.	9.	12.	231.	41.
%RSD	.1463	.2279	.1792	.0969	.2255	.0869

#1	1227.	2420.	4970.	11980.	102200.	46950.
#2	1229.	2431.	4986.	11960.	102300.	46970.
#3	1225.	2425.	4984.	11960.	102600.	46890.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124400.	4934.	121000.	2490.	7566.	947.9
Stddev	101.	6.	170.	4.	14.	6.8
%RSD	.0808	.1260	.1403	.1557	.1911	.7226

#1	124300.	4927.	120900.	2491.	7575.	942.2
#2	124400.	4934.	121200.	2493.	7573.	955.5
#3	124500.	4940.	120900.	2486.	7549.	945.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/30/2016 20:33:32 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2468.	2428.	2382.	2397.	993.4	2444.
Stddev	13.	12.	2.	2.	4.6	5.
%RSD	.5230	.4936	.0895	.0750	.4639	.1954

#1	2460.	2417.	2380.	2396.	989.5	2439.
#2	2483.	2441.	2384.	2399.	998.5	2449.
#3	2462.	2428.	2381.	2396.	992.3	2444.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	987.7	4788.	10140.	9200.
Stddev	5.2	4.	48.	37.
%RSD	.5232	.0907	.4735	.4049

#1	982.4	4792.	10100.	9182.
#2	992.7	4783.	10120.	9175.
#3	988.0	4789.	10190.	9243.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2646.6	28169.	4796.7
Stddev	2.5	29.	25.5
%RSD	.09403	.10253	.53258

#1	2644.7	28169.	4791.2
#2	2645.8	28198.	4774.3
#3	2649.4	28140.	4824.5

Sample Name: CCB Acquired: 3/30/2016 20:37:14 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-8.443	.9709	-.5753	.2206	.0371	-4.507
Stddev	24.24	.5767	.3595	.1349	.0249	26.01
%RSD	287.1	59.40	62.49	61.14	67.10	577.3

#1	16.56	1.416	-.2093	.3763	.0623	25.53
#2	-10.05	1.178	-.5885	.1467	.0365	-19.56
#3	-31.85	.3193	-.9279	.1388	.0125	-19.50

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0136	.0483	.3312	-2.503	11.37	28.35
Stddev	.0296	.1870	1.017	2.659	22.93	23.16
%RSD	218.3	387.5	307.2	106.2	201.7	81.71

#1	.0150	.1481	1.443	.5636	37.84	47.15
#2	-.0441	-.1675	.1047	-3.902	-2.144	35.42
#3	-.0116	.1642	-.5539	-4.171	-1.595	2.474

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.04	.7027	113.9	-.5624	.1646	.4965
Stddev	22.65	1.108	15.8	.3725	1.021	.4982
%RSD	125.6	157.6	13.86	66.23	620.3	100.4

#1	44.19	1.981	131.6	-.3766	-.0174	.0216
#2	5.523	.0918	108.7	-.9913	-.7533	.4526
#3	4.412	.0349	101.4	-.3193	1.265	1.015

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/30/2016 20:37:14 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.007	-.7236	.2480	-.0070	1.069	.6704
Stddev	3.778	.7979	.2737	.1860	.200	.4801
%RSD	375.2	110.3	110.4	2652.	18.69	71.61
#1	-3.283	-1.049	.4983	-.1930	.8872	1.113
#2	-3.093	.1856	.2899	.1790	1.283	.7389
#3	3.354	-1.308	-.0443	-.0071	1.037	.1597

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1733	.1198	1.769	17.43
Stddev	.4069	.0508	2.206	2.73
%RSD	234.8	42.44	124.7	15.69
#1	-.2957	.1494	4.314	19.94
#2	.3828	.1488	.4090	17.83
#3	.4326	.0611	.5841	14.52

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2833.8	29945.	4881.3
Stddev	4.0	167.	23.9
%RSD	.14276	.55820	.48992
#1	2836.8	29903.	4856.6
#2	2835.3	29803.	4883.0
#3	2829.2	30129.	4904.3

Sample Name: 680-123425-E-6-C MS Acquired: 3/30/2016 20:45:07 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2279.	1903.	48.06	1920.	45.34	238700.
Stddev	12.	6.	.38	1.	.03	1039.
%RSD	.5148	.2988	.7819	.0566	.0693	.4351

#1	2292.	1901.	47.68	1921.	45.37	239900.
#2	2274.	1898.	48.09	1919.	45.31	238100.
#3	2270.	1909.	48.43	1920.	45.33	238100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51.33	462.3	218.9	234.7	1367.	26850.
Stddev	.07	.6	.5	1.2	13.	42.
%RSD	.1400	.1343	.2354	.5090	.9518	.1579

#1	51.39	462.1	218.8	233.3	1376.	26840.
#2	51.25	461.8	218.5	235.6	1352.	26820.
#3	51.36	463.0	219.5	235.1	1373.	26900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	33700.	1019.	F 345000.	489.5	437.7	459.8
Stddev	180.	4.	1458.	.6	2.2	2.1
%RSD	.5343	.3585	.4226	.1187	.5120	.4497

#1	33900.	1024.	343400.	490.0	436.8	462.2
#2	33610.	1017.	346100.	488.8	435.9	459.0
#3	33580.	1017.	345700.	489.7	440.2	458.3

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 680-123425-E-6-C MS Acquired: 3/30/2016 20:45:07 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1944.	1808.	468.9	520.9	627.1	468.9
Stddev	9.	14.	1.1	2.0	1.7	1.4
%RSD	.4374	.7666	.2449	.3768	.2639	.2939
#1	1934.	1792.	469.4	519.1	626.5	467.5
#2	1949.	1814.	467.6	520.7	625.9	469.0
#3	1950.	1818.	469.8	523.0	629.0	470.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	476.8	1622.	502.1	6352.
Stddev	1.8	1.	1.8	31.
%RSD	.3694	.0695	.3641	.4943
#1	474.8	1622.	503.9	6365.
#2	477.3	1621.	500.3	6316.
#3	478.2	1623.	502.0	6374.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2619.3	27895.	4740.1
Stddev	6.3	162.	23.1
%RSD	.24200	.58005	.48827
#1	2616.2	27708.	4714.8
#2	2626.6	28000.	4745.1
#3	2615.1	27976.	4760.2

Sample Name: 460-110769-D-67-C@40 Acquired: 3/30/2016 17:23:09 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4240.	4.960	-4.818	17.80	.5553	39290.
Stddev	25.	1.239	.1062	.06	.0790	191.
%RSD	.6009	24.98	22.05	.3357	14.23	.4852
#1	4245.	3.941	-.4375	17.80	.6091	39170.
#2	4262.	6.339	-.6030	17.85	.4645	39190.
#3	4212.	4.601	-.4048	17.73	.5922	39510.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1971	3.185	17.48	-3.384	12910.	3685.
Stddev	.0465	.050	.34	.534	73.	22.
%RSD	23.60	1.553	1.954	15.77	.5667	.5947
#1	-.2372	3.220	17.86	-3.569	12920.	3709.
#2	-.2079	3.128	17.20	-2.782	12830.	3668.
#3	-.1461	3.206	17.38	-3.800	12980.	3677.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1910.	77.92	299.0	5.803	2.008	.1298
Stddev	13.	.25	8.6	.123	.257	.8721
%RSD	.6803	.3170	2.859	2.116	12.82	672.1
#1	1912.	78.16	292.5	5.684	1.989	.0655
#2	1895.	77.67	308.7	5.795	2.275	1.032
#3	1921.	77.95	295.8	5.930	1.761	-.7084

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110769-D-67-C@40 Acquired: 3/30/2016 17:23:09 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.603	-4.280	8.661	20.88	36.56	1.154
Stddev	1.967	.4557	.351	.20	.23	.081
%RSD	1227.	106.5	4.051	.9666	.6211	6.976
#1	1.750	-.9207	8.301	21.10	36.72	1.245
#2	-2.179	-.3419	8.680	20.83	36.30	1.122
#3	-.0526	-.0215	9.002	20.71	36.67	1.094

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1268	186.0	36.49	308.3
Stddev	.6165	1.1	.19	11.3
%RSD	486.3	.6104	.5283	3.658
#1	-.5627	187.2	36.67	309.1
#2	.3181	185.8	36.28	296.7
#3	.6250	185.0	36.52	319.2

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2788.6	29520.	4826.9
Stddev	24.9	368.	44.9
%RSD	.89278	1.2463	.92917
#1	2817.4	29770.	4851.3
#2	2775.4	29692.	4854.3
#3	2773.2	29097.	4775.2

Sample Name: 680-123425-E-7-A Acquired: 3/30/2016 20:56:56 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9825.	9.129	-1.1524	11.82	13.10	F 310700.
Stddev	18.	2.265	.0470	.08	.06	1589.
%RSD	.1871	24.82	30.83	.6740	.4784	.5113

#1	9804.	6.628	-.1825	11.76	13.16	312000.
#2	9831.	9.717	-.1764	11.80	13.11	308900.
#3	9839.	11.04	-.0983	11.91	13.04	311200.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.863	25.92	36.82	379.9	339.3	19520.
Stddev	.059	.07	.33	1.3	1.4	78.
%RSD	2.055	.2609	.8985	.3488	.4250	.4014

#1	2.846	25.85	36.96	378.7	339.1	19500.
#2	2.929	25.96	37.06	379.7	340.8	19440.
#3	2.815	25.97	36.44	381.4	337.9	19600.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39860.	1050.	F 1257000.	133.7	-3.106	-4.239
Stddev	72.	5.	25380.	.8	.673	.513
%RSD	.1811	.4933	2.019	.5715	21.69	12.10

#1	39940.	1055.	1286000.	133.1	-2.940	-3.846
#2	39860.	1047.	1242000.	133.5	-2.531	-4.052
#3	39790.	1046.	1243000.	134.6	-3.847	-4.819

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 680-123425-E-7-A Acquired: 3/30/2016 20:56:56 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.099	1.403	.0185	593.1	345.0	-.2726
Stddev	1.041	1.590	.2622	.2	1.5	.1218
%RSD	49.61	113.4	1416.	.0344	.4366	44.67
#1	-2.842	-.4321	.2962	593.3	343.5	-.3527
#2	-2.545	2.377	-.2248	593.1	345.0	-.1325
#3	-.9088	2.263	-.0159	592.8	346.5	-.3326

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-1.460	3398.	2.701	17340.
Stddev	.309	9.	.075	91.
%RSD	21.16	.2683	2.793	.5255
#1	-1.570	3409.	2.788	17270.
#2	-1.699	3395.	2.664	17300.
#3	-1.111	3392.	2.652	17440.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	4249.1	45214.	8149.8
Stddev	19.6	53.	8.7
%RSD	.46040	.11825	.10697
#1	4264.4	45274.	8155.6
#2	4255.8	45172.	8154.1
#3	4227.1	45196.	8139.8

Sample Name: 680-123425-E-9-A Acquired: 3/30/2016 21:05:20 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2201.	5.093	.7647	68.77	.6134	227100.
Stddev	13.	1.149	.3518	.09	.1190	375.
%RSD	.6122	22.56	46.01	.1274	19.39	.1652

#1	2193.	5.621	1.156	68.86	.5025	227400.
#2	2193.	3.775	.4751	68.69	.5988	226700.
#3	2216.	5.883	.6627	68.74	.7390	227300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.260	49.33	1.973	14.62	3098.	8106.
Stddev	.060	.32	.411	.67	9.	25.
%RSD	4.773	.6493	20.83	4.557	.3007	.3081

#1	1.317	49.53	1.889	14.26	3090.	8134.
#2	1.197	48.96	2.420	14.21	3096.	8086.
#3	1.264	49.50	1.611	15.39	3109.	8099.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17110.	5644.	144200.	48.74	5.755	-1.826
Stddev	42.	3.	373.	.37	.370	2.338
%RSD	.2463	.0546	.2589	.7563	6.423	128.0

#1	17160.	5645.	144400.	49.10	5.848	-1.811
#2	17110.	5640.	144400.	48.76	5.347	-4.172
#3	17070.	5646.	143800.	48.36	6.068	.5048

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 680-123425-E-9-A Acquired: 3/30/2016 21:05:20 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.544	2.205	3.320	287.3	311.4	.3430
Stddev	3.007	.663	.236	1.0	1.0	.0559
%RSD	194.8	30.08	7.112	.3487	.3134	16.29
#1	4.950	2.727	3.573	286.9	311.1	.3117
#2	.4256	1.459	3.280	286.5	312.5	.4075
#3	-.7446	2.429	3.106	288.4	310.7	.3097

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3469	1021.	45.26	9766.
Stddev	.6888	3.	3.34	84.
%RSD	198.6	.2709	7.373	.8650
#1	.9543	1023.	49.02	9682.
#2	.4879	1023.	44.11	9766.
#3	-.4015	1018.	42.65	9851.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2749.8	29369.	4965.9
Stddev	7.8	216.	68.7
%RSD	.28296	.73501	1.3827
#1	2741.6	29126.	4887.6
#2	2757.1	29539.	4994.2
#3	2750.7	29443.	5015.8

Sample Name: MB 460-359536/1-A Acquired: 3/30/2016 17:27:03 Type: QC

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-7.327	-.1243	-.5749	-.0836	.0418	-18.28
Stddev	11.57	1.199	.6081	.1437	.0898	3.25
%RSD	157.9	964.4	105.8	172.0	214.9	17.80

#1	4.986	-1.230	.0923	-.1836	.1403	-14.81
#2	-8.992	1.150	-1.098	-.1482	-.0356	-21.27
#3	-17.97	-.2925	-.7189	.0811	.0207	-18.75

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0735	.0559	-.0679	-4.085	-1.596	15.94
Stddev	.1008	.0780	.1116	.630	9.959	26.60
%RSD	137.2	139.5	164.4	15.43	624.0	166.9

#1	-.0114	.1352	.0521	-4.235	9.757	31.14
#2	-.0193	-.0207	-.0871	-4.627	-5.687	31.44
#3	-.1898	.0532	-.1687	-3.394	-8.858	-14.78

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5960	.0756	-10.37	-.3713	.4904	-.1434
Stddev	1.909	.0367	3.53	.0409	.1000	1.327
%RSD	320.3	48.49	34.02	11.00	20.40	925.2

#1	1.423	.1165	-13.52	-.3864	.4179	-1.559
#2	-2.372	.0645	-6.557	-.4025	.6045	.0572
#3	-.8389	.0458	-11.05	-.3250	.4487	1.072

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-359536/1-A Acquired: 3/30/2016 17:27:03 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.827	-.7245	-.0192	.5430	.0123	-.1853
Stddev	1.697	1.147	.2307	.0785	.0687	.1938
%RSD	60.01	158.3	1202.	14.46	559.3	104.6
#1	1.980	-1.930	-.0917	.4998	-.0208	.0384
#2	4.781	.3528	.2390	.4956	.0912	-.2898
#3	1.722	-.5965	-.2049	.6336	-.0336	-.3044

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1728	-.0206	.0903	11.52
Stddev	.7286	.1198	.1618	9.65
%RSD	421.5	583.0	179.2	83.73
#1	-.9574	-.0531	.1514	20.84
#2	.4825	.1122	.2126	12.14
#3	-.0436	-.1208	-.0932	1.582

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2845.0	30036.	4911.4
Stddev	10.2	116.	39.5
%RSD	.35982	.38539	.80347
#1	2856.0	30167.	4916.9
#2	2843.5	29949.	4947.8
#3	2835.7	29991.	4869.4

Sample Name: 460-111189-F-1-B DU Acquired: 3/30/2016 17:34:40 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	173.4	12.37	-4369	125.0	.0092	65930.
Stddev	20.5	.26	.3650	.2	.0885	505.
%RSD	11.81	2.139	83.56	.1507	958.2	.7666

#1	187.8	12.45	-.8159	124.8	.0689	66510.
#2	182.3	12.08	-.0877	125.1	.0513	65630.
#3	149.9	12.59	-.4070	125.1	-.0925	65640.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0108	.1130	-.9772	-1.937	30.42	36060.
Stddev	.1222	.2184	.1751	.369	6.32	197.
%RSD	1135.	193.3	17.92	19.04	20.77	.5465

#1	.0952	.1232	-1.068	-1.511	25.26	36280.
#2	-.1445	.3262	-.7753	-2.162	37.47	36010.
#3	.0169	-.1103	-1.088	-2.138	28.54	35890.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	55510.	424.3	F 463400.	.1234	-1.751	.0908
Stddev	436.	3.3	5748.	.6168	.557	.8956
%RSD	.7854	.7809	1.241	500.0	31.83	986.2

#1	56010.	428.0	465600.	-.4972	-2.044	-.9288
#2	55320.	423.1	467700.	.7363	-1.108	.4508
#3	55210.	421.7	456800.	.1309	-2.101	.7505

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-111189-F-1-B DU Acquired: 3/30/2016 17:34:40 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7733	.3955	2.621	7.506	379.5	16.10
Stddev	.5063	.1985	.125	.070	1.1	.09
%RSD	65.47	50.19	4.765	.9271	.2775	.5498
#1	-.8103	.4680	2.653	7.556	379.4	16.00
#2	-1.260	.5476	2.727	7.427	380.6	16.16
#3	-.2495	.1709	2.484	7.536	378.5	16.14

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4335	437.5	5.537	7703.
Stddev	.5034	2.8	.123	102.
%RSD	116.1	.6325	2.223	1.319
#1	.0003	440.1	5.415	7659.
#2	.3145	437.8	5.534	7631.
#3	.9858	434.6	5.661	7820.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2658.0	27398.	4763.9
Stddev	17.9	199.	46.3
%RSD	.67297	.72583	.97276
#1	2670.4	27220.	4718.3
#2	2666.2	27612.	4762.6
#3	2637.5	27361.	4810.9

Sample Name: sd 460-111189-F-1-A Acquired: 3/30/2016 17:42:45 Type: Unk

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	42.32	2.390	-.2941	25.37	.0604	12910.
Stddev	5.92	.405	.5841	.15	.1211	93.
%RSD	13.99	16.93	198.6	.5757	200.4	.7185

#1	48.85	1.989	.0415	25.52	.1990	13000.
#2	40.84	2.383	-.9686	25.23	.0075	12810.
#3	37.29	2.798	.0447	25.34	-.0252	12920.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0207	-.0954	-.1711	-4.615	2.658	7070.
Stddev	.0330	.3043	.4279	.203	14.11	68.
%RSD	160.0	318.9	250.2	4.405	530.8	.9672

#1	-.0211	-.0569	.2607	-4.417	14.27	7147.
#2	.0126	-.4171	-.1788	-4.823	6.750	7016.
#3	-.0535	.1878	-.5951	-4.605	-13.04	7046.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10960.	85.26	92620.	-.1184	-.8310	-1.526
Stddev	36.	.38	1238.	.1971	.4249	.879
%RSD	.3330	.4513	1.337	166.6	51.13	57.59

#1	10990.	85.69	94030.	-.3449	-.9299	-1.823
#2	10960.	84.97	92120.	.0142	-.3654	-2.217
#3	10920.	85.11	91710.	-.0243	-1.198	-.5369

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-111189-F-1-A Acquired: 3/30/2016 17:42:45 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3301	-1.764	.1194	1.414	75.62	3.055
Stddev	1.459	1.407	.3871	.237	.76	.172
%RSD	442.1	79.75	324.2	16.75	1.002	5.625
#1	-1.938	-2.255	.5422	1.141	75.79	2.911
#2	.9093	-.1776	.0337	1.541	76.27	3.008
#3	.0388	-2.860	-.2176	1.561	74.79	3.245

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0578	89.36	2.360	1484.
Stddev	.2835	.75	.244	20.
%RSD	490.2	.8421	10.34	1.315
#1	-.3796	90.17	2.243	1463.
#2	.0511	89.23	2.641	1502.
#3	.1550	88.68	2.197	1488.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2684.2	28220.	4719.2
Stddev	19.9	176.	71.5
%RSD	.74033	.62479	1.5151
#1	2663.1	28026.	4636.7
#2	2702.5	28370.	4757.8
#3	2687.1	28263.	4763.2

Sample Name: pds 460-111189-F-1-A Acquired: 3/30/2016 17:50:29 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2183.	2002.	52.36	2112.	48.26	86930.
Stddev	24.	9.	.95	14.	.54	748.
%RSD	1.087	.4546	1.821	.6472	1.115	.8604
#1	2171.	2009.	51.31	2121.	48.22	86210.
#2	2210.	1992.	53.18	2096.	48.82	87700.
#3	2167.	2006.	52.59	2118.	47.75	86890.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.56	484.2	209.6	233.0	1102.	55100.
Stddev	.39	3.2	2.6	2.3	13.	598.
%RSD	.7876	.6582	1.242	1.006	1.193	1.085
#1	49.76	486.5	206.6	230.3	1091.	55230.
#2	49.11	480.5	211.4	234.6	1117.	55630.
#3	49.81	485.6	210.7	234.2	1099.	54450.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	76610.	926.7	F 493300.	507.6	466.6	473.6
Stddev	628.	7.2	6682.	4.2	6.0	2.6
%RSD	.8192	.7796	1.354	.8190	1.293	.5577
#1	75950.	919.5	497000.	509.7	469.6	473.0
#2	77190.	933.9	497300.	502.8	459.7	471.4
#3	76690.	926.6	485600.	510.3	470.6	476.5

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: pds 460-111189-F-1-A Acquired: 3/30/2016 17:50:29 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2052.	1913.	497.7	510.8	922.4	506.7
Stddev	10.	12.	3.1	4.0	3.4	3.5
%RSD	.5038	.6372	.6322	.7761	.3717	.6865
#1	2059.	1911.	494.1	512.5	921.8	507.2
#2	2040.	1901.	499.5	506.3	919.3	503.0
#3	2057.	1925.	499.6	513.8	926.0	509.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	506.3	919.4	531.5	7923.
Stddev	4.7	10.3	3.5	40.
%RSD	.9353	1.125	.6549	.5092
#1	506.8	919.5	528.1	7953.
#2	501.4	929.7	535.1	7877.
#3	510.8	909.0	531.4	7938.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2529.3	26285.	4478.9
Stddev	16.1	311.	52.8
%RSD	.63727	1.1834	1.1781
#1	2530.8	26640.	4481.7
#2	2544.6	26058.	4424.8
#3	2512.5	26158.	4530.2

Sample Name: CCVL Acquired: 3/30/2016 21:32:31 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	229.5	14.45	9.614	212.8	2.004	5012.
Stddev	2.3	1.13	.132	.6	.135	27.
%RSD	1.022	7.848	1.370	.2953	6.749	.5413
#1	232.1	13.95	9.683	212.2	2.038	4994.
#2	228.7	15.74	9.462	212.6	2.119	4999.
#3	227.6	13.65	9.696	213.5	1.855	5043.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.135	52.54	10.34	19.31	171.0	4668.
Stddev	.036	.26	.56	.42	6.5	8.
%RSD	.8775	.5001	5.413	2.190	3.780	.1795
#1	4.150	52.25	10.63	19.80	163.7	4677.
#2	4.161	52.62	9.695	19.05	176.1	4660.
#3	4.093	52.76	10.69	19.09	173.1	4667.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5073.	15.87	4981.	43.02	8.453	19.95
Stddev	21.	.07	17.	.69	.864	.67
%RSD	.4232	.4503	.3379	1.594	10.23	3.355
#1	5050.	15.84	5001.	42.24	7.519	19.39
#2	5076.	15.81	4975.	43.53	9.225	20.69
#3	5093.	15.95	4969.	43.29	8.616	19.77

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/30/2016 21:32:31 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.87	22.61	49.52	30.54	52.91	20.24
Stddev	1.72	1.67	.16	.24	.38	.07
%RSD	8.244	7.403	.3250	.7928	.7181	.3237
#1	22.86	23.76	49.55	30.26	52.93	20.31
#2	19.83	23.38	49.35	30.67	52.52	20.24
#3	19.94	20.69	49.66	30.68	53.28	20.18

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	51.05	19.94	22.44	F -1.290
Stddev	1.21	.29	.10	21.35
%RSD	2.361	1.444	.4563	1656.
#1	49.69	20.24	22.35	-25.80
#2	51.48	19.92	22.56	13.25
#3	51.98	19.66	22.42	8.689

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2830.6	30024.	4859.4
Stddev	15.3	190.	38.7
%RSD	.54053	.63165	.79623
#1	2846.6	30204.	4874.7
#2	2829.0	30041.	4888.1
#3	2816.1	29826.	4815.4

Sample Name: 460-111167-D-2-A@10 Acquired: 3/30/2016 17:54:15 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9.100	.6999	-.1902	4.573	.0181	7818.
Stddev	7.735	1.458	.1388	.087	.0425	76.
%RSD	85.00	208.4	72.97	1.904	235.0	.9712

#1	.1751	-.7292	-.1648	4.569	.0590	7782.
#2	13.27	.6432	-.0659	4.662	.0211	7766.
#3	13.86	2.186	-.3399	4.488	-.0258	7905.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0509	-.2674	1.959	2.650	93.89	4597.
Stddev	.0939	.0858	.407	.247	9.65	41.
%RSD	184.5	32.10	20.80	9.319	10.28	.8811

#1	.0007	-.3259	2.143	2.367	87.99	4638.
#2	-.1593	-.1688	2.241	2.822	105.0	4597.
#3	.0060	-.3074	1.492	2.762	88.66	4557.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	952.9	1.399	F 595600.	2.222	.2836	.9409
Stddev	11.1	.039	848.	.529	.3779	1.115
%RSD	1.169	2.763	.1423	23.83	133.3	118.5

#1	956.3	1.355	596500.	1.621	.6278	1.137
#2	940.5	1.414	594800.	2.620	-.1208	1.945
#3	961.9	1.427	595700.	2.426	.3436	-.2586

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-111167-D-2-A@10 Acquired: 3/30/2016 17:54:15 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.021	-.0236	1.549	6.873	9.101	1.921
Stddev	1.787	.3266	.333	.230	.144	.036
%RSD	88.42	1383.	21.47	3.350	1.581	1.902
#1	3.675	.3351	1.193	6.846	9.260	1.956
#2	.1251	-.1023	1.852	6.657	8.979	1.925
#3	2.264	-.3037	1.602	7.116	9.063	1.883

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.8762	36.76	9.955	863.1
Stddev	.6110	.12	.102	23.0
%RSD	69.73	.3243	1.029	2.667
#1	1.572	36.87	9.878	858.1
#2	.4293	36.63	10.07	888.3
#3	.6269	36.77	9.916	843.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2553.2	26040.	4537.2
Stddev	21.6	218.	20.7
%RSD	.84756	.83823	.45618
#1	2531.3	26044.	4541.5
#2	2553.6	26256.	4555.4
#3	2574.6	25820.	4514.7

Sample Name: CCB Acquired: 3/30/2016 18:02:06 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.502	1.057	-.2741	.2854	.0209	-7.621
Stddev	8.247	2.316	.4594	.0996	.1123	30.02
%RSD	329.6	219.1	167.6	34.90	538.7	393.9

#1	-5.337	3.375	.1980	.3567	-.1083	27.04
#2	6.788	-1.257	-.3007	.3278	.0753	-25.46
#3	-8.958	1.052	-.7196	.1716	.0956	-24.44

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1013	-.0111	.6264	-2.924	2.106	20.96
Stddev	.0329	.2486	1.309	2.619	32.75	25.28
%RSD	32.46	2241.	209.0	89.55	1555.	120.6

#1	-.1319	-.2020	2.116	.0551	39.91	4.836
#2	-.1052	.2700	.1042	-3.967	-16.11	7.954
#3	-.0666	-.1013	-.3412	-4.861	-17.48	50.10

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.51	.7684	81.10	-.7086	.4484	.2580
Stddev	26.07	1.214	22.01	.1310	.5680	.2355
%RSD	148.9	158.0	27.14	18.48	126.7	91.30

#1	47.60	2.170	106.0	-.7980	.0143	.2403
#2	1.917	.0636	72.96	-.5582	1.091	.5018
#3	3.006	.0711	64.31	-.7695	.2396	.0318

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/30/2016 18:02:06 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.539	-2.148	-.0314	-.0325	1.609	.8975
Stddev	3.901	.795	.5996	.0149	.574	.3748
%RSD	110.2	37.01	1908.	45.82	35.68	41.76
#1	-.8737	-2.293	.6022	-.0485	2.220	1.295
#2	4.962	-1.290	-.1066	-.0190	1.081	.8468
#3	6.528	-2.860	-.5898	-.0302	1.527	.5506

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.5740	.1241	1.834	-2.474
Stddev	1.183	.0952	2.335	13.02
%RSD	206.1	76.67	127.3	526.5
#1	-.2778	.2278	4.530	12.06
#2	.4327	.1037	.4809	-6.400
#3	-1.877	.0408	.4905	-13.08

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2694.5	28425.	4578.6
Stddev	3.8	126.	38.6
%RSD	.13940	.44301	.84252
#1	2695.5	28287.	4561.3
#2	2697.6	28452.	4551.6
#3	2690.3	28535.	4622.8

Sample Name: CCVL Acquired: 3/30/2016 18:06:05 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	217.4	14.42	10.15	222.9	2.020	5254.
Stddev	8.5	.41	.27	.6	.146	33.
%RSD	3.927	2.825	2.653	.2472	7.234	.6264

#1	221.2	14.64	10.38	223.1	2.176	5279.
#2	223.4	13.95	10.23	223.3	2.000	5267.
#3	207.6	14.67	9.855	222.3	1.885	5217.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.294	54.46	10.94	19.96	194.4	4839.
Stddev	.054	.41	.24	.29	8.1	7.
%RSD	1.259	.7564	2.166	1.440	4.171	.1541

#1	4.260	54.26	11.20	20.29	202.2	4845.
#2	4.356	54.93	10.88	19.79	186.0	4831.
#3	4.265	54.18	10.74	19.79	194.8	4842.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5315.	16.51	5163.	45.24	10.38	19.13
Stddev	29.	.18	22.	.21	.65	.57
%RSD	.5530	1.062	.4178	.4651	6.219	2.978

#1	5337.	16.55	5185.	45.30	9.772	19.78
#2	5327.	16.67	5142.	45.00	11.06	18.91
#3	5282.	16.32	5160.	45.41	10.30	18.70

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/30/2016 18:06:05 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.38	21.80	51.85	31.67	55.37	21.01
Stddev	2.64	1.34	.06	.06	.65	.10
%RSD	12.94	6.132	.1150	.1831	1.177	.4811
#1	17.64	20.39	51.92	31.60	55.82	21.13
#2	22.91	23.04	51.82	31.70	55.67	20.96
#3	20.59	21.98	51.82	31.70	54.62	20.95

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	53.34	20.47	23.71	F -21.44
Stddev	.25	.18	.26	15.96
%RSD	.4714	.8812	1.092	74.46
#1	53.07	20.28	23.49	-20.47
#2	53.57	20.51	23.65	-5.981
#3	53.39	20.64	24.00	-37.86

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2659.6	28253.	4535.8
Stddev	13.4	318.	42.5
%RSD	.50392	1.1239	.93791
#1	2645.7	28014.	4487.1
#2	2660.8	28132.	4554.5
#3	2672.4	28613.	4565.7

Sample Name: 460-111177-D-1-A@2 Acquired: 3/30/2016 18:13:53 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	233.2	1.544	-5849	142.6	.0128	119700.
Stddev	12.8	.935	.2590	1.2	.0283	607.
%RSD	5.498	60.55	44.28	.8162	221.2	.5073

#1	223.1	.5733	-.3805	143.3	-.0196	119000.
#2	228.9	1.621	-.4980	143.3	.0328	120100.
#3	247.6	2.439	-.8762	141.3	.0251	120000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1535	-.0932	-.0469	-2.198	7618.	16500.
Stddev	.1376	.1406	.2952	.450	52.	85.
%RSD	89.65	151.0	629.6	20.47	.6762	.5134

#1	-.2355	-.0539	.2153	-2.657	7593.	16560.
#2	.0054	.0236	.0107	-2.179	7678.	16530.
#3	-.2304	-.2493	-.3666	-1.758	7585.	16400.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10080.	426.0	123200.	3.857	1.406	-.1934
Stddev	81.	1.9	700.	.585	1.377	.5534
%RSD	.8017	.4437	.5680	15.17	97.88	286.1

#1	10030.	423.9	123700.	4.265	2.041	-.7883
#2	10170.	427.3	123400.	4.120	2.352	.3061
#3	10030.	426.9	122400.	3.187	-.1729	-.0980

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111177-D-1-A@2 Acquired: 3/30/2016 18:13:53 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.080	-1.539	3.081	32.59	153.2	2.327
Stddev	2.049	.194	.185	.35	1.6	.240
%RSD	98.53	12.59	5.988	1.083	1.048	10.32
#1	-4.425	-1.315	3.191	32.75	153.6	2.572
#2	-.6358	-1.635	2.868	32.83	154.7	2.092
#3	-1.178	-1.665	3.184	32.18	151.5	2.319

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1348	870.1	6.761	5541.
Stddev	.9934	4.1	.116	50.
%RSD	737.1	.4747	1.716	.9019
#1	.1481	873.0	6.630	5588.
#2	-.8652	872.0	6.852	5546.
#3	1.121	865.4	6.800	5488.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2582.2	27128.	4593.4
Stddev	8.9	415.	68.8
%RSD	.34357	1.5280	1.4976
#1	2592.3	27559.	4672.2
#2	2575.6	27093.	4563.0
#3	2578.8	26733.	4545.1

Sample Name: 460-111177-D-2-A@2 Acquired: 3/30/2016 18:17:48 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	284.4	1.757	-.5185	42.53	.0652	103500.
Stddev	13.7	.950	.1393	.35	.0863	505.
%RSD	4.800	54.08	26.87	.8260	132.5	.4885
#1	293.3	.9358	-.4959	42.87	.0162	103900.
#2	291.3	1.537	-.3918	42.55	.0145	103600.
#3	268.7	2.798	-.6678	42.16	.1649	102900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.6856	.5441	3.236	17.88	1797.	4743.
Stddev	.1362	.1412	.351	.09	16.	13.
%RSD	19.87	25.95	10.85	.4819	.8877	.2701
#1	.7283	.6571	3.265	17.97	1798.	4747.
#2	.7954	.3859	2.871	17.87	1813.	4728.
#3	.5332	.5894	3.572	17.80	1781.	4753.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4778.	197.0	34870.	10.26	9.351	4.580
Stddev	46.	1.2	63.	.52	.631	1.052
%RSD	.9578	.6188	.1796	5.073	6.748	22.98
#1	4830.	198.4	34940.	10.82	9.108	5.746
#2	4763.	196.5	34860.	9.785	8.878	3.702
#3	4742.	196.1	34820.	10.19	10.07	4.290

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111177-D-2-A@2 Acquired: 3/30/2016 18:17:48 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.2002	.3510	1.232	218.0	341.8	18.48
Stddev	2.907	2.193	.451	1.0	2.3	.23
%RSD	1452.	624.7	36.61	.4443	.6793	1.253
#1	2.157	2.875	1.443	218.4	344.1	18.40
#2	1.583	-.7361	1.540	218.8	341.9	18.74
#3	-3.140	-1.086	.7145	217.0	339.5	18.30

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3719	410.7	9.396	2658.
Stddev	.6040	.5	.043	37.
%RSD	162.4	.1310	.4601	1.410
#1	.1710	411.2	9.435	2696.
#2	1.051	410.1	9.403	2621.
#3	-.1061	410.8	9.350	2657.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2631.6	27822.	4621.3
Stddev	5.8	90.	32.9
%RSD	.22114	.32361	.71127
#1	2637.3	27898.	4652.1
#2	2631.9	27722.	4586.7
#3	2625.7	27845.	4625.1

Sample Name: 460-111187-D-1-A@2 Acquired: 3/30/2016 18:25:36 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1364.	2.679	-.2083	37.98	-.0089	17630.
Stddev	8.	.911	.5658	.21	.0235	156.
%RSD	.6060	34.00	271.6	.5594	262.9	.8841
#1	1372.	1.669	.1749	37.75	-.0336	17550.
#2	1365.	3.438	.0583	38.04	.0132	17540.
#3	1356.	2.930	-.8582	38.16	-.0064	17810.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.267	1.129	4.331	154.5	2229.	2622.
Stddev	.019	.159	.525	.3	16.	48.
%RSD	.4497	14.05	12.12	.1746	.7055	1.836
#1	4.266	.9556	3.729	154.3	2210.	2667.
#2	4.286	1.164	4.689	154.8	2236.	2629.
#3	4.248	1.267	4.577	154.4	2239.	2571.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3100.	54.53	12350.	8.169	47.65	4.414
Stddev	19.	.30	29.	.305	.40	1.214
%RSD	.5980	.5531	.2371	3.735	.8427	27.51
#1	3083.	54.20	12370.	7.926	47.88	4.611
#2	3097.	54.58	12370.	8.070	47.89	5.518
#3	3120.	54.80	12320.	8.512	47.19	3.113

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111187-D-1-A@2 Acquired: 3/30/2016 18:25:36 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1550	-1.384	3.180	375.5	196.2	8.957
Stddev	1.550	1.442	.143	2.7	1.0	.186
%RSD	999.6	104.2	4.500	.7107	.5206	2.081
#1	-0.0791	.1053	3.264	372.5	196.4	8.987
#2	1.808	-1.482	3.015	376.2	197.1	9.126
#3	-1.264	-2.774	3.261	377.7	195.0	8.757

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	3.700	86.34	47.89	2084.
Stddev	.347	.38	.16	21.
%RSD	9.388	.4391	.3442	.9836
#1	3.307	85.98	47.80	2076.
#2	3.823	86.31	47.80	2108.
#3	3.968	86.74	48.08	2070.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2712.3	28635.	4756.6
Stddev	5.2	295.	38.9
%RSD	.19132	1.0292	.81843
#1	2717.5	28719.	4715.6
#2	2707.1	28878.	4761.1
#3	2712.4	28307.	4793.0

Sample Name: 460-111194-D-1-A Acquired: 3/30/2016 18:29:28 Type: Unk

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	35.98	.9704	-.7072	.5475	.0850	174.6
Stddev	17.74	1.147	.2165	.0760	.0548	4.5
%RSD	49.30	118.2	30.61	13.88	64.48	2.601

#1	18.18	-.1759	-.5735	.4624	.1233	173.0
#2	53.66	2.119	-.5911	.5716	.0222	179.7
#3	36.09	.9682	-.9570	.6085	.1094	171.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0460	.0639	-.2180	-2.610	6.345	96.27
Stddev	.0337	.1956	.4600	.339	4.280	14.67
%RSD	73.13	306.3	211.0	12.97	67.45	15.23

#1	-.0302	-.1604	.0032	-2.363	2.064	79.59
#2	-.0232	.1527	.0897	-2.471	6.349	107.2
#3	-.0847	.1994	-.7469	-2.996	10.62	102.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51.04	1.663	157.6	-1.077	.3241	-.1745
Stddev	2.46	.076	7.2	.399	.9473	1.179
%RSD	4.828	4.565	4.567	37.05	292.3	675.7

#1	48.93	1.690	161.0	-.6908	1.397	.2392
#2	50.45	1.577	162.4	-1.053	-.3954	.7417
#3	53.75	1.721	149.3	-1.488	-.0298	-1.504

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111194-D-1-A Acquired: 3/30/2016 18:29:28 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.9948	.2102	-.3054	37.42	3.021	-.2749
Stddev	.9014	1.299	.2694	.17	.582	.0528
%RSD	90.61	617.8	88.21	.4501	19.26	19.21
#1	-.0230	1.709	-.1210	37.60	3.375	-.3266
#2	-1.804	-.5847	-.1807	37.27	2.349	-.2211
#3	-1.158	-.4936	-.6145	37.39	3.338	-.2770

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2959	.5073	.5499	36.31
Stddev	.1500	.1409	.2366	14.07
%RSD	50.70	27.77	43.02	38.75
#1	-.2661	.6159	.7999	47.29
#2	-.1630	.3482	.3296	41.20
#3	-.4586	.5579	.5202	20.45

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2797.1	29311.	4782.9
Stddev	10.8	81.	26.1
%RSD	.38445	.27722	.54507
#1	2792.9	29236.	4786.8
#2	2809.3	29397.	4755.1
#3	2789.1	29301.	4806.9

Sample Name: LCS 460-359535/2-A Acquired: 3/30/2016 18:37:27 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2474.	2384.	247.4	5166.	475.5	10120.
Stddev	6.	17.	2.2	35.	1.3	58.
%RSD	.2357	.7101	.8864	.6704	.2661	.5707

#1	2478.	2402.	249.6	5205.	475.4	10190.
#2	2467.	2379.	247.6	5150.	474.3	10090.
#3	2476.	2370.	245.2	5142.	476.8	10090.

Check ?	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	529.5	533.3	2612.	473.2	553.2	9132.
Stddev	3.1	3.5	15.	3.8	5.6	32.
%RSD	.5770	.6621	.5796	.8039	1.004	.3551

#1	533.0	537.3	2628.	477.1	549.0	9159.
#2	527.6	530.9	2608.	472.9	551.1	9096.
#3	527.9	531.5	2599.	469.5	559.5	9142.

Check ?	Chk Pass	None	Chk Pass	Chk Pass	None	None
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10240.	532.1	9698.	556.2	2633.	471.8
Stddev	68.	3.8	17.	3.5	22.	2.7
%RSD	.6686	.7088	.1803	.6263	.8489	.5752

#1	10310.	536.4	9718.	560.2	2659.	474.9
#2	10220.	529.8	9687.	554.7	2623.	469.7
#3	10180.	529.9	9690.	553.7	2618.	470.9

Check ?	None	None	None	Chk Pass	Chk Pass	None
Value						
Range						

Sample Name: LCS 460-359535/2-A Acquired: 3/30/2016 18:37:27 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	505.6	534.3	246.5	524.7	520.1	511.4
Stddev	3.6	6.1	1.3	2.4	3.6	2.8
%RSD	.7084	1.140	.5277	.4539	.6995	.5504

#1	509.7	541.2	248.0	525.5	524.3	514.5
#2	503.1	529.4	245.5	522.0	518.5	510.6
#3	503.9	532.5	246.0	526.6	517.6	509.1

Check ?	Chk Pass	None	None	Chk Pass	None	None
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	504.7	481.2	535.2	41.24
Stddev	3.8	1.4	3.1	19.70
%RSD	.7588	.2868	.5774	47.78

#1	509.0	482.8	538.4	38.93
#2	501.8	480.2	535.1	22.79
#3	503.1	480.7	532.2	61.99

Check ?	None	None	None	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2672.7	28190.	4614.9
Stddev	18.3	135.	33.1
%RSD	.68305	.47925	.71697

#1	2651.6	28036.	4645.7
#2	2683.7	28250.	4619.1
#3	2682.8	28285.	4579.9

Sample Name: CCV Acquired: 3/30/2016 18:49:16 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	127100.	2563.	1307.	10460.	976.7	129100.
Stddev	608.	17.	6.	50.	2.6	370.
%RSD	.4782	.6722	.4337	.4747	.2673	.2861

#1	126700.	2544.	1304.	10400.	974.3	129100.
#2	126800.	2567.	1303.	10460.	976.3	128800.
#3	127800.	2578.	1313.	10500.	979.5	129500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1283.	2528.	5257.	12490.	108000.	48350.
Stddev	6.	9.	18.	67.	505.	84.
%RSD	.4328	.3666	.3505	.5356	.4670	.1745

#1	1277.	2520.	5243.	12440.	107700.	48270.
#2	1284.	2527.	5250.	12460.	107800.	48340.
#3	1288.	2538.	5278.	12560.	108600.	48440.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	130700.	5150.	125700.	2614.	7963.	982.2
Stddev	590.	20.	311.	15.	35.	1.9
%RSD	.4512	.3799	.2476	.5558	.4456	.1949

#1	130600.	5157.	125700.	2598.	7925.	981.5
#2	130100.	5128.	125400.	2616.	7967.	980.8
#3	131300.	5165.	126000.	2627.	7996.	984.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/30/2016 18:49:16 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2572.	2509.	2496.	2505.	1038.	2553.
Stddev	15.	8.	11.	10.	5.	12.
%RSD	.5661	.3303	.4325	.4050	.5268	.4562
#1	2567.	2511.	2486.	2494.	1033.	2542.
#2	2561.	2500.	2494.	2508.	1037.	2551.
#3	2588.	2516.	2507.	2513.	1044.	2565.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1034.	4943.	10700.	9694.
Stddev	4.	5.	27.	53.
%RSD	.3774	.1021	.2524	.5446
#1	1030.	4948.	10690.	9662.
#2	1032.	4938.	10730.	9755.
#3	1038.	4942.	10680.	9665.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2518.8	26794.	4580.1
Stddev	13.5	113.	53.2
%RSD	.53439	.42249	1.1617
#1	2533.5	26889.	4628.6
#2	2515.7	26824.	4588.6
#3	2507.1	26668.	4523.2

Sample Name: CCB Acquired: 3/30/2016 18:52:59 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-5.147	1.571	-1.1907	.1306	-.0256	-24.37
Stddev	8.024	1.589	.3100	.0694	.1226	4.33
%RSD	155.9	101.2	162.5	53.13	479.1	17.76
#1	-.1356	2.201	.1584	.1172	.0101	-28.36
#2	-.9033	-.2370	-.2966	.2058	.0752	-19.77
#3	-14.40	2.748	-.4339	.0689	-.1620	-24.98

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0522	.0288	-.5064	-4.649	8.424	12.69
Stddev	.0848	.1110	.1033	.461	3.025	29.93
%RSD	162.5	385.9	20.40	9.925	35.91	235.8
#1	-.0089	-.0994	-.3885	-4.136	7.931	40.34
#2	-.1499	.0907	-.5813	-4.780	11.67	-19.08
#3	.0023	.0950	-.5493	-5.031	5.676	16.81

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.531	.1425	48.23	-.6694	.5611	.2406
Stddev	3.839	.1168	12.50	.2681	1.142	1.093
%RSD	108.7	81.94	25.91	40.05	203.6	454.1
#1	7.926	.0315	62.09	-.3618	-.3808	1.144
#2	.8349	.2643	37.83	-.8532	1.831	.5512
#3	1.832	.1317	44.77	-.7932	.2325	-.9736

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/30/2016 18:52:59 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2068	-1.431	.1243	-.1909	1.279	.6739
Stddev	2.324	1.128	.4402	.2496	.508	.5281
%RSD	1124.	78.87	354.2	130.8	39.70	78.36
#1	1.342	-2.605	.6317	-.0234	1.859	1.223
#2	-2.880	-.3555	-.1542	-.0714	1.058	.6299
#3	.9173	-1.331	-.1047	-.4778	.9183	.1692

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.1814	.0844	.6514	2.307
Stddev	.8004	.1076	.3867	4.614
%RSD	441.3	127.5	59.37	200.0
#1	.3527	-.0292	.8864	-.8628
#2	-.6908	.1848	.8627	.1837
#3	.8823	.0975	.2051	7.601

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2737.4	28977.	4703.5
Stddev	14.8	338.	87.7
%RSD	.54216	1.1672	1.8636
#1	2720.7	28761.	4661.4
#2	2742.7	28803.	4644.8
#3	2748.9	29367.	4804.3

Sample Name: CCVL Acquired: 3/30/2016 18:57:00 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	220.7	15.87	9.943	221.6	1.948	5196.
Stddev	6.8	2.24	.394	.7	.067	25.
%RSD	3.097	14.12	3.962	.3233	3.431	.4839

#1	219.1	16.30	9.639	222.0	1.984	5168.
#2	228.2	13.45	9.803	220.7	1.989	5203.
#3	214.8	17.87	10.39	221.9	1.871	5216.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.217	54.90	10.94	19.10	172.0	4786.
Stddev	.101	.11	.28	.24	3.7	11.
%RSD	2.382	.1991	2.567	1.253	2.179	.2303

#1	4.310	54.79	10.77	19.26	169.3	4777.
#2	4.110	55.01	10.78	19.22	170.4	4799.
#3	4.230	54.90	11.27	18.83	176.3	4783.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5255.	16.22	5064.	45.23	9.716	18.67
Stddev	7.	.04	11.	.63	.621	1.09
%RSD	.1368	.2190	.2245	1.392	6.393	5.826

#1	5248.	16.26	5068.	44.54	10.38	17.50
#2	5262.	16.19	5074.	45.78	9.142	19.65
#3	5257.	16.22	5052.	45.36	9.631	18.87

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/30/2016 18:57:00 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.84	22.41	51.67	32.13	54.96	21.16
Stddev	2.24	1.31	.67	.19	.37	.50
%RSD	10.75	5.842	1.302	.5937	.6796	2.376
#1	23.32	22.90	51.65	32.27	55.24	21.71
#2	18.96	23.40	51.00	32.22	55.11	21.04
#3	20.24	20.92	52.35	31.92	54.54	20.72

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	53.83	20.48	23.19	F 18.10
Stddev	.26	.04	.21	16.29
%RSD	.4802	.1985	.9259	90.01
#1	54.08	20.52	23.07	.4404
#2	53.85	20.47	23.07	21.31
#3	53.57	20.44	23.44	32.54

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2728.3	28898.	4640.6
Stddev	7.2	154.	21.9
%RSD	.26415	.53210	.47161
#1	2725.0	28989.	4660.4
#2	2723.3	28720.	4644.3
#3	2736.5	28984.	4617.1

Sample Name: 460-110974-D-1-H MS Acquired: 3/30/2016 19:04:57 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2272.	969.3	96.61	2052.	192.0	17640.
Stddev	25.	2.9	.15	4.	.1	96.
%RSD	1.101	.3019	.1529	.2039	.0595	.5419

#1	2262.	971.7	96.74	2050.	192.1	17750.
#2	2301.	966.0	96.64	2057.	191.9	17560.
#3	2255.	970.2	96.45	2050.	192.1	17620.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	207.2	206.3	1024.	198.1	2320.	6393.
Stddev	.6	.2	3.	.7	32.	42.
%RSD	.2855	.0959	.3344	.3475	1.378	.6561

#1	206.7	206.5	1024.	197.3	2340.	6350.
#2	207.9	206.4	1020.	198.4	2283.	6434.
#3	207.1	206.1	1027.	198.5	2337.	6394.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5219.	260.2	F 298600.	214.8	998.1	182.9
Stddev	35.	.8	2600.	1.0	4.4	.3
%RSD	.6777	.3132	.8709	.4475	.4409	.1742

#1	5243.	261.1	295600.	214.0	994.9	183.3
#2	5178.	259.8	300400.	215.8	1003.	182.7
#3	5236.	259.7	299700.	214.5	996.3	182.9

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-110974-D-1-H MS Acquired: 3/30/2016 19:04:57 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	210.7	199.1	104.5	804.7	282.1	198.1
Stddev	3.7	.4	.9	2.0	.6	.4
%RSD	1.777	.2099	.8851	.2464	.2140	.2179
#1	209.5	198.8	104.8	804.3	281.5	198.0
#2	214.9	199.6	103.5	806.9	282.3	198.6
#3	207.8	198.9	105.3	803.0	282.6	197.7

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	189.2	267.1	233.0	2203.
Stddev	.3	.5	2.3	32.
%RSD	.1523	.1812	.9758	1.468
#1	189.4	266.6	230.4	2189.
#2	189.4	267.5	234.1	2180.
#3	188.9	267.3	234.4	2240.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2638.1	27594.	4661.9
Stddev	6.7	175.	67.7
%RSD	.25371	.63345	1.4521
#1	2645.2	27399.	4583.7
#2	2631.9	27737.	4701.1
#3	2637.2	27647.	4700.8

Sample Name: LB 460-358764/1-l@5 Acquired: 3/30/2016 19:13:15 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7.306	-.2752	-.4318	.1646	.0626	1.666
Stddev	13.74	.1602	.3061	.0234	.0707	3.535
%RSD	188.0	58.23	70.90	14.24	112.9	212.2

#1	14.45	-.3348	-.7809	.1540	.1420	-2.258
#2	16.00	-.0937	-.2091	.1914	.0066	4.601
#3	-8.531	-.3971	-.3054	.1482	.0391	2.654

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0478	-.2981	.0311	.0076	-8.413	84.03
Stddev	.1203	.0986	.2493	.0734	5.462	3.60
%RSD	251.9	33.08	802.8	966.3	64.92	4.285

#1	-.0785	-.3452	-.0758	-.0404	-6.153	88.11
#2	.0850	-.1847	-.1469	-.0289	-4.445	81.32
#3	-.1497	-.3643	.3159	.0921	-14.64	82.64

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11.93	.2259	F 293300.	.2350	1.855	-.1824
Stddev	2.01	.0282	3833.	.3999	.182	.7641
%RSD	16.86	12.50	1.307	170.2	9.832	418.8

#1	10.47	.2190	288900.	.2053	1.694	-.4731
#2	14.23	.2017	296000.	-.1492	2.053	-.7586
#3	11.10	.2569	294900.	.6489	1.819	.6843

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: LB 460-358764/1-l@5 Acquired: 3/30/2016 19:13:15 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.1068	-1.595	.1029	4.687	2.613	-.0421
Stddev	.9926	1.639	.1565	.229	.629	.1685
%RSD	929.2	102.8	152.1	4.890	24.06	400.0
#1	-1.209	.2941	.0070	4.553	2.743	.1467
#2	.1731	-2.438	.0183	4.951	3.166	-.0962
#3	.7157	-2.641	.2835	4.556	1.929	-.1769

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2375	.2827	-.0163	33.79
Stddev	.1544	.4327	.0494	9.72
%RSD	64.99	153.1	303.6	28.77
#1	.0992	.7783	.0269	44.15
#2	.4040	-.0201	-.0055	32.35
#3	.2092	.0898	-.0701	24.87

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2625.0	27087.	4556.8
Stddev	20.2	291.	66.3
%RSD	.76936	1.0755	1.4551
#1	2644.7	27378.	4626.7
#2	2604.3	26796.	4494.8
#3	2626.0	27088.	4548.8

Sample Name: LCS 460-359542/2-A Acquired: 3/30/2016 19:21:25 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1954.	1856.	48.12	1982.	47.50	19110.
Stddev	26.	8.	.30	3.	.07	98.
%RSD	1.355	.4545	.6270	.1369	.1509	.5105

#1	1954.	1854.	48.30	1984.	47.57	19220.
#2	1980.	1865.	48.29	1982.	47.43	19040.
#3	1927.	1848.	47.77	1979.	47.50	19060.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.09	491.6	203.4	224.2	1045.	16930.
Stddev	.13	.6	1.5	1.7	9.	77.
%RSD	.2588	.1256	.7345	.7540	.8975	.4527

#1	48.95	492.2	204.4	223.7	1040.	16990.
#2	49.13	491.5	201.7	222.8	1056.	16960.
#3	49.20	491.0	204.2	226.1	1040.	16840.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18960.	493.8	18860.	515.1	474.5	459.0
Stddev	111.	2.4	85.	.2	1.5	1.8
%RSD	.5838	.4827	.4525	.0457	.3240	.4004

#1	19090.	496.5	18920.	515.2	473.1	458.3
#2	18890.	492.9	18880.	515.2	474.1	461.0
#3	18920.	491.9	18760.	514.8	476.1	457.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: LCS 460-359542/2-A Acquired: 3/30/2016 19:21:25 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1899.	2041.	480.6	487.6	502.2	485.4
Stddev	8.	4.	1.0	.8	1.6	.8
%RSD	.4423	.1854	.2016	.1728	.3128	.1740
#1	1906.	2036.	479.7	486.7	503.8	484.8
#2	1902.	2043.	480.5	487.7	502.2	486.3
#3	1890.	2043.	481.6	488.3	500.7	485.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	502.5	468.4	512.1	72.32
Stddev	.7	2.2	3.0	9.29
%RSD	.1403	.4723	.5936	12.84
#1	502.7	469.7	515.5	71.43
#2	501.8	469.6	511.0	82.01
#3	503.2	465.8	509.7	63.51

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2743.6	29126.	4771.3
Stddev	10.8	189.	18.0
%RSD	.39478	.64913	.37705
#1	2746.1	28915.	4765.6
#2	2752.9	29279.	4756.8
#3	2731.7	29185.	4791.4

Sample Name: 680-123425-D-2-B DU Acquired: 3/30/2016 19:25:05 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1557.	3.390	4.236	16.71	1.759	F 537800.
Stddev	44.	1.186	.088	.25	.086	8483.
%RSD	2.841	34.98	2.090	1.471	4.882	1.577
#1	1604.	2.045	4.134	16.92	1.673	547500.
#2	1549.	4.285	4.293	16.75	1.845	533800.
#3	1517.	3.839	4.282	16.44	1.760	532000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12.97	36.59	1.401	60.04	-15.55	28900.
Stddev	.14	.47	.155	.89	12.89	342.
%RSD	1.102	1.274	11.03	1.483	82.90	1.183
#1	13.12	36.91	1.571	60.41	-2.487	29070.
#2	12.95	36.81	1.360	60.68	-28.26	29130.
#3	12.83	36.05	1.270	59.02	-15.90	28510.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34410.	F 25580.	F 1252000.	230.6	-3.585	-3.161
Stddev	623.	394.	38010.	2.4	1.094	.249
%RSD	1.809	1.541	3.035	1.021	30.52	7.880
#1	35100.	26030.	1292000.	233.1	-2.324	-3.206
#2	34250.	25280.	1249000.	230.2	-4.152	-2.893
#3	33890.	25420.	1216000.	228.4	-4.280	-3.385

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		10000.	250000.			
Low Limit		-15.00	-5000.			

Sample Name: 680-123425-D-2-B DU Acquired: 3/30/2016 19:25:05 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.270	16.38	-2.678	566.6	131.3	1.406
Stddev	.388	.89	.189	5.7	1.6	.133
%RSD	7.370	5.429	7.058	1.010	1.200	9.466
#1	4.935	15.63	-2.805	573.2	132.2	1.482
#2	5.696	16.16	-2.768	563.2	132.2	1.485
#3	5.179	17.36	-2.461	563.4	129.5	1.253

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-8184	4826.	2.867	13990.
Stddev	.8418	51.	.085	53.
%RSD	102.9	1.057	2.978	.3753
#1	-1.293	4856.	2.863	14050.
#2	-1.315	4855.	2.954	13960.
#3	.1535	4767.	2.783	13970.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2679.5	28244.	5009.0
Stddev	30.1	485.	99.9
%RSD	1.1232	1.7176	1.9951
#1	2644.9	27713.	4926.8
#2	2694.1	28354.	4980.0
#3	2699.5	28664.	5120.2

Sample Name: sd 680-123425-D-2-A@ Acquired: 3/30/2016 19:33:44 Type: Unk
 Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	423.7	3.725	.7566	3.534	.3540	114000.
Stddev	14.1	3.273	.8482	.073	.0315	209.
%RSD	3.335	87.87	112.1	2.081	8.903	.1837

#1	437.1	4.007	1.733	3.454	.3193	114000.
#2	408.9	6.848	.2042	3.598	.3809	114100.
#3	424.9	.3200	.3323	3.550	.3618	113700.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.814	7.791	.4445	9.754	-2.607	5753.
Stddev	.099	.311	.1359	.084	2.438	28.
%RSD	3.526	3.996	30.56	.8601	93.54	.4841

#1	2.891	7.837	.5765	9.657	-2.509	5785.
#2	2.849	7.459	.3051	9.804	-.2185	5738.
#3	2.702	8.076	.4520	9.801	-5.092	5736.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7655.	5991.	F 263700.	50.37	.2816	-2.275
Stddev	10.	12.	1370.	.19	.3783	1.323
%RSD	.1354	.2073	.5195	.3851	134.3	58.16

#1	7652.	6003.	262600.	50.24	.6978	-3.512
#2	7666.	5992.	265300.	50.60	-.0412	-.8801
#3	7646.	5979.	263300.	50.28	.1883	-2.432

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: sd 680-123425-D-2-A@ Acquired: 3/30/2016 19:33:44 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.9964	4.199	-.8082	124.8	28.15	.1199
Stddev	1.429	.304	.3164	.7	.52	.0614
%RSD	143.4	7.249	39.15	.5291	1.835	51.26
#1	-1.570	3.857	-1.151	124.4	27.61	.1528
#2	.5509	4.301	-.5267	124.4	28.19	.1578
#3	2.595	4.440	-.7471	125.5	28.64	.0490

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2202	1008.	5.610	2669.
Stddev	.7975	1.	.103	25.
%RSD	362.2	.0672	1.840	.9406
#1	1.112	1009.	5.692	2649.
#2	-.4232	1009.	5.644	2662.
#3	-.0287	1008.	5.494	2697.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2721.3	28399.	4833.9
Stddev	11.2	84.	18.9
%RSD	.41302	.29420	.39184
#1	2732.2	28326.	4845.0
#2	2721.9	28381.	4812.0
#3	2709.7	28490.	4844.7

Sample Name: CCV Acquired: 3/30/2016 19:41:56 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	122200.	2463.	1244.	10010.	948.6	122900.
Stddev	707.	2.	2.	13.	3.4	494.
%RSD	.5784	.0757	.1535	.1337	.3556	.4022

#1	123000.	2461.	1244.	10020.	950.4	122700.
#2	121700.	2464.	1246.	9998.	944.7	122500.
#3	121800.	2464.	1242.	10020.	950.8	123400.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1236.	2440.	5002.	12100.	102400.	47160.
Stddev	3.	5.	13.	4.	182.	184.
%RSD	.2106	.2216	.2681	.0327	.1782	.3911

#1	1236.	2441.	5002.	12100.	102500.	47350.
#2	1233.	2435.	4988.	12100.	102100.	46980.
#3	1238.	2445.	5015.	12100.	102500.	47140.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124400.	4923.	120700.	2507.	7596.	955.9
Stddev	300.	14.	545.	1.	6.	1.0
%RSD	.2408	.2771	.4520	.0222	.0820	.1078

#1	124200.	4916.	121300.	2508.	7601.	954.8
#2	124200.	4914.	120200.	2507.	7589.	956.4
#3	124700.	4939.	120500.	2506.	7598.	956.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/30/2016 19:41:56 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2487.	2444.	2402.	2415.	997.7	2459.
Stddev	7.	8.	6.	8.	1.5	3.
%RSD	.2763	.3443	.2385	.3361	.1461	.1232
#1	2495.	2436.	2398.	2414.	998.9	2459.
#2	2487.	2444.	2399.	2408.	998.1	2456.
#3	2481.	2453.	2409.	2424.	996.1	2462.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	993.8	4805.	10190.	9424.
Stddev	2.8	19.	113.	53.
%RSD	.2787	.4019	1.112	.5657
#1	991.0	4826.	10070.	9434.
#2	993.8	4788.	10200.	9471.
#3	996.5	4801.	10290.	9366.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2634.4	28110.	4797.0
Stddev	14.9	186.	68.9
%RSD	.56618	.66284	1.4363
#1	2617.7	28020.	4745.4
#2	2639.2	28324.	4875.3
#3	2646.4	27986.	4770.5

Sample Name: CCB Acquired: 3/30/2016 19:45:41 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.757	.1986	-.3456	.1956	.0377	-9.295
Stddev	13.57	1.048	.4460	.1488	.0303	1.665
%RSD	285.3	527.8	129.0	76.05	80.28	17.91

#1	-20.35	.4800	-.3976	.3603	.0525	-7.554
#2	1.718	-.9617	.1240	.0708	.0029	-10.87
#3	4.364	1.078	-.7633	.1558	.0578	-9.459

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0248	.0741	-.0745	-3.571	-6.958	26.95
Stddev	.0342	.0596	.1834	.246	8.260	26.07
%RSD	138.0	80.36	246.3	6.899	118.7	96.72

#1	.0321	.1356	-.0421	-3.412	2.211	27.83
#2	.0548	.0166	.0906	-3.855	-13.82	.4544
#3	-.0125	.0701	-.2719	-3.445	-9.269	52.57

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.073	.6764	183.0	-.4923	.3581	-.1705
Stddev	1.075	.1361	19.6	.1247	.7256	1.298
%RSD	51.85	20.12	10.73	25.32	202.6	761.3

#1	1.129	.8195	204.9	-.3507	-.4797	1.328
#2	1.847	.5487	166.9	-.5409	.7642	-.9390
#3	3.243	.6608	177.2	-.5853	.7897	-.9010

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/30/2016 19:45:41 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8433	-.1257	-.1391	-.0548	1.735	.5383
Stddev	2.498	.8232	.3089	.2336	.740	.3297
%RSD	296.2	654.8	222.1	426.3	42.61	61.24
#1	-2.472	.8112	-.2620	.2118	2.486	.9190
#2	2.032	-.4555	.2124	-.2233	1.713	.3504
#3	-2.090	-.7329	-.3677	-.1529	1.007	.3456

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2371	.2613	.6172	-13.57
Stddev	.3683	.1897	.3622	7.72
%RSD	155.3	72.60	58.68	56.87
#1	.1051	.2853	.6672	-6.310
#2	-.1895	.0608	.2326	-12.73
#3	-.6269	.4379	.9518	-21.68

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2862.0	30162.	4882.3
Stddev	7.9	123.	45.1
%RSD	.27536	.40683	.92306
#1	2854.6	30020.	4832.9
#2	2861.0	30235.	4892.9
#3	2870.3	30230.	4921.1

Sample Name: pds 680-123425-D-2-A Acquired: 3/30/2016 19:53:31 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3321.	1804.	50.74	1680.	42.32	F 538000.
Stddev	4.	5.	1.08	8.	.08	1155.
%RSD	.1190	.3004	2.123	.4608	.1935	.2147
#1	3317.	1802.	50.22	1676.	42.39	538200.
#2	3324.	1799.	50.02	1674.	42.23	536700.
#3	3321.	1810.	51.98	1689.	42.34	539000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	53.24	439.9	173.8	270.5	853.7	44530.
Stddev	.16	2.5	.9	1.0	10.0	185.
%RSD	.2970	.5659	.5052	.3808	1.168	.4163
#1	53.14	438.1	172.8	269.5	849.1	44410.
#2	53.16	438.9	174.0	270.5	846.9	44430.
#3	53.42	442.7	174.5	271.5	865.2	44740.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49680.	F 25420.	F 1231000.	639.6	372.8	428.1
Stddev	201.	180.	30310.	3.5	.3	2.6
%RSD	.4048	.7074	2.463	.5430	.0873	.6110
#1	49550.	25250.	1265000.	636.8	372.5	425.1
#2	49570.	25410.	1221000.	638.5	373.1	429.7
#3	49910.	25610.	1206000.	643.5	372.7	429.5

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		10000.	250000.			
Low Limit		-15.00	-5000.			

Sample Name: pds 680-123425-D-2-A Acquired: 3/30/2016 19:53:31 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1898.	1543.	423.3	959.6	571.1	417.0
Stddev	13.	9.	4.5	3.9	4.2	3.6
%RSD	.6585	.6139	1.061	.4028	.7428	.8697
#1	1894.	1538.	418.9	958.1	567.6	414.6
#2	1888.	1538.	423.1	956.6	569.8	415.2
#3	1912.	1554.	427.9	964.0	575.8	421.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	415.9	5149.	447.7	13630.
Stddev	2.6	15.	2.7	180.
%RSD	.6311	.2915	.6004	1.321
#1	413.3	5148.	445.4	13440.
#2	415.8	5135.	447.1	13670.
#3	418.6	5165.	450.7	13790.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2718.9	28604.	5109.1
Stddev	9.6	133.	57.0
%RSD	.35389	.46581	1.1160
#1	2726.5	28685.	5055.7
#2	2722.2	28676.	5169.1
#3	2708.1	28450.	5102.5

Sample Name: 680-123425-D-8-A Acquired: 3/30/2016 20:05:42 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	489.0	5.603	2.448	27.95	-.0500	F 653200.
Stddev	29.0	1.533	.175	.22	.0319	3359.
%RSD	5.922	27.36	7.143	.7861	63.86	.5142
#1	461.8	5.892	2.601	27.87	-.0174	653400.
#2	519.5	6.971	2.258	27.78	-.0812	649800.
#3	485.6	3.946	2.486	28.20	-.0513	656500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0351	4.877	-4.241	14.64	23990.	8982.
Stddev	.1099	.237	.421	.31	74.	59.
%RSD	313.0	4.871	9.927	2.117	.3069	.6528
#1	-.0879	5.127	-4.110	14.97	23990.	8942.
#2	.0696	4.654	-3.901	14.59	24070.	9049.
#3	.1236	4.851	-4.712	14.36	23920.	8955.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	75260.	F 15100.	F 608100.	15.44	-3.105	-2.524
Stddev	190.	43.	2043.	.50	.414	1.777
%RSD	.2523	.2852	.3359	3.244	13.34	70.43
#1	75480.	15150.	609200.	15.01	-2.650	-2.357
#2	75130.	15080.	605700.	15.99	-3.459	-.8356
#3	75160.	15070.	609300.	15.32	-3.207	-4.379

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		10000.	250000.			
Low Limit		-15.00	-5000.			

Sample Name: 680-123425-D-8-A Acquired: 3/30/2016 20:05:42 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.853	8.910	-4.980	6.512	306.7	1.044
Stddev	1.591	3.364	.3829	.079	2.7	.105
%RSD	55.77	37.75	76.88	1.215	.8863	10.05
#1	2.448	12.79	-.9388	6.523	305.1	.9450
#2	4.608	6.938	-.3074	6.585	305.2	1.032
#3	1.504	6.998	-.2479	6.428	309.9	1.154

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.4676	1812.	2.765	15030.
Stddev	.7413	9.	.143	133.
%RSD	158.5	.4741	5.160	.8832
#1	-.1121	1817.	2.626	14890.
#2	1.303	1816.	2.911	15040.
#3	.2119	1802.	2.757	15150.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2462.4	26285.	4586.1
Stddev	12.5	62.	11.2
%RSD	.50666	.23424	.24472
#1	2461.0	26225.	4574.3
#2	2475.6	26282.	4596.6
#3	2450.7	26348.	4587.4

Sample Name: LCS 460-359546/2-A Acquired: 3/30/2016 20:17:51 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1900.	1812.	47.13	1929.	45.98	18750.
Stddev	3.	3.	.37	1.	.09	65.
%RSD	.1466	.1852	.7747	.0721	.1899	.3488

#1	1901.	1815.	47.10	1930.	45.93	18820.
#2	1903.	1809.	46.78	1929.	45.93	18710.
#3	1897.	1810.	47.50	1928.	46.08	18710.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	47.97	480.4	198.7	219.8	1012.	16570.
Stddev	.22	.4	1.0	1.7	13.	45.
%RSD	.4516	.0837	.5163	.7755	1.311	.2686

#1	48.19	480.0	198.2	219.7	1010.	16570.
#2	47.96	480.8	198.0	218.2	1000.	16620.
#3	47.75	480.3	199.9	221.6	1027.	16530.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18580.	485.7	18460.	501.0	460.6	446.3
Stddev	28.	.8	96.	1.3	1.5	2.8
%RSD	.1508	.1551	.5211	.2630	.3244	.6166

#1	18570.	486.6	18500.	499.6	460.3	443.2
#2	18560.	485.4	18540.	502.2	462.2	448.1
#3	18610.	485.2	18360.	501.2	459.2	447.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: LCS 460-359546/2-A Acquired: 3/30/2016 20:17:51 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1849.	1990.	466.7	476.2	487.9	472.5
Stddev	11.	7.	.9	.8	1.1	1.5
%RSD	.5819	.3718	.1920	.1687	.2290	.3083

#1	1845.	1989.	467.0	476.1	486.8	471.6
#2	1861.	1998.	465.7	477.1	489.0	474.2
#3	1841.	1984.	467.5	475.5	488.0	471.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	487.5	457.8	496.9	87.73
Stddev	2.1	2.2	1.7	12.44
%RSD	.4278	.4773	.3342	14.18

#1	486.9	458.3	495.8	101.9
#2	489.8	459.7	496.2	78.73
#3	485.8	455.4	498.9	82.54

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2808.8	29580.	4856.2
Stddev	4.0	73.	40.7
%RSD	.14228	.24823	.83855

#1	2810.7	29495.	4829.0
#2	2811.4	29623.	4836.6
#3	2804.2	29621.	4903.0

Sample Name: 680-123425-E-6-B DU Acquired: 3/30/2016 20:21:28 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	376.1	2.705	-.2830	36.12	.0809	222100.
Stddev	14.3	2.222	.0764	.27	.0643	567.
%RSD	3.813	82.15	27.00	.7506	79.48	.2554
#1	364.9	3.572	-.2277	36.42	.1501	222700.
#2	392.3	4.364	-.2510	36.04	.0694	221500.
#3	371.1	.1802	-.3702	35.89	.0231	222000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.900	.4603	25.48	6.239	369.3	9789.
Stddev	.039	.1846	.33	.305	4.5	35.
%RSD	.7952	40.11	1.310	4.883	1.231	.3524
#1	4.945	.6461	25.79	6.502	370.4	9755.
#2	4.877	.2769	25.13	5.905	373.2	9824.
#3	4.878	.4579	25.51	6.309	364.3	9790.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15780.	560.3	F 325000.	9.191	-.5250	-1.455
Stddev	17.	1.6	3197.	.619	.4553	2.754
%RSD	.1088	.2767	.9836	6.736	86.73	189.2
#1	15790.	562.1	327800.	9.674	.0007	1.637
#2	15760.	559.6	321500.	9.406	-.7791	-2.358
#3	15780.	559.2	325800.	8.493	-.7965	-3.645

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 680-123425-E-6-B DU Acquired: 3/30/2016 20:21:28 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8733	1.446	-.1269	56.28	132.2	.1040
Stddev	.8615	3.503	.3348	.19	.3	.1115
%RSD	98.65	242.4	263.7	.3309	.2477	107.3
#1	.6879	5.079	-.0739	56.32	132.1	-.0242
#2	1.812	1.169	-.4850	56.08	132.0	.1574
#3	.1195	-1.911	.1781	56.45	132.6	.1788

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.1408	1167.	7.835	6329.
Stddev	.9853	3.	.159	81.
%RSD	699.9	.2755	2.033	1.285
#1	-.2386	1167.	8.019	6257.
#2	.8898	1164.	7.752	6418.
#3	-1.073	1171.	7.734	6312.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2643.7	27995.	4778.7
Stddev	3.6	119.	37.8
%RSD	.13578	.42529	.79112
#1	2644.2	27891.	4736.7
#2	2639.8	28125.	4810.1
#3	2646.9	27967.	4789.2

Sample Name: sd 680-123425-E-6-A Acquired: 3/30/2016 20:29:36 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	104.4	1.293	.1254	7.017	-.0564	42870.
Stddev	12.7	.784	.6291	.064	.0795	268.
%RSD	12.16	60.62	501.8	.9126	141.0	.6261
#1	91.30	.8747	.7107	7.020	-.0755	43080.
#2	105.2	.8073	.2053	7.079	.0309	42960.
#3	116.7	2.197	-.5399	6.951	-.1246	42570.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.030	-.0225	4.894	-1.303	71.95	1853.
Stddev	.069	.0257	.055	.162	8.86	32.
%RSD	6.698	114.6	1.117	12.40	12.31	1.727
#1	.9826	.0002	4.896	-1.485	81.75	1874.
#2	.9975	-.0171	4.948	-1.178	69.58	1816.
#3	1.109	-.0504	4.838	-1.245	64.51	1869.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3185.	113.3	61650.	1.284	.2494	-.6679
Stddev	13.	.4	207.	.172	.9965	.5935
%RSD	.3986	.3192	.3352	13.40	399.6	88.86
#1	3199.	113.5	61870.	1.191	.0263	-.8177
#2	3180.	113.6	61610.	1.178	-.6167	-.0138
#3	3175.	112.9	61460.	1.482	1.339	-1.172

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 680-123425-E-6-A Acquired: 3/30/2016 20:29:36 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.8080	.0503	-.0450	11.54	25.92	-.1707
Stddev	3.660	1.288	.2572	.03	.54	.2218
%RSD	453.0	2562.	571.3	.2867	2.068	129.9
#1	-1.251	1.537	-.2094	11.52	25.65	-.4265
#2	4.844	-.7201	-.1771	11.53	25.58	-.0534
#3	-2.295	-.6661	.2514	11.58	26.54	-.0322

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0381	226.4	5.084	1144.
Stddev	.9097	1.0	.192	14.
%RSD	2386.	.4259	3.779	1.253
#1	-.3520	227.2	5.164	1143.
#2	1.078	226.5	5.224	1159.
#3	-.6115	225.3	4.865	1130.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2810.9	29356.	4894.9
Stddev	14.3	209.	28.2
%RSD	.50961	.71042	.57656
#1	2820.3	29379.	4927.5
#2	2794.4	29137.	4877.8
#3	2818.1	29552.	4879.5

Sample Name: CCVL Acquired: 3/30/2016 20:41:12 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	221.0	15.98	9.515	215.7	1.937	5076.
Stddev	3.1	1.29	.102	.3	.040	19.
%RSD	1.415	8.085	1.071	.1483	2.073	.3792

#1	218.5	15.20	9.629	215.4	1.947	5087.
#2	224.5	17.47	9.483	216.0	1.972	5087.
#3	220.0	15.26	9.434	215.9	1.893	5054.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.191	52.90	10.72	19.99	170.5	4695.
Stddev	.017	.16	.29	.43	6.7	36.
%RSD	.4020	.2982	2.675	2.133	3.929	.7700

#1	4.192	53.07	10.59	19.56	164.7	4736.
#2	4.207	52.76	11.05	20.41	177.9	4681.
#3	4.173	52.86	10.52	20.00	169.0	4668.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5134.	16.08	5007.	43.40	10.63	19.53
Stddev	26.	.13	25.	.45	.40	.59
%RSD	.5065	.8177	.4899	1.028	3.784	3.032

#1	5147.	15.96	5032.	43.36	10.22	19.35
#2	5152.	16.22	5006.	42.97	11.03	19.05
#3	5104.	16.07	4983.	43.86	10.63	20.19

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/30/2016 20:41:12 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.14	21.14	49.93	30.64	54.23	20.44
Stddev	1.49	.81	.14	.35	.48	.13
%RSD	7.811	3.839	.2723	1.143	.8830	.6422
#1	19.12	21.52	49.91	30.63	54.75	20.38
#2	20.64	21.70	49.81	31.00	54.15	20.59
#3	17.65	20.21	50.08	30.30	53.80	20.35

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	52.58	19.98	22.64	F .3548
Stddev	.13	.06	.13	6.337
%RSD	.2487	.3110	.5895	1786.
#1	52.54	20.01	22.54	-.1414
#2	52.72	19.91	22.79	-5.719
#3	52.47	20.02	22.60	6.925

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2806.5	29840.	4846.5
Stddev	10.8	188.	24.8
%RSD	.38360	.63123	.51249
#1	2800.4	29755.	4834.2
#2	2800.2	29710.	4830.2
#3	2819.0	30056.	4875.1

Sample Name: pds 680-123425-E-6-A Acquired: 3/30/2016 20:48:53 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2246.	1911.	48.17	1916.	45.54	237300.
Stddev	24.	3.	.54	12.	.17	977.
%RSD	1.074	.1364	1.130	.6075	.3652	.4117
#1	2272.	1913.	48.79	1927.	45.41	237300.
#2	2225.	1910.	47.94	1918.	45.48	238300.
#3	2241.	1908.	47.78	1904.	45.73	236400.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51.34	464.5	220.5	236.0	1357.	26740.
Stddev	.09	1.6	1.0	.7	9.	139.
%RSD	.1703	.3427	.4512	.2804	.6975	.5196
#1	51.43	465.6	221.1	235.4	1348.	26900.
#2	51.34	465.4	221.1	236.7	1367.	26640.
#3	51.26	462.7	219.4	236.1	1357.	26680.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	33610.	1018.	F 335800.	490.0	437.7	458.9
Stddev	139.	4.	7791.	2.6	4.0	2.0
%RSD	.4132	.3837	2.320	.5402	.9106	.4395
#1	33660.	1018.	344700.	491.6	442.1	458.8
#2	33720.	1022.	332300.	491.4	436.8	461.0
#3	33460.	1015.	330400.	486.9	434.3	457.0

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: pds 680-123425-E-6-A Acquired: 3/30/2016 20:48:53 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1960.	1841.	473.6	527.5	626.2	471.3
Stddev	5.	5.	2.6	1.7	2.1	1.2
%RSD	.2743	.2912	.5533	.3136	.3337	.2534
#1	1965.	1837.	470.6	527.1	627.9	472.0
#2	1962.	1847.	475.7	529.3	626.8	471.9
#3	1954.	1838.	474.4	526.0	623.9	469.9

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	481.7	1607.	500.1	6377.
Stddev	1.7	11.	2.9	23.
%RSD	.3573	.6677	.5782	.3568
#1	479.8	1619.	502.2	6385.
#2	483.1	1598.	501.2	6394.
#3	482.1	1604.	496.8	6351.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2650.0	28015.	4808.5
Stddev	19.3	176.	55.0
%RSD	.72806	.62725	1.1441
#1	2633.1	27893.	4746.8
#2	2645.8	27935.	4826.2
#3	2671.0	28216.	4852.5

Sample Name: 680-123425-E-2-A Acquired: 3/30/2016 20:52:39 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2157.	5.897	5.105	17.27	2.194	F 475200.
Stddev	17.	1.968	.371	.21	.142	1815.
%RSD	.7794	33.38	7.264	1.194	6.492	.3820
#1	2146.	5.686	5.445	17.44	2.030	476100.
#2	2149.	4.043	5.160	17.04	2.264	476400.
#3	2176.	7.962	4.709	17.31	2.288	473100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	14.77	44.85	1.139	76.35	51.26	28370.
Stddev	.17	.28	.806	.79	15.08	287.
%RSD	1.125	.6183	70.73	1.032	29.42	1.010
#1	14.90	45.17	1.410	77.06	55.06	28180.
#2	14.82	44.70	.2331	76.49	34.64	28230.
#3	14.58	44.69	1.775	75.50	64.07	28700.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	30720.	F 28810.	F 1096000.	260.5	-3.122	-4.171
Stddev	92.	151.	8980.	.5	1.159	.094
%RSD	.2997	.5253	.8197	.2098	37.13	2.259
#1	30770.	28940.	1096000.	260.2	-2.031	-4.073
#2	30770.	28850.	1086000.	260.1	-2.995	-4.179
#3	30610.	28650.	1104000.	261.1	-4.339	-4.261

Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		10000.	250000.			
Low Limit		-15.00	-5000.			

Sample Name: 680-123425-E-2-A Acquired: 3/30/2016 20:52:39 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6.997	20.75	-2.708	640.6	115.9	1.552
Stddev	2.297	.55	.291	1.3	.7	.102
%RSD	32.83	2.642	10.76	.2036	.6450	6.594
#1	9.611	20.73	-2.873	641.8	116.7	1.652
#2	6.082	20.22	-2.372	640.6	115.3	1.447
#3	5.298	21.31	-2.880	639.2	115.6	1.557

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3144	4274.	4.559	14330.
Stddev	.6202	25.	.247	113.
%RSD	197.3	.5788	5.421	.7891
#1	.9912	4252.	4.836	14420.
#2	.1787	4270.	4.479	14210.
#3	-.2267	4300.	4.362	14380.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2865.1	29994.	5405.4
Stddev	18.8	48.	90.9
%RSD	.65724	.16130	1.6810
#1	2880.3	30026.	5490.6
#2	2871.0	29938.	5415.8
#3	2844.0	30018.	5309.7

Sample Name: 680-123425-E-8-A Acquired: 3/30/2016 21:01:03 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1196.	4.440	1.435	38.08	.0564	F 633600.
Stddev	9.	1.294	.426	.17	.1622	5151.
%RSD	.7933	29.14	29.66	.4376	287.6	.8130
#1	1206.	4.271	1.243	38.23	.2436	630700.
#2	1188.	5.810	1.140	38.11	-.0330	639500.
#3	1193.	3.239	1.923	37.90	-.0414	630500.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4112	4.875	-3.285	17.74	24640.	8935.
Stddev	.1241	.387	.288	.29	65.	14.
%RSD	30.18	7.940	8.764	1.655	.2651	.1577
#1	.2704	5.203	-3.038	17.76	24590.	8944.
#2	.5046	4.448	-3.601	17.43	24710.	8943.
#3	.4587	4.974	-3.216	18.02	24610.	8919.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	72810.	F 14660.	F 596800.	14.85	-2.753	-3.081
Stddev	273.	39.	6886.	.81	1.678	1.035
%RSD	.3747	.2646	1.154	5.477	60.95	33.58
#1	72640.	14680.	599400.	15.48	-1.306	-4.024
#2	73130.	14690.	589000.	15.13	-2.359	-3.244
#3	72680.	14620.	602000.	13.93	-4.592	-1.974
Check ?	Chk Pass	Chk Fail	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit		10000.	250000.			
Low Limit		-15.00	-5000.			

Sample Name: 680-123425-E-8-A Acquired: 3/30/2016 21:01:03 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.747	11.30	.3954	9.560	297.4	1.036
Stddev	5.104	3.66	.7011	.164	.6	.157
%RSD	292.1	32.39	177.3	1.716	.2173	15.13
#1	6.777	11.22	.9552	9.372	298.0	1.126
#2	1.891	7.679	.6220	9.670	297.5	.8552
#3	-3.427	15.00	-.3910	9.640	296.7	1.127

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.8232	1769.	29.20	16080.
Stddev	.5906	7.	.35	166.
%RSD	71.74	.4014	1.212	1.035
#1	.7490	1774.	29.61	16250.
#2	1.447	1761.	29.01	16080.
#3	.2733	1773.	28.98	15920.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2494.1	26773.	4668.1
Stddev	7.8	139.	28.9
%RSD	.31414	.51766	.61914
#1	2494.6	26930.	4699.4
#2	2486.0	26667.	4642.3
#3	2501.6	26723.	4662.8

Sample Name: 460-111158-G-1-A Acquired: 3/30/2016 21:09:12 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	921.9	2.065	-4.959	64.50	.0113	56500.
Stddev	6.4	.656	.1917	.04	.0192	133.
%RSD	.6931	31.77	38.65	.0616	169.0	.2351
#1	917.7	1.459	-.7172	64.48	.0152	56360.
#2	918.7	2.762	-.3799	64.55	-.0095	56540.
#3	929.2	1.976	-.3907	64.48	.0283	56620.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0002	1.094	2.806	5.983	2410.	6793.
Stddev	.1503	.124	.213	.173	6.	30.
%RSD	92920.	11.35	7.581	2.892	.2662	.4372
#1	.1434	1.092	2.853	5.841	2417.	6822.
#2	-.1563	1.218	2.574	5.932	2404.	6763.
#3	.0124	.9702	2.992	6.176	2408.	6795.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21300.	199.1	42080.	8.224	-1.143	2.093
Stddev	72.	1.6	39.	.305	.262	1.550
%RSD	.3373	.8260	.0937	3.707	22.88	74.05
#1	21320.	198.0	42080.	8.054	-1.443	.7195
#2	21220.	201.0	42040.	8.042	-.9621	1.786
#3	21360.	198.4	42120.	8.576	-1.025	3.773

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111158-G-1-A Acquired: 3/30/2016 21:09:12 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.0253	-1.241	1.557	78.78	46.91	4.149
Stddev	1.584	1.120	.459	.18	.24	.312
%RSD	6255.	90.21	29.50	.2257	.5079	7.520
#1	1.230	-1.363	1.046	78.62	46.76	3.860
#2	.4989	-2.295	1.692	78.97	46.78	4.480
#3	-1.805	-.0655	1.934	78.74	47.18	4.105

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	13.88	197.5	57.10	6549.
Stddev	.75	.7	.80	46.
%RSD	5.428	.3395	1.399	.7075
#1	13.03	196.7	57.54	6516.
#2	14.46	197.9	56.18	6602.
#3	14.15	197.8	57.59	6530.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2784.2	29574.	4844.6
Stddev	3.2	170.	11.9
%RSD	.11439	.57624	.24567
#1	2783.3	29724.	4856.2
#2	2781.6	29610.	4845.2
#3	2787.8	29389.	4832.4

Sample Name: 460-111158-I-11-A Acquired: 3/30/2016 21:13:07 Type: Unk

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	552.4	1.068	-.2379	84.03	.0527	66070.
Stddev	22.4	.744	.1115	.48	.0689	240.
%RSD	4.049	69.65	46.85	.5739	130.8	.3632

#1	549.2	1.704	-.1481	83.58	.0771	66120.
#2	576.2	.2500	-.2031	83.96	.1062	66290.
#3	531.8	1.249	-.3627	84.54	-.0251	65810.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0084	1.748	.4291	-1.237	1068.	8246.
Stddev	.0277	.281	.3139	.150	10.	49.
%RSD	331.2	16.06	73.15	12.14	.9746	.5952

#1	.0253	1.425	.4866	-1.246	1065.	8222.
#2	.0234	1.884	.7103	-1.083	1079.	8303.
#3	-.0236	1.935	.0904	-1.383	1059.	8214.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	25740.	970.8	121900.	4.351	-1.358	1.426
Stddev	75.	3.0	715.	.503	.539	.830
%RSD	.2926	.3041	.5868	11.56	39.66	58.22

#1	25810.	972.5	122200.	4.725	-1.960	1.962
#2	25760.	972.5	122300.	4.549	-.9214	.4697
#3	25660.	967.4	121000.	3.779	-1.193	1.846

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111158-I-11-A Acquired: 3/30/2016 21:13:07 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.788	-2.274	.9731	5.795	90.04	.1588
Stddev	2.147	2.246	.0413	.222	.51	.0228
%RSD	120.0	98.77	4.249	3.836	.5623	14.32
#1	4.209	-3.676	.9493	5.543	89.62	.1327
#2	.1170	.3165	.9491	5.875	89.88	.1742
#3	1.039	-3.463	1.021	5.966	90.60	.1697

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.264	272.3	27.86	8917.
Stddev	.836	1.2	.39	59.
%RSD	66.11	.4222	1.389	.6637
#1	.3395	272.6	27.63	8933.
#2	1.965	273.3	27.65	8851.
#3	1.487	271.1	28.31	8966.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2720.6	28729.	4780.7
Stddev	8.2	221.	51.5
%RSD	.30301	.76835	1.0769
#1	2728.0	28702.	4803.2
#2	2711.7	28523.	4721.8
#3	2722.1	28962.	4817.2

Sample Name: 460-111166-E-2-A Acquired: 3/30/2016 21:17:02 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1538.	1.738	.0464	266.0	.0137	152800.
Stddev	19.	.762	.4260	.2	.1042	578.
%RSD	1.210	43.81	918.1	.0692	763.5	.3785

#1	1559.	2.613	.3121	266.1	-.1067	153200.
#2	1526.	1.220	-.4450	265.8	.0741	152100.
#3	1528.	1.383	.2721	266.1	.0736	153100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0682	.5311	3.698	-2.123	1126.	15460.
Stddev	.0737	.2174	.351	.207	12.	104.
%RSD	108.1	40.92	9.481	9.768	1.032	.6731

#1	-.1359	.2848	4.099	-1.884	1117.	15460.
#2	.0103	.6126	3.546	-2.252	1120.	15360.
#3	-.0790	.6960	3.449	-2.233	1139.	15570.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	21670.	92.71	45170.	2.382	-2.834	-2.055
Stddev	56.	.32	194.	.232	1.004	.454
%RSD	.2578	.3485	.4287	9.741	35.43	22.08

#1	21700.	92.69	45210.	2.485	-3.705	-2.441
#2	21600.	92.39	44960.	2.117	-3.061	-2.170
#3	21700.	93.04	45340.	2.546	-1.736	-1.555

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111166-E-2-A Acquired: 3/30/2016 21:17:02 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1038	-.8870	5.430	5.434	93.94	3.204
Stddev	1.377	2.385	.291	.248	.66	.212
%RSD	1326.	268.9	5.357	4.562	.7053	6.615
#1	-.7924	-3.326	5.094	5.484	93.39	3.204
#2	-.5851	1.440	5.594	5.653	93.75	3.415
#3	1.689	-.7753	5.602	5.165	94.67	2.992

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3691	499.9	51.31	13150.
Stddev	.4891	1.9	1.35	139.
%RSD	132.5	.3858	2.627	1.057
#1	.1459	499.4	50.46	13020.
#2	.0315	498.3	50.61	13300.
#3	.9299	502.0	52.87	13140.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2706.9	28974.	4827.3
Stddev	4.1	176.	55.8
%RSD	.14991	.60907	1.1551
#1	2703.7	28987.	4792.1
#2	2711.5	29143.	4891.6
#3	2705.5	28791.	4798.2

Sample Name: 460-111166-E-3-A Acquired: 3/30/2016 21:20:55 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2202.	2.223	-3627	78.00	.1019	105300.
Stddev	3.	2.081	.3363	.15	.1040	204.
%RSD	.1271	93.61	92.71	.1866	102.0	.1942
#1	2200.	2.238	-.0695	78.13	.0519	105100.
#2	2205.	.1347	-.7298	78.02	.2215	105200.
#3	2202.	4.297	-.2888	77.85	.0324	105500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0026	1.340	10.79	5.604	2035.	45640.
Stddev	.1054	.159	.30	.340	5.	163.
%RSD	4045.	11.84	2.745	6.060	.2224	.3578
#1	-.1226	1.164	11.06	5.401	2037.	45810.
#2	.0400	1.472	10.83	5.415	2038.	45620.
#3	.0748	1.384	10.47	5.996	2029.	45490.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9452.	805.2	127100.	5.018	-2.599	-.7933
Stddev	33.	1.7	830.	.478	.309	1.174
%RSD	.3480	.2105	.6536	9.520	11.88	148.0
#1	9444.	804.0	127900.	4.677	-2.477	-1.658
#2	9424.	804.4	127000.	5.564	-2.369	-1.266
#3	9488.	807.1	126200.	4.812	-2.950	.5437

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111166-E-3-A Acquired: 3/30/2016 21:20:55 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.447	-1.256	12.83	13.53	230.0	9.259
Stddev	1.440	1.414	.08	.22	.9	.304
%RSD	26.43	112.6	.6041	1.656	.3961	3.282
#1	6.702	-2.521	12.88	13.27	231.0	9.359
#2	5.763	.2701	12.74	13.68	229.9	9.500
#3	3.876	-1.517	12.86	13.63	229.2	8.918

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3569	299.7	74.57	10390.
Stddev	.9971	.8	.71	65.
%RSD	279.3	.2731	.9503	.6291
#1	-.5462	300.3	75.35	10410.
#2	1.427	298.7	74.39	10320.
#3	.1901	299.9	73.96	10440.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2730.2	29028.	4828.8
Stddev	10.4	54.	54.4
%RSD	.37969	.18772	1.1275
#1	2720.9	28970.	4816.8
#2	2728.4	29034.	4781.4
#3	2741.4	29079.	4888.3

Sample Name: CCV Acquired: 3/30/2016 21:24:49 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121700.	2461.	1236.	9960.	940.1	123300.
Stddev	155.	2.	5.	18.	2.7	409.
%RSD	.1269	.0842	.3825	.1850	.2900	.3318

#1	121800.	2459.	1240.	9967.	940.9	123600.
#2	121900.	2463.	1237.	9974.	942.4	122900.
#3	121600.	2460.	1231.	9940.	937.1	123500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1232.	2434.	4987.	12020.	102100.	47380.
Stddev	3.	2.	24.	38.	490.	43.
%RSD	.2557	.0967	.4747	.3135	.4798	.0916

#1	1234.	2436.	5015.	12060.	102700.	47340.
#2	1233.	2435.	4974.	12030.	101800.	47370.
#3	1228.	2432.	4974.	11980.	101800.	47420.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124300.	4946.	121100.	2490.	7554.	951.9
Stddev	276.	10.	138.	6.	22.	.7
%RSD	.2219	.2115	.1140	.2490	.2870	.0740

#1	124600.	4950.	121200.	2493.	7577.	952.5
#2	124200.	4934.	121100.	2494.	7552.	952.0
#3	124200.	4953.	121000.	2483.	7534.	951.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/30/2016 21:24:49 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2475.	2438.	2398.	2422.	990.5	2444.
Stddev	4.	.	7.	7.	2.4	4.
%RSD	.1557	.0139	.3098	.2850	.2435	.1470

#1	2478.	2438.	2406.	2427.	993.3	2443.
#2	2476.	2438.	2395.	2424.	989.2	2447.
#3	2471.	2438.	2392.	2414.	989.0	2440.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	988.1	4803.	10150.	9155.
Stddev	2.6	9.	107.	45.
%RSD	.2669	.1912	1.055	.4915

#1	991.1	4798.	10280.	9136.
#2	987.0	4797.	10090.	9122.
#3	986.1	4813.	10090.	9206.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2659.1	28204.	4745.0
Stddev	18.2	175.	59.3
%RSD	.68576	.62019	1.2489

#1	2640.7	28004.	4725.9
#2	2659.5	28326.	4697.7
#3	2677.1	28283.	4811.5

Sample Name: CCB Acquired: 3/30/2016 21:28:31 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-14.00	1.158	-.1647	.1696	-.0379	10.83
Stddev	16.21	2.036	.8812	.1179	.1548	43.43
%RSD	115.8	175.8	535.0	69.49	408.3	401.1

#1	-9.421	2.533	.8511	.2189	-.0199	60.95
#2	-32.00	2.122	-.6214	.0351	.1071	-15.53
#3	-.5739	-1.181	-.7238	.2549	-.2010	-12.94

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0016	.1744	1.335	.0715	20.88	38.86
Stddev	.0659	.1055	1.735	3.738	45.94	41.13
%RSD	4136.	60.46	129.9	5232.	220.0	105.8

#1	.0627	.0651	3.336	4.370	72.98	25.64
#2	-.0690	.2756	.2438	-1.739	3.499	84.98
#3	.0015	.1826	.4266	-2.416	-13.83	5.968

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	26.73	1.085	119.8	-.7581	.1886	-.2144
Stddev	45.15	1.800	7.4	.0440	.9816	1.813
%RSD	168.9	165.9	6.141	5.805	520.6	845.7

#1	78.44	3.164	128.1	-.7873	-.2798	-.2041
#2	-4.823	.0509	114.0	-.7075	-.4711	-2.033
#3	6.561	.0412	117.4	-.7796	1.317	1.594

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/30/2016 21:28:31 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.109	.0324	.6582	-.0624	1.045	.6046
Stddev	2.084	.2115	1.442	.0770	.404	.4174
%RSD	98.84	651.9	219.1	123.5	38.65	69.03
#1	2.363	.2274	2.292	-.1325	1.341	1.041
#2	-.0908	-.1924	-.4352	.0200	.5848	.5627
#3	4.055	.0624	.1174	-.0746	1.209	.2098

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.3948	.0880	2.447	3.881
Stddev	.4853	.0638	3.402	6.520
%RSD	122.9	72.56	139.0	168.0
#1	-.9138	.1466	6.375	10.72
#2	-.3185	.0200	.4780	3.176
#3	.0478	.0973	.4879	-2.259

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2875.1	29854.	4764.5
Stddev	3.2	198.	48.6
%RSD	.11280	.66389	1.0196
#1	2878.2	29852.	4800.3
#2	2875.5	29656.	4784.0
#3	2871.7	30053.	4709.2

Sample Name: 460-111193-B-1-C DU Acquired: 3/30/2016 21:46:07 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	60.81	1.754	-1.1000	3.580	-.0007	22020.
Stddev	18.65	.674	.1618	.133	.0584	50.
%RSD	30.68	38.46	161.8	3.722	8878.	.2259
#1	69.89	2.326	.0399	3.443	.0462	22070.
#2	39.35	1.925	-.0628	3.709	.0179	21970.
#3	73.19	1.010	-.2771	3.590	-.0661	22030.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5513	.0387	2.395	-3.654	25.02	946.6
Stddev	.0542	.2628	.176	.302	5.19	28.0
%RSD	9.828	678.7	7.330	8.277	20.75	2.952
#1	.5352	-.1163	2.566	-3.792	28.49	916.8
#2	.6117	-.1097	2.404	-3.307	19.05	950.7
#3	.5070	.3422	2.216	-3.862	27.52	972.3

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1635.	58.08	32640.	.5551	.0512	-.9045
Stddev	6.	.17	114.	.1167	.1773	.4471
%RSD	.3794	.2942	.3492	21.02	346.2	49.43
#1	1635.	58.24	32770.	.6805	.1784	-.3954
#2	1641.	57.90	32610.	.4499	-.1513	-1.233
#3	1629.	58.09	32550.	.5348	.1266	-1.085

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: 460-111193-B-1-C DU Acquired: 3/30/2016 21:46:07 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.539	-.5724	-.4115	5.965	13.49	-.1826
Stddev	1.555	.5468	.3923	.070	.19	.0324
%RSD	101.1	95.54	95.34	1.180	1.377	17.72
#1	.2569	-.1996	-.1774	6.034	13.61	-.1461
#2	-2.421	-1.200	-.1926	5.893	13.58	-.1942
#3	-2.452	-.3173	-.8644	5.969	13.28	-.2077

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2840	119.6	3.537	573.0
Stddev	.4155	.1	.257	14.1
%RSD	146.3	.0549	7.272	2.468
#1	-.5797	119.5	3.305	561.3
#2	-.4634	119.6	3.493	588.7
#3	.1911	119.5	3.814	569.0

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2793.4	29611.	4797.9
Stddev	8.4	122.	19.9
%RSD	.30134	.41158	.41436
#1	2787.3	29496.	4781.2
#2	2803.0	29739.	4819.9
#3	2790.0	29598.	4792.7

Sample Name: sd 460-111193-B-1-B Acquired: 3/30/2016 21:54:00 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11.26	.4142	-.4922	.5502	-.0501	4350.
Stddev	6.38	.4683	.3054	.0196	.0693	15.
%RSD	56.62	113.1	62.05	3.570	138.3	.3418
#1	11.00	.8684	-.6563	.5427	-.1300	4333.
#2	5.019	-.0671	-.1399	.5354	-.0065	4355.
#3	17.76	.4412	-.6805	.5724	-.0138	4362.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1336	.0485	-.0135	-3.989	7.883	187.0
Stddev	.1256	.1490	.3913	.365	6.599	32.7
%RSD	94.03	307.5	2896.	9.144	83.71	17.51
#1	.0112	-.1088	-.4419	-3.981	4.890	176.5
#2	.2623	.0667	.0764	-4.357	3.311	160.7
#3	.1274	.1874	.3250	-3.628	15.45	223.6

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	324.9	11.52	6388.	-.6645	-.1122	-.3945
Stddev	6.3	.15	46.	.0719	.9420	.9628
%RSD	1.949	1.305	.7227	10.82	839.6	244.0
#1	327.7	11.65	6369.	-.5843	-.8490	-.6976
#2	317.7	11.36	6440.	-.6857	-.4368	-1.169
#3	329.3	11.55	6354.	-.7234	.9492	.6834

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: sd 460-111193-B-1-B Acquired: 3/30/2016 21:54:00 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1049	.3198	-.4371	1.256	2.225	-.1400
Stddev	2.505	1.192	.0871	.268	.141	.1049
%RSD	2387.	372.7	19.94	21.35	6.356	74.94
#1	-.3430	-.6614	-.5336	1.428	2.330	-.1937
#2	-2.145	1.646	-.4134	.9472	2.064	-.2073
#3	2.803	-.0254	-.3642	1.393	2.280	-.0191

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0922	23.53	.9576	94.22
Stddev	1.084	.05	.0352	7.88
%RSD	1175.	.1953	3.671	8.358
#1	1.063	23.50	.9293	89.50
#2	-1.086	23.58	.9466	103.3
#3	-.2531	23.51	.9970	89.86

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2839.8	29985.	4849.9
Stddev	3.1	136.	63.2
%RSD	.10795	.45291	1.3037
#1	2836.3	30141.	4921.9
#2	2841.8	29921.	4824.4
#3	2841.4	29894.	4803.5

Sample Name: pds 460-111193-B-1-B Acquired: 3/30/2016 22:02:03 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1919.	1817.	46.47	1898.	45.63	40970.
Stddev	17.	8.	.70	2.	.26	93.
%RSD	.8919	.4183	1.496	.0956	.5632	.2271
#1	1936.	1824.	45.85	1899.	45.91	40950.
#2	1902.	1809.	46.34	1896.	45.56	41070.
#3	1918.	1819.	47.23	1897.	45.41	40890.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.06	473.0	198.2	217.1	1037.	17470.
Stddev	.09	.7	.8	1.0	7.	88.
%RSD	.1827	.1561	.4094	.4696	.6307	.5065
#1	48.17	473.4	199.1	218.0	1042.	17570.
#2	48.01	473.5	197.5	216.0	1040.	17410.
#3	48.02	472.2	198.1	217.3	1030.	17420.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20250.	544.3	49830.	489.8	494.4	441.1
Stddev	47.	1.4	377.	1.1	2.9	.7
%RSD	.2304	.2653	.7567	.2227	.5930	.1695
#1	20280.	543.8	50250.	491.0	497.7	440.3
#2	20280.	545.9	49530.	489.4	492.4	441.8
#3	20200.	543.1	49710.	488.9	493.0	441.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-111193-B-1-B Acquired: 3/30/2016 22:02:03 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1859.	1958.	463.9	485.7	495.5	464.2
Stddev	9.	12.	1.3	2.8	1.9	.6
%RSD	.5012	.6315	.2700	.5780	.3847	.1382
#1	1869.	1972.	463.1	487.3	494.9	464.9
#2	1854.	1953.	465.3	487.3	493.9	463.7
#3	1853.	1948.	463.1	482.4	497.6	463.9
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	483.2	572.6	490.1	590.4
Stddev	1.3	3.8	.9	2.6
%RSD	.2753	.6640	.1739	.4353
#1	484.5	577.0	491.1	590.9
#2	481.8	570.4	489.5	587.6
#3	483.2	570.3	489.7	592.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2801.5	28934.	4741.9
Stddev	3.9	25.	40.5
%RSD	.13756	.08788	.85505
#1	2803.1	28951.	4725.9
#2	2804.2	28905.	4788.0
#3	2797.0	28945.	4711.8

Sample Name: 460-111166-E-5-A Acquired: 3/30/2016 22:09:36 Type: Unk

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.619	-.0092	-.5356	-.1066	-.0994	-11.63
Stddev	10.00	.5637	.2516	.0408	.0836	9.09
%RSD	617.9	6109.	46.97	38.21	84.11	78.15

#1	-9.820	.3705	-.2476	-.0608	-.1285	-11.01
#2	5.964	-.6569	-.6469	-.1204	-.0051	-21.01
#3	8.712	.2586	-.7124	-.1388	-.1646	-2.863

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0464	.0629	-.3057	-3.877	1.146	9.399
Stddev	.0936	.1688	.4258	.214	6.370	17.29
%RSD	201.9	268.4	139.3	5.508	555.9	183.9

#1	-.0193	.1998	-.0586	-3.977	-1.094	-5.937
#2	-.1506	.1147	-.0612	-4.021	-3.801	28.13
#3	.0307	-.1258	-.7974	-3.632	8.333	6.001

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.888	.0535	80.87	-.8139	.3717	.1577
Stddev	3.638	.0366	3.71	.3889	.2700	.3152
%RSD	93.57	68.48	4.587	47.79	72.64	199.8

#1	.9612	.0113	80.92	-.5490	.5199	.5195
#2	7.961	.0723	84.56	-1.260	.0601	-.0570
#3	2.741	.0769	77.14	-.6324	.5352	.0106

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111166-E-5-A Acquired: 3/30/2016 22:09:36 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.842	-.0633	-.1312	.8751	5.832	-.2245
Stddev	2.109	.8884	.2319	.1459	.243	.1350
%RSD	114.5	1403.	176.8	16.67	4.173	60.12
#1	-2.633	-.4961	.1228	.7786	5.627	-.3802
#2	.5483	-.6524	-.3318	.8037	5.769	-.1404
#3	-3.440	.9585	-.1845	1.043	6.101	-.1530

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0983	-.0135	.2511	68.84
Stddev	.3489	.0476	.1921	3.22
%RSD	355.0	352.7	76.49	4.673
#1	.4664	-.0239	.4665	65.18
#2	-.2275	.0384	.1894	70.16
#3	.0559	-.0550	.0975	71.19

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2862.4	30066.	4815.3
Stddev	10.7	123.	54.6
%RSD	.37546	.40797	1.1341
#1	2850.6	29930.	4757.7
#2	2865.2	30099.	4822.1
#3	2871.5	30169.	4866.3

Sample Name: 460-111193-B-1-B@10 Acquired: 3/30/2016 21:50:02 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	43.71	1.719	-.0305	3.574	-.1378	22370.
Stddev	2.17	1.603	.8377	.094	.0205	101.
%RSD	4.959	93.26	2744.	2.633	14.86	.4521
#1	42.73	3.325	-.4085	3.492	-.1305	22370.
#2	42.20	.1192	.9295	3.677	-.1219	22460.
#3	46.19	1.712	-.6126	3.552	-.1609	22260.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4226	-.0127	2.566	-3.364	37.34	954.2
Stddev	.0486	.1028	.192	.103	7.90	15.0
%RSD	11.50	808.8	7.471	3.061	21.15	1.577
#1	.3983	.0622	2.748	-3.448	35.03	936.8
#2	.4785	-.1300	2.366	-3.249	46.14	962.0
#3	.3908	.0296	2.584	-3.394	30.86	963.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1655.	58.76	32720.	.4930	.4471	.8015
Stddev	5.	.36	40.	.5046	.5831	.9706
%RSD	.3038	.6084	.1210	102.3	130.4	121.1
#1	1657.	58.87	32680.	-.0366	-.2156	.2291
#2	1658.	59.06	32760.	.9682	.8813	1.922
#3	1649.	58.37	32720.	.5475	.6757	.2532

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111193-B-1-B@10 Acquired: 3/30/2016 21:50:02 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.459	-1.144	-1.636	6.054	13.41	-3.140
Stddev	.691	1.378	.3248	.190	.69	.1145
%RSD	47.38	120.5	198.6	3.137	5.155	36.45
#1	1.470	-2.640	-.0316	6.046	12.66	-.1911
#2	.7622	-.8673	-.5336	5.868	14.02	-.4176
#3	2.144	.0747	.0745	6.247	13.55	-.3332

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0273	119.7	3.609	584.2
Stddev	.4138	.2	.182	28.3
%RSD	1517.	.1900	5.049	4.850
#1	.3552	119.7	3.414	553.8
#2	.0295	119.4	3.636	588.8
#3	-.4665	119.8	3.775	609.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2776.7	29145.	4651.2
Stddev	10.1	137.	48.6
%RSD	.36430	.46987	1.0447
#1	2765.1	29165.	4622.4
#2	2781.2	28999.	4623.8
#3	2783.7	29271.	4707.3

Sample Name: 460-111193-B-1-D MS Acquired: 3/30/2016 21:58:07 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	251.4	183.9	4.169	197.8	4.572	24350.
Stddev	3.7	1.9	.338	.1	.050	33.
%RSD	1.479	1.008	8.099	.0716	1.092	.1348
#1	252.7	185.8	4.454	197.7	4.539	24380.
#2	247.2	182.1	4.257	197.8	4.630	24370.
#3	254.2	183.8	3.796	197.9	4.548	24320.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.402	48.50	22.56	20.50	144.2	2618.
Stddev	.071	.17	.44	.10	12.8	24.
%RSD	1.310	.3562	1.948	.4735	8.891	.9060
#1	5.353	48.59	23.01	20.57	146.1	2601.
#2	5.370	48.61	22.54	20.39	156.0	2608.
#3	5.483	48.30	22.14	20.53	130.5	2645.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3551.	109.0	34060.	51.16	51.41	44.07
Stddev	10.	.1	181.	.69	.83	.78
%RSD	.2700	.0961	.5318	1.344	1.616	1.776
#1	3560.	108.9	33860.	51.19	52.32	43.58
#2	3550.	109.1	34210.	50.46	51.21	44.98
#3	3541.	109.1	34110.	51.83	50.70	43.67

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111193-B-1-D MS Acquired: 3/30/2016 21:58:07 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	186.7	202.0	46.65	54.53	61.11	46.45
Stddev	4.1	.8	.07	.38	.24	.25
%RSD	2.196	.4170	.1522	.6974	.3856	.5280
#1	190.7	202.1	46.70	54.10	60.85	46.72
#2	182.5	202.7	46.68	54.82	61.32	46.23
#3	186.8	201.1	46.57	54.68	61.16	46.41

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	49.65	165.2	53.65	557.4
Stddev	1.02	.8	.16	13.6
%RSD	2.062	.4752	.2979	2.434
#1	49.37	164.4	53.67	560.6
#2	48.79	165.4	53.79	542.6
#3	50.78	165.9	53.48	569.2

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2826.7	29237.	4716.2
Stddev	8.0	184.	38.9
%RSD	.28281	.62826	.82458
#1	2828.6	29160.	4758.8
#2	2817.9	29104.	4707.2
#3	2833.6	29447.	4682.7

Sample Name: 460-111166-E-4-A Acquired: 3/30/2016 22:05:42 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1671.	.4941	-.3240	268.4	.1009	159700.
Stddev	11.	.9065	.3313	1.2	.0763	403.
%RSD	.6409	183.5	102.3	.4615	75.68	.2526

#1	1682.	-.0438	-.2061	267.1	.0137	159500.
#2	1670.	1.541	-.6981	268.6	.1560	159400.
#3	1660.	-.0146	-.0678	269.5	.1329	160100.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0743	.6271	3.906	.0991	1196.	15800.
Stddev	.0760	.2485	.435	.4994	21.	23.
%RSD	102.4	39.62	11.13	503.9	1.792	.1445

#1	-.0015	.4082	3.541	.6657	1174.	15790.
#2	-.1532	.8971	3.791	-.0914	1197.	15790.
#3	-.0681	.5758	4.387	-.2770	1217.	15830.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22420.	100.9	45850.	2.268	.4502	-2.480
Stddev	90.	.4	149.	.509	.5781	1.335
%RSD	.4024	.3695	.3250	22.43	128.4	53.83

#1	22370.	100.5	45820.	2.728	.4336	-1.046
#2	22360.	100.8	45720.	2.355	-.1195	-2.707
#3	22520.	101.3	46010.	1.722	1.036	-3.687

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111166-E-4-A Acquired: 3/30/2016 22:05:42 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.595	-1.359	5.278	5.887	93.59	3.450
Stddev	.974	.675	.515	.306	.54	.100
%RSD	27.09	49.68	9.759	5.192	.5800	2.902
#1	4.051	-1.396	5.858	6.165	93.01	3.340
#2	4.257	-2.014	5.102	5.936	94.09	3.475
#3	2.477	-.6655	4.874	5.560	93.65	3.535

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.9083	517.1	54.75	13250.
Stddev	.4278	1.9	1.45	121.
%RSD	47.10	.3742	2.657	.9100
#1	1.384	519.0	54.11	13290.
#2	.5564	515.1	56.41	13350.
#3	.7839	517.3	53.71	13120.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2737.6	28501.	4772.0
Stddev	8.3	154.	28.6
%RSD	.30218	.53927	.59992
#1	2745.6	28577.	4792.7
#2	2738.1	28603.	4783.9
#3	2729.1	28325.	4739.3

Sample Name: 460-110976-E-3-A@20 Acquired: 3/30/2016 22:13:37 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	10040.	5.190	-.0335	21.69	.4685	366.8
Stddev	74.	1.858	.0983	.05	.0807	8.5
%RSD	.7389	35.80	293.2	.2329	17.23	2.309
#1	10110.	5.442	-.0358	21.64	.5467	357.1
#2	9961.	6.908	.0659	21.74	.4735	372.2
#3	10060.	3.218	-.1306	21.69	.3855	371.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5086	2.312	18.26	7.135	33270.	153.9
Stddev	.0544	.208	.52	.280	79.	5.1
%RSD	10.70	8.992	2.857	3.923	.2379	3.320
#1	-.5130	2.237	17.88	7.304	33360.	158.1
#2	-.4521	2.153	18.05	7.290	33260.	155.2
#3	-.5607	2.547	18.86	6.812	33200.	148.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	185.6	46.27	157.6	4.658	12.19	-.6529
Stddev	1.4	.07	3.5	.205	.29	.3976
%RSD	.7807	.1467	2.235	4.403	2.373	60.90
#1	184.3	46.25	157.8	4.644	12.06	-.2223
#2	187.2	46.34	153.9	4.870	12.52	-1.006
#3	185.4	46.21	161.0	4.461	11.99	-.7304

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110976-E-3-A@20 Acquired: 3/30/2016 22:13:37 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.584	-.9097	21.57	19.17	-.2264	1.415
Stddev	1.379	1.133	.19	.26	.1522	.086
%RSD	87.08	124.5	.8871	1.345	67.23	6.058
#1	.2996	.2094	21.59	19.06	-.0677	1.509
#2	3.042	-.8827	21.75	19.46	-.2404	1.342
#3	1.410	-2.056	21.37	18.98	-.3711	1.394

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.570	2.934	88.57	196.8
Stddev	.318	.097	.54	5.3
%RSD	20.24	3.292	.6101	2.708
#1	1.716	3.037	88.77	191.3
#2	1.205	2.846	88.97	196.9
#3	1.788	2.918	87.95	202.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2906.7	30514.	4905.6
Stddev	17.3	175.	68.9
%RSD	.59354	.57278	1.4052
#1	2925.5	30321.	4842.8
#2	2902.8	30663.	4979.4
#3	2891.7	30557.	4894.7

Sample Name: LLQC 6010C water Acquired: 3/30/2016 22:36:55 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	207.1	14.58	9.295	210.6	1.957	4969.
Stddev	10.5	2.30	.155	1.0	.116	10.
%RSD	5.092	15.76	1.664	.4981	5.911	.1933
#1	218.4	17.24	9.377	211.8	2.090	4980.
#2	205.3	13.25	9.392	209.9	1.905	4967.
#3	197.5	13.26	9.117	210.0	1.876	4961.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.125	52.62	10.29	19.72	163.7	4684.
Stddev	.125	.14	.19	.15	3.2	23.
%RSD	3.041	.2601	1.845	.7779	1.980	.5011
#1	4.257	52.78	10.35	19.76	165.2	4709.
#2	4.007	52.51	10.08	19.55	160.0	4681.
#3	4.113	52.59	10.44	19.85	166.0	4662.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4973.	15.64	4926.	42.35	10.70	19.33
Stddev	23.	.10	9.	.64	.25	.77
%RSD	.4633	.6198	.1926	1.510	2.321	3.994
#1	5000.	15.72	4920.	42.80	10.94	18.52
#2	4957.	15.54	4922.	42.63	10.45	19.42
#3	4964.	15.67	4937.	41.62	10.73	20.05

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: LLQC 6010C water Acquired: 3/30/2016 22:36:55 Type: Unk

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.00	21.68	48.50	30.44	51.75	20.00
Stddev	1.59	.50	.16	.06	.73	.21
%RSD	7.940	2.316	.3312	.2087	1.412	1.032

#1	19.83	22.11	48.64	30.44	52.23	19.93
#2	18.50	21.12	48.52	30.51	50.91	19.84
#3	21.66	21.80	48.32	30.38	52.12	20.23

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	51.37	19.93	22.06	-2.213
Stddev	.89	.05	.39	11.36
%RSD	1.741	.2477	1.756	513.5

#1	51.07	19.97	22.27	-3.972
#2	50.66	19.87	22.30	-12.59
#3	52.37	19.93	21.61	9.926

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2851.9	30104.	4821.7
Stddev	22.1	52.	58.5
%RSD	.77399	.17323	1.2139

#1	2833.3	30164.	4887.9
#2	2845.9	30084.	4800.5
#3	2876.3	30065.	4776.8

Sample Name: lcs 460-348313/2-a Acquired: 3/30/2016 22:17:34 Type: Unk

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1913.	1833.	47.28	1949.	47.14	18990.
Stddev	9.	6.	.52	3.	.17	95.
%RSD	.4854	.3059	1.096	.1579	.3703	.5027

#1	1915.	1838.	47.86	1949.	46.95	19100.
#2	1922.	1834.	47.12	1953.	47.16	18950.
#3	1903.	1827.	46.85	1947.	47.30	18930.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48.91	487.2	200.7	222.9	1031.	16930.
Stddev	.13	.6	1.0	1.1	15.	37.
%RSD	.2670	.1160	.4917	.4900	1.445	.2163

#1	48.82	487.8	201.6	222.5	1014.	16970.
#2	49.06	487.1	200.9	224.2	1041.	16900.
#3	48.86	486.7	199.6	222.1	1038.	16910.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18860.	490.2	18650.	506.7	509.4	450.5
Stddev	60.	1.8	43.	.9	1.2	1.7
%RSD	.3190	.3703	.2282	.1753	.2306	.3839

#1	18930.	492.2	18700.	506.8	510.7	449.9
#2	18830.	489.7	18630.	507.6	509.2	449.1
#3	18820.	488.6	18620.	505.8	508.4	452.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: lcs 460-348313/2-a Acquired: 3/30/2016 22:17:34 Type: Unk

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1891.	2040.	476.8	491.5	498.8	477.8
Stddev	4.	13.	2.8	.4	1.6	.4
%RSD	.2259	.6133	.5813	.0745	.3210	.0850

#1	1896.	2050.	473.7	491.5	497.5	478.3
#2	1887.	2026.	477.9	491.8	498.5	477.5
#3	1890.	2045.	479.0	491.1	500.6	477.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	494.9	465.8	498.3	40.57
Stddev	1.1	1.8	.3	12.92
%RSD	.2257	.3791	.0503	31.85

#1	495.0	467.9	498.6	26.09
#2	495.9	464.9	498.2	50.92
#3	493.7	464.7	498.1	44.71

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2796.2	29485.	4759.9
Stddev	2.5	149.	41.2
%RSD	.09023	.50635	.86543

#1	2799.0	29330.	4747.4
#2	2794.1	29495.	4726.5
#3	2795.6	29628.	4806.0

Sample Name: mb 460-348313/1-a Acquired: 3/30/2016 22:21:13 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-11.28	1.655	-.4222	-.0748	-.0852	-13.12
Stddev	7.37	.907	.1513	.0677	.1398	3.41
%RSD	65.33	54.77	35.85	90.52	164.1	25.99
#1	-4.479	.7199	-.4993	-.0046	-.2233	-9.204
#2	-10.26	2.530	-.5195	-.1396	.0562	-15.43
#3	-19.12	1.716	-.2478	-.0801	-.0885	-14.73

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0908	.1186	-.2561	-4.948	.5776	9.439
Stddev	.0343	.1973	.1491	.192	8.202	26.33
%RSD	37.77	166.3	58.22	3.883	1420.	278.9
#1	-.0986	.2692	-.4282	-4.883	-8.643	32.88
#2	-.1205	.1915	-.1672	-5.165	7.061	14.48
#3	-.0532	-.1048	-.1729	-4.797	3.316	-19.04

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.031	.0206	56.76	-.6020	-.2705	.4396
Stddev	2.442	.0437	2.72	.1936	.8054	.6132
%RSD	236.9	211.5	4.785	32.16	297.8	139.5
#1	3.559	.0616	53.71	-.5391	-1.020	.9236
#2	-1.315	-.0253	58.91	-.8193	-.3718	-.2500
#3	.8485	.0256	57.67	-.4477	.5808	.6451

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: mb 460-348313/1-a Acquired: 3/30/2016 22:21:13 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7565	-.6395	.0001	.4232	.2935	-.1158
Stddev	1.253	1.260	.1168	.0831	.3307	.1431
%RSD	165.6	197.1	175100.	19.63	112.7	123.6
#1	.6253	.6652	-.1347	.3420	.4987	-.1805
#2	-1.818	-.7331	.0709	.5080	.4698	-.2151
#3	-1.076	-1.851	.0640	.4196	-.0881	.0482

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2584	-.0731	.0248	-3.585
Stddev	.7892	.0695	.1289	6.055
%RSD	305.5	95.12	519.5	168.9
#1	-1.167	-.0104	.0647	3.168
#2	.1379	-.0610	-.1193	-8.532
#3	.2542	-.1479	.1290	-5.393

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2852.6	30438.	4823.8
Stddev	10.9	98.	32.5
%RSD	.38268	.32264	.67449
#1	2844.6	30385.	4814.3
#2	2865.0	30552.	4797.0
#3	2848.1	30378.	4860.0

Sample Name: CCV Acquired: 3/30/2016 22:25:14 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	121300.	2437.	1224.	9904.	945.2	121200.
Stddev	469.	7.	1.	12.	3.2	466.
%RSD	.3870	.2831	.1060	.1218	.3382	.3844

#1	120800.	2440.	1222.	9908.	942.1	120600.
#2	121400.	2429.	1225.	9890.	944.9	121500.
#3	121700.	2442.	1224.	9913.	948.5	121300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1223.	2429.	4932.	12100.	100500.	47550.
Stddev	2.	4.	16.	49.	286.	26.
%RSD	.1569	.1478	.3230	.4089	.2847	.0557

#1	1225.	2433.	4914.	12110.	100100.	47530.
#2	1221.	2425.	4945.	12130.	100700.	47540.
#3	1222.	2428.	4936.	12040.	100500.	47580.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	122300.	4872.	121100.	2477.	7492.	952.8
Stddev	281.	7.	464.	4.	9.	6.7
%RSD	.2296	.1483	.3829	.1572	.1177	.7017

#1	122000.	4863.	120600.	2481.	7492.	958.8
#2	122500.	4877.	121200.	2473.	7484.	945.6
#3	122400.	4875.	121500.	2478.	7501.	954.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/30/2016 22:25:14 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2456.	2447.	2396.	2400.	992.1	2445.
Stddev	8.	6.	7.	5.	4.7	3.
%RSD	.3113	.2406	.3066	.1915	.4694	.1096

#1	2464.	2443.	2389.	2403.	992.5	2444.
#2	2449.	2454.	2404.	2401.	987.2	2442.
#3	2455.	2446.	2397.	2394.	996.5	2448.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	984.5	4797.	10050.	9313.
Stddev	1.3	7.	55.	62.
%RSD	.1312	.1498	.5513	.6671

#1	986.0	4793.	10010.	9306.
#2	983.9	4805.	10110.	9378.
#3	983.7	4793.	10040.	9255.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2637.5	28297.	4724.3
Stddev	7.8	115.	57.0
%RSD	.29568	.40571	1.2070

#1	2640.1	28427.	4765.5
#2	2628.8	28209.	4748.2
#3	2643.7	28254.	4659.2

Sample Name: sd 460-111115-A-1-A@ Acquired: 3/30/2016 23:08:06 Type: Unk
 Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
 User: admin Custom ID1: Custom ID2: Custom ID3:
 Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	30.26	.6128	1.297	7.619	-.0336	3690.
Stddev	1.10	.1215	.225	.122	.1247	23.
%RSD	3.634	19.82	17.34	1.599	371.2	.6097
#1	29.70	.5833	1.534	7.585	-.1762	3705.
#2	29.55	.5088	1.086	7.755	.0553	3665.
#3	31.52	.7462	1.270	7.518	.0201	3702.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0074	-.0419	13.38	11.64	42.46	796.3
Stddev	.1030	.0952	.33	.40	10.58	36.7
%RSD	1385.	227.0	2.439	3.421	24.92	4.604
#1	.1215	.0182	13.01	11.44	40.80	759.0
#2	-.0787	-.1517	13.59	11.38	32.81	832.3
#3	-.0205	.0077	13.55	12.10	53.78	797.7

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	746.7	2.124	4580.	13.88	.4776	-1.077
Stddev	7.8	.114	19.	.40	1.078	1.404
%RSD	1.042	5.389	.4187	2.895	225.8	130.4
#1	742.2	2.172	4573.	14.31	1.184	-1.794
#2	742.2	1.993	4566.	13.81	-.7638	.5411
#3	755.7	2.206	4602.	13.51	1.013	-1.978

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
 High Limit
 Low Limit

Sample Name: sd 460-111115-A-1-A@ Acquired: 3/30/2016 23:08:06 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.046	-.5878	-.1484	11.20	8.770	-.2148
Stddev	2.317	1.703	.5185	.15	.321	.1094
%RSD	221.4	289.7	349.3	1.301	3.663	50.91
#1	-.4085	1.250	-.7422	11.20	9.123	-.0912
#2	-.1700	-2.113	.2152	11.35	8.496	-.2988
#3	3.718	-.9004	.0816	11.06	8.692	-.2544

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3229	36.23	.9973	683.2
Stddev	.7180	.10	.0642	22.6
%RSD	222.4	.2838	6.434	3.314
#1	-.1241	36.16	1.071	703.7
#2	1.151	36.18	.9610	658.9
#3	-.0585	36.35	.9595	687.1

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2817.8	29757.	4759.6
Stddev	17.1	194.	57.2
%RSD	.60838	.65146	1.2010
#1	2799.6	29558.	4726.4
#2	2833.6	29945.	4726.9
#3	2820.3	29768.	4825.6

Sample Name: CCVL Acquired: 3/30/2016 23:23:31 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	220.8	13.71	9.678	214.9	1.903	5060.
Stddev	.7	1.00	.386	.3	.070	33.
%RSD	.3191	7.256	3.983	.1505	3.664	.6562

#1	221.6	13.89	9.279	214.5	1.948	5039.
#2	220.4	14.61	10.05	214.9	1.937	5043.
#3	220.4	12.64	9.706	215.2	1.822	5098.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.200	53.21	10.33	20.45	170.4	4755.
Stddev	.111	.01	.21	.24	10.8	20.
%RSD	2.631	.0216	2.036	1.183	6.351	.4155

#1	4.279	53.21	10.53	20.64	158.8	4777.
#2	4.074	53.20	10.11	20.18	180.3	4738.
#3	4.247	53.22	10.34	20.52	172.0	4749.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5066.	16.11	4981.	43.44	11.90	19.04
Stddev	40.	.14	22.	.26	1.49	1.52
%RSD	.7984	.8593	.4491	.6098	12.52	8.008

#1	5050.	16.03	4991.	43.64	10.26	19.34
#2	5036.	16.04	4997.	43.14	12.26	20.39
#3	5112.	16.27	4956.	43.54	13.17	17.38

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/30/2016 23:23:31 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.58	22.03	49.60	30.94	53.02	20.38
Stddev	3.23	.82	.34	.19	.13	.05
%RSD	17.37	3.740	.6915	.6113	.2422	.2289

#1	15.09	22.88	49.76	31.16	52.92	20.37
#2	19.18	21.99	49.20	30.81	53.16	20.34
#3	21.46	21.23	49.83	30.86	52.98	20.43

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	52.11	20.22	22.33	F 3.194
Stddev	.86	.02	.18	19.68
%RSD	1.641	.0965	.8163	616.2

#1	52.79	20.19	22.19	14.55
#2	52.39	20.22	22.27	14.57
#3	51.15	20.23	22.54	-19.53

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2796.8	29680.	4786.9
Stddev	6.1	187.	18.0
%RSD	.21711	.63153	.37589

#1	2800.9	29885.	4807.7
#2	2799.6	29637.	4776.1
#3	2789.8	29518.	4777.0

Sample Name: 460-111159-F-1-A Acquired: 3/30/2016 23:31:09 Type: Unk

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	323.4	4.534	.1347	179.5	-.0726	210900.
Stddev	5.0	1.591	.1212	.3	.0737	1417.
%RSD	1.552	35.09	90.02	.1409	101.5	.6719

#1	320.8	3.257	.0254	179.3	.0108	211800.
#2	329.2	6.316	.1135	179.5	-.1289	209200.
#3	320.3	4.028	.2651	179.8	-.0999	211500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0348	-.0659	-1.285	-3.918	318.3	1871.
Stddev	.1062	.2271	.420	.401	8.9	26.
%RSD	305.4	344.8	32.67	10.23	2.794	1.395

#1	-.0879	.0325	-.9056	-3.661	327.9	1845.
#2	.0980	-.3255	-1.214	-3.712	310.3	1871.
#3	.0942	.0954	-1.736	-4.379	316.9	1898.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	32170.	3348.	44340.	.5816	1.775	-2.762
Stddev	134.	19.	79.	.1948	.545	2.734
%RSD	.4169	.5713	.1786	33.50	30.68	98.99

#1	32180.	3361.	44370.	.7102	2.404	-4.640
#2	32030.	3326.	44400.	.3574	1.468	.3747
#3	32300.	3358.	44250.	.6771	1.453	-4.019

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111159-F-1-A Acquired: 3/30/2016 23:31:09 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5865	2.437	3.751	3.275	1189.	34.45
Stddev	.4035	1.365	.410	.130	3.	.27
%RSD	68.81	55.99	10.94	3.978	.2909	.7896
#1	.9534	1.095	3.871	3.152	1186.	34.61
#2	.6518	3.823	3.293	3.261	1190.	34.13
#3	.1543	2.393	4.087	3.412	1193.	34.60

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.8707	3058.	5.770	9167.
Stddev	1.413	7.	.201	30.
%RSD	162.3	.2269	3.484	.3310
#1	-1.611	3053.	5.963	9132.
#2	.7592	3066.	5.562	9180.
#3	-1.760	3056.	5.784	9188.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2674.0	28281.	4660.4
Stddev	3.3	191.	40.3
%RSD	.12451	.67452	.86565
#1	2677.4	28235.	4676.9
#2	2670.8	28491.	4689.8
#3	2673.7	28118.	4614.4

Sample Name: CCB Acquired: 3/30/2016 22:28:58 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.8487	1.623	-0.3382	.9783	.0048	-2.538
Stddev	7.366	.828	.4401	1.372	.0487	19.89
%RSD	867.9	51.02	130.1	140.3	1021.	783.5

#1	-6.604	1.620	-.7770	.2471	-.0469	-15.63
#2	-3.395	2.452	-.3406	2.562	.0114	-12.33
#3	7.453	.7964	.1032	.1263	.0498	20.34

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0967	-.0051	.4833	-3.254	12.19	13.58
Stddev	.1056	.1608	.6315	1.685	21.14	39.25
%RSD	109.2	3159.	130.7	51.79	173.4	289.1

#1	.0037	-.1819	.2774	-4.553	18.59	36.02
#2	.2115	.1324	-.0195	-3.858	-11.41	36.46
#3	.0748	.0342	1.192	-1.350	29.40	-31.75

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12.58	.5509	49.67	-.0340	.5743	1.482
Stddev	15.85	.6411	9.51	.3006	.4060	.432
%RSD	125.9	116.4	19.15	884.4	70.70	29.13

#1	3.938	.2558	60.58	-.1336	.6385	1.493
#2	2.939	.1104	45.34	.3037	.9445	1.908
#3	30.87	1.286	43.10	-.2721	.1400	1.045

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/30/2016 22:28:58 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.696	-1.207	.1626	.1710	1.147	.6929
Stddev	.719	1.437	.2990	.3837	.678	.5933
%RSD	42.38	119.1	183.9	224.3	59.12	85.63
#1	.8807	.1497	-.1186	-.1720	1.762	1.078
#2	2.238	-1.056	.1296	.5854	1.259	.9914
#3	1.968	-2.713	.4767	.0997	.4198	.0096

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.3762	.2262	1.404	19.86
Stddev	.4640	.0945	1.137	18.58
%RSD	123.3	41.79	80.94	93.57
#1	-.1296	.3313	.8961	17.51
#2	.7821	.1993	.6105	39.50
#3	.4760	.1480	2.707	2.563

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2826.9	29930.	4768.1
Stddev	2.8	68.	44.2
%RSD	.09835	.22808	.92615
#1	2829.9	29978.	4727.8
#2	2824.4	29961.	4815.3
#3	2826.3	29852.	4761.3

Sample Name: CCVL Acquired: 3/30/2016 22:32:59 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	225.4	16.40	10.06	212.5	1.960	5011.
Stddev	12.3	2.26	.26	.2	.028	41.
%RSD	5.475	13.80	2.539	.1030	1.428	.8266

#1	239.1	17.10	9.783	212.7	1.929	4987.
#2	215.1	13.87	10.28	212.5	1.968	5059.
#3	222.1	18.23	10.12	212.3	1.983	4987.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.099	52.80	10.91	21.61	193.3	4738.
Stddev	.096	.23	1.22	3.12	32.2	22.
%RSD	2.346	.4381	11.19	14.44	16.68	.4618

#1	3.988	52.90	9.959	19.56	184.2	4713.
#2	4.160	52.54	12.29	25.21	229.1	4748.
#3	4.150	52.97	10.49	20.07	166.6	4753.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5046.	16.59	4944.	43.16	11.44	18.36
Stddev	60.	1.46	31.	.32	.59	1.09
%RSD	1.183	8.813	.6320	.7405	5.163	5.930

#1	4997.	15.63	4979.	43.11	10.99	17.16
#2	5113.	18.27	4934.	43.50	11.21	18.63
#3	5030.	15.87	4919.	42.86	12.11	19.28

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/30/2016 22:32:59 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	18.39	20.03	49.80	30.49	52.83	20.15
Stddev	2.23	1.11	.74	.10	.41	.17
%RSD	12.15	5.519	1.486	.3115	.7857	.8253
#1	18.33	18.78	49.25	30.47	52.46	20.35
#2	16.18	20.87	50.64	30.41	53.28	20.05
#3	20.65	20.45	49.51	30.59	52.74	20.07

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	51.51	19.89	23.91	F 16.94
Stddev	.36	.10	3.27	12.72
%RSD	.6893	.4870	13.69	75.05
#1	51.30	19.90	21.94	6.229
#2	51.32	19.99	27.68	31.00
#3	51.92	19.79	22.09	13.61

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2820.9	29868.	4776.8
Stddev	12.8	319.	126.5
%RSD	.45490	1.0684	2.6471
#1	2807.8	29562.	4631.3
#2	2821.4	29842.	4839.2
#3	2833.5	30199.	4860.0

Sample Name: 460-111193-B-1-B@4 Acquired: 3/30/2016 23:50:47 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38290.	6.518	.4383	169.8	1.909	10220.
Stddev	151.	1.151	.1508	.4	.107	40.
%RSD	.3933	17.65	34.41	.2228	5.617	.3906

#1	38460.	5.532	.4064	170.2	1.888	10220.
#2	38220.	7.783	.3059	169.9	1.814	10270.
#3	38190.	6.240	.6025	169.4	2.026	10190.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8688	31.36	88.26	76.71	76970.	1833.
Stddev	.0743	.24	.14	.15	289.	42.
%RSD	8.548	.7588	.1566	.1894	.3749	2.266

#1	-.8198	31.63	88.17	76.58	77080.	1880.
#2	-.9542	31.30	88.42	76.69	77190.	1800.
#3	-.8323	31.17	88.20	76.86	76640.	1820.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11490.	1327.	1461.	53.31	23.09	-1.160
Stddev	65.	6.	10.	.12	1.23	.896
%RSD	.5678	.4430	.7115	.2282	5.318	77.25

#1	11520.	1325.	1469.	53.18	24.42	-1.698
#2	11530.	1333.	1465.	53.42	22.84	-.1255
#3	11410.	1322.	1449.	53.33	22.00	-1.655

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111193-B-1-B@4 Acquired: 3/30/2016 23:50:47 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.778	-.9893	168.4	112.1	12.47	1.141
Stddev	1.075	1.751	.9	.5	.20	.375
%RSD	38.69	177.0	.5414	.4212	1.577	32.83
#1	2.253	-.8376	168.8	111.6	12.31	1.446
#2	4.014	-2.811	167.4	112.3	12.69	.7227
#3	2.066	.6806	169.0	112.5	12.42	1.253

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.788	35.53	2366.	984.4
Stddev	.396	.06	3.	20.3
%RSD	6.833	.1672	.1226	2.057
#1	5.495	35.48	2368.	1005.
#2	6.238	35.52	2368.	982.7
#3	5.631	35.59	2363.	965.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2955.8	31355.	5079.7
Stddev	16.8	392.	44.0
%RSD	.56830	1.2499	.86634
#1	2936.8	31042.	5032.6
#2	2968.7	31229.	5086.5
#3	2961.9	31795.	5119.8

Sample Name: MB 460-348315/1-A Acquired: 3/30/2016 22:40:51 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.038	1.458	-6326	-0607	.0498	-6.870
Stddev	7.368	1.150	.0600	.0777	.1151	3.052
%RSD	242.5	78.88	9.485	128.0	231.5	44.43
#1	8.780	2.560	-.5926	-.1416	-.0670	-3.402
#2	5.604	.2658	-.6037	-.0540	.0530	-8.064
#3	-5.269	1.547	-.7016	.0134	.1632	-9.145

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1023	-.0568	-.0302	-2.496	-2.296	23.09
Stddev	.0594	.0985	.2754	.112	8.842	19.14
%RSD	58.03	173.3	913.3	4.495	385.1	82.92
#1	-.0924	.0249	-.0240	-2.377	-9.951	40.40
#2	-.0485	-.1661	-.3086	-2.510	7.382	26.34
#3	-.1661	-.0293	.2421	-2.600	-4.319	2.524

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.5170	.0348	39.26	-.6579	-.1281	-.9200
Stddev	4.174	.0785	6.35	.3804	.7190	1.007
%RSD	807.4	225.8	16.17	57.82	561.3	109.5
#1	.6460	.0628	45.02	-.9101	.5078	-2.062
#2	4.626	-.0539	32.45	-.8433	-.9084	-.5393
#3	-3.720	.0954	40.30	-.2204	.0163	-.1585

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-348315/1-A Acquired: 3/30/2016 22:40:51 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.520	.1600	-.1908	.5306	2.209	-.2976
Stddev	.725	.7070	.4061	.0778	.391	.0781
%RSD	47.68	441.8	212.8	14.67	17.71	26.23
#1	-.9846	.8030	-.5146	.4408	2.384	-.2197
#2	-1.231	-.5971	-.3228	.5727	1.761	-.2973
#3	-2.345	.2741	.2649	.5783	2.483	-.3759

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.6153	.2326	.0941	4.802
Stddev	.8510	.0654	.0917	3.462
%RSD	138.3	28.13	97.47	72.08
#1	-.2173	.1608	-.0110	8.254
#2	.5795	.2889	.1581	1.331
#3	1.484	.2480	.1353	4.821

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2859.2	29593.	4741.7
Stddev	13.4	211.	58.1
%RSD	.47033	.71459	1.2258
#1	2874.3	29714.	4717.3
#2	2854.8	29718.	4808.0
#3	2848.5	29349.	4699.8

Sample Name: pds 460-111193-B-1-B Acquired: 3/31/2016 0:02:19 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	39700.	1718.	45.47	2004.	46.79	27660.
Stddev	152.	5.	.59	2.	.20	88.
%RSD	.3823	.3112	1.289	.1053	.4218	.3171
#1	39550.	1717.	45.83	2003.	46.75	27650.
#2	39850.	1713.	44.80	2002.	46.61	27580.
#3	39690.	1724.	45.79	2006.	47.00	27750.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	44.29	486.7	275.1	294.6	75420.	17870.
Stddev	.11	.1	1.2	.8	370.	89.
%RSD	.2514	.0205	.4439	.2636	.4911	.4952
#1	44.19	486.8	274.1	295.2	75250.	17830.
#2	44.25	486.8	274.7	293.7	75160.	17980.
#3	44.41	486.6	276.5	294.8	75840.	17820.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28530.	1736.	19120.	523.1	494.1	425.0
Stddev	74.	6.	90.	1.9	2.0	.3
%RSD	.2579	.3197	.4714	.3649	.3994	.0646
#1	28590.	1736.	19070.	523.9	495.8	425.3
#2	28440.	1731.	19230.	520.9	491.9	424.9
#3	28550.	1742.	19060.	524.5	494.5	424.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-111193-B-1-B Acquired: 3/31/2016 0:02:19 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1756.	1869.	614.8	559.6	477.4	455.1
Stddev	3.	11.	2.6	3.0	1.7	2.1
%RSD	.1808	.5875	.4237	.5293	.3548	.4674
#1	1759.	1868.	612.0	556.6	477.7	453.6
#2	1753.	1860.	615.4	559.7	479.0	454.1
#3	1757.	1881.	617.1	562.5	475.6	457.5

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	467.6	478.0	2801.	1028.
Stddev	2.4	1.9	8.	19.
%RSD	.5059	.3940	.2790	1.891
#1	466.3	478.2	2801.	1017.
#2	466.2	479.8	2794.	1017.
#3	470.4	476.1	2809.	1051.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2865.3	30527.	4955.2
Stddev	9.0	153.	37.8
%RSD	.31265	.49983	.76248
#1	2855.9	30356.	4956.9
#2	2873.7	30647.	4916.6
#3	2866.2	30579.	4992.1

Sample Name: LLQC 6010C soil Acquired: 3/30/2016 22:44:52 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	213.9	14.89	9.497	210.3	1.970	5096.
Stddev	4.7	2.36	.428	.6	.135	23.
%RSD	2.175	15.87	4.508	.2825	6.845	.4457
#1	219.3	13.83	9.076	209.6	1.898	5116.
#2	211.1	13.25	9.932	210.7	2.126	5101.
#3	211.3	17.60	9.484	210.6	1.887	5071.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.081	52.36	10.49	21.90	159.9	4690.
Stddev	.149	.26	.47	.20	13.5	14.
%RSD	3.647	.4876	4.455	.9047	8.452	.2888
#1	4.182	52.21	10.09	21.90	175.5	4688.
#2	4.152	52.65	10.38	22.10	152.3	4678.
#3	3.910	52.20	11.00	21.71	151.9	4705.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5087.	16.06	4919.	42.84	11.44	18.66
Stddev	14.	.03	13.	.46	1.30	1.43
%RSD	.2692	.1957	.2585	1.063	11.38	7.682
#1	5102.	16.08	4931.	43.31	12.94	19.95
#2	5076.	16.02	4905.	42.40	10.74	17.12
#3	5081.	16.07	4920.	42.81	10.64	18.93

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LLQC 6010C soil Acquired: 3/30/2016 22:44:52 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.53	20.63	49.23	30.81	51.02	19.97
Stddev	1.10	1.32	.45	.18	.07	.18
%RSD	5.612	6.380	.9054	.5794	.1423	.8830
#1	19.40	21.01	49.28	30.66	50.96	19.76
#2	20.68	19.17	49.65	31.01	50.98	20.08
#3	18.50	21.72	48.76	30.76	51.10	20.06

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	51.45	19.92	21.82	6.576
Stddev	.33	.04	.18	7.530
%RSD	.6490	.2192	.8092	114.5
#1	51.27	19.93	21.64	12.53
#2	51.84	19.96	21.99	9.086
#3	51.24	19.87	21.81	-1.888

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2845.8	29531.	4755.8
Stddev	3.5	273.	25.5
%RSD	.12300	.92422	.53649
#1	2846.4	29238.	4728.0
#2	2848.9	29580.	4778.1
#3	2842.0	29777.	4761.4

Sample Name: CCB Acquired: 3/31/2016 0:09:47 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.625	1.312	.1825	.3092	-.0377	-2.389
Stddev	6.861	.499	.1837	.1368	.0240	22.85
%RSD	148.3	38.07	100.6	44.24	63.74	956.4

#1	-2.885	1.055	.3854	.4653	-.0495	23.89
#2	1.198	.9930	.1348	.2519	-.0101	-17.54
#3	-12.19	1.887	.0274	.2104	-.0537	-13.52

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0480	.1513	.6369	-3.035	12.61	18.51
Stddev	.0394	.1606	.9302	2.245	18.79	34.82
%RSD	82.12	106.2	146.0	73.99	149.0	188.1

#1	-.0884	.1331	1.710	-.4423	34.30	43.08
#2	-.0097	.0005	.0602	-4.305	2.411	33.77
#3	-.0458	.3201	.1406	-4.357	1.119	-21.34

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	17.36	.6770	31.05	-.2637	.4660	.8921
Stddev	24.58	.9283	4.59	.5361	1.276	1.055
%RSD	141.6	137.1	14.79	203.3	273.8	118.3

#1	45.63	1.749	35.96	.0104	-1.007	1.900
#2	5.414	.1528	30.32	.0799	1.230	-.2053
#3	1.036	.1295	26.87	-.8814	1.176	.9819

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/31/2016 0:09:47 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.295	.1683	.2371	.0344	1.210	.6152
Stddev	.774	1.377	.4566	.2285	.392	.3878
%RSD	59.76	817.9	192.5	663.6	32.38	63.03
#1	2.143	1.598	.7481	.1656	1.579	1.047
#2	.6277	.0559	.0942	.1670	1.251	.5024
#3	1.113	-1.149	-.1309	-.2294	.7991	.2964

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2677	.1214	1.601	-13.53
Stddev	.6449	.0171	1.957	10.12
%RSD	240.9	14.06	122.2	74.81
#1	-.4281	.1406	3.859	-5.235
#2	-.8172	.1156	.5310	-10.55
#3	.4423	.1080	.4124	-24.81

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2801.2	29945.	4725.3
Stddev	6.6	61.	20.8
%RSD	.23466	.20414	.43945
#1	2793.7	30007.	4702.0
#2	2805.2	29884.	4742.0
#3	2804.9	29945.	4731.7

Sample Name: LCSSRM 460-348315/2- Acquired: 3/30/2016 22:48:49 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 4X

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	34320.	448.8	188.4	1532.	293.3	30950.
Stddev	164.	3.7	.3	2.	.6	37.
%RSD	.4764	.8236	.1766	.1286	.2088	.1181
#1	34140.	448.9	188.0	1531.	292.9	30910.
#2	34360.	452.5	188.7	1532.	294.0	30980.
#3	34460.	445.1	188.4	1535.	293.1	30970.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	679.2	769.7	879.1	481.9	71620.	10800.
Stddev	.3	1.5	4.9	.7	275.	51.
%RSD	.0480	.1975	.5535	.1370	.3832	.4752
#1	679.0	768.2	874.0	481.8	71330.	10860.
#2	679.0	771.2	879.7	481.3	71650.	10770.
#3	679.6	769.6	883.7	482.6	71880.	10770.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11860.	1970.	11050.	738.0	657.0	361.8
Stddev	48.	3.	47.	2.7	4.8	1.1
%RSD	.4030	.1436	.4274	.3719	.7377	.2951
#1	11810.	1973.	11020.	734.9	651.8	362.5
#2	11860.	1968.	11030.	739.9	661.4	362.4
#3	11900.	1970.	11110.	739.2	657.8	360.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCSSRM 460-348315/2- Acquired: 3/30/2016 22:48:49 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment: 4X

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	709.8	862.2	440.6	896.0	662.5	776.8
Stddev	3.3	.6	2.2	1.0	4.3	3.2
%RSD	.4615	.0659	.5092	.1070	.6516	.4181
#1	706.2	862.4	438.1	896.0	657.6	773.4
#2	710.6	862.6	442.5	897.0	665.5	779.9
#3	712.6	861.6	441.2	895.1	664.5	777.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	486.9	386.1	1884.	1952.
Stddev	1.1	.7	8.	19.
%RSD	.2286	.1836	.4273	.9538
#1	485.6	386.9	1875.	1955.
#2	487.8	385.5	1888.	1970.
#3	487.3	386.0	1890.	1933.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2895.2	30476.	4975.2
Stddev	3.5	53.	36.3
%RSD	.12049	.17392	.72985
#1	2891.9	30448.	4983.9
#2	2894.8	30443.	4935.3
#3	2898.8	30537.	5006.3

Sample Name: 460-110789-E-8-C@4 Acquired: 3/31/2016 0:33:25 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	27800.	17.49	.4089	118.8	1.683	71740.
Stddev	111.	.80	.5422	.2	.051	289.
%RSD	.3990	4.589	132.6	.1396	3.052	.4034
#1	27860.	18.41	.0330	119.0	1.720	71500.
#2	27870.	17.15	1.031	118.8	1.625	71650.
#3	27680.	16.92	.1632	118.6	1.705	72060.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.8640	28.34	152.4	140.4	66730.	2287.
Stddev	.0856	.18	1.2	1.7	97.	18.
%RSD	9.909	.6281	.8092	1.197	.1459	.7783
#1	-.9615	28.35	152.3	141.3	66710.	2298.
#2	-.8012	28.51	151.2	138.5	66640.	2266.
#3	-.8294	28.16	153.7	141.5	66830.	2297.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	41380.	478.3	3371.	99.81	48.13	-1.170
Stddev	143.	2.1	33.	.60	1.02	1.235
%RSD	.3448	.4347	.9864	.6048	2.118	105.5
#1	41290.	477.3	3391.	99.20	46.95	-2.562
#2	41300.	476.9	3388.	100.4	48.71	-.7417
#3	41540.	480.7	3332.	99.82	48.73	-.2066

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-110789-E-8-C@4 Acquired: 3/31/2016 0:33:25 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.768	-8412	188.9	95.73	42.69	4.747
Stddev	2.900	.7940	.5	.53	.60	.165
%RSD	76.97	94.38	.2505	.5581	1.410	3.466
#1	7.029	-1.322	188.9	95.26	43.20	4.583
#2	1.475	.0752	188.4	95.61	42.03	4.912
#3	2.801	-1.277	189.3	96.31	42.84	4.747

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	2.489	88.63	2080.	1047.
Stddev	.819	.11	6.	20.
%RSD	32.91	.1190	.2645	1.868
#1	2.511	88.73	2086.	1044.
#2	3.297	88.65	2075.	1030.
#3	1.659	88.52	2080.	1068.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2806.4	29396.	4940.0
Stddev	14.5	112.	22.6
%RSD	.51753	.38059	.45769
#1	2792.2	29267.	4934.6
#2	2805.9	29464.	4920.5
#3	2821.2	29457.	4964.8

Sample Name: MB 460-359261/1-A Acquired: 3/30/2016 22:52:29 Type: QC

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-4.435	-.0556	-.1814	.0141	-.0175	.5463
Stddev	4.048	.9236	.2766	.1029	.0917	30.41
%RSD	91.27	1662.	152.5	731.8	523.4	5566.

#1	-.4114	-.3197	-.0994	.0847	.0361	-21.64
#2	-8.507	.9713	.0449	.0614	-.1233	35.21
#3	-4.387	-.8183	-.4898	-.1040	.0347	-11.92

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0822	.0081	.4417	-3.246	38.65	-9.703
Stddev	.0357	.0434	1.332	.982	77.03	21.08
%RSD	43.41	534.3	301.5	30.25	199.3	217.2

#1	-.0431	.0566	-.5630	-4.317	-2.297	-17.93
#2	-.1131	-.0050	1.952	-2.387	127.5	14.25
#3	-.0902	-.0272	-.0643	-3.036	-9.252	-25.42

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.303	1.151	31.17	-.2976	.9661	-.1759
Stddev	15.73	1.960	8.37	.3155	.6091	1.039
%RSD	476.2	170.2	26.86	106.0	63.05	590.3

#1	-7.457	-.0079	22.36	-.5517	.3060	.3766
#2	21.35	3.414	32.14	-.3967	1.086	.4695
#3	-3.988	.0481	39.02	.0556	1.506	-1.374

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-359261/1-A Acquired: 3/30/2016 22:52:29 Type: QC

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.4962	-.6071	.0064	.6540	.9325	.0086
Stddev	2.725	.2096	.3484	.3235	.3989	.1376
%RSD	549.3	34.53	5401.	49.46	42.78	1599.

#1	1.069	-.6695	-.3947	.9882	1.122	.1112
#2	-3.643	-.3734	.2325	.3425	1.202	-.1477
#3	1.086	-.7785	.1815	.6314	.4742	.0623

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.2779	.0167	1.103	7.619
Stddev	.5624	.0050	1.880	13.33
%RSD	202.4	30.09	170.4	175.0

#1	.0708	.0126	.0022	10.51
#2	.0222	.0153	3.274	19.27
#3	-.9268	.0223	.0331	-6.923

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2832.4	29743.	4774.2
Stddev	5.4	168.	50.4
%RSD	.18897	.56549	1.0547

#1	2838.2	29937.	4831.3
#2	2827.7	29657.	4736.1
#3	2831.3	29636.	4755.1

Sample Name: 460-111152-A-13-B@4 Acquired: 3/31/2016 0:48:57 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4018.	5.329	.0299	390.0	.1401	26990.
Stddev	8.	1.095	.0436	2.0	.0672	77.
%RSD	.2060	20.54	145.6	.5184	47.98	.2851

#1	4012.	6.437	.0476	391.7	.0626	26900.
#2	4027.	5.302	-.0197	387.7	.1752	27000.
#3	4014.	4.248	.0619	390.5	.1825	27050.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.1037	6.417	150.4	540.4	27800.	200.0
Stddev	.0319	.077	1.1	.3	54.	31.3
%RSD	30.80	1.198	.7421	.0599	.1936	15.64

#1	-.1106	6.470	149.7	540.6	27850.	204.6
#2	-.0689	6.452	151.7	540.0	27820.	166.6
#3	-.1316	6.329	149.9	540.6	27740.	228.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2110.	345.3	1337.	22.46	2718.	4.940
Stddev	2.	.3	5.	.13	5.	.292
%RSD	.1173	.0955	.3943	.5910	.1914	5.905

#1	2107.	344.9	1343.	22.40	2715.	4.774
#2	2111.	345.3	1335.	22.37	2724.	5.277
#3	2112.	345.5	1333.	22.62	2714.	4.769

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111152-A-13-B@4 Acquired: 3/31/2016 0:48:57 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0263	-1.800	10.85	733.6	3.121	3.657
Stddev	2.507	1.099	.30	1.8	.509	.208
%RSD	9533.	61.07	2.745	.2391	16.30	5.687
#1	2.014	-1.539	11.06	731.6	3.371	3.721
#2	-2.791	-3.007	10.98	734.5	2.535	3.826
#3	.8560	-.8550	10.51	734.8	3.456	3.425

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	14.39	38.15	190.6	411.2
Stddev	.36	.03	.5	13.7
%RSD	2.485	.0878	.2736	3.337
#1	13.98	38.11	190.9	403.9
#2	14.61	38.17	190.8	402.7
#3	14.59	38.17	190.0	427.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2773.6	29744.	4820.5
Stddev	12.2	63.	21.5
%RSD	.43845	.21106	.44540
#1	2762.1	29680.	4845.2
#2	2772.4	29805.	4805.8
#3	2786.4	29749.	4810.7

Sample Name: LCS 460-359261/2-A Acquired: 3/30/2016 22:56:32 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1939.	1908.	49.14	1970.	47.46	19750.
Stddev	11.	7.	.55	3.	.21	73.
%RSD	.5615	.3681	1.116	.1637	.4461	.3700

#1	1947.	1913.	48.80	1974.	47.70	19790.
#2	1943.	1900.	49.77	1968.	47.37	19790.
#3	1926.	1911.	48.83	1968.	47.31	19670.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	50.64	496.5	205.0	224.9	1069.	17320.
Stddev	.10	.7	1.8	2.1	19.	22.
%RSD	.1925	.1389	.8579	.9149	1.743	.1257

#1	50.75	497.2	204.2	222.9	1074.	17300.
#2	50.57	496.6	207.0	227.0	1085.	17340.
#3	50.61	495.8	203.8	224.7	1049.	17330.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19750.	505.4	18950.	517.3	522.0	463.7
Stddev	89.	.4	42.	.6	.3	1.7
%RSD	.4508	.0744	.2197	.1227	.0530	.3656

#1	19780.	505.8	18960.	517.8	522.2	464.7
#2	19810.	505.4	18990.	517.6	522.0	464.5
#3	19640.	505.0	18910.	516.6	521.7	461.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: LCS 460-359261/2-A Acquired: 3/30/2016 22:56:32 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2019.	2130.	486.8	514.1	515.5	482.3
Stddev	10.	11.	3.9	2.4	1.4	2.2
%RSD	.4814	.5245	.8108	.4733	.2628	.4661

#1	2030.	2139.	485.4	514.8	517.0	484.2
#2	2012.	2117.	491.3	511.4	514.4	479.8
#3	2015.	2133.	483.8	516.1	515.0	482.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	508.9	475.8	505.3	34.57
Stddev	2.9	1.4	2.4	19.98
%RSD	.5687	.2930	.4785	57.78

#1	510.4	474.4	505.6	19.95
#2	505.6	475.7	507.6	26.44
#3	510.7	477.2	502.8	57.33

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2857.9	29649.	4840.2
Stddev	20.3	242.	41.9
%RSD	.70859	.81785	.86641

#1	2874.8	29914.	4882.1
#2	2863.3	29440.	4798.3
#3	2835.4	29592.	4840.1

Sample Name: 460-111152-A-14-B@4 Acquired: 3/31/2016 0:52:48 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22020.	48.84	.6153	224.2	1.343	23780.
Stddev	137.	1.79	.0751	2.2	.033	99.
%RSD	.6227	3.664	12.21	.9994	2.441	.4166

#1	21890.	50.33	.6228	222.0	1.341	23670.
#2	22010.	49.33	.5367	224.2	1.311	23800.
#3	22160.	46.86	.6864	226.5	1.377	23860.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.187	14.96	213.7	4759.	49390.	3318.
Stddev	.143	.15	1.9	49.	443.	7.
%RSD	12.05	1.011	.8961	1.039	.8958	.1975

#1	1.209	14.79	212.5	4708.	48930.	3310.
#2	1.035	14.99	212.7	4762.	49440.	3320.
#3	1.318	15.08	215.9	4807.	49810.	3323.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	6868.	877.1	235.0	54.46	1755.	2.916
Stddev	46.	3.7	2.7	.46	19.	.359
%RSD	.6644	.4175	1.148	.8460	1.082	12.31

#1	6816.	873.5	238.1	53.94	1733.	3.198
#2	6884.	876.9	233.2	54.79	1762.	2.512
#3	6902.	880.8	233.7	54.66	1769.	3.037

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111152-A-14-B@4 Acquired: 3/31/2016 0:52:48 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.018	-1.557	61.99	1669.	15.25	2.581
Stddev	3.042	2.972	.96	9.	.28	.130
%RSD	298.9	190.9	1.547	.5486	1.805	5.029
#1	-4.385	-2.451	60.90	1659.	15.56	2.573
#2	1.531	-3.980	62.36	1671.	15.03	2.715
#3	-.1983	1.759	62.70	1677.	15.15	2.456

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	96.66	49.01	920.5	1209.
Stddev	.95	.26	10.1	45.
%RSD	.9840	.5314	1.092	3.714
#1	96.50	48.71	910.4	1164.
#2	95.80	49.13	920.6	1210.
#3	97.68	49.18	930.5	1254.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2800.6	30048.	4919.0
Stddev	5.6	184.	83.6
%RSD	.20142	.61368	1.6992
#1	2804.2	29856.	4827.7
#2	2803.5	30063.	4991.8
#3	2794.1	30224.	4937.5

Sample Name: CCB Acquired: 3/31/2016 1:00:27 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.677	-.4077	-.4743	.2436	.0715	-20.41
Stddev	9.418	1.035	.2089	.0940	.0808	2.97
%RSD	256.1	254.0	44.05	38.59	113.1	14.53
#1	-3.680	-1.590	-.3807	.1803	.1275	-23.30
#2	5.741	.0317	-.3286	.3517	.1081	-17.37
#3	-13.09	.3357	-.7137	.1990	-.0212	-20.56

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0733	-.0054	.0320	-5.081	-5.281	-4.896
Stddev	.0703	.2156	.1645	.239	8.305	12.84
%RSD	95.85	4024.	514.3	4.704	157.3	262.2
#1	-.1319	.2189	.1017	-5.168	-8.013	-11.56
#2	-.0928	-.0239	.1502	-5.264	-11.88	9.903
#3	.0046	-.2111	-.1559	-4.811	4.047	-13.03

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.506	.0844	24.22	-.7788	.0761	-.0453
Stddev	1.508	.0408	3.32	.4281	.2498	1.120
%RSD	43.01	48.37	13.71	54.97	328.2	2473.
#1	5.037	.0866	26.96	-.3285	-.1030	.6208
#2	2.022	.1242	25.17	-1.181	-.0301	.5822
#3	3.459	.0426	20.53	-.8272	.3615	-1.339

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/31/2016 1:00:27 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.530	-.1986	-.1201	.1241	.7681	.6379
Stddev	2.585	2.166	.6773	.1711	.4963	.3416
%RSD	73.24	1091.	563.8	137.9	64.61	53.55
#1	6.380	2.141	-.0214	.3217	.3741	1.029
#2	1.336	-.6001	-.8414	.0209	.6048	.3998
#3	2.874	-2.136	.5024	.0298	1.325	.4846

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.3125	.1387	.5472	-1.594
Stddev	.4632	.0231	.2700	27.63
%RSD	148.2	16.63	49.34	1733.
#1	-.8098	.1431	.8030	-26.37
#2	.1067	.1592	.5737	-6.612
#3	-.2345	.1137	.2650	28.20

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2756.2	29431.	4795.5
Stddev	2.6	143.	28.5
%RSD	.09280	.48453	.59359
#1	2754.8	29531.	4764.0
#2	2759.1	29494.	4803.1
#3	2754.6	29267.	4819.4

Sample Name: 460-111152-A-16-B@4 Acquired: 3/31/2016 1:12:19 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	9966.	25.10	.3077	147.6	1.059	2261.
Stddev	51.	1.55	.1569	.4	.110	3.
%RSD	.5125	6.159	51.00	.2512	10.36	.1421

#1	10020.	26.31	.1373	148.0	1.186	2258.
#2	9919.	23.36	.4462	147.4	.9981	2264.
#3	9960.	25.64	.3395	147.4	.9940	2261.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.3942	6.227	169.5	5547.	40830.	1026.
Stddev	.1618	.204	1.6	13.	112.	13.
%RSD	41.04	3.280	.9528	.2423	.2731	1.263

#1	.2138	6.002	170.5	5556.	40960.	1017.
#2	.4425	6.280	170.3	5554.	40780.	1041.
#3	.5264	6.400	167.6	5532.	40750.	1021.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1844.	172.8	914.1	29.93	2475.	-.2929
Stddev	9.	.9	2.9	.36	5.	.4068
%RSD	.4808	.5255	.3191	1.219	.2177	138.9

#1	1853.	172.1	913.8	29.71	2481.	.1326
#2	1846.	173.9	917.2	30.35	2474.	-.3332
#3	1835.	172.5	911.4	29.72	2470.	-.6781

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111152-A-16-B@4 Acquired: 3/31/2016 1:12:19 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.455	-.8274	28.73	948.1	14.12	5.516
Stddev	1.065	.8750	.35	.3	.46	.210
%RSD	73.18	105.8	1.224	.0336	3.248	3.814
#1	.7399	-.0700	28.44	948.1	13.59	5.605
#2	2.679	-.6270	29.12	948.5	14.39	5.666
#3	.9467	-1.785	28.64	947.9	14.38	5.275

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	41.08	17.51	314.5	864.4
Stddev	.63	.10	1.1	15.4
%RSD	1.542	.5552	.3637	1.784
#1	41.79	17.63	315.7	847.9
#2	40.84	17.46	314.2	867.1
#3	40.59	17.46	313.5	878.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2806.9	30060.	4969.9
Stddev	17.2	191.	55.1
%RSD	.61159	.63607	1.1081
#1	2788.9	29844.	4915.7
#2	2808.8	30131.	4968.2
#3	2823.0	30206.	5025.8

Sample Name: 460-111115-A-1-B DU Acquired: 3/30/2016 23:00:10 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	95.07	3.950	8.818	39.83	-.0184	19520.
Stddev	10.00	1.428	.177	.22	.1602	23.
%RSD	10.52	36.16	2.006	.5462	871.2	.1167
#1	99.60	2.403	8.839	39.87	.1605	19540.
#2	102.0	5.218	8.984	40.03	-.1484	19530.
#3	83.61	4.228	8.632	39.60	-.0672	19500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1124	.2041	71.77	76.18	247.9	4144.
Stddev	.0840	.0347	.35	.34	4.6	2.
%RSD	74.71	17.01	.4946	.4479	1.845	.0404
#1	.0308	.2431	72.06	76.21	242.7	4142.
#2	.1079	.1923	71.37	75.82	249.4	4146.
#3	.1985	.1768	71.87	76.50	251.5	4144.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4001.	10.91	23760.	73.52	5.019	-.6368
Stddev	8.	.08	194.	.15	1.047	.5086
%RSD	.2115	.7176	.8158	.2073	20.87	79.87
#1	3998.	10.82	23660.	73.63	5.819	-.5349
#2	3994.	10.96	23630.	73.60	3.834	-.1868
#3	4011.	10.95	23980.	73.35	5.405	-1.189

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111115-A-1-B DU Acquired: 3/30/2016 23:00:10 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.561	1.130	-.0479	59.81	47.48	-.0149
Stddev	2.075	.434	.6856	.06	.35	.0917
%RSD	132.9	38.45	1432.	.0999	.7295	616.0
#1	.5255	1.603	-.1855	59.79	47.22	.0885
#2	-3.624	1.038	.6961	59.87	47.87	-.0467
#3	-1.585	.7483	-.6542	59.76	47.34	-.0865

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.971	187.4	3.504	3611.
Stddev	.494	1.4	.147	36.
%RSD	25.07	.7558	4.196	1.010
#1	2.193	185.7	3.673	3638.
#2	1.405	188.1	3.434	3569.
#3	2.316	188.3	3.405	3625.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2817.5	29299.	4774.5
Stddev	14.6	237.	36.0
%RSD	.51716	.80956	.75390
#1	2834.1	29573.	4799.2
#2	2811.7	29146.	4791.1
#3	2806.8	29180.	4733.2

Sample Name: CCB Acquired: 3/31/2016 1:19:55 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-9.028	2.394	-1.623	.2208	-.0443	-20.93
Stddev	4.243	1.431	.2149	.0829	.0226	3.15
%RSD	46.99	59.79	132.4	37.52	51.04	15.07
#1	-12.42	2.975	-.2213	.1354	-.0186	-24.32
#2	-10.39	3.443	-.3415	.2262	-.0531	-20.38
#3	-4.272	.7634	.0759	.3009	-.0612	-18.08

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0302	.1520	.0332	-3.470	-3.586	16.15
Stddev	.0799	.0718	.2381	.147	6.301	11.58
%RSD	264.5	47.23	716.9	4.234	175.7	71.74
#1	-.0367	.2330	-.1265	-3.522	-7.099	7.134
#2	.0086	.0960	.3069	-3.304	-7.346	29.21
#3	.1186	.1271	-.0808	-3.584	3.688	12.09

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3.847	.1073	17.31	-.6664	.4821	-.1877
Stddev	2.294	.0362	9.84	.1908	.6007	.4222
%RSD	59.62	33.73	56.82	28.63	124.6	224.9
#1	2.421	.1109	27.17	-.4970	.6268	.1104
#2	6.493	.1416	7.501	-.6291	.9973	-.6708
#3	2.627	.0695	17.26	-.8731	-.1776	-.0028

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/31/2016 1:19:55 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.4895	-1.835	-.0657	.1231	1.109	.6213
Stddev	2.439	.214	.1148	.2184	.267	.4782
%RSD	498.4	11.65	174.7	177.4	24.12	76.96
#1	-2.850	-2.003	-.0745	-.1221	1.354	1.102
#2	3.222	-1.594	-.1758	.2966	1.149	.6160
#3	-1.469	-1.908	.0532	.1947	.8235	.1458

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.0451	.0905	.6419	-7.496
Stddev	.3768	.1258	.1377	3.518
%RSD	834.7	138.9	21.45	46.93
#1	-.0509	-.0058	.7798	-3.443
#2	.4607	.0446	.6413	-9.293
#3	-.2743	.2328	.5044	-9.753

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2803.7	29273.	4742.9
Stddev	13.3	308.	89.4
%RSD	.47469	1.0511	1.8844
#1	2788.4	29124.	4692.6
#2	2809.9	29068.	4689.9
#3	2812.8	29627.	4846.1

Sample Name: 460-111115-A-1-A Acquired: 3/30/2016 23:04:07 Type: Unk

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	157.3	1.943	8.276	39.53	-.0341	19210.
Stddev	5.0	.660	.365	.14	.0248	119.
%RSD	3.159	33.96	4.407	.3633	72.51	.6165

#1	162.7	1.639	8.165	39.61	-.0626	19350.
#2	152.9	1.490	8.684	39.37	-.0177	19170.
#3	156.3	2.701	7.980	39.62	-.0221	19130.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.1155	.0778	70.83	75.13	242.9	4150.
Stddev	.0107	.0914	.66	.68	2.0	39.
%RSD	9.308	117.5	.9384	.9067	.8192	.9490

#1	.1241	.1691	71.59	75.89	245.2	4191.
#2	.1035	.0780	70.37	74.56	241.8	4112.
#3	.1189	-.0137	70.52	74.95	241.7	4147.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	3936.	10.76	23700.	73.16	4.769	-.4208
Stddev	29.	.09	157.	.20	.302	.7804
%RSD	.7312	.8420	.6609	.2737	6.335	185.5

#1	3970.	10.85	23880.	73.05	4.963	-1.313
#2	3920.	10.67	23590.	73.39	4.421	-.0866
#3	3920.	10.75	23630.	73.04	4.923	.1369

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111115-A-1-A Acquired: 3/30/2016 23:04:07 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.3928	.8361	.1601	59.38	47.66	-.3226
Stddev	3.411	.6824	.2715	.10	.40	.1053
%RSD	868.4	81.61	169.5	.1766	.8465	32.64
#1	-4.305	1.311	-.1329	59.50	47.21	-.3916
#2	1.957	1.143	.2102	59.32	47.79	-.2014
#3	1.170	.0542	.4030	59.32	47.99	-.3747

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.908	186.0	3.367	3644.
Stddev	.387	1.9	.067	16.
%RSD	20.27	1.023	1.998	.4295
#1	1.843	188.2	3.434	3632.
#2	1.557	184.7	3.366	3639.
#3	2.322	185.1	3.300	3662.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2820.1	29584.	4818.0
Stddev	6.1	134.	61.2
%RSD	.21728	.45272	1.2700
#1	2817.0	29432.	4749.4
#2	2827.2	29686.	4866.9
#3	2816.2	29633.	4837.8

Sample Name: 460-111115-A-1-C MS Acquired: 3/30/2016 23:12:07 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2111.	1965.	58.37	2057.	48.43	39540.
Stddev	15.	4.	.25	2.	.16	49.
%RSD	.7062	.2090	.4306	.1057	.3353	.1240
#1	2094.	1967.	58.65	2056.	48.30	39570.
#2	2117.	1961.	58.30	2056.	48.37	39550.
#3	2121.	1968.	58.17	2060.	48.61	39480.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	51.33	504.3	280.6	311.2	1323.	22030.
Stddev	.18	.8	.3	.3	14.	42.
%RSD	.3555	.1614	.1081	.0839	1.080	.1893
#1	51.50	503.7	280.8	311.3	1339.	21990.
#2	51.14	504.0	280.8	310.9	1320.	22020.
#3	51.36	505.2	280.2	311.3	1311.	22070.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24030.	522.4	43880.	597.1	533.3	480.2
Stddev	38.	1.0	62.	1.6	.4	1.3
%RSD	.1584	.1853	.1417	.2702	.0795	.2739
#1	24060.	523.5	43930.	596.6	533.0	480.3
#2	23990.	521.9	43900.	595.9	533.0	481.5
#3	24030.	521.8	43810.	599.0	533.8	478.9

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111115-A-1-C MS Acquired: 3/30/2016 23:12:07 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2056.	2125.	495.0	574.4	582.8	494.2
Stddev	6.	3.	.9	1.4	1.0	.7
%RSD	.3123	.1430	.1868	.2493	.1800	.1376
#1	2062.	2125.	496.1	574.9	582.9	493.4
#2	2056.	2129.	494.7	575.5	581.7	494.7
#3	2049.	2123.	494.3	572.8	583.8	494.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	521.3	674.1	522.1	3854.
Stddev	1.8	.5	.7	32.
%RSD	.3385	.0743	.1417	.8183
#1	519.4	674.3	521.3	3879.
#2	522.8	674.5	522.1	3864.
#3	521.7	673.6	522.8	3819.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2779.0	29095.	4816.3
Stddev	15.9	205.	31.5
%RSD	.57329	.70376	.65416
#1	2794.3	29330.	4852.0
#2	2780.3	29003.	4792.5
#3	2762.5	28952.	4804.3

Sample Name: CCV Acquired: 3/30/2016 23:15:47 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	123600.	2464.	1253.	10110.	953.1	123500.
Stddev	589.	6.	3.	14.	2.3	405.
%RSD	.4762	.2412	.2354	.1401	.2384	.3276

#1	123100.	2471.	1250.	10130.	951.1	123100.
#2	124300.	2460.	1256.	10100.	952.5	123900.
#3	123600.	2462.	1254.	10100.	955.6	123500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1241.	2463.	5032.	12240.	102800.	48110.
Stddev	1.	1.	19.	15.	182.	133.
%RSD	.0448	.0406	.3693	.1187	.1767	.2766

#1	1241.	2464.	5014.	12240.	102600.	47960.
#2	1240.	2463.	5051.	12240.	102900.	48200.
#3	1240.	2462.	5032.	12220.	102800.	48180.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124800.	4961.	123400.	2523.	7645.	964.0
Stddev	363.	12.	437.	4.	8.	.8
%RSD	.2912	.2480	.3539	.1547	.1073	.0785

#1	124500.	4949.	122900.	2527.	7654.	963.8
#2	125200.	4974.	123800.	2522.	7639.	964.9
#3	124700.	4960.	123400.	2519.	7641.	963.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/30/2016 23:15:47 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2485.	2478.	2429.	2429.	1007.	2484.
Stddev	7.	2.	3.	2.	2.	3.
%RSD	.3014	.0804	.1190	.0709	.1825	.1028

#1	2494.	2478.	2431.	2428.	1009.	2482.
#2	2481.	2476.	2431.	2431.	1005.	2483.
#3	2481.	2480.	2426.	2430.	1007.	2487.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	999.5	4856.	10300.	9363.
Stddev	.0	6.	61.	26.
%RSD	.0035	.1285	.5900	.2727

#1	999.5	4858.	10240.	9377.
#2	999.5	4862.	10310.	9379.
#3	999.6	4849.	10350.	9334.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2555.4	27374.	4584.7
Stddev	3.9	51.	34.9
%RSD	.15117	.18495	.76060

#1	2552.2	27417.	4625.0
#2	2554.4	27318.	4563.8
#3	2559.7	27387.	4565.4

Sample Name: CCB Acquired: 3/30/2016 23:19:31 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.6216	.4353	-.1123	.2414	.1082	-11.62
Stddev	6.090	1.405	.0132	.1007	.0622	4.79
%RSD	979.7	322.8	11.76	41.72	57.48	41.19
#1	-7.647	.8784	-.1272	.1714	.1720	-14.67
#2	3.157	1.565	-.1022	.3569	.1049	-6.104
#3	2.625	-1.138	-.1074	.1961	.0477	-14.08

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0654	-.0036	-.1935	-3.763	-.5852	13.47
Stddev	.0064	.0809	.7542	.237	2.121	27.09
%RSD	9.737	2218.	389.8	6.297	362.5	201.1
#1	-.0600	-.0927	-.7946	-3.919	1.860	43.63
#2	-.0637	.0652	.6528	-3.491	-1.935	5.596
#3	-.0724	.0166	-.4387	-3.881	-1.681	-8.814

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.036	.1811	35.99	-.3997	1.061	.8300
Stddev	2.257	.0594	9.69	.3005	1.231	.9082
%RSD	44.81	32.79	26.93	75.19	116.0	109.4
#1	4.297	.1564	37.71	-.7285	.5372	.2465
#2	7.570	.2488	44.70	-.3311	2.467	1.876
#3	3.242	.1380	25.55	-.1393	.1788	.3672

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: CCB Acquired: 3/30/2016 23:19:31 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.100	-.4195	.1408	.1142	1.589	.6104
Stddev	.323	1.226	.2172	.1770	.453	.6714
%RSD	29.38	292.2	154.2	154.9	28.51	110.0
#1	.7270	-.4410	.3903	.2042	1.853	1.349
#2	1.297	-1.634	.0377	.2282	1.847	.4455
#3	1.276	.8168	-.0056	-.0897	1.066	.0369

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	.2868	.0927	.6488	4.139
Stddev	.4728	.0743	.1090	18.65
%RSD	164.8	80.19	16.81	450.5
#1	-.2591	.0855	.7102	-9.158
#2	.5671	.0222	.7133	25.45
#3	.5525	.1703	.5229	-3.877

Check ?	Chk Pass	Chk Pass	Chk Pass	None
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2794.0	29867.	4714.8
Stddev	5.6	133.	19.3
%RSD	.19985	.44481	.40951
#1	2794.6	29920.	4692.6
#2	2799.3	29964.	4727.8
#3	2788.2	29715.	4724.0

Sample Name: pds 460-111115-A-1-A Acquired: 3/30/2016 23:27:29 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2022.	1882.	56.70	1979.	46.89	38350.
Stddev	7.	1.	.64	.	.07	117.
%RSD	.3528	.0737	1.133	.0138	.1396	.3060
#1	2027.	1881.	56.82	1979.	46.82	38340.
#2	2024.	1884.	57.28	1979.	46.95	38470.
#3	2014.	1881.	56.01	1979.	46.89	38240.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49.15	483.4	271.4	298.3	1292.	21200.
Stddev	.19	.4	1.4	1.3	2.	70.
%RSD	.3945	.0843	.5043	.4315	.1894	.3298
#1	49.05	483.8	270.6	299.1	1294.	21240.
#2	49.38	483.5	273.0	296.8	1293.	21240.
#3	49.03	483.0	270.7	298.9	1290.	21120.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23200.	502.4	42340.	575.3	514.4	455.1
Stddev	48.	1.5	179.	.6	.7	3.2
%RSD	.2074	.3054	.4230	.1025	.1286	.6937
#1	23230.	503.0	42490.	575.9	515.0	453.5
#2	23230.	503.6	42390.	574.8	514.4	453.0
#3	23150.	500.7	42140.	575.1	513.7	458.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: pds 460-111115-A-1-A Acquired: 3/30/2016 23:27:29 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1973.	2041.	474.1	552.3	559.6	474.6
Stddev	13.	6.	2.4	2.6	1.4	1.8
%RSD	.6442	.3122	.5043	.4712	.2517	.3891
#1	1984.	2049.	476.9	555.3	560.7	476.1
#2	1959.	2039.	472.9	551.0	558.0	472.5
#3	1976.	2037.	472.6	550.5	560.1	475.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	503.2	648.1	503.8	3709.
Stddev	2.5	1.4	.6	75.
%RSD	.4911	.2196	.1254	2.020
#1	506.0	648.5	503.1	3709.
#2	501.7	649.3	503.9	3634.
#3	501.8	646.5	504.4	3784.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2774.6	28985.	4729.1
Stddev	13.7	215.	69.5
%RSD	.49213	.74315	1.4705
#1	2790.2	29186.	4750.0
#2	2768.9	28758.	4651.4
#3	2764.8	29012.	4785.7

Sample Name: 460-111164-G-1-A Acquired: 3/30/2016 23:35:05 Type: Unk

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	257.2	5.250	-.3339	74.15	-.0222	40580.
Stddev	9.9	1.240	.2211	.07	.1095	274.
%RSD	3.867	23.62	66.23	.0908	492.3	.6754

#1	263.4	5.760	-.3138	74.10	.0954	40810.
#2	245.8	3.836	-.5644	74.22	-.1211	40650.
#3	262.5	6.153	-.1235	74.11	-.0410	40280.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	.0560	-.3448	6.495	-2.806	76.93	30130.
Stddev	.0202	.2215	.072	.189	5.98	200.
%RSD	36.11	64.24	1.107	6.744	7.772	.6631

#1	.0382	-.5389	6.499	-2.645	80.71	30210.
#2	.0780	-.3921	6.420	-2.758	80.04	30280.
#3	.0519	-.1035	6.564	-3.014	70.04	29900.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22010.	26.59	F 387400.	-.4249	.5811	-.8761
Stddev	101.	.26	3194.	.5648	.5041	1.245
%RSD	.4609	.9750	.8244	132.9	86.75	142.1

#1	22080.	26.87	388400.	.2240	1.154	-.7164
#2	22050.	26.55	390000.	-.6926	.3845	.2810
#3	21890.	26.35	383800.	-.8061	.2050	-2.193

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-111164-G-1-A Acquired: 3/30/2016 23:35:05 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-2.270	1.668	10.35	1.504	137.5	5.736
Stddev	2.212	2.141	.20	.108	.4	.142
%RSD	97.47	128.4	1.960	7.147	.2830	2.484
#1	-4.791	3.992	10.46	1.628	137.1	5.762
#2	-.6517	1.236	10.11	1.438	137.6	5.582
#3	-1.367	-.2240	10.47	1.446	137.9	5.863

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.5852	611.1	4.709	4004.
Stddev	.6299	3.1	.333	33.
%RSD	107.6	.5136	7.063	.8120
#1	.1375	610.8	4.718	4010.
#2	-1.018	614.4	4.372	3969.
#3	-.8752	608.1	5.037	4033.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2735.7	28190.	4809.3
Stddev	9.7	154.	47.3
%RSD	.35482	.54697	.98389
#1	2746.6	28065.	4782.7
#2	2732.2	28143.	4781.3
#3	2728.2	28363.	4863.9

Sample Name: MB 460-359565/1-A@2 Acquired: 3/30/2016 23:39:13 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-3.172	.9087	-.5478	.0014	-.0272	-15.68
Stddev	18.25	1.377	.1164	.0278	.0994	1.81
%RSD	575.2	151.5	21.24	1982.	366.2	11.58
#1	-16.60	2.440	-.4323	.0298	-.0171	-13.83
#2	-10.52	-.2254	-.6650	.0002	.0669	-17.46
#3	17.60	.5113	-.5462	-.0258	-.1313	-15.75

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.0647	-.0042	-.1879	-2.668	-1.289	5.658
Stddev	.1128	.3236	.1330	.716	8.554	21.22
%RSD	174.4	7736.	70.81	26.82	663.4	375.0
#1	-.1935	.3356	-.0446	-3.229	6.938	28.26
#2	.0168	-.0396	-.3075	-2.912	-10.14	-13.84
#3	-.0175	-.3086	-.2116	-1.862	-.6699	2.553

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.316	.0104	97.38	-.4016	-.3816	.9848
Stddev	5.192	.0339	21.98	.2886	.9795	.8950
%RSD	224.1	324.4	22.57	71.86	256.7	90.88
#1	-3.471	.0012	121.2	-.1257	-.0048	.1023
#2	3.857	.0480	93.13	-.3775	-1.493	1.892
#3	6.564	-.0178	77.83	-.7014	.3536	.9602

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: MB 460-359565/1-A@2 Acquired: 3/30/2016 23:39:13 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.050	-1.646	-.0673	.5460	1.771	-.1886
Stddev	1.330	.740	.2655	.0645	.310	.2254
%RSD	126.7	44.99	394.5	11.82	17.47	119.5
#1	2.580	-1.177	-.3257	.6133	2.060	-.1470
#2	.4104	-1.261	.2049	.4847	1.445	-.4319
#3	.1607	-2.499	-.0812	.5400	1.809	.0131

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	-.0730	.0442	.0549	.0833
Stddev	1.052	.0695	.3399	18.59
%RSD	1441.	157.3	619.4	22320.
#1	.3870	.1232	-.2550	-15.27
#2	-1.277	.0169	.4183	-5.230
#3	.6707	-.0075	.0013	20.75

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2796.7	28970.	4658.4
Stddev	4.2	116.	19.0
%RSD	.14912	.40060	.40829
#1	2801.2	29093.	4658.4
#2	2792.9	28955.	4677.4
#3	2796.1	28862.	4639.4

Sample Name: LCSSRM 460-359565/2- Acquired: 3/30/2016 23:43:14 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36630.	473.1	198.3	1566.	316.9	33310.
Stddev	54.	2.0	.7	2.	.7	122.
%RSD	.1465	.4252	.3594	.1137	.2094	.3674
#1	36580.	471.9	199.1	1565.	316.2	33440.
#2	36630.	471.9	198.2	1565.	317.2	33290.
#3	36690.	475.4	197.7	1568.	317.4	33190.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	741.1	838.8	933.1	495.1	68790.	11380.
Stddev	.8	.4	2.8	1.0	304.	48.
%RSD	.1099	.0483	.3041	.2117	.4424	.4196
#1	741.8	838.5	936.1	496.1	69100.	11350.
#2	740.2	838.5	932.8	495.1	68780.	11430.
#3	741.3	839.2	930.4	494.0	68490.	11350.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	12430.	2077.	12760.	799.2	671.8	333.5
Stddev	81.	11.	14.	2.7	1.6	2.3
%RSD	.6509	.5086	.1089	.3380	.2430	.6866
#1	12520.	2089.	12770.	801.6	672.5	336.1
#2	12400.	2075.	12750.	799.8	672.9	332.2
#3	12360.	2068.	12770.	796.3	669.9	332.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: LCSSRM 460-359565/2- Acquired: 3/30/2016 23:43:14 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	749.8	942.6	467.8	945.9	698.9	837.3
Stddev	1.5	3.4	1.1	1.8	2.1	1.4
%RSD	.1966	.3659	.2390	.1936	.3002	.1706
#1	750.8	943.9	466.5	946.2	700.5	838.3
#2	750.5	945.2	468.6	947.6	699.7	838.0
#3	748.1	938.7	468.3	944.0	696.5	835.7
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	519.4	427.3	2002.	1614.
Stddev	1.9	.3	7.	3.
%RSD	.3587	.0718	.3278	.1764
#1	520.9	427.1	2009.	1616.
#2	520.0	427.6	2000.	1611.
#3	517.3	427.2	1996.	1616.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2894.0	30347.	4968.2
Stddev	5.8	254.	13.7
%RSD	.20139	.83761	.27522
#1	2887.5	30060.	4953.7
#2	2895.6	30437.	4970.0
#3	2898.8	30544.	4980.8

Sample Name: 460-111193-B-1-C DU Acquired: 3/30/2016 23:46:55 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38710.	6.350	1.055	171.0	1.805	10350.
Stddev	136.	1.516	.071	.3	.044	42.
%RSD	.3503	23.88	6.761	.1881	2.455	.4023

#1	38560.	5.027	1.102	170.7	1.816	10370.
#2	38810.	8.004	1.090	170.8	1.757	10380.
#3	38780.	6.019	.9729	171.3	1.843	10300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.9744	31.63	89.17	77.04	77670.	1848.
Stddev	.1688	.32	.56	.77	275.	14.
%RSD	17.32	1.007	.6284	1.005	.3543	.7605

#1	-1.169	31.50	89.67	77.93	77370.	1832.
#2	-.8764	31.41	89.27	76.58	77740.	1853.
#3	-.8776	32.00	88.56	76.60	77910.	1859.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	11590.	1337.	1481.	53.59	23.65	.1002
Stddev	30.	4.	2.	.31	1.15	1.179
%RSD	.2567	.3003	.1135	.5837	4.864	1177.

#1	11580.	1341.	1482.	53.58	24.04	-.2288
#2	11560.	1339.	1482.	53.28	24.55	1.409
#3	11620.	1333.	1479.	53.90	22.35	-.8798

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111193-B-1-C DU Acquired: 3/30/2016 23:46:55 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.370	-2.618	169.1	112.8	13.55	1.269
Stddev	3.155	.905	.8	.1	.79	.042
%RSD	230.3	34.57	.4625	.0565	5.837	3.294
#1	.0281	-3.438	170.0	112.7	14.31	1.239
#2	-.8923	-1.647	168.4	112.9	13.61	1.251
#3	4.975	-2.770	168.9	112.8	12.73	1.317

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.688	35.73	2383.	998.7
Stddev	.576	.20	7.	11.1
%RSD	10.13	.5537	.2749	1.115
#1	5.084	35.86	2377.	1012.
#2	6.231	35.82	2383.	991.5
#3	5.749	35.50	2390.	993.1

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2929.5	30826.	4964.2
Stddev	5.3	165.	26.6
%RSD	.18080	.53559	.53488
#1	2924.5	30636.	4970.3
#2	2929.1	30902.	4935.1
#3	2935.0	30939.	4987.1

Sample Name: sd 460-111193-B-1-B Acquired: 3/30/2016 23:54:39 Type: Unk

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	7759.	2.247	.0296	34.38	.3882	2104.
Stddev	59.	1.570	.4770	.06	.0082	6.
%RSD	.7548	69.86	1611.	.1727	2.111	.3087

#1	7826.	1.229	-.4126	34.45	.3788	2097.
#2	7732.	4.055	-.0337	34.33	.3936	2106.
#3	7718.	1.457	.5351	34.37	.3922	2109.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2659	6.560	18.07	12.91	16010.	373.3
Stddev	.1364	.282	.31	.47	45.	29.8
%RSD	51.30	4.307	1.718	3.680	.2781	7.978

#1	-.1515	6.301	18.37	12.77	15960.	377.4
#2	-.4168	6.517	17.75	12.52	16040.	341.6
#3	-.2292	6.861	18.10	13.44	16030.	400.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2386.	272.6	316.1	10.39	5.330	-.2145
Stddev	17.	.7	4.6	.05	1.088	1.121
%RSD	.7230	.2665	1.457	.4355	20.42	522.7

#1	2367.	272.6	315.5	10.43	4.450	-1.301
#2	2401.	271.9	320.9	10.41	4.991	-.2808
#3	2391.	273.3	311.8	10.34	6.547	.9383

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: sd 460-111193-B-1-B Acquired: 3/30/2016 23:54:39 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.304	-.2425	34.20	23.13	3.194	-.0283
Stddev	.484	1.375	.20	.14	.147	.2351
%RSD	37.10	566.9	.5946	.6052	4.602	831.7
#1	1.500	.0392	34.38	23.00	3.175	-.2991
#2	.7526	.9694	33.98	23.12	3.058	.0898
#3	1.658	-1.736	34.25	23.28	3.350	.1244

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.156	7.155	468.0	200.9
Stddev	.579	.059	1.3	13.3
%RSD	50.07	.8296	.2880	6.637
#1	.6553	7.158	468.5	216.3
#2	1.022	7.094	469.0	192.7
#3	1.789	7.213	466.5	193.6

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2877.8	30175.	4851.8
Stddev	9.0	65.	23.1
%RSD	.31246	.21628	.47672
#1	2873.6	30165.	4837.5
#2	2888.1	30244.	4839.4
#3	2871.7	30115.	4878.5

Sample Name: CCV Acquired: 3/31/2016 0:06:01 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	123300.	2455.	1241.	10030.	955.5	122000.
Stddev	229.	2.	4.	24.	1.1	304.
%RSD	.1853	.0723	.2854	.2396	.1160	.2489

#1	123200.	2456.	1239.	10040.	954.2	122000.
#2	123500.	2453.	1245.	10000.	956.2	121700.
#3	123100.	2456.	1239.	10040.	956.1	122300.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1234.	2451.	4984.	12230.	101600.	48190.
Stddev	3.	5.	6.	38.	226.	131.
%RSD	.2656	.2083	.1271	.3137	.2227	.2712

#1	1234.	2449.	4984.	12240.	101400.	48080.
#2	1230.	2447.	4978.	12260.	101500.	48330.
#3	1236.	2457.	4991.	12190.	101800.	48160.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	123300.	4899.	123100.	2508.	7580.	960.3
Stddev	109.	11.	265.	9.	23.	3.1
%RSD	.0887	.2272	.2153	.3486	.3063	.3203

#1	123400.	4898.	123000.	2508.	7589.	957.0
#2	123200.	4888.	123400.	2500.	7554.	963.1
#3	123300.	4910.	123000.	2517.	7598.	960.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/31/2016 0:06:01 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2473.	2466.	2422.	2419.	1001.	2473.
Stddev	5.	10.	5.	10.	3.	3.
%RSD	.2049	.4019	.2135	.4247	.2927	.1126

#1	2478.	2466.	2423.	2413.	1000.	2472.
#2	2468.	2476.	2417.	2412.	998.1	2471.
#3	2472.	2456.	2427.	2430.	1004.	2476.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	995.9	4847.	10190.	9511.
Stddev	2.7	5.	48.	71.
%RSD	.2701	.1059	.4723	.7428

#1	997.4	4845.	10170.	9528.
#2	992.8	4853.	10160.	9434.
#3	997.4	4844.	10250.	9572.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2596.9	28040.	4688.5
Stddev	10.6	114.	19.0
%RSD	.40806	.40707	.40609

#1	2602.2	28022.	4710.2
#2	2603.8	28162.	4674.3
#3	2584.7	27936.	4681.2

Sample Name: 460-111193-B-1-D MS Acquired: 3/30/2016 23:58:36 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	48980.	880.4	23.66	1130.	24.89	20380.
Stddev	112.	2.4	.64	3.	.11	89.
%RSD	.2283	.2728	2.698	.2695	.4359	.4350
#1	48870.	877.7	23.01	1128.	24.83	20290.
#2	48980.	881.3	24.29	1129.	24.83	20380.
#3	49090.	882.3	23.69	1134.	25.01	20460.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	22.36	267.1	184.7	193.8	80720.	10330.
Stddev	.23	.8	1.0	.7	437.	21.
%RSD	1.025	.3045	.5532	.3547	.5412	.2065
#1	22.50	266.6	183.9	193.3	80270.	10350.
#2	22.49	268.0	184.3	194.6	80740.	10320.
#3	22.09	266.7	185.9	193.6	81140.	10310.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20760.	1576.	10860.	295.4	265.6	127.9
Stddev	116.	4.	24.	.1	2.4	1.2
%RSD	.5575	.2564	.2191	.0307	.9073	.9679
#1	20630.	1573.	10830.	295.5	262.9	126.9
#2	20800.	1576.	10860.	295.5	267.3	129.3
#3	20860.	1581.	10880.	295.3	266.7	127.4

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111193-B-1-D MS Acquired: 3/30/2016 23:58:36 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	891.6	951.4	405.5	339.9	241.0	227.2
Stddev	4.1	2.0	2.7	.9	.9	.5
%RSD	.4619	.2141	.6661	.2516	.3883	.2015
#1	890.4	951.7	402.5	340.4	240.5	227.0
#2	896.2	953.3	407.8	340.3	242.1	227.8
#3	888.3	949.3	406.2	338.9	240.5	226.9

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	229.1	270.6	2659.	1245.
Stddev	1.2	.2	14.	38.
%RSD	.5082	.0844	.5322	3.032
#1	230.4	270.7	2644.	1209.
#2	228.6	270.3	2660.	1284.
#3	228.2	270.6	2672.	1242.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2918.2	31054.	5117.0
Stddev	8.3	32.	14.7
%RSD	.28533	.10272	.28690
#1	2917.9	31067.	5102.2
#2	2926.7	31077.	5117.3
#3	2910.1	31017.	5131.6

Sample Name: CCVL Acquired: 3/31/2016 0:13:54 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	214.2	15.95	9.841	215.5	1.995	5001.
Stddev	8.7	.60	.117	.4	.055	20.
%RSD	4.052	3.748	1.185	.1964	2.740	.4063

#1	206.1	15.53	9.786	215.5	1.941	4991.
#2	223.4	16.63	9.763	215.9	2.050	4988.
#3	213.2	15.68	9.975	215.1	1.993	5025.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.075	53.21	10.20	20.17	180.5	4750.
Stddev	.125	.19	.29	.07	7.1	47.
%RSD	3.068	.3567	2.795	.3267	3.943	.9904

#1	3.958	53.43	10.07	20.11	173.1	4696.
#2	4.207	53.10	10.00	20.24	181.1	4776.
#3	4.062	53.09	10.53	20.16	187.3	4779.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5068.	15.96	4973.	43.70	11.24	19.36
Stddev	27.	.16	5.	.26	.95	1.14
%RSD	.5329	.9869	.0909	.5966	8.417	5.876

#1	5055.	15.91	4971.	43.41	12.22	18.05
#2	5050.	15.84	4979.	43.92	10.33	20.08
#3	5099.	16.14	4971.	43.78	11.17	19.96

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/31/2016 0:13:54 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	20.35	21.59	50.31	30.90	53.16	20.56
Stddev	2.59	2.32	.42	.06	.71	.22
%RSD	12.74	10.74	.8369	.2087	1.336	1.060
#1	21.98	19.43	50.57	30.88	53.59	20.66
#2	21.72	21.31	49.82	30.85	52.34	20.71
#3	17.36	24.04	50.53	30.98	53.54	20.31

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	52.06	20.13	22.54	F -5.685
Stddev	.97	.05	.07	7.221
%RSD	1.854	.2580	.3200	127.0
#1	50.97	20.10	22.49	-12.47
#2	52.40	20.19	22.50	1.903
#3	52.81	20.10	22.62	-6.485

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2780.6	29758.	4800.1
Stddev	5.8	70.	30.5
%RSD	.20843	.23365	.63477
#1	2775.2	29820.	4808.5
#2	2780.0	29683.	4825.6
#3	2786.7	29771.	4766.4

Sample Name: 460-110789-E-1-F@4 Acquired: 3/31/2016 0:17:54 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28850.	70.69	.3254	79.91	2.176	F 359700.
Stddev	108.	1.70	.1160	.27	.036	1973.
%RSD	.3748	2.408	35.65	.3334	1.669	.5487
#1	28980.	69.17	.4450	80.02	2.201	358300.
#2	28790.	72.53	.3180	80.10	2.134	358700.
#3	28800.	70.38	.2133	79.60	2.192	361900.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit						250000.
Low Limit						-200.0

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.5306	28.73	46.27	261.0	71520.	5755.
Stddev	.0764	.37	.62	1.4	212.	23.
%RSD	14.39	1.280	1.340	.5397	.2968	.3943
#1	-.6133	28.75	45.56	262.4	71590.	5765.
#2	-.4627	29.09	46.73	259.6	71280.	5729.
#3	-.5158	28.35	46.51	261.1	71680.	5771.
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	162200.	641.4	1972.	61.66	51.27	-2.474
Stddev	648.	3.9	5.	.84	1.20	.564
%RSD	.3994	.6122	.2711	1.358	2.336	22.81
#1	161900.	639.4	1978.	61.87	50.45	-1.879
#2	161800.	638.9	1968.	62.38	50.73	-3.001
#3	163000.	645.9	1969.	60.74	52.65	-2.543
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110789-E-1-F@4 Acquired: 3/31/2016 0:17:54 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.537	-1.233	193.5	110.8	26.29	4.954
Stddev	1.351	.858	.5	.6	1.01	.028
%RSD	87.87	69.62	.2517	.5083	3.852	.5593
#1	-2.039	-.7522	193.0	110.1	27.42	4.961
#2	-2.905	-.7226	193.9	110.9	25.98	4.977
#3	-1.503	-2.224	193.6	111.2	25.47	4.923

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	7.423	205.1	2626.	981.4
Stddev	.663	1.3	6.	25.5
%RSD	8.928	.6244	.2096	2.594
#1	7.030	206.6	2633.	1001.
#2	8.189	204.3	2623.	989.9
#3	7.051	204.4	2623.	952.8

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2726.6	29091.	4981.9
Stddev	16.1	164.	24.6
%RSD	.59191	.56290	.49388
#1	2708.3	28908.	4977.0
#2	2732.8	29225.	4960.1
#3	2738.7	29139.	5008.6

Sample Name: 460-110789-E-2-G@4 Acquired: 3/31/2016 0:21:48 Type: Unk

Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	36050.	39.87	1.047	98.24	3.663	41630.
Stddev	98.	1.21	.376	.28	.110	118.
%RSD	.2730	3.038	35.90	.2863	2.990	.2830

#1	36160.	41.25	1.380	98.56	3.789	41600.
#2	36000.	39.02	.6394	98.16	3.592	41540.
#3	35980.	39.33	1.122	98.01	3.608	41770.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.479	46.56	118.3	196.8	110700.	2919.
Stddev	.131	.12	.3	.6	7.	36.
%RSD	8.850	.2670	.2618	.2879	.0064	1.245

#1	-1.338	46.66	118.3	196.2	110700.	2948.
#2	-1.501	46.42	118.0	197.1	110700.	2930.
#3	-1.597	46.61	118.7	197.2	110700.	2878.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	23590.	880.0	2023.	60.28	30.27	1.247
Stddev	68.	2.0	6.	.61	.50	.627
%RSD	.2893	.2257	.2835	1.012	1.664	50.30

#1	23560.	878.3	2027.	60.15	30.83	1.209
#2	23540.	879.5	2016.	60.94	30.12	1.891
#3	23670.	882.2	2026.	59.74	29.85	.6390

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110789-E-2-G@4 Acquired: 3/31/2016 0:21:48 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.482	-2.431	366.9	139.9	44.94	4.048
Stddev	.406	1.620	.8	.3	.36	.140
%RSD	16.37	66.62	.2214	.2236	.7967	3.453
#1	2.558	-1.745	366.3	140.0	45.03	4.203
#2	2.043	-4.281	367.8	140.1	44.54	4.008
#3	2.844	-1.267	366.5	139.5	45.24	3.932

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.021	56.46	2742.	1168.
Stddev	.729	.14	1.	6.
%RSD	71.42	.2403	.0499	.5104
#1	.3882	56.40	2743.	1162.
#2	1.818	56.61	2740.	1174.
#3	.8557	56.36	2742.	1166.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2849.2	29945.	5025.1
Stddev	10.6	203.	65.0
%RSD	.37191	.67887	1.2937
#1	2837.3	29724.	4951.3
#2	2857.6	30124.	5074.0
#3	2852.6	29986.	5049.9

Sample Name: 460-110789-F-5-E@4 Acquired: 3/31/2016 0:25:40 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	28790.	14.66	.4636	71.33	1.762	97390.
Stddev	88.	1.60	.3963	.05	.074	460.
%RSD	.3064	10.91	85.48	.0667	4.209	.4720
#1	28870.	12.81	.3475	71.36	1.846	97620.
#2	28800.	15.45	.1383	71.35	1.706	96860.
#3	28690.	15.70	.9050	71.27	1.732	97690.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.053	45.17	163.6	213.4	89730.	2763.
Stddev	.131	.06	.3	1.1	200.	25.
%RSD	12.43	.1385	.1662	.5365	.2234	.8885
#1	-1.175	45.10	163.9	212.8	89910.	2736.
#2	-.9148	45.19	163.3	214.7	89510.	2784.
#3	-1.071	45.21	163.6	212.6	89760.	2769.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	49670.	703.6	2719.	60.35	30.78	-1.250
Stddev	249.	3.3	4.	.55	.75	1.328
%RSD	.5006	.4691	.1528	.9129	2.440	106.3
#1	49910.	706.2	2722.	59.76	31.64	-.9508
#2	49410.	699.9	2715.	60.46	30.25	-.0970
#3	49690.	704.7	2722.	60.84	30.45	-2.702

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110789-F-5-E@4 Acquired: 3/31/2016 0:25:40 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.916	-3.206	555.3	130.7	57.00	5.070
Stddev	3.981	1.665	2.7	.4	.63	.233
%RSD	207.8	51.95	.4944	.3351	1.109	4.599
#1	2.282	-4.881	552.1	130.2	57.67	5.334
#2	5.701	-1.550	556.5	130.9	56.42	4.987
#3	-2.236	-3.187	557.1	130.9	56.91	4.890

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.033	98.93	3139.	791.7
Stddev	.997	.13	6.	43.5
%RSD	96.46	.1339	.1971	5.489
#1	-.1159	99.09	3147.	785.9
#2	1.663	98.84	3137.	751.5
#3	1.553	98.87	3135.	837.8

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2783.4	29515.	5060.7
Stddev	6.8	318.	84.8
%RSD	.24350	1.0766	1.6762
#1	2776.8	29179.	4962.9
#2	2783.0	29811.	5113.0
#3	2790.3	29554.	5106.4

Sample Name: 460-110789-E-11-D@10 Acquired: 3/31/2016 0:37:18 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	15140.	24.63	.7721	35.50	1.740	39400.
Stddev	653.	1.19	.7637	1.47	.079	1593.
%RSD	4.311	4.836	98.92	4.131	4.511	4.044
#1	14570.	23.52	1.650	34.18	1.686	38020.
#2	15000.	25.89	.4031	35.24	1.703	39040.
#3	15850.	24.48	.2629	37.08	1.830	41140.

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.230	14.93	169.8	58.98	84700.	742.1
Stddev	.161	.75	7.1	2.69	3390.	47.9
%RSD	13.08	5.022	4.200	4.568	4.002	6.452
#1	-1.352	14.35	163.3	56.19	81660.	716.6
#2	-1.047	14.66	168.6	59.19	84080.	712.4
#3	-1.289	15.77	177.4	61.57	88350.	797.4

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24030.	319.0	631.1	35.70	26.96	-1.022
Stddev	947.	12.6	21.2	1.49	1.84	1.327
%RSD	3.940	3.963	3.365	4.173	6.811	129.8
#1	23220.	308.0	607.4	34.70	27.43	-2.538
#2	23810.	316.3	637.5	35.00	24.93	-4.587
#3	25070.	332.8	648.4	37.42	28.51	-.0706

Check ? Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass Chk Pass
High Limit
Low Limit

Sample Name: 460-110789-E-11-D@10 Acquired: 3/31/2016 0:37:18 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-0.0258	-2.236	151.4	94.33	28.93	1.639
Stddev	3.024	2.151	6.6	4.39	1.90	.177
%RSD	11720.	96.16	4.338	4.655	6.565	10.79
#1	3.057	-3.782	145.3	90.20	27.00	1.718
#2	-.1467	-3.146	150.5	93.85	28.98	1.763
#3	-2.988	.2196	158.3	98.94	30.80	1.437

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.105	38.15	1184.	385.9
Stddev	.398	1.60	49.	23.1
%RSD	36.02	4.183	4.130	5.990
#1	1.529	36.77	1140.	370.1
#2	1.045	37.79	1176.	375.3
#3	.7402	39.90	1237.	412.5

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2787.0	29184.	4807.4
Stddev	10.7	91.	44.8
%RSD	.38444	.31300	.93148
#1	2782.7	29129.	4849.3
#2	2799.2	29290.	4812.6
#3	2779.1	29133.	4760.2

Sample Name: 460-110789-F-7-E@4 Acquired: 3/31/2016 0:29:32 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	24110.	9.577	.3151	67.02	1.712	202100.
Stddev	45.	1.423	.1228	.39	.143	1213.
%RSD	.1865	14.86	38.96	.5795	8.342	.5999
#1	24070.	11.12	.4368	66.57	1.770	200900.
#2	24160.	9.300	.3172	67.25	1.817	202100.
#3	24110.	8.313	.1913	67.24	1.549	203300.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.6908	36.23	174.6	198.6	81900.	3057.
Stddev	.0347	.60	1.5	1.1	303.	33.
%RSD	5.020	1.645	.8851	.5364	.3700	1.071
#1	-.6556	35.57	172.9	197.8	81620.	3021.
#2	-.6920	36.43	175.8	199.9	81870.	3084.
#3	-.7249	36.71	175.3	198.2	82220.	3066.

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	92790.	712.0	1883.	62.35	18.07	-2.273
Stddev	334.	4.0	13.	.93	1.03	.458
%RSD	.3602	.5647	.6996	1.488	5.706	20.16
#1	92440.	708.0	1870.	62.36	18.80	-2.390
#2	92810.	711.9	1897.	61.42	18.52	-1.768
#3	93110.	716.0	1883.	63.28	16.89	-2.662

Check ? **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass** **Chk Pass**
High Limit
Low Limit

Sample Name: 460-110789-F-7-E@4 Acquired: 3/31/2016 0:29:32 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5.331	.2196	584.1	88.75	162.7	5.895
Stddev	.858	.8705	3.2	.27	1.3	.086
%RSD	16.10	396.5	.5558	.3061	.7704	1.450
#1	5.362	1.028	580.8	88.49	161.2	5.983
#2	4.458	-.7016	584.1	88.72	163.2	5.889
#3	6.174	.3319	587.3	89.03	163.5	5.812

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1.187	130.9	2863.	731.5
Stddev	.174	.5	3.	23.6
%RSD	14.66	.3744	.1174	3.228
#1	1.311	130.3	2859.	704.7
#2	.9878	131.2	2864.	749.2
#3	1.261	131.1	2866.	740.7

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2735.2	28931.	4979.3
Stddev	20.3	185.	32.1
%RSD	.74051	.63780	.64470
#1	2713.6	28719.	4953.0
#2	2738.3	29024.	4969.7
#3	2753.8	29051.	5015.0

Sample Name: 460-110789-F-12-D@4 Acquired: 3/31/2016 0:41:11 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	38740.	37.74	1.028	194.4	3.894	192700.
Stddev	103.	1.69	.169	.6	.077	141.
%RSD	.2667	4.478	16.40	.2957	1.979	.0729

#1	38760.	39.21	.8345	195.1	3.928	192500.
#2	38820.	35.90	1.142	194.2	3.806	192600.
#3	38620.	38.11	1.108	194.0	3.949	192800.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.7897	34.83	116.4	109.5	117900.	4756.
Stddev	.1046	.24	.5	.3	233.	16.
%RSD	13.24	.6879	.4200	.2549	.1981	.3353

#1	-.6982	34.96	116.7	109.3	118100.	4739.
#2	-.7672	34.56	115.8	109.4	117600.	4770.
#3	-.9037	34.98	116.7	109.8	117900.	4760.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	113000.	827.5	2728.	68.93	113.9	.4317
Stddev	142.	.6	3.	.96	2.5	2.709
%RSD	.1255	.0750	.1090	1.396	2.180	627.4

#1	113100.	826.9	2730.	69.85	112.2	.4915
#2	112900.	827.4	2725.	69.01	112.7	3.110
#3	113000.	828.1	2728.	67.93	116.7	-2.306

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-110789-F-12-D@4 Acquired: 3/31/2016 0:41:11 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2.733	-2.350	167.5	141.3	36.96	4.894
Stddev	1.689	1.118	.4	.7	.78	.120
%RSD	61.78	47.55	.2313	.4637	2.100	2.446
#1	2.067	-1.231	167.9	140.8	36.80	5.021
#2	1.479	-3.466	167.3	141.0	37.81	4.783
#3	4.653	-2.355	167.2	142.1	36.28	4.879

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	5.433	139.1	1674.	1651.
Stddev	.944	.4	5.	24.
%RSD	17.37	.3065	.3140	1.466
#1	5.928	139.5	1680.	1670.
#2	4.345	138.7	1672.	1624.
#3	6.026	139.2	1671.	1660.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2783.2	29833.	5102.9
Stddev	20.0	284.	33.2
%RSD	.71689	.95268	.65020
#1	2760.2	29515.	5068.8
#2	2795.6	29924.	5104.9
#3	2793.9	30061.	5135.0

Sample Name: 460-111152-A-12-B@4 Acquired: 3/31/2016 0:45:03 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5115.	10.53	-1.800	74.20	.5220	3667.
Stddev	15.	.86	.1759	.32	.1278	41.
%RSD	.3017	8.142	97.71	.4263	24.49	1.124
#1	5133.	9.568	-.2465	73.85	.6519	3674.
#2	5108.	10.80	-.3129	74.27	.5178	3704.
#3	5105.	11.22	.0194	74.47	.3964	3622.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-.2205	5.983	197.3	1315.	22410.	590.9
Stddev	.0473	.127	1.7	.	26.	32.5
%RSD	21.43	2.124	.8725	.0318	.1165	5.503
#1	-.1660	5.859	197.8	1315.	22430.	621.3
#2	-.2511	6.113	198.7	1314.	22430.	594.9
#3	-.2442	5.975	195.4	1315.	22380.	556.6

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1807.	126.9	106.5	12.46	872.1	73.51
Stddev	22.	1.1	3.9	.49	3.3	.93
%RSD	1.227	.8883	3.633	3.949	.3788	1.266
#1	1818.	126.7	103.1	11.96	869.0	72.79
#2	1822.	128.1	110.7	12.94	871.7	74.56
#3	1782.	125.9	105.7	12.49	875.5	73.17

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111152-A-12-B@4 Acquired: 3/31/2016 0:45:03 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1.882	-3.003	15.32	421.4	4.105	.9326
Stddev	2.983	1.085	.13	1.0	.913	.0563
%RSD	158.5	36.12	.8358	.2382	22.25	6.037
#1	-1.405	-2.526	15.42	420.2	3.051	.9518
#2	2.632	-2.238	15.18	421.8	4.638	.8693
#3	4.418	-4.244	15.38	422.1	4.627	.9769

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	29.94	13.73	203.9	551.5
Stddev	.14	.17	.2	11.5
%RSD	.4655	1.220	.0868	2.078
#1	29.78	13.55	203.7	551.3
#2	29.98	13.88	204.0	540.1
#3	30.05	13.77	203.9	563.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2816.1	30187.	4848.3
Stddev	11.1	159.	30.7
%RSD	.39278	.52808	.63302
#1	2804.0	30049.	4816.9
#2	2818.4	30151.	4849.9
#3	2825.8	30362.	4878.2

Sample Name: CCV Acquired: 3/31/2016 0:56:42 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124100.	2484.	1260.	10180.	949.7	122400.
Stddev	175.	9.	7.	7.	3.1	268.
%RSD	.1406	.3614	.5747	.0719	.3218	.2184

#1	123900.	2476.	1252.	10170.	948.9	122200.
#2	124200.	2482.	1262.	10190.	953.1	122400.
#3	124300.	2494.	1266.	10180.	947.2	122700.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1246.	2460.	5065.	12230.	103800.	47740.
Stddev	.	.	17.	32.	515.	89.
%RSD	.0174	.0165	.3411	.2607	.4965	.1856

#1	1246.	2460.	5045.	12190.	103200.	47750.
#2	1246.	2460.	5071.	12230.	103900.	47820.
#3	1246.	2459.	5078.	12260.	104200.	47640.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	124400.	4877.	123700.	2551.	7729.	961.4
Stddev	533.	10.	198.	3.	18.	2.8
%RSD	.4285	.2086	.1601	.1105	.2266	.2926

#1	123900.	4872.	123600.	2549.	7711.	962.2
#2	124400.	4871.	123600.	2550.	7729.	963.8
#3	125000.	4889.	124000.	2554.	7746.	958.3

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/31/2016 0:56:42 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2508.	2450.	2431.	2414.	1018.	2496.
Stddev	19.	5.	5.	9.	5.	4.
%RSD	.7432	.1854	.2255	.3711	.4628	.1736

#1	2487.	2452.	2427.	2424.	1013.	2492.
#2	2515.	2452.	2437.	2411.	1020.	2500.
#3	2522.	2444.	2429.	2407.	1021.	2497.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1007.	4802.	10400.	9523.
Stddev	3.	8.	96.	11.
%RSD	.2940	.1747	.9264	.1144

#1	1005.	4808.	10300.	9532.
#2	1006.	4806.	10410.	9511.
#3	1011.	4792.	10490.	9527.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2564.3	27917.	4662.2
Stddev	3.8	102.	38.0
%RSD	.14838	.36687	.81522

#1	2564.8	28032.	4681.9
#2	2567.9	27883.	4618.4
#3	2560.3	27835.	4686.4

Sample Name: CCVL Acquired: 3/31/2016 1:04:30 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	216.5	15.71	9.973	219.4	1.946	5120.
Stddev	17.7	1.14	.444	.5	.093	22.
%RSD	8.180	7.280	4.451	.2173	4.767	.4208

#1	207.5	14.50	10.19	219.1	2.045	5140.
#2	236.9	16.78	9.463	219.9	1.932	5097.
#3	205.1	15.84	10.27	219.2	1.861	5123.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.186	54.01	10.80	19.61	184.1	4731.
Stddev	.143	.34	.41	.29	15.2	36.
%RSD	3.409	.6356	3.781	1.470	8.240	.7676

#1	4.298	53.65	11.27	19.34	179.6	4700.
#2	4.025	54.34	10.50	19.91	171.6	4771.
#3	4.234	54.04	10.65	19.59	201.0	4723.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5234.	16.28	5031.	44.24	11.88	19.39
Stddev	21.	.11	19.	.35	.15	1.46
%RSD	.4078	.6733	.3727	.7977	1.287	7.543

#1	5222.	16.23	5049.	44.25	11.72	20.68
#2	5221.	16.20	5032.	44.58	11.91	19.69
#3	5258.	16.40	5011.	43.88	12.02	17.80

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/31/2016 1:04:30 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.53	20.06	51.20	31.04	54.26	20.77
Stddev	4.34	1.09	.38	.22	.58	.05
%RSD	22.20	5.423	.7366	.6943	1.063	.2189
#1	14.63	21.32	51.40	30.79	53.64	20.82
#2	22.88	19.36	50.76	31.16	54.38	20.76
#3	21.07	19.52	51.43	31.17	54.77	20.73

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	53.30	20.11	23.35	F -3.568
Stddev	.80	.04	.09	17.97
%RSD	1.499	.1765	.3844	503.7
#1	52.81	20.15	23.45	12.33
#2	54.22	20.10	23.31	.0302
#3	52.87	20.08	23.29	-23.07

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2718.8	29122.	4695.6
Stddev	11.6	152.	16.7
%RSD	.42740	.52271	.35588
#1	2728.5	29015.	4676.4
#2	2722.0	29296.	4704.0
#3	2705.9	29054.	4706.4

Sample Name: 460-111152-A-15-B@4 Acquired: 3/31/2016 1:08:29 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	57890.	69.70	1.475	409.6	8.961	7223.
Stddev	273.	1.07	.573	2.4	.051	59.
%RSD	.4709	1.531	38.82	.5786	.5646	.8187
#1	57720.	70.75	.8335	411.3	8.952	7156.
#2	58200.	69.73	1.934	410.7	8.915	7243.
#3	57740.	68.62	1.658	406.9	9.015	7269.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	-1.772	23.90	235.7	630.0	134800.	8435.
Stddev	.112	.14	1.9	1.8	707.	49.
%RSD	6.304	.5951	.8099	.2821	.5243	.5815
#1	-1.663	23.82	233.9	630.7	134200.	8379.
#2	-1.886	23.81	235.4	631.3	135600.	8470.
#3	-1.766	24.06	237.7	627.9	134700.	8457.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	16640.	721.9	780.6	83.53	622.2	3.143
Stddev	88.	5.5	7.6	.62	4.3	1.530
%RSD	.5286	.7614	.9731	.7390	.6935	48.66
#1	16540.	715.6	778.9	83.93	626.1	1.468
#2	16690.	724.9	774.1	83.85	623.0	4.466
#3	16690.	725.3	789.0	82.82	617.6	3.497

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-111152-A-15-B@4 Acquired: 3/31/2016 1:08:29 Type: Unk
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.131	-5.241	173.9	2429.	153.9	16.81
Stddev	1.104	.316	.7	7.	.9	.16
%RSD	26.71	6.037	.4213	.2997	.5783	.9604
#1	3.042	-5.003	173.5	2421.	154.9	16.77
#2	4.103	-5.120	173.4	2434.	153.4	16.99
#3	5.249	-5.600	174.7	2432.	153.3	16.67

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	54.07	76.05	2142.	1559.
Stddev	1.07	.02	10.	27.
%RSD	1.978	.0306	.4725	1.721
#1	55.15	76.07	2145.	1582.
#2	53.01	76.03	2150.	1567.
#3	54.05	76.04	2131.	1530.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				
Low Limit				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2869.0	30780.	5126.7
Stddev	25.7	106.	31.3
%RSD	.89729	.34297	.61099
#1	2845.1	30884.	5162.7
#2	2865.7	30673.	5105.4
#3	2896.3	30783.	5112.1

Sample Name: CCV Acquired: 3/31/2016 1:16:10 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	123500.	2517.	1277.	10180.	937.2	126200.
Stddev	318.	6.	3.	12.	1.7	684.
%RSD	.2577	.2538	.2226	.1162	.1814	.5418

#1	123600.	2520.	1277.	10180.	937.8	125800.
#2	123200.	2522.	1274.	10160.	935.3	125800.
#3	123800.	2510.	1280.	10190.	938.5	127000.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	1250.	2460.	5118.	12070.	105700.	47420.
Stddev	1.	2.	27.	22.	523.	82.
%RSD	.0693	.0723	.5242	.1803	.4945	.1723

#1	1251.	2462.	5104.	12090.	105400.	47340.
#2	1249.	2459.	5101.	12050.	105400.	47420.
#3	1250.	2458.	5149.	12070.	106300.	47500.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	128100.	5045.	123300.	2543.	7758.	959.5
Stddev	646.	23.	199.	2.	7.	4.0
%RSD	.5047	.4481	.1615	.0948	.0945	.4164

#1	127800.	5033.	123300.	2545.	7766.	963.7
#2	127600.	5032.	123100.	2540.	7752.	955.8
#3	128800.	5071.	123400.	2544.	7755.	959.0

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCV Acquired: 3/31/2016 1:16:10 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	2524.	2451.	2418.	2430.	1014.	2485.
Stddev	7.	16.	8.	1.	2.	1.
%RSD	.2805	.6591	.3137	.0553	.2019	.0452
#1	2532.	2469.	2412.	2428.	1015.	2485.
#2	2518.	2439.	2414.	2429.	1014.	2484.
#3	2521.	2445.	2426.	2431.	1011.	2486.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	1011.	4829.	10520.	9272.
Stddev	2.	9.	77.	73.
%RSD	.1902	.1802	.7301	.7845
#1	1013.	4837.	10470.	9354.
#2	1011.	4830.	10490.	9247.
#3	1009.	4820.	10610.	9215.

Check ?	Chk Pass	Chk Pass	Chk Pass	None
Value				
Range				

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2609.0	27602.	4782.7
Stddev	7.0	280.	47.1
%RSD	.26883	1.0139	.98439
#1	2611.1	27845.	4823.6
#2	2614.6	27664.	4793.3
#3	2601.1	27296.	4731.2

Sample Name: CCVL Acquired: 3/31/2016 1:23:58 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Al3961	As1890	Ag3280	Ba2335	Be3130	Ca3181
Line	396.152 { 85}	189.042 {478}	328.068 {103}	233.527 {445}	313.042 {108}	318.128 {106}
IS Ref	(Y_3710)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_3710)	(Y_3600)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	224.4	15.67	10.11	216.8	1.972	5167.
Stddev	10.0	.87	.05	.5	.028	3.
%RSD	4.436	5.577	.5205	.2151	1.421	.0515

#1	235.0	15.88	10.08	217.3	1.999	5169.
#2	223.0	16.42	10.09	216.4	1.976	5169.
#3	215.2	14.71	10.17	216.7	1.943	5164.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Cd2265	Co2286	Cr2677	Cu3247	Fe2714	K_7664
Line	226.502 {449}	228.616 {447}	267.716 {126}	324.754 {104}	271.441 {124}	766.490 { 44}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_3600)	(Y_3600)	(Y_3710)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	4.185	53.39	10.63	20.77	183.2	4715.
Stddev	.064	.23	.09	.39	4.3	32.
%RSD	1.529	.4282	.8502	1.893	2.322	.6891

#1	4.130	53.26	10.69	21.22	178.4	4688.
#2	4.255	53.65	10.67	20.50	186.3	4751.
#3	4.171	53.26	10.53	20.60	185.0	4706.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Mg2790	Mn2576	Na5895	Ni2316	Pb2203	Sb2068
Line	279.079 {121}	257.610 {131}	589.592 { 57}	231.604 {446}	220.353 {453}	206.833 {463}
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	5260.	16.43	4951.	44.09	12.92	19.60
Stddev	26.	.01	29.	.33	1.58	.96
%RSD	.4992	.0837	.5854	.7530	12.24	4.882

#1	5278.	16.42	4969.	44.37	13.51	20.23
#2	5230.	16.44	4965.	44.18	11.13	20.06
#3	5271.	16.44	4917.	43.73	14.12	18.50

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Sample Name: CCVL Acquired: 3/31/2016 1:23:58 Type: QC
Method: sw03182016(v16) Mode: CONC Corr. Factor: 1.000000
User: admin Custom ID1: Custom ID2: Custom ID3:
Comment:

Elem	Se196	Ti1908	V_2924	Zn2062	B_2089	Mo2020
Line	196.090 {472}	190.856 {477}	292.402 {115}	206.200 {463}	208.959 {461}	202.030 {467}
IS Ref	(Y_2243)	(Y_2243)	(Y_3600)	(Y_2243)	(Y_2243)	(Y_2243)
Units	ppb	ppb	ppb	ppb	ppb	ppb
Avg	19.19	22.22	50.73	31.04	53.41	20.51
Stddev	.40	2.91	.37	.17	.40	.23
%RSD	2.066	13.09	.7283	.5607	.7457	1.117

#1	18.80	24.77	51.00	31.24	53.86	20.75
#2	19.59	19.05	50.31	30.92	53.20	20.48
#3	19.17	22.83	50.87	30.95	53.15	20.30

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value						
Range						

Elem	Sn1899	Sr4077	Ti3349	Si2881
Line	189.989 {477}	407.771 { 83}	334.941 {101}	288.158 {117}
IS Ref	(Y_2243)	(Y_3710)	(Y_3600)	(Y_2243)
Units	ppb	ppb	ppb	ppb
Avg	52.83	20.15	22.97	F 5.694
Stddev	.64	.14	.10	16.53
%RSD	1.207	.7028	.4482	290.2

#1	52.50	20.28	23.07	-8.810
#2	52.42	20.15	22.86	23.68
#3	53.56	20.00	22.99	2.206

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail
Value				200.0
Range				-30.50%

Int. Std.	Y_2243	Y_3600	Y_3710
Line	224.306 {450}	360.073 { 94}	371.030 { 91}
Units	Cts/S	Cts/S	Cts/S
Avg	2815.5	29528.	4890.0
Stddev	11.1	71.	49.0
%RSD	.39535	.23998	1.0022

#1	2802.7	29447.	4840.0
#2	2822.0	29561.	4891.9
#3	2821.9	29577.	4938.0

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-110815-1

SDG No.: _____

Batch Number: 359247 Batch Start Date: 03/28/16 18:47 Batch Analyst: Esteban, Edgardo ABatch Method: 3050B Batch End Date: 03/28/16 23:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	ME_LCS-int 00055	ME_LCSS_87 00006	
MB 460-359247/1		3050B, 6010C		CALC NOT SET TO RUN	1.00 g	50 mL			
LCSSRM 460-359247/2		3050B, 6010C		CALC NOT SET TO RUN	1.00 g	50 mL		1 g	
460-110815-A-1	B2	3050B, 6010C	T	CALC NOT SET TO RUN	1.20 g	50 mL			
460-110815-A-1 DU	B2	3050B, 6010C	T	CALC NOT SET TO RUN	1.23 g	50 mL			
460-110815-A-1 MS	B2	3050B, 6010C	T	CALC NOT SET TO RUN	1.22 g	50 mL	2 mL		
460-110815-A-2	C2	3050B, 6010C	T	CALC NOT SET TO RUN	1.20 g	50 mL			

Batch Notes	
Balance ID	#35
Hydrogen Peroxide ID	0000135237
Logbook ID for diluted Nitric	MPR278
Lot # of Nitric Acid	0000129810
Hot Block ID	#1
Oven, Bath or Block Temperature 1	95c Degrees C
Pipette ID	#42
Thermometer ID	ICP-4 (CF -1)
Digestion Tube/Cup ID	J227204-6407 (50 ml Dg tube)
Uncorrected Temperature	96c Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-110815-1

SDG No.: _____

Project: DEC Elmont546; Site: E130150

Client Sample ID

B2

C2

Lab Sample ID

460-110815-1

460-110815-2

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-110815-1
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture RL Date: 02/15/2007 17:07

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		1	
Percent Solids		1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-110815-1
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture XRL Date: 01/01/2007 16:49

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		1	
Percent Solids		1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-110815-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/26/2016 12:16 End Date: 03/26/2016 12:16

[illegible]

Prep Types

$$T = \text{Total}/NA$$

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-110815-1

SDG No.: _____

Batch Number: 358888 Batch Start Date: 03/26/16 12:16 Batch Analyst: Martinez, VictorBatch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
460-110815-A-1	B2	Moisture	T	44	1.03 g	8.37 g	7.81 g		
460-110815-A-2	C2	Moisture	T	45	1.02 g	7.73 g	7.14 g		
460-110908-A-6 DU		Moisture	T	63	1.02 g	8.17 g	6.66 g		

Batch Notes	
Balance ID	104 No Unit
Date samples were placed in the oven	3/26/16
Oven Temp In	105 Degrees C
Time samples were place in the oven	12:40
Date samples were removed from oven	3/27/16
Oven Temp Out	103 Degrees C
Time Samples were removed from oven	15:35
Oven ID	3
Thermometer ID	117021
Uncorrected In Temperature	105 Celsius
Uncorrected Out Temperature	103 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Moisture

Page 1 of 1

Subcontract Data

Shipping and Receiving Documents


TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

777 New Durham Road
Edison, New Jersey 08817
Phone: (732) 549-3900 Fax: (732) 549-3679

Name (for report and invoice) IAN HOFMANN		Sample's Name (Printed) EAR-SC		Site/Project Identification DEC-ELMONT S46 / SR# E136156	
Company EAR		P. O. #		State (Location of site): NJ: <input type="checkbox"/> NY: <input checked="" type="checkbox"/> Other: <input type="checkbox"/>	
Address 285 Atlantic Ave		Analysis Turnaround Time Standard <input checked="" type="checkbox"/> (10-DAY) Rush Charges Authorized For: 2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input type="checkbox"/>		Regulatory Program: <input type="checkbox"/> DKAP: <input type="checkbox"/>	
City Patuxent		State MD		LAB USE ONLY Project No:	
Phone 81-447-6406		Fax 81-447-6447		Job No. 10815	
Sample Identification		Date	Time	Matrix	No. of Cont.
BA	3/22/16	1305	S	1	X
CA	3/22/16	1300	S	1	X
 460-110815 Chain of Custody					
Preservation Used: 1 = ICE, 2 = HCl, 3 = H ₂ SO ₄ , 4 = HNO ₃ , 5 = NaOH 6 = Other unpres , 7 = Other _____					
Soil: 6 Water: 6					

Special Instructions **CHIEF B DETENTURES REQUESTED**

Water Metals Filtered (Yes/No)?

Relinquished by Spot	Company EAR	Date / Time 3/22/16 1417	Received by [Signature]	Company [Signature]
Relinquished by [Signature]	Company F.O.	Date / Time 3/22/16 19:40	Received by [Signature]	Company [Signature]
Relinquished by	Company	Date / Time	Received by	Company
Relinquished by	Company	Date / Time	Received by	Company

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132),
Massachusetts (M-NJ312), North Carolina (No. 576) **6.8 / 1.8 IRT C.W.C.**

110815

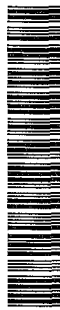
2

COOLANT IN		RAW		CONNECTED		RAW		CONNECTED	
Cooler #1	0.8°C	Cooler #4	°C	Cooler #7	°C	Cooler #10	°C		
Cooler #2	°C	Cooler #5	°C	Cooler #8	°C	Cooler #11	°C		
Cooler #3	°C	Cooler #6	°C	Cooler #9	°C	Cooler #12	°C		

COOLANT IN		RAW		CONNECTED		RAW		CONNECTED	
Cooler #1	0.8°C	Cooler #4	°C	Cooler #7	°C	Cooler #10	°C		
Cooler #2	°C	Cooler #5	°C	Cooler #8	°C	Cooler #11	°C		
Cooler #3	°C	Cooler #6	°C	Cooler #9	°C	Cooler #12	°C		

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Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 460-110815-1

Login Number: 110815

List Source: TestAmerica Edison

List Number: 1

Creator: Lysy, Susan

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	
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	1.8°C IR#6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 460-110815-1

Login Number: 110815
List Number: 2
Creator: Hulbert, Michael J

List Source: TestAmerica Buffalo
List Creation: 03/25/16 11:42 AM

Question	Answer	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	3.7 #1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	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	
Sample Preservation Verified	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.	N/A	
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	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	