

ANALYTICAL REPORT

Job Number: 460-112069-1

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
5/26/2016 9:06 AM

Melissa Haas, Project Manager I
777 New Durham Road, Edison, NJ, 08817
(203)944-1310
melissa.haas@testamericainc.com
05/26/2016
Revision: 1

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TestAmerica Laboratories, Inc.

TestAmerica Edison 777 New Durham Road, Edison, NJ 08817
Tel (732) 549-3900 Fax (732) 549-3679 www.testamericainc.com



Job Number: 460-112069-1

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
5/26/2016 9:06 AM

Melissa Haas

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CASE NARRATIVE

Client: New York State D.E.C.

Project: DEC Elmont546; Site: E130150

**Report Number: 460-112069-1
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: 460-112069-1. Details are as follows: The client requested that ICVs be reported for SVOC analysis.

RECEIPT

The sample was received on 4/13/2016 4:20 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0° 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

Sample A3 (460-112069-1) was analyzed for Semivolatile organic compounds in accordance with EPA SW-846 Method 8270D. The samples were prepared and analyzed on 04/14/2016.

The continuing calibration verification (CCV) analyzed in batch 460-362392 was outside the method criteria for the following analyte(s): Bis(2-chloroethyl)ether, Indeno[1,2,3-cd]pyrene, 2,2'-oxybis[1-chloropropane], Hexachlorocyclopentadiene and Di-n-octyl phthalate. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Several analytes failed the recovery criteria low for the MS/MSD of sample A3MS (460-112069-1) in batch 460-362392. Caprolactam exceeded the RPD limit.

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

Method(s) 8270D: The initial calibration verification (ICV) result for batch 460-361914 was outside limits for Caprolactam. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analysis.

All other quality control parameters were within the acceptance limits.

METALS

Sample A3 (460-112069-1) was analyzed for Metals in accordance with EPA SW-846 Methods 6010C. The samples were prepared and analyzed on 04/14/2016.

Several analytes failed the recovery criteria low for the MS of sample A3MS (460-112069-1) in batch 460-362574. Aluminum failed the

recovery criteria high.

Refer to the QC report for details.

Sample A3 (460-112069-1)[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

Sample A3 (460-112069-1) was analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 04/13/2016.

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: 460-112069-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-112069-1	A3	Solid	04/13/16 12:10	04/13/16 16:20

Detection Summary

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

TestAmerica Job ID: 460-112069-1

Client Sample ID: A3

Lab Sample ID: 460-112069-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
2-Methylnaphthalene	26	J	370	8.1	ug/Kg	1	☼		8270D	Total/NA
4-Methylphenol	10	J	370	10	ug/Kg	1	☼		8270D	Total/NA
Acenaphthene	67	J	370	8.9	ug/Kg	1	☼		8270D	Total/NA
Acenaphthylene	37	J	370	9.4	ug/Kg	1	☼		8270D	Total/NA
Anthracene	200	J	370	35	ug/Kg	1	☼		8270D	Total/NA
Benzo[a]anthracene	680		37	31	ug/Kg	1	☼		8270D	Total/NA
Benzo[a]pyrene	700		37	11	ug/Kg	1	☼		8270D	Total/NA
Benzo[b]fluoranthene	900		37	14	ug/Kg	1	☼		8270D	Total/NA
Benzo[g,h,i]perylene	810		370	21	ug/Kg	1	☼		8270D	Total/NA
Benzo[k]fluoranthene	330		37	16	ug/Kg	1	☼		8270D	Total/NA
Carbazole	86	J	370	9.1	ug/Kg	1	☼		8270D	Total/NA
Chrysene	750		370	10	ug/Kg	1	☼		8270D	Total/NA
Dibenz(a,h)anthracene	190		37	19	ug/Kg	1	☼		8270D	Total/NA
Dibenzofuran	48	J	370	11	ug/Kg	1	☼		8270D	Total/NA
Fluoranthene	1400		370	11	ug/Kg	1	☼		8270D	Total/NA
Fluorene	65	J	370	8.0	ug/Kg	1	☼		8270D	Total/NA
Indeno[1,2,3-cd]pyrene	930		37	24	ug/Kg	1	☼		8270D	Total/NA
Isophorone	62	J	150	7.9	ug/Kg	1	☼		8270D	Total/NA
Naphthalene	54	J	370	9.3	ug/Kg	1	☼		8270D	Total/NA
Phenanthrene	1100		370	9.8	ug/Kg	1	☼		8270D	Total/NA
Pyrene	1200		370	17	ug/Kg	1	☼		8270D	Total/NA
Aluminum	5750		43.9	22.6	mg/Kg	4	☼		6010C	Total/NA
Antimony	1.8	J	4.4	1.7	mg/Kg	4	☼		6010C	Total/NA
Arsenic	2.5	J	3.3	1.1	mg/Kg	4	☼		6010C	Total/NA
Barium	213		43.9	1.6	mg/Kg	4	☼		6010C	Total/NA
Calcium	1430		1100	65.0	mg/Kg	4	☼		6010C	Total/NA
Chromium	12.5		2.2	1.1	mg/Kg	4	☼		6010C	Total/NA
Cobalt	3.6	J	11.0	1.3	mg/Kg	4	☼		6010C	Total/NA
Copper	94.7		5.5	1.4	mg/Kg	4	☼		6010C	Total/NA
Iron	12700		33.0	24.8	mg/Kg	4	☼		6010C	Total/NA
Lead	856		2.2	0.86	mg/Kg	4	☼		6010C	Total/NA
Magnesium	905	J	1100	54.8	mg/Kg	4	☼		6010C	Total/NA
Manganese	161		3.3	1.2	mg/Kg	4	☼		6010C	Total/NA
Nickel	13.9		8.8	1.6	mg/Kg	4	☼		6010C	Total/NA
Potassium	264	J	1100	33.3	mg/Kg	4	☼		6010C	Total/NA
Vanadium	15.1		11.0	1.1	mg/Kg	4	☼		6010C	Total/NA
Zinc	380		6.6	1.6	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: 460-112069-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL EDI
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 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: 460-112069-1

Client Sample ID: A3

Date Collected: 04/13/16 12:10

Date Received: 04/13/16 16:20

Lab Sample ID: 460-112069-1

Matrix: Solid

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	370	U	370	31	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
1,2,4,5-Tetrachlorobenzene	370	U	370	27	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
2,2'-oxybis[1-chloropropane]	370	U	370	15	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
2,3,4,6-Tetrachlorophenol	370	U	370	34	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
2,4,5-Trichlorophenol	370	U	370	36	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
2,4,6-Trichlorophenol	150	U	150	10	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
2,4-Dichlorophenol	150	U	150	8.6	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
2,4-Dimethylphenol	370	U	370	81	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
2,4-Dinitrophenol	290	U	290	280	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
2,4-Dinitrotoluene	74	U	74	15	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
2,6-Dinitrotoluene	74	U	74	20	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
2-Chloronaphthalene	370	U	370	8.3	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
2-Chlorophenol	370	U	370	9.3	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
2-Methylnaphthalene	26	J	370	8.1	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
2-Methylphenol	370	U	370	16	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
2-Nitroaniline	370	U	370	12	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
2-Nitrophenol	370	U	370	12	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
3,3'-Dichlorobenzidine	150	U	150	41	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
3-Nitroaniline	370	U	370	11	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
4,6-Dinitro-2-methylphenol	290	U	290	98	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
4-Bromophenyl phenyl ether	370	U	370	12	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
4-Chloro-3-methylphenol	370	U	370	16	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
4-Chloroaniline	370	U	370	9.4	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
4-Chlorophenyl phenyl ether	370	U	370	11	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
4-Methylphenol	10	J	370	10	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
4-Nitroaniline	370	U	370	14	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
4-Nitrophenol	740	U	740	180	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Acenaphthene	67	J	370	8.9	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Acenaphthylene	37	J	370	9.4	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Acetophenone	370	U	370	8.0	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Anthracene	200	J	370	35	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Atrazine	150	U	150	16	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Benzaldehyde	370	U	370	28	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Benzo[a]anthracene	680		37	31	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Benzo[a]pyrene	700		37	11	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Benzo[b]fluoranthene	900		37	14	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Benzo[g,h,i]perylene	810		370	21	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Benzo[k]fluoranthene	330		37	16	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Bis(2-chloroethoxy)methane	370	U	370	11	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Bis(2-chloroethyl)ether	37	U	37	8.6	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Bis(2-ethylhexyl) phthalate	370	U	370	14	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Butyl benzyl phthalate	370	U	370	11	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Caprolactam	370	U	370	26	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Carbazole	86	J	370	9.1	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Chrysene	750		370	10	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Dibenz(a,h)anthracene	190		37	19	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Dibenzofuran	48	J	370	11	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Diethyl phthalate	370	U	370	10	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Dimethyl phthalate	370	U	370	11	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1

TestAmerica Edison

Client Sample Results

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

TestAmerica Job ID: 460-112069-1

Client Sample ID: A3

Date Collected: 04/13/16 12:10

Date Received: 04/13/16 16:20

Lab Sample ID: 460-112069-1

Matrix: Solid

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	370	U	370	11	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Di-n-octyl phthalate	370	U	370	19	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Fluoranthene	1400		370	11	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Fluorene	65 J		370	8.0	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Hexachlorobenzene	37	U	37	15	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Hexachlorobutadiene	74	U	74	10	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Hexachlorocyclopentadiene	370	U	370	23	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Hexachloroethane	37	U	37	13	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Indeno[1,2,3-cd]pyrene	930		37	24	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Isophorone	62 J		150	7.9	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Naphthalene	54 J		370	9.3	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Nitrobenzene	37	U	37	12	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
N-Nitrosodi-n-propylamine	37	U	37	12	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
N-Nitrosodiphenylamine	370	U	370	33	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Pentachlorophenol	290	U	290	44	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Phenanthrene	1100		370	9.8	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Phenol	370	U	370	12	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1
Pyrene	1200		370	17	ug/Kg	☼	04/14/16 01:50	04/14/16 11:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	56		10 - 95	04/14/16 01:50	04/14/16 11:41	1
2-Fluorobiphenyl	70		27 - 84	04/14/16 01:50	04/14/16 11:41	1
2-Fluorophenol (Surr)	52		21 - 84	04/14/16 01:50	04/14/16 11:41	1
Nitrobenzene-d5 (Surr)	63		28 - 92	04/14/16 01:50	04/14/16 11:41	1
Phenol-d5 (Surr)	51		22 - 88	04/14/16 01:50	04/14/16 11:41	1
Terphenyl-d14 (Surr)	73		16 - 114	04/14/16 01:50	04/14/16 11:41	1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	5750		43.9	22.6	mg/Kg	☼	04/14/16 07:27	04/14/16 15:24	4
Antimony	1.8 J		4.4	1.7	mg/Kg	☼	04/14/16 07:27	04/14/16 15:24	4
Arsenic	2.5 J		3.3	1.1	mg/Kg	☼	04/14/16 07:27	04/14/16 15:24	4
Barium	213		43.9	1.6	mg/Kg	☼	04/14/16 07:27	04/14/16 15:24	4
Beryllium	0.44	U	0.44	0.37	mg/Kg	☼	04/14/16 07:27	04/14/16 15:24	4
Cadmium	0.88	U	0.88	0.46	mg/Kg	☼	04/14/16 07:27	04/14/16 15:24	4
Calcium	1430		1100	65.0	mg/Kg	☼	04/14/16 07:27	04/14/16 15:24	4
Chromium	12.5		2.2	1.1	mg/Kg	☼	04/14/16 07:27	04/14/16 15:24	4
Cobalt	3.6 J		11.0	1.3	mg/Kg	☼	04/14/16 07:27	04/14/16 15:24	4
Copper	94.7		5.5	1.4	mg/Kg	☼	04/14/16 07:27	04/14/16 15:24	4
Iron	12700		33.0	24.8	mg/Kg	☼	04/14/16 07:27	04/14/16 15:24	4
Lead	856		2.2	0.86	mg/Kg	☼	04/14/16 07:27	04/14/16 15:24	4
Magnesium	905 J		1100	54.8	mg/Kg	☼	04/14/16 07:27	04/14/16 15:24	4
Manganese	161		3.3	1.2	mg/Kg	☼	04/14/16 07:27	04/14/16 15:24	4
Nickel	13.9		8.8	1.6	mg/Kg	☼	04/14/16 07:27	04/14/16 15:24	4
Potassium	264 J		1100	33.3	mg/Kg	☼	04/14/16 07:27	04/14/16 15:24	4
Selenium	4.4	U	4.4	1.5	mg/Kg	☼	04/14/16 07:27	04/14/16 15:24	4
Silver	2.2	U	2.2	0.39	mg/Kg	☼	04/14/16 07:27	04/14/16 15:24	4
Sodium	1100	U	1100	74.4	mg/Kg	☼	04/14/16 07:27	04/14/16 15:24	4
Thallium	4.4	U	4.4	1.9	mg/Kg	☼	04/14/16 07:27	04/14/16 15:24	4
Vanadium	15.1		11.0	1.1	mg/Kg	☼	04/14/16 07:27	04/14/16 15:24	4

TestAmerica Edison

Client Sample Results

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

TestAmerica Job ID: 460-112069-1

Client Sample ID: A3

Date Collected: 04/13/16 12:10

Date Received: 04/13/16 16:20

Lab Sample ID: 460-112069-1

Matrix: Solid

Percent Solids: 90.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	380		6.6	1.6	mg/Kg	☼	04/14/16 07:27	04/14/16 15:24	4

Surrogate Summary

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

TestAmerica Job ID: 460-112069-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (10-95)	FBP (27-84)	2FP (21-84)	NBZ (28-92)	PHL (22-88)	TPH (16-114)
460-112069-1	A3	56	70	52	63	51	73
460-112069-1 MS	A3	57	73	55	65	54	70
460-112069-1 MSD	A3	59	75	54	65	51	66
LCS 460-362437/2-A	Lab Control Sample	82	77	66	70	66	90
LCS 460-362437/3-A	Lab Control Sample	74	73	68	71	66	88
MB 460-362437/1-A	Method Blank	78	69	65	68	67	87

Surrogate Legend

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

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPH = Terphenyl-d14 (Surr)

QC Sample Results

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

TestAmerica Job ID: 460-112069-1

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

Lab Sample ID: MB 460-362437/1-A

Matrix: Solid

Analysis Batch: 362392

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 362437

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1'-Biphenyl	330	U	330	28	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
1,2,4,5-Tetrachlorobenzene	330	U	330	25	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
2,2'-oxybis[1-chloropropane]	330	U	330	14	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
2,3,4,6-Tetrachlorophenol	330	U	330	31	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
2,4,5-Trichlorophenol	330	U	330	33	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
2,4,6-Trichlorophenol	130	U	130	9.4	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
2,4-Dichlorophenol	130	U	130	7.8	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
2,4-Dimethylphenol	330	U	330	73	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
2,4-Dinitrophenol	270	U	270	250	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
2,4-Dinitrotoluene	67	U	67	13	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
2,6-Dinitrotoluene	67	U	67	18	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
2-Chloronaphthalene	330	U	330	7.5	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
2-Chlorophenol	330	U	330	8.4	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
2-Methylnaphthalene	330	U	330	7.3	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
2-Methylphenol	330	U	330	14	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
2-Nitroaniline	330	U	330	11	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
2-Nitrophenol	330	U	330	11	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
3,3'-Dichlorobenzidine	130	U	130	37	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
3-Nitroaniline	330	U	330	9.8	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
4,6-Dinitro-2-methylphenol	270	U	270	88	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
4-Bromophenyl phenyl ether	330	U	330	10	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
4-Chloro-3-methylphenol	330	U	330	14	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
4-Chloroaniline	330	U	330	8.5	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
4-Chlorophenyl phenyl ether	330	U	330	9.9	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
4-Methylphenol	330	U	330	9.0	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
4-Nitroaniline	330	U	330	13	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
4-Nitrophenol	670	U	670	160	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Acenaphthene	330	U	330	8.0	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Acenaphthylene	330	U	330	8.5	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Acetophenone	330	U	330	7.2	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Anthracene	330	U	330	31	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Atrazine	130	U	130	15	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Benzaldehyde	330	U	330	25	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Benzo[a]anthracene	33	U	33	28	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Benzo[a]pyrene	33	U	33	10	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Benzo[b]fluoranthene	33	U	33	13	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Benzo[g,h,i]perylene	330	U	330	19	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Benzo[k]fluoranthene	33	U	33	14	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Bis(2-chloroethoxy)methane	330	U	330	10	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Bis(2-chloroethyl)ether	33	U	33	7.8	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Bis(2-ethylhexyl) phthalate	330	U	330	13	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Butyl benzyl phthalate	330	U	330	10	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Caprolactam	330	U	330	24	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Carbazole	330	U	330	8.2	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Chrysene	330	U	330	9.0	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Dibenz(a,h)anthracene	33	U	33	17	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Dibenzofuran	330	U	330	10	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Diethyl phthalate	330	U	330	9.4	ug/Kg		04/14/16 01:50	04/14/16 10:29	1

TestAmerica Edison

QC Sample Results

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

TestAmerica Job ID: 460-112069-1

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

Lab Sample ID: MB 460-362437/1-A

Matrix: Solid

Analysis Batch: 362392

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 362437

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	330	U	330	9.6	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Di-n-butyl phthalate	330	U	330	9.9	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Di-n-octyl phthalate	330	U	330	17	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Fluoranthene	330	U	330	9.8	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Fluorene	330	U	330	7.2	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Hexachlorobenzene	33	U	33	13	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Hexachlorobutadiene	67	U	67	9.3	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Hexachlorocyclopentadiene	330	U	330	21	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Hexachloroethane	33	U	33	12	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Indeno[1,2,3-cd]pyrene	33	U	33	22	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Isophorone	130	U	130	7.1	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Naphthalene	330	U	330	8.4	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Nitrobenzene	33	U	33	10	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
N-Nitrosodi-n-propylamine	33	U	33	11	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
N-Nitrosodiphenylamine	330	U	330	30	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Pentachlorophenol	270	U	270	40	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Phenanthrene	330	U	330	8.8	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Phenol	330	U	330	11	ug/Kg		04/14/16 01:50	04/14/16 10:29	1
Pyrene	330	U	330	15	ug/Kg		04/14/16 01:50	04/14/16 10:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		10 - 95	04/14/16 01:50	04/14/16 10:29	1
2-Fluorobiphenyl	69		27 - 84	04/14/16 01:50	04/14/16 10:29	1
2-Fluorophenol (Surr)	65		21 - 84	04/14/16 01:50	04/14/16 10:29	1
Nitrobenzene-d5 (Surr)	68		28 - 92	04/14/16 01:50	04/14/16 10:29	1
Phenol-d5 (Surr)	67		22 - 88	04/14/16 01:50	04/14/16 10:29	1
Terphenyl-d14 (Surr)	87		16 - 114	04/14/16 01:50	04/14/16 10:29	1

Lab Sample ID: LCS 460-362437/2-A

Matrix: Solid

Analysis Batch: 362392

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 362437

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	3330	2760		ug/Kg		83	64 - 103
1,2,4,5-Tetrachlorobenzene	3330	2680		ug/Kg		81	62 - 109
2,2'-oxybis[1-chloropropane]	3330	2070		ug/Kg		62	42 - 119
2,3,4,6-Tetrachlorophenol	3330	3030		ug/Kg		91	57 - 113
2,4,5-Trichlorophenol	3330	2760		ug/Kg		83	59 - 105
2,4,6-Trichlorophenol	3330	2900		ug/Kg		87	61 - 107
2,4-Dichlorophenol	3330	2610		ug/Kg		78	59 - 99
2,4-Dimethylphenol	3330	2620		ug/Kg		79	60 - 98
2,4-Dinitrophenol	6670	7270		ug/Kg		109	26 - 137
2,4-Dinitrotoluene	3330	3290		ug/Kg		99	61 - 118
2,6-Dinitrotoluene	3330	2980		ug/Kg		89	63 - 112
2-Chloronaphthalene	3330	2760		ug/Kg		83	63 - 102
2-Chlorophenol	3330	2550		ug/Kg		76	58 - 95
2-Methylnaphthalene	3330	2730		ug/Kg		82	64 - 102
2-Methylphenol	3330	2450		ug/Kg		74	56 - 99

TestAmerica Edison

QC Sample Results

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

TestAmerica Job ID: 460-112069-1

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

Lab Sample ID: LCS 460-362437/2-A

Matrix: Solid

Analysis Batch: 362392

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 362437

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Nitroaniline	3330	2730		ug/Kg		82	46 - 113
2-Nitrophenol	3330	2840		ug/Kg		85	63 - 103
3,3'-Dichlorobenzidine	3330	1860		ug/Kg		56	18 - 92
3-Nitroaniline	3330	2040		ug/Kg		61	23 - 89
4,6-Dinitro-2-methylphenol	6670	7020		ug/Kg		105	51 - 124
4-Bromophenyl phenyl ether	3330	2930		ug/Kg		88	65 - 114
4-Chloro-3-methylphenol	3330	2750		ug/Kg		82	58 - 108
4-Chloroaniline	3330	1970		ug/Kg		59	10 - 82
4-Chlorophenyl phenyl ether	3330	2870		ug/Kg		86	63 - 107
4-Methylphenol	3330	2820		ug/Kg		85	53 - 103
4-Nitroaniline	3330	2940		ug/Kg		88	44 - 109
4-Nitrophenol	6670	6280		ug/Kg		94	45 - 125
Acenaphthene	3330	2690		ug/Kg		81	59 - 102
Acenaphthylene	3330	2830		ug/Kg		85	63 - 102
Acetophenone	3330	2900		ug/Kg		87	56 - 107
Anthracene	3330	2990		ug/Kg		90	66 - 105
Benzo[a]anthracene	3330	3020		ug/Kg		91	65 - 106
Benzo[a]pyrene	3330	3400		ug/Kg		102	68 - 111
Benzo[b]fluoranthene	3330	3520		ug/Kg		106	67 - 116
Benzo[g,h,i]perylene	3330	2920		ug/Kg		88	49 - 124
Benzo[k]fluoranthene	3330	3110		ug/Kg		93	65 - 114
Bis(2-chloroethoxy)methane	3330	2450		ug/Kg		74	61 - 102
Bis(2-chloroethyl)ether	3330	2180		ug/Kg		65	58 - 102
Bis(2-ethylhexyl) phthalate	3330	3320		ug/Kg		99	60 - 125
Butyl benzyl phthalate	3330	3160		ug/Kg		95	62 - 123
Carbazole	3330	3020		ug/Kg		91	62 - 107
Chrysene	3330	2960		ug/Kg		89	64 - 105
Dibenz(a,h)anthracene	3330	3310		ug/Kg		99	54 - 126
Dibenzofuran	3330	2840		ug/Kg		85	62 - 102
Diethyl phthalate	3330	3070		ug/Kg		92	61 - 110
Dimethyl phthalate	3330	2980		ug/Kg		89	64 - 108
Di-n-butyl phthalate	3330	3210		ug/Kg		96	62 - 114
Di-n-octyl phthalate	3330	3690		ug/Kg		111	52 - 137
Fluoranthene	3330	3140		ug/Kg		94	59 - 109
Fluorene	3330	2940		ug/Kg		88	65 - 108
Hexachlorobenzene	3330	2940		ug/Kg		88	65 - 117
Hexachlorobutadiene	3330	2730		ug/Kg		82	60 - 105
Hexachlorocyclopentadiene	3330	2820		ug/Kg		85	37 - 119
Hexachloroethane	3330	2430		ug/Kg		73	60 - 94
Indeno[1,2,3-cd]pyrene	3330	3640		ug/Kg		109	50 - 134
Isophorone	3330	2440		ug/Kg		73	60 - 102
Naphthalene	3330	2750		ug/Kg		82	64 - 99
Nitrobenzene	3330	2520		ug/Kg		76	59 - 102
N-Nitrosodi-n-propylamine	3330	2520		ug/Kg		76	56 - 112
N-Nitrosodiphenylamine	3330	2870		ug/Kg		86	71 - 119
Pentachlorophenol	6670	6550		ug/Kg		98	47 - 115
Phenanthrene	3330	2900		ug/Kg		87	66 - 105
Phenol	3330	2460		ug/Kg		74	55 - 99

TestAmerica Edison

QC Sample Results

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

TestAmerica Job ID: 460-112069-1

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

Lab Sample ID: LCS 460-362437/2-A

Matrix: Solid

Analysis Batch: 362392

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 362437

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Pyrene	3330	2880		ug/Kg		86	55 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	82		10 - 95
2-Fluorobiphenyl	77		27 - 84
2-Fluorophenol (Surr)	66		21 - 84
Nitrobenzene-d5 (Surr)	70		28 - 92
Phenol-d5 (Surr)	66		22 - 88
Terphenyl-d14 (Surr)	90		16 - 114

Lab Sample ID: LCS 460-362437/3-A

Matrix: Solid

Analysis Batch: 362392

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 362437

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Atrazine	6670	7110		ug/Kg		107	41 - 116
Benzaldehyde	6670	4940		ug/Kg		74	55 - 116
Caprolactam	6670	7170		ug/Kg		108	44 - 129

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	74		10 - 95
2-Fluorobiphenyl	73		27 - 84
2-Fluorophenol (Surr)	68		21 - 84
Nitrobenzene-d5 (Surr)	71		28 - 92
Phenol-d5 (Surr)	66		22 - 88
Terphenyl-d14 (Surr)	88		16 - 114

Lab Sample ID: 460-112069-1 MS

Matrix: Solid

Analysis Batch: 362392

Client Sample ID: A3

Prep Type: Total/NA

Prep Batch: 362437

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1'-Biphenyl	370	U	3700	2930		ug/Kg	☼	79	64 - 103
1,2,4,5-Tetrachlorobenzene	370	U	3700	2780		ug/Kg	☼	75	62 - 109
2,2'-oxybis[1-chloropropane]	370	U	3700	2060		ug/Kg	☼	56	42 - 119
2,3,4,6-Tetrachlorophenol	370	U	3700	2590		ug/Kg	☼	70	57 - 113
2,4,5-Trichlorophenol	370	U	3700	2460		ug/Kg	☼	67	59 - 105
2,4,6-Trichlorophenol	150	U	3700	2790		ug/Kg	☼	76	61 - 107
2,4-Dichlorophenol	150	U	3700	2470		ug/Kg	☼	67	59 - 99
2,4-Dimethylphenol	370	U	3700	2500		ug/Kg	☼	68	60 - 98
2,4-Dinitrophenol	290	U	7390	5690		ug/Kg	☼	77	26 - 137
2,4-Dinitrotoluene	74	U	3700	3320		ug/Kg	☼	90	61 - 118
2,6-Dinitrotoluene	74	U	3700	3160		ug/Kg	☼	86	63 - 112
2-Chloronaphthalene	370	U	3700	2880		ug/Kg	☼	78	63 - 102
2-Chlorophenol	370	U	3700	2350		ug/Kg	☼	64	58 - 95
2-Methylnaphthalene	26	J	3700	2630		ug/Kg	☼	70	64 - 102
2-Methylphenol	370	U	3700	2280		ug/Kg	☼	62	56 - 99
2-Nitroaniline	370	U	3700	2990		ug/Kg	☼	81	46 - 113

TestAmerica Edison

QC Sample Results

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

TestAmerica Job ID: 460-112069-1

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

Lab Sample ID: 460-112069-1 MS

Matrix: Solid

Analysis Batch: 362392

Client Sample ID: A3

Prep Type: Total/NA

Prep Batch: 362437

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	Limits
2-Nitrophenol	370	U	3700	2870		ug/Kg	☀	78	63 - 103
3,3'-Dichlorobenzidine	150	U	3700	2780		ug/Kg	☀	75	18 - 92
3-Nitroaniline	370	U	3700	2380		ug/Kg	☀	64	23 - 89
4,6-Dinitro-2-methylphenol	290	U	7390	6250	*	ug/Kg	☀	85	51 - 124
4-Bromophenyl phenyl ether	370	U	3700	2940	*	ug/Kg	☀	79	65 - 114
4-Chloro-3-methylphenol	370	U	3700	2490		ug/Kg	☀	67	58 - 108
4-Chloroaniline	370	U	3700	1600		ug/Kg	☀	43	10 - 82
4-Chlorophenyl phenyl ether	370	U	3700	2880		ug/Kg	☀	78	63 - 107
4-Methylphenol	10	J	3700	2580		ug/Kg	☀	70	53 - 103
4-Nitroaniline	370	U	3700	3080		ug/Kg	☀	83	44 - 109
4-Nitrophenol	740	U	7390	5820		ug/Kg	☀	79	45 - 125
Acenaphthene	67	J	3700	2730		ug/Kg	☀	72	59 - 102
Acenaphthylene	37	J	3700	2880		ug/Kg	☀	77	63 - 102
Acetophenone	370	U	3700	2550		ug/Kg	☀	69	56 - 107
Anthracene	200	J	3700	2950	*	ug/Kg	☀	74	66 - 105
Atrazine	150	U	7390	7310	*	ug/Kg	☀	99	41 - 116
Benzaldehyde	370	U	7390	3000	*	ug/Kg	☀	41	55 - 116
Benzo[a]anthracene	680		3700	3270		ug/Kg	☀	70	65 - 106
Benzo[a]pyrene	700		3700	3550		ug/Kg	☀	77	68 - 111
Benzo[b]fluoranthene	900		3700	3290	*	ug/Kg	☀	65	67 - 116
Benzo[g,h,i]perylene	810		3700	4300		ug/Kg	☀	95	49 - 124
Benzo[k]fluoranthene	330		3700	2850		ug/Kg	☀	68	65 - 114
Bis(2-chloroethoxy)methane	370	U	3700	2610		ug/Kg	☀	71	61 - 102
Bis(2-chloroethyl)ether	37	U	3700	2200		ug/Kg	☀	60	58 - 102
Bis(2-ethylhexyl) phthalate	370	U	3700	3300		ug/Kg	☀	89	60 - 125
Butyl benzyl phthalate	370	U	3700	3340		ug/Kg	☀	90	62 - 123
Caprolactam	370	U	7390	5530		ug/Kg	☀	75	44 - 129
Carbazole	86	J	3700	2910	*	ug/Kg	☀	77	62 - 107
Chrysene	750		3700	3320		ug/Kg	☀	69	64 - 105
Dibenz(a,h)anthracene	190		3700	4540		ug/Kg	☀	118	54 - 126
Dibenzofuran	48	J	3700	2810		ug/Kg	☀	75	62 - 102
Diethyl phthalate	370	U	3700	3400		ug/Kg	☀	92	61 - 110
Dimethyl phthalate	370	U	3700	3320		ug/Kg	☀	90	64 - 108
Di-n-butyl phthalate	370	U	3700	3510	*	ug/Kg	☀	95	62 - 114
Di-n-octyl phthalate	370	U	3700	2580		ug/Kg	☀	70	52 - 137
Fluoranthene	1400		3700	3350	*	ug/Kg	☀	54	59 - 109
Fluorene	65	J	3700	2800		ug/Kg	☀	74	65 - 108
Hexachlorobenzene	37	U	3700	2740	*	ug/Kg	☀	74	65 - 117
Hexachlorobutadiene	74	U	3700	2700		ug/Kg	☀	73	60 - 105
Hexachlorocyclopentadiene	370	U	3700	2640		ug/Kg	☀	71	37 - 119
Hexachloroethane	37	U	3700	2380		ug/Kg	☀	64	60 - 94
Indeno[1,2,3-cd]pyrene	930		3700	5290		ug/Kg	☀	118	50 - 134
Isophorone	62	J	3700	2580		ug/Kg	☀	68	60 - 102
Naphthalene	54	J	3700	2740		ug/Kg	☀	73	64 - 99
Nitrobenzene	37	U	3700	2680		ug/Kg	☀	72	59 - 102
N-Nitrosodi-n-propylamine	37	U	3700	2400		ug/Kg	☀	65	56 - 112
N-Nitrosodiphenylamine	370	U	3700	3160	*	ug/Kg	☀	85	71 - 119
Pentachlorophenol	290	U	7390	5530	*	ug/Kg	☀	75	47 - 115

TestAmerica Edison

QC Sample Results

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

TestAmerica Job ID: 460-112069-1

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

Lab Sample ID: 460-112069-1 MS

Matrix: Solid

Analysis Batch: 362392

Client Sample ID: A3

Prep Type: Total/NA

Prep Batch: 362437

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenanthrene	1100		3700	3180	*	ug/Kg	☼	57	66 - 105
Phenol	370	U	3700	2320		ug/Kg	☼	63	55 - 99
Pyrene	1200		3700	2930	*	ug/Kg	☼	48	55 - 126
Surrogate	MS %Recovery	MS Qualifier	Limits						
2,4,6-Tribromophenol (Surr)	57		10 - 95						
2-Fluorobiphenyl	73		27 - 84						
2-Fluorophenol (Surr)	55		21 - 84						
Nitrobenzene-d5 (Surr)	65		28 - 92						
Phenol-d5 (Surr)	54		22 - 88						
Terphenyl-d14 (Surr)	70		16 - 114						

Lab Sample ID: 460-112069-1 MSD

Matrix: Solid

Analysis Batch: 362392

Client Sample ID: A3

Prep Type: Total/NA

Prep Batch: 362437

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1'-Biphenyl	370	U	3700	2920		ug/Kg	☼	79	64 - 103	0	30
1,2,4,5-Tetrachlorobenzene	370	U	3700	2800		ug/Kg	☼	76	62 - 109	1	30
2,2'-oxybis[1-chloropropane]	370	U	3700	1860		ug/Kg	☼	50	42 - 119	10	30
2,3,4,6-Tetrachlorophenol	370	U	3700	2550		ug/Kg	☼	69	57 - 113	1	30
2,4,5-Trichlorophenol	370	U	3700	2360		ug/Kg	☼	64	59 - 105	4	30
2,4,6-Trichlorophenol	150	U	3700	2770		ug/Kg	☼	75	61 - 107	1	30
2,4-Dichlorophenol	150	U	3700	2380		ug/Kg	☼	64	59 - 99	4	30
2,4-Dimethylphenol	370	U	3700	2460		ug/Kg	☼	67	60 - 98	1	30
2,4-Dinitrophenol	290	U	7390	5120		ug/Kg	☼	69	26 - 137	11	30
2,4-Dinitrotoluene	74	U	3700	3250		ug/Kg	☼	88	61 - 118	2	30
2,6-Dinitrotoluene	74	U	3700	3180		ug/Kg	☼	86	63 - 112	1	30
2-Chloronaphthalene	370	U	3700	2870		ug/Kg	☼	78	63 - 102	0	30
2-Chlorophenol	370	U	3700	2260		ug/Kg	☼	61	58 - 95	4	30
2-Methylnaphthalene	26	J	3700	2580		ug/Kg	☼	69	64 - 102	2	30
2-Methylphenol	370	U	3700	2160		ug/Kg	☼	58	56 - 99	6	30
2-Nitroaniline	370	U	3700	2880		ug/Kg	☼	78	46 - 113	4	30
2-Nitrophenol	370	U	3700	2860		ug/Kg	☼	77	63 - 103	1	30
3,3'-Dichlorobenzidine	150	U	3700	2800		ug/Kg	☼	76	18 - 92	1	30
3-Nitroaniline	370	U	3700	2370		ug/Kg	☼	64	23 - 89	0	30
4,6-Dinitro-2-methylphenol	290	U	7390	5770	*	ug/Kg	☼	78	51 - 124	8	30
4-Bromophenyl phenyl ether	370	U	3700	3020	*	ug/Kg	☼	82	65 - 114	3	30
4-Chloro-3-methylphenol	370	U	3700	2370		ug/Kg	☼	64	58 - 108	5	30
4-Chloroaniline	370	U	3700	1560		ug/Kg	☼	42	10 - 82	3	30
4-Chlorophenyl phenyl ether	370	U	3700	2820		ug/Kg	☼	76	63 - 107	2	30
4-Methylphenol	10	J	3700	2460		ug/Kg	☼	66	53 - 103	5	30
4-Nitroaniline	370	U	3700	2920		ug/Kg	☼	79	44 - 109	5	30
4-Nitrophenol	740	U	7390	5610		ug/Kg	☼	76	45 - 125	4	30
Acenaphthene	67	J	3700	2710		ug/Kg	☼	71	59 - 102	1	30
Acenaphthylene	37	J	3700	2860		ug/Kg	☼	76	63 - 102	1	30
Acetophenone	370	U	3700	2420		ug/Kg	☼	66	56 - 107	5	30
Anthracene	200	J	3700	2980	*	ug/Kg	☼	75	66 - 105	1	30

TestAmerica Edison

QC Sample Results

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

TestAmerica Job ID: 460-112069-1

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

Lab Sample ID: 460-112069-1 MSD

Matrix: Solid

Analysis Batch: 362392

Client Sample ID: A3

Prep Type: Total/NA

Prep Batch: 362437

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Atrazine	150	U	7390	7390	*	ug/Kg	☀	100	41 - 116	1	30
Benzaldehyde	370	U	7390	2930	*	ug/Kg	☀	40	55 - 116	2	30
Benzo[a]anthracene	680		3700	3340		ug/Kg	☀	72	65 - 106	2	30
Benzo[a]pyrene	700		3700	3700		ug/Kg	☀	81	68 - 111	4	30
Benzo[b]fluoranthene	900		3700	3320	*	ug/Kg	☀	66	67 - 116	1	30
Benzo[g,h,i]perylene	810		3700	4070		ug/Kg	☀	88	49 - 124	6	30
Benzo[k]fluoranthene	330		3700	3000		ug/Kg	☀	72	65 - 114	5	30
Bis(2-chloroethoxy)methane	370	U	3700	2580		ug/Kg	☀	70	61 - 102	1	30
Bis(2-chloroethyl)ether	37	U	3700	2090	*	ug/Kg	☀	56	58 - 102	5	30
Bis(2-ethylhexyl) phthalate	370	U	3700	3130		ug/Kg	☀	85	60 - 125	5	30
Butyl benzyl phthalate	370	U	3700	3130		ug/Kg	☀	85	62 - 123	6	30
Caprolactam	370	U	7390	654	*	ug/Kg	☀	9	44 - 129	158	30
Carbazole	86	J	3700	2980	*	ug/Kg	☀	78	62 - 107	2	30
Chrysene	750		3700	3350		ug/Kg	☀	70	64 - 105	1	30
Dibenz(a,h)anthracene	190		3700	4410		ug/Kg	☀	114	54 - 126	3	30
Dibenzofuran	48	J	3700	2790		ug/Kg	☀	74	62 - 102	1	30
Diethyl phthalate	370	U	3700	3440		ug/Kg	☀	93	61 - 110	1	30
Dimethyl phthalate	370	U	3700	3350		ug/Kg	☀	91	64 - 108	1	30
Di-n-butyl phthalate	370	U	3700	3500	*	ug/Kg	☀	95	62 - 114	0	30
Di-n-octyl phthalate	370	U	3700	2370		ug/Kg	☀	64	52 - 137	8	30
Fluoranthene	1400		3700	3520	*	ug/Kg	☀	58	59 - 109	5	30
Fluorene	65	J	3700	2810		ug/Kg	☀	74	65 - 108	0	30
Hexachlorobenzene	37	U	3700	2700	*	ug/Kg	☀	73	65 - 117	1	30
Hexachlorobutadiene	74	U	3700	2740		ug/Kg	☀	74	60 - 105	1	30
Hexachlorocyclopentadiene	370	U	3700	2530		ug/Kg	☀	68	37 - 119	4	30
Hexachloroethane	37	U	3700	2230		ug/Kg	☀	60	60 - 94	6	30
Indeno[1,2,3-cd]pyrene	930		3700	4990		ug/Kg	☀	110	50 - 134	6	30
Isophorone	62	J	3700	2510		ug/Kg	☀	66	60 - 102	2	30
Naphthalene	54	J	3700	2750		ug/Kg	☀	73	64 - 99	0	30
Nitrobenzene	37	U	3700	2590		ug/Kg	☀	70	59 - 102	3	30
N-Nitrosodi-n-propylamine	37	U	3700	2280		ug/Kg	☀	62	56 - 112	5	30
N-Nitrosodiphenylamine	370	U	3700	3200	*	ug/Kg	☀	87	71 - 119	1	30
Pentachlorophenol	290	U	7390	5430	*	ug/Kg	☀	73	47 - 115	2	30
Phenanthrene	1100		3700	3360	*	ug/Kg	☀	62	66 - 105	6	30
Phenol	370	U	3700	2130		ug/Kg	☀	58	55 - 99	8	30
Pyrene	1200		3700	2910	*	ug/Kg	☀	47	55 - 126	1	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	59		10 - 95
2-Fluorobiphenyl	75		27 - 84
2-Fluorophenol (Surr)	54		21 - 84
Nitrobenzene-d5 (Surr)	65		28 - 92
Phenol-d5 (Surr)	51		22 - 88
Terphenyl-d14 (Surr)	66		16 - 114

QC Sample Results

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

TestAmerica Job ID: 460-112069-1

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 460-362460/1-A
Matrix: Solid
Analysis Batch: 362574

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 362460

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	20.0	U	20.0	10.3	mg/Kg		04/14/16 07:27	04/14/16 15:12	2
Antimony	2.0	U	2.0	0.79	mg/Kg		04/14/16 07:27	04/14/16 15:12	2
Arsenic	1.5	U	1.5	0.49	mg/Kg		04/14/16 07:27	04/14/16 15:12	2
Barium	20.0	U	20.0	0.72	mg/Kg		04/14/16 07:27	04/14/16 15:12	2
Beryllium	0.20	U	0.20	0.17	mg/Kg		04/14/16 07:27	04/14/16 15:12	2
Cadmium	0.40	U	0.40	0.21	mg/Kg		04/14/16 07:27	04/14/16 15:12	2
Calcium	500	U	500	29.6	mg/Kg		04/14/16 07:27	04/14/16 15:12	2
Chromium	1.0	U	1.0	0.48	mg/Kg		04/14/16 07:27	04/14/16 15:12	2
Cobalt	5.0	U	5.0	0.58	mg/Kg		04/14/16 07:27	04/14/16 15:12	2
Copper	2.5	U	2.5	0.65	mg/Kg		04/14/16 07:27	04/14/16 15:12	2
Iron	15.0	U	15.0	11.3	mg/Kg		04/14/16 07:27	04/14/16 15:12	2
Lead	1.0	U	1.0	0.39	mg/Kg		04/14/16 07:27	04/14/16 15:12	2
Magnesium	500	U	500	25.0	mg/Kg		04/14/16 07:27	04/14/16 15:12	2
Manganese	1.5	U	1.5	0.53	mg/Kg		04/14/16 07:27	04/14/16 15:12	2
Nickel	4.0	U	4.0	0.73	mg/Kg		04/14/16 07:27	04/14/16 15:12	2
Potassium	500	U	500	15.2	mg/Kg		04/14/16 07:27	04/14/16 15:12	2
Selenium	2.0	U	2.0	0.69	mg/Kg		04/14/16 07:27	04/14/16 15:12	2
Silver	1.0	U	1.0	0.18	mg/Kg		04/14/16 07:27	04/14/16 15:12	2
Sodium	500	U	500	33.9	mg/Kg		04/14/16 07:27	04/14/16 15:12	2
Thallium	2.0	U	2.0	0.89	mg/Kg		04/14/16 07:27	04/14/16 15:12	2
Vanadium	5.0	U	5.0	0.50	mg/Kg		04/14/16 07:27	04/14/16 15:12	2
Zinc	3.0	U	3.0	0.73	mg/Kg		04/14/16 07:27	04/14/16 15:12	2

Lab Sample ID: LCSSRM 460-362460/2-A
Matrix: Solid
Analysis Batch: 362574

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 362460

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	8080	6573		mg/Kg		81.3	51.1 - 148.5
Antimony	123	77.96		mg/Kg		63.4	1.0 - 200.0
Arsenic	145	132.3		mg/Kg		91.2	79.3 - 121.4
Barium	209	203.7		mg/Kg		97.5	83.3 - 117.2
Beryllium	97.3	91.39		mg/Kg		93.9	82.6 - 117.2
Cadmium	87.6	86.86		mg/Kg		99.2	82.6 - 117.6
Calcium	5690	5396		mg/Kg		94.8	81.0 - 118.8
Chromium	143	142.7		mg/Kg		99.8	79.7 - 119.6
Cobalt	154	162.5		mg/Kg		105.5	83.8 - 115.6
Copper	173	164.0		mg/Kg		94.8	81.5 - 117.9
Iron	15000	13250		mg/Kg		88.4	46.8 - 154.0

TestAmerica Edison

QC Sample Results

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

TestAmerica Job ID: 460-112069-1

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

Lab Sample ID: LCSSRM 460-362460/2-A

Matrix: Solid

Analysis Batch: 362574

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 362460

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	146	143.1		mg/Kg		98.0	81.5 - 118.5
Magnesium	2640	2269		mg/Kg		85.9	76.5 - 123.5
Manganese	309	301.8		mg/Kg		97.7	81.6 - 118.8
Nickel	129	140.4		mg/Kg		108.9	82.9 - 117.1
Potassium	2400	2065		mg/Kg		86.0	71.7 - 128.3
Selenium	178	169.2		mg/Kg		95.1	78.7 - 121.3
Silver	31.3	27.90		mg/Kg		89.1	75.1 - 124.9
Sodium	869	772.7	J	mg/Kg		88.9	72.7 - 126.6
Thallium	141	149.2		mg/Kg		105.8	79.4 - 121.3
Vanadium	115	107.6		mg/Kg		93.6	77.6 - 122.6
Zinc	194	190.2		mg/Kg		98.0	82.0 - 118.0

Lab Sample ID: 460-112069-1 MS

Matrix: Solid

Analysis Batch: 362574

Client Sample ID: A3

Prep Type: Total/NA

Prep Batch: 362460

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	5750		207	6098	4	mg/Kg	☀	169	75 - 125
Antimony	1.8	J	51.8	38.76	N	mg/Kg	☀	71	75 - 125
Arsenic	2.5	J	207	202.9		mg/Kg	☀	97	75 - 125
Barium	213		207	365.0	N	mg/Kg	☀	73	75 - 125
Beryllium	0.44	U	5.18	5.44		mg/Kg	☀	105	75 - 125
Cadmium	0.88	U	5.18	5.63		mg/Kg	☀	109	75 - 125
Calcium	1430		2070	3357		mg/Kg	☀	93	75 - 125
Chromium	12.5		20.7	34.86		mg/Kg	☀	108	75 - 125
Cobalt	3.6	J	51.8	57.36		mg/Kg	☀	104	75 - 125
Copper	94.7		25.9	98.83	N	mg/Kg	☀	16	75 - 125
Iron	12700		104	10600	4	mg/Kg	☀	-2057	75 - 125
Lead	856		51.8	674.5	4	mg/Kg	☀	-350	75 - 125
Magnesium	905	J	2070	2777		mg/Kg	☀	90	75 - 125
Manganese	161		51.8	192.4	N	mg/Kg	☀	60	75 - 125
Nickel	13.9		51.8	69.18		mg/Kg	☀	107	75 - 125
Potassium	264	J	2070	2138		mg/Kg	☀	90	75 - 125
Selenium	4.4	U	207	205.3		mg/Kg	☀	99	75 - 125
Silver	2.2	U	5.18	5.06		mg/Kg	☀	98	75 - 125
Sodium	1100	U	2070	1941		mg/Kg	☀	94	75 - 125
Thallium	4.4	U	207	223.7		mg/Kg	☀	108	75 - 125
Vanadium	15.1		51.8	67.95		mg/Kg	☀	102	75 - 125
Zinc	380		51.8	365.8	4	mg/Kg	☀	-28	75 - 125

TestAmerica Edison

QC Sample Results

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

TestAmerica Job ID: 460-112069-1

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

Lab Sample ID: 460-112069-1 DU

Matrix: Solid

Analysis Batch: 362574

Client Sample ID: A3

Prep Type: Total/NA

Prep Batch: 362460

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Aluminum	5750		5460		mg/Kg	☼	5	20
Antimony	1.8	J	1.75	J	mg/Kg	☼	0.5	20
Arsenic	2.5	J	2.27	J	mg/Kg	☼	8	20
Barium	213		200.1		mg/Kg	☼	6	20
Beryllium	0.44	U	0.41	U	mg/Kg	☼	NC	20
Cadmium	0.88	U	0.83	U	mg/Kg	☼	NC	20
Calcium	1430		1332		mg/Kg	☼	7	20
Chromium	12.5		11.91		mg/Kg	☼	5	20
Cobalt	3.6	J	3.42	J	mg/Kg	☼	6	20
Copper	94.7		89.25		mg/Kg	☼	6	20
Iron	12700		11990		mg/Kg	☼	6	20
Lead	856		805.0		mg/Kg	☼	6	20
Magnesium	905	J	847.1	J	mg/Kg	☼	7	20
Manganese	161		151.1		mg/Kg	☼	6	20
Nickel	13.9		13.12		mg/Kg	☼	6	20
Potassium	264	J	250.7	J	mg/Kg	☼	5	20
Selenium	4.4	U	1.69	J	mg/Kg	☼	NC	20
Silver	2.2	U	2.1	U	mg/Kg	☼	NC	20
Sodium	1100	U	1040	U	mg/Kg	☼	NC	20
Thallium	4.4	U	4.1	U	mg/Kg	☼	NC	20
Vanadium	15.1		14.24		mg/Kg	☼	6	20
Zinc	380		357.3		mg/Kg	☼	6	20

Definitions/Glossary

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

TestAmerica Job ID: 460-112069-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
J	Indicates an estimated value.
*	ISTD response or retention time outside acceptable limits
*	MS or MSD is outside acceptance limits.
*	Duplicate RPD exceeds control limits

Metals

Qualifier	Qualifier Description
J	Sample result is greater than the MDL but below the CRDL
U	Indicates analyzed for but not detected.
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.
N	PDS exceeds 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: 460-112069-1

GC/MS Semi VOA

Analysis Batch: 362392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-112069-1	A3	Total/NA	Solid	8270D	362437
460-112069-1 MS	A3	Total/NA	Solid	8270D	362437
460-112069-1 MSD	A3	Total/NA	Solid	8270D	362437
LCS 460-362437/2-A	Lab Control Sample	Total/NA	Solid	8270D	362437
LCS 460-362437/3-A	Lab Control Sample	Total/NA	Solid	8270D	362437
MB 460-362437/1-A	Method Blank	Total/NA	Solid	8270D	362437

Prep Batch: 362437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-112069-1	A3	Total/NA	Solid	3546	
460-112069-1 MS	A3	Total/NA	Solid	3546	
460-112069-1 MSD	A3	Total/NA	Solid	3546	
LCS 460-362437/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCS 460-362437/3-A	Lab Control Sample	Total/NA	Solid	3546	
MB 460-362437/1-A	Method Blank	Total/NA	Solid	3546	

Metals

Prep Batch: 362460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-112069-1	A3	Total/NA	Solid	3050B	
460-112069-1 DU	A3	Total/NA	Solid	3050B	
460-112069-1 MS	A3	Total/NA	Solid	3050B	
460-112069-1 PDS	A3	Total/NA	Solid	3050B	
460-112069-1 SD	A3	Total/NA	Solid	3050B	
LCSSRM 460-362460/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 460-362460/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 362574

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-112069-1	A3	Total/NA	Solid	6010C	362460
460-112069-1 DU	A3	Total/NA	Solid	6010C	362460
460-112069-1 MS	A3	Total/NA	Solid	6010C	362460
460-112069-1 PDS	A3	Total/NA	Solid	6010C	362460
460-112069-1 SD	A3	Total/NA	Solid	6010C	362460
ICSA 460-362574/10	ICS		Solid	6010C	
ICSAB 460-362574/11	ICS		Solid	6010C	
LCSSRM 460-362460/2-A	Lab Control Sample	Total/NA	Solid	6010C	362460
MB 460-362460/1-A	Method Blank	Total/NA	Solid	6010C	362460

General Chemistry

Analysis Batch: 362364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-111927-A-23 DU	Duplicate	Total/NA	Solid	Moisture	
460-112069-1	A3	Total/NA	Solid	Moisture	
460-112071-A-3 MS	Matrix Spike	Total/NA	Solid	Moisture	
460-112071-A-3 MSD	Matrix Spike Duplicate	Total/NA	Solid	Moisture	

Lab Chronicle

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

TestAmerica Job ID: 460-112069-1

Client Sample ID: A3

Date Collected: 04/13/16 12:10

Date Received: 04/13/16 16:20

Lab Sample ID: 460-112069-1

Matrix: Solid

Percent Solids: 90.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			362437	04/14/16 01:50	JMS	TAL EDI
Total/NA	Analysis	8270D		1	362392	04/14/16 11:41	BAW	TAL EDI
Total/NA	Prep	3050B			362460	04/14/16 07:27	MDC	TAL EDI
Total/NA	Analysis	6010C		4	362574	04/14/16 15:24	YZH	TAL EDI
Total/NA	Analysis	Moisture		1	362364	04/13/16 22:00	CJA	TAL EDI

Laboratory References:

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: 460-112069-1

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	

8270D

Semivolatile Organic Compounds
(GC/MS)

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-112069-1
 SDG No.: _____
 Matrix: Solid Level: Low
 GC Column (1): Rtxi-5Sil M ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	2FP #	PHL #	NBZ #	FBP #	TBP #	TPH #
A3	460-112069-1	52	51	63	70	56	73
	MB 460-362437/1-A	65	67	68	69	78	87
	LCS 460-362437/2-A	66	66	70	77	82	90
	LCS 460-362437/3-A	68	66	71	73	74	88
A3 MS	460-112069-1 MS	55	54	65	73	57	70
A3 MSD	460-112069-1 MSD	54	51	65	75	59	66

	QC LIMITS
2FP = 2-Fluorophenol (Surr)	21-84
PHL = Phenol-d5 (Surr)	22-88
NBZ = Nitrobenzene-d5 (Surr)	28-92
FBP = 2-Fluorobiphenyl	27-84
TBP = 2,4,6-Tribromophenol (Surr)	10-95
TPH = Terphenyl-d14 (Surr)	16-114

Column to be used to flag recovery values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-112069-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: x12826.D
 Lab ID: LCS 460-362437/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1'-Biphenyl	3330	2760	83	64-103	
1,2,4,5-Tetrachlorobenzene	3330	2680	81	62-109	
2,2'-oxybis[1-chloropropane]	3330	2070	62	42-119	
2,3,4,6-Tetrachlorophenol	3330	3030	91	57-113	
2,4,5-Trichlorophenol	3330	2760	83	59-105	
2,4,6-Trichlorophenol	3330	2900	87	61-107	
2,4-Dichlorophenol	3330	2610	78	59-99	
2,4-Dimethylphenol	3330	2620	79	60-98	
2,4-Dinitrophenol	6670	7270	109	26-137	
2,4-Dinitrotoluene	3330	3290	99	61-118	
2,6-Dinitrotoluene	3330	2980	89	63-112	
2-Chloronaphthalene	3330	2760	83	63-102	
2-Chlorophenol	3330	2550	76	58-95	
2-Methylnaphthalene	3330	2730	82	64-102	
2-Methylphenol	3330	2450	74	56-99	
2-Nitroaniline	3330	2730	82	46-113	
2-Nitrophenol	3330	2840	85	63-103	
3,3'-Dichlorobenzidine	3330	1860	56	18-92	
3-Nitroaniline	3330	2040	61	23-89	
4,6-Dinitro-2-methylphenol	6670	7020	105	51-124	
4-Bromophenyl phenyl ether	3330	2930	88	65-114	
4-Chloro-3-methylphenol	3330	2750	82	58-108	
4-Chloroaniline	3330	1970	59	10-82	
4-Chlorophenyl phenyl ether	3330	2870	86	63-107	
4-Methylphenol	3330	2820	85	53-103	
4-Nitroaniline	3330	2940	88	44-109	
4-Nitrophenol	6670	6280	94	45-125	
Acenaphthene	3330	2690	81	59-102	
Acenaphthylene	3330	2830	85	63-102	
Acetophenone	3330	2900	87	56-107	
Anthracene	3330	2990	90	66-105	
Benzo[a]anthracene	3330	3020	91	65-106	
Benzo[a]pyrene	3330	3400	102	68-111	
Benzo[b]fluoranthene	3330	3520	106	67-116	
Benzo[g,h,i]perylene	3330	2920	88	49-124	
Benzo[k]fluoranthene	3330	3110	93	65-114	
Bis(2-chloroethoxy)methane	3330	2450	74	61-102	
Bis(2-chloroethyl)ether	3330	2180	65	58-102	
Bis(2-ethylhexyl) phthalate	3330	3320	99	60-125	
Butyl benzyl phthalate	3330	3160	95	62-123	
Carbazole	3330	3020	91	62-107	
Chrysene	3330	2960	89	64-105	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-112069-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: x12826.D
 Lab ID: LCS 460-362437/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Dibenz (a,h) anthracene	3330	3310	99	54-126	
Dibenzofuran	3330	2840	85	62-102	
Diethyl phthalate	3330	3070	92	61-110	
Dimethyl phthalate	3330	2980	89	64-108	
Di-n-butyl phthalate	3330	3210	96	62-114	
Di-n-octyl phthalate	3330	3690	111	52-137	
Fluoranthene	3330	3140	94	59-109	
Fluorene	3330	2940	88	65-108	
Hexachlorobenzene	3330	2940	88	65-117	
Hexachlorobutadiene	3330	2730	82	60-105	
Hexachlorocyclopentadiene	3330	2820	85	37-119	
Hexachloroethane	3330	2430	73	60-94	
Indeno[1,2,3-cd]pyrene	3330	3640	109	50-134	
Isophorone	3330	2440	73	60-102	
Naphthalene	3330	2750	82	64-99	
Nitrobenzene	3330	2520	76	59-102	
N-Nitrosodi-n-propylamine	3330	2520	76	56-112	
N-Nitrosodiphenylamine	3330	2870	86	71-119	
Pentachlorophenol	6670	6550	98	47-115	
Phenanthrene	3330	2900	87	66-105	
Phenol	3330	2460	74	55-99	
Pyrene	3330	2880	86	55-126	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-112069-1
SDG No.: _____
Matrix: Solid Level: Low Lab File ID: x12827.D
Lab ID: LCS 460-362437/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Atrazine	6670	7110	107	41-116	
Benzaldehyde	6670	4940	74	55-116	
Caprolactam	6670	7170	108	44-129	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison

Job No.: 460-112069-1

SDG No.: _____

Matrix: Solid

Level: Low

Lab File ID: x12829.D

Lab ID: 460-112069-1 MS

Client ID: A3 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1'-Biphenyl	3700	370 U	2930	79	64-103	
1,2,4,5-Tetrachlorobenzene	3700	370 U	2780	75	62-109	
2,2'-oxybis[1-chloropropane]	3700	370 U	2060	56	42-119	
2,3,4,6-Tetrachlorophenol	3700	370 U	2590	70	57-113	
2,4,5-Trichlorophenol	3700	370 U	2460	67	59-105	
2,4,6-Trichlorophenol	3700	150 U	2790	76	61-107	
2,4-Dichlorophenol	3700	150 U	2470	67	59-99	
2,4-Dimethylphenol	3700	370 U	2500	68	60-98	
2,4-Dinitrophenol	7390	290 U	5690	77	26-137	
2,4-Dinitrotoluene	3700	74 U	3320	90	61-118	
2,6-Dinitrotoluene	3700	74 U	3160	86	63-112	
2-Chloronaphthalene	3700	370 U	2880	78	63-102	
2-Chlorophenol	3700	370 U	2350	64	58-95	
2-Methylnaphthalene	3700	26 J	2630	70	64-102	
2-Methylphenol	3700	370 U	2280	62	56-99	
2-Nitroaniline	3700	370 U	2990	81	46-113	
2-Nitrophenol	3700	370 U	2870	78	63-103	
3,3'-Dichlorobenzidine	3700	150 U	2780	75	18-92	
3-Nitroaniline	3700	370 U	2380	64	23-89	
4,6-Dinitro-2-methylphenol	7390	290 U	6250	85	51-124	*
4-Bromophenyl phenyl ether	3700	370 U	2940	79	65-114	*
4-Chloro-3-methylphenol	3700	370 U	2490	67	58-108	
4-Chloroaniline	3700	370 U	1600	43	10-82	
4-Chlorophenyl phenyl ether	3700	370 U	2880	78	63-107	
4-Methylphenol	3700	10 J	2580	70	53-103	
4-Nitroaniline	3700	370 U	3080	83	44-109	
4-Nitrophenol	7390	740 U	5820	79	45-125	
Acenaphthene	3700	67 J	2730	72	59-102	
Acenaphthylene	3700	37 J	2880	77	63-102	
Acetophenone	3700	370 U	2550	69	56-107	
Anthracene	3700	200 J	2950	74	66-105	*
Atrazine	7390	150 U	7310	99	41-116	*
Benzaldehyde	7390	370 U	3000	41	55-116	*
Benzo[a]anthracene	3700	680	3270	70	65-106	
Benzo[a]pyrene	3700	700	3550	77	68-111	
Benzo[b]fluoranthene	3700	900	3290	65	67-116	*
Benzo[g,h,i]perylene	3700	810	4300	95	49-124	
Benzo[k]fluoranthene	3700	330	2850	68	65-114	
Bis(2-chloroethoxy)methane	3700	370 U	2610	71	61-102	
Bis(2-chloroethyl)ether	3700	37 U	2200	60	58-102	
Bis(2-ethylhexyl) phthalate	3700	370 U	3300	89	60-125	
Butyl benzyl phthalate	3700	370 U	3340	90	62-123	

Column to be used to flag recovery and RPD values

FORM III 8270D

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-112069-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: x12829.D
 Lab ID: 460-112069-1 MS Client ID: A3 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Caprolactam	7390	370 U	5530	75	44-129	
Carbazole	3700	86 J	2910	77	62-107	*
Chrysene	3700	750	3320	69	64-105	
Dibenz (a,h) anthracene	3700	190	4540	118	54-126	
Dibenzofuran	3700	48 J	2810	75	62-102	
Diethyl phthalate	3700	370 U	3400	92	61-110	
Dimethyl phthalate	3700	370 U	3320	90	64-108	
Di-n-butyl phthalate	3700	370 U	3510	95	62-114	*
Di-n-octyl phthalate	3700	370 U	2580	70	52-137	
Fluoranthene	3700	1400	3350	54	59-109	*
Fluorene	3700	65 J	2800	74	65-108	
Hexachlorobenzene	3700	37 U	2740	74	65-117	*
Hexachlorobutadiene	3700	74 U	2700	73	60-105	
Hexachlorocyclopentadiene	3700	370 U	2640	71	37-119	
Hexachloroethane	3700	37 U	2380	64	60-94	
Indeno[1,2,3-cd]pyrene	3700	930	5290	118	50-134	
Isophorone	3700	62 J	2580	68	60-102	
Naphthalene	3700	54 J	2740	73	64-99	
Nitrobenzene	3700	37 U	2680	72	59-102	
N-Nitrosodi-n-propylamine	3700	37 U	2400	65	56-112	
N-Nitrosodiphenylamine	3700	370 U	3160	85	71-119	*
Pentachlorophenol	7390	290 U	5530	75	47-115	*
Phenanthrene	3700	1100	3180	57	66-105	*
Phenol	3700	370 U	2320	63	55-99	
Pyrene	3700	1200	2930	48	55-126	*

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison

Job No.: 460-112069-1

SDG No.: _____

Matrix: Solid

Level: Low

Lab File ID: x12830.D

Lab ID: 460-112069-1 MSD

Client ID: A3 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1'-Biphenyl	3700	2920	79	0	30	64-103	
1,2,4,5-Tetrachlorobenzene	3700	2800	76	1	30	62-109	
2,2'-oxybis[1-chloropropane]	3700	1860	50	10	30	42-119	
2,3,4,6-Tetrachlorophenol	3700	2550	69	1	30	57-113	
2,4,5-Trichlorophenol	3700	2360	64	4	30	59-105	
2,4,6-Trichlorophenol	3700	2770	75	1	30	61-107	
2,4-Dichlorophenol	3700	2380	64	4	30	59-99	
2,4-Dimethylphenol	3700	2460	67	1	30	60-98	
2,4-Dinitrophenol	7390	5120	69	11	30	26-137	
2,4-Dinitrotoluene	3700	3250	88	2	30	61-118	
2,6-Dinitrotoluene	3700	3180	86	1	30	63-112	
2-Chloronaphthalene	3700	2870	78	0	30	63-102	
2-Chlorophenol	3700	2260	61	4	30	58-95	
2-Methylnaphthalene	3700	2580	69	2	30	64-102	
2-Methylphenol	3700	2160	58	6	30	56-99	
2-Nitroaniline	3700	2880	78	4	30	46-113	
2-Nitrophenol	3700	2860	77	1	30	63-103	
3,3'-Dichlorobenzidine	3700	2800	76	1	30	18-92	
3-Nitroaniline	3700	2370	64	0	30	23-89	
4,6-Dinitro-2-methylphenol	7390	5770	78	8	30	51-124	*
4-Bromophenyl phenyl ether	3700	3020	82	3	30	65-114	*
4-Chloro-3-methylphenol	3700	2370	64	5	30	58-108	
4-Chloroaniline	3700	1560	42	3	30	10-82	
4-Chlorophenyl phenyl ether	3700	2820	76	2	30	63-107	
4-Methylphenol	3700	2460	66	5	30	53-103	
4-Nitroaniline	3700	2920	79	5	30	44-109	
4-Nitrophenol	7390	5610	76	4	30	45-125	
Acenaphthene	3700	2710	71	1	30	59-102	
Acenaphthylene	3700	2860	76	1	30	63-102	
Acetophenone	3700	2420	66	5	30	56-107	
Anthracene	3700	2980	75	1	30	66-105	*
Atrazine	7390	7390	100	1	30	41-116	*
Benzaldehyde	7390	2930	40	2	30	55-116	*
Benzo[a]anthracene	3700	3340	72	2	30	65-106	
Benzo[a]pyrene	3700	3700	81	4	30	68-111	
Benzo[b]fluoranthene	3700	3320	66	1	30	67-116	*
Benzo[g,h,i]perylene	3700	4070	88	6	30	49-124	
Benzo[k]fluoranthene	3700	3000	72	5	30	65-114	
Bis(2-chloroethoxy)methane	3700	2580	70	1	30	61-102	
Bis(2-chloroethyl)ether	3700	2090	56	5	30	58-102	*
Bis(2-ethylhexyl) phthalate	3700	3130	85	5	30	60-125	
Butyl benzyl phthalate	3700	3130	85	6	30	62-123	

Column to be used to flag recovery and RPD values

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-112069-1
 SDG No.: _____
 Matrix: Solid Level: Low Lab File ID: x12830.D
 Lab ID: 460-112069-1 MSD Client ID: A3 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Caprolactam	7390	654	9	158	30	44-129	*
Carbazole	3700	2980	78	2	30	62-107	*
Chrysene	3700	3350	70	1	30	64-105	
Dibenz (a,h) anthracene	3700	4410	114	3	30	54-126	
Dibenzofuran	3700	2790	74	1	30	62-102	
Diethyl phthalate	3700	3440	93	1	30	61-110	
Dimethyl phthalate	3700	3350	91	1	30	64-108	
Di-n-butyl phthalate	3700	3500	95	0	30	62-114	*
Di-n-octyl phthalate	3700	2370	64	8	30	52-137	
Fluoranthene	3700	3520	58	5	30	59-109	*
Fluorene	3700	2810	74	0	30	65-108	
Hexachlorobenzene	3700	2700	73	1	30	65-117	*
Hexachlorobutadiene	3700	2740	74	1	30	60-105	
Hexachlorocyclopentadiene	3700	2530	68	4	30	37-119	
Hexachloroethane	3700	2230	60	6	30	60-94	
Indeno[1,2,3-cd]pyrene	3700	4990	110	6	30	50-134	
Isophorone	3700	2510	66	2	30	60-102	
Naphthalene	3700	2750	73	0	30	64-99	
Nitrobenzene	3700	2590	70	3	30	59-102	
N-Nitrosodi-n-propylamine	3700	2280	62	5	30	56-112	
N-Nitrosodiphenylamine	3700	3200	87	1	30	71-119	*
Pentachlorophenol	7390	5430	73	2	30	47-115	*
Phenanthrene	3700	3360	62	6	30	66-105	*
Phenol	3700	2130	58	8	30	55-99	
Pyrene	3700	2910	47	1	30	55-126	*

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-112069-1
SDG No.: _____
Lab File ID: x12825.D Lab Sample ID: MB 460-362437/1-A
Matrix: Solid Date Extracted: 04/14/2016 01:50
Instrument ID: CBNAMS5 Date Analyzed: 04/14/2016 10:29
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-362437/2-A	x12826.D	04/14/2016 10:53
	LCS 460-362437/3-A	x12827.D	04/14/2016 11:17
A3	460-112069-1	x12828.D	04/14/2016 11:41
A3 MS	460-112069-1 MS	x12829.D	04/14/2016 12:05
A3 MSD	460-112069-1 MSD	x12830.D	04/14/2016 12:30

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

Lab Name: TestAmerica Edison Job No.: 460-112069-1
SDG No.: _____
Lab File ID: x12691.D DFTPP Injection Date: 04/11/2016
Instrument ID: CBNAMS5 DFTPP Injection Time: 13:27
Analysis Batch No.: 361914

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	49.4
68	Less than 2.0 % of mass 69	0.8 (2.0) 1
69	Mass 69 relative abundance	40.0
70	Less than 2.0 % of mass 69	0.5 (1.3) 1
127	40.0 - 60.0 % of mass 198	50.2
197	Less than 1.0 % of mass 198	0.4
198	Base Peak, 100 % relative abundance	100.0
199	5.0- 9.0 % of mass 198	7.0
275	10.0 - 30.0 % of mass 198	24.5
365	Greater than 1.0 % of mass 198	4.3
441	Present but less than mass 443	19.6 (76.4) 3
442	Greater than 40.0 % of mass 198	130.1
443	17.0 - 23.0 % of mass 442	25.7 (19.8) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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
	ICIS 460-361914/2	x12692.D	04/11/2016	13:47
	STD120 460-361914/3	x12693.D	04/11/2016	14:11
	STD80 460-361914/4	x12694.D	04/11/2016	14:35
	STD20 460-361914/5	x12695.D	04/11/2016	15:00
	STD10 460-361914/6	x12696.D	04/11/2016	15:24
	STD5 460-361914/7	x12697.D	04/11/2016	15:48
	STD2 460-361914/8	x12698.D	04/11/2016	16:13
	STD1 460-361914/9	x12699.D	04/11/2016	16:37
	STD05 460-361914/10	x12700.D	04/11/2016	17:01
	STD50 460-361914/11	x12701.D	04/11/2016	17:25
	STD120 460-361914/12	x12702.D	04/11/2016	17:49
	STD80 460-361914/13	x12703.D	04/11/2016	18:14
	STD20 460-361914/14	x12704.D	04/11/2016	18:38
	STD10 460-361914/15	x12705.D	04/11/2016	19:03
	STD5 460-361914/16	x12706.D	04/11/2016	19:27
	STD2 460-361914/17	x12707.D	04/11/2016	19:51
	ICV 460-361914/18	x12708.D	04/11/2016	20:16
	ICV 460-361914/19	x12709e.D	04/11/2016	22:26

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

Lab Name: TestAmerica Edison Job No.: 460-112069-1
SDG No.: _____
Lab File ID: x12814e.D DFTPP Injection Date: 04/14/2016
Instrument ID: CBNAMS5 DFTPP Injection Time: 05:37
Analysis Batch No.: 362392

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	30.0 - 60.0 % of mass 198	41.1
68	Less than 2.0 % of mass 69	0.5 (1.5) 1
69	Mass 69 relative abundance	33.8
70	Less than 2.0 % of mass 69	0.0 (0.0) 1
127	40.0 - 60.0 % of mass 198	47.7
197	Less than 1.0 % of mass 198	0.5
198	Base Peak, 100 % relative abundance	100.0
199	5.0- 9.0 % of mass 198	6.8
275	10.0 - 30.0 % of mass 198	25.4
365	Greater than 1.0 % of mass 198	5.2
441	Present but less than mass 443	16.1 (82.3) 3
442	Greater than 40.0 % of mass 198	106.1
443	17.0 - 23.0 % of mass 442	19.6 (18.5) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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 460-362392/2	x12815.D	04/14/2016	05:53
	CCV 460-362392/3	x12816a.D	04/14/2016	06:51
	MB 460-362437/1-A	x12825.D	04/14/2016	10:29
	LCS 460-362437/2-A	x12826.D	04/14/2016	10:53
	LCS 460-362437/3-A	x12827.D	04/14/2016	11:17
A3	460-112069-1	x12828.D	04/14/2016	11:41
A3 MS	460-112069-1 MS	x12829.D	04/14/2016	12:05
A3 MSD	460-112069-1 MSD	x12830.D	04/14/2016	12:30

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

Lab Name: TestAmerica Edison Job No.: 460-112069-1
 SDG No.: _____
 Sample No.: ICIS 460-361914/2 Date Analyzed: 04/11/2016 13:47
 Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): x12692.D Heated Purge: (Y/N) N
 Calibration ID: 55291

	DCB		NPT		ANT		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	927586	4.51	3027697	5.79	1518049	7.54	
UPPER LIMIT	1855172	5.01	6055394	6.29	3036098	8.04	
LOWER LIMIT	463793	4.01	1513849	5.29	759025	7.04	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-361914/18		1035985	4.51	3414076	5.79	1695354	7.54
ICV 460-361914/19		1340707	4.51	4497487	5.78	2423592	7.54

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 Edison Job No.: 460-112069-1
 SDG No.: _____
 Sample No.: ICIS 460-361914/2 Date Analyzed: 04/11/2016 13:47
 Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): x12692.D Heated Purge: (Y/N) N
 Calibration ID: 55291

	PHN		CRY		PRY		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	1997195	9.01	1276231	11.82	1099439	13.79	
UPPER LIMIT	3994390	9.51	2552462	12.32	2198878	14.29	
LOWER LIMIT	998598	8.51	638116	11.32	549720	13.29	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 460-361914/18		2195104	9.01	1383434	11.82	1125396	13.78
ICV 460-361914/19		3454936	9.01	1984105	11.82	1514479	13.78

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 Edison Job No.: 460-112069-1
 SDG No.: _____
 Sample No.: CCVIS 460-362392/2 Date Analyzed: 04/14/2016 05:53
 Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): x12815.D Heated Purge: (Y/N) N
 Calibration ID: 55296

		DCB		NPT		ANT	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		1242262	4.28	4177450	5.56	2185051	7.31
UPPER LIMIT		2484524	4.78	8354900	6.06	4370102	7.81
LOWER LIMIT		621131	3.78	2088725	5.06	1092526	6.81
LAB SAMPLE ID		CLIENT SAMPLE ID					
MB 460-362437/1-A		913776	4.27	3366563	5.55	1956376	7.30
LCS 460-362437/2-A		945703	4.28	3275789	5.55	1750516	7.31
LCS 460-362437/3-A		928152	4.27	3374289	5.55	1971805	7.30
460-112069-1	A3	903110	4.28	2880520	5.55	1400247	7.30
460-112069-1 MS	A3 MS	767537	4.28	2426971	5.55	1140284	7.31
460-112069-1 MSD	A3 MSD	821941	4.28	2531790	5.55	1166681	7.31

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 Edison Job No.: 460-112069-1
 SDG No.: _____
 Sample No.: CCVIS 460-362392/2 Date Analyzed: 04/14/2016 05:53
 Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)
 Lab File ID (Standard): x12815.D Heated Purge: (Y/N) N
 Calibration ID: 55296

		PHN		CRY		PRY	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		2967575	8.77	1833699	11.52	1382822	13.42
UPPER LIMIT		5935150	9.27	3667398	12.02	2765644	13.92
LOWER LIMIT		1483788	8.27	916850	11.02	691411	12.92
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-362437/1-A		2955462	8.76	1964074	11.51	1445492	13.42
LCS 460-362437/2-A		2437335	8.77	1638109	11.52	1279756	13.42
LCS 460-362437/3-A		2884791	8.76	1932201	11.51	1473844	13.42
460-112069-1	A3	1737217	8.76	1094069	11.51	1213248	13.43
460-112069-1 MS	A3 MS	1402443*	8.77	943761	11.52	1148839	13.43
460-112069-1 MSD	A3 MSD	1411869*	8.77	1012871	11.52	1302609	13.43

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 I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112069-1</u>
SDG No.: _____	
Client Sample ID: <u>A3</u>	Lab Sample ID: <u>460-112069-1</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x12828.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>04/13/2016 12:10</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/14/2016 01:50</u>
Sample wt/vol: <u>15.0114(g)</u>	Date Analyzed: <u>04/14/2016 11:41</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: <u>9.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>362392</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	370	U	370	31
95-94-3	1,2,4,5-Tetrachlorobenzene	370	U	370	27
108-60-1	2,2'-oxybis[1-chloropropane]	370	U	370	15
58-90-2	2,3,4,6-Tetrachlorophenol	370	U	370	34
95-95-4	2,4,5-Trichlorophenol	370	U	370	36
88-06-2	2,4,6-Trichlorophenol	150	U	150	10
120-83-2	2,4-Dichlorophenol	150	U	150	8.6
105-67-9	2,4-Dimethylphenol	370	U	370	81
51-28-5	2,4-Dinitrophenol	290	U	290	280
121-14-2	2,4-Dinitrotoluene	74	U	74	15
606-20-2	2,6-Dinitrotoluene	74	U	74	20
91-58-7	2-Chloronaphthalene	370	U	370	8.3
95-57-8	2-Chlorophenol	370	U	370	9.3
91-57-6	2-Methylnaphthalene	26	J	370	8.1
95-48-7	2-Methylphenol	370	U	370	16
88-74-4	2-Nitroaniline	370	U	370	12
88-75-5	2-Nitrophenol	370	U	370	12
91-94-1	3,3'-Dichlorobenzidine	150	U	150	41
99-09-2	3-Nitroaniline	370	U	370	11
534-52-1	4,6-Dinitro-2-methylphenol	290	U	290	98
101-55-3	4-Bromophenyl phenyl ether	370	U	370	12
59-50-7	4-Chloro-3-methylphenol	370	U	370	16
106-47-8	4-Chloroaniline	370	U	370	9.4
7005-72-3	4-Chlorophenyl phenyl ether	370	U	370	11
106-44-5	4-Methylphenol	10	J	370	10
100-01-6	4-Nitroaniline	370	U	370	14
100-02-7	4-Nitrophenol	740	U	740	180
83-32-9	Acenaphthene	67	J	370	8.9
208-96-8	Acenaphthylene	37	J	370	9.4
98-86-2	Acetophenone	370	U	370	8.0
120-12-7	Anthracene	200	J	370	35
1912-24-9	Atrazine	150	U	150	16
100-52-7	Benzaldehyde	370	U	370	28
56-55-3	Benzo[a]anthracene	680		37	31

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112069-1</u>
SDG No.: _____	
Client Sample ID: <u>A3</u>	Lab Sample ID: <u>460-112069-1</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x12828.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>04/13/2016 12:10</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/14/2016 01:50</u>
Sample wt/vol: <u>15.0114(g)</u>	Date Analyzed: <u>04/14/2016 11:41</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: <u>9.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>362392</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	700		37	11
205-99-2	Benzo[b]fluoranthene	900		37	14
191-24-2	Benzo[g,h,i]perylene	810		370	21
207-08-9	Benzo[k]fluoranthene	330		37	16
111-91-1	Bis(2-chloroethoxy)methane	370	U	370	11
111-44-4	Bis(2-chloroethyl)ether	37	U	37	8.6
117-81-7	Bis(2-ethylhexyl) phthalate	370	U	370	14
85-68-7	Butyl benzyl phthalate	370	U	370	11
105-60-2	Caprolactam	370	U	370	26
86-74-8	Carbazole	86	J	370	9.1
218-01-9	Chrysene	750		370	10
53-70-3	Dibenz(a,h)anthracene	190		37	19
132-64-9	Dibenzofuran	48	J	370	11
84-66-2	Diethyl phthalate	370	U	370	10
131-11-3	Dimethyl phthalate	370	U	370	11
84-74-2	Di-n-butyl phthalate	370	U	370	11
117-84-0	Di-n-octyl phthalate	370	U	370	19
206-44-0	Fluoranthene	1400		370	11
86-73-7	Fluorene	65	J	370	8.0
118-74-1	Hexachlorobenzene	37	U	37	15
87-68-3	Hexachlorobutadiene	74	U	74	10
77-47-4	Hexachlorocyclopentadiene	370	U	370	23
67-72-1	Hexachloroethane	37	U	37	13
193-39-5	Indeno[1,2,3-cd]pyrene	930		37	24
78-59-1	Isophorone	62	J	150	7.9
91-20-3	Naphthalene	54	J	370	9.3
98-95-3	Nitrobenzene	37	U	37	12
621-64-7	N-Nitrosodi-n-propylamine	37	U	37	12
86-30-6	N-Nitrosodiphenylamine	370	U	370	33
87-86-5	Pentachlorophenol	290	U	290	44
85-01-8	Phenanthrene	1100		370	9.8
108-95-2	Phenol	370	U	370	12
129-00-0	Pyrene	1200		370	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-112069-1
SDG No.: _____
Client Sample ID: A3 Lab Sample ID: 460-112069-1
Matrix: Solid Lab File ID: x12828.D
Analysis Method: 8270D Date Collected: 04/13/2016 12:10
Extract. Method: 3546 Date Extracted: 04/14/2016 01:50
Sample wt/vol: 15.0114(g) Date Analyzed: 04/14/2016 11:41
Con. Extract Vol.: 1(mL) Dilution Factor: 1
Injection Volume: 1(uL) Level: (low/med) Low
% Moisture: 9.9 GPC Cleanup: (Y/N) N
Analysis Batch No.: 362392 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	56		10-95
321-60-8	2-Fluorobiphenyl	70		27-84
367-12-4	2-Fluorophenol (Surr)	52		21-84
4165-60-0	Nitrobenzene-d5 (Surr)	63		28-92
4165-62-2	Phenol-d5 (Surr)	51		22-88
1718-51-0	Terphenyl-d14 (Surr)	73		16-114

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12828.D
 Lims ID: 460-112069-A-1-C Lab Sample ID: 460-112069-1
 Client ID: A3
 Sample Type: Client
 Inject. Date: 14-Apr-2016 11:41:30 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039822-015
 Operator ID: Instrument ID: CBNAMS5
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 14-Apr-2016 17:40:45 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: zhaoc

Date: 14-Apr-2016 12:28:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
\$ 4 2-Fluorophenol	112	3.106	2.989	0.117	94	856691	26.1	
\$ 6 Phenol-d5	99	3.918	3.924	-0.006	86	949168	25.4	
10 Benzonitrile	103	4.036	4.048	-0.012	1	1040	NC	
* 14 1,4-Dichlorobenzene-d4	152	4.283	4.265	0.018	97	903110	40.0	
23 3 & 4 Methylphenol	108	4.683	4.706	-0.023	92	3642	0.1382	
24 4-Methylphenol	108	4.683	4.706	-0.023	88	3642	0.1382	
20 N-Methylaniline	106	4.759	4.783	-0.024	1	67	NC	
\$ 26 Nitrobenzene-d5	82	4.824	4.842	-0.018	95	946543	31.3	
29 2-Toluidine	107	4.959	4.968	-0.009	34	6339	NC	
31 Isophorone	82	5.083	5.112	-0.029	96	39252	0.8395	
* 38 Naphthalene-d8	136	5.547	5.547	0.000	99	2880520	40.0	
39 Naphthalene	128	5.565	5.583	-0.018	97	55626	0.7321	
44 2-Methylnaphthalene	142	6.265	6.271	-0.006	85	18767	0.3574	
45 1-Methylnaphthalene	142	6.359	6.371	-0.012	93	16202	0.3594	
\$ 51 2-Fluorobiphenyl	172	6.635	6.641	-0.006	98	2073495	34.9	
57 1,3-Dimethylnaphthalene	156	6.965	6.977	-0.012	98	17801	0.4969	
61 Acenaphthylene	152	7.159	7.171	-0.012	97	30763	0.5027	
* 65 Acenaphthene-d10	164	7.300	7.300	0.000	91	1400247	40.0	
67 Acenaphthene	154	7.330	7.341	-0.011	94	36963	0.9095	
71 Dibenzofuran	168	7.500	7.512	-0.012	94	37968	0.6533	
75 Fluorene	166	7.835	7.847	-0.012	97	36894	0.8816	
\$ 80 2,4,6-Tribromophenol	330	8.077	8.088	-0.011	91	320630	27.8	
63 2-Naphthylamine	143	8.441	8.385	0.056	10	178	NC	
62 1-Naphthylamine	143	8.371	8.385	-0.014	45	380	NC	
* 88 Phenanthrene-d10	188	8.759	8.765	-0.006	97	1737217	40.0	
89 Phenanthrene	178	8.782	8.794	-0.012	96	700521	14.4	
90 Anthracene	178	8.829	8.841	-0.012	98	133809	2.73	
91 Carbazole	167	8.988	9.000	-0.012	96	42255	1.17	
93 Fluoranthene	202	9.953	9.959	-0.006	98	779735	18.5	
95 Pyrene	202	10.171	10.182	-0.011	98	663222	15.7	
\$ 96 Terphenyl-d14	244	10.335	10.335	0.000	98	1238366	36.5	
101 Benzo[a]anthracene	228	11.500	11.506	-0.006	96	291858	9.22	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 102 Chrysene-d12	240	11.512	11.512	0.000	98	1094069	40.0	
103 Chrysene	228	11.541	11.547	-0.006	99	290303	10.2	
106 Benzo[b]fluoranthene	252	12.900	12.906	-0.006	96	387030	12.1	
107 Benzo[k]fluoranthene	252	12.929	12.941	-0.012	22	154808	4.51	
108 Benzo[a]pyrene	252	13.341	13.347	-0.006	98	273310	9.53	
* 109 Perylene-d12	264	13.429	13.423	0.006	99	1213248	40.0	
110 Indeno[1,2,3-cd]pyrene	276	14.923	14.929	-0.006	96	307379	12.6	
111 Dibenz(a,h)anthracene	278	14.958	14.964	-0.006	94	67334	2.51	
112 Benzo[g,h,i]perylene	276	15.341	15.347	-0.006	95	329023	10.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SM_ISTD_00105

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160413-39822.b\\x12828.D

Injection Date: 14-Apr-2016 11:41:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: 460-112069-A-1-C

Lab Sample ID: 460-112069-1

Worklist Smp#: 15

Client ID: A3

Injection Vol: 1.0 ul

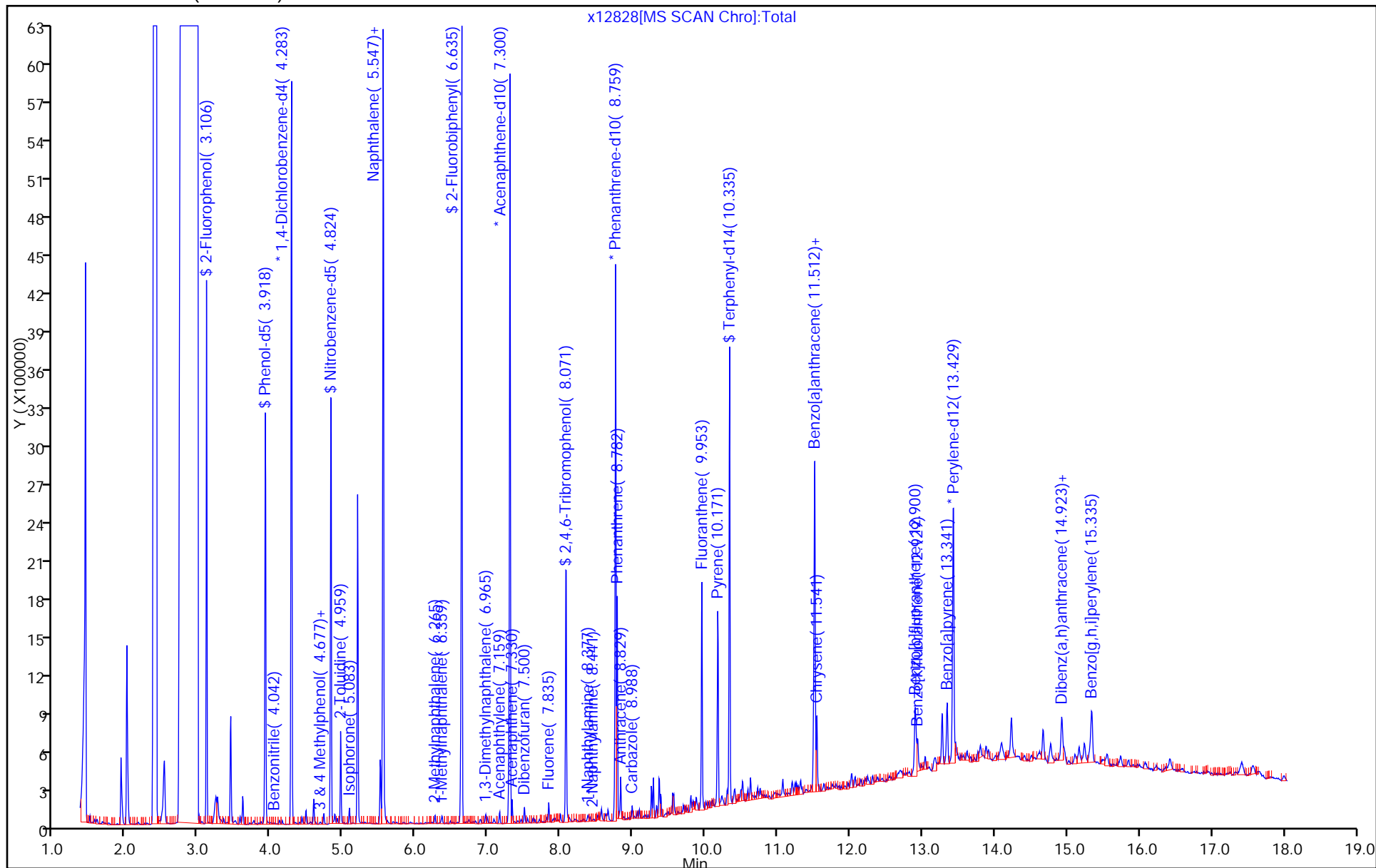
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12828.D

Injection Date: 14-Apr-2016 11:41:30

Instrument ID: CBNAMS5

Lims ID: 460-112069-A-1-C

Lab Sample ID: 460-112069-1

Client ID: A3

Operator ID:

ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

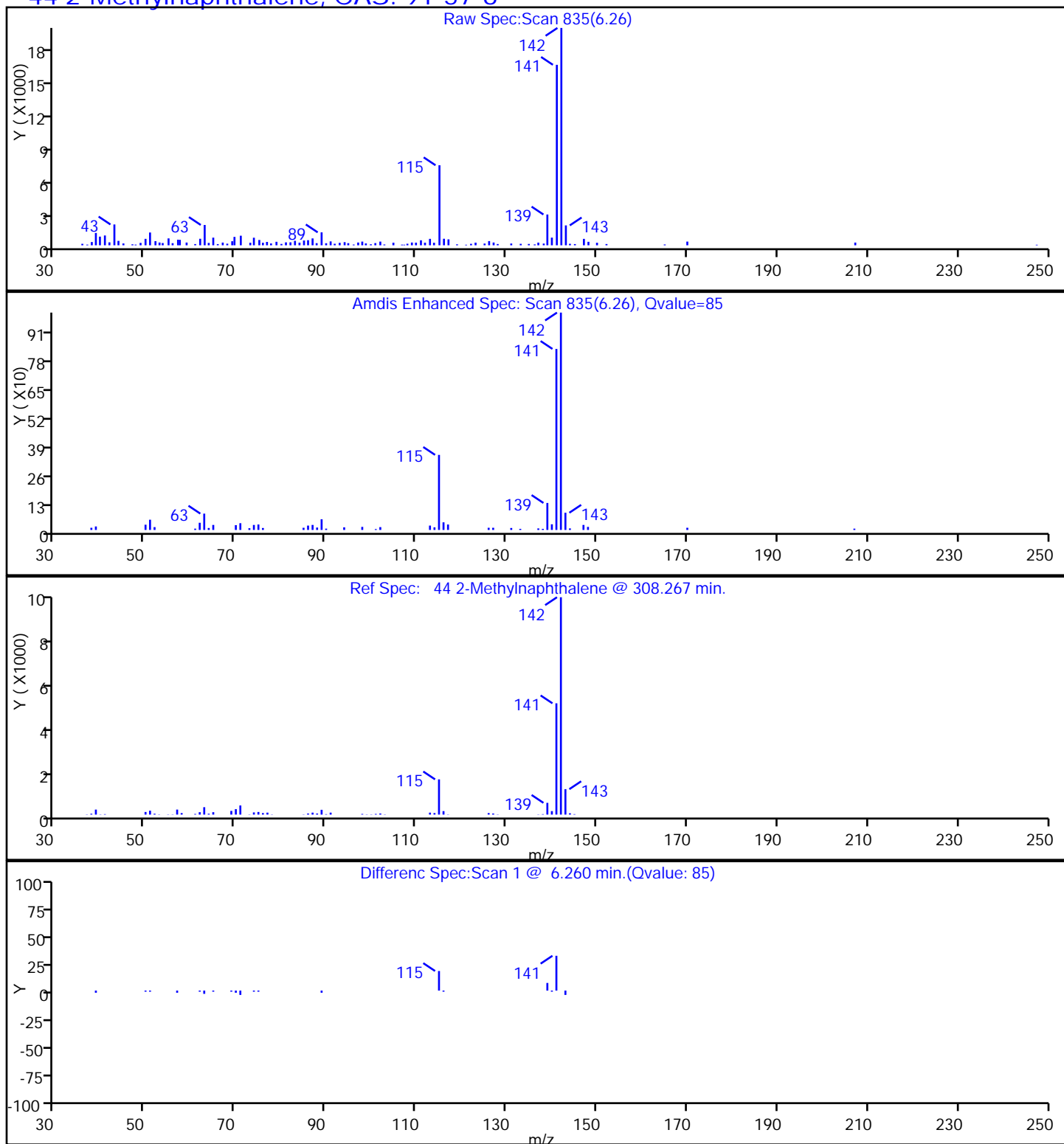
Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

44 2-Methylnaphthalene, CAS: 91-57-6



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12828.D

Injection Date: 14-Apr-2016 11:41:30

Instrument ID: CBNAMS5

Lims ID: 460-112069-A-1-C

Lab Sample ID: 460-112069-1

Client ID: A3

Operator ID:

ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 1.0 ul

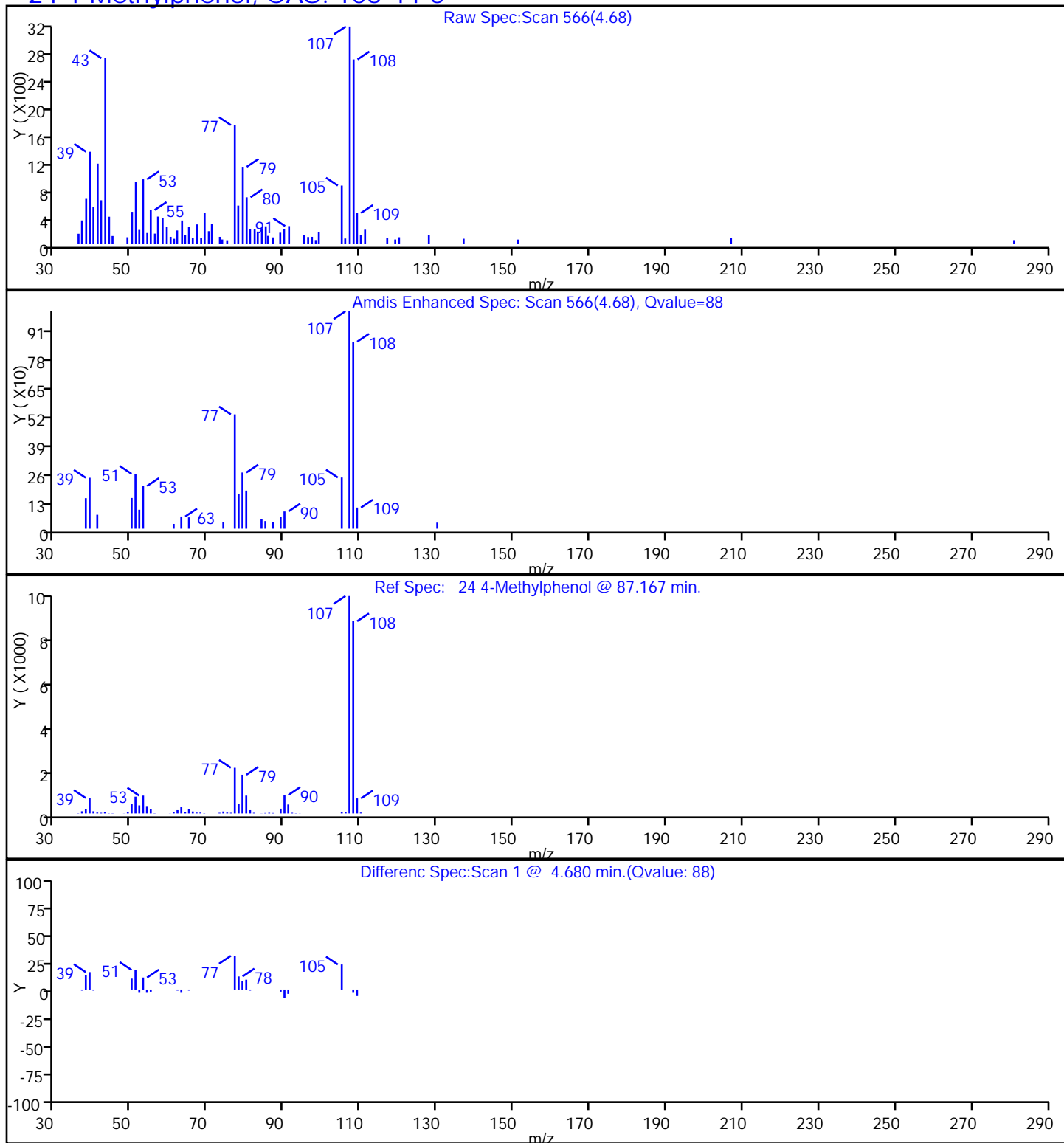
Dil. Factor: 1.0000

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

24 4-Methylphenol, CAS: 106-44-5

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12828.D

Injection Date: 14-Apr-2016 11:41:30

Instrument ID: CBNAMS5

Lims ID: 460-112069-A-1-C

Lab Sample ID: 460-112069-1

Client ID: A3

Operator ID:

ALS Bottle#: 15

Worklist Smp#: 15

Injection Vol: 1.0 ul

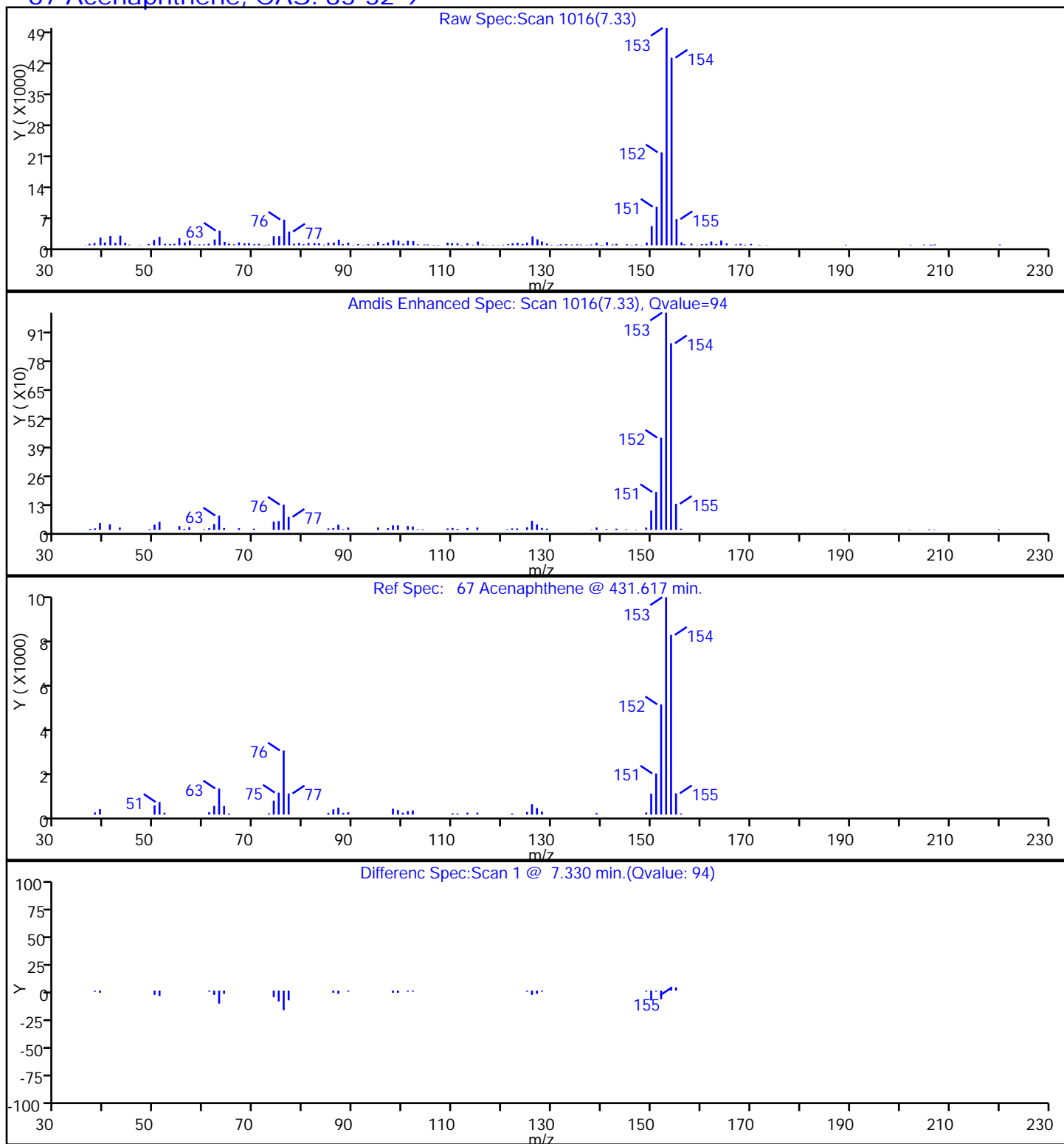
Dil. Factor: 1.0000

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

67 Acenaphthene, CAS: 83-32-9

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12828.D

Injection Date: 14-Apr-2016 11:41:30

Instrument ID: CBNAMS5

Lims ID: 460-112069-A-1-C

Lab Sample ID: 460-112069-1

Client ID: A3

Operator ID:

ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 1.0 ul

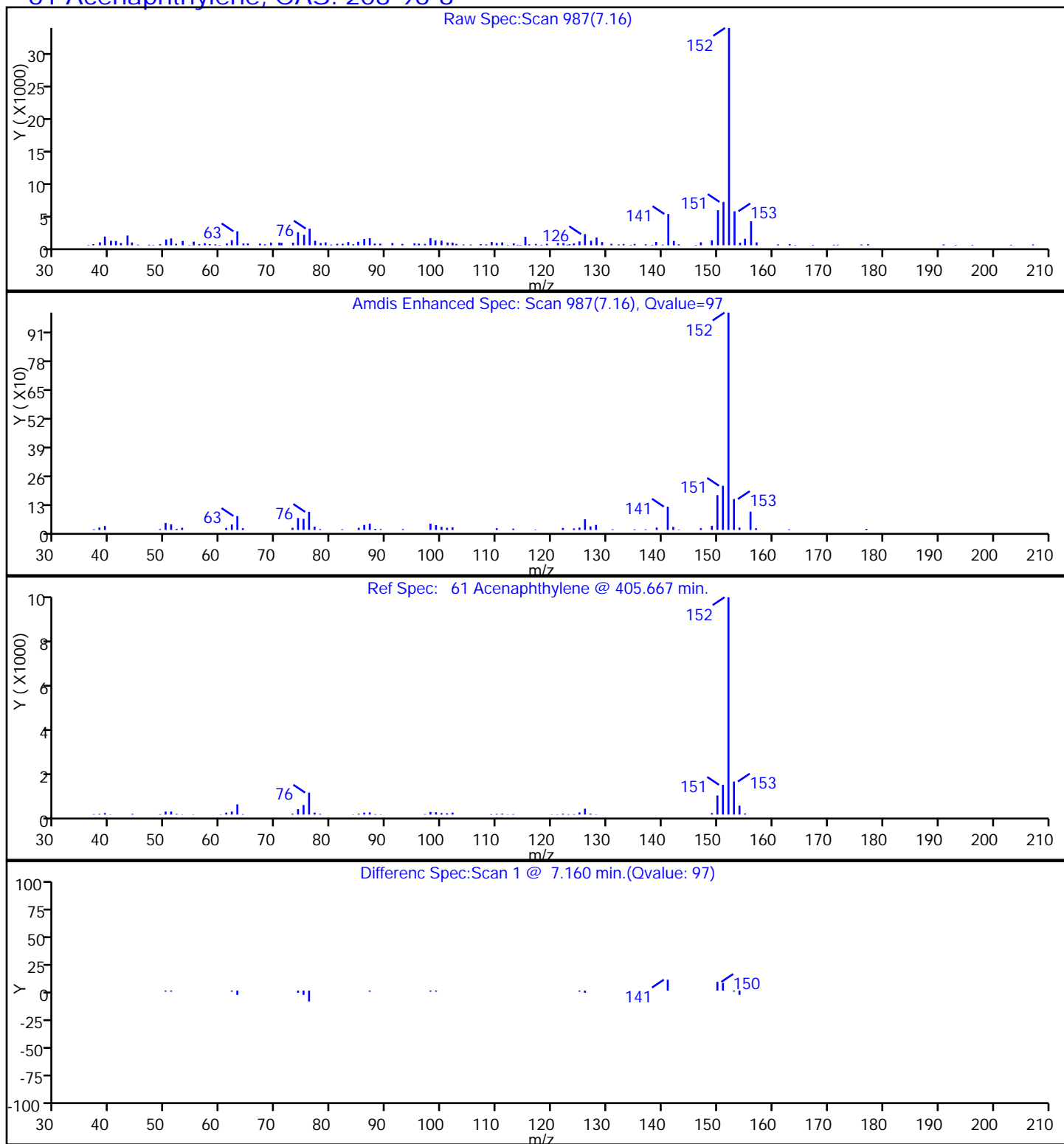
Dil. Factor: 1.0000

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

61 Acenaphthylene, CAS: 208-96-8

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12828.D

Injection Date: 14-Apr-2016 11:41:30

Instrument ID: CBNAMS5

Lims ID: 460-112069-A-1-C

Lab Sample ID: 460-112069-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

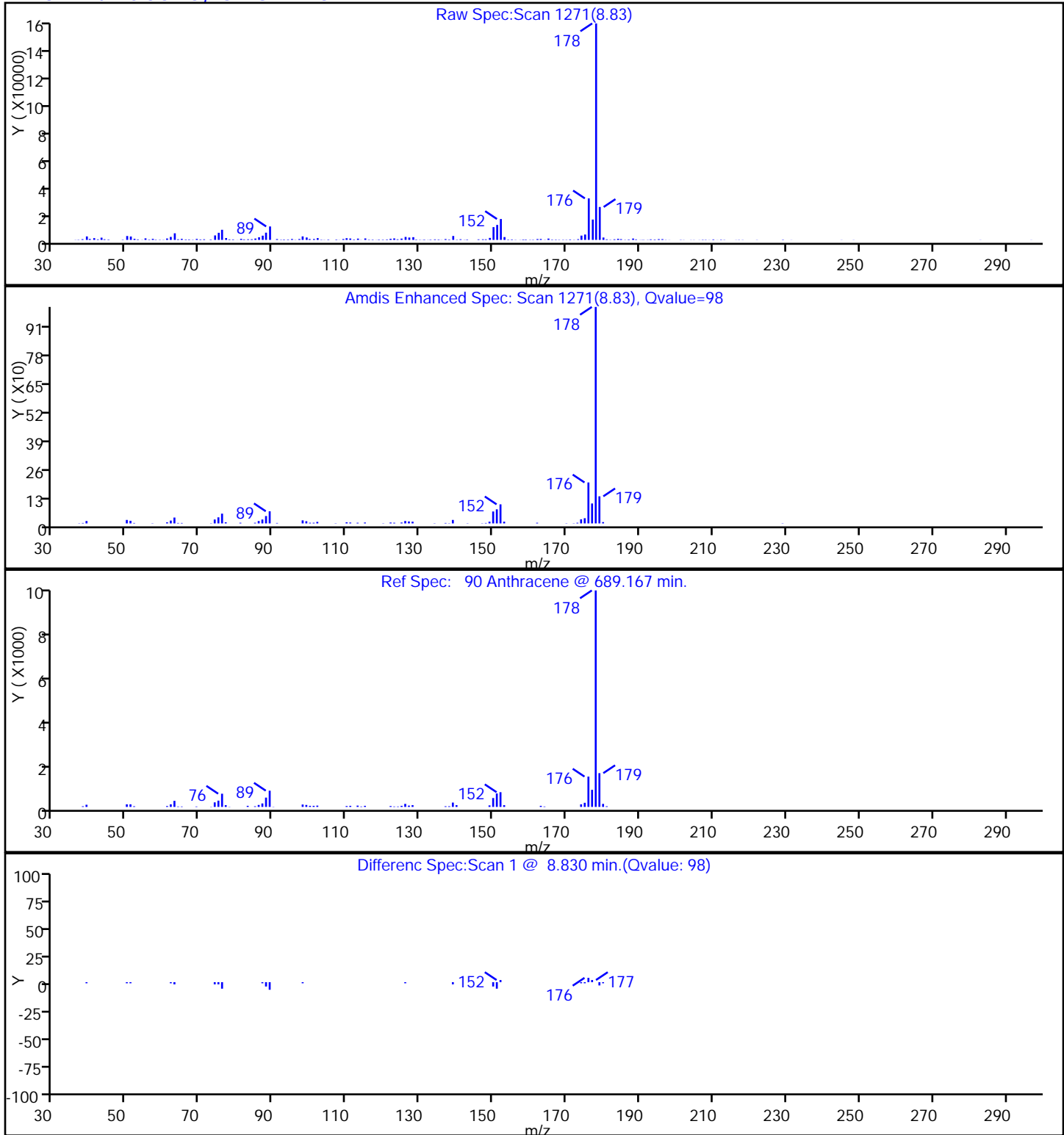
Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

90 Anthracene, CAS: 120-12-7

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12828.D

Injection Date: 14-Apr-2016 11:41:30

Instrument ID: CBNAMS5

Lims ID: 460-112069-A-1-C

Lab Sample ID: 460-112069-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

Limit Group:

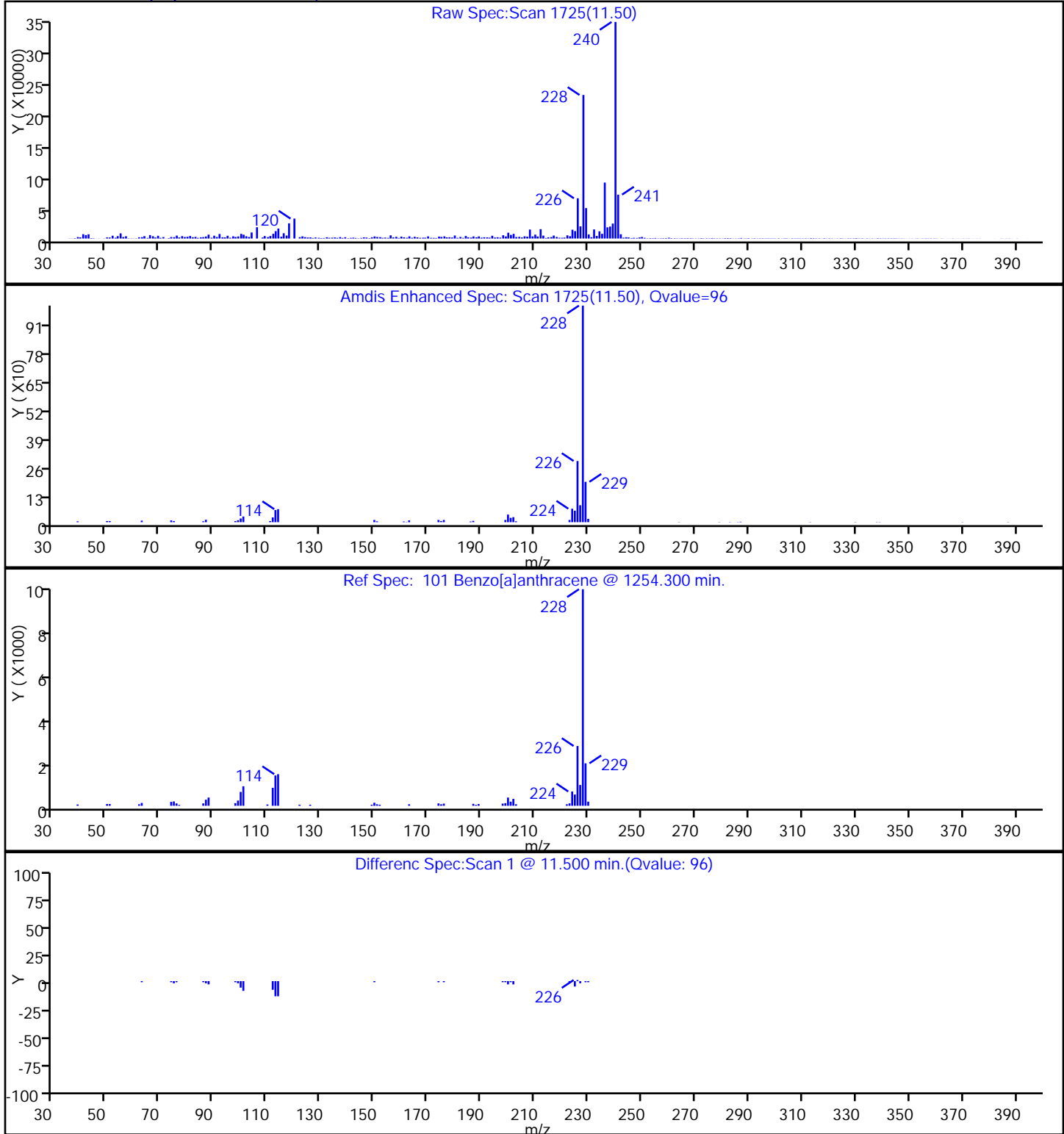
SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

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



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12828.D

Injection Date: 14-Apr-2016 11:41:30

Instrument ID: CBNAMS5

Lims ID: 460-112069-A-1-C

Lab Sample ID: 460-112069-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

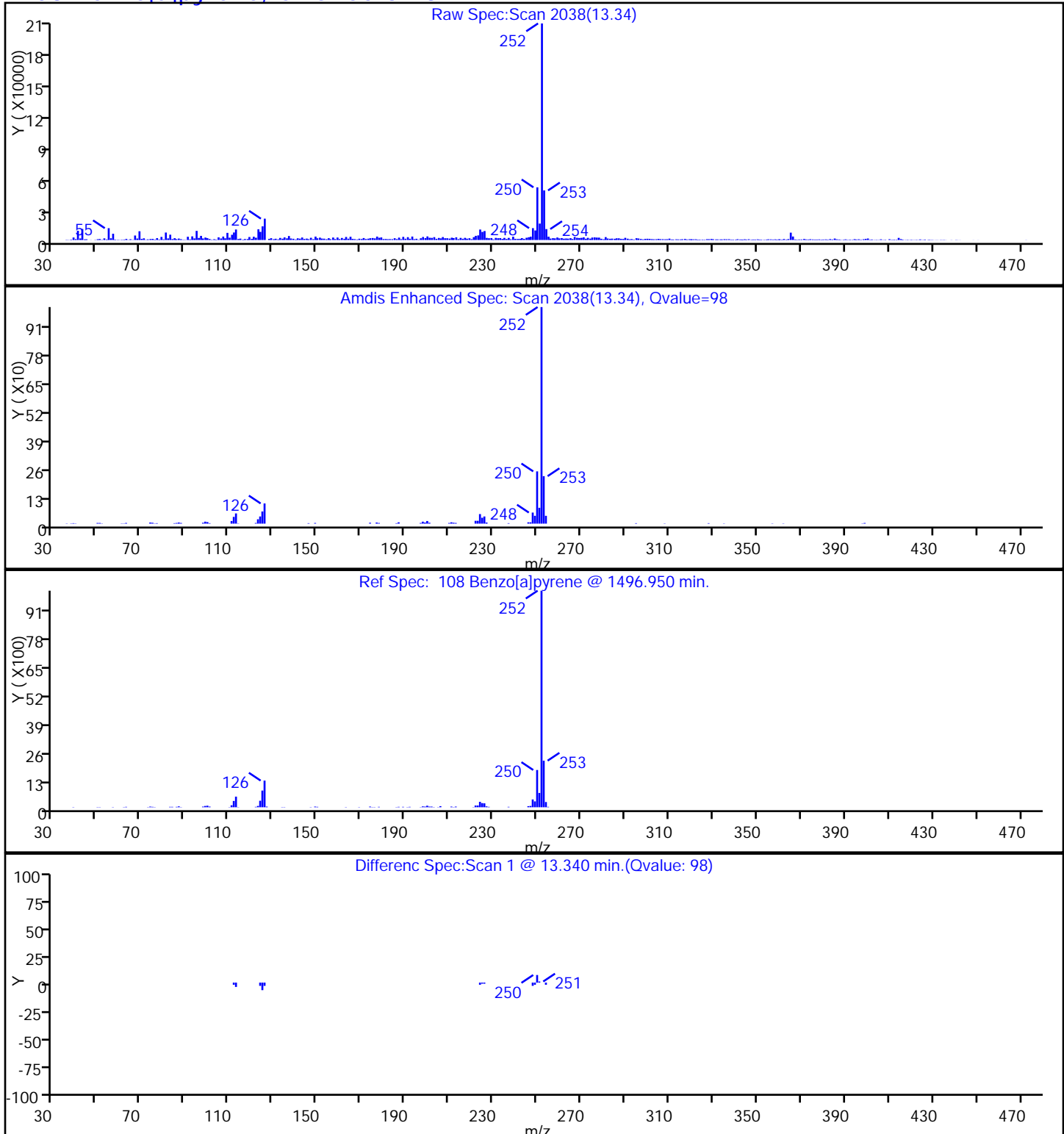
Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

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

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12828.D

Injection Date: 14-Apr-2016 11:41:30

Instrument ID: CBNAMS5

Lims ID: 460-112069-A-1-C

Lab Sample ID: 460-112069-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

Limit Group:

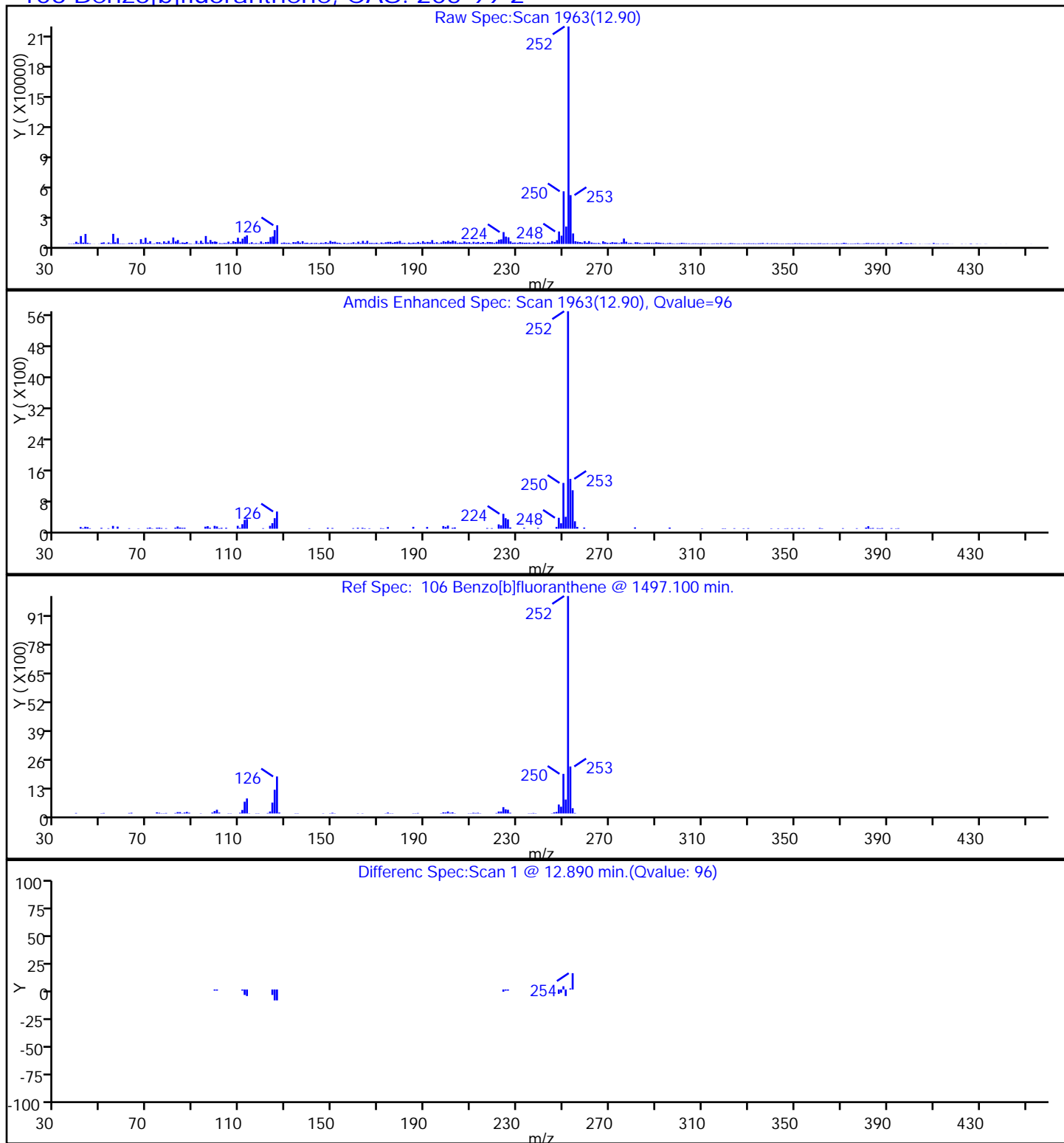
SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

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



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12828.D

Injection Date: 14-Apr-2016 11:41:30

Instrument ID: CBNAMS5

Lims ID: 460-112069-A-1-C

Lab Sample ID: 460-112069-1

Client ID: A3

Operator ID:

ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 1.0 ul

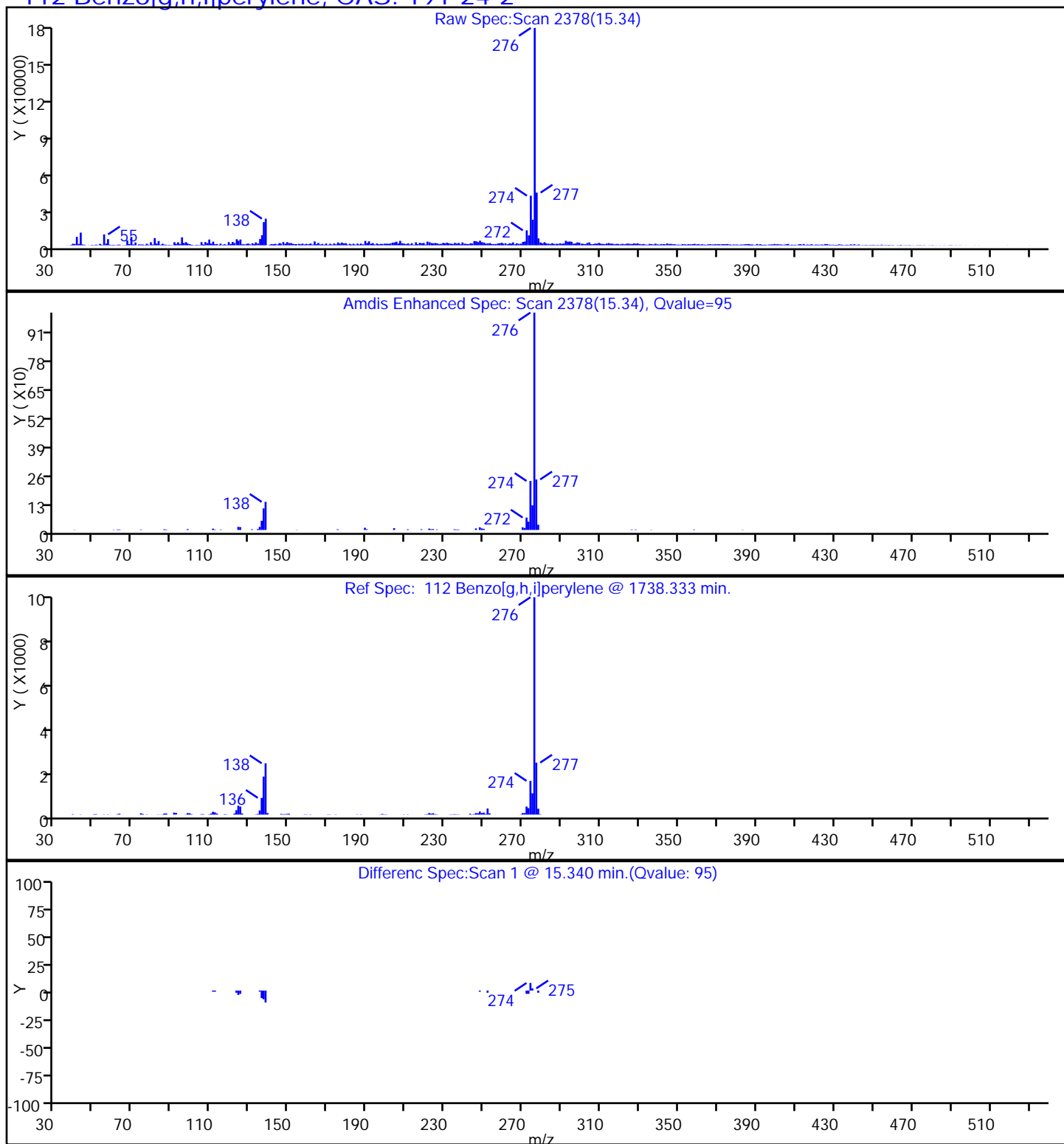
Dil. Factor: 1.0000

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

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

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12828.D

Injection Date: 14-Apr-2016 11:41:30

Instrument ID: CBNAMS5

Lims ID: 460-112069-A-1-C

Lab Sample ID: 460-112069-1

Client ID: A3

Operator ID:

ALS Bottle#:

Worklist Smp#: 15

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

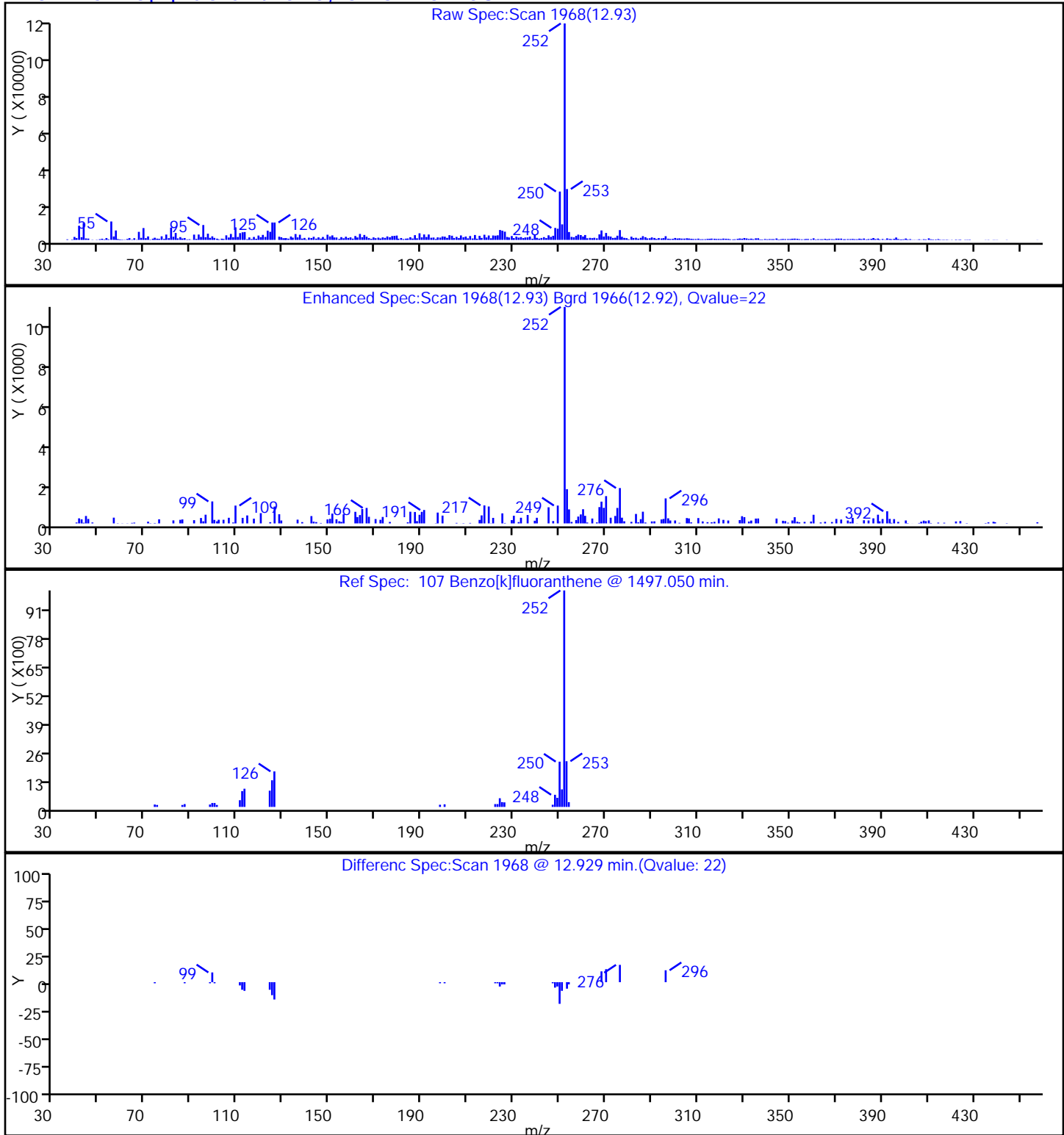
Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

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



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12828.D

Injection Date: 14-Apr-2016 11:41:30

Instrument ID: CBNAMS5

Lims ID: 460-112069-A-1-C

Lab Sample ID: 460-112069-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

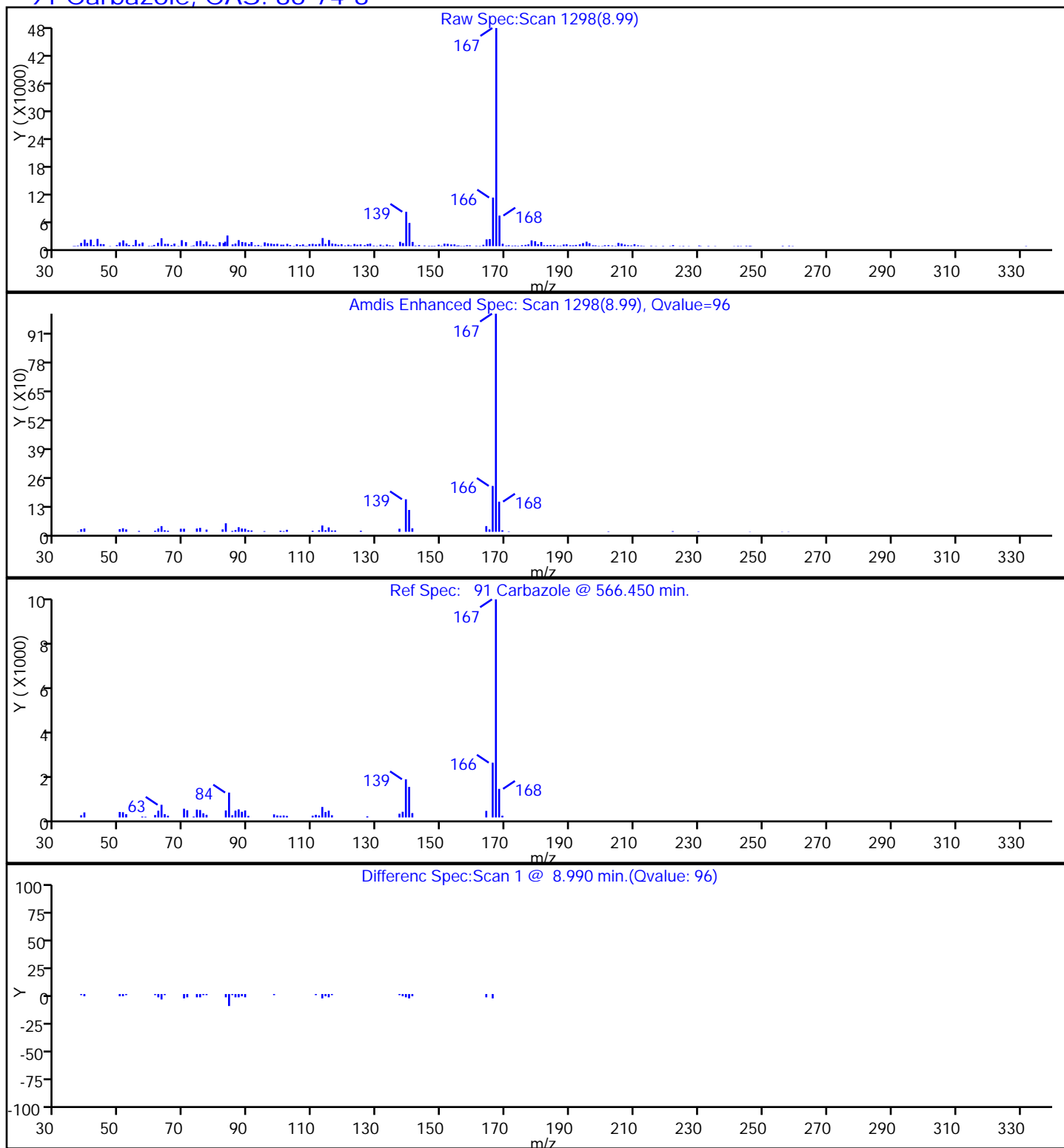
Dil. Factor: 1.0000

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

91 Carbazole, CAS: 86-74-8

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12828.D

Injection Date: 14-Apr-2016 11:41:30

Instrument ID: CBNAMS5

Lims ID: 460-112069-A-1-C

Lab Sample ID: 460-112069-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

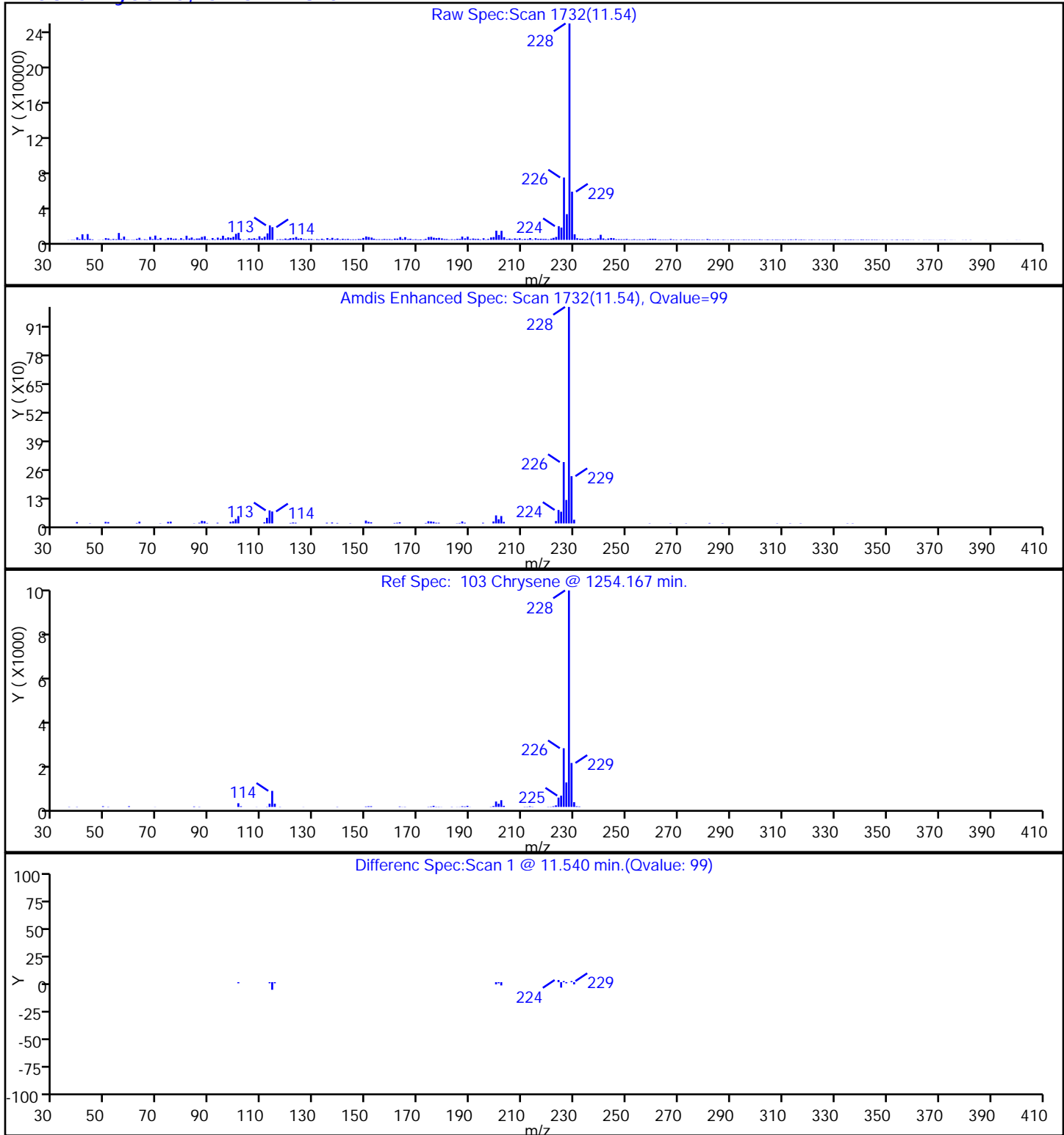
Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

103 Chrysene, CAS: 218-01-9

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12828.D

Injection Date: 14-Apr-2016 11:41:30

Instrument ID: CBNAMS5

Lims ID: 460-112069-A-1-C

Lab Sample ID: 460-112069-1

Client ID: A3

Operator ID:

ALS Bottle#:

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Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

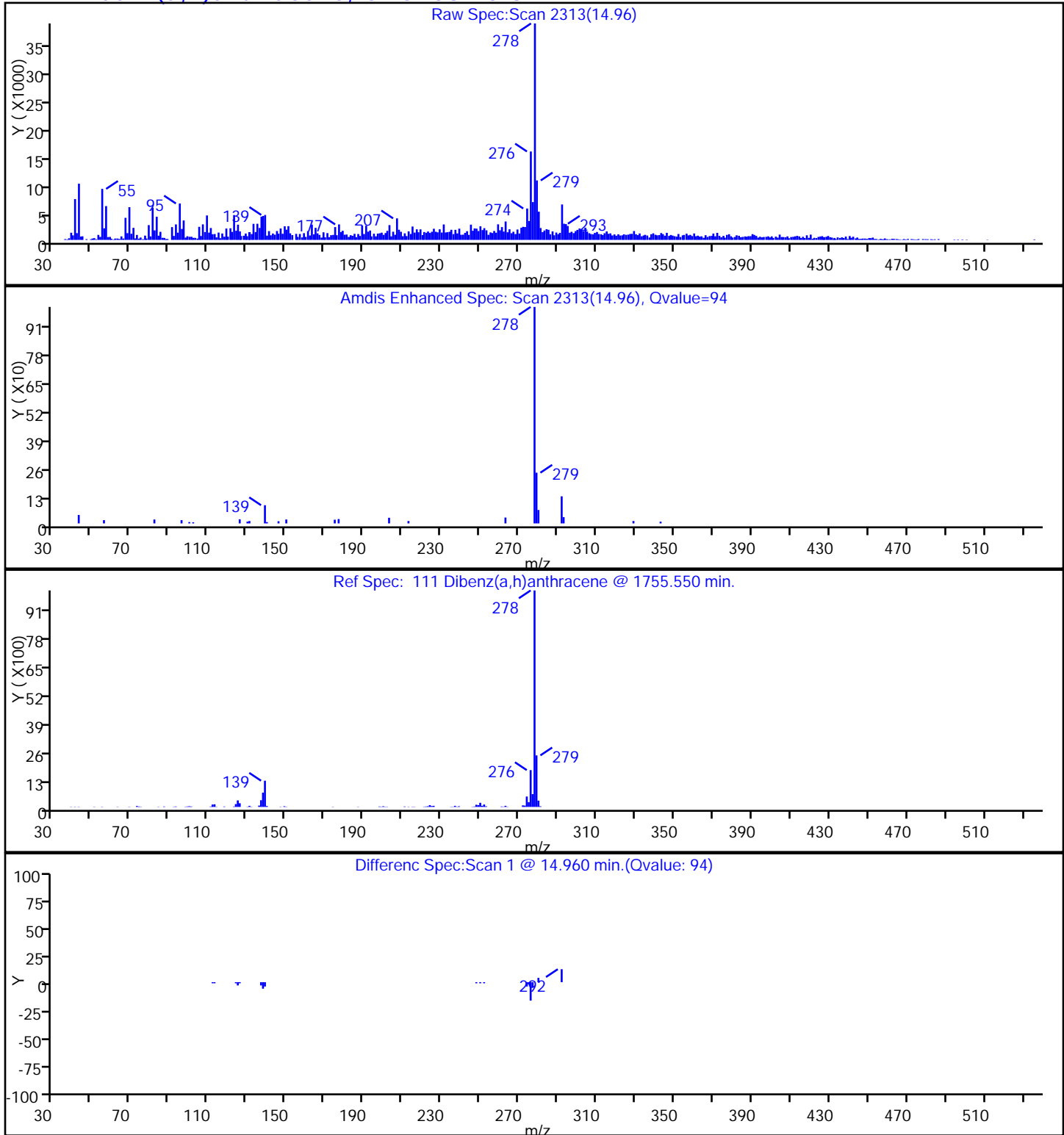
Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

111 Dibenz(a,h)anthracene, CAS: 53-70-3

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12828.D

Injection Date: 14-Apr-2016 11:41:30

Instrument ID: CBNAMS5

Lims ID: 460-112069-A-1-C

Lab Sample ID: 460-112069-1

Client ID: A3

Operator ID:

ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 1.0 ul

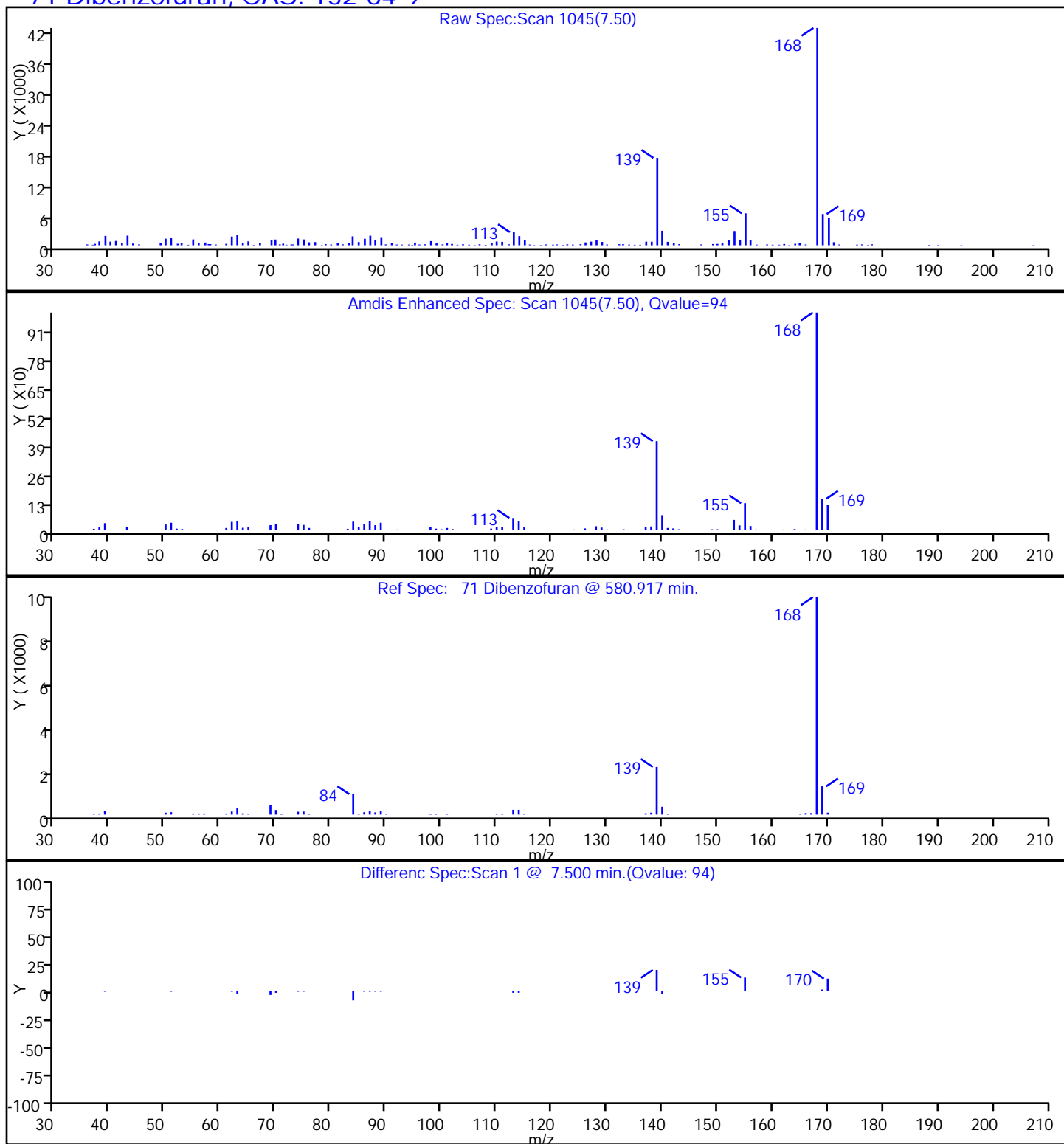
Dil. Factor: 1.0000

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

71 Dibenzofuran, CAS: 132-64-9

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12828.D

Injection Date: 14-Apr-2016 11:41:30

Instrument ID: CBNAMS5

Lims ID: 460-112069-A-1-C

Lab Sample ID: 460-112069-1

Client ID: A3

Operator ID:

ALS Bottle#: 15

Worklist Smp#: 15

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

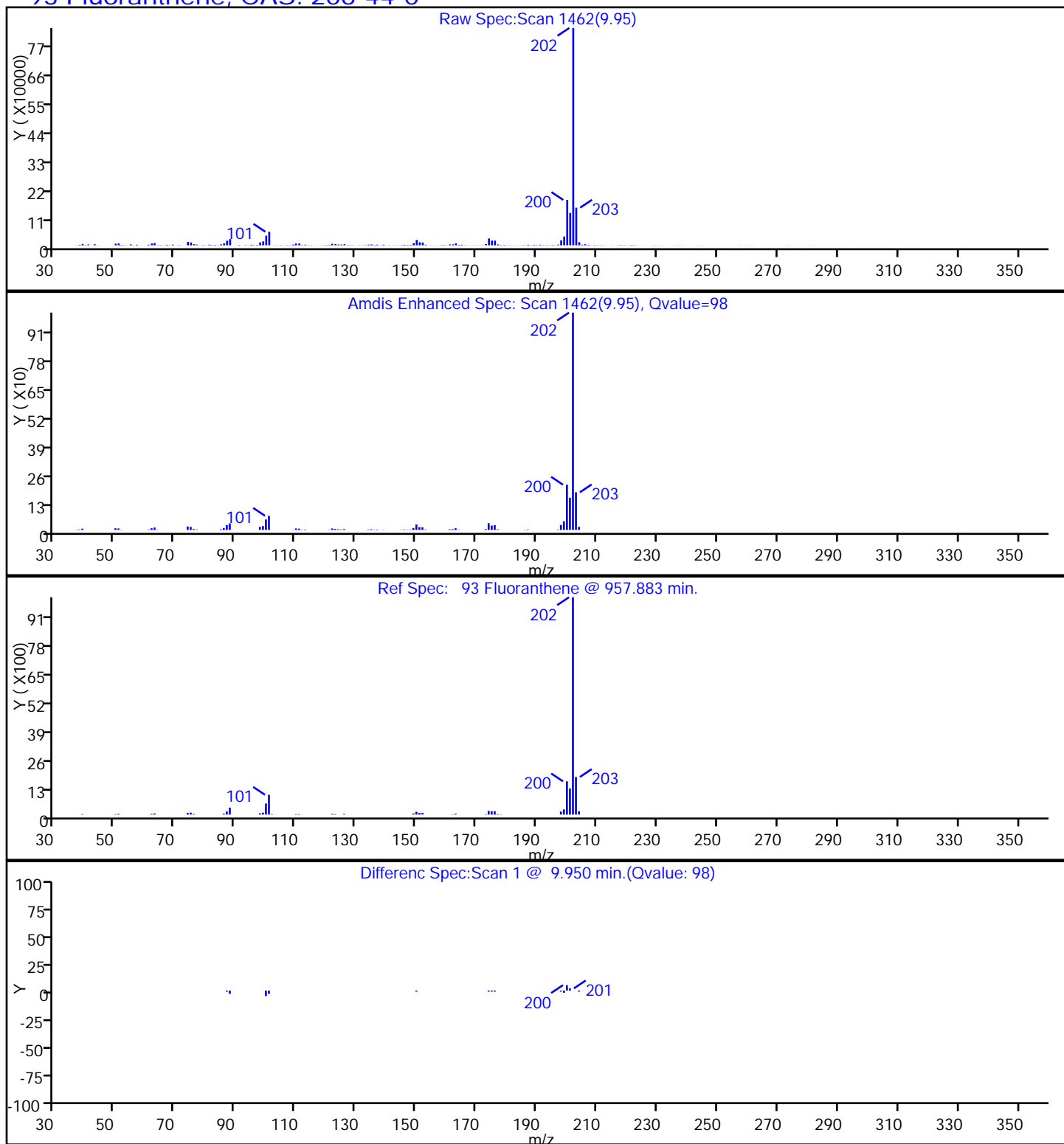
Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

93 Fluoranthene, CAS: 206-44-0



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12828.D

Injection Date: 14-Apr-2016 11:41:30

Instrument ID: CBNAMS5

Lims ID: 460-112069-A-1-C

Lab Sample ID: 460-112069-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

Limit Group:

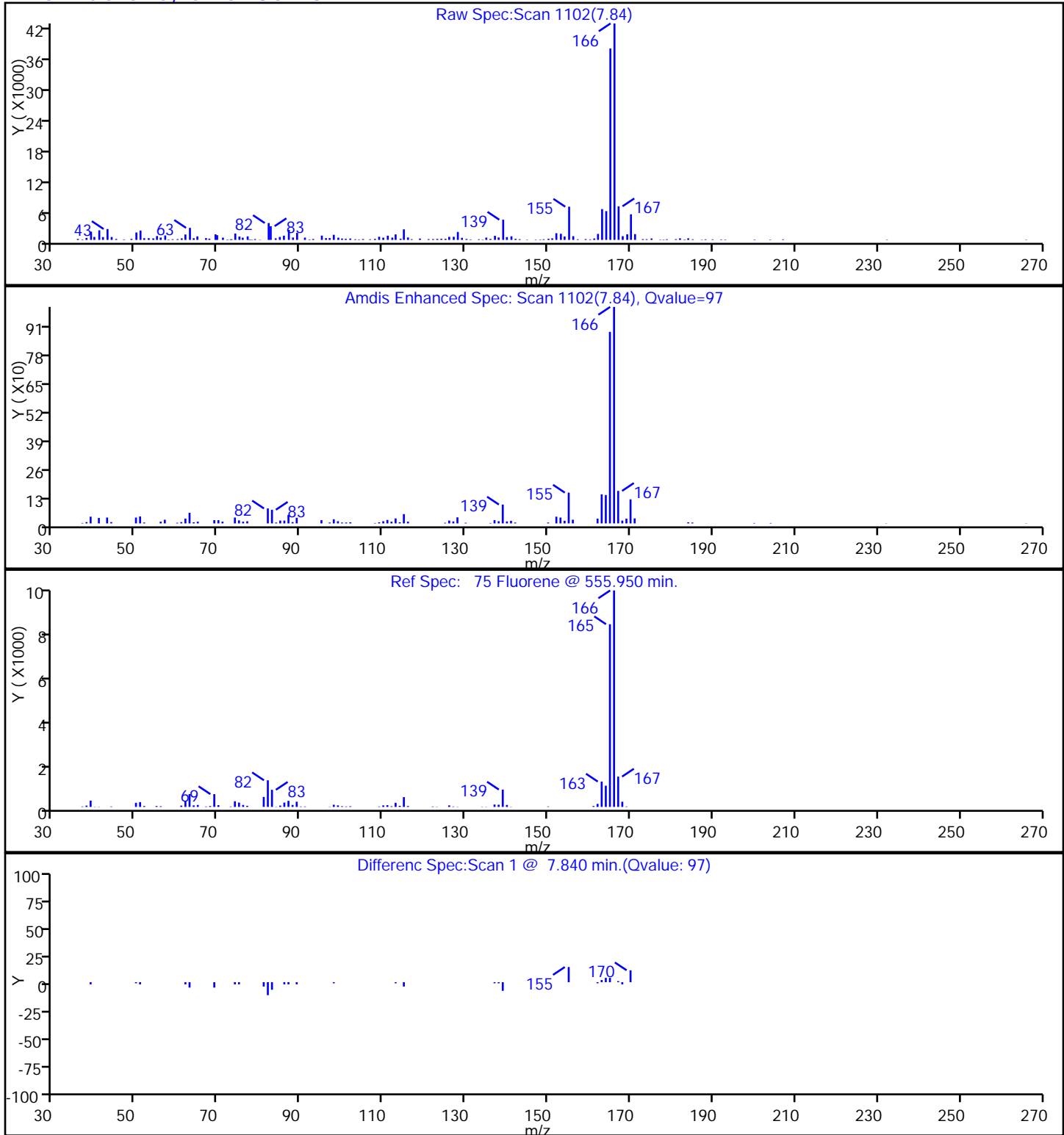
SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

75 Fluorene, CAS: 86-73-7



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12828.D

Injection Date: 14-Apr-2016 11:41:30

Instrument ID: CBNAMS5

Lims ID: 460-112069-A-1-C

Lab Sample ID: 460-112069-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

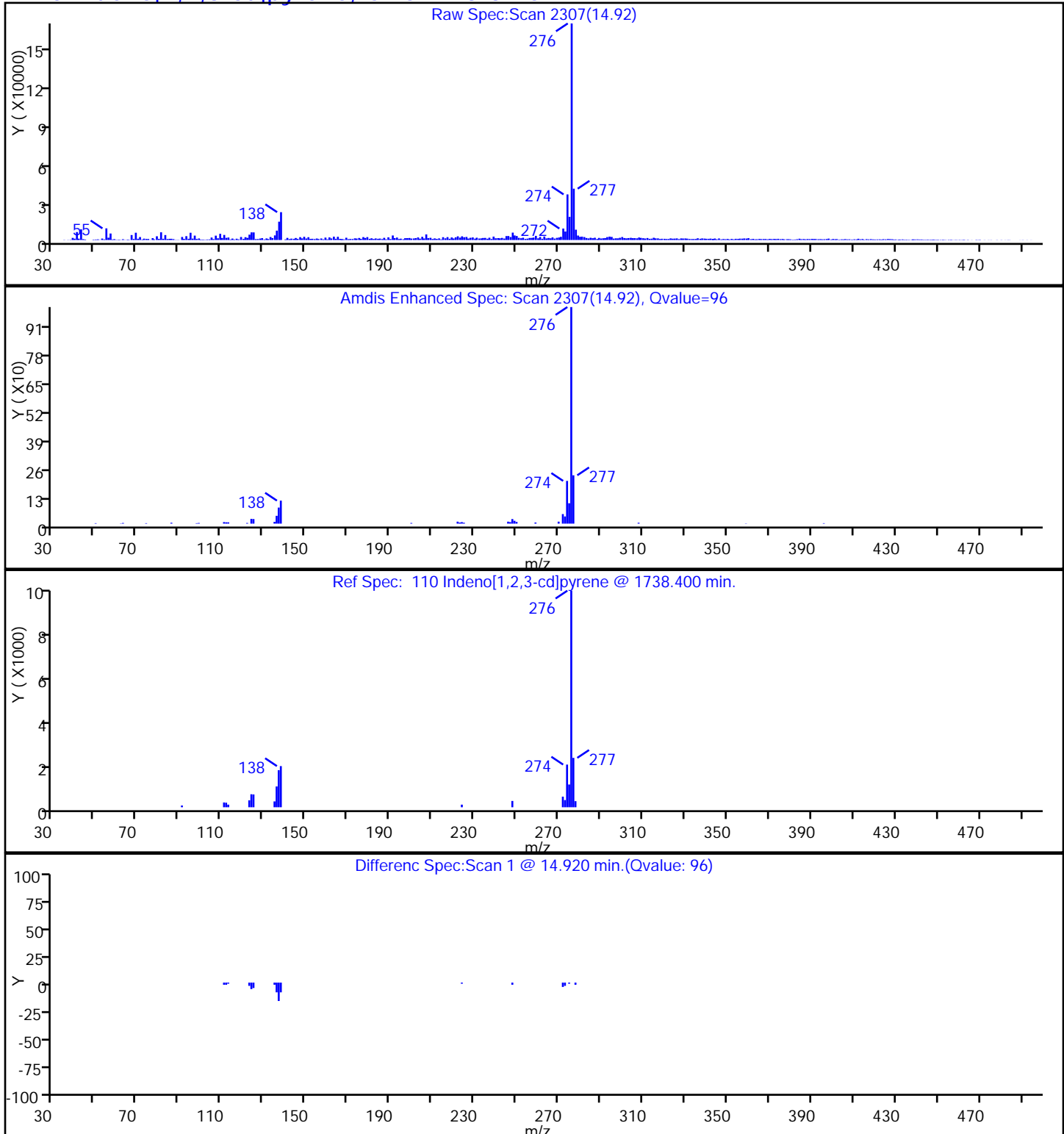
Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

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

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12828.D

Injection Date: 14-Apr-2016 11:41:30

Instrument ID: CBNAMS5

Lims ID: 460-112069-A-1-C

Lab Sample ID: 460-112069-1

Client ID: A3

Operator ID:

ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 1.0 ul

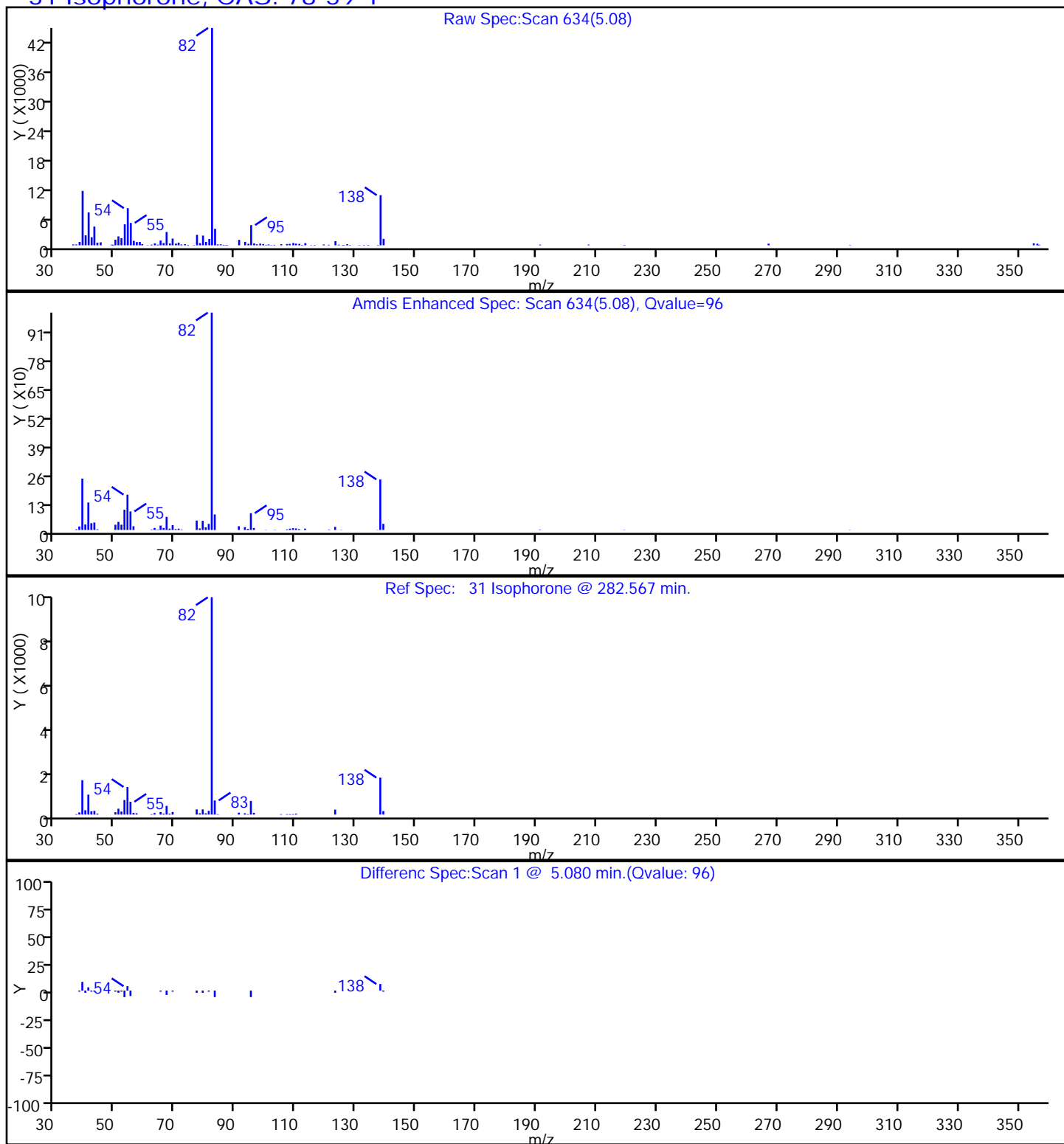
Dil. Factor: 1.0000

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

31 Isophorone, CAS: 78-59-1

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12828.D

Injection Date: 14-Apr-2016 11:41:30

Instrument ID: CBNAMS5

Lims ID: 460-112069-A-1-C

Lab Sample ID: 460-112069-1

Client ID: A3

Operator ID:

ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 1.0 ul

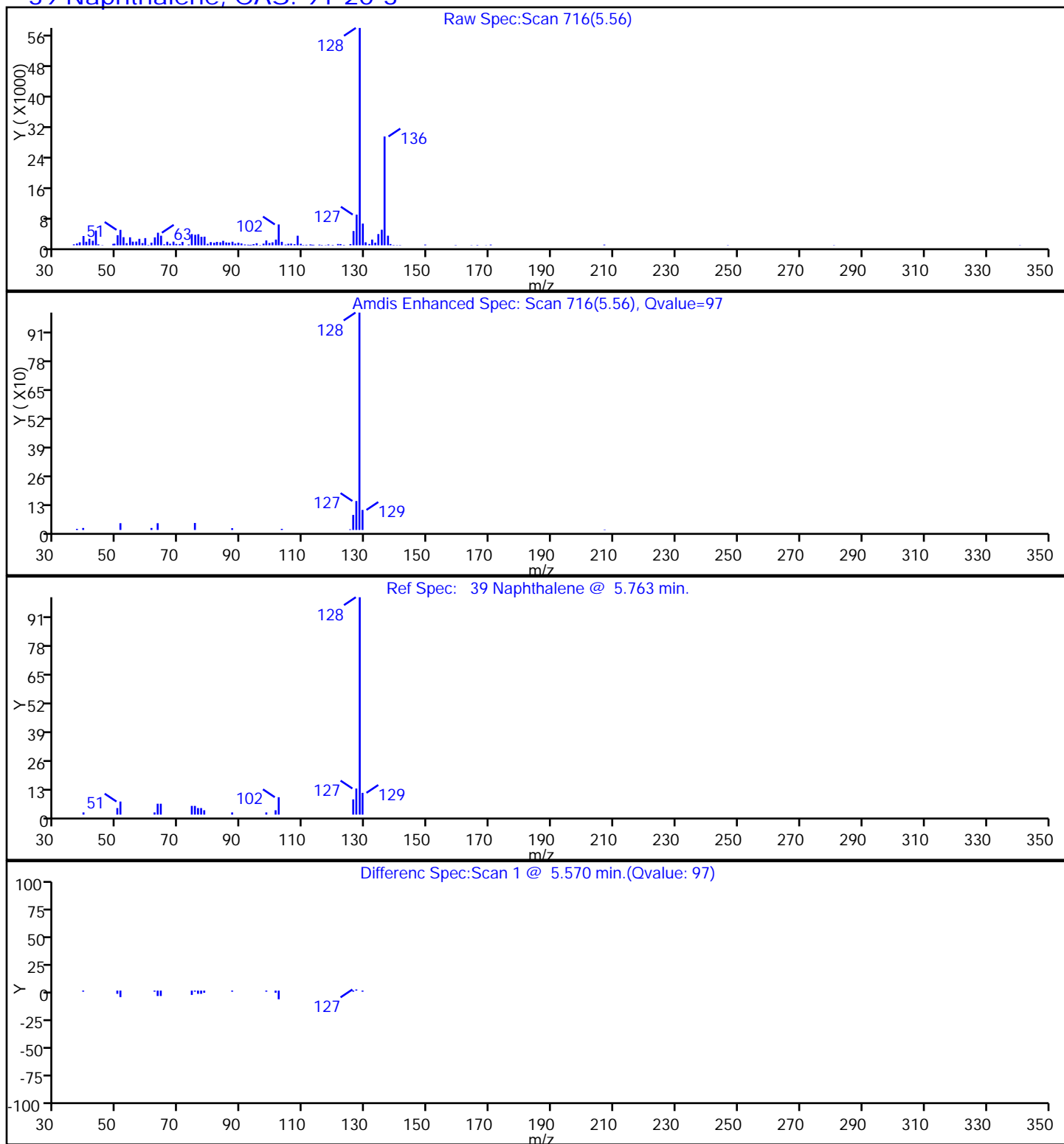
Dil. Factor: 1.0000

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

39 Naphthalene, CAS: 91-20-3

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12828.D

Injection Date: 14-Apr-2016 11:41:30

Instrument ID: CBNAMS5

Lims ID: 460-112069-A-1-C

Lab Sample ID: 460-112069-1

Client ID: A3

Operator ID:

ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

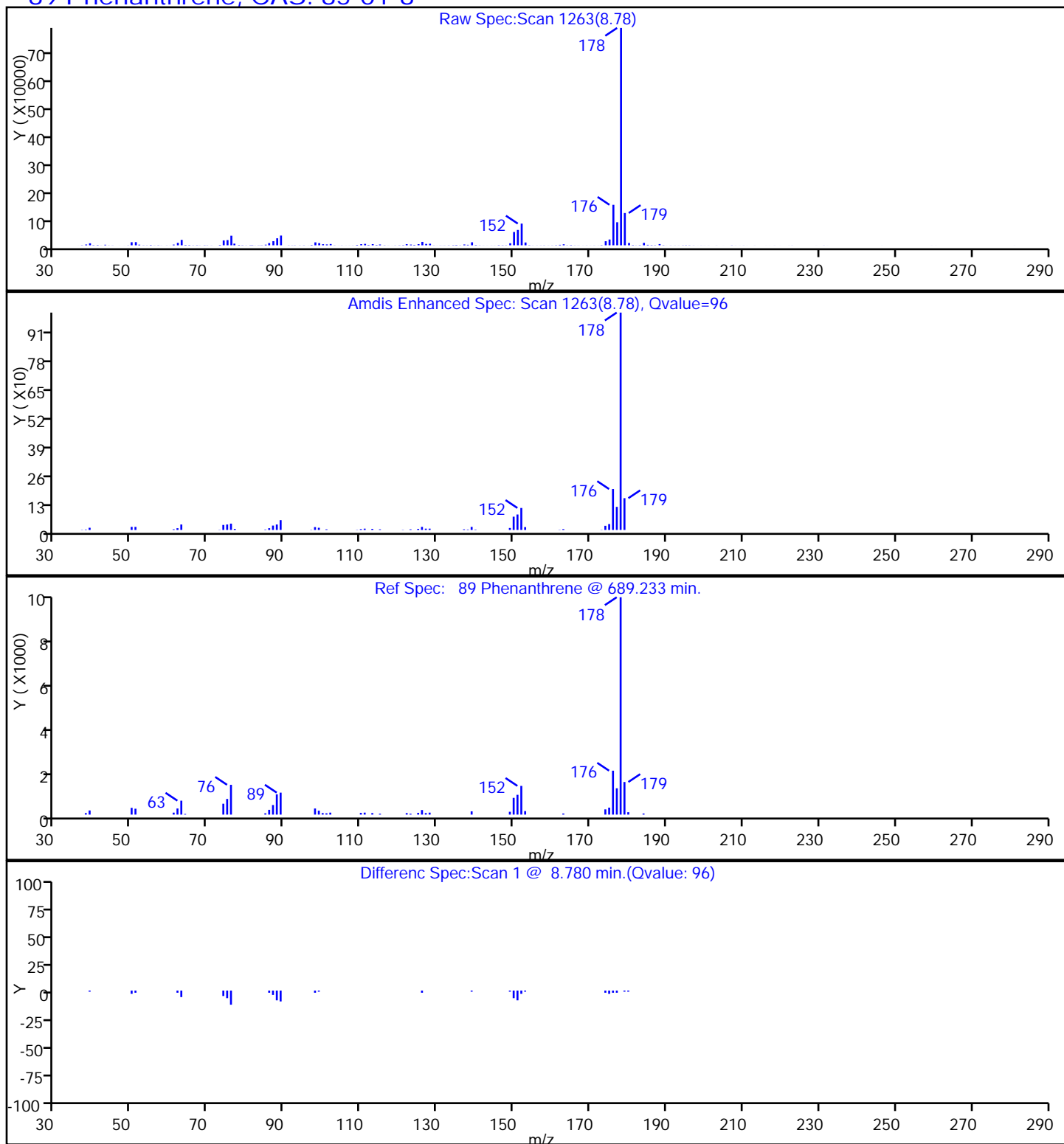
Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

89 Phenanthrene, CAS: 85-01-8



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12828.D

Injection Date: 14-Apr-2016 11:41:30

Instrument ID: CBNAMS5

Lims ID: 460-112069-A-1-C

Lab Sample ID: 460-112069-1

Client ID: A3

Operator ID:

ALS Bottle#:

15

Worklist Smp#:

15

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

Limit Group:

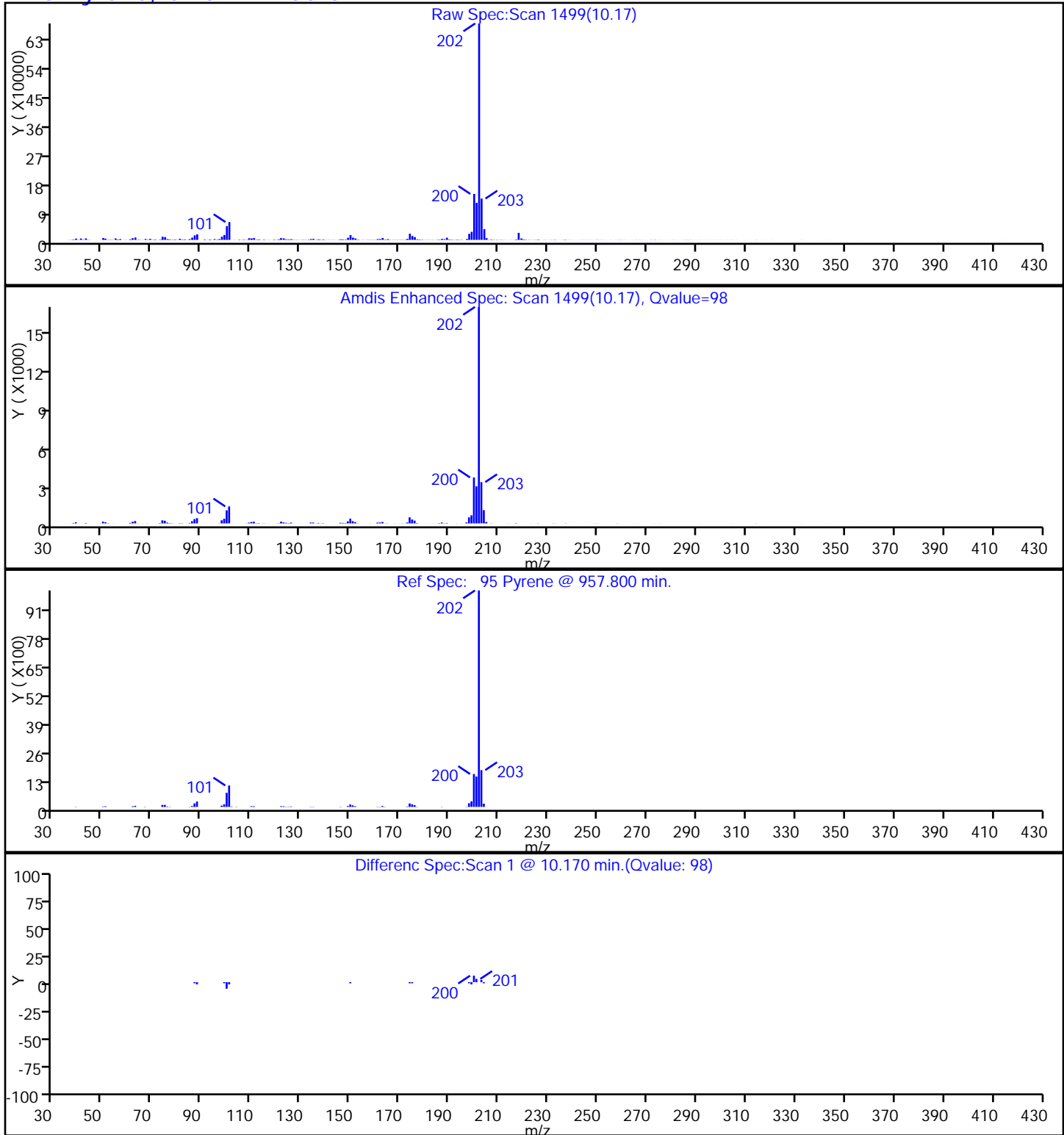
SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

95 Pyrene, CAS: 129-00-0



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

Lab Name: TestAmerica Edison Job No.: 460-112069-1 Analy Batch No.: 361914

SDG No.: _____

Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2016 13:47 Calibration End Date: 04/11/2016 17:01 Calibration ID: 55291

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD05 460-361914/10	x12700.D
Level 2	STD1 460-361914/9	x12699.D
Level 3	STD2 460-361914/8	x12698.D
Level 4	STD5 460-361914/7	x12697.D
Level 5	STD10 460-361914/6	x12696.D
Level 6	STD20 460-361914/5	x12695.D
Level 7	ICIS 460-361914/2	x12692.D
Level 8	STD80 460-361914/4	x12694.D
Level 9	STD120 460-361914/3	x12693.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1,4-Dioxane	0.5225	0.4889	0.4776	0.5251 0.4974	0.5469	Ave		0.5097				5.1		20.0			
N-Nitrosodimethylamine	0.7313	0.6666	0.6629	0.7413 0.6782	0.7629	Ave		0.7072				6.1		20.0			
Pyridine	1.2565	1.1191	1.1314	1.2796 1.1902	1.3269	Ave		1.2173				6.9		20.0			
Phenol	1.6650	1.4214	1.3711	1.7784 1.3928	1.7941	Ave		1.5705		0.8000	12.6	20.0					
Aniline	1.9858	1.8105	1.7419	2.0788 1.6992	2.1129	Ave		1.9048			9.3	20.0					
Bis(2-chloroethyl)ether	1.4750 1.1964	1.5155 1.0262	1.4597 0.9965	1.3076 1.0622	1.3000	Ave		1.2599		0.7000	15.9	20.0					
2-Chlorophenol	1.4423	1.2555	1.2117	1.5039 1.1904	1.5572	Ave		1.3602		0.8000	11.8	20.0					
n-Decane	1.7593	1.4268	1.3398	2.0884 +++++	2.0367	Ave		1.7302			19.8	20.0					
1,3-Dichlorobenzene	1.7956	1.5996	1.5447	1.8908 1.6030	1.9061	Ave		1.7233			9.3	20.0					
1,4-Dichlorobenzene	1.7486	1.5711	1.5182	1.8644 1.5874	1.8643	Ave		1.6923			9.1	20.0					
Benzyl alcohol	0.8522	0.8019	0.7956	0.9199 0.7761	0.9237	Ave		0.8449			7.7	20.0					
1,2-Dichlorobenzene	1.6997	1.4907	1.4150	1.7972 1.4539	1.8083	Ave		1.6108			11.1	20.0					
2-Methylphenol	1.2625	1.0996	1.0392	1.3621 1.0272	1.3421	Ave		1.1888		0.7000	12.8	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 Edison Job No.: 460-112069-1 Analy Batch No.: 361914
SDG No.: _____
Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 04/11/2016 13:47 Calibration End Date: 04/11/2016 17:01 Calibration ID: 55291

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2,2'-oxybis[1-chloropropane]	2.0822	1.7516	1.5596	2.3419 1.4234	2.3119	Qua	4.7359	1.8229	-0.003707		0.0100				0.9990		0.9900
3 & 4 Methylphenol	1.1649	1.0432	1.0306	1.3956 1.0639	1.3059	Ave		1.1674				13.1		20.0			
4-Methylphenol	1.1649	1.0432	1.0306	1.3956 1.0639	1.3059	Ave		1.1674			0.6000	13.1		20.0			
Acetophenone	1.4501	1.2969	1.2826	1.7353 1.3441	1.6317	Ave		1.4568			0.0100	12.9		20.0			
N-Nitrosodi-n-propylamine	1.0538 0.7174	0.9886 0.6808	1.0232 0.6781	0.8762 0.6706	0.8269	Ave		0.8351			0.5000	18.8		20.0			
Hexachloroethane	0.6811 0.6004	0.6781 0.5266	0.6927 0.4973	0.6504 0.5161	0.6561	Ave		0.6110			0.3000	12.8		20.0			
Nitrobenzene	0.6166 0.5016	0.6154 0.4468	0.6128 0.4239	0.5738 0.4542	0.5510	Ave		0.5329			0.2000	14.6		20.0			
n,n'-Dimethylaniline	2.4723 1.9028	2.3967 1.7147	2.4154 1.6022	2.2446 1.6881	2.1077	Ave		2.0605				16.6		20.0			
Isophorone	0.6363	0.5936	0.7560 0.5760	0.6868 0.6009	0.6954	Ave		0.6493			0.4000	10.1		20.0			
2-Nitrophenol	0.2133	0.1866	0.1911	0.2070 0.1916	0.2150	Ave		0.2008			0.1000	6.2		20.0			
2,4-Dimethylphenol	0.3452	0.3046	0.2940	0.3641 0.3017	0.3723	Ave		0.3303			0.2000	10.4		20.0			
Bis(2-chloroethoxy)methane	0.3611	0.3189	0.3012	0.4019 0.3074	0.3927	Ave		0.3472			0.3000	12.7		20.0			
Benzoic acid	0.1411	0.1326	0.1490	0.0882 0.1663	0.1157	Lin2	-0.343	0.1545			0.0100				0.9940		0.9900
2,4-Dichlorophenol	0.3638	0.3341	0.3463 0.3123	0.3497 0.3220	0.3723	Ave		0.3429			0.2000	6.3		20.0			
1,2,4-Trichlorobenzene	0.4546 0.4125	0.4483 0.3896	0.4379 0.3692	0.4270 0.3944	0.4283	Ave		0.4180				6.9		20.0			
Naphthalene	1.0980	0.9732	0.9302	1.1733 0.9751	1.1806	Ave		1.0551			0.7000	10.4		20.0			
4-Chloroaniline	0.4202	0.3663	0.3514	0.4558 0.3658	0.4649	Ave		0.4041			0.0100	12.3		20.0			
Hexachlorobutadiene	0.2891 0.2844	0.2832 0.2831	0.2759 0.2800	0.2987	0.2843	Ave		0.2848			0.0100	2.4		20.0			
4-Chloro-3-methylphenol	0.2855	0.2533	0.2389	0.2949 0.2438	0.3017	Ave		0.2697			0.2000	10.2		20.0			
2-Methylnaphthalene	0.7646	0.6747	0.6455	0.8228 0.6617	0.8058	Ave		0.7292			0.4000	10.7		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 Edison Job No.: 460-112069-1 Analy Batch No.: 361914
SDG No.: _____
Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 04/11/2016 13:47 Calibration End Date: 04/11/2016 17:01 Calibration ID: 55291

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
1-Methylnaphthalene	0.6576	0.5839	0.5487	0.7024 0.5646	0.6987	Ave		0.6260				11.0		20.0			
Hexachlorocyclopentadiene	0.5737	0.6231	0.6298	0.4638 0.6810	0.5377	Ave		0.5848			0.0500	13.2		20.0			
1,2,4,5-Tetrachlorobenzene	0.7553	0.7672	0.7790	0.7449 0.8444	0.7781	Ave		0.7781			0.0100	4.5		20.0			
2-tertbutyl-4-methylphenol	0.4907	0.4501	0.4086	0.5539 0.4360	0.5266	Ave		0.4777				11.7		20.0			
2,4,6-Trichlorophenol	0.4349	0.4218	0.3984 0.4299	0.4239 0.4749	0.4356	Ave		0.4313			0.2000	5.3		20.0			
2,4,5-Trichlorophenol	0.4598	0.4327	0.4175	0.4342 0.4231	0.4597	Ave		0.4378			0.2000	4.1		20.0			
1,1'-Biphenyl	1.7193	1.5724	1.5169	1.7978 1.5978	1.8337	Ave		1.6730			0.0100	7.7		20.0			
2-Chloronaphthalene	1.3153	1.1948	1.1538	1.3387 1.2012	1.3584	Ave		1.2604			0.8000	6.9		20.0			
Phenyl ether	0.9458	0.8948	0.8161	0.9787 0.8859	0.9553	Ave		0.9128				6.5		20.0			
2-Nitroaniline	0.3993	0.3704	0.3533	0.3933 0.3694	0.4146	Ave		0.3834			0.0100	5.9		20.0			
1,3-Dimethylnaphthalene	1.0561	1.0040	0.8663	1.1695 0.9310	1.1136	Ave		1.0234				11.1		20.0			
Dimethyl phthalate	1.2133	1.1082	1.0693	1.2471 1.0862	1.2745	Ave		1.1664			0.0100	7.6		20.0			
Coumarin	0.1848	0.1668	0.1490	0.2054 0.1531	0.1971	Ave		0.1760				13.3		20.0			
2,6-Dinitrotoluene	0.2735	0.2517 0.2547	0.2634 0.2457	0.2679 0.2468	0.2829	Ave		0.2608			0.2000	5.1		20.0			
Acenaphthylene	1.8009	1.6571	1.5678	1.9057 1.6362	1.9210	Ave		1.7481			0.9000	8.5		20.0			
3-Nitroaniline	0.2697	0.2487	0.2464	0.2715 0.2511	0.2789	Ave		0.2610			0.0100	5.3		20.0			
3,5-di-tert-butyl-4-hydroxytol	1.4374	1.4988	1.3981	1.4297 1.5318	1.4073	Ave		1.4505				3.7		20.0			
Acenaphthene	1.2540	1.0612	1.0112	1.2740 1.0538	1.3115	Ave		1.1609			0.9000	11.4		20.0			
2,4-Dinitrophenol	0.1165	0.1174	0.0432 0.1342	0.0685 0.1419	0.0979	Qua	-0.346	0.1134	0.0001267		0.0100				0.9990		0.9900
4-Nitrophenol	0.1571	0.1494	0.1532	0.1401 0.1630	0.1633	Ave		0.1544			0.0100	5.7		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 Edison Job No.: 460-112069-1 Analy Batch No.: 361914
SDG No.: _____
Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 04/11/2016 13:47 Calibration End Date: 04/11/2016 17:01 Calibration ID: 55291

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
2,4-Dinitrotoluene	0.3187	0.2545 0.2858	0.2833 0.2846	0.2934 0.2902	0.3307	Ave		0.2927			0.2000	7.9		20.0			
Dibenzofuran	1.7281	1.5499	1.5079	1.7983 1.5511	1.8259	Ave		1.6602			0.8000	8.5		20.0			
2,3,4,6-Tetrachlorophenol	0.3474	0.3281	0.3452	0.3030 0.3627	0.3353	Ave		0.3370			0.0100	6.0		20.0			
Diethyl phthalate	1.0635	0.9499	0.9054	1.0981 0.9180	1.1240	Ave		1.0098			0.0100	9.6		20.0			
4-Chlorophenyl phenyl ether	0.6823	0.6593	0.6497	0.6866 0.6979	0.7183	Ave		0.6824			0.4000	3.7		20.0			
Fluorene	1.2004	1.0985	1.0967	1.3118 1.1627	1.3032	Ave		1.1955			0.9000	8.0		20.0			
4-Nitroaniline	0.2143	0.1978	0.2020	0.2008 0.2090	0.2202	Ave		0.2073			0.0100	4.2		20.0			
4,6-Dinitro-2-methylphenol	0.1169	0.1177	0.0591 0.1286	0.0864 0.1346	0.1072	Lin2	-0.285	0.1253			0.0100				0.9960		0.9900
N-Nitrosodiphenylamine	0.6316	0.5863	0.7094 0.5793	0.6651 0.6103	0.6641	Ave		0.6352			0.0100	7.4		20.0			
1,2-Diphenylhydrazine	0.7498	0.6668	0.6417	0.7895 0.6394	0.7949	Ave		0.7137				10.2		20.0			
4-Bromophenyl phenyl ether	0.3182	0.3147	0.3279	0.2951 0.3481	0.3048	Ave		0.3181			0.1000	5.8		20.0			
Hexachlorobenzene	0.3560 0.3884	0.3363 0.4033	0.3413 0.4220	0.3559 0.4514	0.3703	Ave		0.3805			0.1000	10.2		20.0			
Pentachlorophenol	0.1890	0.2006	0.1292 0.2143	0.1614 +++++	0.1761	Ave		0.1784			0.0500	17.0		20.0			
Pentachloronitrobenzene	0.1268	0.1280	0.1127	0.1152 0.1207	0.1203	Ave		0.1206			0.0100	5.1		20.0			
n-Octadecane	0.5346	0.4552	0.4426	0.5741 0.4658	0.5731	Ave		0.5076				11.9		20.0			
Phenanthrene	1.1592	1.0671	1.0535	1.1690 1.0875	1.1818	Ave		1.1197			0.7000	5.1		20.0			
Anthracene	1.1549	1.0943	1.0589	1.1801 1.0840	1.2028	Ave		1.1292			0.7000	5.1		20.0			
Carbazole	0.8620	0.7823	0.7743	0.8823 0.7934	0.9039	Ave		0.8330			0.0100	6.8		20.0			
Di-n-butyl phthalate	0.9899	0.9366	0.9104	0.9987 0.9381	1.0242	Ave		0.9663			0.0100	4.6		20.0			
Fluoranthene	0.9696	0.9533	0.9560	0.9654 0.9846	0.9905	Ave		0.9699			0.6000	1.5		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 Edison Job No.: 460-112069-1 Analy Batch No.: 361914
SDG No.: _____
Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 04/11/2016 13:47 Calibration End Date: 04/11/2016 17:01 Calibration ID: 55291

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Benzidine	0.3083	0.3544	0.4292	0.3103 0.4552	0.2966	Ave		0.3590				18.9		20.0			
Pyrene	1.6111	1.4729	1.4589	1.5993 1.4885	1.6231	Ave		1.5423			0.6000	5.0		20.0			
Bisphenol-A	0.3344	0.4451	0.4719	0.2250 0.5036	0.2905	Qua	-1.533	0.4363	0.0006716						1.0000		0.9900
Butyl benzyl phthalate	0.4908	0.4545	0.4540	0.4423 0.4783	0.4885	Ave		0.4681			0.0100	4.4		20.0			
2,3,7,8-TCDD		0.2453				Ave		0.2453						20.0			
Carbamazepine	0.3442	0.3769	0.4013	0.2469 0.4523	0.3048	Lin2	-0.908	0.4136			0.0100				0.9930		0.9900
3,3'-Dichlorobenzidine	0.3939	0.4148	0.2932 0.4642	0.3400 0.4871	0.3696	Ave		0.3947			0.0100	17.2		20.0			
Benzo[a]anthracene	1.3300 1.1309	1.1782 1.1260	1.1058 1.1435	1.0579 1.2134	1.1360	Ave		1.1580			0.8000	6.7		20.0			
Bis(2-ethylhexyl) phthalate	0.6342	0.5902	0.6014	0.5829 0.6348	0.6309	Ave		0.6124			0.0100	3.9		20.0			
Chrysene	1.0562	1.0097	1.0300	1.0068 1.1129	1.0543	Ave		1.0450			0.7000	3.8		20.0			
Di-n-octyl phthalate	1.0963	1.0484	1.0612	0.9136 1.0744	1.0225	Ave		1.0361			0.0100	6.3		20.0			
Benzo[b]fluoranthene	0.9503 1.0930	0.9511 1.0976	0.9548 1.1099	1.0202 1.2113	1.0838	Ave		1.0524			0.7000	8.5		20.0			
Benzo[k]fluoranthene	1.0866 1.1703	1.0997 1.1339	1.1213 1.1547	1.0642 1.2245	1.1236	Ave		1.1310			0.7000	4.2		20.0			
Benzo[a]pyrene	0.7781 0.9995	0.8380 0.9942	0.9055 1.0298	0.8919 1.1104	0.9619	Ave		0.9455			0.7000	10.8		20.0			
Indeno[1,2,3-cd]pyrene	0.6783 0.8600	0.6432 0.9762	0.7010 0.9869	0.7634 +++++	0.8372	Ave		0.8058			0.5000	16.3		20.0			
Dibenz(a,h)anthracene	0.7312 0.9489	0.7089 1.0072	0.7543 1.0480	0.7732 1.1150	0.8839	Ave		0.8856			0.4000	17.1		20.0			
Benzo[g,h,i]perylene	0.9639	1.0488	1.0747	0.8193 1.1449	0.8987	Ave		0.9917			0.5000	12.2		20.0			
2-Fluorophenol (Surr)	1.3681	1.4520 1.3399	1.7195 1.2288	1.5702 1.4307	1.5020	Ave		1.4514				10.3		20.0			
Phenol-d5 (Surr)	1.5573	1.6666 1.4983	2.0282 1.3670	1.8484 1.5441	1.7460	Ave		1.6570				12.8		20.0			
Nitrobenzene-d5 (Surr)	0.3754 0.4058	0.4245 0.4001	0.4962 0.3620	0.4656 0.4089	0.4469	Ave		0.4206				10.2		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 Edison Job No.: 460-112069-1 Analy Batch No.: 361914

SDG No.: _____

Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2016 13:47 Calibration End Date: 04/11/2016 17:01 Calibration ID: 55291

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9													
2-Fluorobiphenyl	1.7100 1.5701	1.6329 1.6147	1.9106 1.5260	1.7991 1.7710	1.7307	Ave		1.6961				7.2		20.0			
2,4,6-Tribromophenol (Surr)	0.2976	++++ 0.3486	0.2800 0.3478	0.3059 0.4236	0.3045	Ave		0.3297				14.8		20.0			
Terphenyl-d14 (Surr)	1.1194 1.1906	1.1593 1.2768	1.3022 1.2002	1.2223 1.4520	1.2421	Ave		1.2406				7.8		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 Edison Job No.: 460-112069-1 Analy Batch No.: 361914

SDG No.: _____

Instrument ID: CBNAM5 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2016 13:47 Calibration End Date: 04/11/2016 17:01 Calibration ID: 55291

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD05 460-361914/10	x12700.D
Level 2	STD1 460-361914/9	x12699.D
Level 3	STD2 460-361914/8	x12698.D
Level 4	STD5 460-361914/7	x12697.D
Level 5	STD10 460-361914/6	x12696.D
Level 6	STD20 460-361914/5	x12695.D
Level 7	ICIS 460-361914/2	x12692.D
Level 8	STD80 460-361914/4	x12694.D
Level 9	STD120 460-361914/3	x12693.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,4-Dioxane	DCB	Ave	281507	566841	879976	75817 1224214	151836	20.0	50.0	80.0	5.00 120	10.0
N-Nitrosodimethylamine	DCB	Ave	394009	772871	1221429	107028 1669340	211795	20.0	50.0	80.0	5.00 120	10.0
Pyridine	DCB	Ave	676953	1297546	2084539	184751 2929279	368378	20.0	50.0	80.0	5.00 120	10.0
Phenol	DCB	Ave	897059	1648133	2526326	256765 3428046	498095	20.0	50.0	80.0	5.00 120	10.0
Aniline	DCB	Ave	1069931	2099242	3209371	300139 4182159	586615	20.0	50.0	80.0	5.00 120	10.0
Bis(2-chloroethyl)ether	DCB	Ave	21887 644615	42993 1189836	80795 1836092	188793 2614245	360911	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
2-Chlorophenol	DCB	Ave	777095	1455688	2232517	217132 2929826	432333	20.0	50.0	80.0	5.00 120	10.0
n-Decane	DCB	Ave	947896	1654401	2468567	301529 +++++	565465	20.0	50.0	80.0	5.00 +++++	10.0
1,3-Dichlorobenzene	DCB	Ave	967450	1854733	2846042	273002 3945489	529184	20.0	50.0	80.0	5.00 120	10.0
1,4-Dichlorobenzene	DCB	Ave	942113	1821661	2797352	269188 3907093	517587	20.0	50.0	80.0	5.00 120	10.0
Benzyl alcohol	DCB	Ave	459141	929820	1465861	132815 1910135	256439	20.0	50.0	80.0	5.00 120	10.0
1,2-Dichlorobenzene	DCB	Ave	915786	1728457	2607051	259479 3578341	502043	20.0	50.0	80.0	5.00 120	10.0
2-Methylphenol	DCB	Ave	680233	1275021	1914693	196664 2528229	372616	20.0	50.0	80.0	5.00 120	10.0
2,2'-oxybis[1-chloropropane]	DCB	Qua	1121820	2031004	2873480	338124 3503298	641874	20.0	50.0	80.0	5.00 120	10.0

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

Lab Name: TestAmerica Edison Job No.: 460-112069-1 Analy Batch No.: 361914

SDG No.: _____

Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2016 13:47 Calibration End Date: 04/11/2016 17:01 Calibration ID: 55291

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
3 & 4 Methylphenol	DCB	Ave	627633	1209595	1898946	201493 2618500	362574	20.0	50.0	80.0	5.00 120	10.0
4-Methylphenol	DCB	Ave	627633	1209595	1898946	201493 2618500	362574	20.0	50.0	80.0	5.00 120	10.0
Acetophenone	DCB	Ave	781284	1503782	2363210	250551 3308064	453023	20.0	50.0	80.0	5.00 120	10.0
N-Nitrosodi-n-propylamine	DCB	Ave	15636 386520	28045 789375	56633 1249429	126504 1650462	229575	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Hexachloroethane	DCB	Ave	10106 323478	19236 610550	38338 916252	93909 1270188	182159	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Nitrobenzene	NPT	Ave	31417 903815	59337 1690835	117375 2585398	281499 3606577	514923	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
n,n'-Dimethylaniline	DCB	Ave	36685 1025197	67989 1988196	133689 2952113	324088 4154866	585175	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Isophorone	NPT	Ave	1146451	2246670	3512886	144805 4771623	649869	20.0	50.0	2.00 80.0	5.00 120	10.0
2-Nitrophenol	NPT	Ave	384349	706088	1165394	101546 1521349	200947	20.0	50.0	80.0	5.00 120	10.0
2,4-Dimethylphenol	NPT	Ave	622030	1152756	1793068	178651 2395716	347908	20.0	50.0	80.0	5.00 120	10.0
Bis(2-chloroethoxy)methane	NPT	Ave	650562	1207058	1836998	197192 2441102	366953	20.0	50.0	80.0	5.00 120	10.0
Benzoic acid	NPT	Lin2	254226	501735	908566	43251 1320500	108131	20.0	50.0	80.0	5.00 120	10.0
2,4-Dichlorophenol	NPT	Ave	655429	1264298	1905068	66332 171551	347879	20.0	50.0	2.00 80.0	5.00 120	10.0
1,2,4-Trichlorobenzene	NPT	Ave	23161 743151	43222 1474450	83890 2252128	209486 3131341	400283	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Naphthalene	NPT	Ave	1978312	3683379	5673719	575646 7742481	1103206	20.0	50.0	80.0	5.00 120	10.0
4-Chloroaniline	NPT	Ave	757089	1386246	2143536	223634 2904503	434409	20.0	50.0	80.0	5.00 120	10.0
Hexachlorobutadiene	NPT	Ave	512474	27869 1071286	54240 1707721	135378 2371721	265641	20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
4-Chloro-3-methylphenol	NPT	Ave	514373	958803	1457266	144676 1935841	281933	20.0	50.0	80.0	5.00 120	10.0
2-Methylnaphthalene	NPT	Ave	1377584	2553612	3937243	403681 5254357	753034	20.0	50.0	80.0	5.00 120	10.0
1-Methylnaphthalene	NPT	Ave	1184928	2209739	3346387	344604 4483140	652900	20.0	50.0	80.0	5.00 120	10.0
Hexachlorocyclopentadiene	ANT	Ave	531221	1182450	1895029	121020 2600135	264247	20.0	50.0	80.0	5.00 120	10.0

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

Lab Name: TestAmerica Edison Job No.: 460-112069-1 Analy Batch No.: 361914

SDG No.: _____

Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2016 13:47 Calibration End Date: 04/11/2016 17:01 Calibration ID: 55291

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
1,2,4,5-Tetrachlorobenzene	ANT	Ave	699412	1455818	2344261	194362 3224001	382398	20.0	50.0	80.0	5.00 120	10.0
2-tertbutyl-4-methylphenol	NPT	Ave	884210	1703629	2492231	271760 3462341	492130	20.0	50.0	80.0	5.00 120	10.0
2,4,6-Trichlorophenol	ANT	Ave	402739	800398	40474 1293751	110611 1813150	214072	20.0	50.0	2.00 80.0	5.00 120	10.0
2,4,5-Trichlorophenol	ANT	Ave	425757	821005	1256464	113287 1615662	225942	20.0	50.0	80.0	5.00 120	10.0
1,1'-Biphenyl	ANT	Ave	1592109	2983795	4564730	469081 6100735	901199	20.0	50.0	80.0	5.00 120	10.0
2-Chloronaphthalene	ANT	Ave	1218051	2267212	3471950	349274 4586414	667635	20.0	50.0	80.0	5.00 120	10.0
Phenyl ether	ANT	Ave	875805	1698014	2455870	255363 3382563	469479	20.0	50.0	80.0	5.00 120	10.0
2-Nitroaniline	ANT	Ave	369753	702802	1063241	102616 1410499	203744	20.0	50.0	80.0	5.00 120	10.0
1,3-Dimethylnaphthalene	ANT	Ave	978027	1905173	2606721	305143 3554751	547320	20.0	50.0	80.0	5.00 120	10.0
Dimethyl phthalate	ANT	Ave	1123589	2102855	3217811	325385 4147409	626358	20.0	50.0	80.0	5.00 120	10.0
Coumarin	NPT	Ave	332906	631331	908735	100750 1215427	184227	20.0	50.0	80.0	5.00 120	10.0
2,6-Dinitrotoluene	ANT	Ave	253304	13088 483282	26759 739232	69910 942437	139059	20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Acenaphthylene	ANT	Ave	1667739	3144368	4717729	497218 6247465	944107	20.0	50.0	80.0	5.00 120	10.0
3-Nitroaniline	ANT	Ave	249750	471925	741443	70827 958604	137079	20.0	50.0	80.0	5.00 120	10.0
3,5-di-tert-butyl-4-hydroxytol	ANT	Ave	1331036	2844123	4207121	373023 5848994	691664	20.0	50.0	80.0	5.00 120	10.0
Acenaphthene	ANT	Ave	1161202	2013617	3042842	332398 4023818	644564	20.0	50.0	80.0	5.00 120	10.0
2,4-Dinitrophenol	ANT	Qua	215846	445404	8782 807487	35762 1083808	96238	40.0	100	4.00 160	10.0 240	20.0
4-Nitrophenol	ANT	Ave	290949	566913	922102	73125 1244420	160556	40.0	100	160	10.0 240	20.0
2,4-Dinitrotoluene	ANT	Ave	295135	13232 542417	28789 856474	76542 1108033	162553	20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Dibenzofuran	ANT	Ave	1600284	2941042	4537380	469206 5922614	897381	20.0	50.0	80.0	5.00 120	10.0
2,3,4,6-Tetrachlorophenol	ANT	Ave	321704	622606	1038720	79056 1384824	164807	20.0	50.0	80.0	5.00 120	10.0

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

Lab Name: TestAmerica Edison Job No.: 460-112069-1 Analy Batch No.: 361914

SDG No.: _____

Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2016 13:47 Calibration End Date: 04/11/2016 17:01 Calibration ID: 55291

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Diethyl phthalate	ANT	Ave	984864	1802587	2724515	286500 3505030	552392	20.0	50.0	80.0	5.00 120	10.0
4-Chlorophenyl phenyl ether	ANT	Ave	631864	1250990	1955204	179138 2664938	353016	20.0	50.0	80.0	5.00 120	10.0
Fluorene	ANT	Ave	1111594	2084415	3300045	342267 4439675	640467	20.0	50.0	80.0	5.00 120	10.0
4-Nitroaniline	ANT	Ave	198429	375302	607712	52384 797889	108199	20.0	50.0	80.0	5.00 120	10.0
4,6-Dinitro-2-methylphenol	PHN	Lin2	291596	587751	16497 1016853	62255 1346616	145036	40.0	100	4.00 160	10.0 240	20.0
N-Nitrosodiphenylamine	PHN	Ave	1575757	2927491	197863 4578634	479133 6107824	898072	40.0	100	4.00 160	10.0 240	20.0
1,2-Diphenylhydrazine	PHN	Ave	935237	1664589	2536266	284383 3199455	537501	20.0	50.0	80.0	5.00 120	10.0
4-Bromophenyl phenyl ether	PHN	Ave	396929	785685	1295823	106306 1741764	206110	20.0	50.0	80.0	5.00 120	10.0
Hexachlorobenzene	PHN	Ave	13478 484511	24519 1006934	47595 1667896	128201 2258903	250362	0.500 20.0	1.00 50.0	2.00 80.0	5.00 120	10.0
Pentachlorophenol	PHN	Ave	471525	1001709	36033 1694044	116252 +++++	238105	40.0	100	4.00 160	10.0 +++++	20.0
Pentachloronitrobenzene	PHN	Ave	158223	319598	445352	41505 604007	81358	20.0	50.0	80.0	5.00 120	10.0
n-Octadecane	PHN	Ave	666820	1136380	1749400	206813 2330643	387520	20.0	50.0	80.0	5.00 120	10.0
Phenanthrene	PHN	Ave	1445948	2664108	4163618	421085 5441450	799104	20.0	50.0	80.0	5.00 120	10.0
Anthracene	PHN	Ave	1440619	2731937	4185156	425092 5424075	813281	20.0	50.0	80.0	5.00 120	10.0
Carbazole	PHN	Ave	1075243	1953098	3060163	317836 3970106	611177	20.0	50.0	80.0	5.00 120	10.0
Di-n-butyl phthalate	PHN	Ave	1234698	2338157	3598146	359765 4694059	692537	20.0	50.0	80.0	5.00 120	10.0
Fluoranthene	PHN	Ave	1209493	2379937	3778376	347763 4926801	669753	20.0	50.0	80.0	5.00 120	10.0
Benzidine	PHN	Ave	384590	884757	1696183	111778 2277733	200554	20.0	50.0	80.0	5.00 120	10.0
Pyrene	CRY	Ave	1212125	2349757	3737075	347617 4932006	652635	20.0	50.0	80.0	5.00 120	10.0
Bisphenol-A	CRY	Qua	251602	710051	1208780	48904 1668672	116812	20.0	50.0	80.0	5.00 120	10.0
Butyl benzyl phthalate	CRY	Ave	369257	725085	1163075	96136 1584703	196419	20.0	50.0	80.0	5.00 120	10.0

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

Lab Name: TestAmerica Edison Job No.: 460-112069-1 Analy Batch No.: 361914

SDG No.: _____

Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2016 13:47 Calibration End Date: 04/11/2016 17:01 Calibration ID: 55291

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
2,3,7,8-TCDD	CRY	Ave		3913					0.500			
Carbamazepine	CRY	Lin2				53659	122570				5.00	10.0
			258986	601319	1028006	1498766		20.0	50.0	80.0	120	
3,3'-Dichlorobenzidine	CRY	Ave			23216	73902	148618			2.00	5.00	10.0
			296363	661727	1188989	1614011		20.0	50.0	80.0	120	
Benzo[a]anthracene	CRY	Ave	27989	48386	87563	229936	456765	0.500	1.00	2.00	5.00	10.0
			850805	1796227	2929145	4020370		20.0	50.0	80.0	120	
Bis(2-ethylhexyl) phthalate	CRY	Ave				126694	253670				5.00	10.0
			477152	941608	1540491	2103385		20.0	50.0	80.0	120	
Chrysene	CRY	Ave				218824	423922				5.00	10.0
			794672	1610710	2638437	3687609		20.0	50.0	80.0	120	
Di-n-octyl phthalate	PRY	Ave				149302	324696				5.00	10.0
			666411	1440850	2469700	3363316		20.0	50.0	80.0	120	
Benzo[b]fluoranthene	PRY	Ave	15118	29739	56593	166733	344158	0.500	1.00	2.00	5.00	10.0
			664374	1508434	2582982	3792155		20.0	50.0	80.0	120	
Benzo[k]fluoranthene	PRY	Ave	17287	34387	66463	173911	356784	0.500	1.00	2.00	5.00	10.0
			711366	1558290	2687180	3833307		20.0	50.0	80.0	120	
Benzo[a]pyrene	PRY	Ave	12379	26202	53673	145760	305451	0.500	1.00	2.00	5.00	10.0
			607541	1366363	2396509	3476191		20.0	50.0	80.0	120	
Indeno[1,2,3-cd]pyrene	PRY	Ave	10791	20113	41550	124760	265853	0.500	1.00	2.00	5.00	10.0
			522797	1341551	2296660	+++++		20.0	50.0	80.0	+++++	
Dibenz(a,h)anthracene	PRY	Ave	11633	22166	44712	126367	280679	0.500	1.00	2.00	5.00	10.0
			576822	1384172	2438898	3490523		20.0	50.0	80.0	120	
Benzo[g,h,i]perylene	PRY	Ave				133887	285369				5.00	10.0
			585921	1441333	2500992	3584209		20.0	50.0	80.0	120	
2-Fluorophenol (Surr)	DCB	Ave		41191	95172	226716	416996		1.00	2.00	5.00	10.0
			737086	1553533	2263985	3521221		20.0	50.0	80.0	120	
Phenol-d5 (Surr)	DCB	Ave		47278	112260	266878	484752		1.00	2.00	5.00	10.0
			839037	1737286	2518752	3800316		20.0	50.0	80.0	120	
Nitrobenzene-d5 (Surr)	NPT	Ave	19124	40930	95048	228451	417628	0.500	1.00	2.00	5.00	10.0
			731090	1514089	2208112	3246486		20.0	50.0	80.0	120	
2-Fluorobiphenyl	ANT	Ave	46593	84898	194117	469398	850602	0.500	1.00	2.00	5.00	10.0
			1453985	3063995	4592109	6762147		20.0	50.0	80.0	120	
2,4,6-Tribromophenol (Surr)	ANT	Ave		+++++	28447	79826	149656		+++++	2.00	5.00	10.0
			275573	661504	1046583	1617583		20.0	50.0	80.0	120	
Terphenyl-d14 (Surr)	CRY	Ave	23557	47610	103120	265667	499443	0.500	1.00	2.00	5.00	10.0
			895741	2036865	3074415	4811173		20.0	50.0	80.0	120	

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

Lab Name: TestAmerica Edison Job No.: 460-112069-1 Analy Batch No.: 361914
SDG No.: _____
Instrument ID: CBNAMS5 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 04/11/2016 13:47 Calibration End Date: 04/11/2016 17:01 Calibration ID: 55291

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12692.D
 Lims ID: icis
 Client ID:
 Sample Type: ICIS Calib Level: 7
 Inject. Date: 11-Apr-2016 13:47:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039684-002
 Misc. Info.: ICIS
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub37
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:58:40 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 15:13:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.818	1.818	0.000	97	566841	50.0	48.0	
2 N-Nitrosodimethylamine	74	2.053	2.053	0.000	64	772871	50.0	47.1	
3 Pyridine	79	2.089	2.089	0.000	80	1297546	50.0	46.0	
\$ 4 2-Fluorophenol	112	3.218	3.218	0.000	94	1553533	50.0	46.2	
\$ 6 Phenol-d5	99	4.142	4.142	0.000	95	1737286	50.0	45.2	
7 Phenol	94	4.159	4.159	0.000	98	1648133	50.0	45.3	
8 Aniline	93	4.183	4.183	0.000	98	2099242	50.0	47.5	
9 Bis(2-chloroethyl)ether	93	4.247	4.247	0.000	95	1189836	50.0	40.7	
10 Benzonitrile	103	4.277	4.277	0.000	66	2655625	NC	NC	
11 2-Chlorophenol	128	4.306	4.306	0.000	94	1455688	50.0	46.2	
12 n-Decane	43	4.353	4.353	0.000	88	1654401	50.0	41.2	
13 1,3-Dichlorobenzene	146	4.459	4.459	0.000	95	1854733	50.0	46.4	
* 14 1,4-Dichlorobenzene-d4	152	4.512	4.512	0.000	97	927586	40.0	40.0	
15 1,4-Dichlorobenzene	146	4.530	4.530	0.000	94	1821661	50.0	46.4	
16 Benzyl alcohol	108	4.647	4.647	0.000	91	929820	50.0	47.5	
17 1,2-Dichlorobenzene	146	4.683	4.683	0.000	95	1728457	50.0	46.3	
18 2-Methylphenol	108	4.759	4.759	0.000	88	1275021	50.0	46.3	
19 2,2'-oxybis[1-chloropropan	45	4.783	4.783	0.000	89	2031004	50.0	50.7	
20 N-Methylaniline	106	4.906	4.906	0.000	84	1942331	NC	NC	
24 4-Methylphenol	108	4.918	4.918	0.000	85	1209595	50.0	44.7	
21 Acetophenone	105	4.918	4.918	0.000	94	1503782	50.0	44.5	
23 3 & 4 Methylphenol	108	4.918	4.918	0.000	84	1209595	50.0	44.7	
22 N-Nitrosodi-n-propylamine	70	4.924	4.924	0.000	95	789375	50.0	40.8	
25 Hexachloroethane	117	5.024	5.024	0.000	85	610550	50.0	43.1	
\$ 26 Nitrobenzene-d5	82	5.071	5.071	0.000	94	1514089	50.0	47.6	
28 Nitrobenzene	77	5.094	5.094	0.000	87	1690835	50.0	41.9	
27 n,n'-Dimethylaniline	120	5.094	5.094	0.000	95	1988196	50.0	41.6	
31 Isophorone	82	5.336	5.336	0.000	96	2246670	50.0	45.7	
32 2-Nitrophenol	139	5.406	5.406	0.000	85	706088	50.0	46.5	
33 2,4-Dimethylphenol	122	5.447	5.447	0.000	88	1152756	50.0	46.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Bis(2-chloroethoxy)methane	93	5.541	5.541	0.000	97	1207058	50.0	45.9	
35 Benzoic acid	122	5.577	5.577	0.000	91	501735	50.0	45.1	
36 2,4-Dichlorophenol	162	5.647	5.647	0.000	94	1264298	50.0	48.7	
37 1,2,4-Trichlorobenzene	180	5.736	5.736	0.000	94	1474450	50.0	46.6	
* 38 Naphthalene-d8	136	5.794	5.794	0.000	100	3027697	40.0	40.0	
39 Naphthalene	128	5.812	5.812	0.000	99	3683379	50.0	46.1	
40 4-Chloroaniline	127	5.865	5.865	0.000	95	1386246	50.0	45.3	
41 Hexachlorobutadiene	225	5.941	5.941	0.000	97	1071286	50.0	49.7	
43 4-Chloro-3-methylphenol	107	6.347	6.347	0.000	96	958803	50.0	47.0	
44 2-Methylnaphthalene	142	6.506	6.506	0.000	85	2553612	50.0	46.3	
45 1-Methylnaphthalene	142	6.606	6.606	0.000	93	2209739	50.0	46.6	
46 Hexachlorocyclopentadiene	237	6.671	6.671	0.000	98	1182450	50.0	53.3	
47 1,2,4,5-Tetrachlorobenzene	216	6.677	6.677	0.000	98	1455818	50.0	49.3	
48 2-tertbutyl-4-methylphenol	149	6.700	6.700	0.000	91	1703629	50.0	47.1	
49 2,4,6-Trichlorophenol	196	6.788	6.788	0.000	93	800398	50.0	48.9	
50 2,4,5-Trichlorophenol	196	6.818	6.818	0.000	96	821005	50.0	49.4	
\$ 51 2-Fluorobiphenyl	172	6.871	6.871	0.000	98	3063995	50.0	47.6	
52 1,1'-Biphenyl	154	6.971	6.971	0.000	94	2983795	50.0	47.0	
53 2-Chloronaphthalene	162	6.994	6.994	0.000	98	2267212	50.0	47.4	
54 Phenyl ether	170	7.077	7.077	0.000	87	1698014	50.0	49.0	
56 2-Nitroaniline	65	7.088	7.088	0.000	94	702802	50.0	48.3	
57 1,3-Dimethylnaphthalene	156	7.212	7.212	0.000	93	1905173	50.0	49.1	
58 Dimethyl phthalate	163	7.277	7.277	0.000	99	2102855	50.0	47.5	
59 Coumarin	146	7.300	7.300	0.000	75	631331	50.0	47.4	
60 2,6-Dinitrotoluene	165	7.330	7.330	0.000	94	483282	50.0	48.8	
61 Acenaphthylene	152	7.406	7.406	0.000	97	3144368	50.0	47.4	
64 3-Nitroaniline	138	7.500	7.500	0.000	94	471925	50.0	47.6	
* 65 Acenaphthene-d10	164	7.541	7.541	0.000	91	1518049	40.0	40.0	
66 3,5-di-tert-butyl-4-hydrox	205	7.565	7.565	0.000	95	2844123	50.0	51.7	
67 Acenaphthene	154	7.577	7.577	0.000	92	2013617	50.0	45.7	
68 2,4-Dinitrophenol	184	7.600	7.600	0.000	90	445404	100.0	96.2	
69 4-Nitrophenol	65	7.659	7.659	0.000	88	566913	100.0	96.8	
70 2,4-Dinitrotoluene	165	7.730	7.730	0.000	96	542417	50.0	48.8	
71 Dibenzofuran	168	7.747	7.747	0.000	95	2941042	50.0	46.7	
72 2,3,4,6-Tetrachlorophenol	232	7.865	7.865	0.000	97	622606	50.0	48.7	
73 Diethyl phthalate	149	7.971	7.971	0.000	98	1802587	50.0	47.0	
74 4-Chlorophenyl phenyl ethe	204	8.082	8.082	0.000	94	1250990	50.0	48.3	
75 Fluorene	166	8.082	8.082	0.000	95	2084415	50.0	45.9	
76 4-Nitroaniline	138	8.106	8.106	0.000	84	375302	50.0	47.7	
77 4,6-Dinitro-2-methylphenol	198	8.135	8.135	0.000	91	587751	100.0	96.2	
78 N-Nitrosodiphenylamine	169	8.200	8.200	0.000	66	2927491	100.0	92.3	
79 1,2-Diphenylhydrazine	77	8.241	8.241	0.000	93	1664589	50.0	46.7	
\$ 80 2,4,6-Tribromophenol	330	8.324	8.324	0.000	89	661504	50.0	52.9	
81 4-Bromophenyl phenyl ether	248	8.565	8.565	0.000	95	785685	50.0	49.5	
83 Hexachlorobenzene	284	8.635	8.635	0.000	92	1006934	50.0	53.0	
85 Pentachlorophenol	266	8.824	8.824	0.000	96	1001709	100.0	112.4	
86 Pentachloronitrobenzene	237	8.841	8.841	0.000	94	319598	50.0	53.1	
87 n-Octadecane	57	8.900	8.900	0.000	97	1136380	50.0	44.8	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	1997195	40.0	40.0	
89 Phenanthrene	178	9.029	9.029	0.000	96	2664108	50.0	47.7	
90 Anthracene	178	9.082	9.082	0.000	99	2731937	50.0	48.5	
91 Carbazole	167	9.235	9.235	0.000	96	1953098	50.0	47.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
92 Di-n-butyl phthalate	149	9.576	9.576	0.000	100	2338157	50.0	48.5	
93 Fluoranthene	202	10.206	10.206	0.000	99	2379937	50.0	49.1	
94 Benzidine	184	10.329	10.329	0.000	99	884757	50.0	49.4	
95 Pyrene	202	10.435	10.435	0.000	98	2349757	50.0	47.8	
82 Bisphenol-A	213	10.471	10.471	0.000	98	710051	50.0	50.6	
\$ 96 Terphenyl-d14	244	10.594	10.594	0.000	98	2036865	50.0	51.5	
97 Butyl benzyl phthalate	149	11.129	11.129	0.000	96	725085	50.0	48.6	
98 2,3,7,8-TCDD	320	11.247	11.247	0.000	93	3913	0.5000	0.5000	
99 Carbamazepine	193	11.259	11.259	0.000	91	601319	50.0	47.8	
100 3,3'-Dichlorobenzidine	252	11.770	11.770	0.000	98	661727	50.0	52.5	
101 Benzo[a]anthracene	228	11.806	11.806	0.000	96	1796227	50.0	48.6	
* 102 Chrysene-d12	240	11.818	11.818	0.000	98	1276231	40.0	40.0	
104 Bis(2-ethylhexyl) phthalat	149	11.841	11.841	0.000	90	941608	50.0	48.2	
103 Chrysene	228	11.853	11.853	0.000	99	1610710	50.0	48.3	
105 Di-n-octyl phthalate	149	12.723	12.723	0.000	98	1440850	50.0	50.6	
106 Benzo[b]fluoranthene	252	13.253	13.253	0.000	97	1508434	50.0	52.1	
107 Benzo[k]fluoranthene	252	13.288	13.288	0.000	96	1558290	50.0	50.1	
108 Benzo[a]pyrene	252	13.706	13.706	0.000	98	1366363	50.0	52.6	
* 109 Perylene-d12	264	13.788	13.788	0.000	98	1099439	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	15.382	15.382	0.000	95	1341551	50.0	60.6	
111 Dibenz(a,h)anthracene	278	15.423	15.423	0.000	98	1384172	50.0	56.9	
112 Benzo[g,h,i]perylene	276	15.835	15.835	0.000	95	1441333	50.0	52.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SV_IC_BNA_L6_00018

Amount Added: 1.00

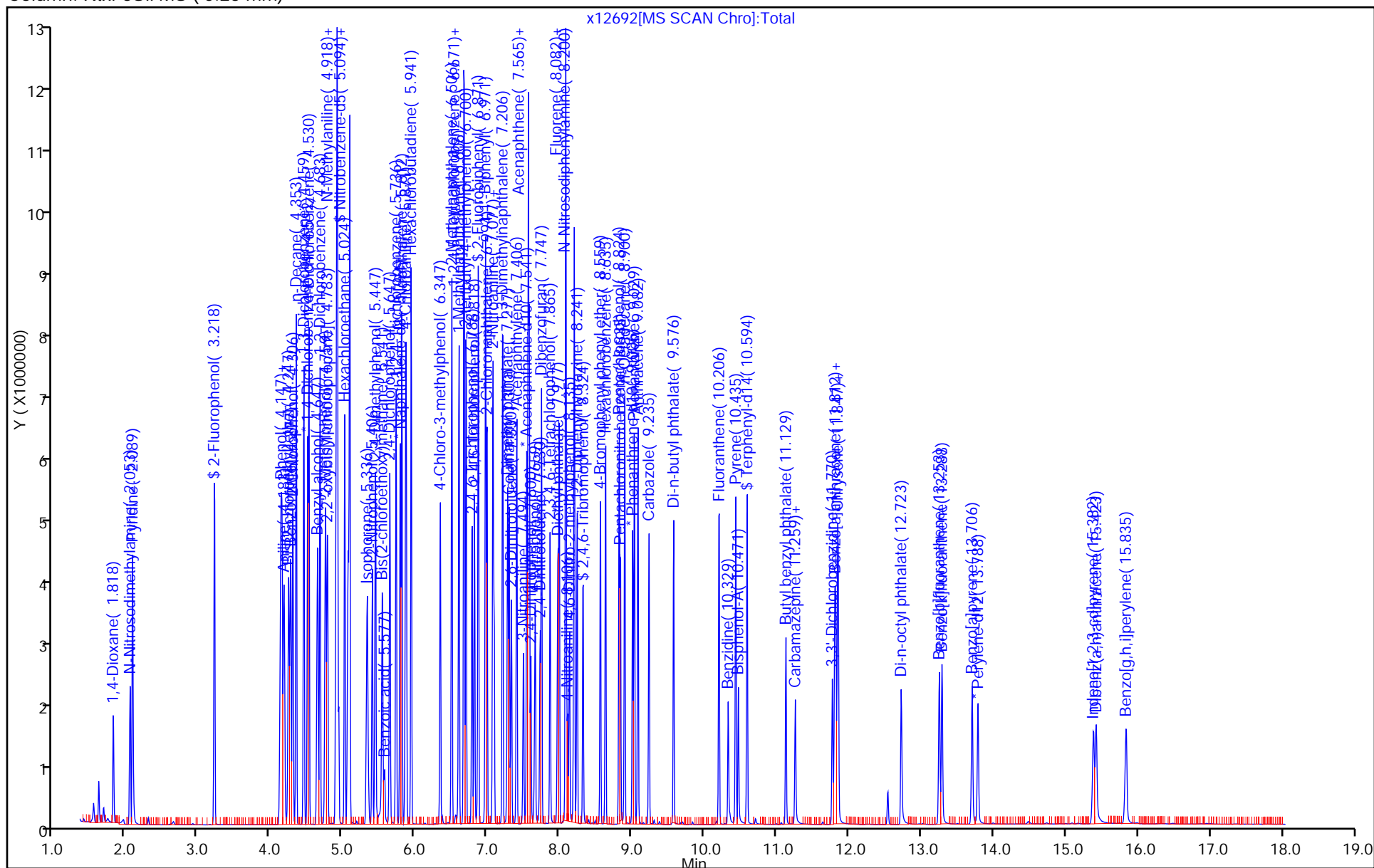
Units: mL

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

TestAmerica Edison

Data File:	\\ChromNA\\Edison\\ChromData\\CBNAM5\\20160411-39723.b\\x12692.D		
Injection Date:	11-Apr-2016 13:47:30	Instrument ID:	CBNAM5
Lims ID:	icis		
Client ID:			
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_5R	Limit Group:	SV 8270D ICA
Column:	Rtxi-5Sil MS (0.25 mm)		

Operator ID:
Worklist Smp#: 2
ALS Bottle#: 2



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12693.D
 Lims ID: std120
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 11-Apr-2016 14:11:30 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-003
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub37
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:58:45 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 15:22:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.812	1.818	-0.006	97	1224214	120.0	117.1	
2 N-Nitrosodimethylamine	74	2.065	2.053	0.012	64	1669340	120.0	115.1	
3 Pyridine	79	2.089	2.089	0.000	79	2929279	120.0	117.3	
\$ 4 2-Fluorophenol	112	3.230	3.218	0.012	94	3521221	120.0	118.3	
\$ 6 Phenol-d5	99	4.165	4.142	0.023	94	3800316	120.0	111.8	
7 Phenol	94	4.183	4.159	0.024	98	3428046	120.0	106.4	
8 Aniline	93	4.206	4.183	0.023	98	4182159	120.0	107.0	M
9 Bis(2-chloroethyl)ether	93	4.259	4.247	0.012	96	2614245	120.0	101.2	
10 Benzonitrile	103	4.300	4.277	0.023	66	5115272	NC	NC	
11 2-Chlorophenol	128	4.318	4.306	0.012	95	2929826	120.0	105.0	
12 n-Decane	43	4.359	4.353	0.006	87	3343594	120.0	94.2	
13 1,3-Dichlorobenzene	146	4.465	4.459	0.006	95	3945489	120.0	111.6	
* 14 1,4-Dichlorobenzene-d4	152	4.518	4.512	0.006	97	820418	40.0	40.0	
15 1,4-Dichlorobenzene	146	4.536	4.530	0.006	94	3907093	120.0	112.6	
16 Benzyl alcohol	108	4.671	4.647	0.024	91	1910135	120.0	110.2	
17 1,2-Dichlorobenzene	146	4.689	4.683	0.006	97	3578341	120.0	108.3	
18 2-Methylphenol	108	4.771	4.759	0.012	86	2528229	120.0	103.7	
19 2,2'-oxybis[1-chloropropan	45	4.795	4.783	0.012	87	3503298	120.0	120.8	
20 N-Methylaniline	106	4.918	4.906	0.012	83	4092493	NC	NC	
24 4-Methylphenol	108	4.942	4.918	0.024	92	2618500	120.0	109.4	
21 Acetophenone	105	4.936	4.918	0.018	97	3308064	120.0	110.7	
23 3 & 4 Methylphenol	108	4.942	4.918	0.024	95	2618500	120.0	109.4	
22 N-Nitrosodi-n-propylamine	70	4.971	4.924	0.047	93	1650462	120.0	96.4	
25 Hexachloroethane	117	5.030	5.024	0.006	85	1270188	120.0	101.4	
\$ 26 Nitrobenzene-d5	82	5.089	5.071	0.018	95	3246486	120.0	116.7	
28 Nitrobenzene	77	5.112	5.094	0.018	82	3606577	120.0	102.3	
27 n,n'-Dimethylaniline	120	5.112	5.094	0.018	90	4154866	120.0	98.3	
31 Isophorone	82	5.359	5.336	0.023	97	4771623	120.0	111.1	M
32 2-Nitrophenol	139	5.418	5.406	0.012	84	1521349	120.0	114.5	
33 2,4-Dimethylphenol	122	5.465	5.447	0.018	89	2395716	120.0	109.6	
34 Bis(2-chloroethoxy)methane	93	5.553	5.541	0.012	98	2441102	120.0	106.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzoic acid	122	5.642	5.577	0.065	92	1320500	120.0	131.4	M
36 2,4-Dichlorophenol	162	5.665	5.647	0.018	94	2556820	120.0	112.7	
37 1,2,4-Trichlorobenzene	180	5.742	5.736	0.006	93	3131341	120.0	113.2	
* 38 Naphthalene-d8	136	5.800	5.794	0.006	100	2646782	40.0	40.0	
39 Naphthalene	128	5.824	5.812	0.012	100	7742481	120.0	110.9	
40 4-Chloroaniline	127	5.883	5.865	0.018	96	2904503	120.0	108.6	
41 Hexachlorobutadiene	225	5.947	5.941	0.006	98	2371721	120.0	125.8	
43 4-Chloro-3-methylphenol	107	6.353	6.347	0.006	96	1935841	120.0	108.5	
44 2-Methylnaphthalene	142	6.512	6.506	0.006	86	5254357	120.0	108.9	
45 1-Methylnaphthalene	142	6.612	6.606	0.006	93	4483140	120.0	108.2	
46 Hexachlorocyclopentadiene	237	6.677	6.671	0.006	98	2600135	120.0	139.7	
47 1,2,4,5-Tetrachlorobenzene	216	6.683	6.677	0.006	99	3224001	120.0	130.2	
48 2-tertbutyl-4-methylphenol	149	6.712	6.700	0.012	92	3462341	120.0	109.5	
49 2,4,6-Trichlorophenol	196	6.794	6.788	0.006	93	1813150	120.0	132.1	
50 2,4,5-Trichlorophenol	196	6.830	6.818	0.012	96	1615662	120.0	116.0	
\$ 51 2-Fluorobiphenyl	172	6.877	6.871	0.006	98	6762147	120.0	125.3	
52 1,1'-Biphenyl	154	6.983	6.971	0.012	94	6100735	120.0	114.6	
53 2-Chloronaphthalene	162	7.000	6.994	0.006	98	4586414	120.0	114.4	
54 Phenyl ether	170	7.083	7.077	0.006	84	3382563	120.0	116.5	
56 2-Nitroaniline	65	7.100	7.088	0.012	96	1410499	120.0	115.6	
57 1,3-Dimethylnaphthalene	156	7.218	7.212	0.006	94	3554751	120.0	109.2	
58 Dimethyl phthalate	163	7.294	7.277	0.017	99	4147409	120.0	111.7	
59 Coumarin	146	7.312	7.300	0.012	78	1215427	120.0	104.4	
60 2,6-Dinitrotoluene	165	7.341	7.330	0.011	94	942437	120.0	113.6	
61 Acenaphthylene	152	7.412	7.406	0.006	97	6247465	120.0	112.3	
64 3-Nitroaniline	138	7.512	7.500	0.012	93	958604	120.0	115.4	
* 65 Acenaphthene-d10	164	7.547	7.541	0.006	88	1272767	40.0	40.0	
66 3,5-di-tert-butyl-4-hydrox	205	7.571	7.565	0.006	95	5848994	120.0	126.7	
67 Acenaphthene	154	7.583	7.577	0.006	92	4023818	120.0	108.9	
68 2,4-Dinitrophenol	184	7.618	7.600	0.018	94	1083808	240.0	239.4	
69 4-Nitrophenol	65	7.677	7.659	0.018	86	1244420	240.0	253.4	
70 2,4-Dinitrotoluene	165	7.741	7.730	0.011	95	1108033	120.0	119.0	
71 Dibenzofuran	168	7.753	7.747	0.006	95	5922614	120.0	112.1	
72 2,3,4,6-Tetrachlorophenol	232	7.871	7.865	0.006	99	1384824	120.0	129.2	
73 Diethyl phthalate	149	7.983	7.971	0.012	99	3505030	120.0	109.1	
74 4-Chlorophenyl phenyl ethe	204	8.088	8.082	0.006	94	2664938	120.0	122.7	
75 Fluorene	166	8.094	8.082	0.012	96	4439675	120.0	116.7	
76 4-Nitroaniline	138	8.130	8.106	0.024	86	797889	120.0	121.0	
77 4,6-Dinitro-2-methylphenol	198	8.153	8.135	0.018	92	1346616	240.0	259.9	
78 N-Nitrosodiphenylamine	169	8.212	8.200	0.012	65	6107824	240.0	230.6	
79 1,2-Diphenylhydrazine	77	8.247	8.241	0.006	92	3199455	120.0	107.5	
\$ 80 2,4,6-Tribromophenol	330	8.330	8.324	0.006	87	1617583	120.0	154.2	
81 4-Bromophenyl phenyl ether	248	8.565	8.565	0.000	96	1741764	120.0	131.3	
83 Hexachlorobenzene	284	8.641	8.635	0.006	91	2258903	120.0	142.4	
85 Pentachlorophenol	266	8.830	8.824	0.006	96	2308809	240.0	310.3	
86 Pentachloronitrobenzene	237	8.841	8.841	0.000	94	604007	120.0	120.1	
87 n-Octadecane	57	8.900	8.900	0.000	96	2330643	120.0	110.1	
* 88 Phenanthrene-d10	188	9.012	9.006	0.006	97	1667949	40.0	40.0	
89 Phenanthrene	178	9.035	9.029	0.006	96	5441450	120.0	116.5	
90 Anthracene	178	9.088	9.082	0.006	99	5424075	120.0	115.2	
91 Carbazole	167	9.241	9.235	0.006	96	3970106	120.0	114.3	
92 Di-n-butyl phthalate	149	9.577	9.576	0.001	99	4694059	120.0	116.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
93 Fluoranthene	202	10.206	10.206	0.000	98	4926801	120.0	121.8	
94 Benzidine	184	10.329	10.329	0.000	99	2277733	120.0	152.2	
95 Pyrene	202	10.441	10.435	0.006	98	4932006	120.0	115.8	
82 Bisphenol-A	213	10.477	10.471	0.006	98	1668672	120.0	119.9	
\$ 96 Terphenyl-d14	244	10.594	10.594	0.000	98	4811173	120.0	140.5	
97 Butyl benzyl phthalate	149	11.129	11.129	0.000	96	1584703	120.0	122.6	
99 Carbamazepine	193	11.265	11.259	0.006	91	1498766	120.0	133.4	
100 3,3'-Dichlorobenzidine	252	11.776	11.770	0.006	97	1614011	120.0	148.1	
101 Benzo[a]anthracene	228	11.812	11.806	0.006	96	4020370	120.0	125.7	
* 102 Chrysene-d12	240	11.824	11.818	0.006	98	1104474	40.0	40.0	
104 Bis(2-ethylhexyl) phthalat	149	11.841	11.841	0.000	88	2103385	120.0	124.4	
103 Chrysene	228	11.859	11.853	0.006	100	3687609	120.0	127.8	
105 Di-n-octyl phthalate	149	12.723	12.723	0.000	98	3363316	120.0	124.4	
106 Benzo[b]fluoranthene	252	13.259	13.253	0.006	97	3792155	120.0	138.1	
107 Benzo[k]fluoranthene	252	13.300	13.288	0.012	96	3833307	120.0	129.9	
108 Benzo[a]pyrene	252	13.712	13.706	0.006	98	3476191	120.0	140.9	
* 109 Perylene-d12	264	13.788	13.788	0.000	98	1043517	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	15.394	15.382	0.012	95	3545547	120.0	168.7	
111 Dibenz(a,h)anthracene	278	15.435	15.423	0.012	98	3490523	120.0	151.1	
112 Benzo[g,h,i]perylene	276	15.853	15.835	0.018	95	3584209	120.0	138.5	
S 119 Total Cresols	1				0			213.1	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

Reagents:

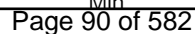
SV_IC_BNA_L8_00010

Amount Added: 1.00

Units: mL

Data File:	\\ChromNA\\Edison\\ChromData\\CBNAM5\\20160411-39723.b\\x12693.D		
Injection Date:	11-Apr-2016 14:11:30	Instrument ID:	CBNAM5
Lims ID:	std120		
Client ID:			
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_5R	Limit Group:	SV 8270D ICA
Column:	Rtxi-5Sil MS (0.25 mm)		

ALS Bottle#: 3



TestAmerica Edison

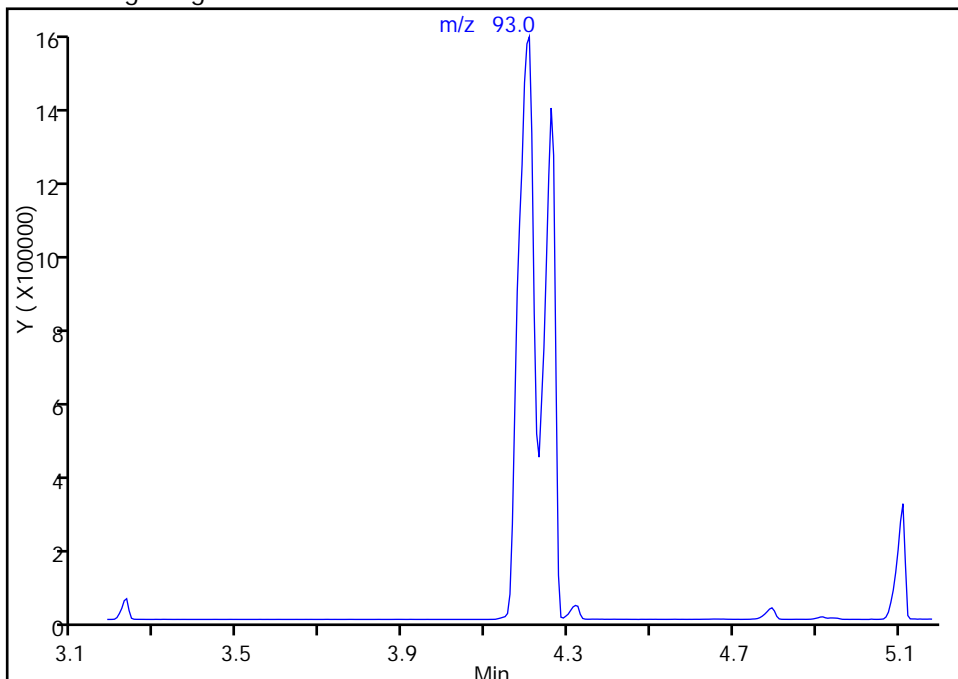
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Injection Date: 11-Apr-2016 14:11:30 Instrument ID: CBNAMS5
Lims ID: std120
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R
Column: Rtxi-5Sil MS (0.25 mm)

ALS Bottle#: 3 Worklist Smp#: 3
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL
Detector: MS SCAN

8 Aniline, CAS: 62-53-3

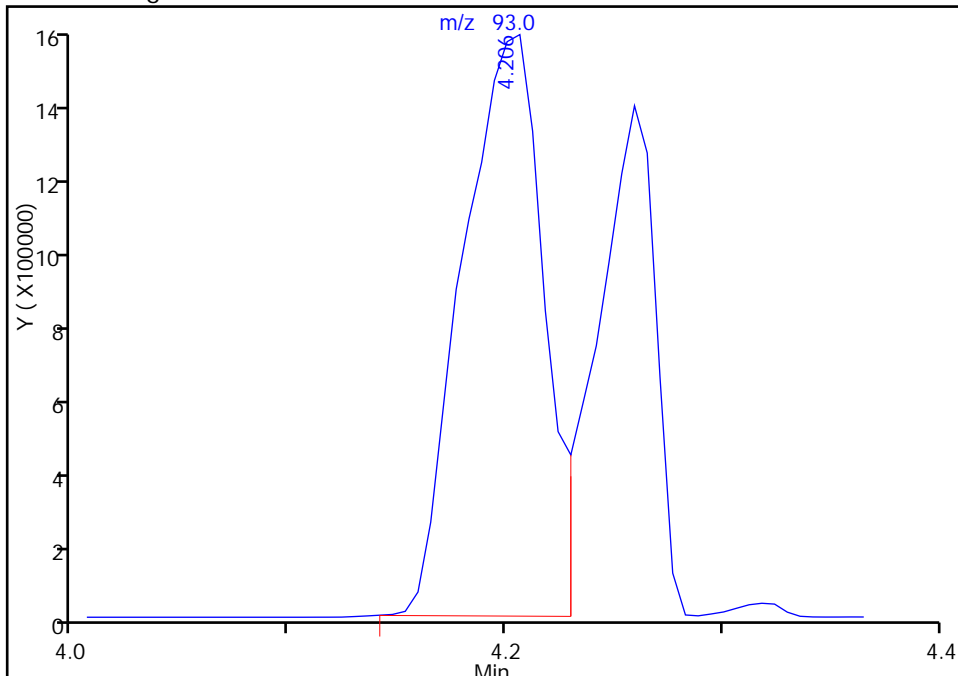
Not Detected
Expected RT: 4.18

Processing Integration Results



RT: 4.21
Area: 4182159
Amount: 107.0446
Amount Units: ug/ml

Manual Integration Results



Reviewer: croccom, 11-Apr-2016 15:22:20
Audit Action: Manually Integrated
Audit Reason: Shouldering

TestAmerica Edison

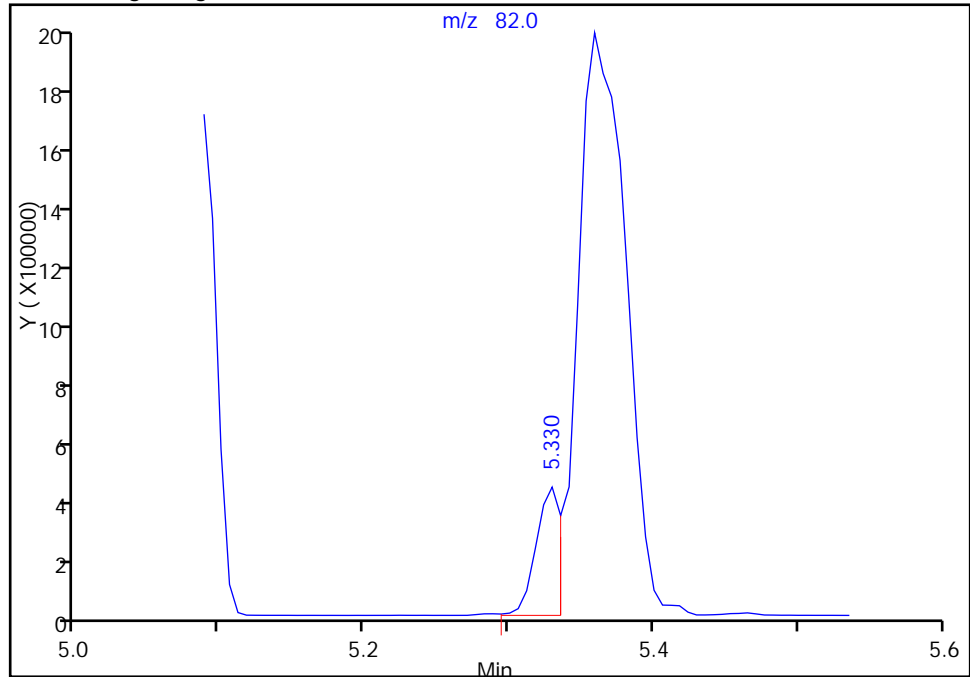
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Injection Date: 11-Apr-2016 14:11:30 Instrument ID: CBNAMS5
Lims ID: std120
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R
Column: Rtxi-5Sil MS (0.25 mm)

ALS Bottle#: 3 Worklist Smp#: 3
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL
Detector: MS SCAN

31 Isophorone, CAS: 78-59-1

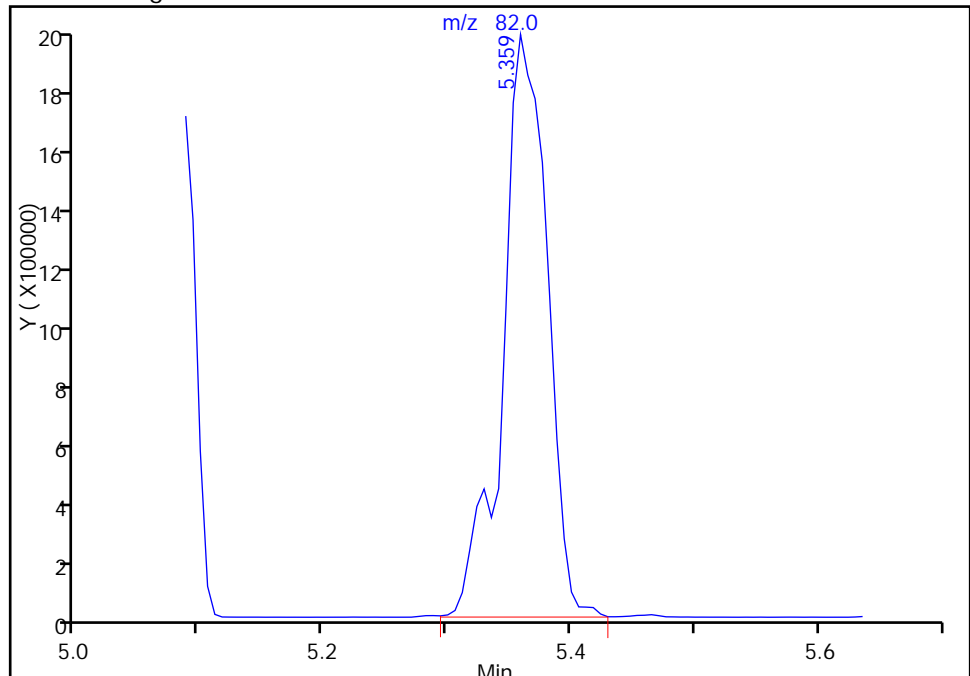
RT: 5.33
Area: 508849
Amount: 35.398726
Amount Units: ug/ml

Processing Integration Results



RT: 5.36
Area: 4771623
Amount: 111.0650
Amount Units: ug/ml

Manual Integration Results



Reviewer: croccom, 11-Apr-2016 15:24:02
Audit Action: Manually Integrated
Audit Reason: Split Peak

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12693.D

Injection Date: 11-Apr-2016 14:11:30

Instrument ID: CBNAMS5

Lims ID: std120

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8270_5R

Limit Group: SV 8270D ICAL

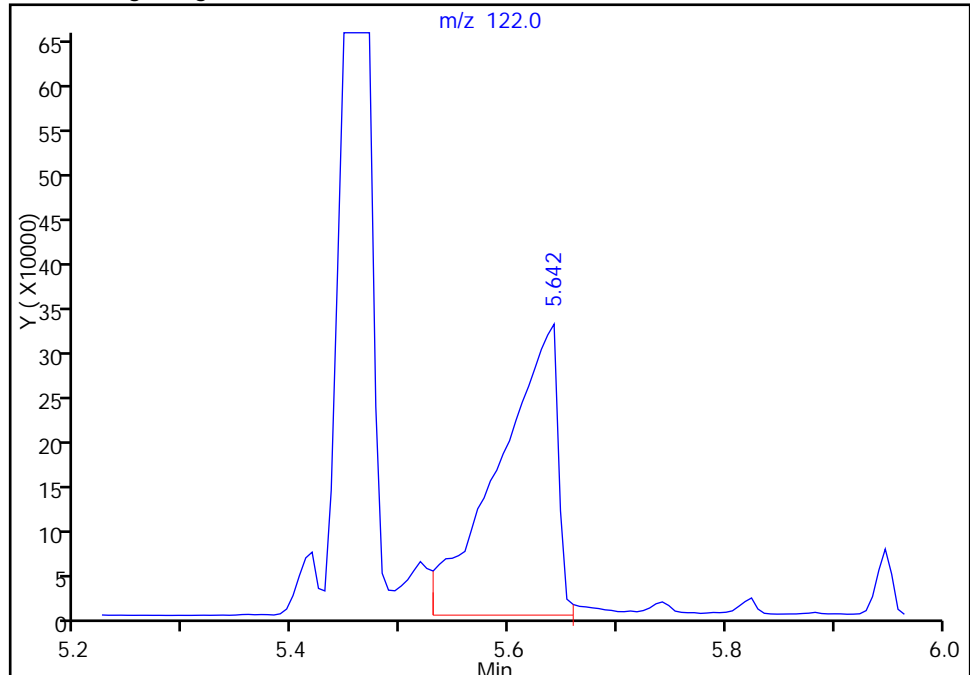
Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

35 Benzoic acid, CAS: 65-85-0

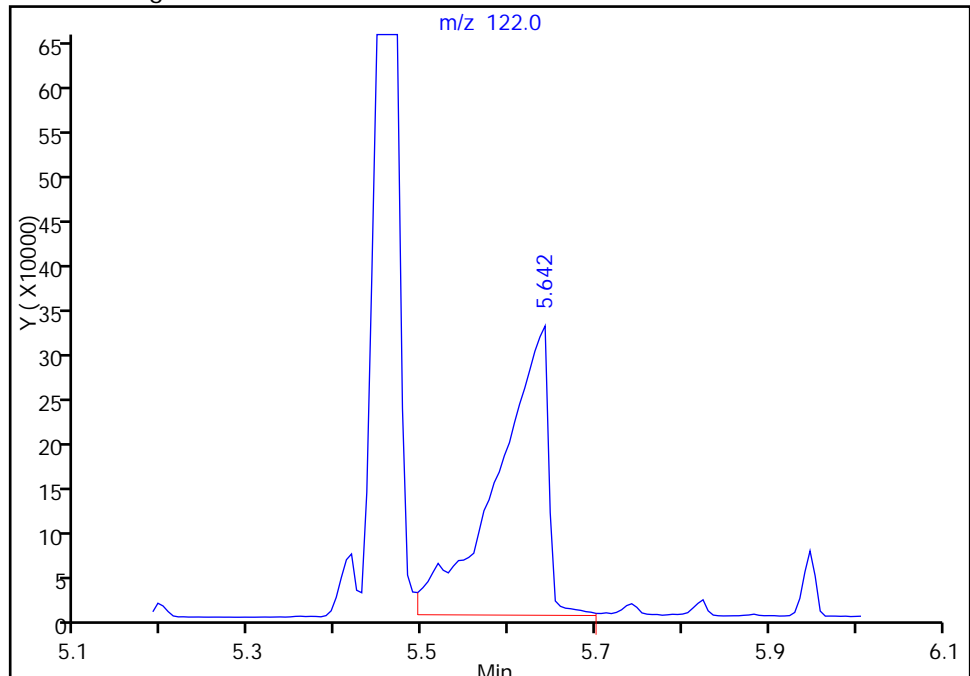
RT: 5.64
Area: 1235841
Amount: 119.5482
Amount Units: ug/ml

Processing Integration Results



RT: 5.64
Area: 1320500
Amount: 131.4143
Amount Units: ug/ml

Manual Integration Results



Reviewer: croccom, 11-Apr-2016 15:24:02

Audit Action: Manually Integrated

Audit Reason: Split Peak

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12694.D
 Lims ID: std80
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 11-Apr-2016 14:35:30 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-004
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub37
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:58:51 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 15:25:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.818	1.818	0.000	96	879976	80.0	75.0	
2 N-Nitrosodimethylamine	74	2.059	2.053	0.006	65	1221429	80.0	75.0	
3 Pyridine	79	2.083	2.089	-0.006	80	2084539	80.0	74.4	
\$ 4 2-Fluorophenol	112	3.224	3.218	0.006	94	2263985	80.0	67.7	
\$ 6 Phenol-d5	99	4.153	4.142	0.011	93	2518752	80.0	66.0	
7 Phenol	94	4.165	4.159	0.006	97	2526326	80.0	69.8	
8 Aniline	93	4.195	4.183	0.012	98	3209371	80.0	73.2	
9 Bis(2-chloroethyl)ether	93	4.253	4.247	0.006	95	1836092	80.0	63.3	
10 Benzonitrile	103	4.283	4.277	0.006	66	3845303	NC	NC	
11 2-Chlorophenol	128	4.312	4.306	0.006	95	2232517	80.0	71.3	
12 n-Decane	43	4.359	4.353	0.006	88	2468567	80.0	61.9	
13 1,3-Dichlorobenzene	146	4.459	4.459	0.000	95	2846042	80.0	71.7	
* 14 1,4-Dichlorobenzene-d4	152	4.512	4.512	0.000	96	921248	40.0	40.0	
15 1,4-Dichlorobenzene	146	4.530	4.530	0.000	94	2797352	80.0	71.8	
16 Benzyl alcohol	108	4.659	4.647	0.012	91	1465861	80.0	75.3	
17 1,2-Dichlorobenzene	146	4.683	4.683	0.000	96	2607051	80.0	70.3	
18 2-Methylphenol	108	4.765	4.759	0.006	88	1914693	80.0	69.9	
19 2,2'-oxybis[1-chloropropan	45	4.789	4.783	0.006	88	2873480	80.0	78.3	
20 N-Methylaniline	106	4.912	4.906	0.006	86	2932088	NC	NC	
24 4-Methylphenol	108	4.930	4.918	0.012	81	1898946	80.0	70.6	
21 Acetophenone	105	4.930	4.918	0.012	97	2363210	80.0	70.4	
23 3 & 4 Methylphenol	108	4.930	4.918	0.012	82	1898946	80.0	70.6	
22 N-Nitrosodi-n-propylamine	70	4.953	4.924	0.029	94	1249429	80.0	65.0	
25 Hexachloroethane	117	5.024	5.024	0.000	85	916252	80.0	65.1	
\$ 26 Nitrobenzene-d5	82	5.077	5.071	0.006	94	2208112	80.0	68.9	
28 Nitrobenzene	77	5.100	5.094	0.006	81	2585398	80.0	63.6	
27 n,n'-Dimethylaniline	120	5.100	5.094	0.006	88	2952113	80.0	62.2	
31 Isophorone	82	5.347	5.336	0.011	97	3512886	80.0	71.0	
32 2-Nitrophenol	139	5.412	5.406	0.006	86	1165394	80.0	76.1	
33 2,4-Dimethylphenol	122	5.459	5.447	0.012	89	1793068	80.0	71.2	
34 Bis(2-chloroethoxy)methane	93	5.547	5.541	0.006	97	1836998	80.0	69.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzoic acid	122	5.612	5.577	0.035	92	908566	80.0	79.4	
36 2,4-Dichlorophenol	162	5.653	5.647	0.006	94	1905068	80.0	72.9	
37 1,2,4-Trichlorobenzene	180	5.736	5.736	0.000	93	2252128	80.0	70.7	
* 38 Naphthalene-d8	136	5.794	5.794	0.000	100	3049638	40.0	40.0	
39 Naphthalene	128	5.818	5.812	0.006	99	5673719	80.0	70.5	
40 4-Chloroaniline	127	5.871	5.865	0.006	97	2143536	80.0	69.6	
41 Hexachlorobutadiene	225	5.947	5.941	0.006	98	1707721	80.0	78.6	
43 4-Chloro-3-methylphenol	107	6.347	6.347	0.000	96	1457266	80.0	70.9	
44 2-Methylnaphthalene	142	6.506	6.506	0.000	85	3937243	80.0	70.8	
45 1-Methylnaphthalene	142	6.606	6.606	0.000	93	3346387	80.0	70.1	
46 Hexachlorocyclopentadiene	237	6.677	6.671	0.006	98	1895029	80.0	86.1	
47 1,2,4,5-Tetrachlorobenzene	216	6.683	6.677	0.006	99	2344261	80.0	80.1	
48 2-tertbutyl-4-methylphenol	149	6.706	6.700	0.006	91	2492231	80.0	68.4	
49 2,4,6-Trichlorophenol	196	6.789	6.788	0.001	92	1293751	80.0	79.7	
50 2,4,5-Trichlorophenol	196	6.824	6.818	0.006	96	1256464	80.0	76.3	
\$ 51 2-Fluorobiphenyl	172	6.877	6.871	0.006	98	4592109	80.0	72.0	
52 1,1'-Biphenyl	154	6.977	6.971	0.006	93	4564730	80.0	72.5	
53 2-Chloronaphthalene	162	6.994	6.994	0.000	98	3471950	80.0	73.2	
54 Phenyl ether	170	7.077	7.077	0.000	84	2455870	80.0	71.5	
56 2-Nitroaniline	65	7.094	7.088	0.006	96	1063241	80.0	73.7	
57 1,3-Dimethylnaphthalene	156	7.212	7.212	0.000	94	2606721	80.0	67.7	
58 Dimethyl phthalate	163	7.283	7.277	0.006	99	3217811	80.0	73.3	
59 Coumarin	146	7.306	7.300	0.006	72	908735	80.0	67.7	
60 2,6-Dinitrotoluene	165	7.336	7.330	0.006	94	739232	80.0	75.3	
61 Acenaphthylene	152	7.406	7.406	0.000	97	4717729	80.0	71.7	
64 3-Nitroaniline	138	7.506	7.500	0.006	93	741443	80.0	75.5	
* 65 Acenaphthene-d10	164	7.547	7.541	0.006	90	1504584	40.0	40.0	
66 3,5-di-tert-butyl-4-hydrox	205	7.571	7.565	0.006	95	4207121	80.0	77.1	
67 Acenaphthene	154	7.583	7.577	0.006	92	3042842	80.0	69.7	
68 2,4-Dinitrophenol	184	7.606	7.600	0.006	95	807487	160.0	162.8	
69 4-Nitrophenol	65	7.671	7.659	0.012	87	922102	160.0	158.8	
70 2,4-Dinitrotoluene	165	7.736	7.730	0.006	97	856474	80.0	77.8	
71 Dibenzofuran	168	7.753	7.747	0.006	95	4537380	80.0	72.7	
72 2,3,4,6-Tetrachlorophenol	232	7.871	7.865	0.006	99	1038720	80.0	82.0	
73 Diethyl phthalate	149	7.977	7.971	0.006	99	2724515	80.0	71.7	
74 4-Chlorophenyl phenyl ethe	204	8.083	8.082	0.001	94	1955204	80.0	76.2	
75 Fluorene	166	8.088	8.082	0.006	95	3300045	80.0	73.4	
76 4-Nitroaniline	138	8.118	8.106	0.012	85	607712	80.0	77.9	
77 4,6-Dinitro-2-methylphenol	198	8.141	8.135	0.006	92	1016853	160.0	166.5	
78 N-Nitrosodiphenylamine	169	8.206	8.200	0.006	66	4578634	160.0	145.9	
79 1,2-Diphenylhydrazine	77	8.241	8.241	0.000	95	2536266	80.0	71.9	
\$ 80 2,4,6-Tribromophenol	330	8.324	8.324	0.000	88	1046583	80.0	84.4	
81 4-Bromophenyl phenyl ether	248	8.565	8.565	0.000	95	1295823	80.0	82.4	
83 Hexachlorobenzene	284	8.635	8.635	0.000	92	1667896	80.0	88.7	
85 Pentachlorophenol	266	8.824	8.824	0.000	96	1694044	160.0	192.2	
86 Pentachloronitrobenzene	237	8.841	8.841	0.000	94	445352	80.0	74.7	
87 n-Octadecane	57	8.900	8.900	0.000	96	1749400	80.0	69.8	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	1976095	40.0	40.0	
89 Phenanthrene	178	9.035	9.029	0.006	96	4163618	80.0	75.3	
90 Anthracene	178	9.083	9.082	0.000	99	4185156	80.0	75.0	
91 Carbazole	167	9.235	9.235	0.000	96	3060163	80.0	74.4	
92 Di-n-butyl phthalate	149	9.577	9.576	0.001	100	3598146	80.0	75.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
93 Fluoranthene	202	10.206	10.206	0.000	99	3778376	80.0	78.9	
94 Benzidine	184	10.329	10.329	0.000	99	1696183	80.0	95.6	
95 Pyrene	202	10.435	10.435	0.000	98	3737075	80.0	75.7	
82 Bisphenol-A	213	10.471	10.471	0.000	98	1208780	80.0	80.1	
\$ 96 Terphenyl-d14	244	10.594	10.594	0.000	98	3074415	80.0	77.4	
97 Butyl benzyl phthalate	149	11.129	11.129	0.000	96	1163075	80.0	77.6	
99 Carbamazepine	193	11.259	11.259	0.000	91	1028006	80.0	79.8	
100 3,3'-Dichlorobenzidine	252	11.771	11.770	0.001	97	1188989	80.0	94.1	
101 Benzo[a]anthracene	228	11.806	11.806	0.000	96	2929145	80.0	79.0	
* 102 Chrysene-d12	240	11.818	11.818	0.000	98	1280807	40.0	40.0	
104 Bis(2-ethylhexyl) phthalat	149	11.841	11.841	0.000	89	1540491	80.0	78.6	
103 Chrysene	228	11.853	11.853	0.000	99	2638437	80.0	78.9	
105 Di-n-octyl phthalate	149	12.723	12.723	0.000	98	2469700	80.0	81.9	
106 Benzo[b]fluoranthene	252	13.253	13.253	0.000	97	2582982	80.0	84.4	
107 Benzo[k]fluoranthene	252	13.294	13.288	0.006	96	2687180	80.0	81.7	
108 Benzo[a]pyrene	252	13.706	13.706	0.000	98	2396509	80.0	87.1	
* 109 Perylene-d12	264	13.782	13.788	-0.006	98	1163599	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	15.388	15.382	0.006	95	2296660	80.0	98.0	
111 Dibenz(a,h)anthracene	278	15.429	15.423	0.006	99	2438898	80.0	94.7	
112 Benzo[g,h,i]perylene	276	15.847	15.835	0.012	95	2500992	80.0	86.7	
S 119 Total Cresols	1				0			140.6	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SV_IC_BNA_L7_00010

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160411-39723.b\\x12694.D

Injection Date: 11-Apr-2016 14:35:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std80

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

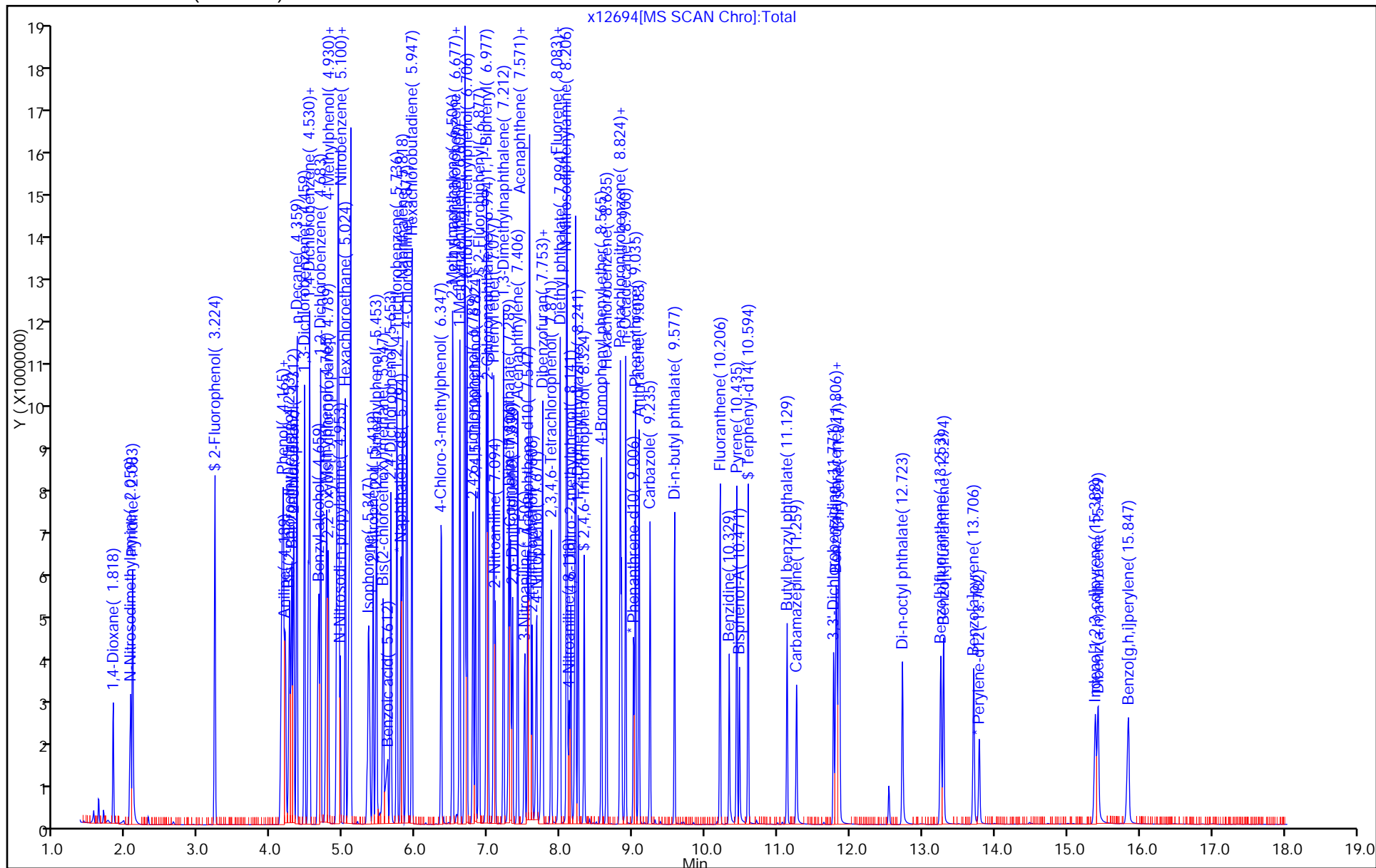
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12695.D
 Lims ID: std20
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 11-Apr-2016 15:00:30 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-005
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub37
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:58:56 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 15:26:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.824	1.818	0.006	97	281507	20.0	20.5	
2 N-Nitrosodimethylamine	74	2.054	2.053	0.001	69	394009	20.0	20.7	
3 Pyridine	79	2.089	2.089	0.000	80	676953	20.0	20.6	
\$ 4 2-Fluorophenol	112	3.218	3.218	0.000	95	737086	20.0	18.9	
\$ 6 Phenol-d5	99	4.130	4.142	-0.012	96	839037	20.0	18.8	
7 Phenol	94	4.142	4.159	-0.017	98	897059	20.0	21.2	
8 Aniline	93	4.177	4.183	-0.006	98	1069931	20.0	20.9	
9 Bis(2-chloroethyl)ether	93	4.236	4.247	-0.011	97	644615	20.0	19.0	
10 Benzonitrile	103	4.259	4.277	-0.018	67	1349476	NC	NC	
11 2-Chlorophenol	128	4.295	4.306	-0.011	94	777095	20.0	21.2	
12 n-Decane	43	4.348	4.353	-0.005	93	947896	20.0	20.3	
13 1,3-Dichlorobenzene	146	4.453	4.459	-0.006	96	967450	20.0	20.8	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.512	-0.006	97	1077555	40.0	40.0	
15 1,4-Dichlorobenzene	146	4.524	4.530	-0.006	95	942113	20.0	20.7	
16 Benzyl alcohol	108	4.636	4.647	-0.011	92	459141	20.0	20.2	
17 1,2-Dichlorobenzene	146	4.677	4.683	-0.006	96	915786	20.0	21.1	
18 2-Methylphenol	108	4.748	4.759	-0.011	89	680233	20.0	21.2	
19 2,2'-oxybis[1-chloropropan	45	4.777	4.783	-0.006	93	1121820	20.0	21.2	
20 N-Methylaniline	106	4.900	4.906	-0.006	81	959280	NC	NC	
24 4-Methylphenol	108	4.906	4.918	-0.012	83	627633	20.0	20.0	
21 Acetophenone	105	4.912	4.918	-0.006	90	781284	20.0	19.9	
23 3 & 4 Methylphenol	108	4.906	4.918	-0.012	82	627633	20.0	20.0	
22 N-Nitrosodi-n-propylamine	70	4.912	4.924	-0.012	95	386520	20.0	17.2	
25 Hexachloroethane	117	5.018	5.024	-0.006	86	323478	20.0	19.7	
\$ 26 Nitrobenzene-d5	82	5.059	5.071	-0.012	93	731090	20.0	19.3	
28 Nitrobenzene	77	5.083	5.094	-0.011	90	903815	20.0	18.8	
27 n,n'-Dimethylaniline	120	5.083	5.094	-0.011	93	1025197	20.0	18.5	
31 Isophorone	82	5.318	5.336	-0.018	97	1146451	20.0	19.6	
32 2-Nitrophenol	139	5.400	5.406	-0.006	88	384349	20.0	21.3	
33 2,4-Dimethylphenol	122	5.442	5.447	-0.005	90	622030	20.0	20.9	
34 Bis(2-chloroethoxy)methane	93	5.536	5.541	-0.005	97	650562	20.0	20.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzoic acid	122	5.536	5.577	-0.041	34	254226	20.0	20.5	
36 2,4-Dichlorophenol	162	5.642	5.647	-0.005	95	655429	20.0	21.2	
37 1,2,4-Trichlorobenzene	180	5.730	5.736	-0.006	94	743151	20.0	19.7	
* 38 Naphthalene-d8	136	5.789	5.794	-0.005	99	3603527	40.0	40.0	
39 Naphthalene	128	5.806	5.812	-0.006	99	1978312	20.0	20.8	
40 4-Chloroaniline	127	5.859	5.865	-0.006	96	757089	20.0	20.8	
41 Hexachlorobutadiene	225	5.942	5.941	0.001	97	512474	20.0	20.0	
43 4-Chloro-3-methylphenol	107	6.342	6.347	-0.005	96	514373	20.0	21.2	
44 2-Methylnaphthalene	142	6.500	6.506	-0.006	86	1377584	20.0	21.0	
45 1-Methylnaphthalene	142	6.600	6.606	-0.006	93	1184928	20.0	21.0	
46 Hexachlorocyclopentadiene	237	6.665	6.671	-0.006	97	531221	20.0	19.6	
47 1,2,4,5-Tetrachlorobenzene	216	6.671	6.677	-0.006	98	699412	20.0	19.4	
48 2-tertbutyl-4-methylphenol	149	6.700	6.700	0.000	91	884210	20.0	20.5	
49 2,4,6-Trichlorophenol	196	6.783	6.788	-0.005	91	402739	20.0	20.2	
50 2,4,5-Trichlorophenol	196	6.812	6.818	-0.006	97	425757	20.0	21.0	
\$ 51 2-Fluorobiphenyl	172	6.865	6.871	-0.006	98	1453985	20.0	18.5	
52 1,1'-Biphenyl	154	6.965	6.971	-0.006	94	1592109	20.0	20.6	
53 2-Chloronaphthalene	162	6.989	6.994	-0.005	99	1218051	20.0	20.9	
54 Phenyl ether	170	7.071	7.077	-0.006	88	875805	20.0	20.7	
56 2-Nitroaniline	65	7.083	7.088	-0.005	97	369753	20.0	20.8	
57 1,3-Dimethylnaphthalene	156	7.206	7.212	-0.006	93	978027	20.0	20.6	
58 Dimethyl phthalate	163	7.271	7.277	-0.006	99	1123589	20.0	20.8	
59 Coumarin	146	7.289	7.300	-0.011	72	332906	20.0	21.0	
60 2,6-Dinitrotoluene	165	7.324	7.330	-0.006	95	253304	20.0	21.0	
61 Acenaphthylene	152	7.400	7.406	-0.006	97	1667739	20.0	20.6	
64 3-Nitroaniline	138	7.489	7.500	-0.011	94	249750	20.0	20.7	
* 65 Acenaphthene-d10	164	7.541	7.541	0.000	91	1852067	40.0	40.0	
66 3,5-di-tert-butyl-4-hydrox	205	7.559	7.565	-0.006	95	1331036	20.0	19.8	
67 Acenaphthene	154	7.571	7.577	-0.006	92	1161202	20.0	21.6	
68 2,4-Dinitrophenol	184	7.589	7.600	-0.011	54	215846	40.0	42.2	
69 4-Nitrophenol	65	7.647	7.659	-0.012	89	290949	40.0	40.7	
70 2,4-Dinitrotoluene	165	7.718	7.730	-0.012	97	295135	20.0	21.8	
71 Dibenzofuran	168	7.741	7.747	-0.006	95	1600284	20.0	20.8	
72 2,3,4,6-Tetrachlorophenol	232	7.859	7.865	-0.006	97	321704	20.0	20.6	
73 Diethyl phthalate	149	7.965	7.971	-0.006	99	984864	20.0	21.1	
74 4-Chlorophenyl phenyl ethe	204	8.077	8.082	-0.005	92	631864	20.0	20.0	
75 Fluorene	166	8.083	8.082	0.001	95	1111594	20.0	20.1	
76 4-Nitroaniline	138	8.094	8.106	-0.012	86	198429	20.0	20.7	
77 4,6-Dinitro-2-methylphenol	198	8.124	8.135	-0.011	91	291596	40.0	39.6	
78 N-Nitrosodiphenylamine	169	8.194	8.200	-0.006	67	1575757	40.0	39.8	
79 1,2-Diphenylhydrazine	77	8.236	8.241	-0.005	96	935237	20.0	21.0	
\$ 80 2,4,6-Tribromophenol	330	8.318	8.324	-0.006	90	275573	20.0	18.1	
81 4-Bromophenyl phenyl ether	248	8.559	8.565	-0.006	93	396929	20.0	20.0	
83 Hexachlorobenzene	284	8.630	8.635	-0.005	93	484511	20.0	20.4	
85 Pentachlorophenol	266	8.818	8.824	-0.006	96	471525	40.0	42.4	
86 Pentachloronitrobenzene	237	8.836	8.841	-0.005	92	158223	20.0	21.0	
87 n-Octadecane	57	8.894	8.900	-0.006	98	666820	20.0	21.1	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	98	2494710	40.0	40.0	
89 Phenanthrene	178	9.030	9.029	0.001	96	1445948	20.0	20.7	
90 Anthracene	178	9.077	9.082	-0.005	99	1440619	20.0	20.5	
91 Carbazole	167	9.230	9.235	-0.005	96	1075243	20.0	20.7	
92 Di-n-butyl phthalate	149	9.571	9.576	-0.005	100	1234698	20.0	20.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
93 Fluoranthene	202	10.200	10.206	-0.006	99	1209493	20.0	20.0	
94 Benzidine	184	10.324	10.329	-0.005	99	384590	20.0	17.2	
95 Pyrene	202	10.430	10.435	-0.005	99	1212125	20.0	20.9	
82 Bisphenol-A	213	10.471	10.471	0.000	98	251602	20.0	18.3	
\$ 96 Terphenyl-d14	244	10.588	10.594	-0.006	98	895741	20.0	19.2	
97 Butyl benzyl phthalate	149	11.124	11.129	-0.005	96	369257	20.0	21.0	
99 Carbamazepine	193	11.253	11.259	-0.006	91	258986	20.0	18.8	
100 3,3'-Dichlorobenzidine	252	11.765	11.770	-0.005	98	296363	20.0	20.0	
101 Benzo[a]anthracene	228	11.800	11.806	-0.006	96	850805	20.0	19.5	
* 102 Chrysene-d12	240	11.818	11.818	0.000	98	1504713	40.0	40.0	
104 Bis(2-ethylhexyl) phthalat	149	11.841	11.841	0.000	89	477152	20.0	20.7	
103 Chrysene	228	11.847	11.853	-0.006	99	794672	20.0	20.2	
105 Di-n-octyl phthalate	149	12.723	12.723	0.000	97	666411	20.0	21.2	
106 Benzo[b]fluoranthene	252	13.247	13.253	-0.006	97	664374	20.0	20.8	
107 Benzo[k]fluoranthene	252	13.282	13.288	-0.006	97	711366	20.0	20.7	
108 Benzo[a]pyrene	252	13.700	13.706	-0.006	98	607541	20.0	21.1	
* 109 Perylene-d12	264	13.782	13.788	-0.006	99	1215741	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	15.376	15.382	-0.006	96	522797	20.0	21.3	
111 Dibenz(a,h)anthracene	278	15.417	15.423	-0.006	99	576822	20.0	21.4	
112 Benzo[g,h,i]perylene	276	15.823	15.835	-0.012	95	585921	20.0	19.4	
S 119 Total Cresols	1				0			41.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SV_IC_BNA_L5_00010

Amount Added: 1.00

Units: mL

Operator ID:

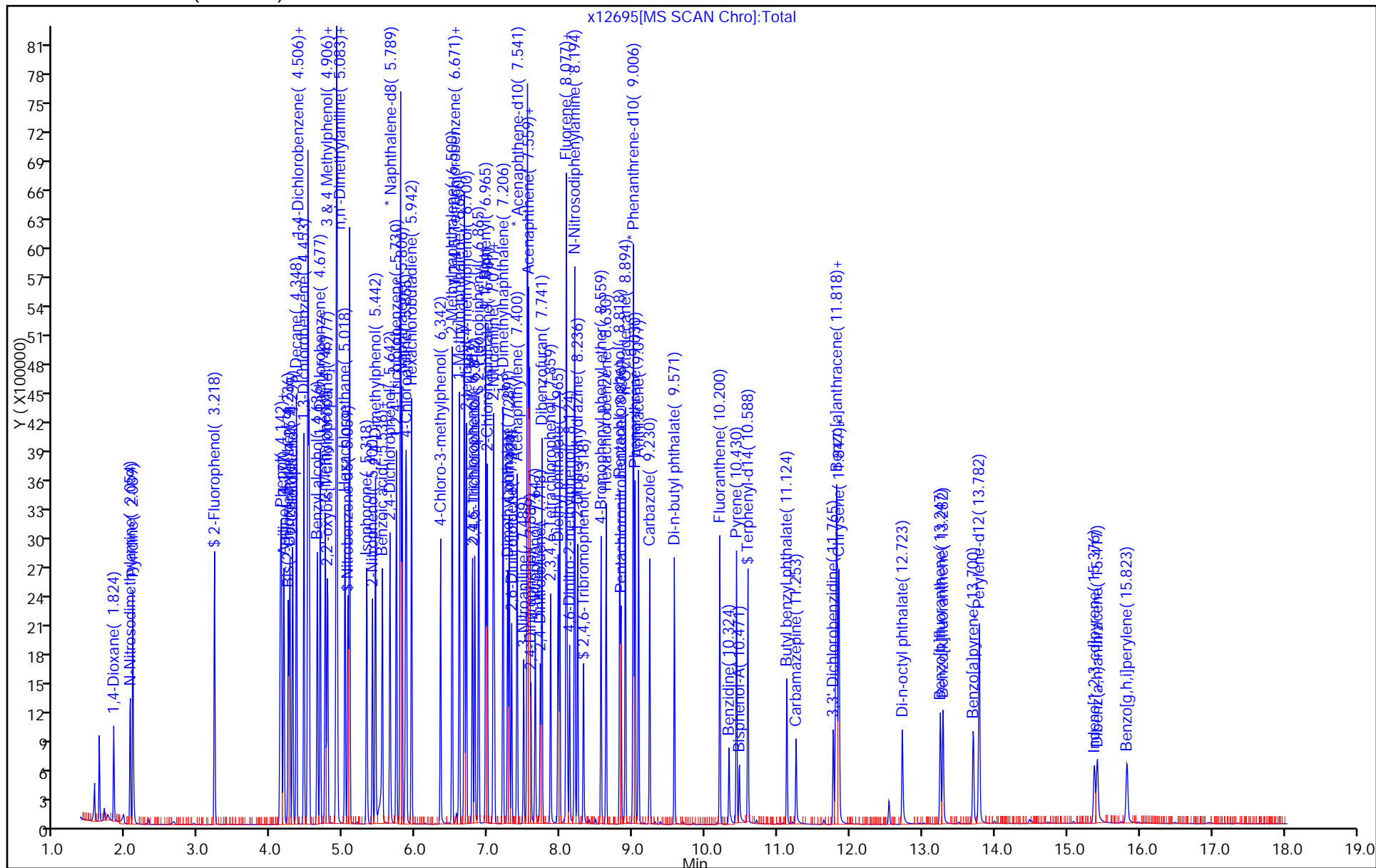
Worklist Smp#: 5

Client ID:

ALS Bottle#: 5

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12696.D
 Lims ID: std10
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 11-Apr-2016 15:24:30 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-006
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub37
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:59:00 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 17:04:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.830	1.818	0.012	97	151836	10.0	10.7	
2 N-Nitrosodimethylamine	74	2.053	2.053	0.000	68	211795	10.0	10.8	
3 Pyridine	79	2.089	2.089	0.000	80	368378	10.0	10.9	
\$ 4 2-Fluorophenol	112	3.218	3.218	0.000	95	416996	10.0	10.3	
\$ 6 Phenol-d5	99	4.124	4.142	-0.018	93	484752	10.0	10.5	
7 Phenol	94	4.136	4.159	-0.023	98	498095	10.0	11.4	
8 Aniline	93	4.171	4.183	-0.012	98	586615	10.0	11.1	
9 Bis(2-chloroethyl)ether	93	4.230	4.247	-0.017	97	360911	10.0	10.3	
10 Benzonitrile	103	4.253	4.277	-0.024	67	732878	NC	NC	
11 2-Chlorophenol	128	4.294	4.306	-0.012	95	432333	10.0	11.4	
12 n-Decane	43	4.347	4.353	-0.006	93	565465	10.0	11.8	
13 1,3-Dichlorobenzene	146	4.453	4.459	-0.006	95	529184	10.0	11.1	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.512	-0.006	97	1110533	40.0	40.0	
15 1,4-Dichlorobenzene	146	4.524	4.530	-0.006	96	517587	10.0	11.0	
16 Benzyl alcohol	108	4.636	4.647	-0.011	92	256439	10.0	10.9	
17 1,2-Dichlorobenzene	146	4.677	4.683	-0.006	96	502043	10.0	11.2	
18 2-Methylphenol	108	4.747	4.759	-0.012	87	372616	10.0	11.3	
19 2,2'-oxybis[1-chloropropan	45	4.777	4.783	-0.006	91	641874	10.0	10.3	
20 N-Methylaniline	106	4.894	4.906	-0.012	79	535444	NC	NC	
24 4-Methylphenol	108	4.900	4.918	-0.018	82	362574	10.0	11.2	
21 Acetophenone	105	4.906	4.918	-0.012	86	453023	10.0	11.2	
23 3 & 4 Methylphenol	108	4.900	4.918	-0.018	82	362574	10.0	11.2	
22 N-Nitrosodi-n-propylamine	70	4.906	4.924	-0.018	95	229575	10.0	9.90	
25 Hexachloroethane	117	5.018	5.024	-0.006	88	182159	10.0	10.7	
\$ 26 Nitrobenzene-d5	82	5.059	5.071	-0.012	92	417628	10.0	10.6	
28 Nitrobenzene	77	5.077	5.094	-0.017	91	514923	10.0	10.3	
27 n,n'-Dimethylaniline	120	5.083	5.094	-0.011	92	585175	10.0	10.2	
31 Isophorone	82	5.318	5.336	-0.018	98	649869	10.0	10.7	
32 2-Nitrophenol	139	5.400	5.406	-0.006	88	200947	10.0	10.7	
33 2,4-Dimethylphenol	122	5.436	5.447	-0.011	90	347908	10.0	11.3	
34 Bis(2-chloroethoxy)methane	93	5.536	5.541	-0.005	97	366953	10.0	11.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzoic acid	122	5.506	5.577	-0.071	93	108131	10.0	9.71	
36 2,4-Dichlorophenol	162	5.641	5.647	-0.006	95	347879	10.0	10.9	
37 1,2,4-Trichlorobenzene	180	5.730	5.736	-0.006	94	400283	10.0	10.2	
* 38 Naphthalene-d8	136	5.788	5.794	-0.006	99	3737923	40.0	40.0	
39 Naphthalene	128	5.806	5.812	-0.006	99	1103206	10.0	11.2	
40 4-Chloroaniline	127	5.859	5.865	-0.006	96	434409	10.0	11.5	
41 Hexachlorobutadiene	225	5.941	5.941	0.000	97	265641	10.0	9.98	
43 4-Chloro-3-methylphenol	107	6.341	6.347	-0.006	97	281933	10.0	11.2	
44 2-Methylnaphthalene	142	6.500	6.506	-0.006	85	753034	10.0	11.1	
45 1-Methylnaphthalene	142	6.600	6.606	-0.006	93	652900	10.0	11.2	
46 Hexachlorocyclopentadiene	237	6.665	6.671	-0.006	98	264247	10.0	9.19	
47 1,2,4,5-Tetrachlorobenzene	216	6.671	6.677	-0.006	98	382398	10.0	10.0	
48 2-tertbutyl-4-methylphenol	149	6.694	6.700	-0.006	91	492130	10.0	11.0	
49 2,4,6-Trichlorophenol	196	6.777	6.788	-0.011	91	214072	10.0	10.1	
50 2,4,5-Trichlorophenol	196	6.812	6.818	-0.006	96	225942	10.0	10.5	
\$ 51 2-Fluorobiphenyl	172	6.865	6.871	-0.006	98	850602	10.0	10.2	
52 1,1'-Biphenyl	154	6.965	6.971	-0.006	93	901199	10.0	11.0	
53 2-Chloronaphthalene	162	6.982	6.994	-0.012	98	667635	10.0	10.8	
54 Phenyl ether	170	7.071	7.077	-0.006	88	469479	10.0	10.5	
56 2-Nitroaniline	65	7.082	7.088	-0.006	98	203744	10.0	10.8	
57 1,3-Dimethylnaphthalene	156	7.200	7.212	-0.012	93	547320	10.0	10.9	
58 Dimethyl phthalate	163	7.265	7.277	-0.012	100	626358	10.0	10.9	
59 Coumarin	146	7.288	7.300	-0.012	73	184227	10.0	11.2	
60 2,6-Dinitrotoluene	165	7.318	7.330	-0.012	95	139059	10.0	10.8	
61 Acenaphthylene	152	7.394	7.406	-0.012	98	944107	10.0	11.0	
64 3-Nitroaniline	138	7.488	7.500	-0.012	94	137079	10.0	10.7	
* 65 Acenaphthene-d10	164	7.541	7.541	0.000	90	1965875	40.0	40.0	
66 3,5-di-tert-butyl-4-hydrox	205	7.559	7.565	-0.006	95	691664	10.0	9.70	
67 Acenaphthene	154	7.571	7.577	-0.006	92	644564	10.0	11.3	
68 2,4-Dinitrophenol	184	7.588	7.600	-0.012	41	96238	20.0	19.9	
69 4-Nitrophenol	65	7.647	7.659	-0.012	90	160556	20.0	21.2	
70 2,4-Dinitrotoluene	165	7.718	7.730	-0.012	96	162553	10.0	11.3	
71 Dibenzofuran	168	7.741	7.747	-0.006	95	897381	10.0	11.0	
72 2,3,4,6-Tetrachlorophenol	232	7.859	7.865	-0.006	96	164807	10.0	9.95	
73 Diethyl phthalate	149	7.959	7.971	-0.012	99	552392	10.0	11.1	
74 4-Chlorophenyl phenyl ethe	204	8.077	8.082	-0.006	87	353016	10.0	10.5	
75 Fluorene	166	8.077	8.082	-0.006	94	640467	10.0	10.9	
76 4-Nitroaniline	138	8.088	8.106	-0.018	86	108199	10.0	10.6	
77 4,6-Dinitro-2-methylphenol	198	8.118	8.135	-0.017	91	145036	20.0	19.4	
78 N-Nitrosodiphenylamine	169	8.188	8.200	-0.012	67	898072	20.0	20.9	
79 1,2-Diphenylhydrazine	77	8.229	8.241	-0.012	98	537501	10.0	11.1	
\$ 80 2,4,6-Tribromophenol	330	8.318	8.324	-0.006	90	149656	10.0	9.24	
81 4-Bromophenyl phenyl ether	248	8.559	8.565	-0.006	93	206110	10.0	9.58	
83 Hexachlorobenzene	284	8.629	8.635	-0.006	94	250362	10.0	9.73	
85 Pentachlorophenol	266	8.818	8.824	-0.006	95	238105	20.0	19.7	
86 Pentachloronitrobenzene	237	8.835	8.841	-0.006	91	81358	10.0	9.97	
87 n-Octadecane	57	8.894	8.900	-0.006	98	387520	10.0	11.3	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	2704719	40.0	40.0	
89 Phenanthrene	178	9.029	9.029	0.000	96	799104	10.0	10.6	
90 Anthracene	178	9.076	9.082	-0.006	99	813281	10.0	10.7	
91 Carbazole	167	9.229	9.235	-0.006	96	611177	10.0	10.9	
92 Di-n-butyl phthalate	149	9.571	9.576	-0.005	100	692537	10.0	10.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
93 Fluoranthene	202	10.200	10.206	-0.006	99	669753	10.0	10.2	
94 Benzidine	184	10.323	10.329	-0.006	99	200554	10.0	8.26	
95 Pyrene	202	10.429	10.435	-0.006	98	652635	10.0	10.5	
82 Bisphenol-A	213	10.470	10.471	-0.001	98	116812	10.0	10.0	
\$ 96 Terphenyl-d14	244	10.588	10.594	-0.006	98	499443	10.0	10.0	
97 Butyl benzyl phthalate	149	11.123	11.129	-0.006	97	196419	10.0	10.4	
99 Carbamazepine	193	11.253	11.259	-0.006	93	122570	10.0	9.57	
100 3,3'-Dichlorobenzidine	252	11.765	11.770	-0.006	98	148618	10.0	9.36	
101 Benzo[a]anthracene	228	11.800	11.806	-0.006	96	456765	10.0	9.81	
* 102 Chrysene-d12	240	11.817	11.818	-0.001	98	1608341	40.0	40.0	
104 Bis(2-ethylhexyl) phthalat	149	11.841	11.841	0.000	89	253670	10.0	10.3	
103 Chrysene	228	11.847	11.853	-0.006	100	423922	10.0	10.1	
105 Di-n-octyl phthalate	149	12.723	12.723	0.000	98	324696	10.0	9.87	
106 Benzo[b]fluoranthene	252	13.247	13.253	-0.006	97	344158	10.0	10.3	
107 Benzo[k]fluoranthene	252	13.282	13.288	-0.006	97	356784	10.0	9.93	
108 Benzo[a]pyrene	252	13.700	13.706	-0.006	98	305451	10.0	10.2	
* 109 Perylene-d12	264	13.782	13.788	-0.006	98	1270182	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	15.370	15.382	-0.012	96	265853	10.0	10.4	
111 Dibenz(a,h)anthracene	278	15.411	15.423	-0.012	96	280679	10.0	9.98	
112 Benzo[g,h,i]perylene	276	15.823	15.835	-0.012	95	285369	10.0	9.06	
S 119 Total Cresols	1				0			22.5	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

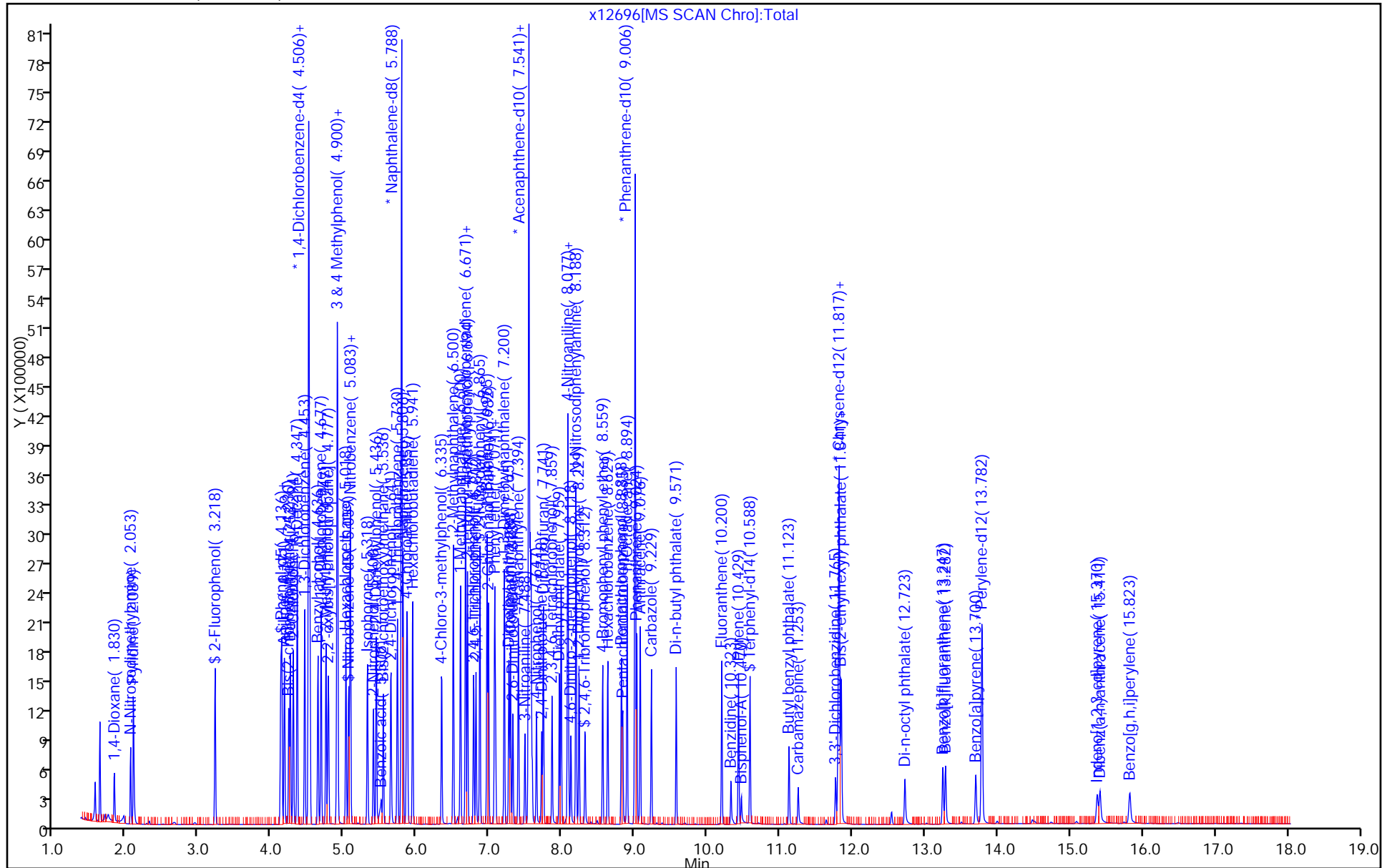
SV_IC_BNA_L4_00010

Amount Added: 1.00

Units: mL

Data File:	\\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160411-39723.b\\x12696.D		
Injection Date:	11-Apr-2016 15:24:30	Instrument ID:	CBNAMS5
Lims ID:	std10		
Client ID:			
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	8270_5R	Limit Group:	SV 8270D ICA
Column:	Rtxi-5Sil MS (0.25 mm)		

Operator ID:
Worklist Smp#: 6
ALS Bottle#: 6



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12697.D
 Lims ID: std5
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 11-Apr-2016 15:48:30 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-007
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub37
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:59:05 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 18:08:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.830	1.818	0.012	97	75817	5.00	5.15	
2 N-Nitrosodimethylamine	74	2.053	2.053	0.000	68	107028	5.00	5.24	
3 Pyridine	79	2.095	2.089	0.006	80	184751	5.00	5.26	
\$ 4 2-Fluorophenol	112	3.218	3.218	0.000	95	226716	5.00	5.41	
\$ 6 Phenol-d5	99	4.118	4.142	-0.024	87	266878	5.00	5.58	
7 Phenol	94	4.130	4.159	-0.029	98	256765	5.00	5.66	
8 Aniline	93	4.171	4.183	-0.012	99	300139	5.00	5.46	
9 Bis(2-chloroethyl)ether	93	4.230	4.247	-0.017	96	188793	5.00	5.19	
10 Benzonitrile	103	4.247	4.277	-0.030	67	394868	NC	NC	
11 2-Chlorophenol	128	4.294	4.306	-0.012	95	217132	5.00	5.53	
12 n-Decane	43	4.347	4.353	-0.006	95	301529	5.00	6.04	
13 1,3-Dichlorobenzene	146	4.453	4.459	-0.006	96	273002	5.00	5.49	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.512	-0.006	96	1155060	40.0	40.0	
15 1,4-Dichlorobenzene	146	4.524	4.530	-0.006	96	269188	5.00	5.51	
16 Benzyl alcohol	108	4.630	4.647	-0.017	92	132815	5.00	5.44	
17 1,2-Dichlorobenzene	146	4.677	4.683	-0.006	96	259479	5.00	5.58	
18 2-Methylphenol	108	4.742	4.759	-0.017	88	196664	5.00	5.73	
19 2,2'-oxybis[1-chloropropan	45	4.777	4.783	-0.006	91	338124	5.00	3.86	
20 N-Methylaniline	106	4.894	4.906	-0.012	81	301973	NC	NC	
24 4-Methylphenol	108	4.894	4.918	-0.024	84	201493	5.00	5.98	
21 Acetophenone	105	4.900	4.918	-0.018	88	250551	5.00	5.96	
23 3 & 4 Methylphenol	108	4.894	4.918	-0.024	81	201493	5.00	5.98	
22 N-Nitrosodi-n-propylamine	70	4.900	4.924	-0.024	95	126504	5.00	5.25	
25 Hexachloroethane	117	5.018	5.024	-0.006	89	93909	5.00	5.32	
\$ 26 Nitrobenzene-d5	82	5.053	5.071	-0.018	93	228451	5.00	5.54	
28 Nitrobenzene	77	5.077	5.094	-0.017	91	281499	5.00	5.38	
27 n,n'-Dimethylaniline	120	5.083	5.094	-0.011	93	324088	5.00	5.45	
31 Isophorone	82	5.312	5.336	-0.024	98	336933	5.00	5.29	
32 2-Nitrophenol	139	5.400	5.406	-0.006	92	101546	5.00	5.15	
33 2,4-Dimethylphenol	122	5.436	5.447	-0.011	91	178651	5.00	5.51	
34 Bis(2-chloroethoxy)methane	93	5.536	5.541	-0.005	99	197192	5.00	5.79	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzoic acid	122	5.489	5.577	-0.088	93	43251	5.00	5.07	
36 2,4-Dichlorophenol	162	5.636	5.647	-0.011	95	171551	5.00	5.10	
37 1,2,4-Trichlorobenzene	180	5.730	5.736	-0.006	94	209486	5.00	5.11	
* 38 Naphthalene-d8	136	5.789	5.794	-0.005	99	3924952	40.0	40.0	
39 Naphthalene	128	5.806	5.812	-0.006	99	575646	5.00	5.56	
40 4-Chloroaniline	127	5.853	5.865	-0.012	96	223634	5.00	5.64	
41 Hexachlorobutadiene	225	5.941	5.941	0.000	96	135378	5.00	4.84	
43 4-Chloro-3-methylphenol	107	6.336	6.347	-0.011	97	144676	5.00	5.47	
44 2-Methylnaphthalene	142	6.500	6.506	-0.006	86	403681	5.00	5.64	
45 1-Methylnaphthalene	142	6.600	6.606	-0.006	93	344604	5.00	5.61	
46 Hexachlorocyclopentadiene	237	6.665	6.671	-0.006	97	121020	5.00	3.97	
47 1,2,4,5-Tetrachlorobenzene	216	6.671	6.677	-0.006	98	194362	5.00	4.79	
48 2-tertbutyl-4-methylphenol	149	6.694	6.700	-0.006	91	271760	5.00	5.80	
49 2,4,6-Trichlorophenol	196	6.777	6.788	-0.011	91	110611	5.00	4.91	
50 2,4,5-Trichlorophenol	196	6.812	6.818	-0.006	97	113287	5.00	4.96	
\$ 51 2-Fluorobiphenyl	172	6.865	6.871	-0.006	98	469398	5.00	5.30	
52 1,1'-Biphenyl	154	6.965	6.971	-0.006	94	469081	5.00	5.37	
53 2-Chloronaphthalene	162	6.983	6.994	-0.011	98	349274	5.00	5.31	
54 Phenyl ether	170	7.071	7.077	-0.006	87	255363	5.00	5.36	
56 2-Nitroaniline	65	7.077	7.088	-0.011	97	102616	5.00	5.13	
57 1,3-Dimethylnaphthalene	156	7.200	7.212	-0.012	94	305143	5.00	5.71	
58 Dimethyl phthalate	163	7.265	7.277	-0.012	100	325385	5.00	5.35	
59 Coumarin	146	7.283	7.300	-0.017	78	100750	5.00	5.83	
60 2,6-Dinitrotoluene	165	7.318	7.330	-0.012	94	69910	5.00	5.14	
61 Acenaphthylene	152	7.394	7.406	-0.012	97	497218	5.00	5.45	
64 3-Nitroaniline	138	7.483	7.500	-0.017	95	70827	5.00	5.20	
* 65 Acenaphthene-d10	164	7.541	7.541	0.000	91	2087313	40.0	40.0	
66 3,5-di-tert-butyl-4-hydrox	205	7.559	7.565	-0.006	96	373023	5.00	4.93	
67 Acenaphthene	154	7.571	7.577	-0.006	93	332398	5.00	5.49	
68 2,4-Dinitrophenol	184	7.583	7.600	-0.017	88	35762	10.0	9.01	
69 4-Nitrophenol	65	7.641	7.659	-0.018	90	73125	10.0	9.08	
70 2,4-Dinitrotoluene	165	7.718	7.730	-0.012	96	76542	5.00	5.01	
71 Dibenzofuran	168	7.735	7.747	-0.012	95	469206	5.00	5.42	
72 2,3,4,6-Tetrachlorophenol	232	7.859	7.865	-0.006	96	79056	5.00	4.50	
73 Diethyl phthalate	149	7.959	7.971	-0.012	99	286500	5.00	5.44	
74 4-Chlorophenyl phenyl ethe	204	8.077	8.082	-0.005	88	179138	5.00	5.03	
75 Fluorene	166	8.077	8.082	-0.005	96	342267	5.00	5.49	
76 4-Nitroaniline	138	8.082	8.106	-0.024	86	52384	5.00	4.84	
77 4,6-Dinitro-2-methylphenol	198	8.118	8.135	-0.017	94	62255	10.0	9.17	
78 N-Nitrosodiphenylamine	169	8.188	8.200	-0.012	67	479133	10.0	10.5	
79 1,2-Diphenylhydrazine	77	8.230	8.241	-0.011	98	284383	5.00	5.53	
\$ 80 2,4,6-Tribromophenol	330	8.312	8.324	-0.012	89	79826	5.00	4.64	
81 4-Bromophenyl phenyl ether	248	8.559	8.565	-0.006	93	106306	5.00	4.64	
83 Hexachlorobenzene	284	8.630	8.635	-0.005	94	128201	5.00	4.68	
85 Pentachlorophenol	266	8.818	8.824	-0.006	95	116252	10.0	9.04	
86 Pentachloronitrobenzene	237	8.829	8.841	-0.012	90	41505	5.00	4.78	
87 n-Octadecane	57	8.894	8.900	-0.006	97	206813	5.00	5.66	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	2881755	40.0	40.0	
89 Phenanthrene	178	9.024	9.029	-0.005	97	421085	5.00	5.22	
90 Anthracene	178	9.077	9.082	-0.005	99	425092	5.00	5.23	
91 Carbazole	167	9.229	9.235	-0.006	96	317836	5.00	5.30	
92 Di-n-butyl phthalate	149	9.571	9.576	-0.005	100	359765	5.00	5.17	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
93 Fluoranthene	202	10.200	10.206	-0.006	99	347763	5.00	4.98	
94 Benzidine	184	10.324	10.329	-0.005	99	111778	5.00	4.32	
95 Pyrene	202	10.429	10.435	-0.006	98	347617	5.00	5.18	
82 Bisphenol-A	213	10.465	10.471	-0.006	98	48904	5.00	6.04	
\$ 96 Terphenyl-d14	244	10.588	10.594	-0.006	98	265667	5.00	4.93	
97 Butyl benzyl phthalate	149	11.123	11.129	-0.006	96	96136	5.00	4.72	
99 Carbamazepine	193	11.253	11.259	-0.006	92	53659	5.00	5.18	
100 3,3'-Dichlorobenzidine	252	11.765	11.770	-0.005	98	73902	5.00	4.31	
101 Benzo[a]anthracene	228	11.800	11.806	-0.006	96	229936	5.00	4.57	
* 102 Chrysene-d12	240	11.818	11.818	0.000	98	1738851	40.0	40.0	
104 Bis(2-ethylhexyl) phthalat	149	11.841	11.841	0.000	87	126694	5.00	4.76	
103 Chrysene	228	11.847	11.853	-0.006	100	218824	5.00	4.82	
105 Di-n-octyl phthalate	149	12.717	12.723	-0.006	97	149302	5.00	4.41	
106 Benzo[b]fluoranthene	252	13.241	13.253	-0.012	97	166733	5.00	4.85	
107 Benzo[k]fluoranthene	252	13.282	13.288	-0.006	97	173911	5.00	4.70	
108 Benzo[a]pyrene	252	13.700	13.706	-0.006	99	145760	5.00	4.72	
* 109 Perylene-d12	264	13.782	13.788	-0.006	98	1307403	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	15.370	15.382	-0.012	96	124760	5.00	4.74	
111 Dibenz(a,h)anthracene	278	15.406	15.423	-0.017	97	126367	5.00	4.37	
112 Benzo[g,h,i]perylene	276	15.817	15.835	-0.018	95	133887	5.00	4.13	
S 119 Total Cresols	1				0			11.7	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SV_IC_BNA_L3_00012

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12697.D

Injection Date: 11-Apr-2016 15:48:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std5

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

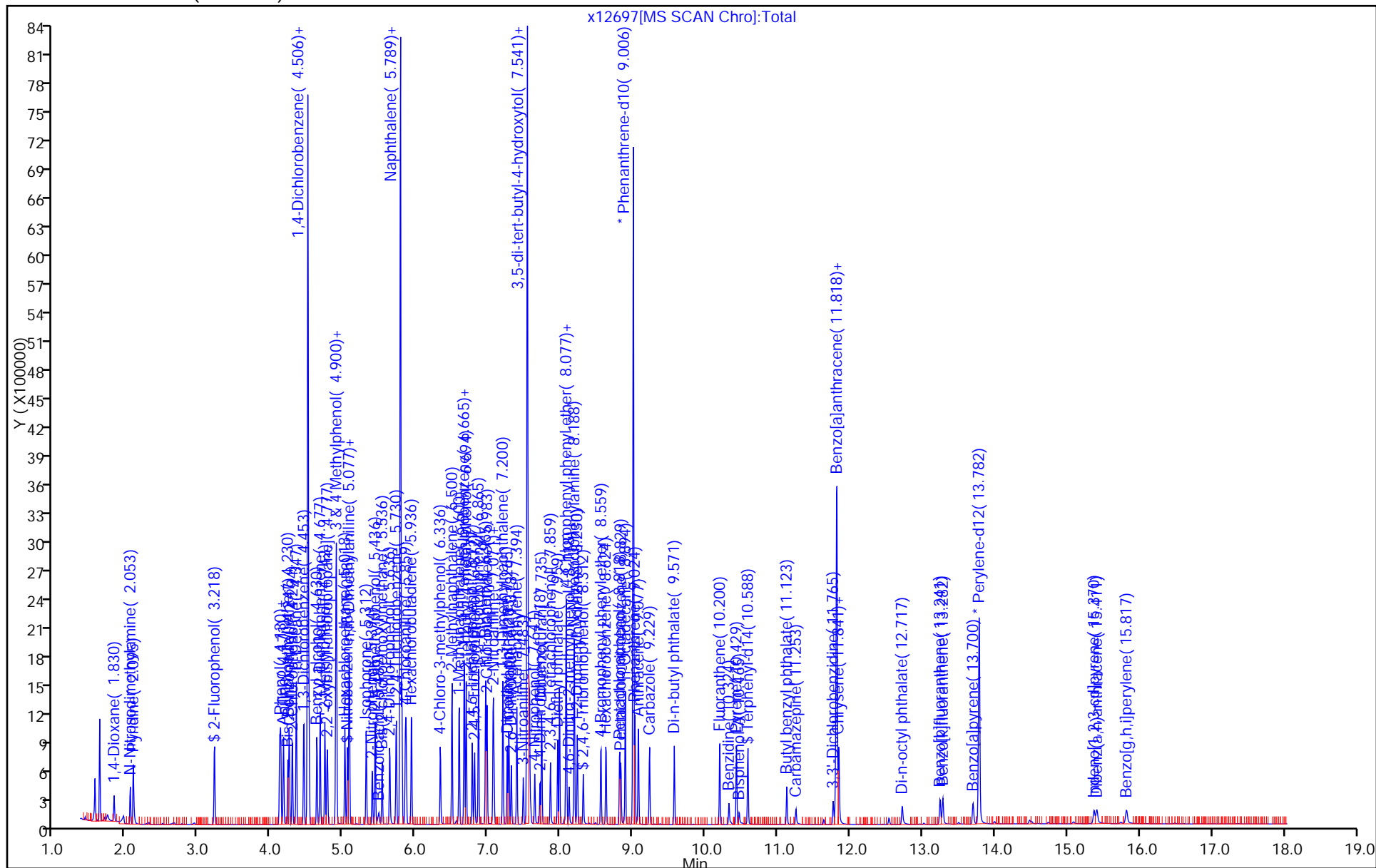
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12698.D
 Lims ID: std2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 11-Apr-2016 16:13:30 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-008
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub37
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:59:10 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 18:09:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
\$ 4 2-Fluorophenol	112	3.218	3.218	0.000	94	95172	2.00	2.37	
\$ 6 Phenol-d5	99	4.118	4.142	-0.024	91	112260	2.00	2.45	
9 Bis(2-chloroethyl)ether	93	4.230	4.247	-0.017	95	80795	2.00	2.32	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.512	-0.006	97	1106984	40.0	40.0	
22 N-Nitrosodi-n-propylamine	70	4.900	4.924	-0.024	94	56633	2.00	2.45	
25 Hexachloroethane	117	5.018	5.024	-0.006	89	38338	2.00	2.27	
\$ 26 Nitrobenzene-d5	82	5.053	5.071	-0.018	92	95048	2.00	2.36	
28 Nitrobenzene	77	5.077	5.094	-0.017	89	117375	2.00	2.30	
27 n,n'-Dimethylaniline	120	5.077	5.094	-0.017	92	133689	2.00	2.34	
31 Isophorone	82	5.312	5.336	-0.024	98	144805	2.00	2.33	
36 2,4-Dichlorophenol	162	5.636	5.647	-0.011	95	66332	2.00	2.02	
37 1,2,4-Trichlorobenzene	180	5.730	5.736	-0.006	94	83890	2.00	2.10	
* 38 Naphthalene-d8	136	5.789	5.794	-0.005	100	3831061	40.0	40.0	
41 Hexachlorobutadiene	225	5.942	5.941	0.001	95	54240	2.00	1.99	
49 2,4,6-Trichlorophenol	196	6.777	6.788	-0.011	88	40474	2.00	1.85	
\$ 51 2-Fluorobiphenyl	172	6.865	6.871	-0.006	98	194117	2.00	2.25	
60 2,6-Dinitrotoluene	165	7.318	7.330	-0.012	93	26759	2.00	2.02	
* 65 Acenaphthene-d10	164	7.541	7.541	0.000	91	2032046	40.0	40.0	
68 2,4-Dinitrophenol	184	7.583	7.600	-0.017	4	8782	4.00	4.56	
70 2,4-Dinitrotoluene	165	7.712	7.730	-0.018	95	28789	2.00	1.94	
77 4,6-Dinitro-2-methylphenol	198	8.118	8.135	-0.017	93	16497	4.00	4.16	
78 N-Nitrosodiphenylamine	169	8.188	8.200	-0.012	66	197863	4.00	4.47	
\$ 80 2,4,6-Tribromophenol	330	8.312	8.324	-0.012	90	28447	2.00	1.70	
83 Hexachlorobenzene	284	8.624	8.635	-0.011	95	47595	2.00	1.79	
85 Pentachlorophenol	266	8.812	8.824	-0.012	95	36033	4.00	2.90	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	2789026	40.0	40.0	
\$ 96 Terphenyl-d14	244	10.588	10.594	-0.006	98	103120	2.00	2.10	
100 3,3'-Dichlorobenzidine	252	11.765	11.770	-0.005	97	23216	2.00	1.49	
101 Benzo[a]anthracene	228	11.800	11.806	-0.006	97	87563	2.00	1.91	
* 102 Chrysene-d12	240	11.818	11.818	0.000	99	1583742	40.0	40.0	
106 Benzo[b]fluoranthene	252	13.241	13.253	-0.012	97	56593	2.00	1.81	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
107 Benzo[k]fluoranthene	252	13.282	13.288	-0.006	96	66463	2.00	1.98	
108 Benzo[a]pyrene	252	13.700	13.706	-0.006	98	53673	2.00	1.92	
* 109 Perylene-d12	264	13.782	13.788	-0.006	98	1185495	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	15.364	15.382	-0.018	96	41550	2.00	1.74	
111 Dibenz(a,h)anthracene	278	15.412	15.423	-0.011	97	44712	2.00	1.70	

Reagents:

SV_IC_BNA_LO_00008

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160411-39723.b\\x12698.D

Injection Date: 11-Apr-2016 16:13:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std2

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

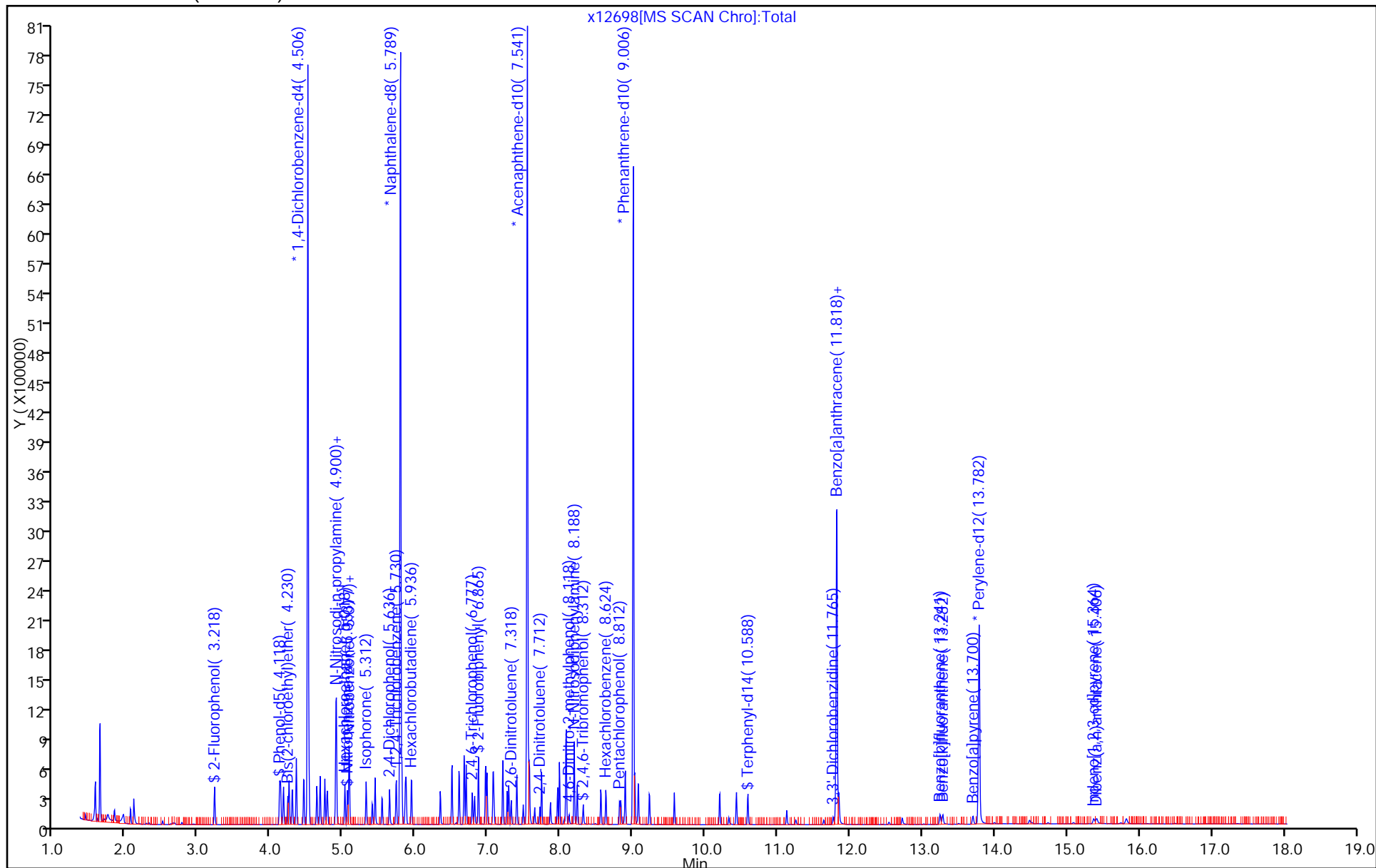
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12699.D
 Lims ID: std1
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 11-Apr-2016 16:37:30 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-009
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub37
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:59:16 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 17:05:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
\$ 4 2-Fluorophenol	112	3.218	3.218	0.000	95	41191	1.00	1.00	
\$ 6 Phenol-d5	99	4.118	4.142	-0.024	94	47278	1.00	1.01	
9 Bis(2-chloroethyl)ether	93	4.230	4.247	-0.017	97	42993	1.00	1.20	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.512	-0.006	97	1134727	40.0	40.0	
22 N-Nitrosodi-n-propylamine	70	4.900	4.924	-0.024	94	28045	1.00	1.18	
25 Hexachloroethane	117	5.018	5.024	-0.006	88	19236	1.00	1.11	
\$ 26 Nitrobenzene-d5	82	5.053	5.071	-0.018	91	40930	1.00	1.01	
28 Nitrobenzene	77	5.077	5.094	-0.017	89	59337	1.00	1.15	
27 n,n'-Dimethylaniline	120	5.083	5.094	-0.011	93	67989	1.00	1.16	
37 1,2,4-Trichlorobenzene	180	5.730	5.736	-0.006	94	43222	1.00	1.07	
* 38 Naphthalene-d8	136	5.789	5.794	-0.005	99	3856551	40.0	40.0	
41 Hexachlorobutadiene	225	5.942	5.941	0.001	96	27869	1.00	1.01	
\$ 51 2-Fluorobiphenyl	172	6.865	6.871	-0.006	98	84898	1.00	0.9627	
60 2,6-Dinitrotoluene	165	7.318	7.330	-0.012	94	13088	1.00	0.9651	
* 65 Acenaphthene-d10	164	7.541	7.541	0.000	91	2079642	40.0	40.0	
70 2,4-Dinitrotoluene	165	7.712	7.730	-0.018	96	13232	1.00	0.8696	
83 Hexachlorobenzene	284	8.624	8.635	-0.011	96	24519	1.00	0.8837	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	98	2916368	40.0	40.0	
\$ 96 Terphenyl-d14	244	10.588	10.594	-0.006	98	47610	1.00	0.9345	
101 Benzo[a]anthracene	228	11.800	11.806	-0.006	96	48386	1.00	1.02	
* 102 Chrysene-d12	240	11.818	11.818	0.000	99	1642671	40.0	40.0	
106 Benzo[b]fluoranthene	252	13.241	13.253	-0.012	97	29739	1.00	0.9037	
107 Benzo[k]fluoranthene	252	13.276	13.288	-0.012	96	34387	1.00	0.9724	
108 Benzo[a]pyrene	252	13.694	13.706	-0.012	98	26202	1.00	0.8863	
* 109 Perylene-d12	264	13.782	13.788	-0.006	98	1250735	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	15.365	15.382	-0.018	95	20113	1.00	0.7983	
111 Dibenz(a,h)anthracene	278	15.406	15.423	-0.017	96	22166	1.00	0.8004	

Reagents:

SV_IC_BNA_L2_00010

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160411-39723.b\\x12699.D

Injection Date: 11-Apr-2016 16:37:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std1

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

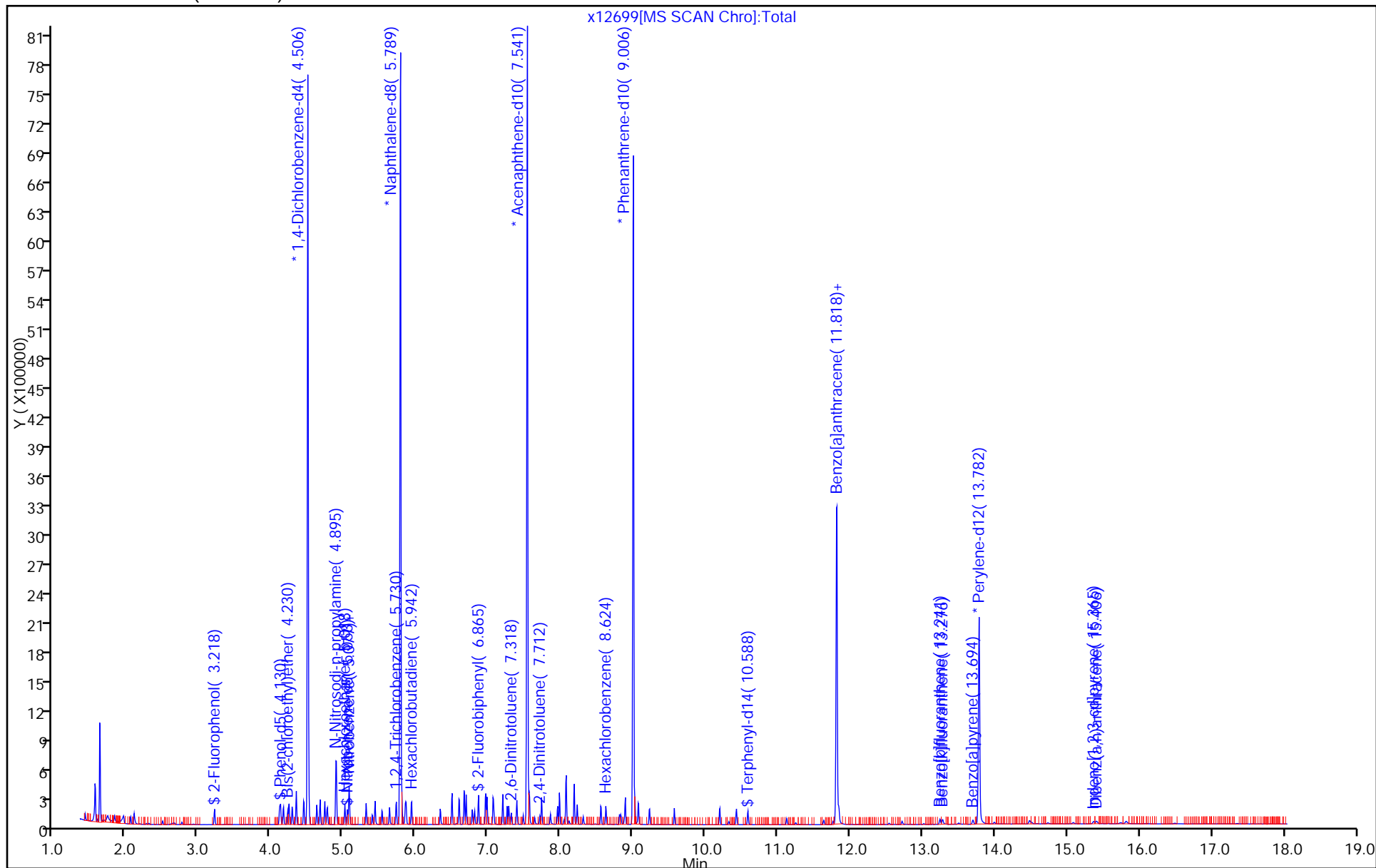
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12700.D
 Lims ID: std05
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 11-Apr-2016 17:01:30 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-010
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub37
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:59:22 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 18:09:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
9 Bis(2-chloroethyl)ether	93	4.230	4.247	-0.017	96	21887	0.5000	0.5854	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.512	-0.006	97	1187058	40.0	40.0	
22 N-Nitrosodi-n-propylamine	70	4.900	4.924	-0.024	89	15636	0.5000	0.6310	
25 Hexachloroethane	117	5.018	5.024	-0.006	87	10106	0.5000	0.5574	
\$ 26 Nitrobenzene-d5	82	5.053	5.071	-0.018	93	19124	0.5000	0.4462	
28 Nitrobenzene	77	5.077	5.094	-0.017	89	31417	0.5000	0.5786	
27 n,n'-Dimethylaniline	120	5.083	5.094	-0.011	93	36685	0.5000	0.5999	
37 1,2,4-Trichlorobenzene	180	5.730	5.736	-0.006	94	23161	0.5000	0.5438	
* 38 Naphthalene-d8	136	5.789	5.794	-0.005	99	4075837	40.0	40.0	
\$ 51 2-Fluorobiphenyl	172	6.865	6.871	-0.006	98	46593	0.5000	0.5041	
* 65 Acenaphthene-d10	164	7.541	7.541	0.000	91	2179817	40.0	40.0	
83 Hexachlorobenzene	284	8.624	8.635	-0.011	94	13478	0.5000	0.4677	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	3029113	40.0	40.0	
\$ 96 Terphenyl-d14	244	10.588	10.594	-0.006	98	23557	0.5000	0.4512	
101 Benzo[a]anthracene	228	11.806	11.806	0.000	96	27989	0.5000	0.5743	
* 102 Chrysene-d12	240	11.818	11.818	0.000	98	1683500	40.0	40.0	
106 Benzo[b]fluoranthene	252	13.241	13.253	-0.012	97	15118	0.5000	0.4515	
107 Benzo[k]fluoranthene	252	13.276	13.288	-0.012	98	17287	0.5000	0.4804	M
108 Benzo[a]pyrene	252	13.700	13.706	-0.006	98	12379	0.5000	0.4115	
* 109 Perylene-d12	264	13.782	13.788	-0.006	98	1272716	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	15.364	15.382	-0.018	96	10791	0.5000	0.4209	
111 Dibenz(a,h)anthracene	278	15.406	15.423	-0.017	95	11633	0.5000	0.4128	M

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SV_IC_BNA_L1_00011

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160411-39723.b\\x12700.D

Injection Date: 11-Apr-2016 17:01:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std05

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

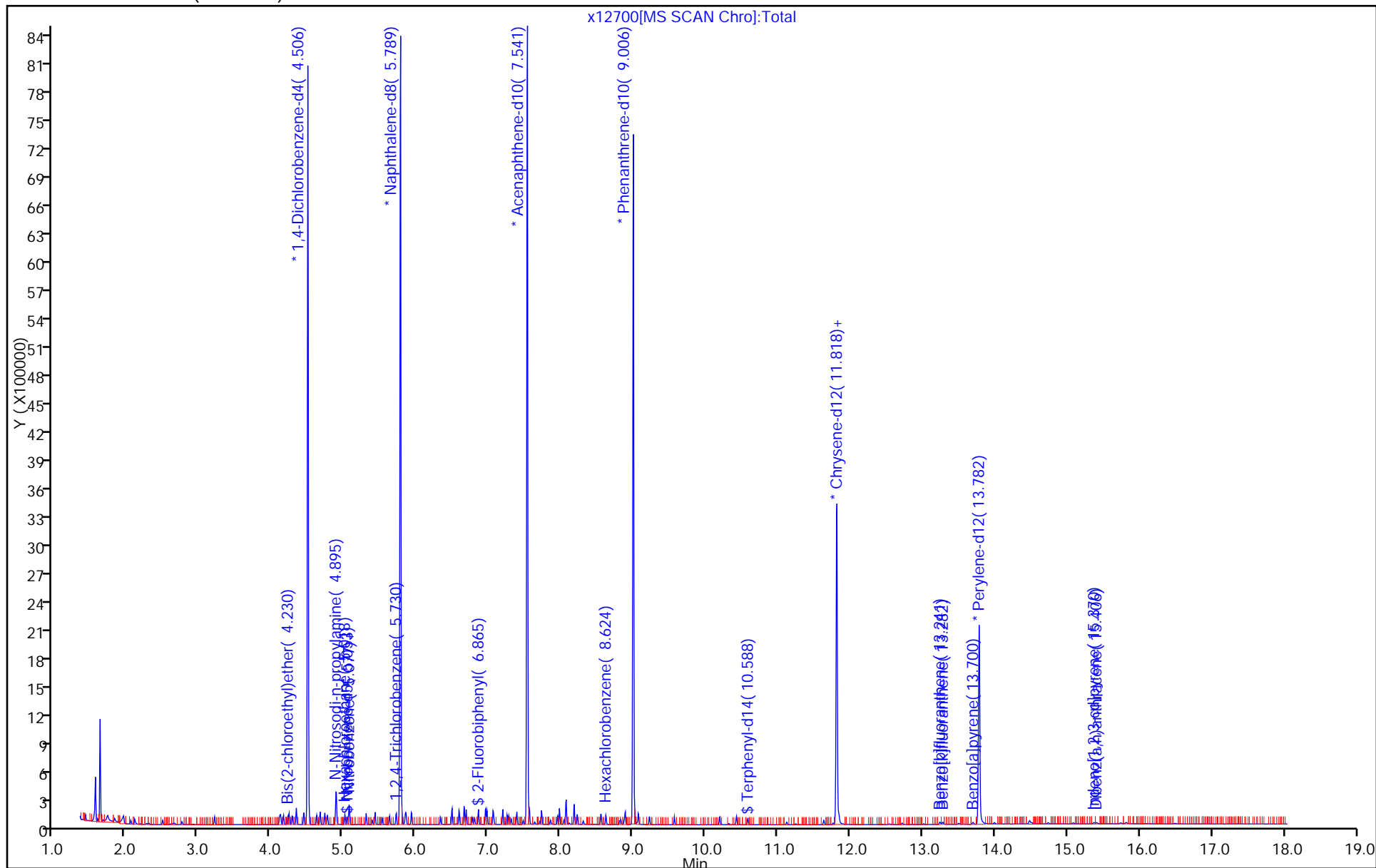
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12700.D

Injection Date: 11-Apr-2016 17:01:30

Instrument ID: CBNAMS5

Lims ID: std05

Client ID:

Operator ID:

ALS Bottle#:

10

Worklist Smp#:

10

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270_5R

Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

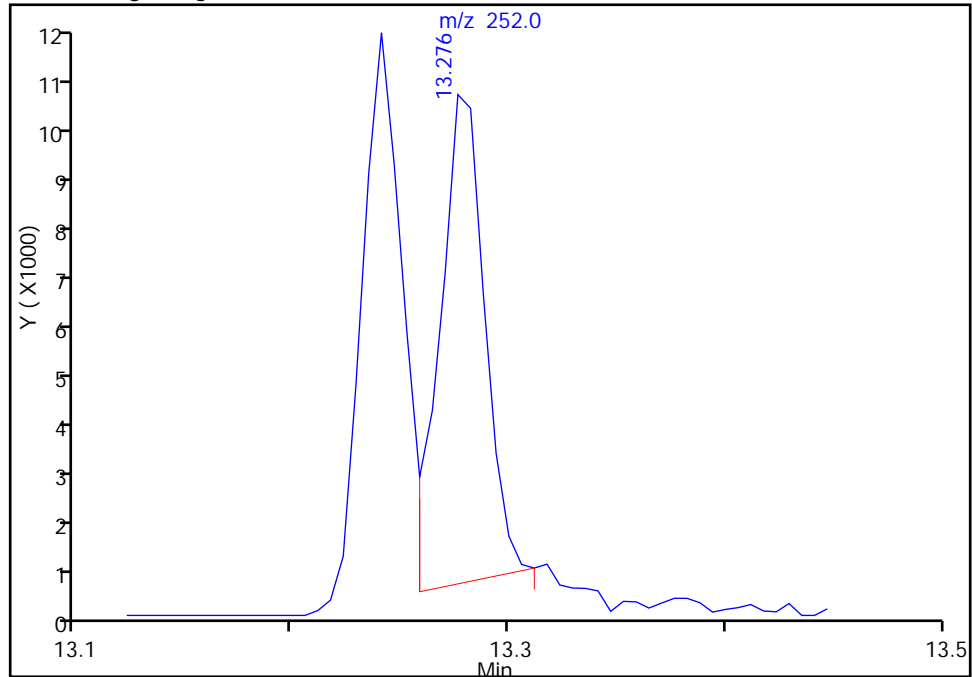
Detector

MS SCAN

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

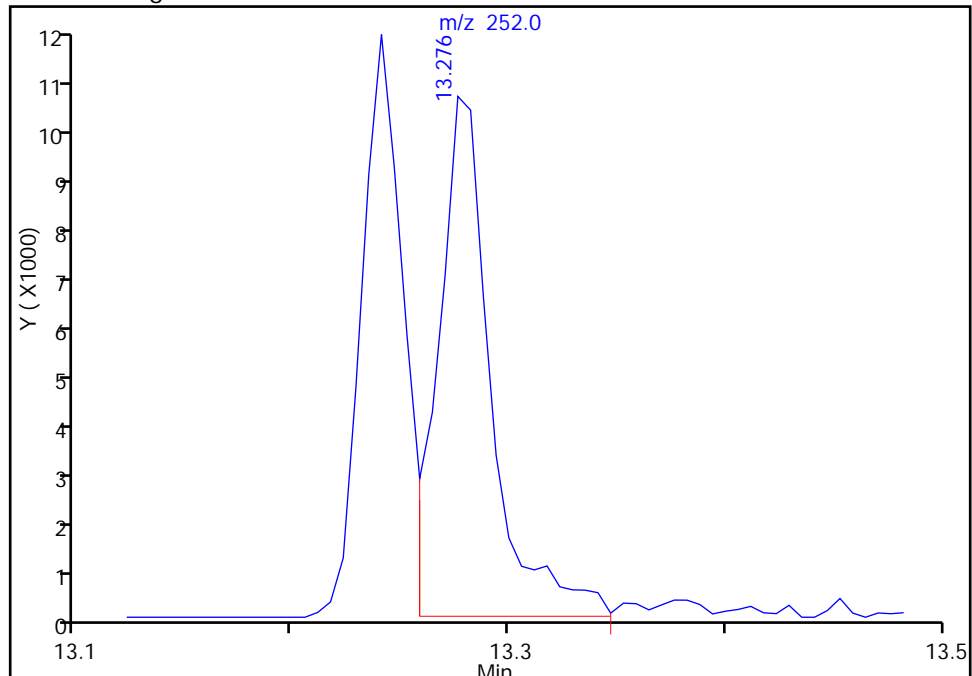
RT: 13.28
Area: 13836
Amount: 0.392868
Amount Units: ug/ml

Processing Integration Results



RT: 13.28
Area: 17287
Amount: 0.480396
Amount Units: ug/ml

Manual Integration Results



Reviewer: croccom, 11-Apr-2016 18:09:57

Audit Action: Manually Integrated

Audit Reason: Baseline

TestAmerica Edison

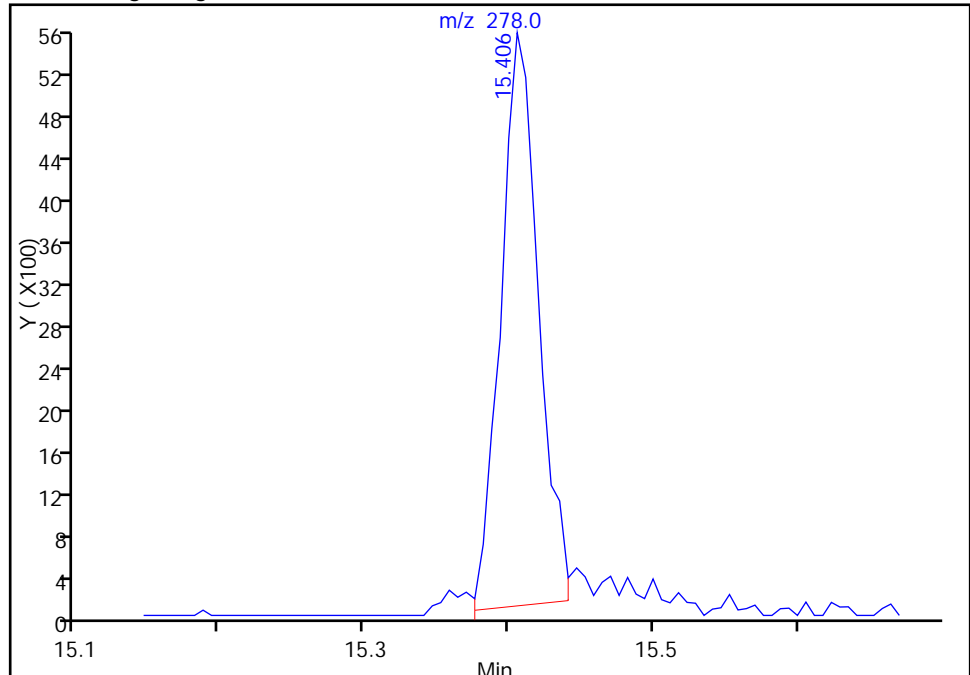
Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12700.D
Injection Date: 11-Apr-2016 17:01:30 Instrument ID: CBNAMS5
Lims ID: std05
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R
Column: Rtxi-5Sil MS (0.25 mm)

ALS Bottle#: 10 Worklist Smp#: 10
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL
Detector: MS SCAN

111 Dibenz(a,h)anthracene, CAS: 53-70-3

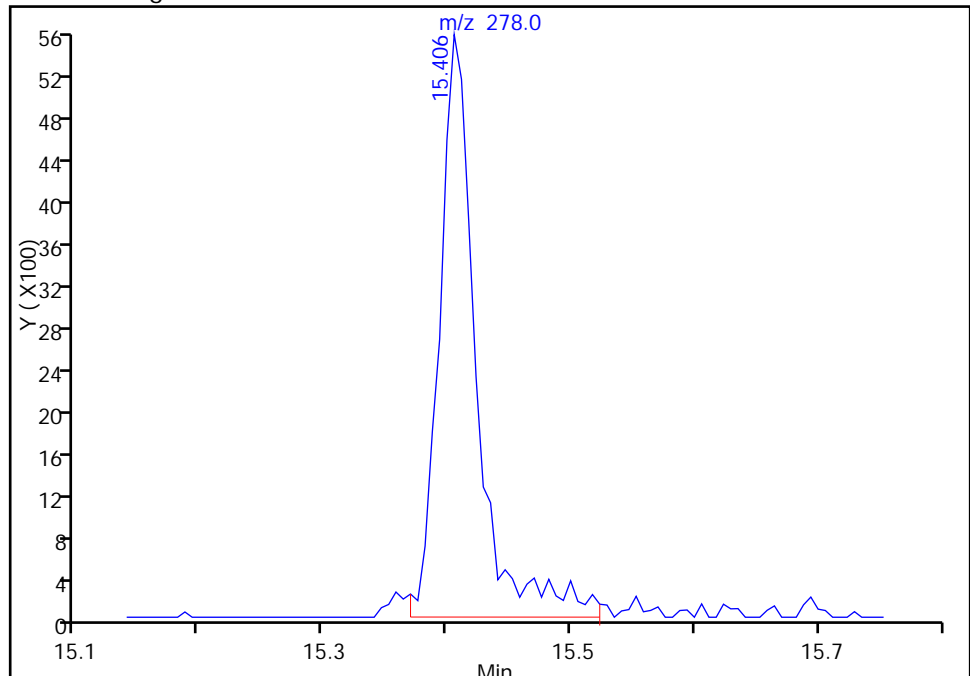
RT: 15.41
Area: 9907
Amount: 0.340754
Amount Units: ug/ml

Processing Integration Results



RT: 15.41
Area: 11633
Amount: 0.412827
Amount Units: ug/ml

Manual Integration Results



Reviewer: croccom, 11-Apr-2016 18:35:59
Audit Action: Manually Integrated
Audit Reason: Baseline

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

Lab Name: TestAmerica Edison Job No.: 460-112069-1 Analy Batch No.: 361914

SDG No.: _____

Instrument ID: CBNAM5 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2016 17:25 Calibration End Date: 04/11/2016 19:51 Calibration ID: 55296

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD2 460-361914/17	x12707.D
Level 2	STD5 460-361914/16	x12706.D
Level 3	STD10 460-361914/15	x12705.D
Level 4	STD20 460-361914/14	x12704.D
Level 5	STD50 460-361914/11	x12701.D
Level 6	STD80 460-361914/13	x12703.D
Level 7	STD120 460-361914/12	x12702.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzaldehyde	1.3444 0.8989	1.2708 0.8780	1.2192	1.1746	0.9989	Ave		1.1121			0.0100	16.7		20.0			
Caprolactam	0.0540 0.0843	0.0642 0.0815	0.0773	0.0859	0.0909	Ave		0.0769			0.0100	17.1		20.0			
Atrazine	0.1906 0.2005	0.2068 0.1897	0.2041	0.2177	0.2203	Ave		0.2042			0.0100	5.8		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 Edison Job No.: 460-112069-1 Analy Batch No.: 361914

SDG No.: _____

Instrument ID: CBNAM5 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/11/2016 17:25 Calibration End Date: 04/11/2016 19:51 Calibration ID: 55296

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD2 460-361914/17	x12707.D
Level 2	STD5 460-361914/16	x12706.D
Level 3	STD10 460-361914/15	x12705.D
Level 4	STD20 460-361914/14	x12704.D
Level 5	STD50 460-361914/11	x12701.D
Level 6	STD80 460-361914/13	x12703.D
Level 7	STD120 460-361914/12	x12702.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzaldehyde	DCB	Ave	76337 2224145	190614 3020014	351870	687558	1422910	2.00 80.0	5.00 120	10.0	20.0	50.0
Caprolactam	NPT	Ave	10278 704346	32499 945567	76124	168615	433831	2.00 80.0	5.00 120	10.0	20.0	50.0
Atrazine	PHN	Ave	26407 1322526	77975 1671435	154484	328047	837458	2.00 80.0	5.00 120	10.0	20.0	50.0

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12701.D
 Lims ID: std50
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 11-Apr-2016 17:25:30 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-011
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub34
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:59:29 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 18:10:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.071	4.071	0.000	88	1422910	50.0	44.9	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	97	1139635	40.0	40.0	
* 38 Naphthalene-d8	136	5.783	5.783	0.000	100	3816657	40.0	40.0	
42 Caprolactam	113	6.194	6.194	0.000	88	433831	50.0	59.2	
* 65 Acenaphthene-d10	164	7.541	7.541	0.000	91	2129057	40.0	40.0	
84 Atrazine	200	8.718	8.718	0.000	94	837458	50.0	53.9	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	3041762	40.0	40.0	
* 102 Chrysene-d12	240	11.812	11.812	0.000	98	1916690	40.0	40.0	
* 109 Perylene-d12	264	13.782	13.782	0.000	98	1440558	40.0	40.0	

Reagents:

SV_IC-S_L6_00018

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160411-39723.b\\x12701.D

Injection Date: 11-Apr-2016 17:25:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std50

Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 ul

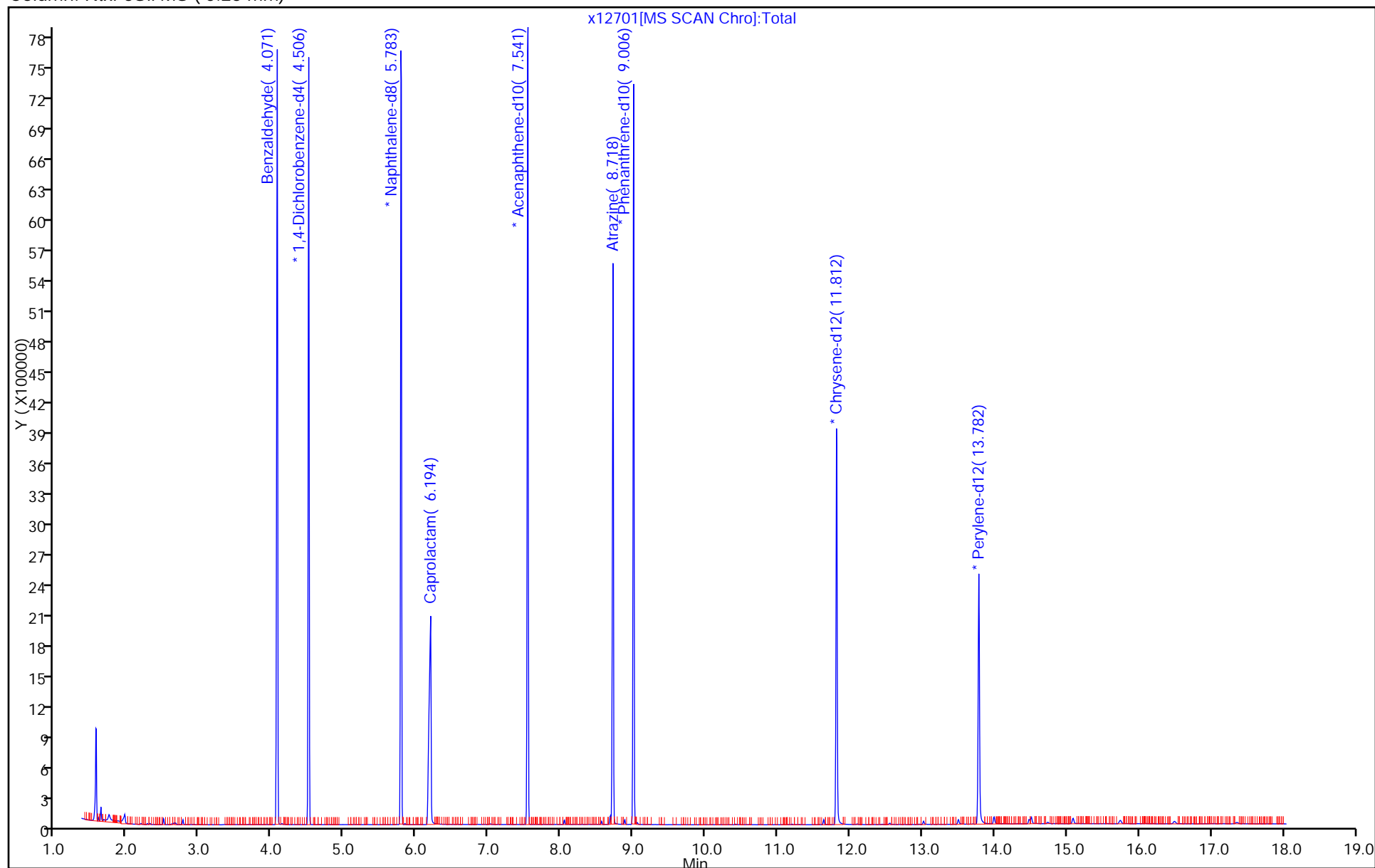
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12702.D
 Lims ID: std120
 Client ID:
 Sample Type: IC Calib Level: 9
 Inject. Date: 11-Apr-2016 17:49:30 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-012
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub34
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:59:34 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 18:14:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.083	4.071	0.012	89	3020014	120.0	94.7	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	97	1146570	40.0	40.0	
* 38 Naphthalene-d8	136	5.789	5.783	0.006	100	3866877	40.0	40.0	
42 Caprolactam	113	6.218	6.194	0.024	87	945567	120.0	127.3	
* 65 Acenaphthene-d10	164	7.541	7.541	0.000	91	2080128	40.0	40.0	
84 Atrazine	200	8.730	8.718	0.012	94	1671435	120.0	111.5	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	2936739	40.0	40.0	
* 102 Chrysene-d12	240	11.812	11.812	0.000	98	1803876	40.0	40.0	
* 109 Perylene-d12	264	13.782	13.782	0.000	99	1362621	40.0	40.0	

Reagents:

SV_IC-S_L8_00005

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160411-39723.b\\x12702.D

Injection Date: 11-Apr-2016 17:49:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std120

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

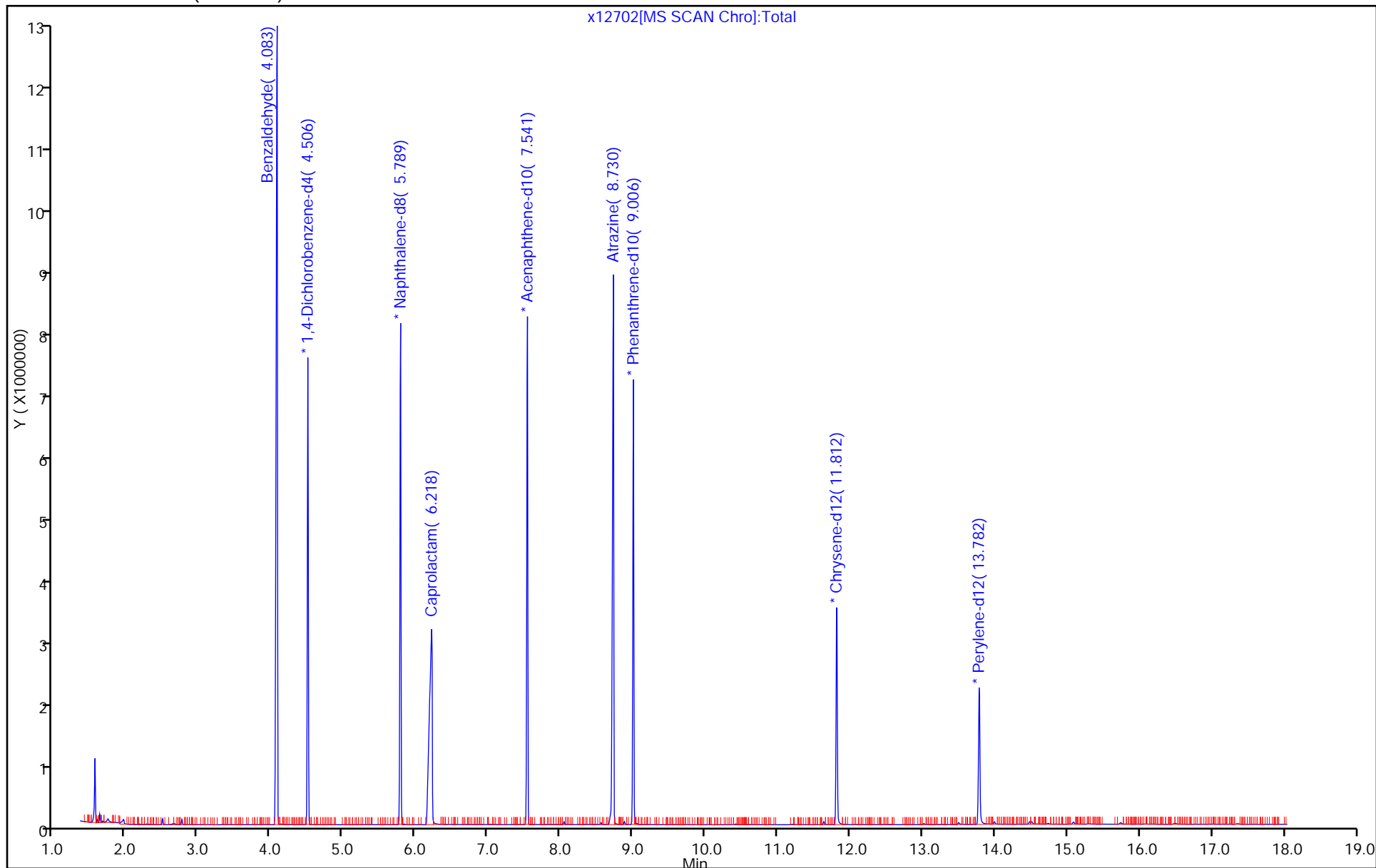
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12703.D
 Lims ID: std80
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 11-Apr-2016 18:14:30 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-013
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub34
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:59:39 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 18:44:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.077	4.071	0.006	88	2224145	80.0	64.7	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	97	1237216	40.0	40.0	
* 38 Naphthalene-d8	136	5.788	5.783	0.005	99	4179349	40.0	40.0	
42 Caprolactam	113	6.206	6.194	0.012	89	704346	80.0	87.7	
* 65 Acenaphthene-d10	164	7.541	7.541	0.000	91	2264360	40.0	40.0	
84 Atrazine	200	8.724	8.718	0.006	94	1322526	80.0	78.5	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	3298733	40.0	40.0	
* 102 Chrysene-d12	240	11.817	11.812	0.005	98	2069053	40.0	40.0	
* 109 Perylene-d12	264	13.782	13.782	0.000	98	1583007	40.0	40.0	

Reagents:

SV_IC-S_L7_00005

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12703.D

Injection Date: 11-Apr-2016 18:14:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std80

Worklist Smp#: 13

Client ID:

Injection Vol: 1.0 ul

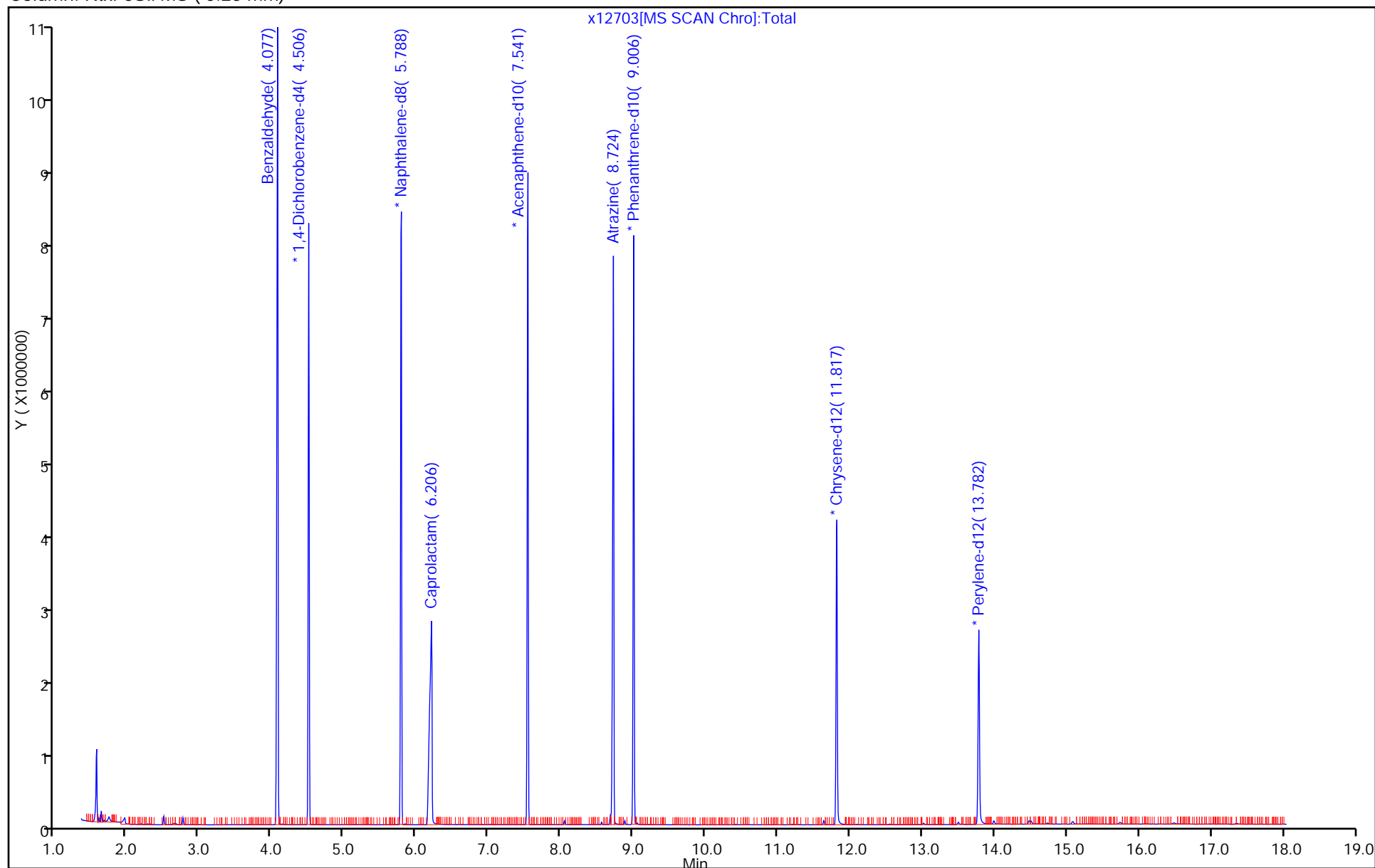
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12704.D
 Lims ID: std20
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 11-Apr-2016 18:38:30 ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-014
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub34
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:59:43 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 19:20:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.065	4.071	-0.006	89	687558	20.0	21.1	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	97	1170758	40.0	40.0	
* 38 Naphthalene-d8	136	5.789	5.783	0.006	99	3926462	40.0	40.0	
42 Caprolactam	113	6.177	6.194	-0.017	88	168615	20.0	22.3	
* 65 Acenaphthene-d10	164	7.541	7.541	0.000	91	2099362	40.0	40.0	
84 Atrazine	200	8.712	8.718	-0.006	94	328047	20.0	21.3	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	3013693	40.0	40.0	
* 102 Chrysene-d12	240	11.818	11.812	0.006	98	1727847	40.0	40.0	
* 109 Perylene-d12	264	13.782	13.782	0.000	99	1270016	40.0	40.0	

Reagents:

SV_IC-S_L5_00008

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160411-39723.b\\x12704.D

Injection Date: 11-Apr-2016 18:38:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std20

Worklist Smp#: 14

Client ID:

Injection Vol: 1.0 ul

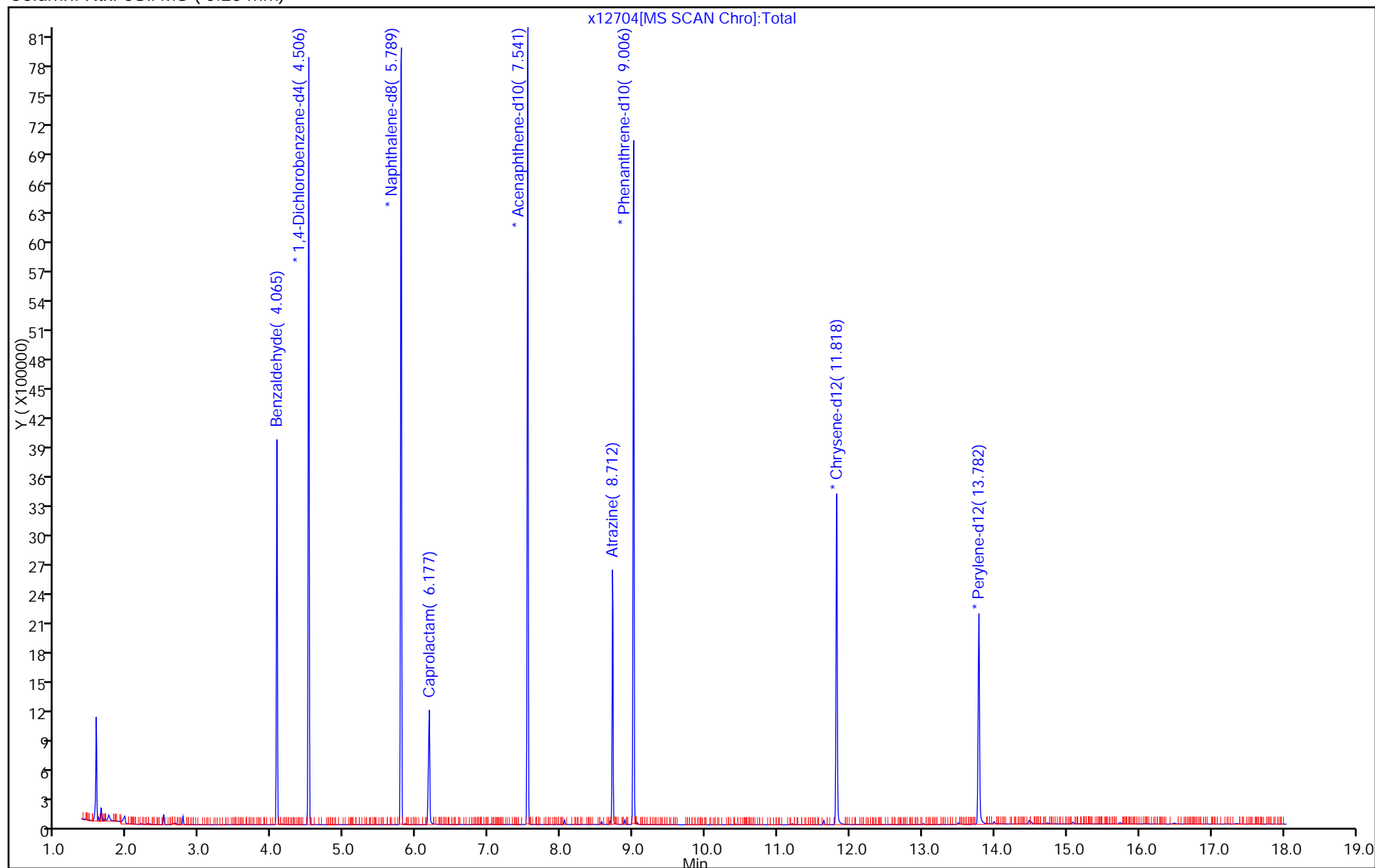
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12705.D
 Lims ID: std10
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 11-Apr-2016 19:03:30 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-015
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub34
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:59:47 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 19:35:13

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.065	4.071	-0.006	89	351870	10.0	11.0	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	97	1154464	40.0	40.0	
* 38 Naphthalene-d8	136	5.788	5.783	0.005	100	3941468	40.0	40.0	
42 Caprolactam	113	6.165	6.194	-0.029	90	76124	10.0	10.1	
* 65 Acenaphthene-d10	164	7.541	7.541	0.000	90	2144312	40.0	40.0	
84 Atrazine	200	8.712	8.718	-0.006	94	154484	10.0	10.0	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	3027075	40.0	40.0	
* 102 Chrysene-d12	240	11.812	11.812	0.000	98	1672179	40.0	40.0	
* 109 Perylene-d12	264	13.782	13.782	0.000	98	1267081	40.0	40.0	

Reagents:

SV_IC-S_L4_00020

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160411-39723.b\\x12705.D

Injection Date: 11-Apr-2016 19:03:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std10

Worklist Smp#: 15

Client ID:

Injection Vol: 1.0 ul

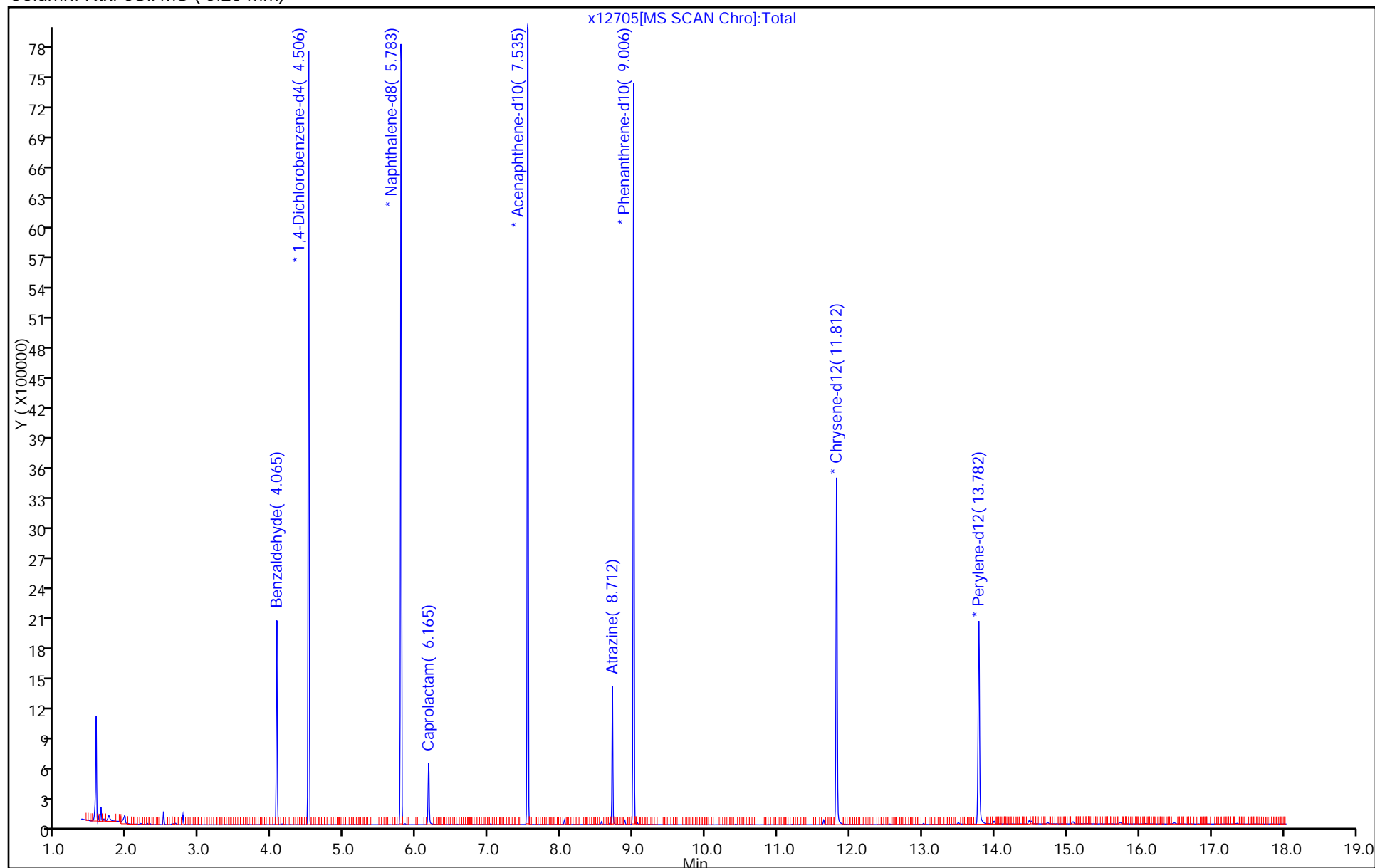
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12706.D
 Lims ID: std5
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 11-Apr-2016 19:27:30 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-016
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub34
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:59:51 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 19:51:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.065	4.071	-0.006	90	190614	5.00	5.71	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	97	1199939	40.0	40.0	
* 38 Naphthalene-d8	136	5.783	5.783	0.000	99	4047184	40.0	40.0	
42 Caprolactam	113	6.165	6.194	-0.029	90	32499	5.00	4.18	
* 65 Acenaphthene-d10	164	7.541	7.541	0.000	91	2181136	40.0	40.0	
84 Atrazine	200	8.712	8.718	-0.006	94	77975	5.00	5.06	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	3017017	40.0	40.0	
* 102 Chrysene-d12	240	11.812	11.812	0.000	98	1704835	40.0	40.0	
* 109 Perylene-d12	264	13.782	13.782	0.000	98	1288351	40.0	40.0	

Reagents:

SV_IC-S_L3_00010

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160411-39723.b\\x12706.D

Injection Date: 11-Apr-2016 19:27:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std5

Worklist Smp#: 16

Client ID:

Injection Vol: 1.0 ul

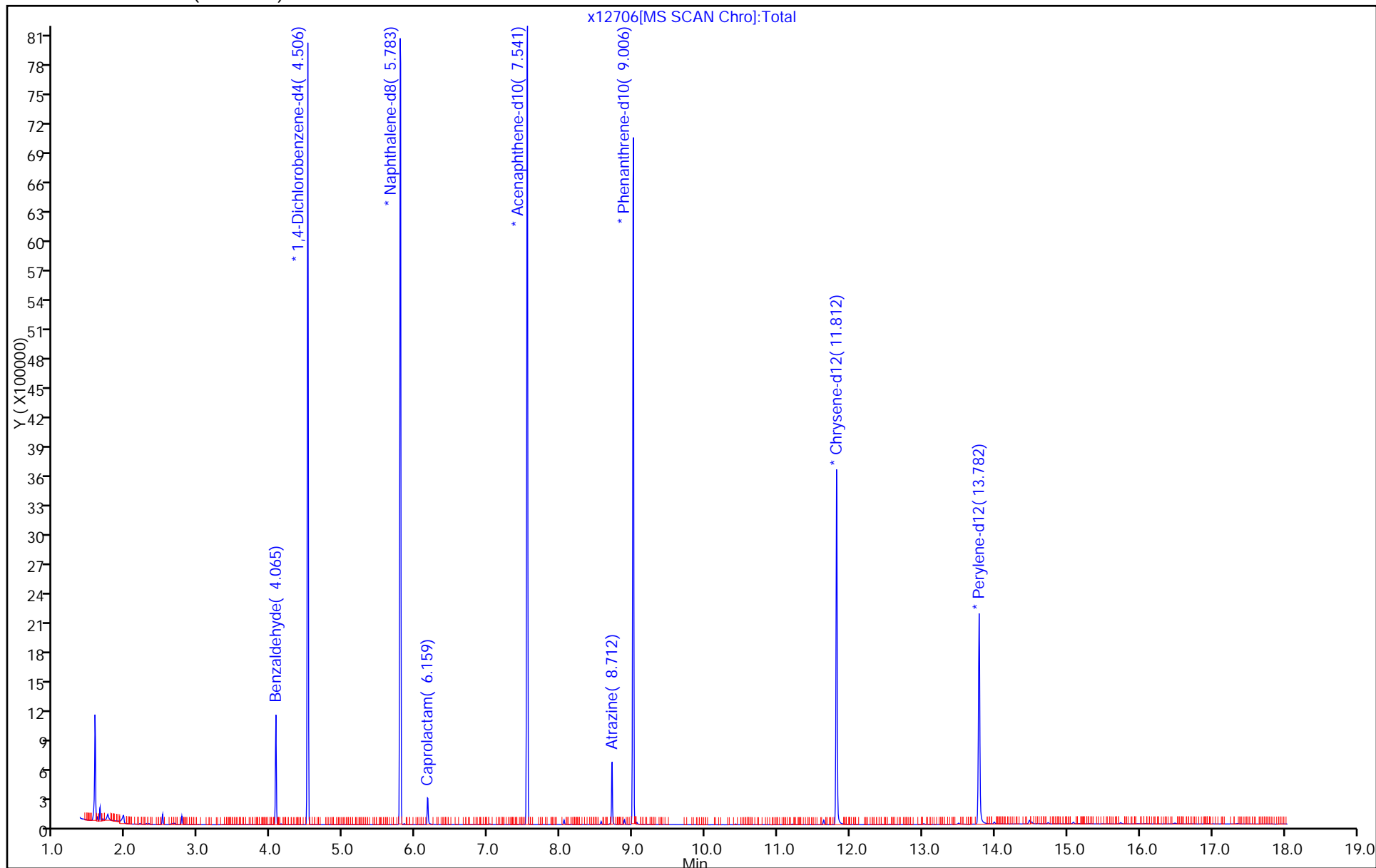
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Lims ID: std2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 11-Apr-2016 19:51:30 ALS Bottle#: 17 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-017
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub34
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:59:55 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 20:13:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.065	4.071	-0.006	91	76337	2.00	2.42	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	97	1135601	40.0	40.0	
* 38 Naphthalene-d8	136	5.783	5.783	0.000	100	3810177	40.0	40.0	
42 Caprolactam	113	6.159	6.194	-0.035	89	10278	2.00	1.40	
* 65 Acenaphthene-d10	164	7.541	7.541	0.000	91	2017081	40.0	40.0	
84 Atrazine	200	8.706	8.718	-0.012	94	26407	2.00	1.87	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	2771010	40.0	40.0	
* 102 Chrysene-d12	240	11.812	11.812	0.000	98	1538027	40.0	40.0	
* 109 Perylene-d12	264	13.782	13.782	0.000	98	1179944	40.0	40.0	

Reagents:

SV_IC-S_L2_00008

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160411-39723.b\\x12707.D

Injection Date: 11-Apr-2016 19:51:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: std2

Worklist Smp#: 17

Client ID:

Injection Vol: 1.0 ul

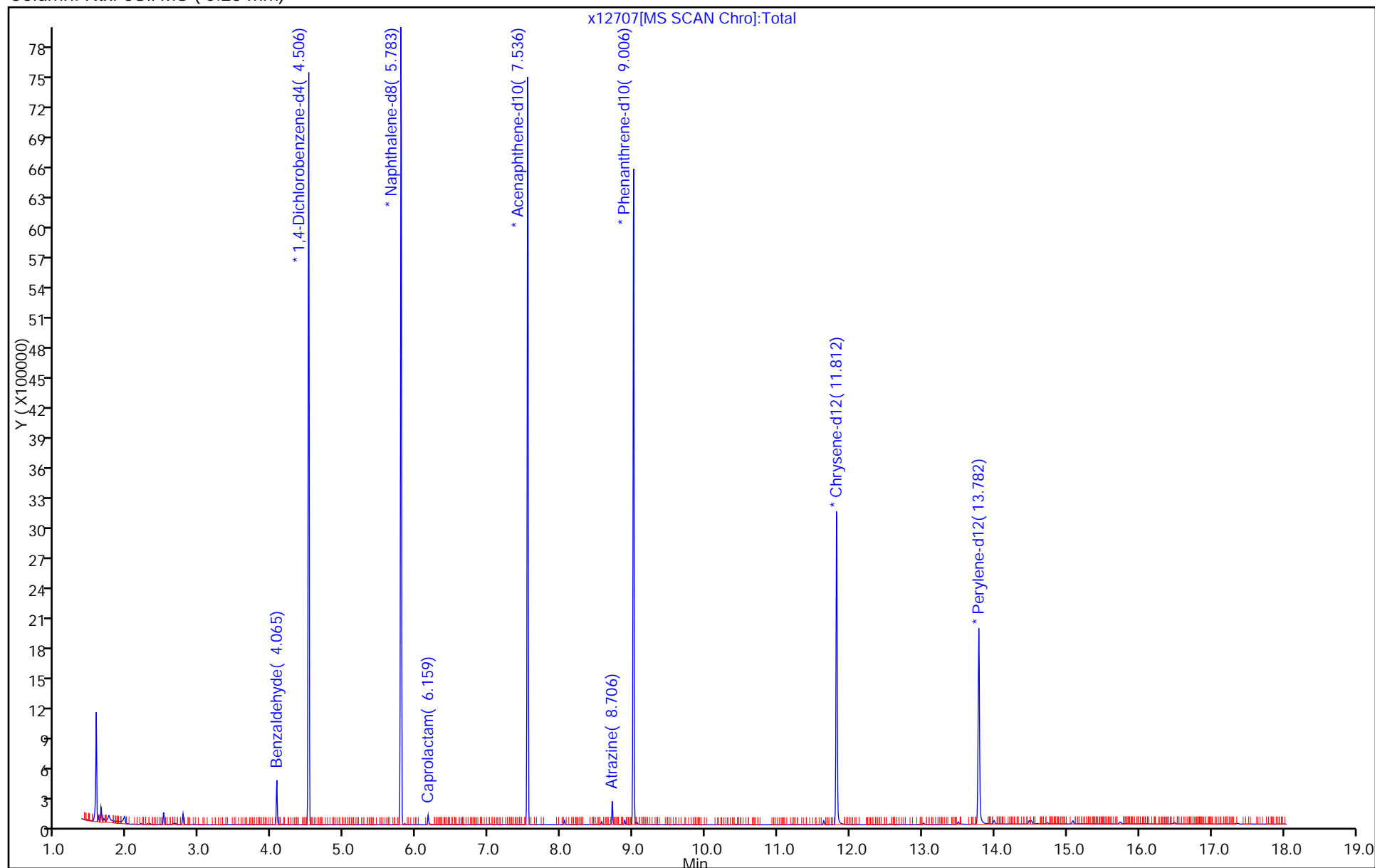
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112069-1

SDG No.: _____

Lab Sample ID: ICV 460-361914/18 Calibration Date: 04/11/2016 20:16

Instrument ID: CBNAMS5 Calib Start Date: 04/11/2016 13:47

GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 04/11/2016 17:01

Lab File ID: x12708.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5097	0.5516	0.0100	27100	25000	8.2	30.0
N-Nitrosodimethylamine	Ave	0.7072	0.6814		24100	25000	-3.7	30.0
Pyridine	Ave	1.217	1.296		26600	25000	6.5	30.0
Phenol	Ave	1.570	1.764	0.8000	28100	25000	12.3	30.0
Aniline	Ave	1.905	1.965		25800	25000	3.1	30.0
Bis(2-chloroethyl)ether	Ave	1.260	1.207	0.7000	24000	25000	-4.2	30.0
2-Chlorophenol	Ave	1.360	1.453	0.8000	26700	25000	6.8	30.0
n-Decane	Ave	1.730	1.789	0.0100	25900	25000	3.4	30.0
1,3-Dichlorobenzene	Ave	1.723	1.814		26300	25000	5.3	30.0
1,4-Dichlorobenzene	Ave	1.692	1.742		25700	25000	2.9	30.0
Benzyl alcohol	Ave	0.8449	0.8911	0.0100	26400	25000	5.5	30.0
1,2-Dichlorobenzene	Ave	1.611	1.658		25700	25000	3.0	30.0
2-Methylphenol	Ave	1.189	1.261	0.7000	26500	25000	6.0	30.0
2,2'-oxybis[1-chloropropane]	Qua		1.969	0.0100	25800	25000	3.0	30.0
3 & 4 Methylphenol	Ave	1.167	1.114		23900	25000	-4.5	30.0
4-Methylphenol	Ave	1.167	1.114	0.6000	23900	25000	-4.5	30.0
Acetophenone	Ave	1.457	1.392	0.0100	23900	25000	-4.4	30.0
N-Nitrosodi-n-propylamine	Ave	0.8351	0.7150	0.5000	21400	25000	-14.4	30.0
Hexachloroethane	Ave	0.6110	0.6199	0.3000	25400	25000	1.5	30.0
n,n'-Dimethylaniline	Ave	2.061	1.796	0.0100	21800	25000	-12.8	30.0
Nitrobenzene	Ave	0.5329	0.5068	0.2000	23800	25000	-4.9	30.0
Isophorone	Ave	0.6493	0.6657	0.4000	25600	25000	2.5	30.0
2-Nitrophenol	Ave	0.2008	0.2089	0.1000	26000	25000	4.0	30.0
2,4-Dimethylphenol	Ave	0.3303	0.3386	0.2000	25600	25000	2.5	30.0
Bis(2-chloroethoxy)methane	Ave	0.3472	0.3685	0.3000	26500	25000	6.1	30.0
Benzoic acid	Lin2		0.1522		26800	25000	7.4	30.0
2,4-Dichlorophenol	Ave	0.3429	0.3666	0.2000	26700	25000	6.9	30.0
1,2,4-Trichlorobenzene	Ave	0.4180	0.4208		25200	25000	0.7	30.0
Naphthalene	Ave	1.055	1.097	0.7000	26000	25000	4.0	30.0
4-Chloroaniline	Ave	0.4041	0.4009	0.0100	24800	25000	-0.8	30.0
Hexachlorobutadiene	Ave	0.2848	0.2871	0.0100	25200	25000	0.8	30.0
4-Chloro-3-methylphenol	Ave	0.2697	0.2893		26800	25000	7.3	30.0
2-Methylnaphthalene	Ave	0.7292	0.7257	0.4000	24900	25000	-0.5	30.0
1-Methylnaphthalene	Ave	0.6260	0.6794	0.0100	27100	25000	8.5	30.0
Hexachlorocyclopentadiene	Ave	0.5848	0.4148	0.0500	17700	25000	-29.1	30.0
1,2,4,5-Tetrachlorobenzene	Ave	0.7781	0.7876	0.0100	25300	25000	1.2	30.0
2-tertbutyl-4-methylphenol	Ave	0.4777	0.4857	0.0100	25400	25000	1.7	30.0
2,4,6-Trichlorophenol	Ave	0.4313	0.4528	0.2000	26200	25000	5.0	30.0
2,4,5-Trichlorophenol	Ave	0.4378	0.4542	0.2000	25900	25000	3.7	30.0
1,1'-Biphenyl	Ave	1.673	1.751	0.0100	26200	25000	4.7	30.0
2-Chloronaphthalene	Ave	1.260	1.329	0.8000	26400	25000	5.5	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112069-1

SDG No.: _____

Lab Sample ID: ICV 460-361914/18 Calibration Date: 04/11/2016 20:16

Instrument ID: CBNAMS5 Calib Start Date: 04/11/2016 13:47

GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 04/11/2016 17:01

Lab File ID: x12708.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Phenyl ether	Ave	0.9128	0.9571	0.0100	26200	25000	4.9	30.0
2-Nitroaniline	Ave	0.3834	0.4071	0.0100	26500	25000	6.2	30.0
1,3-Dimethylnaphthalene	Ave	1.023	1.099	0.0100	26800	25000	7.4	30.0
Dimethyl phthalate	Ave	1.166	1.220	0.0100	26100	25000	4.6	30.0
Coumarin	Ave	0.1760	0.1745	0.0100	24800	25000	-0.8	30.0
2,6-Dinitrotoluene	Ave	0.2608	0.2743	0.2000	26300	25000	5.1	30.0
Acenaphthylene	Ave	1.748	1.785	0.9000	25500	25000	2.1	30.0
3-Nitroaniline	Ave	0.2610	0.2640	0.0100	25300	25000	1.1	30.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.451	1.359	0.0100	23400	25000	-6.3	30.0
Acenaphthene	Ave	1.161	1.255	0.9000	27000	25000	8.1	30.0
2,4-Dinitrophenol	Qua		0.1069	0.0100	47600	50000	-4.7	30.0
4-Nitrophenol	Ave	0.1544	0.1585	0.0100	51300	50000	2.7	30.0
2,4-Dinitrotoluene	Ave	0.2927	0.3209	0.2000	27400	25000	9.7	30.0
Dibenzofuran	Ave	1.660	1.733	0.8000	26100	25000	4.4	30.0
2,3,4,6-Tetrachlorophenol	Ave	0.3370	0.3336	0.0100	24800	25000	-1.0	30.0
Diethyl phthalate	Ave	1.010	1.068	0.0100	26400	25000	5.8	30.0
4-Chlorophenyl phenyl ether	Ave	0.6824	0.6726	0.4000	24600	25000	-1.4	30.0
Fluorene	Ave	1.196	1.188	0.9000	24800	25000	-0.7	30.0
4-Nitroaniline	Ave	0.2073	0.2131	0.0100	25700	25000	2.8	30.0
4,6-Dinitro-2-methylphenol	Lin2		0.1183	0.0100	49500	50000	-1.1	30.0
N-Nitrosodiphenylamine	Ave	0.6352	0.7682	0.0100	51400	42500	20.9	30.0
1,2-Diphenylhydrazine	Ave	0.7137	0.8294	0.0100	29100	25000	16.2	30.0
4-Bromophenyl phenyl ether	Ave	0.3181	0.3287	0.1000	25800	25000	3.3	30.0
Hexachlorobenzene	Ave	0.3805	0.4040	0.1000	26500	25000	6.2	30.0
Pentachlorophenol	Ave	0.1784	0.1982	0.0500	55500	50000	11.1	30.0
Pentachloronitrobenzene	Ave	0.1206	0.1358	0.0100	28100	25000	12.6	30.0
n-Octadecane	Ave	0.5076	0.5762	0.0100	28400	25000	13.5	30.0
Phenanthrene	Ave	1.120	1.157	0.7000	25800	25000	3.3	30.0
Anthracene	Ave	1.129	1.191	0.7000	26400	25000	5.5	30.0
Carbazole	Ave	0.8330	0.8657	0.0100	26000	25000	3.9	30.0
Di-n-butyl phthalate	Ave	0.9663	1.025	0.0100	26500	25000	6.1	30.0
Fluoranthene	Ave	0.9699	1.002	0.6000	25800	25000	3.3	30.0
Benidine	Ave	0.3590	0.2519		17500	25000	-29.8	30.0
Pyrene	Ave	1.542	1.558	0.6000	25300	25000	1.0	30.0
Bisphenol-A	Qua		0.2807		19000	25000	-23.8	30.0
Butyl benzyl phthalate	Ave	0.4681	0.5069	0.0100	27100	25000	8.3	30.0
Carbamazepine	Lin2		0.3757	0.0100	24900	25000	-0.4	30.0
3,3'-Dichlorobenzidine	Ave	0.3947	0.4045	0.0100	25600	25000	2.5	30.0
Benzo[a]anthracene	Ave	1.158	1.173	0.8000	25300	25000	1.3	30.0
Bis(2-ethylhexyl) phthalate	Ave	0.6124	0.6549	0.0100	26700	25000	6.9	30.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112069-1
 SDG No.: _____
 Lab Sample ID: ICV 460-361914/18 Calibration Date: 04/11/2016 20:16
 Instrument ID: CBNAMS5 Calib Start Date: 04/11/2016 13:47
 GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 04/11/2016 17:01
 Lab File ID: x12708.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chrysene	Ave	1.045	1.101	0.7000	26300	25000	5.3	30.0
Di-n-octyl phthalate	Ave	1.036	1.129	0.0100	27300	25000	9.0	30.0
Benzo[b]fluoranthene	Ave	1.052	1.150	0.7000	27300	25000	9.3	30.0
Benzo[k]fluoranthene	Ave	1.131	1.244	0.7000	27500	25000	10.0	30.0
Benzo[a]pyrene	Ave	0.9455	1.030	0.7000	27200	25000	8.9	30.0
Indeno[1,2,3-cd]pyrene	Ave	0.8058	0.9022	0.5000	28000	25000	12.0	30.0
Dibenz(a,h)anthracene	Ave	0.8856	1.026	0.4000	29000	25000	15.8	30.0
Benzo[g,h,i]perylene	Ave	0.9917	1.080	0.5000	27200	25000	8.9	30.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12708.D
 Lims ID: icv
 Client ID:
 Sample Type: ICV
 Inject. Date: 11-Apr-2016 20:16:30 ALS Bottle#: 18 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-018
 Operator ID: Instrument ID: CBNAMS5
 Sublist:
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:59:55 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 20:40:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.830	1.818	0.012	97	357156	25.0	27.1	
2 N-Nitrosodimethylamine	74	2.054	2.053	0.001	68	441187	25.0	24.1	
3 Pyridine	79	2.089	2.089	0.000	79	839428	25.0	26.6	
7 Phenol	94	4.142	4.159	-0.017	97	1142419	25.0	28.1	
8 Aniline	93	4.177	4.183	-0.006	98	1272081	25.0	25.8	
9 Bis(2-chloroethyl)ether	93	4.236	4.247	-0.011	96	781527	25.0	24.0	
10 Benzonitrile	103	4.259	4.277	-0.018	67	1674849	NC	NC	
11 2-Chlorophenol	128	4.295	4.306	-0.011	94	940650	25.0	26.7	
12 n-Decane	43	4.348	4.353	-0.005	92	1158422	25.0	25.9	
13 1,3-Dichlorobenzene	146	4.453	4.459	-0.006	95	1174565	25.0	26.3	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	97	1035985	40.0	40.0	
15 1,4-Dichlorobenzene	146	4.524	4.530	-0.006	94	1127897	25.0	25.7	
16 Benzyl alcohol	108	4.642	4.647	-0.005	92	576982	25.0	26.4	
17 1,2-Dichlorobenzene	146	4.677	4.683	-0.006	95	1073737	25.0	25.7	
18 2-Methylphenol	108	4.747	4.759	-0.012	89	816269	25.0	26.5	
19 2,2'-oxybis[1-chloropropan	45	4.777	4.783	-0.006	91	1275137	25.0	25.8	
20 N-Methylaniline	106	4.900	4.906	-0.006	80	1151460	NC	NC	
24 4-Methylphenol	108	4.906	4.918	-0.012	84	721622	25.0	23.9	
21 Acetophenone	105	4.912	4.918	-0.006	89	901383	25.0	23.9	
23 3 & 4 Methylphenol	108	4.906	4.918	-0.012	84	721622	25.0	23.9	
22 N-Nitrosodi-n-propylamine	70	4.912	4.924	-0.012	84	462979	25.0	21.4	
25 Hexachloroethane	117	5.018	5.024	-0.006	87	401378	25.0	25.4	
28 Nitrobenzene	77	5.083	5.094	-0.011	90	1081382	25.0	23.8	
27 n,n'-Dimethylaniline	120	5.083	5.094	-0.011	93	1163090	25.0	21.8	
31 Isophorone	82	5.324	5.336	-0.012	97	1420444	25.0	25.6	
32 2-Nitrophenol	139	5.400	5.406	-0.006	87	445684	25.0	26.0	
33 2,4-Dimethylphenol	122	5.442	5.447	-0.005	89	722565	25.0	25.6	
34 Bis(2-chloroethoxy)methane	93	5.536	5.541	-0.005	97	786337	25.0	26.5	
35 Benzoic acid	122	5.547	5.577	-0.030	93	324648	25.0	26.8	
36 2,4-Dichlorophenol	162	5.642	5.647	-0.005	95	782255	25.0	26.7	
37 1,2,4-Trichlorobenzene	180	5.730	5.736	-0.006	94	897794	25.0	25.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 38 Naphthalene-d8	136	5.789	5.783	0.006	100	3414076	40.0	40.0	
39 Naphthalene	128	5.806	5.812	-0.006	99	2341115	25.0	26.0	
40 4-Chloroaniline	127	5.859	5.865	-0.006	96	855338	25.0	24.8	
41 Hexachlorobutadiene	225	5.942	5.941	0.001	97	612650	25.0	25.2	
43 4-Chloro-3-methylphenol	107	6.341	6.347	-0.006	97	617330	25.0	26.8	
44 2-Methylnaphthalene	142	6.500	6.506	-0.006	85	1548417	25.0	24.9	
45 1-Methylnaphthalene	142	6.600	6.606	-0.006	93	1449768	25.0	27.1	
46 Hexachlorocyclopentadiene	237	6.665	6.671	-0.006	96	439492	25.0	17.7	
47 1,2,4,5-Tetrachlorobenzene	216	6.671	6.677	-0.006	98	834505	25.0	25.3	
48 2-tertbutyl-4-methylphenol	149	6.694	6.700	-0.006	91	1036275	25.0	25.4	
49 2,4,6-Trichlorophenol	196	6.783	6.788	-0.005	91	479744	25.0	26.2	
50 2,4,5-Trichlorophenol	196	6.812	6.818	-0.006	97	481278	25.0	25.9	
52 1,1'-Biphenyl	154	6.965	6.971	-0.006	94	1855522	25.0	26.2	
53 2-Chloronaphthalene	162	6.983	6.994	-0.011	98	1408489	25.0	26.4	
54 Phenyl ether	170	7.071	7.077	-0.006	87	1014113	25.0	26.2	
56 2-Nitroaniline	65	7.083	7.088	-0.005	97	431350	25.0	26.5	
57 1,3-Dimethylnaphthalene	156	7.206	7.212	-0.006	93	1164352	25.0	26.8	
58 Dimethyl phthalate	163	7.271	7.277	-0.006	100	1292307	25.0	26.1	
59 Coumarin	146	7.288	7.300	-0.012	74	372409	25.0	24.8	
60 2,6-Dinitrotoluene	165	7.324	7.330	-0.006	94	290608	25.0	26.3	
61 Acenaphthylene	152	7.400	7.406	-0.006	97	1891878	25.0	25.5	
64 3-Nitroaniline	138	7.488	7.500	-0.012	92	279721	25.0	25.3	
* 65 Acenaphthene-d10	164	7.541	7.541	0.000	91	1695354	40.0	40.0	
66 3,5-di-tert-butyl-4-hydrox	205	7.559	7.565	-0.006	95	1440372	25.0	23.4	
67 Acenaphthene	154	7.571	7.577	-0.006	92	1329737	25.0	27.0	
68 2,4-Dinitrophenol	184	7.588	7.600	-0.012	46	226433	50.0	47.6	
69 4-Nitrophenol	65	7.647	7.659	-0.012	89	335915	50.0	51.3	
70 2,4-Dinitrotoluene	165	7.718	7.730	-0.012	96	340059	25.0	27.4	
71 Dibenzofuran	168	7.741	7.747	-0.006	95	1836691	25.0	26.1	
72 2,3,4,6-Tetrachlorophenol	232	7.859	7.865	-0.006	97	353519	25.0	24.8	
73 Diethyl phthalate	149	7.965	7.971	-0.006	98	1132031	25.0	26.4	
74 4-Chlorophenyl phenyl ethe	204	8.077	8.082	-0.005	93	712707	25.0	24.6	
75 Fluorene	166	8.083	8.082	0.001	95	1258504	25.0	24.8	
76 4-Nitroaniline	138	8.094	8.106	-0.012	86	225771	25.0	25.7	
77 4,6-Dinitro-2-methylphenol	198	8.124	8.135	-0.011	91	324603	50.0	49.5	
78 N-Nitrosodiphenylamine	169	8.194	8.200	-0.006	66	1791564	42.5	51.4	
79 1,2-Diphenylhydrazine	77	8.235	8.241	-0.006	95	1137889	25.0	29.1	
81 4-Bromophenyl phenyl ether	248	8.559	8.565	-0.006	93	450912	25.0	25.8	
83 Hexachlorobenzene	284	8.630	8.635	-0.005	93	554288	25.0	26.5	
85 Pentachlorophenol	266	8.818	8.824	-0.006	95	543700	50.0	55.5	
86 Pentachloronitrobenzene	237	8.835	8.841	-0.006	91	186334	25.0	28.1	
87 n-Octadecane	57	8.894	8.900	-0.006	98	790550	25.0	28.4	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	2195104	40.0	40.0	
89 Phenanthrene	178	9.030	9.029	0.001	96	1586810	25.0	25.8	
90 Anthracene	178	9.077	9.082	-0.005	99	1634215	25.0	26.4	
91 Carbazole	167	9.230	9.235	-0.005	96	1187658	25.0	26.0	
92 Di-n-butyl phthalate	149	9.571	9.576	-0.005	100	1406500	25.0	26.5	
93 Fluoranthene	202	10.200	10.206	-0.006	99	1374707	25.0	25.8	
94 Benzidine	184	10.329	10.329	0.000	99	345529	25.0	17.5	
95 Pyrene	202	10.429	10.435	-0.006	98	1347259	25.0	25.3	
82 Bisphenol-A	213	10.471	10.471	0.000	99	242729	25.0	19.0	
97 Butyl benzyl phthalate	149	11.124	11.129	-0.005	97	438263	25.0	27.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
99 Carbamazepine	193	11.253	11.259	-0.006	92	324839	25.0	24.9	
100 3,3'-Dichlorobenzidine	252	11.771	11.770	0.001	97	349710	25.0	25.6	
101 Benzo[a]anthracene	228	11.800	11.806	-0.006	96	1013878	25.0	25.3	
* 102 Chrysene-d12	240	11.818	11.812	0.006	98	1383434	40.0	40.0	
104 Bis(2-ethylhexyl) phthalat	149	11.841	11.841	0.000	90	566257	25.0	26.7	
103 Chrysene	228	11.847	11.853	-0.006	100	951574	25.0	26.3	
105 Di-n-octyl phthalate	149	12.723	12.723	0.000	98	794392	25.0	27.3	
106 Benzo[b]fluoranthene	252	13.247	13.253	-0.006	97	808982	25.0	27.3	
107 Benzo[k]fluoranthene	252	13.282	13.288	-0.006	97	874754	25.0	27.5	
108 Benzo[a]pyrene	252	13.700	13.706	-0.006	98	724138	25.0	27.2	
* 109 Perylene-d12	264	13.782	13.782	0.000	98	1125396	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	15.376	15.382	-0.006	95	634556	25.0	28.0	
111 Dibenz(a,h)anthracene	278	15.411	15.423	-0.012	99	721586	25.0	29.0	
112 Benzo[g,h,i]perylene	276	15.829	15.835	-0.006	95	759572	25.0	27.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

SM_ICV-long_00010

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160411-39723.b\\x12708.D

Injection Date: 11-Apr-2016 20:16:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: icv

Worklist Smp#: 18

Client ID:

Injection Vol: 1.0 ul

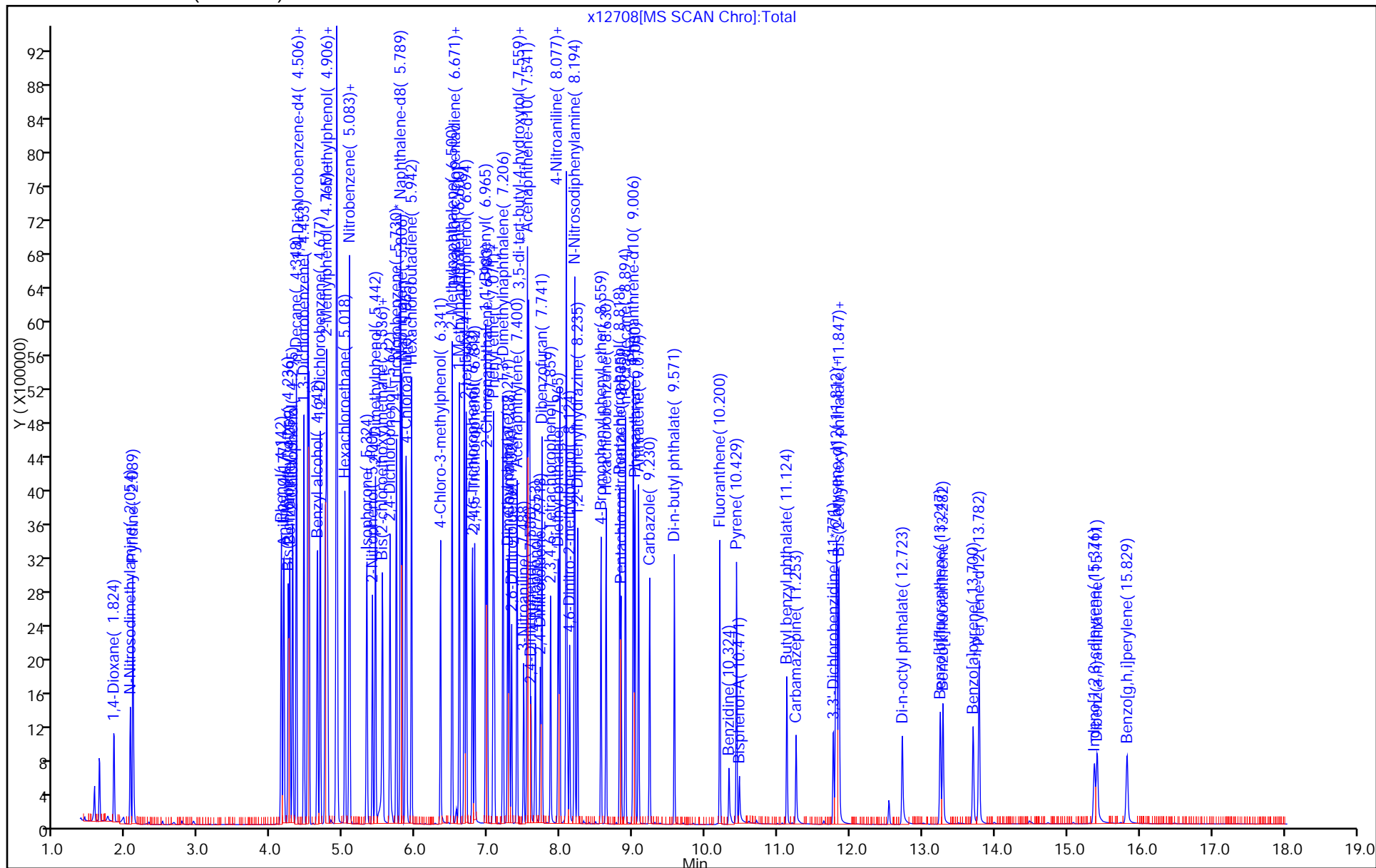
Dil. Factor: 1.0000

ALS Bottle#: 18

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112069-1
SDG No.: _____
Lab Sample ID: ICV 460-361914/19 Calibration Date: 04/11/2016 22:26
Instrument ID: CBNAMS5 Calib Start Date: 04/11/2016 17:25
GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 04/11/2016 19:51
Lab File ID: x12709e.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Ave	1.112	1.242	0.0100	27900	25000	11.7	30.0
Caprolactam	Ave	0.0769	0.1020	0.0100	33200	25000	32.7*	30.0
Atrazine	Ave	0.2042	0.2415	0.0100	29600	25000	18.2	30.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12709e.D
 Lims ID: icv
 Client ID:
 Sample Type: ICV
 Inject. Date: 11-Apr-2016 22:26:30 ALS Bottle#: 19 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039723-019
 Operator ID: Instrument ID: CBNAMS5
 Sublist:
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:59:55 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: bayoumiw

Date: 11-Apr-2016 23:32:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	4.065	4.071	-0.006	89	1040448	25.0	27.9	
* 14 1,4-Dichlorobenzene-d4	152	4.506	4.506	0.000	97	1340707	40.0	40.0	
* 38 Naphthalene-d8	136	5.783	5.783	0.000	99	4497487	40.0	40.0	
42 Caprolactam	113	6.183	6.194	-0.011	88	286678	25.0	33.2	
* 65 Acenaphthene-d10	164	7.535	7.541	-0.006	91	2423592	40.0	40.0	
84 Atrazine	200	8.718	8.718	0.000	95	521393	25.0	29.6	
* 88 Phenanthrene-d10	188	9.006	9.006	0.000	97	3454936	40.0	40.0	
* 102 Chrysene-d12	240	11.818	11.812	0.006	98	1984105	40.0	40.0	
* 109 Perylene-d12	264	13.782	13.782	0.000	98	1514479	40.0	40.0	

Reagents:

SM_ICV-short_00009

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160411-39723.b\\x12709e.D

Injection Date: 11-Apr-2016 22:26:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: icv

Worklist Smp#: 19

Client ID:

Injection Vol: 1.0 ul

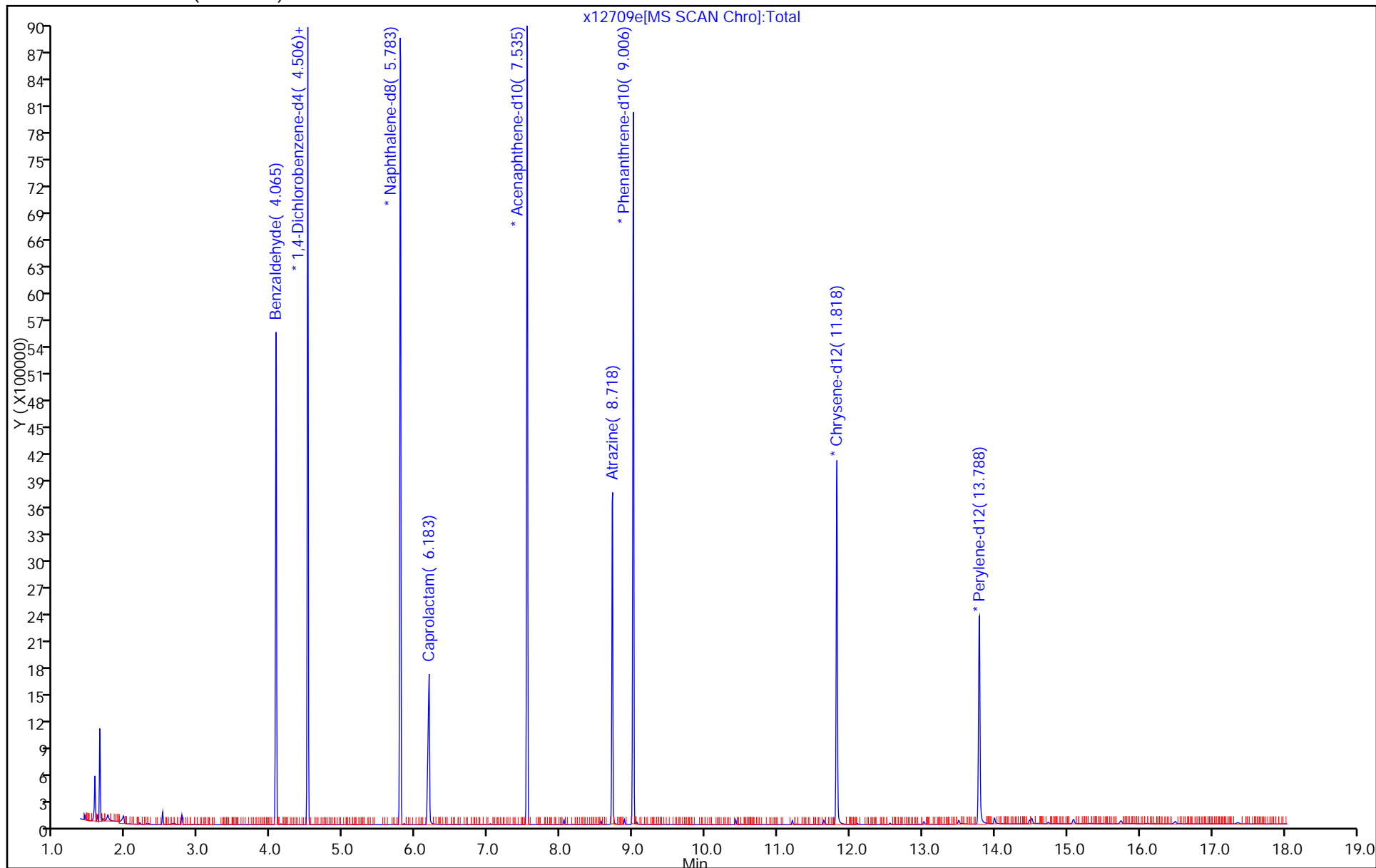
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112069-1

SDG No.: _____

Lab Sample ID: CCVIS 460-362392/2 Calibration Date: 04/14/2016 05:53

Instrument ID: CBNAMS5 Calib Start Date: 04/11/2016 13:47

GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 04/11/2016 17:01

Lab File ID: x12815.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	0.5097	0.4845	0.0100	47500	50000	-4.9	20.0
N-Nitrosodimethylamine	Ave	0.7072	0.6368		45000	50000	-10.0	20.0
Pyridine	Ave	1.217	1.114		45700	50000	-8.5	20.0
Phenol	Ave	1.570	1.474	0.8000	46900	50000	-6.1	20.0
Aniline	Ave	1.905	1.666		43700	50000	-12.5	20.0
Bis(2-chloroethyl)ether	Ave	1.260	0.9761	0.7000	38700	50000	-22.5*	20.0
2-Chlorophenol	Ave	1.360	1.255	0.8000	46100	50000	-7.7	20.0
n-Decane	Ave	1.730	1.426	0.0100	41200	50000	-17.6	20.0
1,3-Dichlorobenzene	Ave	1.723	1.599		46400	50000	-7.2	20.0
1,4-Dichlorobenzene	Ave	1.692	1.582		46800	50000	-6.5	20.0
Benzyl alcohol	Ave	0.8449	0.7750	0.0100	45900	50000	-8.3	20.0
1,2-Dichlorobenzene	Ave	1.611	1.478		45900	50000	-8.2	20.0
2-Methylphenol	Ave	1.189	1.079	0.7000	45400	50000	-9.2	20.0
2,2'-oxybis[1-chloropropane]	Qua		1.409	0.0100	39200	50000	-21.7*	20.0
Acetophenone	Ave	1.457	1.450	0.0100	49800	50000	-0.5	20.0
N-Nitrosodi-n-propylamine	Ave	0.8351	0.6915	0.5000	41400	50000	-17.2	20.0
3 & 4 Methylphenol	Ave	1.167	1.163		49800	50000	-0.4	20.0
4-Methylphenol	Ave	1.167	1.163	0.6000	49800	50000	-0.4	20.0
Hexachloroethane	Ave	0.6110	0.5224	0.3000	42800	50000	-14.5	20.0
n,n'-Dimethylaniline	Ave	2.061	1.786	0.0100	43300	50000	-13.3	20.0
Nitrobenzene	Ave	0.5329	0.4555	0.2000	42700	50000	-14.5	20.0
Isophorone	Ave	0.6493	0.5474	0.4000	42200	50000	-15.7	20.0
2-Nitrophenol	Ave	0.2008	0.1943	0.1000	48400	50000	-3.2	20.0
2,4-Dimethylphenol	Ave	0.3303	0.3082	0.2000	46600	50000	-6.7	20.0
Bis(2-chloroethoxy)methane	Ave	0.3472	0.3006	0.3000	43300	50000	-13.4	20.0
Benzoic acid	Lin2		0.1573		53100	50000	6.3	20.0
2,4-Dichlorophenol	Ave	0.3429	0.3220	0.2000	47000	50000	-6.1	20.0
1,2,4-Trichlorobenzene	Ave	0.4180	0.3728		44600	50000	-10.8	20.0
Naphthalene	Ave	1.055	0.9902	0.7000	46900	50000	-6.1	20.0
4-Chloroaniline	Ave	0.4041	0.3770	0.0100	46600	50000	-6.7	20.0
Hexachlorobutadiene	Ave	0.2848	0.2628	0.0100	46100	50000	-7.7	20.0
4-Chloro-3-methylphenol	Ave	0.2697	0.2536		47000	50000	-6.0	20.0
2-Methylnaphthalene	Ave	0.7292	0.6870	0.4000	47100	50000	-5.8	20.0
1-Methylnaphthalene	Ave	0.6260	0.5924	0.0100	47300	50000	-5.4	20.0
Hexachlorocyclopentadiene	Ave	0.5848	0.4544	0.0500	38800	50000	-22.3*	20.0
1,2,4,5-Tetrachlorobenzene	Ave	0.7781	0.6985	0.0100	44900	50000	-10.2	20.0
2-tertbutyl-4-methylphenol	Ave	0.4777	0.4703	0.0100	49200	50000	-1.6	20.0
2,4,6-Trichlorophenol	Ave	0.4313	0.4161	0.2000	48200	50000	-3.5	20.0
2,4,5-Trichlorophenol	Ave	0.4378	0.4371	0.2000	49900	50000	-0.2	20.0
1,1'-Biphenyl	Ave	1.673	1.532	0.0100	45800	50000	-8.4	20.0
2-Chloronaphthalene	Ave	1.260	1.173	0.8000	46500	50000	-6.9	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112069-1

SDG No.: _____

Lab Sample ID: CCVIS 460-362392/2 Calibration Date: 04/14/2016 05:53

Instrument ID: CBNAMS5 Calib Start Date: 04/11/2016 13:47

GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 04/11/2016 17:01

Lab File ID: x12815.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Phenyl ether	Ave	0.9128	0.8671	0.0100	47500	50000	-5.0	20.0
2-Nitroaniline	Ave	0.3834	0.3529	0.0100	46000	50000	-8.0	20.0
1,3-Dimethylnaphthalene	Ave	1.023	0.9804	0.0100	47900	50000	-4.2	20.0
Dimethyl phthalate	Ave	1.166	1.114	0.0100	47800	50000	-4.5	20.0
Coumarin	Ave	0.1760	0.1781	0.0100	50600	50000	1.2	20.0
2,6-Dinitrotoluene	Ave	0.2608	0.2557	0.2000	49000	50000	-2.0	20.0
Acenaphthylene	Ave	1.748	1.614	0.9000	46200	50000	-7.7	20.0
3-Nitroaniline	Ave	0.2610	0.2512	0.0100	48100	50000	-3.8	20.0
3,5-di-tert-butyl-4-hydroxytol	Ave	1.451	1.302	0.0100	44900	50000	-10.2	20.0
Acenaphthene	Ave	1.161	0.999	0.9000	43000	50000	-14.0	20.0
2,4-Dinitrophenol	Qua		0.1447	0.0100	116000	100000	15.7	20.0
4-Nitrophenol	Ave	0.1544	0.1649	0.0100	107000	100000	6.8	20.0
2,4-Dinitrotoluene	Ave	0.2927	0.3105	0.2000	53000	50000	6.1	20.0
Dibenzofuran	Ave	1.660	1.539	0.8000	46300	50000	-7.3	20.0
2,3,4,6-Tetrachlorophenol	Ave	0.3370	0.3458	0.0100	51300	50000	2.6	20.0
Diethyl phthalate	Ave	1.010	1.005	0.0100	49800	50000	-0.5	20.0
4-Chlorophenyl phenyl ether	Ave	0.6824	0.6258	0.4000	45900	50000	-8.3	20.0
Fluorene	Ave	1.196	1.132	0.9000	47300	50000	-5.3	20.0
4-Nitroaniline	Ave	0.2073	0.2258	0.0100	54500	50000	8.9	20.0
4,6-Dinitro-2-methylphenol	Lin2		0.1336	0.0100	109000	100000	8.9	20.0
N-Nitrosodiphenylamine	Ave	0.6352	0.6064	0.0100	95500	100000	-4.5	20.0
1,2-Diphenylhydrazine	Ave	0.7137	0.6157	0.0100	43100	50000	-13.7	20.0
4-Bromophenyl phenyl ether	Ave	0.3181	0.2987	0.1000	46900	50000	-6.1	20.0
Hexachlorobenzene	Ave	0.3805	0.3763	0.1000	49400	50000	-1.1	20.0
Pentachlorophenol	Ave	0.1784	0.1961	0.0500	110000	100000	9.9	20.0
Pentachloronitrobenzene	Ave	0.1206	0.1374	0.0100	56900	50000	13.9	20.0
n-Octadecane	Ave	0.5076	0.4417	0.0100	43500	50000	-13.0	20.0
Phenanthrene	Ave	1.120	1.087	0.7000	48500	50000	-2.9	20.0
Anthracene	Ave	1.129	1.093	0.7000	48400	50000	-3.2	20.0
Carbazole	Ave	0.8330	0.8263	0.0100	49600	50000	-0.8	20.0
Di-n-butyl phthalate	Ave	0.9663	0.9785	0.0100	50600	50000	1.3	20.0
Fluoranthene	Ave	0.9699	0.9773	0.6000	50400	50000	0.8	20.0
Benzidine	Ave	0.3590	0.3486		48600	50000	-2.9	20.0
Pyrene	Ave	1.542	1.572	0.6000	51000	50000	1.9	20.0
Bisphenol-A	Qua		0.5441		60300	50000	20.5*	20.0
Butyl benzyl phthalate	Ave	0.4681	0.5011	0.0100	53500	50000	7.0	20.0
2,3,7,8-TCDD	Ave	0.2453	0.2479	0.0100	505	500	1.1	20.0
Carbamazepine	Lin2		0.3396	0.0100	43300	50000	-13.5	20.0
3,3'-Dichlorobenzidine	Ave	0.3947	0.4307	0.0100	54600	50000	9.1	20.0
Benzo[a]anthracene	Ave	1.158	1.162	0.8000	50200	50000	0.3	20.0

FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112069-1
 SDG No.: _____
 Lab Sample ID: CCVIS 460-362392/2 Calibration Date: 04/14/2016 05:53
 Instrument ID: CBNAMS5 Calib Start Date: 04/11/2016 13:47
 GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 04/11/2016 17:01
 Lab File ID: x12815.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chrysene	Ave	1.045	1.015	0.7000	48600	50000	-2.8	20.0
Bis(2-ethylhexyl) phthalate	Ave	0.6124	0.6676	0.0100	54500	50000	9.0	20.0
Di-n-octyl phthalate	Ave	1.036	1.339	0.0100	64600	50000	29.2*	20.0
Benzo[b]fluoranthene	Ave	1.052	1.224	0.7000	58200	50000	16.3	20.0
Benzo[k]fluoranthene	Ave	1.131	1.208	0.7000	53400	50000	6.9	20.0
Benzo[a]pyrene	Ave	0.9455	1.095	0.7000	57900	50000	15.8	20.0
Indeno[1,2,3-cd]pyrene	Ave	0.8058	0.9851	0.5000	61100	50000	22.3*	20.0
Dibenz(a,h)anthracene	Ave	0.8856	1.007	0.4000	56800	50000	13.7	20.0
Benzo[g,h,i]perylene	Ave	0.9917	0.9757	0.5000	49200	50000	-1.6	20.0
2-Fluorophenol (Surr)	Ave	1.451	1.310	0.0100	45100	50000	-9.8	20.0
Phenol-d5 (Surr)	Ave	1.657	1.454	0.0100	43900	50000	-12.3	20.0
Nitrobenzene-d5 (Surr)	Ave	0.4206	0.3762	0.0100	44700	50000	-10.5	20.0
2-Fluorobiphenyl	Ave	1.696	1.587	0.0100	46800	50000	-6.4	20.0
2,4,6-Tribromophenol (Surr)	Ave	0.3297	0.3194	0.0100	48400	50000	-3.1	20.0
Terphenyl-d14 (Surr)	Ave	1.241	1.341	0.0100	54000	50000	8.1	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12815.D
 Lims ID: ccvis
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 14-Apr-2016 05:53:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039822-002
 Misc. Info.: ccvis
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub37
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 14-Apr-2016 13:10:13 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: asfawa

Date: 14-Apr-2016 06:41:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.624	1.624	0.000	96	752359	50.0	47.5	
2 N-Nitrosodimethylamine	74	1.859	1.859	0.000	63	988816	50.0	45.0	
3 Pyridine	79	1.883	1.883	0.000	82	1729470	50.0	45.7	
\$ 4 2-Fluorophenol	112	2.989	2.989	0.000	94	2033509	50.0	45.1	
\$ 6 Phenol-d5	99	3.924	3.924	0.000	95	2257104	50.0	43.9	
7 Phenol	94	3.942	3.942	0.000	93	2288787	50.0	46.9	
8 Aniline	93	3.953	3.953	0.000	98	2587572	50.0	43.7	
9 Bis(2-chloroethyl)ether	93	4.018	4.018	0.000	97	1515682	50.0	38.7	
10 Benzonitrile	103	4.048	4.048	0.000	66	3415260	NC	NC	
11 2-Chlorophenol	128	4.071	4.071	0.000	95	1948919	50.0	46.1	
12 n-Decane	43	4.124	4.124	0.000	91	2214134	50.0	41.2	
13 1,3-Dichlorobenzene	146	4.224	4.224	0.000	96	2482546	50.0	46.4	
* 14 1,4-Dichlorobenzene-d4	152	4.277	4.277	0.000	97	1242262	40.0	40.0	
15 1,4-Dichlorobenzene	146	4.295	4.295	0.000	94	2457165	50.0	46.8	
16 Benzyl alcohol	108	4.424	4.424	0.000	92	1203431	50.0	45.9	
17 1,2-Dichlorobenzene	146	4.448	4.448	0.000	96	2295400	50.0	45.9	
18 2-Methylphenol	108	4.536	4.536	0.000	87	1675649	50.0	45.4	
19 2,2'-oxybis[1-chloropropan	45	4.559	4.559	0.000	85	2187173	50.0	39.2	
21 Acetophenone	105	4.695	4.695	0.000	95	2250923	50.0	49.8	
22 N-Nitrosodi-n-propylamine	70	4.700	4.700	0.000	94	1073717	50.0	41.4	
23 3 & 4 Methylphenol	108	4.706	4.706	0.000	93	1806195	50.0	49.8	
24 4-Methylphenol	108	4.706	4.706	0.000	89	1806195	50.0	49.8	
25 Hexachloroethane	117	4.783	4.783	0.000	86	811222	50.0	42.8	
\$ 26 Nitrobenzene-d5	82	4.842	4.842	0.000	94	1964591	50.0	44.7	
28 Nitrobenzene	77	4.865	4.865	0.000	78	2378487	50.0	42.7	
27 n,n'-Dimethylaniline	120	4.865	4.865	0.000	88	2773306	50.0	43.3	
31 Isophorone	82	5.112	5.112	0.000	96	2858601	50.0	42.2	
32 2-Nitrophenol	139	5.177	5.177	0.000	84	1014695	50.0	48.4	
33 2,4-Dimethylphenol	122	5.230	5.230	0.000	89	1609294	50.0	46.6	
34 Bis(2-chloroethoxy)methane	93	5.324	5.324	0.000	99	1569502	50.0	43.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
35 Benzoic acid	122	5.377	5.377	0.000	91	821353	50.0	53.1	
36 2,4-Dichlorophenol	162	5.424	5.424	0.000	94	1681474	50.0	47.0	
37 1,2,4-Trichlorobenzene	180	5.500	5.500	0.000	94	1946595	50.0	44.6	
* 38 Naphthalene-d8	136	5.559	5.559	0.000	99	4177450	40.0	40.0	
39 Naphthalene	128	5.583	5.583	0.000	100	5170595	50.0	46.9	
40 4-Chloroaniline	127	5.642	5.642	0.000	95	1968354	50.0	46.6	
41 Hexachlorobutadiene	225	5.712	5.712	0.000	97	1372075	50.0	46.1	
43 4-Chloro-3-methylphenol	107	6.130	6.130	0.000	95	1324254	50.0	47.0	
44 2-Methylnaphthalene	142	6.271	6.271	0.000	86	3587134	50.0	47.1	
45 1-Methylnaphthalene	142	6.371	6.371	0.000	93	3093283	50.0	47.3	
46 Hexachlorocyclopentadiene	237	6.436	6.436	0.000	97	1241141	50.0	38.8	
47 1,2,4,5-Tetrachlorobenzene	216	6.447	6.447	0.000	98	1907709	50.0	44.9	
48 2-tertbutyl-4-methylphenol	149	6.483	6.483	0.000	91	2455568	50.0	49.2	
49 2,4,6-Trichlorophenol	196	6.559	6.559	0.000	92	1136611	50.0	48.2	
50 2,4,5-Trichlorophenol	196	6.594	6.594	0.000	96	1193735	50.0	49.9	
\$ 51 2-Fluorobiphenyl	172	6.641	6.641	0.000	98	4333966	50.0	46.8	
52 1,1'-Biphenyl	154	6.741	6.741	0.000	94	4183347	50.0	45.8	
53 2-Chloronaphthalene	162	6.759	6.759	0.000	98	3203623	50.0	46.5	
54 Phenyl ether	170	6.841	6.841	0.000	84	2368411	50.0	47.5	
56 2-Nitroaniline	65	6.865	6.865	0.000	95	963731	50.0	46.0	
57 1,3-Dimethylnaphthalene	156	6.977	6.977	0.000	93	2677738	50.0	47.9	
58 Dimethyl phthalate	163	7.059	7.059	0.000	98	3042707	50.0	47.8	
59 Coumarin	146	7.071	7.071	0.000	77	930191	50.0	50.6	
60 2,6-Dinitrotoluene	165	7.106	7.106	0.000	94	698515	50.0	49.0	
61 Acenaphthylene	152	7.171	7.171	0.000	97	4407304	50.0	46.2	
64 3-Nitroaniline	138	7.271	7.271	0.000	96	686218	50.0	48.1	
* 65 Acenaphthene-d10	164	7.312	7.312	0.000	90	2185051	40.0	40.0	
66 3,5-di-tert-butyl-4-hydrox	205	7.336	7.336	0.000	96	3555822	50.0	44.9	
67 Acenaphthene	154	7.341	7.341	0.000	93	2728504	50.0	43.0	
68 2,4-Dinitrophenol	184	7.377	7.377	0.000	94	790425	100.0	115.7	
69 4-Nitrophenol	65	7.447	7.447	0.000	85	900875	100.0	106.8	
70 2,4-Dinitrotoluene	165	7.506	7.506	0.000	94	847951	50.0	53.0	
71 Dibenzofuran	168	7.512	7.512	0.000	95	4202921	50.0	46.3	
72 2,3,4,6-Tetrachlorophenol	232	7.636	7.636	0.000	97	944352	50.0	51.3	
73 Diethyl phthalate	149	7.747	7.747	0.000	99	2745077	50.0	49.8	
74 4-Chlorophenyl phenyl ethe	204	7.847	7.847	0.000	82	1709216	50.0	45.9	
75 Fluorene	166	7.847	7.847	0.000	94	3091771	50.0	47.3	
76 4-Nitroaniline	138	7.883	7.883	0.000	83	616677	50.0	54.5	
77 4,6-Dinitro-2-methylphenol	198	7.912	7.912	0.000	88	991458	100.0	108.9	
78 N-Nitrosodiphenylamine	169	7.971	7.971	0.000	66	4498786	100.0	95.5	
79 1,2-Diphenylhydrazine	77	8.006	8.006	0.000	93	2283975	50.0	43.1	
\$ 80 2,4,6-Tribromophenol	330	8.088	8.088	0.000	90	872472	50.0	48.4	
81 4-Bromophenyl phenyl ether	248	8.330	8.330	0.000	95	1108078	50.0	46.9	
83 Hexachlorobenzene	284	8.394	8.394	0.000	93	1395760	50.0	49.4	
85 Pentachlorophenol	266	8.588	8.588	0.000	95	1454683	100.0	109.9	
86 Pentachloronitrobenzene	237	8.600	8.600	0.000	91	509658	50.0	56.9	
87 n-Octadecane	57	8.671	8.671	0.000	97	1638450	50.0	43.5	
* 88 Phenanthrene-d10	188	8.765	8.765	0.000	97	2967575	40.0	40.0	
89 Phenanthrene	178	8.794	8.794	0.000	96	4031167	50.0	48.5	
90 Anthracene	178	8.841	8.841	0.000	99	4054564	50.0	48.4	
91 Carbazole	167	9.000	9.000	0.000	96	3065073	50.0	49.6	
92 Di-n-butyl phthalate	149	9.341	9.341	0.000	100	3629650	50.0	50.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
93 Fluoranthene	202	9.959	9.959	0.000	98	3625132	50.0	50.4	
94 Benzidine	184	10.088	10.088	0.000	99	1293133	50.0	48.6	
95 Pyrene	202	10.182	10.182	0.000	98	3602397	50.0	51.0	
82 Bisphenol-A	213	10.229	10.229	0.000	99	1247106	50.0	60.3	
\$ 96 Terphenyl-d14	244	10.335	10.335	0.000	98	3073557	50.0	54.0	
97 Butyl benzyl phthalate	149	10.859	10.859	0.000	96	1148479	50.0	53.5	
98 2,3,7,8-TCDD	320	10.965	10.965	0.000	90	5683	0.5000	0.5054	
99 Carbamazepine	193	10.982	10.982	0.000	90	778499	50.0	43.3	
100 3,3'-Dichlorobenzidine	252	11.476	11.476	0.000	98	987203	50.0	54.6	
101 Benzo[a]anthracene	228	11.506	11.506	0.000	96	2662674	50.0	50.2	
* 102 Chrysene-d12	240	11.518	11.518	0.000	98	1833699	40.0	40.0	
103 Chrysene	228	11.547	11.547	0.000	100	2327241	50.0	48.6	
104 Bis(2-ethylhexyl) phthalat	149	11.553	11.553	0.000	88	1530108	50.0	54.5	
105 Di-n-octyl phthalate	149	12.406	12.406	0.000	97	2314688	50.0	64.6	
106 Benzo[b]fluoranthene	252	12.906	12.906	0.000	97	2116140	50.0	58.2	
107 Benzo[k]fluoranthene	252	12.941	12.941	0.000	97	2088850	50.0	53.4	
108 Benzo[a]pyrene	252	13.347	13.347	0.000	98	1892528	50.0	57.9	
* 109 Perylene-d12	264	13.423	13.423	0.000	99	1382822	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	14.929	14.929	0.000	96	1702760	50.0	61.1	
111 Dibenz(a,h)anthracene	278	14.964	14.964	0.000	99	1740121	50.0	56.8	
112 Benzo[g,h,i]perylene	276	15.347	15.347	0.000	95	1686466	50.0	49.2	

QC Flag Legend

Processing Flags

NC - Not Calibrated

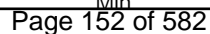
Reagents:

SV_IC_BNA_L6_00018

Amount Added: 1.00

Units: mL

Column: Rtxi-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-112069-1
SDG No.: _____
Lab Sample ID: CCV 460-362392/3 Calibration Date: 04/14/2016 06:51
Instrument ID: CBNAMS5 Calib Start Date: 04/11/2016 17:25
GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 04/11/2016 19:51
Lab File ID: x12816a.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Benzaldehyde	Ave	1.112	0.9553	0.0100	42900	50000	-14.1	20.0
Caprolactam	Ave	0.0769	0.0854	0.0100	55500	50000	11.1	20.0
Atrazine	Ave	0.2042	0.2273	0.0100	55700	50000	11.3	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12816a.D
 Lims ID: ccv
 Client ID:
 Sample Type: CCV
 Inject. Date: 14-Apr-2016 06:51:30 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039822-003
 Operator ID: Instrument ID: CBNAMS5
 Sublist: chrom-8270_5R*sub34
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 14-Apr-2016 13:10:19 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: asfawa

Date: 14-Apr-2016 07:29:23

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
5 Benzaldehyde	77	3.830	3.830	0.000	83	1118279	50.0	42.9	
* 14 1,4-Dichlorobenzene-d4	152	4.265	4.265	0.000	96	936520	40.0	40.0	
* 38 Naphthalene-d8	136	5.547	5.547	0.000	99	3329743	40.0	40.0	
42 Caprolactam	113	5.965	5.965	0.000	87	355318	50.0	55.5	
* 65 Acenaphthene-d10	164	7.300	7.300	0.000	91	1881982	40.0	40.0	
84 Atrazine	200	8.494	8.494	0.000	94	804239	50.0	55.7	
* 88 Phenanthrene-d10	188	8.765	8.765	0.000	97	2830207	40.0	40.0	
* 102 Chrysene-d12	240	11.512	11.512	0.000	98	1909850	40.0	40.0	
* 109 Perylene-d12	264	13.423	13.423	0.000	99	1431753	40.0	40.0	

Reagents:

SV_IC-S_L6_00018

Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160413-39822.b\\x12816a.D

Injection Date: 14-Apr-2016 06:51:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: ccv

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

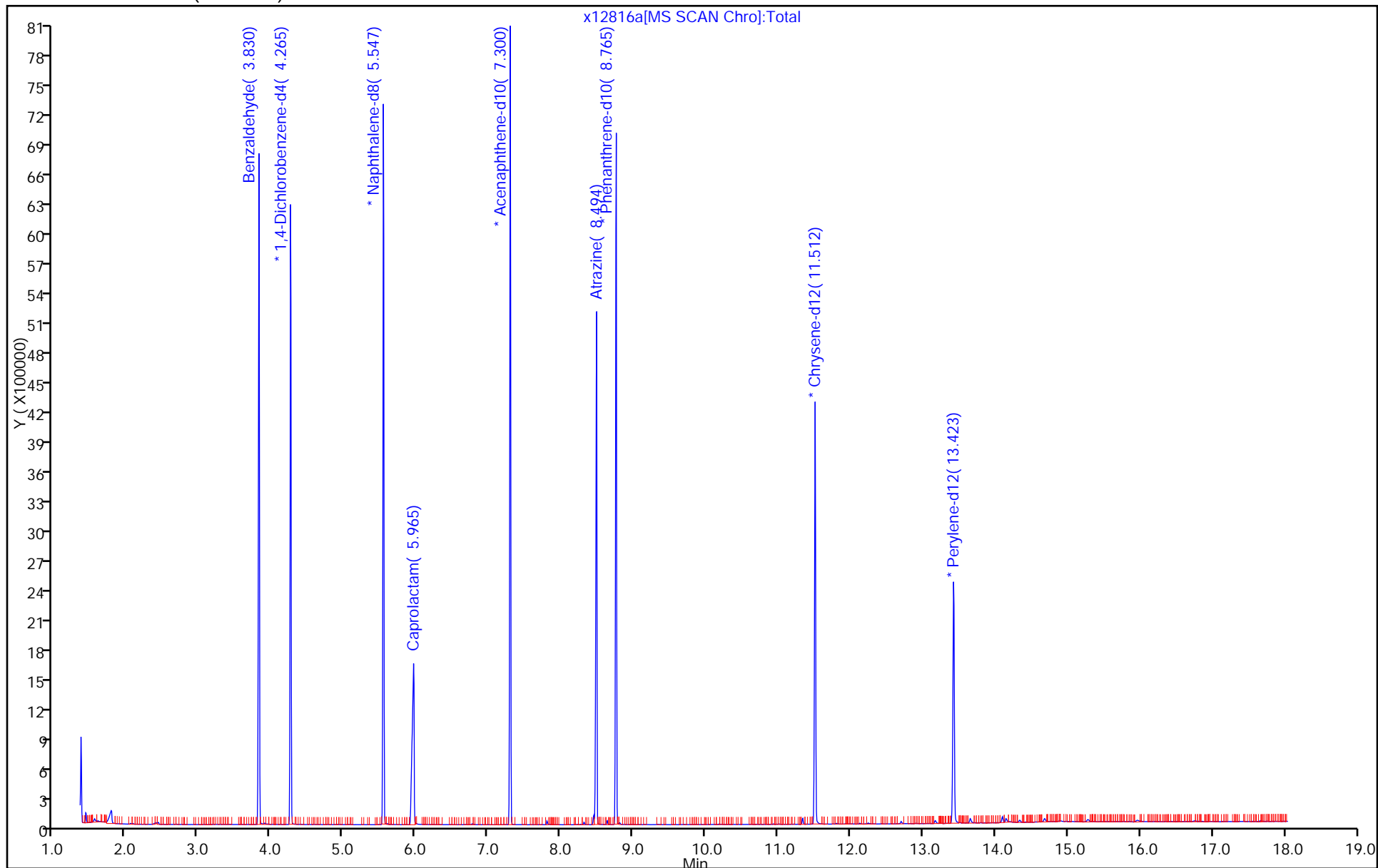
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12691.D
 Lims ID: dftpp
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 11-Apr-2016 13:27:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: -0039723-001
 Misc. Info.: DFTPP
 Operator ID: Instrument ID: CBNAMS5
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 11-Apr-2016 23:58:34 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK015

First Level Reviewer: croccom

Date: 11-Apr-2016 13:41:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
30 Pentachlorophenol_T	266	5.293	5.293	0.000	94	43828	NR	NR	
55 Benzidine_T	184	7.128	7.128	0.000	99	260055	NR	NR	
124 DFTPP									
126 4,4'-DDD	235	7.798	7.798	0.000	47	1928		NR	
127 4,4'-DDT	235	8.116	8.116	0.000	98	85679	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

SMDFTP_CH_00015

Amount Added: 1.00

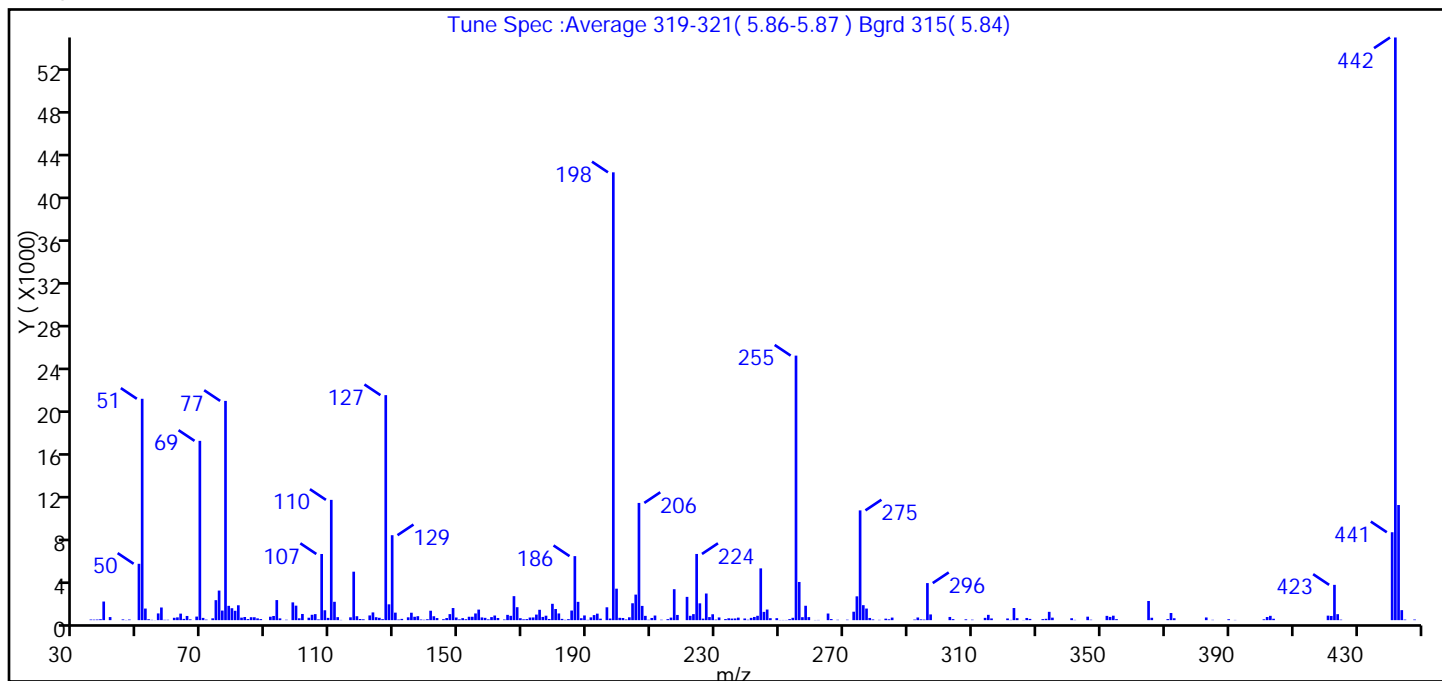
Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12691.D
Injection Date: 11-Apr-2016 13:27:30 Instrument ID: CBNAMS5
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R
Tune Method: DFTPP Method 8270

ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL

124 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	49.4
68	<2% of mass 69	0.8 (2.0)
69	Present	40.0
70	<2% of mass 69	0.5 (1.3)
127	40-60% of mass 198	50.2
197	<1% of mass 198	0.4
199	5-9% of mass 198	7.0
275	10-30% of mass 198	24.5
365	>1% of mass 198	4.3
441	Present but less than mass 443	19.6 (76.4)
442	>40% of mass 198	130.1
443	17-23% of mass 442	25.7 (19.8)

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12691.D\8270_5R.rslt\spectra.d
Injection Date: 11-Apr-2016 13:27:30
Spectrum: Tune Spec :Average 319-321(5.86-5.87) Bgrd 315(5.84)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 272

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	58	117.00	4571	189.00	443	271.00	44
36.00	48	118.00	370	190.00	27	273.00	795
37.00	57	119.00	107	191.00	262	274.00	2246
38.00	87	120.00	79	192.00	479	275.00	10353
39.00	1755	122.00	443	193.00	613	276.00	1412
41.00	290	123.00	730	194.00	138	277.00	1093
45.00	69	124.00	276	196.00	1213	278.00	206
46.00	17	125.00	221	197.00	152	279.00	66
47.00	57	126.00	94	198.00	42240	281.00	28
50.00	5316	127.00	21224	199.00	2968	283.00	140
51.00	20880	128.00	1493	200.00	220	284.00	79
52.00	1093	129.00	8012	201.00	203	285.00	241
53.00	87	130.00	708	202.00	63	292.00	55
54.00	29	131.00	58	203.00	269	293.00	251
55.00	10	132.00	119	204.00	1593	294.00	71
56.00	635	134.00	267	205.00	2409	295.00	51
57.00	1194	135.00	700	206.00	11057	296.00	3496
58.00	33	136.00	318	207.00	1343	297.00	539
59.00	37	137.00	373	208.00	404	303.00	301
61.00	222	138.00	59	209.00	36	304.00	96
62.00	262	139.00	34	210.00	206	308.00	78
63.00	615	140.00	85	211.00	435	310.00	43
64.00	118	141.00	888	213.00	38	314.00	216
65.00	395	142.00	368	215.00	95	315.00	500
66.00	75	143.00	198	216.00	239	316.00	160
67.00	2	145.00	88	217.00	2919	321.00	159
68.00	336	146.00	197	218.00	491	322.00	23
69.00	16912	147.00	568	221.00	2195	323.00	1144
70.00	212	148.00	1142	222.00	409	324.00	185
71.00	51	149.00	249	223.00	567	326.00	16
73.00	173	150.00	73	224.00	6243	327.00	205
74.00	1885	151.00	188	225.00	1586	328.00	118
75.00	2790	152.00	86	226.00	143	332.00	97

Report Date: 11-Apr-2016 23:58:36

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

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12691.D\8270_5R.rsl\spectra.d

Injection Date: 11-Apr-2016 13:27:30

Spectrum: Tune Spec :Average 319-321(5.86-5.87) Bgrd 315(5.84)

Base Peak: 442.00

Minimum % Base Peak: 0

Number of Points: 272

m/z	Y	m/z	Y	m/z	Y	m/z	Y
76.00	903	153.00	318	227.00	2513	333.00	127
77.00	20680	154.00	319	228.00	289	334.00	784
78.00	1350	155.00	631	229.00	555	335.00	235
79.00	1124	156.00	994	230.00	49	341.00	180
80.00	882	157.00	257	231.00	255	342.00	25
81.00	1402	158.00	218	233.00	101	346.00	327
82.00	238	159.00	74	234.00	176	347.00	41
83.00	295	160.00	288	235.00	148	352.00	403
84.00	102	161.00	437	236.00	157	353.00	305
85.00	277	162.00	203	237.00	237	354.00	420
86.00	273	164.00	61	239.00	156	355.00	96
87.00	167	165.00	499	240.00	37	365.00	1807
88.00	100	166.00	407	241.00	214	366.00	225
91.00	323	167.00	2263	242.00	300	371.00	101
92.00	393	168.00	1220	243.00	410	372.00	674
93.00	1892	169.00	182	244.00	4884	373.00	177
94.00	166	170.00	78	245.00	779	383.00	252
95.00	3	171.00	98	246.00	1001	385.00	30
96.00	39	172.00	247	247.00	184	390.00	86
98.00	1676	173.00	256	249.00	185	392.00	21
99.00	1367	174.00	524	250.00	17	401.00	80
100.00	175	175.00	977	251.00	18	402.00	296
101.00	582	176.00	304	252.00	18	403.00	407
103.00	229	177.00	420	253.00	95	404.00	131
104.00	507	178.00	110	254.00	222	421.00	425
105.00	568	179.00	1542	255.00	24952	422.00	394
106.00	70	180.00	1050	256.00	3601	423.00	3329
107.00	6240	181.00	632	257.00	280	424.00	563
108.00	932	182.00	120	258.00	1357	425.00	46
109.00	214	183.00	30	259.00	285	441.00	8291
110.00	11345	184.00	94	261.00	16	442.00	54960
111.00	1731	185.00	906	262.00	21	443.00	10859
112.00	282	186.00	6039	265.00	625	444.00	944
113.00	21	187.00	1726	266.00	101	445.00	52

Report Date: 11-Apr-2016 23:58:36

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

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12691.D\8270_5R.rslt\spectra.d

Injection Date: 11-Apr-2016 13:27:30

Spectrum: Tune Spec :Average 319-321(5.86-5.87) Bgrd 315(5.84)

Base Peak: 442.00

Minimum % Base Peak: 0

Number of Points: 272

m/z	Y	m/z	Y	m/z	Y	m/z	Y
116.00	267	188.00	180	268.00	35	448.00	58

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12691.D
Injection Date: 11-Apr-2016 13:27:30 Instrument ID: CBNAMS5
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R

ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL

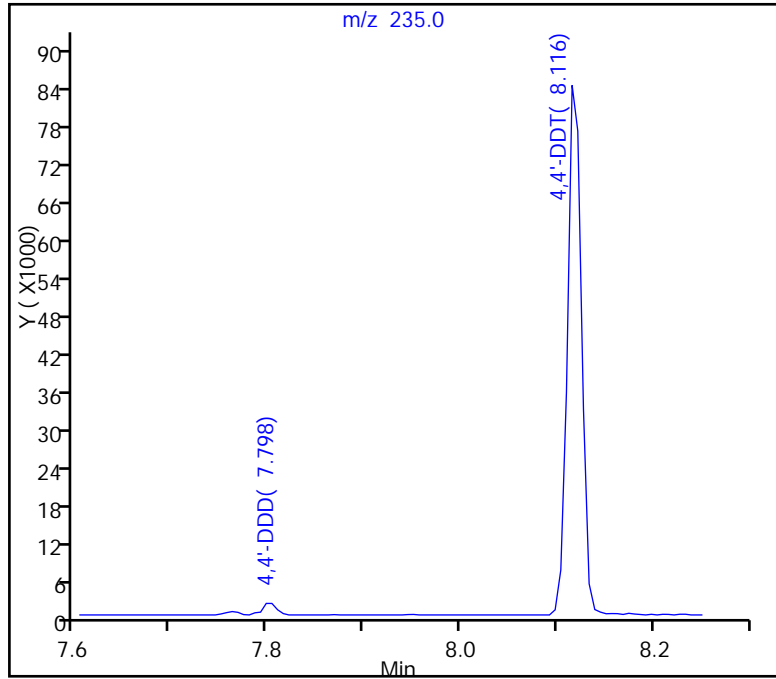
127 4,4'-DDT, Detector: MS SCAN

SW-846 Method

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

127 4,4'-DDT, Area = 85679
126 4,4'-DDD, Area = 1928
125 4,4'-DDE, Area = 0

%Breakdown: 2.20%, Max Limit: 20.00%
Passed



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12691.D
Injection Date: 11-Apr-2016 13:27:30 Instrument ID: CBNAMS5
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R

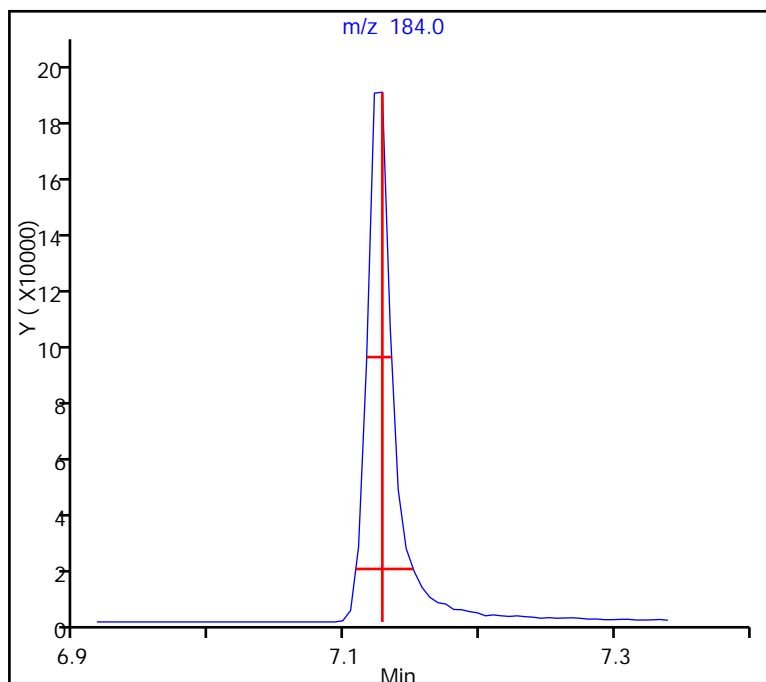
ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL

55 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.023 (min.)
Front Width = 0.020 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00
Passed



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12691.D

Injection Date: 11-Apr-2016 13:27:30

Instrument ID: CBNAMS5

Lims ID: dftpp

Client ID:

Operator ID:

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8270_5R

Limit Group: SV 8270D ICAL

30 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =

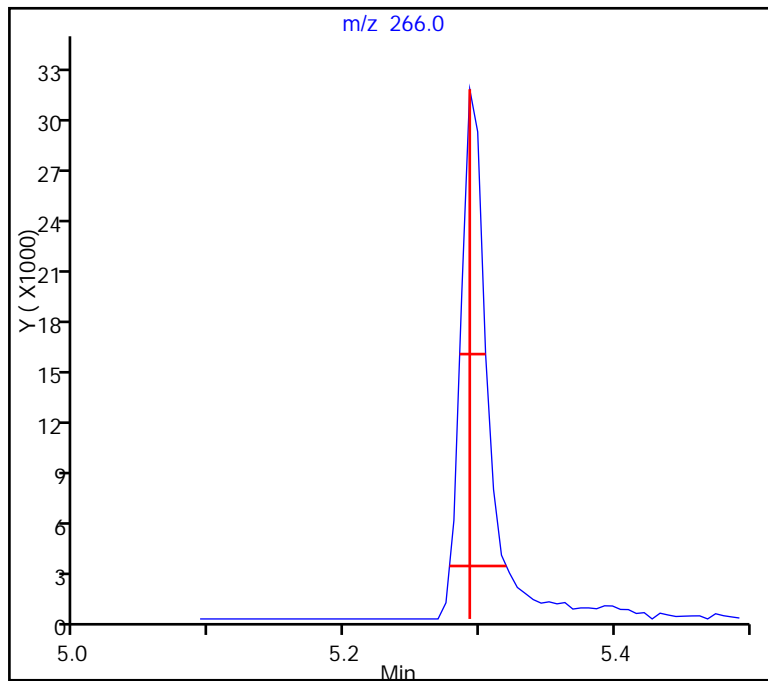
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.027 (min.)

Front Width = 0.015 (min.)

Tailing Factor = 1.8, Max. Tailing < 2.00

Passed



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12814e.D
 Lims ID: dftpp
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 14-Apr-2016 05:37:30 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039822-001
 Misc. Info.: DFTPP
 Operator ID: Instrument ID: CBNAMS5
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 14-Apr-2016 13:10:09 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: asfawa

Date: 14-Apr-2016 05:52:28

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
30 Pentachlorophenol_T	266	5.010	5.010	0.000	91	56367	NR	NR	
55 Benzidine_T	184	6.846	6.846	0.000	99	315561	NR	NR	
124 DFTPP									
126 4,4'-DDD	235	7.516	7.516	0.000	94	3343		NR	
127 4,4'-DDT	235	7.840	7.840	0.000	97	118769	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

SMDFTP_CH_00015

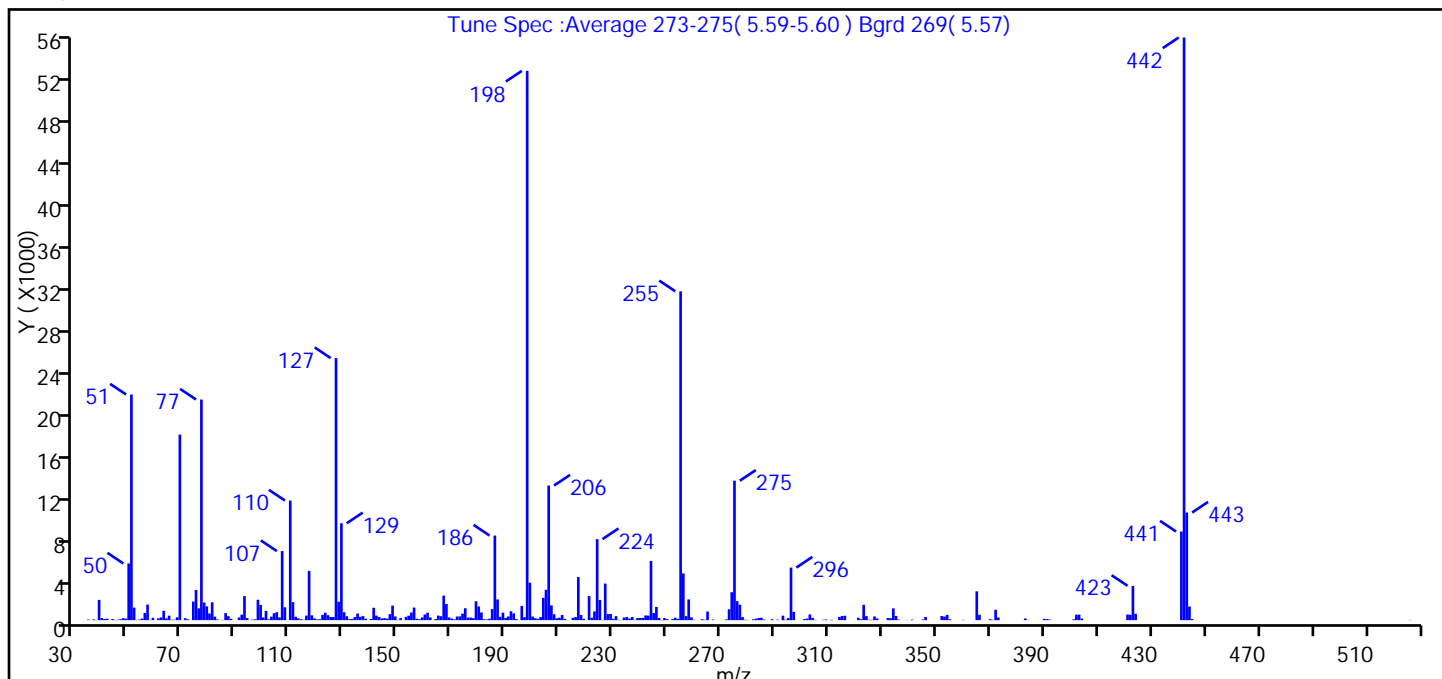
Amount Added: 1.00

Units: mL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12814e.D
Injection Date: 14-Apr-2016 05:37:30 Instrument ID: CBNAMS5
Lims ID: dftpp
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: 8270_5R Limit Group: SV 8270D ICAL
Tune Method: DFTPP Method 8270

124 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	41.1
68	<2% of mass 69	0.5 (1.5)
69	Present	33.8
70	<2% of mass 69	0.0 (0.0)
127	40-60% of mass 198	47.7
197	<1% of mass 198	0.5
199	5-9% of mass 198	6.8
275	10-30% of mass 198	25.4
365	>1% of mass 198	5.2
441	Present but less than mass 443	16.1 (82.3)
442	>40% of mass 198	106.1
443	17-23% of mass 442	19.6 (18.5)

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12814e.D\8270_5R.rslt\spectra.d
Injection Date: 14-Apr-2016 05:37:30
Spectrum: Tune Spec :Average 273-275(5.59-5.60) Bgrd 269(5.57)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	58	119.00	166	197.00	284	281.00	1
37.00	71	120.00	72	198.00	52248	282.00	88
38.00	20	121.00	93	199.00	3556	283.00	143
39.00	1926	122.00	499	200.00	344	284.00	208
40.00	204	123.00	706	201.00	189	285.00	231
41.00	108	124.00	471	202.00	127	286.00	56
42.00	140	125.00	303	203.00	287	289.00	89
44.00	99	126.00	293	204.00	2125	291.00	49
45.00	23	127.00	24928	205.00	2888	293.00	424
46.00	43	128.00	1749	206.00	12804	294.00	49
47.00	87	129.00	9215	207.00	1406	295.00	197
48.00	183	130.00	754	208.00	560	296.00	5001
49.00	150	131.00	370	209.00	173	297.00	787
50.00	5388	132.00	96	210.00	231	301.00	104
51.00	21464	133.00	118	211.00	491	302.00	146
52.00	1194	134.00	290	212.00	121	303.00	544
53.00	24	135.00	625	213.00	12	304.00	214
54.00	60	136.00	311	215.00	223	305.00	28
55.00	154	137.00	386	216.00	291	308.00	37
56.00	684	138.00	138	217.00	4097	309.00	68
57.00	1477	140.00	111	218.00	489	311.00	34
58.00	23	141.00	1177	219.00	130	314.00	307
59.00	220	142.00	430	221.00	2290	315.00	399
61.00	171	143.00	306	222.00	231	316.00	416
62.00	261	144.00	167	223.00	832	321.00	231
63.00	888	145.00	191	224.00	7707	322.00	91
64.00	160	146.00	149	225.00	1918	323.00	1457
65.00	425	147.00	568	226.00	25	324.00	378
66.00	41	148.00	1382	227.00	3478	325.00	34
67.00	36	149.00	351	228.00	575	326.00	38
68.00	273	150.00	25	229.00	589	327.00	350
69.00	17648	151.00	191	230.00	126	328.00	158
71.00	181	153.00	320	231.00	385	332.00	202

Report Date: 14-Apr-2016 13:10:11

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

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12814e.D\8270_5R.rsl\spectra.d

Injection Date: 14-Apr-2016 05:37:30

Spectrum: Tune Spec :Average 273-275(5.59-5.60) Bgrd 269(5.57)

Base Peak: 442.00

Minimum % Base Peak: 0

Number of Points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	81	154.00	424	232.00	26	333.00	182
74.00	1766	155.00	727	233.00	19	334.00	1118
75.00	2875	156.00	1200	234.00	248	335.00	395
76.00	1115	157.00	129	235.00	294	336.00	51
77.00	20984	158.00	85	236.00	159	339.00	19
78.00	1675	159.00	264	237.00	299	341.00	57
79.00	1311	160.00	531	238.00	28	345.00	61
80.00	630	161.00	700	239.00	203	346.00	303
81.00	1698	162.00	255	240.00	211	352.00	389
82.00	337	164.00	107	241.00	211	353.00	337
83.00	62	165.00	435	242.00	450	354.00	504
85.00	21	166.00	374	243.00	432	355.00	91
86.00	665	167.00	2337	244.00	5631	360.00	33
87.00	382	168.00	1535	245.00	676	365.00	2742
88.00	126	169.00	262	246.00	1261	366.00	509
91.00	260	170.00	145	247.00	210	370.00	94
92.00	524	171.00	77	248.00	20	371.00	37
93.00	2287	172.00	346	249.00	200	372.00	991
94.00	198	173.00	355	250.00	98	373.00	250
96.00	52	174.00	619	252.00	97	383.00	162
97.00	79	175.00	1133	253.00	229	384.00	19
98.00	1939	176.00	244	254.00	125	390.00	121
99.00	1445	177.00	241	255.00	31280	391.00	105
100.00	252	178.00	187	256.00	4445	392.00	56
101.00	881	179.00	1793	257.00	382	401.00	81
102.00	84	180.00	1300	258.00	1973	402.00	519
103.00	333	181.00	732	259.00	270	403.00	522
104.00	656	182.00	86	260.00	35	404.00	156
105.00	754	183.00	63	263.00	88	421.00	535
106.00	263	184.00	145	264.00	40	422.00	508
107.00	6568	185.00	1047	265.00	821	423.00	3261
108.00	1223	186.00	8048	267.00	58	424.00	603
110.00	11378	187.00	1971	272.00	76	441.00	8428
111.00	1711	188.00	311	273.00	1036	442.00	55424

Report Date: 14-Apr-2016 13:10:11

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

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12814e.D\8270_5R.rslt\spectra.d

Injection Date: 14-Apr-2016 05:37:30

Spectrum: Tune Spec :Average 273-275(5.59-5.60) Bgrd 269(5.57)

Base Peak: 442.00

Minimum % Base Peak: 0

Number of Points: 293

m/z	Y	m/z	Y	m/z	Y	m/z	Y
112.00	323	189.00	715	274.00	2657	443.00	10235
113.00	164	190.00	215	275.00	13262	444.00	1293
114.00	82	191.00	354	276.00	1806	445.00	107
115.00	43	192.00	846	277.00	1467	526.00	18
116.00	435	193.00	642	278.00	290		
117.00	4682	194.00	103	279.00	42		
118.00	459	196.00	1353	280.00	18		

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12814e.D
Injection Date: 14-Apr-2016 05:37:30 Instrument ID: CBNAMS5
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R

ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL

127 4,4'-DDT, Detector: MS SCAN

SW-846 Method

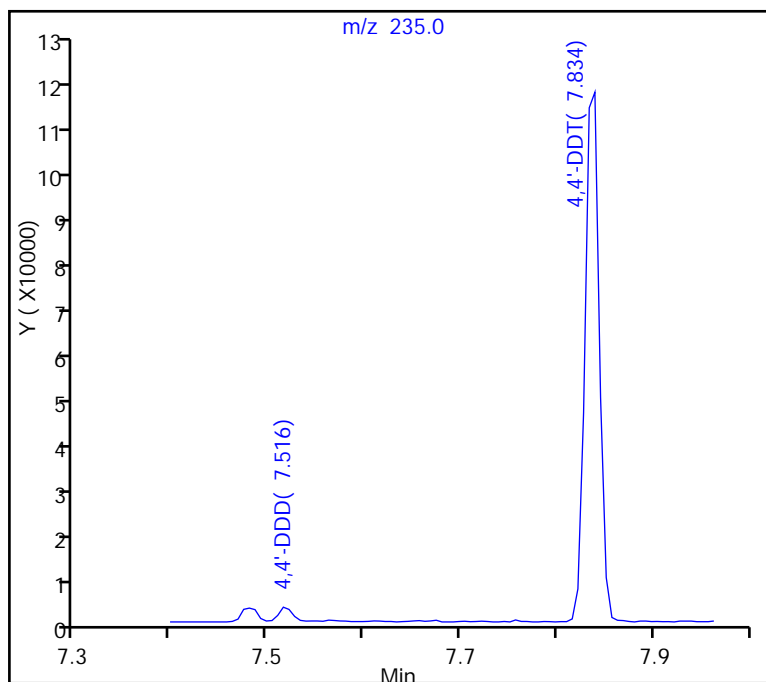
%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

127 4,4'-DDT, Area = 118769

126 4,4'-DDD, Area = 3343

125 4,4'-DDE, Area = 0

%Breakdown: 2.74%, Max Limit: 20.00%
Passed



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12814e.D
Injection Date: 14-Apr-2016 05:37:30 Instrument ID: CBNAMS5
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R

ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL

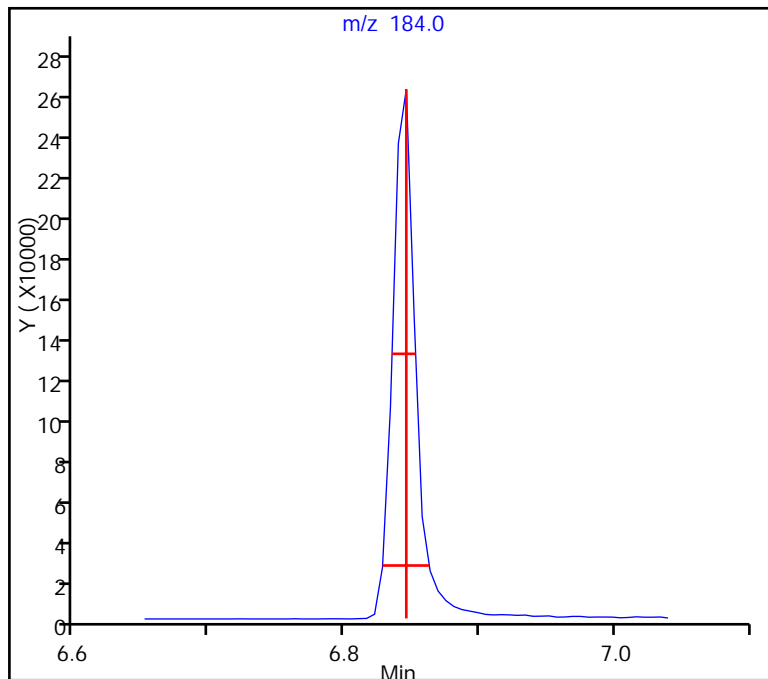
55 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.017 (min.)

Front Width = 0.018 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12814e.D
Injection Date: 14-Apr-2016 05:37:30 Instrument ID: CBNAMS5
Lims ID: dftpp
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8270_5R

ALS Bottle#: 1 Worklist Smp#: 1
Dil. Factor: 1.0000
Limit Group: SV 8270D ICAL

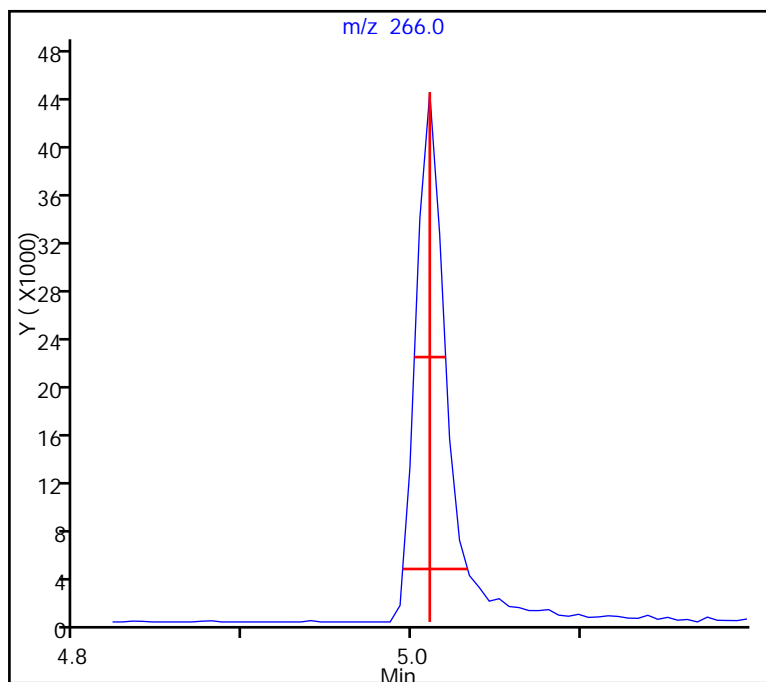
30 Pentachlorophenol_T, Detector: MS SCAN

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

Back Width = 0.022 (min.)

Front Width = 0.016 (min.)

Tailing Factor = 1.4, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112069-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 460-362437/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x12825.D</u>
Analysis Method: <u>8270D</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/14/2016 01:50</u>
Sample wt/vol: <u>15.0000 (g)</u>	Date Analyzed: <u>04/14/2016 10:29</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>362392</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	330	U	330	28
95-94-3	1,2,4,5-Tetrachlorobenzene	330	U	330	25
108-60-1	2,2'-oxybis[1-chloropropane]	330	U	330	14
58-90-2	2,3,4,6-Tetrachlorophenol	330	U	330	31
95-95-4	2,4,5-Trichlorophenol	330	U	330	33
88-06-2	2,4,6-Trichlorophenol	130	U	130	9.4
120-83-2	2,4-Dichlorophenol	130	U	130	7.8
105-67-9	2,4-Dimethylphenol	330	U	330	73
51-28-5	2,4-Dinitrophenol	270	U	270	250
121-14-2	2,4-Dinitrotoluene	67	U	67	13
606-20-2	2,6-Dinitrotoluene	67	U	67	18
91-58-7	2-Chloronaphthalene	330	U	330	7.5
95-57-8	2-Chlorophenol	330	U	330	8.4
91-57-6	2-Methylnaphthalene	330	U	330	7.3
95-48-7	2-Methylphenol	330	U	330	14
88-74-4	2-Nitroaniline	330	U	330	11
88-75-5	2-Nitrophenol	330	U	330	11
91-94-1	3,3'-Dichlorobenzidine	130	U	130	37
99-09-2	3-Nitroaniline	330	U	330	9.8
534-52-1	4,6-Dinitro-2-methylphenol	270	U	270	88
101-55-3	4-Bromophenyl phenyl ether	330	U	330	10
59-50-7	4-Chloro-3-methylphenol	330	U	330	14
106-47-8	4-Chloroaniline	330	U	330	8.5
7005-72-3	4-Chlorophenyl phenyl ether	330	U	330	9.9
106-44-5	4-Methylphenol	330	U	330	9.0
100-01-6	4-Nitroaniline	330	U	330	13
100-02-7	4-Nitrophenol	670	U	670	160
83-32-9	Acenaphthene	330	U	330	8.0
208-96-8	Acenaphthylene	330	U	330	8.5
98-86-2	Acetophenone	330	U	330	7.2
120-12-7	Anthracene	330	U	330	31
1912-24-9	Atrazine	130	U	130	15
100-52-7	Benzaldehyde	330	U	330	25
56-55-3	Benzo[a]anthracene	33	U	33	28

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112069-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 460-362437/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x12825.D</u>
Analysis Method: <u>8270D</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/14/2016 01:50</u>
Sample wt/vol: <u>15.0000 (g)</u>	Date Analyzed: <u>04/14/2016 10:29</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>362392</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	33	U	33	10
205-99-2	Benzo[b]fluoranthene	33	U	33	13
191-24-2	Benzo[g,h,i]perylene	330	U	330	19
207-08-9	Benzo[k]fluoranthene	33	U	33	14
111-91-1	Bis(2-chloroethoxy)methane	330	U	330	10
111-44-4	Bis(2-chloroethyl)ether	33	U	33	7.8
117-81-7	Bis(2-ethylhexyl) phthalate	330	U	330	13
85-68-7	Butyl benzyl phthalate	330	U	330	10
105-60-2	Caprolactam	330	U	330	24
86-74-8	Carbazole	330	U	330	8.2
218-01-9	Chrysene	330	U	330	9.0
53-70-3	Dibenz(a,h)anthracene	33	U	33	17
132-64-9	Dibenzofuran	330	U	330	10
84-66-2	Diethyl phthalate	330	U	330	9.4
131-11-3	Dimethyl phthalate	330	U	330	9.6
84-74-2	Di-n-butyl phthalate	330	U	330	9.9
117-84-0	Di-n-octyl phthalate	330	U	330	17
206-44-0	Fluoranthene	330	U	330	9.8
86-73-7	Fluorene	330	U	330	7.2
118-74-1	Hexachlorobenzene	33	U	33	13
87-68-3	Hexachlorobutadiene	67	U	67	9.3
77-47-4	Hexachlorocyclopentadiene	330	U	330	21
67-72-1	Hexachloroethane	33	U	33	12
193-39-5	Indeno[1,2,3-cd]pyrene	33	U	33	22
78-59-1	Isophorone	130	U	130	7.1
91-20-3	Naphthalene	330	U	330	8.4
98-95-3	Nitrobenzene	33	U	33	10
621-64-7	N-Nitrosodi-n-propylamine	33	U	33	11
86-30-6	N-Nitrosodiphenylamine	330	U	330	30
87-86-5	Pentachlorophenol	270	U	270	40
85-01-8	Phenanthrene	330	U	330	8.8
108-95-2	Phenol	330	U	330	11
129-00-0	Pyrene	330	U	330	15

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112069-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 460-362437/1-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x12825.D</u>
Analysis Method: <u>8270D</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/14/2016 01:50</u>
Sample wt/vol: <u>15.0000 (g)</u>	Date Analyzed: <u>04/14/2016 10:29</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>362392</u>	Units: <u>ug/Kg</u>

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	78		10-95
321-60-8	2-Fluorobiphenyl	69		27-84
367-12-4	2-Fluorophenol (Surr)	65		21-84
4165-60-0	Nitrobenzene-d5 (Surr)	68		28-92
4165-62-2	Phenol-d5 (Surr)	67		22-88
1718-51-0	Terphenyl-d14 (Surr)	87		16-114

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12825.D
 Lims ID: MB 460-362437/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 14-Apr-2016 10:29:30 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039822-012
 Operator ID: Instrument ID: CBNAMS5
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 14-Apr-2016 17:40:45 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: manlangitf

Date: 14-Apr-2016 11:08:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
\$ 4 2-Fluorophenol	112	3.024	2.989	0.035	94	1077747	50.0	32.5	
\$ 6 Phenol-d5	99	3.906	3.924	-0.018	87	1274252	50.0	33.7	
* 14 1,4-Dichlorobenzene-d4	152	4.271	4.265	0.006	97	913776	40.0	40.0	
\$ 26 Nitrobenzene-d5	82	4.824	4.842	-0.018	96	1204303	50.0	34.0	
* 38 Naphthalene-d8	136	5.547	5.547	0.000	99	3366563	40.0	40.0	
\$ 51 2-Fluorobiphenyl	172	6.635	6.641	-0.006	98	2879338	50.0	34.7	
* 65 Acenaphthene-d10	164	7.300	7.300	0.000	91	1956376	40.0	40.0	
\$ 80 2,4,6-Tribromophenol	330	8.077	8.088	-0.011	90	630496	50.0	39.1	
* 88 Phenanthrene-d10	188	8.759	8.765	-0.006	97	2955462	40.0	40.0	
\$ 96 Terphenyl-d14	244	10.335	10.335	0.000	98	2651910	50.0	43.5	
* 102 Chrysene-d12	240	11.512	11.512	0.000	98	1964074	40.0	40.0	
* 109 Perylene-d12	264	13.423	13.423	0.000	99	1445492	40.0	40.0	

Reagents:

SM_ISTD_00105

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\x12825.D

Injection Date: 14-Apr-2016 10:29:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: MB 460-362437/1-A

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

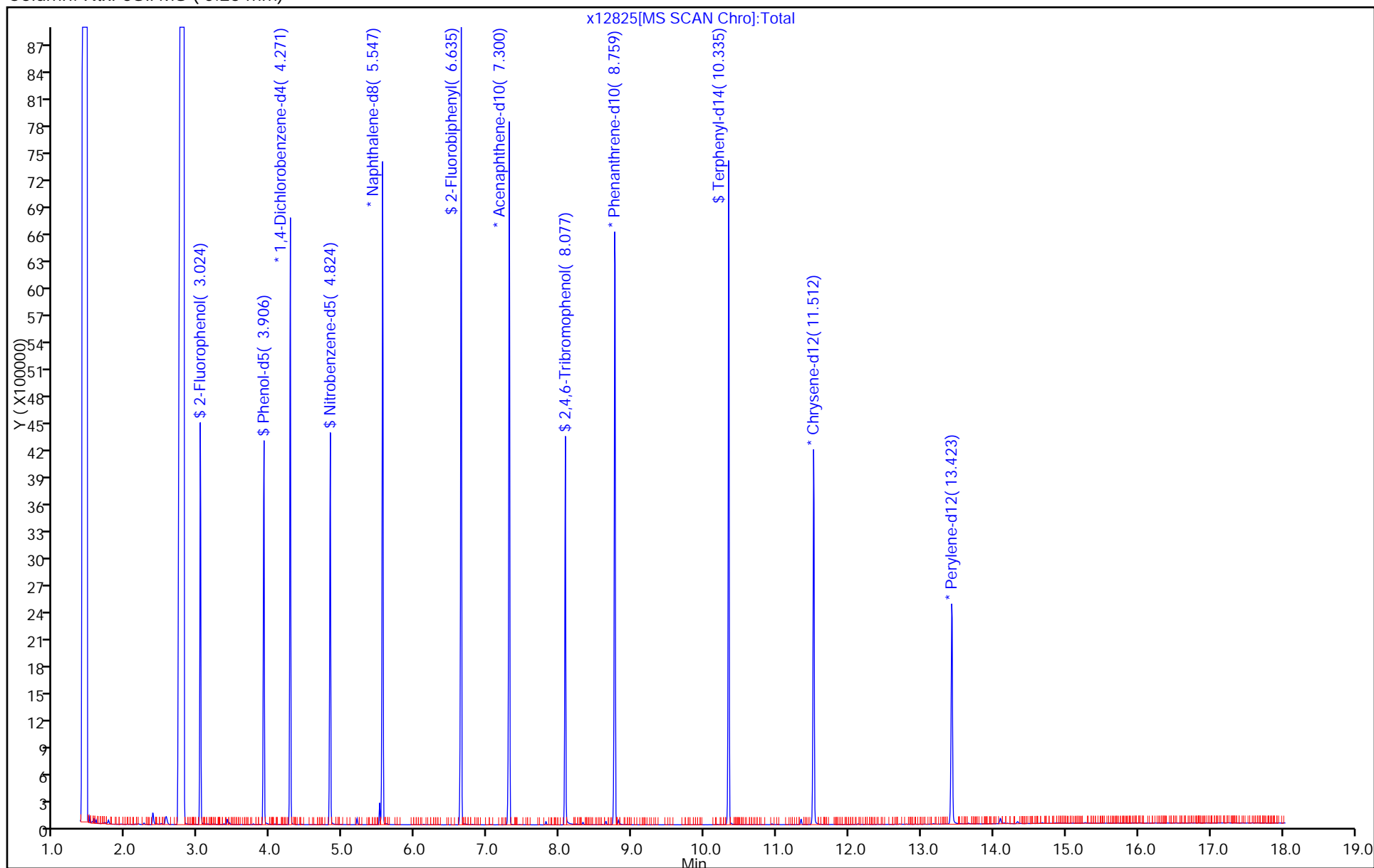
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112069-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 460-362437/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x12826.D</u>
Analysis Method: <u>8270D</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/14/2016 01:50</u>
Sample wt/vol: <u>15.0000 (g)</u>	Date Analyzed: <u>04/14/2016 10:53</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>362392</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	2760		330	28
95-94-3	1,2,4,5-Tetrachlorobenzene	2680		330	25
108-60-1	2,2'-oxybis[1-chloropropane]	2070		330	14
58-90-2	2,3,4,6-Tetrachlorophenol	3030		330	31
95-95-4	2,4,5-Trichlorophenol	2760		330	33
88-06-2	2,4,6-Trichlorophenol	2900		130	9.4
120-83-2	2,4-Dichlorophenol	2610		130	7.8
105-67-9	2,4-Dimethylphenol	2620		330	73
51-28-5	2,4-Dinitrophenol	7270		270	250
121-14-2	2,4-Dinitrotoluene	3290		67	13
606-20-2	2,6-Dinitrotoluene	2980		67	18
91-58-7	2-Chloronaphthalene	2760		330	7.5
95-57-8	2-Chlorophenol	2550		330	8.4
91-57-6	2-Methylnaphthalene	2730		330	7.3
95-48-7	2-Methylphenol	2450		330	14
88-74-4	2-Nitroaniline	2730		330	11
88-75-5	2-Nitrophenol	2840		330	11
91-94-1	3,3'-Dichlorobenzidine	1860		130	37
99-09-2	3-Nitroaniline	2040		330	9.8
534-52-1	4,6-Dinitro-2-methylphenol	7020		270	88
101-55-3	4-Bromophenyl phenyl ether	2930		330	10
59-50-7	4-Chloro-3-methylphenol	2750		330	14
106-47-8	4-Chloroaniline	1970		330	8.5
7005-72-3	4-Chlorophenyl phenyl ether	2870		330	9.9
106-44-5	4-Methylphenol	2820		330	9.0
100-01-6	4-Nitroaniline	2940		330	13
100-02-7	4-Nitrophenol	6280		670	160
83-32-9	Acenaphthene	2690		330	8.0
208-96-8	Acenaphthylene	2830		330	8.5
98-86-2	Acetophenone	2900		330	7.2
120-12-7	Anthracene	2990		330	31
56-55-3	Benzo[a]anthracene	3020		33	28
50-32-8	Benzo[a]pyrene	3400		33	10
205-99-2	Benzo[b]fluoranthene	3520		33	13

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112069-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 460-362437/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x12826.D</u>
Analysis Method: <u>8270D</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/14/2016 01:50</u>
Sample wt/vol: <u>15.0000 (g)</u>	Date Analyzed: <u>04/14/2016 10:53</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>362392</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
191-24-2	Benzo[g,h,i]perylene	2920		330	19
207-08-9	Benzo[k]fluoranthene	3110		33	14
111-91-1	Bis(2-chloroethoxy)methane	2450		330	10
111-44-4	Bis(2-chloroethyl)ether	2180		33	7.8
117-81-7	Bis(2-ethylhexyl) phthalate	3320		330	13
85-68-7	Butyl benzyl phthalate	3160		330	10
86-74-8	Carbazole	3020		330	8.2
218-01-9	Chrysene	2960		330	9.0
53-70-3	Dibenz(a,h)anthracene	3310		33	17
132-64-9	Dibenzofuran	2840		330	10
84-66-2	Diethyl phthalate	3070		330	9.4
131-11-3	Dimethyl phthalate	2980		330	9.6
84-74-2	Di-n-butyl phthalate	3210		330	9.9
117-84-0	Di-n-octyl phthalate	3690		330	17
206-44-0	Fluoranthene	3140		330	9.8
86-73-7	Fluorene	2940		330	7.2
118-74-1	Hexachlorobenzene	2940		33	13
87-68-3	Hexachlorobutadiene	2730		67	9.3
77-47-4	Hexachlorocyclopentadiene	2820		330	21
67-72-1	Hexachloroethane	2430		33	12
193-39-5	Indeno[1,2,3-cd]pyrene	3640		33	22
78-59-1	Isophorone	2440		130	7.1
91-20-3	Naphthalene	2750		330	8.4
98-95-3	Nitrobenzene	2520		33	10
621-64-7	N-Nitrosodi-n-propylamine	2520		33	11
86-30-6	N-Nitrosodiphenylamine	2870		330	30
87-86-5	Pentachlorophenol	6550		270	40
85-01-8	Phenanthrene	2900		330	8.8
108-95-2	Phenol	2460		330	11
129-00-0	Pyrene	2880		330	15

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112069-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 460-362437/2-A</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x12826.D</u>
Analysis Method: <u>8270D</u>	Date Collected: _____
Extract. Method: <u>3546</u>	Date Extracted: <u>04/14/2016 01:50</u>
Sample wt/vol: <u>15.0000 (g)</u>	Date Analyzed: <u>04/14/2016 10:53</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>362392</u>	Units: <u>ug/Kg</u>

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	82		10-95
321-60-8	2-Fluorobiphenyl	77		27-84
367-12-4	2-Fluorophenol (Surr)	66		21-84
4165-60-0	Nitrobenzene-d5 (Surr)	70		28-92
4165-62-2	Phenol-d5 (Surr)	66		22-88
1718-51-0	Terphenyl-d14 (Surr)	90		16-114

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12826.D
 Lims ID: LCS 460-362437/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 14-Apr-2016 10:53:30 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039822-013
 Operator ID: Instrument ID: CBNAMS5
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 14-Apr-2016 17:40:45 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: zhaoc

Date: 14-Apr-2016 12:25:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.736	1.624	0.112	95	361495	50.0	30.0	
2 N-Nitrosodimethylamine	74	1.942	1.859	0.083	63	646727	50.0	38.7	
3 Pyridine	79	1.971	1.883	0.088	81	1048575	50.0	36.4	
\$ 4 2-Fluorophenol	112	3.030	2.989	0.041	94	1132268	50.0	33.0	
\$ 6 Phenol-d5	99	3.924	3.924	0.000	96	1284563	50.0	32.8	
7 Phenol	94	3.936	3.942	-0.006	98	1372053	50.0	37.0	
8 Aniline	93	3.947	3.953	-0.006	96	1413627	50.0	31.4	
9 Bis(2-chloroethyl)ether	93	4.018	4.018	0.000	98	974276	50.0	32.7	
10 Benzonitrile	103	4.030	4.048	-0.018	67	2290056	NC	NC	
11 2-Chlorophenol	128	4.077	4.071	0.006	94	1227862	50.0	38.2	
12 n-Decane	43	4.118	4.124	-0.006	90	1254608	50.0	30.7	
13 1,3-Dichlorobenzene	146	4.218	4.224	-0.006	96	1616492	50.0	39.7	
* 14 1,4-Dichlorobenzene-d4	152	4.277	4.265	0.012	96	945703	40.0	40.0	
15 1,4-Dichlorobenzene	146	4.289	4.295	-0.006	95	1625865	50.0	40.6	
16 Benzyl alcohol	108	4.418	4.424	-0.006	92	793001	50.0	39.7	
17 1,2-Dichlorobenzene	146	4.442	4.448	-0.006	96	1509600	50.0	39.6	
18 2-Methylphenol	108	4.536	4.536	0.000	87	1034974	50.0	36.8	
19 2,2'-oxybis[1-chloropropan	45	4.553	4.559	-0.006	83	1365955	50.0	31.1	
21 Acetophenone	105	4.683	4.695	-0.012	93	1500769	50.0	43.6	
22 N-Nitrosodi-n-propylamine	70	4.689	4.700	-0.011	94	747268	50.0	37.8	
23 3 & 4 Methylphenol	108	4.694	4.706	-0.012	91	1169523	50.0	42.4	
24 4-Methylphenol	108	4.694	4.706	-0.012	88	1169523	50.0	42.4	
20 N-Methylaniline	106	4.789	4.783	0.006	34	846	NC	NC	
25 Hexachloroethane	117	4.783	4.783	0.000	85	526665	50.0	36.5	
\$ 26 Nitrobenzene-d5	82	4.830	4.842	-0.012	95	1206181	50.0	35.0	
28 Nitrobenzene	77	4.853	4.865	-0.012	84	1652755	50.0	37.9	
27 n,n'-Dimethylaniline	120	4.859	4.865	-0.006	96	2019394	50.0	41.5	
31 Isophorone	82	5.100	5.112	-0.012	95	1944305	50.0	36.6	
32 2-Nitrophenol	139	5.171	5.177	-0.006	85	699656	50.0	42.6	
33 2,4-Dimethylphenol	122	5.224	5.230	-0.006	90	1062013	50.0	39.3	
34 Bis(2-chloroethoxy)methane	93	5.318	5.324	-0.006	99	1046725	50.0	36.8	
35 Benzoic acid	122	5.371	5.377	-0.006	92	488466	50.0	40.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
36 2,4-Dichlorophenol	162	5.418	5.424	-0.006	94	1101349	50.0	39.2	
37 1,2,4-Trichlorobenzene	180	5.500	5.500	0.000	93	1362625	50.0	39.8	
* 38 Naphthalene-d8	136	5.553	5.547	0.006	99	3275789	40.0	40.0	
39 Naphthalene	128	5.577	5.583	-0.006	100	3559564	50.0	41.2	
40 4-Chloroaniline	127	5.636	5.642	-0.006	96	977905	50.0	29.6	
41 Hexachlorobutadiene	225	5.706	5.712	-0.006	96	956306	50.0	41.0	
43 4-Chloro-3-methylphenol	107	6.124	6.130	-0.006	94	910693	50.0	41.2	
44 2-Methylnaphthalene	142	6.271	6.271	0.000	85	2449439	50.0	41.0	
45 1-Methylnaphthalene	142	6.371	6.371	0.000	93	2269468	50.0	44.3	
46 Hexachlorocyclopentadiene	237	6.436	6.436	0.000	97	1083841	50.0	42.3	
47 1,2,4,5-Tetrachlorobenzene	216	6.441	6.447	-0.006	97	1370729	50.0	40.3	
48 2-tertbutyl-4-methylphenol	149	6.477	6.483	-0.006	91	1776123	50.0	45.4	
49 2,4,6-Trichlorophenol	196	6.553	6.559	-0.006	96	821370	50.0	43.5	
50 2,4,5-Trichlorophenol	196	6.588	6.594	-0.006	96	792171	50.0	41.3	
\$ 51 2-Fluorobiphenyl	172	6.641	6.641	0.000	98	2868800	50.0	38.6	
52 1,1'-Biphenyl	154	6.736	6.741	-0.005	94	3033854	50.0	41.4	
53 2-Chloronaphthalene	162	6.753	6.759	-0.006	98	2286494	50.0	41.5	
54 Phenyl ether	170	6.841	6.841	0.000	84	1728763	50.0	43.3	
56 2-Nitroaniline	65	6.859	6.865	-0.006	94	686948	50.0	40.9	
57 1,3-Dimethylnaphthalene	156	6.971	6.977	-0.006	94	2008550	50.0	44.8	
58 Dimethyl phthalate	163	7.053	7.059	-0.006	99	2278044	50.0	44.6	
59 Coumarin	146	7.065	7.071	-0.006	76	711067	50.0	49.3	
60 2,6-Dinitrotoluene	165	7.100	7.106	-0.006	94	509995	50.0	44.7	
61 Acenaphthylene	152	7.165	7.171	-0.006	97	3246694	50.0	42.4	
64 3-Nitroaniline	138	7.265	7.271	-0.006	94	350217	50.0	30.7	
* 65 Acenaphthene-d10	164	7.306	7.300	0.006	90	1750516	40.0	40.0	
66 3,5-di-tert-butyl-4-hydrox	205	7.336	7.336	0.000	96	2840190	50.0	44.7	
67 Acenaphthene	154	7.341	7.341	0.000	93	2048160	50.0	40.3	
68 2,4-Dinitrophenol	184	7.371	7.377	-0.006	94	591885	100.0	109.0	
69 4-Nitrophenol	65	7.441	7.447	-0.006	86	635850	100.0	94.1	
70 2,4-Dinitrotoluene	165	7.500	7.506	-0.006	94	632357	50.0	49.4	
71 Dibenzofuran	168	7.512	7.512	0.000	97	3091420	50.0	42.5	
72 2,3,4,6-Tetrachlorophenol	232	7.630	7.636	-0.006	97	670914	50.0	45.5	
73 Diethyl phthalate	149	7.747	7.747	0.000	99	2033295	50.0	46.0	
74 4-Chlorophenyl phenyl ethe	204	7.847	7.847	0.000	81	1284442	50.0	43.0	
75 Fluorene	166	7.847	7.847	0.000	95	2309742	50.0	44.1	
76 4-Nitroaniline	138	7.877	7.883	-0.006	83	399578	50.0	44.0	
77 4,6-Dinitro-2-methylphenol	198	7.906	7.912	-0.006	90	787417	100.0	105.4	
78 N-Nitrosodiphenylamine	169	7.965	7.971	-0.006	66	1666305	50.0	43.1	
79 1,2-Diphenylhydrazine	77	8.000	8.006	-0.006	93	1719131	50.0	39.5	
\$ 80 2,4,6-Tribromophenol	330	8.083	8.088	-0.006	90	592075	50.0	41.0	
81 4-Bromophenyl phenyl ether	248	8.324	8.330	-0.006	93	850852	50.0	43.9	
83 Hexachlorobenzene	284	8.394	8.394	0.000	93	1024208	50.0	44.2	
85 Pentachlorophenol	266	8.582	8.588	-0.006	95	1068645	100.0	98.3	
86 Pentachloronitrobenzene	237	8.600	8.600	0.000	91	410247	50.0	55.8	
87 n-Octadecane	57	8.671	8.671	0.000	96	1123878	50.0	36.3	
* 88 Phenanthrene-d10	188	8.765	8.765	0.000	97	2437335	40.0	40.0	
89 Phenanthrene	178	8.788	8.794	-0.006	96	2968075	50.0	43.5	
90 Anthracene	178	8.841	8.841	0.000	99	3088383	50.0	44.9	
91 Carbazole	167	8.994	9.000	-0.006	96	2302079	50.0	45.4	
92 Di-n-butyl phthalate	149	9.341	9.341	0.000	100	2831004	50.0	48.1	
93 Fluoranthene	202	9.953	9.959	-0.006	98	2782038	50.0	47.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
94 Benzidine	184	10.082	10.088	-0.006	99	805851	50.0	36.8	
95 Pyrene	202	10.176	10.182	-0.006	98	2726994	50.0	43.2	
82 Bisphenol-A	213	10.229	10.229	0.000	99	475299	25.0	28.8	
\$ 96 Terphenyl-d14	244	10.335	10.335	0.000	98	2282037	50.0	44.9	
97 Butyl benzyl phthalate	149	10.859	10.859	0.000	96	909547	50.0	47.4	
99 Carbamazepine	193	10.976	10.982	-0.006	90	696355	50.0	43.3	
100 3,3'-Dichlorobenzidine	252	11.471	11.476	-0.005	98	450091	50.0	27.8	
101 Benzo[a]anthracene	228	11.500	11.506	-0.006	96	2148159	50.0	45.3	
* 102 Chrysene-d12	240	11.518	11.512	0.006	98	1638109	40.0	40.0	
103 Chrysene	228	11.547	11.547	0.000	99	1897224	50.0	44.3	
104 Bis(2-ethylhexyl) phthalat	149	11.553	11.553	0.000	88	1247657	50.0	49.7	
105 Di-n-octyl phthalate	149	12.406	12.406	0.000	97	1835705	50.0	55.4	
106 Benzo[b]fluoranthene	252	12.906	12.906	0.000	96	1777623	50.0	52.8	
107 Benzo[k]fluoranthene	252	12.941	12.941	0.000	96	1687333	50.0	46.6	
108 Benzo[a]pyrene	252	13.347	13.347	0.000	98	1542054	50.0	51.0	
* 109 Perylene-d12	264	13.423	13.423	0.000	98	1279756	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	14.923	14.929	-0.006	96	1405772	50.0	54.5	
111 Dibenz(a,h)anthracene	278	14.964	14.964	0.000	99	1408454	50.0	49.7	
112 Benzo[g,h,i]perylene	276	15.341	15.347	-0.006	95	1391469	50.0	43.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

Reagents:

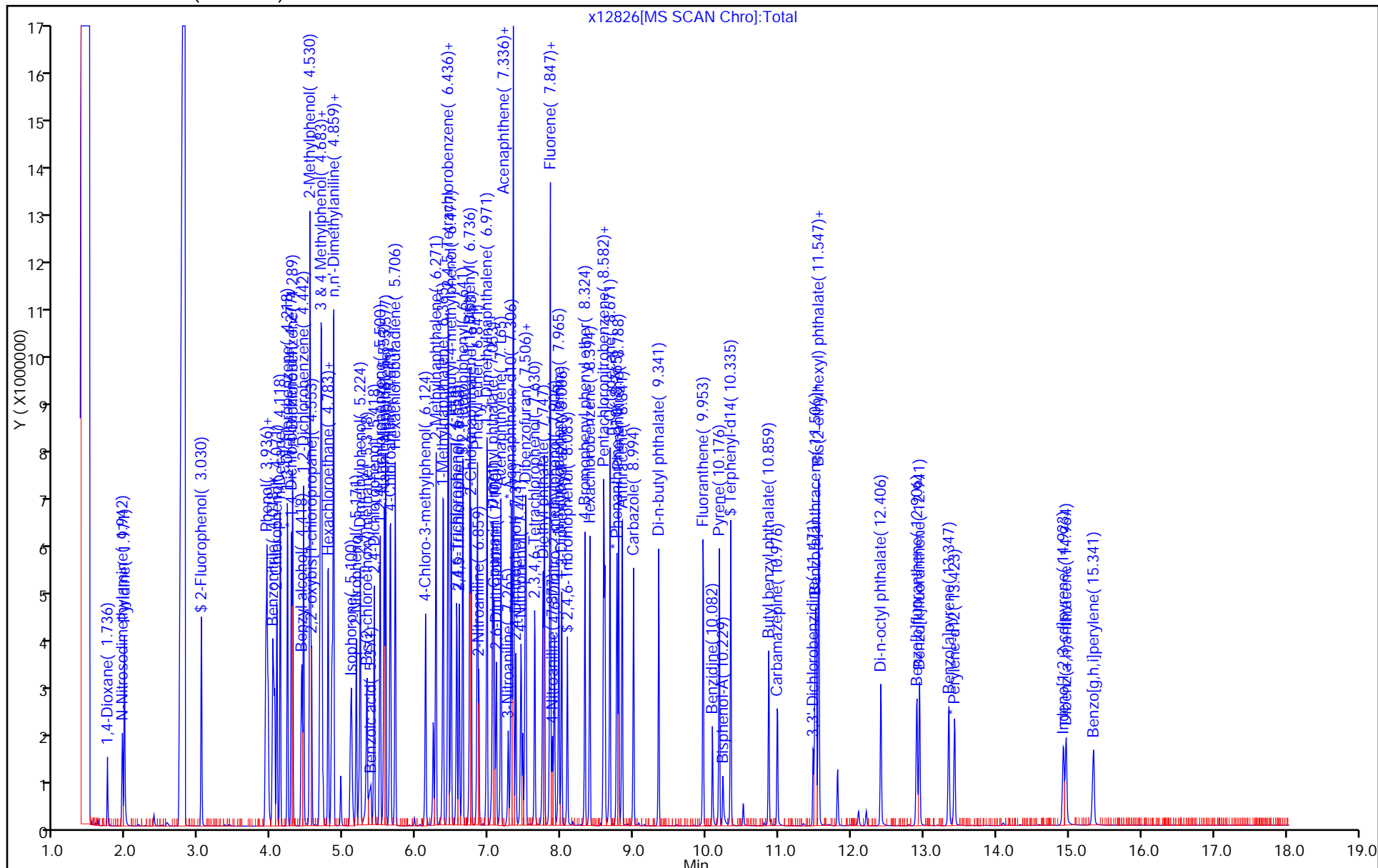
SM_ISTD_00105

Amount Added: 20.00

Units: uL

Run Reagent

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-112069-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 460-362437/3-A
 Matrix: Solid Lab File ID: x12827.D
 Analysis Method: 8270D Date Collected: _____
 Extract. Method: 3546 Date Extracted: 04/14/2016 01:50
 Sample wt/vol: 15.0000 (g) Date Analyzed: 04/14/2016 11:17
 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.: 362392 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1912-24-9	Atrazine	7110		130	15
100-52-7	Benzaldehyde	4940		330	25
105-60-2	Caprolactam	7170		330	24

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	74		10-95
321-60-8	2-Fluorobiphenyl	73		27-84
367-12-4	2-Fluorophenol (Surr)	68		21-84
4165-60-0	Nitrobenzene-d5 (Surr)	71		28-92
4165-62-2	Phenol-d5 (Surr)	66		22-88
1718-51-0	Terphenyl-d14 (Surr)	88		16-114

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12827.D
 Lims ID: LCS 460-362437/3-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 14-Apr-2016 11:17:30 ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039822-014
 Operator ID: Instrument ID: CBNAMS5
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 14-Apr-2016 17:40:45 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: zhaoc

Date: 14-Apr-2016 12:25:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
\$ 4 2-Fluorophenol	112	3.030	2.989	0.041	94	1141603	50.0	33.9	
5 Benzaldehyde	77	3.847	3.830	0.017	88	1913056	100.0	74.1	
\$ 6 Phenol-d5	99	3.906	3.924	-0.018	86	1270668	50.0	33.0	
* 14 1,4-Dichlorobenzene-d4	152	4.271	4.265	0.006	97	928152	40.0	40.0	
\$ 26 Nitrobenzene-d5	82	4.824	4.842	-0.018	95	1252682	50.0	35.3	
* 38 Naphthalene-d8	136	5.547	5.547	0.000	99	3374289	40.0	40.0	
42 Caprolactam	113	5.988	5.965	0.023	86	697661	100.0	107.6	
\$ 51 2-Fluorobiphenyl	172	6.635	6.641	-0.006	98	3064073	50.0	36.6	
* 65 Acenaphthene-d10	164	7.300	7.300	0.000	90	1971805	40.0	40.0	
\$ 80 2,4,6-Tribromophenol	330	8.077	8.088	-0.011	90	603655	50.0	37.1	
84 Atrazine	200	8.500	8.494	0.006	94	1569936	100.0	106.6	
* 88 Phenanthrene-d10	188	8.759	8.765	-0.006	97	2884791	40.0	40.0	
\$ 96 Terphenyl-d14	244	10.335	10.335	0.000	98	2638575	50.0	44.0	
* 102 Chrysene-d12	240	11.512	11.512	0.000	98	1932201	40.0	40.0	
* 109 Perylene-d12	264	13.423	13.423	0.000	98	1473844	40.0	40.0	

Reagents:

SM_ISTD_00105 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160413-39822.b\\x12827.D

Injection Date: 14-Apr-2016 11:17:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: LCS 460-362437/3-A

Worklist Smp#: 14

Client ID:

Injection Vol: 1.0 ul

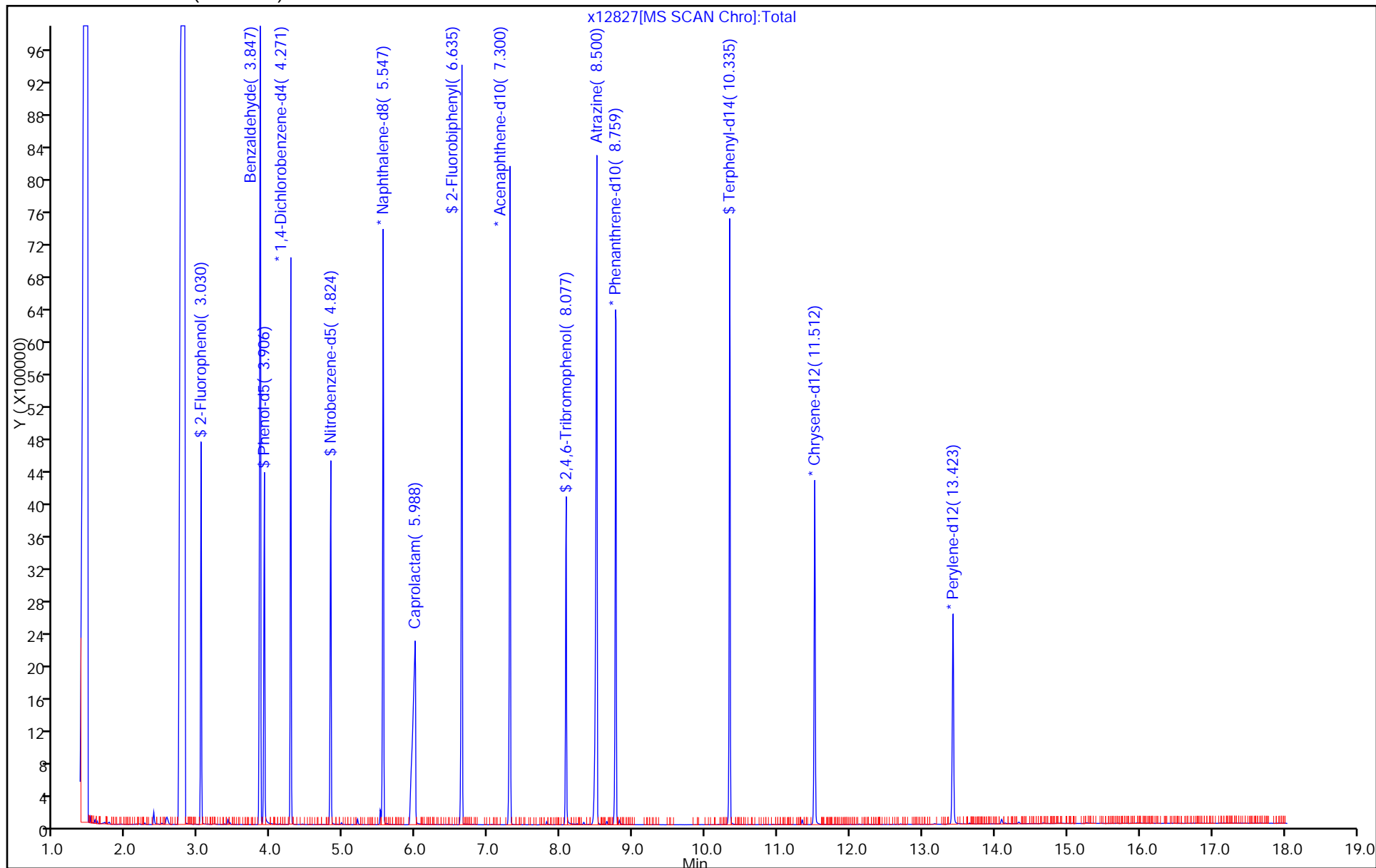
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112069-1</u>
SDG No.: _____	
Client Sample ID: <u>A3 MS</u>	Lab Sample ID: <u>460-112069-1 MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x12829.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>04/13/2016 12:10</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/14/2016 01:50</u>
Sample wt/vol: <u>15.0112(g)</u>	Date Analyzed: <u>04/14/2016 12:05</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: <u>9.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>362392</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	2930		370	31
95-94-3	1,2,4,5-Tetrachlorobenzene	2780		370	27
108-60-1	2,2'-oxybis[1-chloropropane]	2060		370	15
58-90-2	2,3,4,6-Tetrachlorophenol	2590		370	34
95-95-4	2,4,5-Trichlorophenol	2460		370	36
88-06-2	2,4,6-Trichlorophenol	2790		150	10
120-83-2	2,4-Dichlorophenol	2470		150	8.6
105-67-9	2,4-Dimethylphenol	2500		370	81
51-28-5	2,4-Dinitrophenol	5690		290	280
121-14-2	2,4-Dinitrotoluene	3320		74	15
606-20-2	2,6-Dinitrotoluene	3160		74	20
91-58-7	2-Chloronaphthalene	2880		370	8.3
95-57-8	2-Chlorophenol	2350		370	9.3
91-57-6	2-Methylnaphthalene	2630		370	8.1
95-48-7	2-Methylphenol	2280		370	16
88-74-4	2-Nitroaniline	2990		370	12
88-75-5	2-Nitrophenol	2870		370	12
91-94-1	3,3'-Dichlorobenzidine	2780		150	41
99-09-2	3-Nitroaniline	2380		370	11
534-52-1	4,6-Dinitro-2-methylphenol	6250		290	98
101-55-3	4-Bromophenyl phenyl ether	2940		370	12
59-50-7	4-Chloro-3-methylphenol	2490		370	16
106-47-8	4-Chloroaniline	1600		370	9.4
7005-72-3	4-Chlorophenyl phenyl ether	2880		370	11
106-44-5	4-Methylphenol	2580		370	10
100-01-6	4-Nitroaniline	3080		370	14
100-02-7	4-Nitrophenol	5820		740	180
83-32-9	Acenaphthene	2730		370	8.9
208-96-8	Acenaphthylene	2880		370	9.4
98-86-2	Acetophenone	2550		370	8.0
120-12-7	Anthracene	2950		370	35
1912-24-9	Atrazine	7310		150	16
100-52-7	Benzaldehyde	3000		370	28
56-55-3	Benzo[a]anthracene	3270		37	31

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112069-1</u>
SDG No.: _____	
Client Sample ID: <u>A3 MS</u>	Lab Sample ID: <u>460-112069-1 MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x12829.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>04/13/2016 12:10</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/14/2016 01:50</u>
Sample wt/vol: <u>15.0112(g)</u>	Date Analyzed: <u>04/14/2016 12:05</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: <u>9.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>362392</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	3550		37	11
205-99-2	Benzo[b]fluoranthene	3290		37	14
191-24-2	Benzo[g,h,i]perylene	4300		370	21
207-08-9	Benzo[k]fluoranthene	2850		37	16
111-91-1	Bis(2-chloroethoxy)methane	2610		370	11
111-44-4	Bis(2-chloroethyl)ether	2200		37	8.6
117-81-7	Bis(2-ethylhexyl) phthalate	3300		370	14
85-68-7	Butyl benzyl phthalate	3340		370	11
105-60-2	Caprolactam	5530		370	26
86-74-8	Carbazole	2910		370	9.1
218-01-9	Chrysene	3320		370	10
53-70-3	Dibenz(a,h)anthracene	4540		37	19
132-64-9	Dibenzofuran	2810		370	11
84-66-2	Diethyl phthalate	3400		370	10
131-11-3	Dimethyl phthalate	3320		370	11
84-74-2	Di-n-butyl phthalate	3510		370	11
117-84-0	Di-n-octyl phthalate	2580		370	19
206-44-0	Fluoranthene	3350		370	11
86-73-7	Fluorene	2800		370	8.0
118-74-1	Hexachlorobenzene	2740		37	15
87-68-3	Hexachlorobutadiene	2700		74	10
77-47-4	Hexachlorocyclopentadiene	2640		370	23
67-72-1	Hexachloroethane	2380		37	13
193-39-5	Indeno[1,2,3-cd]pyrene	5290		37	24
78-59-1	Isophorone	2580		150	7.9
91-20-3	Naphthalene	2740		370	9.3
98-95-3	Nitrobenzene	2680		37	12
621-64-7	N-Nitrosodi-n-propylamine	2400		37	12
86-30-6	N-Nitrosodiphenylamine	3160		370	33
87-86-5	Pentachlorophenol	5530		290	44
85-01-8	Phenanthrene	3180		370	9.8
108-95-2	Phenol	2320		370	12
129-00-0	Pyrene	2930		370	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112069-1</u>
SDG No.: _____	
Client Sample ID: <u>A3 MS</u>	Lab Sample ID: <u>460-112069-1 MS</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x12829.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>04/13/2016 12:10</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/14/2016 01:50</u>
Sample wt/vol: <u>15.0112(g)</u>	Date Analyzed: <u>04/14/2016 12:05</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: <u>9.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>362392</u>	Units: <u>ug/Kg</u>

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	57		10-95
321-60-8	2-Fluorobiphenyl	73		27-84
367-12-4	2-Fluorophenol (Surr)	55		21-84
4165-60-0	Nitrobenzene-d5 (Surr)	65		28-92
4165-62-2	Phenol-d5 (Surr)	54		22-88
1718-51-0	Terphenyl-d14 (Surr)	70		16-114

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12829.D
 Lims ID: 460-112069-A-1-A MS
 Client ID:
 Sample Type: MS
 Inject. Date: 14-Apr-2016 12:05:30 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0039822-016
 Operator ID: Instrument ID: CBNAMS5
 Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\8270_5R.m
 Limit Group: SV 8270D ICAL
 Last Update: 14-Apr-2016 17:43:29 Calib Date: 11-Apr-2016 19:51:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D
 Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: XAWRK033

First Level Reviewer: zhaoc

Date: 14-Apr-2016 12:41:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.724	1.624	0.100	95	301909	50.0	30.9	
2 N-Nitrosodimethylamine	74	1.936	1.859	0.077	60	512100	50.0	37.7	
3 Pyridine	79	1.959	1.883	0.076	80	874307	50.0	37.4	
\$ 4 2-Fluorophenol	112	3.089	2.989	0.100	94	770616	50.0	27.7	
5 Benzaldehyde	77	3.859	3.830	0.029	87	865277	100.0	40.5	
\$ 6 Phenol-d5	99	3.930	3.924	0.006	90	857429	50.0	27.0	
7 Phenol	94	3.942	3.942	0.000	98	946163	50.0	31.4	
8 Aniline	93	3.965	3.953	0.012	98	836140	50.0	22.9	
9 Bis(2-chloroethyl)ether	93	4.024	4.018	0.006	98	720828	50.0	29.8	
10 Benzonitrile	103	4.042	4.048	-0.006	67	1640266	NC	NC	
11 2-Chlorophenol	128	4.083	4.071	0.012	94	831309	50.0	31.9	
12 n-Decane	43	4.118	4.124	-0.006	89	1018342	50.0	30.7	
13 1,3-Dichlorobenzene	146	4.230	4.224	0.006	96	1182481	50.0	35.8	
* 14 1,4-Dichlorobenzene-d4	152	4.283	4.265	0.018	96	767537	40.0	40.0	
15 1,4-Dichlorobenzene	146	4.300	4.295	0.005	94	1183637	50.0	36.4	
16 Benzyl alcohol	108	4.418	4.424	-0.006	91	561301	50.0	34.6	
17 1,2-Dichlorobenzene	146	4.447	4.448	-0.001	96	1077618	50.0	34.9	
18 2-Methylphenol	108	4.536	4.536	0.000	73	704304	50.0	30.9	
19 2,2'-oxybis[1-chloropropan	45	4.553	4.559	-0.006	85	1011160	50.0	27.9	
21 Acetophenone	105	4.683	4.695	-0.012	94	964979	50.0	34.5	
22 N-Nitrosodi-n-propylamine	70	4.689	4.700	-0.011	95	521154	50.0	32.5	
23 3 & 4 Methylphenol	108	4.695	4.706	-0.011	90	783433	50.0	35.0	
24 4-Methylphenol	108	4.695	4.706	-0.011	86	783433	50.0	35.0	
20 N-Methylaniline	106	4.859	4.783	0.076	48	55292	NC	NC	
25 Hexachloroethane	117	4.783	4.783	0.000	85	376817	50.0	32.1	
\$ 26 Nitrobenzene-d5	82	4.836	4.842	-0.006	94	828758	50.0	32.5	
28 Nitrobenzene	77	4.853	4.865	-0.012	80	1171959	50.0	36.2	
27 n,n'-Dimethylaniline	120	4.859	4.865	-0.006	88	1443682	50.0	36.5	
29 2-Toluidine	107	4.965	4.968	-0.003	35	8205		NC	
31 Isophorone	82	5.095	5.112	-0.018	95	1373086	50.0	34.9	
32 2-Nitrophenol	139	5.171	5.177	-0.006	84	473474	50.0	38.9	
33 2,4-Dimethylphenol	122	5.230	5.230	0.000	93	677022	50.0	33.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Bis(2-chloroethoxy)methane	93	5.312	5.324	-0.012	99	743737	50.0	35.3	
35 Benzoic acid	122	5.342	5.377	-0.035	93	187952	50.0	22.3	
36 2,4-Dichlorophenol	162	5.418	5.424	-0.006	94	694776	50.0	33.4	
37 1,2,4-Trichlorobenzene	180	5.500	5.500	0.000	94	904574	50.0	35.7	
* 38 Naphthalene-d8	136	5.553	5.547	0.006	99	2426971	40.0	40.0	
39 Naphthalene	128	5.577	5.583	-0.006	99	2377197	50.0	37.1	
40 4-Chloroaniline	127	5.636	5.642	-0.006	97	532072	50.0	21.7	
41 Hexachlorobutadiene	225	5.706	5.712	-0.006	96	631903	50.0	36.6	
42 Caprolactam	113	6.024	5.965	0.059	85	349047	100.0	74.8	
43 4-Chloro-3-methylphenol	107	6.142	6.130	0.012	96	550225	50.0	33.6	
44 2-Methylnaphthalene	142	6.271	6.271	0.000	85	1574540	50.0	35.6	
45 1-Methylnaphthalene	142	6.365	6.371	-0.006	92	1430040	50.0	37.7	
46 Hexachlorocyclopentadiene	237	6.436	6.436	0.000	96	594653	50.0	35.7	
47 1,2,4,5-Tetrachlorobenzene	216	6.441	6.447	-0.006	98	834121	50.0	37.6	
48 2-tertbutyl-4-methylphenol	149	6.483	6.483	0.000	90	1054148	50.0	36.4	
49 2,4,6-Trichlorophenol	196	6.559	6.559	0.000	91	464305	50.0	37.8	
50 2,4,5-Trichlorophenol	196	6.600	6.594	0.006	95	415073	50.0	33.3	
\$ 51 2-Fluorobiphenyl	172	6.636	6.641	-0.005	98	1772360	50.0	36.7	
52 1,1'-Biphenyl	154	6.736	6.741	-0.005	94	1889050	50.0	39.6	
53 2-Chloronaphthalene	162	6.753	6.759	-0.006	98	1398229	50.0	38.9	
54 Phenyl ether	170	6.841	6.841	0.000	84	1090712	50.0	41.9	
56 2-Nitroaniline	65	6.859	6.865	-0.006	95	442697	50.0	40.5	
57 1,3-Dimethylnaphthalene	156	6.971	6.977	-0.006	93	1209696	50.0	41.5	
58 Dimethyl phthalate	163	7.047	7.059	-0.012	100	1491746	50.0	44.9	
59 Coumarin	146	7.059	7.071	-0.012	75	452823	50.0	42.4	
60 2,6-Dinitrotoluene	165	7.100	7.106	-0.006	94	318107	50.0	42.8	
61 Acenaphthylene	152	7.165	7.171	-0.006	97	1941131	50.0	39.0	
64 3-Nitroaniline	138	7.265	7.271	-0.006	94	239662	50.0	32.2	
* 65 Acenaphthene-d10	164	7.306	7.300	0.006	90	1140284	40.0	40.0	
66 3,5-di-tert-butyl-4-hydrox	205	7.330	7.336	-0.006	96	1676343	50.0	40.5	
67 Acenaphthene	154	7.336	7.341	-0.005	93	1223926	50.0	37.0	
68 2,4-Dinitrophenol	184	7.365	7.377	-0.012	94	260494	100.0	77.0	
69 4-Nitrophenol	65	7.441	7.447	-0.006	84	346247	100.0	78.7	
70 2,4-Dinitrotoluene	165	7.494	7.506	-0.012	93	374701	50.0	44.9	
71 Dibenzofuran	168	7.506	7.512	-0.006	95	1800268	50.0	38.0	
72 2,3,4,6-Tetrachlorophenol	232	7.630	7.636	-0.006	96	336596	50.0	35.0	
73 Diethyl phthalate	149	7.741	7.747	-0.006	98	1323424	50.0	46.0	
74 4-Chlorophenyl phenyl ethe	204	7.841	7.847	-0.006	80	758729	50.0	39.0	
75 Fluorene	166	7.841	7.847	-0.006	93	1290801	50.0	37.9	
76 4-Nitroaniline	138	7.865	7.883	-0.018	84	246117	50.0	41.6	
77 4,6-Dinitro-2-methylphenol	198	7.900	7.912	-0.012	87	361959	100.0	84.6	
78 N-Nitrosodiphenylamine	169	7.959	7.971	-0.012	67	951687	50.0	42.7	
79 1,2-Diphenylhydrazine	77	8.000	8.006	-0.006	92	1042596	50.0	41.7	
\$ 80 2,4,6-Tribromophenol	330	8.083	8.088	-0.005	92	267815	50.0	28.5	
81 4-Bromophenyl phenyl ether	248	8.324	8.330	-0.006	92	443015	50.0	39.7	
63 2-Naphthylamine	143	8.388	8.385	0.003	45	31758		NC	
62 1-Naphthylamine	143	8.324	8.385	-0.061	51	37506		NC	
83 Hexachlorobenzene	284	8.388	8.394	-0.006	94	494735	50.0	37.1	
84 Atrazine	200	8.494	8.494	0.000	94	708252	100.0	98.9	
85 Pentachlorophenol	266	8.583	8.588	-0.005	94	468113	100.0	74.8	
86 Pentachloronitrobenzene	237	8.600	8.600	0.000	91	203138	50.0	48.0	
87 n-Octadecane	57	8.671	8.671	0.000	95	640066	50.0	36.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 88 Phenanthrene-d10	188	8.765	8.765	0.000	97	1402443	40.0	40.0	s
89 Phenanthrene	178	8.788	8.794	-0.006	96	1687467	50.0	43.0	
90 Anthracene	178	8.835	8.841	-0.006	99	1580319	50.0	39.9	
91 Carbazole	167	8.994	9.000	-0.006	96	1151907	50.0	39.4	
92 Di-n-butyl phthalate	149	9.341	9.341	0.000	99	1609845	50.0	47.5	
93 Fluoranthene	202	9.953	9.959	-0.006	98	1539356	50.0	45.3	
94 Benzidine	184	10.082	10.088	-0.006	99	81531	50.0	6.48	
95 Pyrene	202	10.177	10.182	-0.005	98	1440627	50.0	39.6	
82 Bisphenol-A	213	10.224	10.229	-0.005	99	285133	25.0	29.8	
\$ 96 Terphenyl-d14	244	10.335	10.335	0.000	98	1022429	50.0	34.9	
97 Butyl benzyl phthalate	149	10.859	10.859	0.000	96	499056	50.0	45.2	
99 Carbamazepine	193	10.976	10.982	-0.006	90	450262	50.0	48.3	
100 3,3'-Dichlorobenzidine	252	11.476	11.476	0.000	98	350003	50.0	37.6	
101 Benzo[a]anthracene	228	11.500	11.506	-0.006	96	1208595	50.0	44.2	
* 102 Chrysene-d12	240	11.518	11.512	0.006	98	943761	40.0	40.0	
103 Chrysene	228	11.547	11.547	0.000	99	1106632	50.0	44.9	
104 Bis(2-ethylhexyl) phthalat	149	11.553	11.553	0.000	89	645348	50.0	44.7	
105 Di-n-octyl phthalate	149	12.406	12.406	0.000	97	1037787	50.0	34.9	
106 Benzo[b]fluoranthene	252	12.906	12.906	0.000	96	1346612	50.0	44.5	
107 Benzo[k]fluoranthene	252	12.941	12.941	0.000	96	1253167	50.0	38.6	
108 Benzo[a]pyrene	252	13.347	13.347	0.000	98	1305289	50.0	48.1	
* 109 Perylene-d12	264	13.429	13.423	0.006	98	1148839	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	14.941	14.929	0.012	95	1657020	50.0	71.6	
111 Dibenz(a,h)anthracene	278	14.976	14.964	0.012	99	1563604	50.0	61.5	
112 Benzo[g,h,i]perylene	276	15.359	15.347	0.012	95	1658826	50.0	58.2	
S 119 Total Cresols	1				0			65.9	

QC Flag Legend

Processing Flags

NC - Not Calibrated

s - Failed ISTD Recovery Test

Reagents:

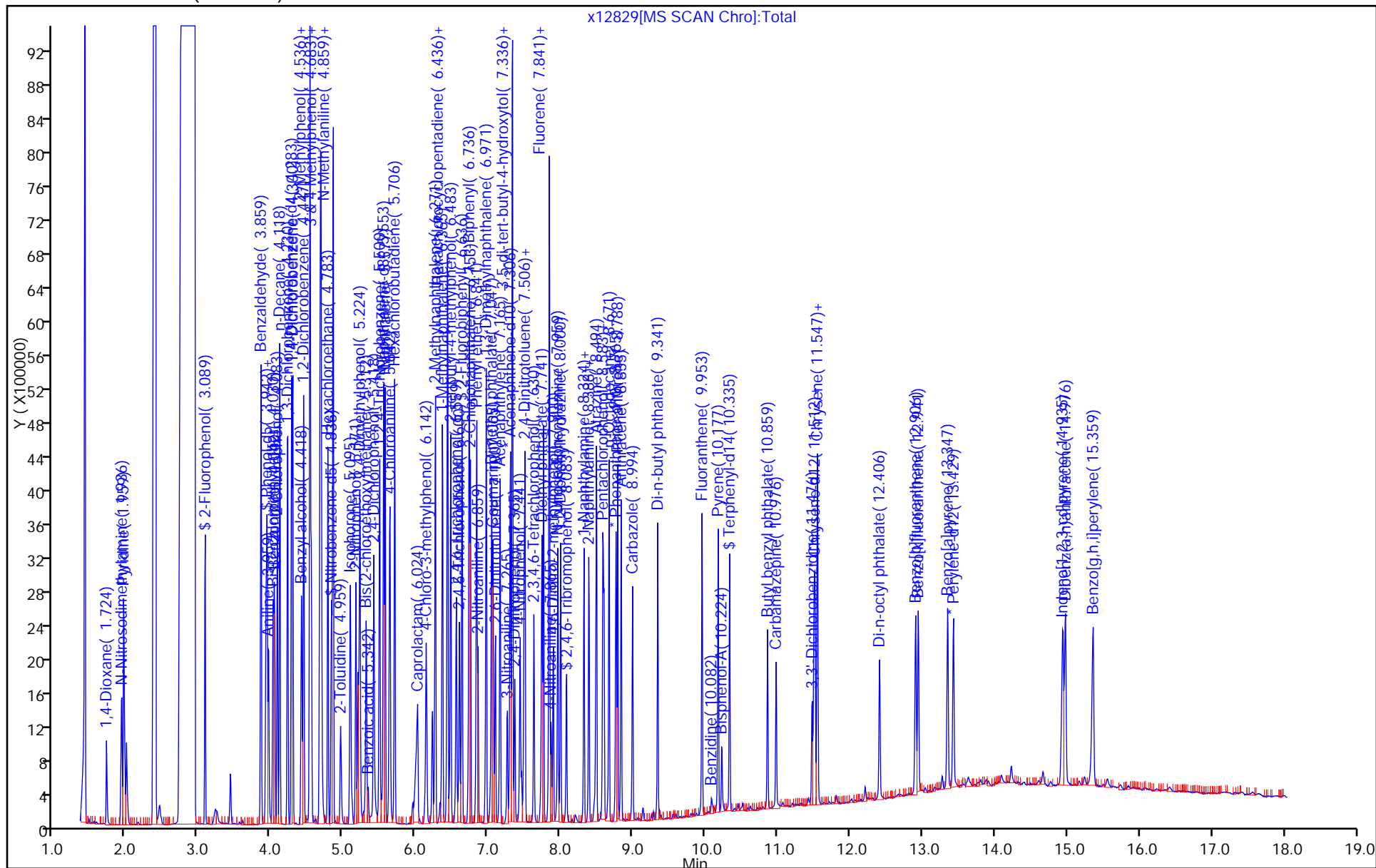
SM_ISTD_00105

Amount Added: 20.00

Units: uL

Run Reagent

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112069-1</u>
SDG No.: _____	
Client Sample ID: <u>A3 MSD</u>	Lab Sample ID: <u>460-112069-1 MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x12830.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>04/13/2016 12:10</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/14/2016 01:50</u>
Sample wt/vol: <u>15.0109(g)</u>	Date Analyzed: <u>04/14/2016 12:30</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: <u>9.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>362392</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
92-52-4	1,1'-Biphenyl	2920		370	31
95-94-3	1,2,4,5-Tetrachlorobenzene	2800		370	27
108-60-1	2,2'-oxybis[1-chloropropane]	1860		370	15
58-90-2	2,3,4,6-Tetrachlorophenol	2550		370	34
95-95-4	2,4,5-Trichlorophenol	2360		370	36
88-06-2	2,4,6-Trichlorophenol	2770		150	10
120-83-2	2,4-Dichlorophenol	2380		150	8.6
105-67-9	2,4-Dimethylphenol	2460		370	81
51-28-5	2,4-Dinitrophenol	5120		290	280
121-14-2	2,4-Dinitrotoluene	3250		74	15
606-20-2	2,6-Dinitrotoluene	3180		74	20
91-58-7	2-Chloronaphthalene	2870		370	8.3
95-57-8	2-Chlorophenol	2260		370	9.3
91-57-6	2-Methylnaphthalene	2580		370	8.1
95-48-7	2-Methylphenol	2160		370	16
88-74-4	2-Nitroaniline	2880		370	12
88-75-5	2-Nitrophenol	2860		370	12
91-94-1	3,3'-Dichlorobenzidine	2800		150	41
99-09-2	3-Nitroaniline	2370		370	11
534-52-1	4,6-Dinitro-2-methylphenol	5770		290	98
101-55-3	4-Bromophenyl phenyl ether	3020		370	12
59-50-7	4-Chloro-3-methylphenol	2370		370	16
106-47-8	4-Chloroaniline	1560		370	9.4
7005-72-3	4-Chlorophenyl phenyl ether	2820		370	11
106-44-5	4-Methylphenol	2460		370	10
100-01-6	4-Nitroaniline	2920		370	14
100-02-7	4-Nitrophenol	5610		740	180
83-32-9	Acenaphthene	2710		370	8.9
208-96-8	Acenaphthylene	2860		370	9.4
98-86-2	Acetophenone	2420		370	8.0
120-12-7	Anthracene	2980		370	35
1912-24-9	Atrazine	7390		150	16
100-52-7	Benzaldehyde	2930		370	28
56-55-3	Benzo[a]anthracene	3340		37	31

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-112069-1</u>
SDG No.: _____	
Client Sample ID: <u>A3 MSD</u>	Lab Sample ID: <u>460-112069-1 MSD</u>
Matrix: <u>Solid</u>	Lab File ID: <u>x12830.D</u>
Analysis Method: <u>8270D</u>	Date Collected: <u>04/13/2016 12:10</u>
Extract. Method: <u>3546</u>	Date Extracted: <u>04/14/2016 01:50</u>
Sample wt/vol: <u>15.0109(g)</u>	Date Analyzed: <u>04/14/2016 12:30</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: <u>9.9</u>	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>362392</u>	Units: <u>ug/Kg</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
50-32-8	Benzo[a]pyrene	3700		37	11
205-99-2	Benzo[b]fluoranthene	3320		37	14
191-24-2	Benzo[g,h,i]perylene	4070		370	21
207-08-9	Benzo[k]fluoranthene	3000		37	16
111-91-1	Bis(2-chloroethoxy)methane	2580		370	11
111-44-4	Bis(2-chloroethyl)ether	2090		37	8.6
117-81-7	Bis(2-ethylhexyl) phthalate	3130		370	14
85-68-7	Butyl benzyl phthalate	3130		370	11
105-60-2	Caprolactam	654		370	26
86-74-8	Carbazole	2980		370	9.1
218-01-9	Chrysene	3350		370	10
53-70-3	Dibenz(a,h)anthracene	4410		37	19
132-64-9	Dibenzofuran	2790		370	11
84-66-2	Diethyl phthalate	3440		370	10
131-11-3	Dimethyl phthalate	3350		370	11
84-74-2	Di-n-butyl phthalate	3500		370	11
117-84-0	Di-n-octyl phthalate	2370		370	19
206-44-0	Fluoranthene	3520		370	11
86-73-7	Fluorene	2810		370	8.0
118-74-1	Hexachlorobenzene	2700		37	15
87-68-3	Hexachlorobutadiene	2740		74	10
77-47-4	Hexachlorocyclopentadiene	2530		370	23
67-72-1	Hexachloroethane	2230		37	13
193-39-5	Indeno[1,2,3-cd]pyrene	4990		37	24
78-59-1	Isophorone	2510		150	7.9
91-20-3	Naphthalene	2750		370	9.3
98-95-3	Nitrobenzene	2590		37	12
621-64-7	N-Nitrosodi-n-propylamine	2280		37	12
86-30-6	N-Nitrosodiphenylamine	3200		370	33
87-86-5	Pentachlorophenol	5430		290	44
85-01-8	Phenanthrene	3360		370	9.8
108-95-2	Phenol	2130		370	12
129-00-0	Pyrene	2910		370	17

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-112069-1
SDG No.: _____
Client Sample ID: A3 MSD Lab Sample ID: 460-112069-1 MSD
Matrix: Solid Lab File ID: x12830.D
Analysis Method: 8270D Date Collected: 04/13/2016 12:10
Extract. Method: 3546 Date Extracted: 04/14/2016 01:50
Sample wt/vol: 15.0109(g) Date Analyzed: 04/14/2016 12:30
Con. Extract Vol.: 1(mL) Dilution Factor: 1
Injection Volume: 1(uL) Level: (low/med) Low
% Moisture: 9.9 GPC Cleanup: (Y/N) N
Analysis Batch No.: 362392 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
118-79-6	2,4,6-Tribromophenol (Surr)	59		10-95
321-60-8	2-Fluorobiphenyl	75		27-84
367-12-4	2-Fluorophenol (Surr)	54		21-84
4165-60-0	Nitrobenzene-d5 (Surr)	65		28-92
4165-62-2	Phenol-d5 (Surr)	51		22-88
1718-51-0	Terphenyl-d14 (Surr)	66		16-114

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\12830.D

Lims ID: 460-112069-A-1-B MSD

Client ID:

Sample Type: MSD

Inject. Date: 14-Apr-2016 12:30:30

ALS Bottle#:

17

Worklist Smp#:

17

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Sample Info: 460-0039822-017

Operator ID:

Instrument ID:

CBNAMS5

Method: \\ChromNA\Edison\ChromData\CBNAMS5\20160413-39822.b\8270_5R.m

Limit Group: SV 8270D ICAL

Last Update: 14-Apr-2016 17:43:29

Calib Date:

11-Apr-2016 19:51:30

Integrator: RTE

ID Type:

Deconvolution ID

Quant Method: Internal Standard

Quant By:

Initial Calibration

Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS5\20160411-39723.b\12707.D

Column 1 : Rtxi-5Sil MS (0.25 mm)

Det: MS SCAN

Process Host: XAWRK033

First Level Reviewer: zhaoc

Date:

14-Apr-2016 14:33:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.730	1.624	0.106	95	310483	50.0	29.6	
2 N-Nitrosodimethylamine	74	1.936	1.859	0.077	61	510119	50.0	35.1	
3 Pyridine	79	1.965	1.883	0.082	82	873563	50.0	34.9	
\$ 4 2-Fluorophenol	112	3.101	2.989	0.112	93	800100	50.0	26.8	
5 Benzaldehyde	77	3.865	3.830	0.035	87	905549	100.0	39.6	
\$ 6 Phenol-d5	99	3.930	3.924	0.006	88	873603	50.0	25.7	
7 Phenol	94	3.948	3.942	0.006	98	930768	50.0	28.8	
8 Aniline	93	3.965	3.953	0.012	97	835530	50.0	21.3	
9 Bis(2-chloroethyl)ether	93	4.030	4.018	0.012	98	731138	50.0	28.2	
10 Benzonitrile	103	4.048	4.048	0.000	66	1672072	NC	NC	
11 2-Chlorophenol	128	4.089	4.071	0.018	94	853504	50.0	30.5	
12 n-Decane	43	4.118	4.124	-0.006	89	984307	50.0	27.7	
13 1,3-Dichlorobenzene	146	4.230	4.224	0.006	96	1211295	50.0	34.2	
* 14 1,4-Dichlorobenzene-d4	152	4.283	4.265	0.018	96	821941	40.0	40.0	
15 1,4-Dichlorobenzene	146	4.300	4.295	0.005	94	1215094	50.0	34.9	
16 Benzyl alcohol	108	4.418	4.424	-0.006	92	579257	50.0	33.4	
17 1,2-Dichlorobenzene	146	4.453	4.448	0.005	96	1109313	50.0	33.5	
18 2-Methylphenol	108	4.536	4.536	0.000	86	712780	50.0	29.2	
19 2,2'-oxybis[1-chloropropan	45	4.553	4.559	-0.006	84	991932	50.0	25.2	
21 Acetophenone	105	4.683	4.695	-0.012	95	980389	50.0	32.8	
22 N-Nitrosodi-n-propylamine	70	4.689	4.700	-0.011	95	529947	50.0	30.9	
23 3 & 4 Methylphenol	108	4.695	4.706	-0.011	90	797700	50.0	33.3	
24 4-Methylphenol	108	4.695	4.706	-0.011	86	797700	50.0	33.3	
20 N-Methylaniline	106	4.800	4.783	0.017	1	412	NC	NC	
25 Hexachloroethane	117	4.783	4.783	0.000	85	378179	50.0	30.1	
\$ 26 Nitrobenzene-d5	82	4.836	4.842	-0.006	94	859775	50.0	32.3	
28 Nitrobenzene	77	4.853	4.865	-0.012	88	1183250	50.0	35.1	
27 n,n'-Dimethylaniline	120	4.859	4.865	-0.006	87	1456377	50.0	34.4	
29 2-Toluidine	107	4.965	4.968	-0.003	35	8113		NC	
31 Isophorone	82	5.095	5.112	-0.017	95	1398061	50.0	34.0	
32 2-Nitrophenol	139	5.171	5.177	-0.006	85	491445	50.0	38.7	
33 2,4-Dimethylphenol	122	5.230	5.230	0.000	91	697305	50.0	33.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
34 Bis(2-chloroethoxy)methane	93	5.312	5.324	-0.012	99	766454	50.0	34.9	
35 Benzoic acid	122	5.336	5.377	-0.041	95	198675	50.0	22.5	
36 2,4-Dichlorophenol	162	5.418	5.424	-0.006	94	698163	50.0	32.2	
37 1,2,4-Trichlorobenzene	180	5.500	5.500	0.000	95	932021	50.0	35.2	
* 38 Naphthalene-d8	136	5.553	5.547	0.006	99	2531790	40.0	40.0	
39 Naphthalene	128	5.577	5.583	-0.006	100	2482208	50.0	37.2	
40 4-Chloroaniline	127	5.630	5.642	-0.012	97	539002	50.0	21.1	
41 Hexachlorobutadiene	225	5.706	5.712	-0.006	96	667960	50.0	37.1	
42 Caprolactam	113	5.959	5.965	-0.006	87	43041	100.0	8.85	
43 4-Chloro-3-methylphenol	107	6.142	6.130	0.012	95	547658	50.0	32.1	
44 2-Methylnaphthalene	142	6.271	6.271	0.000	84	1608993	50.0	34.9	
45 1-Methylnaphthalene	142	6.365	6.371	-0.006	93	1474451	50.0	37.2	
46 Hexachlorocyclopentadiene	237	6.436	6.436	0.000	97	582906	50.0	34.2	
47 1,2,4,5-Tetrachlorobenzene	216	6.442	6.447	-0.005	98	859905	50.0	37.9	
48 2-tertbutyl-4-methylphenol	149	6.483	6.483	0.000	91	1086264	50.0	35.9	
49 2,4,6-Trichlorophenol	196	6.559	6.559	0.000	91	471235	50.0	37.5	
50 2,4,5-Trichlorophenol	196	6.600	6.594	0.006	96	406969	50.0	31.9	
\$ 51 2-Fluorobiphenyl	172	6.636	6.641	-0.005	98	1846848	50.0	37.3	
52 1,1'-Biphenyl	154	6.736	6.741	-0.005	94	1926641	50.0	39.5	
53 2-Chloronaphthalene	162	6.753	6.759	-0.006	98	1427404	50.0	38.8	
54 Phenyl ether	170	6.841	6.841	0.000	84	1109221	50.0	41.7	
56 2-Nitroaniline	65	6.859	6.865	-0.006	94	436068	50.0	39.0	
57 1,3-Dimethylnaphthalene	156	6.971	6.977	-0.006	94	1251989	50.0	41.9	
58 Dimethyl phthalate	163	7.047	7.059	-0.012	99	1543497	50.0	45.4	
59 Coumarin	146	7.059	7.071	-0.012	76	462399	50.0	41.5	
60 2,6-Dinitrotoluene	165	7.100	7.106	-0.006	94	327348	50.0	43.0	
61 Acenaphthylene	152	7.165	7.171	-0.006	97	1970459	50.0	38.6	
64 3-Nitroaniline	138	7.265	7.271	-0.006	95	244660	50.0	32.1	
* 65 Acenaphthene-d10	164	7.306	7.300	0.006	90	1166681	40.0	40.0	
66 3,5-di-tert-butyl-4-hydrox	205	7.330	7.336	-0.006	96	1757348	50.0	41.5	
67 Acenaphthene	154	7.336	7.341	-0.005	92	1240675	50.0	36.6	
68 2,4-Dinitrophenol	184	7.365	7.377	-0.012	95	236840	100.0	69.3	
69 4-Nitrophenol	65	7.441	7.447	-0.006	85	341456	100.0	75.8	
70 2,4-Dinitrotoluene	165	7.494	7.506	-0.012	95	375734	50.0	44.0	
71 Dibenzofuran	168	7.506	7.512	-0.006	95	1825717	50.0	37.7	
72 2,3,4,6-Tetrachlorophenol	232	7.630	7.636	-0.006	96	339389	50.0	34.5	
73 Diethyl phthalate	149	7.741	7.747	-0.006	98	1369333	50.0	46.5	
74 4-Chlorophenyl phenyl ethe	204	7.841	7.847	-0.006	82	760619	50.0	38.2	
75 Fluorene	166	7.841	7.847	-0.006	94	1324634	50.0	38.0	
76 4-Nitroaniline	138	7.865	7.883	-0.018	90	238535	50.0	39.4	
77 4,6-Dinitro-2-methylphenol	198	7.900	7.912	-0.012	89	335083	100.0	78.0	
78 N-Nitrosodiphenylamine	169	7.959	7.971	-0.012	66	970669	50.0	43.3	
79 1,2-Diphenylhydrazine	77	8.000	8.006	-0.006	92	1029914	50.0	40.9	
\$ 80 2,4,6-Tribromophenol	330	8.083	8.088	-0.005	90	284690	50.0	29.6	
81 4-Bromophenyl phenyl ether	248	8.324	8.330	-0.006	92	459541	50.0	40.9	
63 2-Naphthylamine	143	8.453	8.385	0.068	1	1155		NC	
62 1-Naphthylamine	143	8.324	8.385	-0.061	50	37271		NC	
83 Hexachlorobenzene	284	8.388	8.394	-0.006	94	490942	50.0	36.5	
84 Atrazine	200	8.494	8.494	0.000	94	720584	100.0	100.0	
85 Pentachlorophenol	266	8.583	8.588	-0.005	95	462790	100.0	73.5	
86 Pentachloronitrobenzene	237	8.600	8.600	0.000	90	210176	50.0	49.4	
87 n-Octadecane	57	8.671	8.671	0.000	95	614024	50.0	34.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 88 Phenanthrene-d10	188	8.765	8.765	0.000	97	1411869	40.0	40.0	s
89 Phenanthrene	178	8.788	8.794	-0.006	96	1797150	50.0	45.5	
90 Anthracene	178	8.835	8.841	-0.006	98	1605281	50.0	40.3	
91 Carbazole	167	8.994	9.000	-0.006	96	1184330	50.0	40.3	
92 Di-n-butyl phthalate	149	9.341	9.341	0.000	100	1613417	50.0	47.3	
93 Fluoranthene	202	9.953	9.959	-0.006	98	1630842	50.0	47.6	
94 Benzidine	184	10.082	10.088	-0.006	98	74518	50.0	5.88	
95 Pyrene	202	10.177	10.182	-0.005	98	1535191	50.0	39.3	
82 Bisphenol-A	213	10.230	10.229	0.001	99	293780	25.0	28.8	
\$ 96 Terphenyl-d14	244	10.335	10.335	0.000	98	1038696	50.0	33.1	
97 Butyl benzyl phthalate	149	10.859	10.859	0.000	95	502300	50.0	42.4	
99 Carbamazepine	193	10.977	10.982	-0.005	89	467214	50.0	46.8	
100 3,3'-Dichlorobenzidine	252	11.476	11.476	0.000	97	379089	50.0	37.9	
101 Benzo[a]anthracene	228	11.506	11.506	0.000	96	1323755	50.0	45.1	
* 102 Chrysene-d12	240	11.518	11.512	0.006	97	1012871	40.0	40.0	
103 Chrysene	228	11.547	11.547	0.000	100	1198239	50.0	45.3	
104 Bis(2-ethylhexyl) phthalat	149	11.553	11.553	0.000	88	657119	50.0	42.4	
105 Di-n-octyl phthalate	149	12.406	12.406	0.000	97	1083805	50.0	32.1	
106 Benzo[b]fluoranthene	252	12.906	12.906	0.000	97	1541321	50.0	45.0	
107 Benzo[k]fluoranthene	252	12.947	12.941	0.006	97	1496448	50.0	40.6	
108 Benzo[a]pyrene	252	13.353	13.347	0.006	98	1539698	50.0	50.0	
* 109 Perylene-d12	264	13.429	13.423	0.006	98	1302609	40.0	40.0	
110 Indeno[1,2,3-cd]pyrene	276	14.941	14.929	0.012	96	1771820	50.0	67.5	
111 Dibenz(a,h)anthracene	278	14.976	14.964	0.012	99	1722856	50.0	59.7	
112 Benzo[g,h,i]perylene	276	15.364	15.347	0.017	95	1779899	50.0	55.1	
S 119 Total Cresols	1				0			62.4	
126 4,4'-DDD	235	7.583	7.516	0.067	1	109		NR	7
127 4,4'-DDT	235	7.783	7.840	-0.057	1	32		NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

7 - Failed Limit of Detection

s - Failed ISTD Recovery Test

Reagents:

SM_ISTD_00105

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS5\\20160413-39822.b\\x12830.D

Injection Date: 14-Apr-2016 12:30:30

Instrument ID: CBNAMS5

Operator ID:

Lims ID: 460-112069-A-1-B MSD

Worklist Smp#: 17

Client ID:

Injection Vol: 1.0 ul

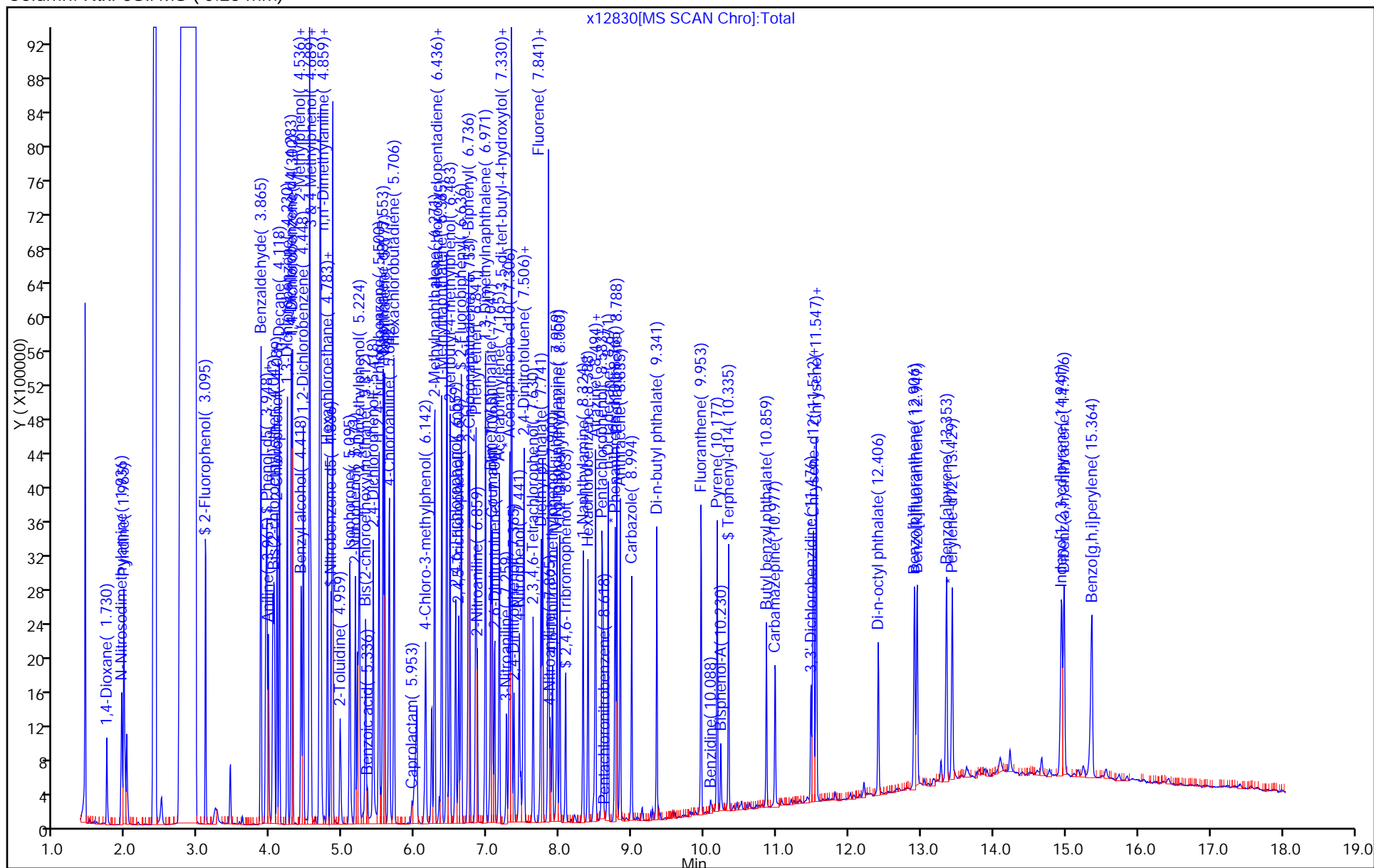
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: 8270_5R

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica EdisonJob No.: 460-112069-1

SDG No.: _____

Instrument ID: CBNAMS5Start Date: 04/11/2016 13:27Analysis Batch Number: 361914End Date: 04/11/2016 22:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-361914/1		04/11/2016 13:27	1	x12691.D	Rtxi-5Sil MS 0.25 (mm)
ICIS 460-361914/2		04/11/2016 13:47	1	x12692.D	Rtxi-5Sil MS 0.25 (mm)
STD120 460-361914/3 IC		04/11/2016 14:11	1	x12693.D	Rtxi-5Sil MS 0.25 (mm)
STD80 460-361914/4 IC		04/11/2016 14:35	1	x12694.D	Rtxi-5Sil MS 0.25 (mm)
STD20 460-361914/5 IC		04/11/2016 15:00	1	x12695.D	Rtxi-5Sil MS 0.25 (mm)
STD10 460-361914/6 IC		04/11/2016 15:24	1	x12696.D	Rtxi-5Sil MS 0.25 (mm)
STD5 460-361914/7 IC		04/11/2016 15:48	1	x12697.D	Rtxi-5Sil MS 0.25 (mm)
STD2 460-361914/8 IC		04/11/2016 16:13	1	x12698.D	Rtxi-5Sil MS 0.25 (mm)
STD1 460-361914/9 IC		04/11/2016 16:37	1	x12699.D	Rtxi-5Sil MS 0.25 (mm)
STD05 460-361914/10 IC		04/11/2016 17:01	1	x12700.D	Rtxi-5Sil MS 0.25 (mm)
STD50 460-361914/11 IC		04/11/2016 17:25	1	x12701.D	Rtxi-5Sil MS 0.25 (mm)
STD120 460-361914/12 IC		04/11/2016 17:49	1	x12702.D	Rtxi-5Sil MS 0.25 (mm)
STD80 460-361914/13 IC		04/11/2016 18:14	1	x12703.D	Rtxi-5Sil MS 0.25 (mm)
STD20 460-361914/14 IC		04/11/2016 18:38	1	x12704.D	Rtxi-5Sil MS 0.25 (mm)
STD10 460-361914/15 IC		04/11/2016 19:03	1	x12705.D	Rtxi-5Sil MS 0.25 (mm)
STD5 460-361914/16 IC		04/11/2016 19:27	1	x12706.D	Rtxi-5Sil MS 0.25 (mm)
STD2 460-361914/17 IC		04/11/2016 19:51	1	x12707.D	Rtxi-5Sil MS 0.25 (mm)
ICV 460-361914/18		04/11/2016 20:16	1	x12708.D	Rtxi-5Sil MS 0.25 (mm)
ICV 460-361914/19		04/11/2016 22:26	1	x12709e.D	Rtxi-5Sil MS 0.25 (mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-112069-1

SDG No.: _____

Instrument ID: CBNAMS5 Start Date: 04/14/2016 05:37Analysis Batch Number: 362392 End Date: 04/14/2016 16:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-362392/1		04/14/2016 05:37	1	x12814e.D	Rtxi-5Sil MS 0.25 (mm)
CCVIS 460-362392/2		04/14/2016 05:53	1	x12815.D	Rtxi-5Sil MS 0.25 (mm)
CCV 460-362392/3		04/14/2016 06:51	1	x12816a.D	Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/14/2016 08:04	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/14/2016 08:28	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/14/2016 08:52	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/14/2016 09:16	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/14/2016 09:40	1		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/14/2016 10:04	1		Rtxi-5Sil MS 0.25 (mm)
MB 460-362437/1-A		04/14/2016 10:29	1	x12825.D	Rtxi-5Sil MS 0.25 (mm)
LCS 460-362437/2-A		04/14/2016 10:53	1	x12826.D	Rtxi-5Sil MS 0.25 (mm)
LCS 460-362437/3-A		04/14/2016 11:17	1	x12827.D	Rtxi-5Sil MS 0.25 (mm)
460-112069-1		04/14/2016 11:41	1	x12828.D	Rtxi-5Sil MS 0.25 (mm)
460-112069-1 MS		04/14/2016 12:05	1	x12829.D	Rtxi-5Sil MS 0.25 (mm)
460-112069-1 MSD		04/14/2016 12:30	1	x12830.D	Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/14/2016 15:33	10		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/14/2016 15:57	10		Rtxi-5Sil MS 0.25 (mm)
ZZZZZ		04/14/2016 16:24	2		Rtxi-5Sil MS 0.25 (mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-112069-1

SDG No.: _____

Batch Number: 362437 Batch Start Date: 04/14/16 01:47 Batch Analyst: Silva, JoseBatch Method: 3546 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	OP_Benzald_sp 00002	OP_BNA SPIK 00020	OP_BNASurroga 00009	
MB 460-362437/1		3546, 8270D		15.0000 g	1 mL			500 uL	
LCS 460-362437/2		3546, 8270D		15.0000 g	1 mL		500 uL	500 uL	
LCS 460-362437/3		3546, 8270D		15.0000 g	1 mL	50 uL		500 uL	
460-112069-A-1 MS	A3	3546, 8270D	T	15.0112 g	1 mL	50 uL	500 uL	500 uL	
460-112069-A-1 MSD	A3	3546, 8270D	T	15.0109 g	1 mL	50 uL	500 uL	500 uL	
460-112069-A-1	A3	3546, 8270D	T	15.0114 g	1 mL			500 uL	

Batch Notes	
Balance ID	28
Batch Comment	BNA SOIL 8270D (uncorrected n evap temp 37 DegreesC) # 222299
Analyst ID - Concentration	JS
Final Concentrator Volume	1 mL
MeCL2 ID	133788
MeCl2 / Acetone ID	127319
Na2SO4 ID	151191 (SILICA SAND LOT#132456)
Person's name who did the prep	Jose
SOP Number	3546
Analyst ID - Spike Analyst	Jose
Analyst ID - Spike Witness Analyst	Jose

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.

8270D

Page 1 of 1

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Edison Job Number: 460-112069-1

SDG No.: _____

Project: DEC Elmont546; Site: E130150

Client Sample ID
A3

Lab Sample ID
460-112069-1

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: A3	Lab Sample ID: 460-112069-1
Lab Name: TestAmerica Edison	Job No.: 460-112069-1
SDG ID.:	
Matrix: Solid	Date Sampled: 04/13/2016 12:10
Reporting Basis: DRY	Date Received: 04/13/2016 16:20
% Solids: 90.1	

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	5750	43.9	22.6	mg/Kg			4	6010C
7440-36-0	Antimony	1.8	4.4	1.7	mg/Kg	J		4	6010C
7440-38-2	Arsenic	2.5	3.3	1.1	mg/Kg	J		4	6010C
7440-39-3	Barium	213	43.9	1.6	mg/Kg			4	6010C
7440-41-7	Beryllium	0.44	0.44	0.37	mg/Kg	U		4	6010C
7440-43-9	Cadmium	0.88	0.88	0.46	mg/Kg	U		4	6010C
7440-70-2	Calcium	1430	1100	65.0	mg/Kg			4	6010C
7440-47-3	Chromium	12.5	2.2	1.1	mg/Kg			4	6010C
7440-48-4	Cobalt	3.6	11.0	1.3	mg/Kg	J		4	6010C
7440-50-8	Copper	94.7	5.5	1.4	mg/Kg			4	6010C
7439-89-6	Iron	12700	33.0	24.8	mg/Kg			4	6010C
7439-92-1	Lead	856	2.2	0.86	mg/Kg			4	6010C
7439-95-4	Magnesium	905	1100	54.8	mg/Kg	J		4	6010C
7439-96-5	Manganese	161	3.3	1.2	mg/Kg			4	6010C
7440-02-0	Nickel	13.9	8.8	1.6	mg/Kg			4	6010C
7440-09-7	Potassium	264	1100	33.3	mg/Kg	J		4	6010C
7782-49-2	Selenium	4.4	4.4	1.5	mg/Kg	U		4	6010C
7440-22-4	Silver	2.2	2.2	0.39	mg/Kg	U		4	6010C
7440-23-5	Sodium	1100	1100	74.4	mg/Kg	U		4	6010C
7440-28-0	Thallium	4.4	4.4	1.9	mg/Kg	U		4	6010C
7440-62-2	Vanadium	15.1	11.0	1.1	mg/Kg			4	6010C
7440-66-6	Zinc	380	6.6	1.6	mg/Kg			4	6010C

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison

Job No.: 460-112069-1

SDG No.: _____

ICV Source: ME_CCv_DUO_00152

Concentration Units: ug/L

CCV Source: ME_CCv_DUO_00152

Analyte	ICV 460-362574/7 04/14/2016 11:56				CCV 460-362574/46 04/14/2016 14:33				CCV 460-362574/59 04/14/2016 15:47			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	122700		125000	98	119700		125000	96	118200		125000	95
Antimony	978.9		1000	98	977.9		1000	98	983.9		1000	98
Arsenic	2440		2500	98	2469		2500	99	2495		2500	100
Barium	10060		10000	101	10150		10000	102	10230		10000	102
Beryllium	992.4		1000	99	971.4		1000	97	963.6		1000	96
Cadmium	1250		1250	100	1253		1250	100	1257		1250	101
Calcium	125400		125000	100	126200		125000	101	125400		125000	100
Chromium	5017		5000	100	5068		5000	101	5083		5000	102
Cobalt	2506		2500	100	2507		2500	100	2515		2500	101
Copper	12350		12500	99	12450		12500	100	12550		12500	100
Iron	100100		100000	100	98550		100000	99	97490		100000	97
Lead	7506		7500	100	7400		7500	99	7373		7500	98
Magnesium	124500		125000	100	122800		125000	98	121000		125000	97
Manganese	5078		5000	102	5094		5000	102	5077		5000	102
Nickel	2520		2500	101	2544		2500	102	2565		2500	103
Potassium	49150		50000	98	48510		50000	97	48430		50000	97
Selenium	2455		2500	98	2483		2500	99	2517		2500	101
Silver	1228		1250	98	1229		1250	98	1223		1250	98
Sodium	123200		125000	99	119300		125000	95	117600		125000	94
Thallium	2545		2500	102	2524		2500	101	2538		2500	102
Vanadium	2498		2500	100	2501		2500	100	2499		2500	100
Zinc	2511		2500	100	2484		2500	99	2466		2500	99

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.: 460-112069-1

SDG No.: _____

ICV Source: ME_CCV_DUO_00152 Concentration Units: ug/L

CCV Source: ME_CCV_DUO_00152

Analyte	CCV 460-362574/127 04/14/2016 20:25				CCV 460-362574/140 04/14/2016 21:16							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	120100		125000	96	119900		125000	96				
Antimony	983.0		1000	98	966.2		1000	97				
Arsenic	2493		2500	100	2410		2500	96				
Barium	10170		10000	102	9924		10000	99				
Beryllium	982.4		1000	98	965.5		1000	97				
Cadmium	1258		1250	101	1230		1250	98				
Calcium	125100		125000	100	123000		125000	98				
Chromium	5099		5000	102	4935		5000	99				
Cobalt	2496		2500	100	2470		2500	99				
Copper	12380		12500	99	12220		12500	98				
Iron	99060		100000	99	97650		100000	98				
Lead	7409		7500	99	7381		7500	98				
Magnesium	121200		125000	97	121300		125000	97				
Manganese	5065		5000	101	4986		5000	100				
Nickel	2546		2500	102	2482		2500	99				
Potassium	48380		50000	97	48210		50000	96				
Selenium	2493		2500	100	2419		2500	97				
Silver	1204		1250	96	1213		1250	97				
Sodium	122000		125000	98	120900		125000	97				
Thallium	2500		2500	100	2492		2500	100				
Vanadium	2493		2500	100	2454		2500	98				
Zinc	2494		2500	100	2464		2500	99				

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.: 460-112069-1

SDG No.: _____

ICV Source: ME_Cal2_BC_00009

Concentration Units: ug/L

CCV Source: ME_Cal2_BC_00009

Analyte	ICVL 460-362574/9 04/14/2016 12:04				CCVL 460-362574/48 04/14/2016 14:41				CCVL 460-362574/61 04/14/2016 15:55			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	206.9		200	103	205.2		200	103	206.2		200	103
Antimony	18.17	J	20.0	91	18.50	J	20.0	93	19.20	J	20.0	96
Arsenic	13.21	J	15.0	88	13.73	J	15.0	92	12.04	J	15.0	80
Barium	211.3		200	106	215.3		200	108	216.3		200	108
Beryllium	2.01		2.00	101	2.00		2.00	100	2.01		2.00	101
Cadmium	4.09		4.00	102	4.20		4.00	105	4.16		4.00	104
Calcium	5109		5000	102	5142		5000	103	5200		5000	104
Chromium	10.52		10.0	105	10.94		10.0	109	11.01		10.0	110
Cobalt	53.46		50.0	107	54.07		50.0	108	53.98		50.0	108
Copper	23.97	J	25.0	96	24.51	J	25.0	98	24.39	J	25.0	98
Iron	155.4		150	104	155.8		150	104	157.4		150	105
Lead	11.37		10.0	114	12.25		10.0	123	11.68		10.0	117
Magnesium	4878	J	5000	98	4845	J	5000	97	4855	J	5000	97
Manganese	15.94		15.0	106	16.16		15.0	108	16.38		15.0	109
Nickel	43.54		40.0	109	44.30		40.0	111	44.70		40.0	112
Potassium	4809	J	5000	96	4802	J	5000	96	4767	J	5000	95
Selenium	19.02	J	20.0	95	21.40		20.0	107	19.51	J	20.0	98
Silver	9.88	J	10.0	99	9.74	J	10.0	97	9.70	J	10.0	97
Sodium	4836	J	5000	97	4759	J	5000	95	4562	J	5000	91
Thallium	22.73		20.0	114	22.28		20.0	111	21.94		20.0	110
Vanadium	51.23		50.0	102	51.48		50.0	103	51.63		50.0	103
Zinc	31.53		30.0	105	31.69		30.0	106	31.70		30.0	106

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Edison Job No.: 460-112069-1

SDG No.: _____

ICV Source: ME_Cal2_BC_00009 Concentration Units: ug/L

CCV Source: ME_Cal2_BC_00009

Analyte	CCVL 460-362574/129 04/14/2016 20:33				CCVL 460-362574/142 04/14/2016 21:24							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	209.8		200	105	204.8		200	102				
Antimony	17.54	J	20.0	88	18.83	J	20.0	94				
Arsenic	14.47	J	15.0	96	14.54	J	15.0	97				
Barium	208.9		200	104	213.0		200	107				
Beryllium	1.98	J	2.00	99	2.04		2.00	102				
Cadmium	4.13		4.00	103	4.19		4.00	105				
Calcium	5029		5000	101	5162		5000	103				
Chromium	10.81		10.0	108	10.80		10.0	108				
Cobalt	52.53		50.0	105	53.81		50.0	108				
Copper	23.99	J	25.0	96	24.29	J	25.0	97				
Iron	151.1		150	101	162.8		150	109				
Lead	11.05		10.0	111	9.58	J	10.0	96				
Magnesium	4799	J	5000	96	4922	J	5000	98				
Manganese	15.90		15.0	106	16.26		15.0	108				
Nickel	42.81		40.0	107	43.93		40.0	110				
Potassium	4696	J	5000	94	4819	J	5000	96				
Selenium	19.24	J	20.0	96	20.54		20.0	103				
Silver	9.79	J	10.0	98	9.44	J	10.0	94				
Sodium	4763	J	5000	95	4803	J	5000	96				
Thallium	22.16		20.0	111	23.48		20.0	117				
Vanadium	50.84		50.0	102	51.78		50.0	104				
Zinc	31.60		30.0	105	32.02		30.0	107				

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.: 460-112069-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	ICB 460-362574/8 04/14/2016 12:00		CCB 460-362574/47 04/14/2016 14:37		CCB 460-362574/60 04/14/2016 15:51		CCB 460-362574/128 04/14/2016 20:29	
		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	5.69	J	25.0	U
Iron	150	150	U	150	U	138.8	J	150	U
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.: 460-112069-1

SDG No.: _____

Concentration Units: ug/L

Analyte	RL	CCB 460-362574/141 04/14/2016 21:20							
		Found	C	Found	C	Found	C	Found	C
Aluminum	200	200	U						
Antimony	20.0	20.0	U						
Arsenic	15.0	15.0	U						
Barium	200	200	U						
Beryllium	2.0	2.0	U						
Cadmium	4.0	4.0	U						
Calcium	5000	5000	U						
Chromium	10.0	10.0	U						
Cobalt	50.0	50.0	U						
Copper	25.0	25.0	U						
Iron	150	150	U						
Lead	10.0	10.0	U						
Magnesium	5000	5000	U						
Manganese	15.0	15.0	U						
Nickel	40.0	40.0	U						
Potassium	5000	5000	U						
Selenium	20.0	20.0	U						
Silver	10.0	10.0	U						
Sodium	5000	5000	U						
Thallium	20.0	20.0	U						
Vanadium	50.0	50.0	U						
Zinc	30.0	30.0	U						

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Edison Job No.: 460-112069-1
 SDG No.: _____
 Concentration Units: mg/Kg Lab Sample ID: MB 460-362460/1-A
 Instrument Code: ICP4 Batch No.: 362574

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.: 460-112069-1
 SDG No.: _____
 Lab Sample ID: ICSA 460-362574/10 Instrument ID: ICP4
 Lab File ID: 362460.asc ICS Source: ME_ICSA_Duo_00068
 Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	500000	488700	98
Antimony		3.21	
Arsenic		-0.105	
Barium		-0.448	
Beryllium		-0.0854	
Cadmium		0.750	
Calcium	500000	495300	99
Chromium		-1.80	
Cobalt		-3.72	
Copper		-4.86	
Iron	200000	191100	96
Lead		3.05	
Magnesium	500000	493100	99
Manganese		3.31	
Nickel		-0.228	
Potassium		-69.4	
Selenium		2.03	
Silver		0.860	
Sodium		-41.0	
Thallium		-0.752	
Vanadium		-21.5	
Zinc		-3.16	
<i>Boron</i>		<i>-8.71</i>	
<i>Molybdenum</i>		<i>-0.689</i>	
<i>Strontium</i>		<i>-1.58</i>	
<i>Tin</i>		<i>3.76</i>	
<i>Titanium</i>		<i>-1.52</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.: 460-112069-1
 SDG No.: _____
 Lab Sample ID: ICSAB 460-362574/11 Instrument ID: ICP4
 Lab File ID: 362460.asc ICS Source: ME_ICSAB_DUO_00084
 Concentration Units: ug/L

Analyte	True	Found	
	Solution AB	Solution AB	Percent Recovery
Aluminum	500000	519200	104
Antimony	100	98.4	98
Arsenic	100	98.8	99
Barium	100	104	104
Beryllium	100	101	101
Cadmium	100	98.2	98
Calcium	500000	529400	106
Chromium	100	102	102
Cobalt	100	94.7	95
Copper	100	105	105
Iron	200000	203200	102
Lead	100	97.1	97
Magnesium	500000	523100	105
Manganese	100	108	108
Nickel	100	97.2	97
Potassium	10000	10350	104
Selenium	100	104	104
Silver	100	109	109
Sodium	10000	10350	104
Thallium	100	96.8	97
Vanadium	100	80.7	81
Zinc	100	93.5	94
<i>Boron</i>	<i>100</i>	<i>91.9</i>	<i>92</i>
<i>Molybdenum</i>	<i>100</i>	<i>97.2</i>	<i>97</i>
<i>Strontium</i>	<i>100</i>	<i>102</i>	<i>102</i>
<i>Tin</i>	<i>100</i>	<i>103</i>	<i>103</i>
<i>Titanium</i>	<i>100</i>	<i>104</i>	<i>104</i>

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

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: A3 MS

Lab ID: 460-112069-1 MS

Lab Name: TestAmerica Edison

Job No.: 460-112069-1

SDG No.: _____

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 90.1

Analyte	SSR C	Sample Result (SR) C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	6098	5750	207	169	75-125	4	6010C
Antimony	38.76	1.8 J	51.8	71	75-125	N	6010C
Arsenic	202.9	2.5 J	207	97	75-125		6010C
Barium	365.0	213	207	73	75-125	N	6010C
Beryllium	5.44	0.44 U	5.18	105	75-125		6010C
Cadmium	5.63	0.88 U	5.18	109	75-125		6010C
Calcium	3357	1430	2070	93	75-125		6010C
Chromium	34.86	12.5	20.7	108	75-125		6010C
Cobalt	57.36	3.6 J	51.8	104	75-125		6010C
Copper	98.83	94.7	25.9	16	75-125	N	6010C
Iron	10600	12700	104	-2057	75-125	4	6010C
Lead	674.5	856	51.8	-350	75-125	4	6010C
Magnesium	2777	905 J	2070	90	75-125		6010C
Manganese	192.4	161	51.8	60	75-125	N	6010C
Nickel	69.18	13.9	51.8	107	75-125		6010C
Potassium	2138	264 J	2070	90	75-125		6010C
Selenium	205.3	4.4 U	207	99	75-125		6010C
Silver	5.06	2.2 U	5.18	98	75-125		6010C
Sodium	1941	1100 U	2070	94	75-125		6010C
Thallium	223.7	4.4 U	207	108	75-125		6010C
Vanadium	67.95	15.1	51.8	102	75-125		6010C
Zinc	365.8	380	51.8	-28	75-125	4	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: A3 PDS

Lab ID: 460-112069-1 PDS

Lab Name: TestAmerica Edison

Job No.: 460-112069-1

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	6061	5750	439	NC	80-120		6010C
Antimony	101.1	1.8 J	110	90	80-120		6010C
Arsenic	411.0	2.5 J	439	93	80-120		6010C
Barium	641.7	213	439	98	80-120		6010C
Beryllium	10.76	0.44 U	11.0	98	80-120		6010C
Cadmium	11.09	0.88 U	11.0	101	80-120		6010C
Calcium	5569	1430	4390	94	80-120		6010C
Chromium	56.61	12.5	43.9	100	80-120		6010C
Cobalt	112.7	3.6 J	110	99	80-120		6010C
Copper	144.2	94.7	54.9	90	80-120		6010C
Iron	12520	12700	220	NC	80-120		6010C
Lead	938.5	856	110	75	80-120	N	6010C
Magnesium	4829	905 J	4390	89	80-120		6010C
Manganese	265.8	161	110	95	80-120		6010C
Nickel	125.3	13.9	110	101	80-120		6010C
Potassium	4009	264 J	4390	85	80-120		6010C
Selenium	415.4	4.4 U	439	95	80-120		6010C
Silver	10.21	2.2 U	11.0	93	80-120		6010C
Sodium	3952	1100 U	4390	90	80-120		6010C
Thallium	450.6	4.4 U	439	103	80-120		6010C
Vanadium	122.1	15.1	110	97	80-120		6010C
Zinc	478.0	380	110	89	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: A3 DU

Lab ID: 460-112069-1 DU

Lab Name: TestAmerica Edison

Job No.: 460-112069-1

SDG No.:

% Solids for Sample: 90.1

% Solids for Duplicate: 90.1

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S) C	Duplicate (D) C	RPD	Q	Method
Aluminum	41.5	5750	5460	5		6010C
Antimony	4.1	1.8 J	1.75 J	0.5		6010C
Arsenic	3.1	2.5 J	2.27 J	8		6010C
Barium	41.5	213	200.1	6		6010C
Beryllium	0.41	0.44 U	0.41 U	NC		6010C
Cadmium	0.83	0.88 U	0.83 U	NC		6010C
Calcium	1040	1430	1332	7		6010C
Chromium	2.1	12.5	11.91	5		6010C
Cobalt	10.4	3.6 J	3.42 J	6		6010C
Copper	5.2	94.7	89.25	6		6010C
Iron	31.1	12700	11990	6		6010C
Lead	2.1	856	805.0	6		6010C
Magnesium	1040	905 J	847.1 J	7		6010C
Manganese	3.1	161	151.1	6		6010C
Nickel	8.3	13.9	13.12	6		6010C
Potassium	1040	264 J	250.7 J	5		6010C
Selenium	4.1	4.4 U	1.69 J	NC		6010C
Silver	2.1	2.2 U	2.1 U	NC		6010C
Sodium	1040	1100 U	1040 U	NC		6010C
Thallium	4.1	4.4 U	4.1 U	NC		6010C
Vanadium	10.4	15.1	14.24	6		6010C
Zinc	6.2	380	357.3	6		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 460-362460/2-A

Lab Name: TestAmerica Edison

Job No.: 460-112069-1

Sample Matrix: Solid

LCS Source: ME_LCSS_91_00001

Analyte	Solid (mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	8080	6573		81.3	51.1	148.5		6010C
Antimony	123	77.96		63.4	1.0	200.0		6010C
Arsenic	145	132.3		91.2	79.3	121.4		6010C
Barium	209	203.7		97.5	83.3	117.2		6010C
Beryllium	97.3	91.39		93.9	82.6	117.2		6010C
Cadmium	87.6	86.86		99.2	82.6	117.6		6010C
Calcium	5690	5396		94.8	81.0	118.8		6010C
Chromium	143	142.7		99.8	79.7	119.6		6010C
Cobalt	154	162.5		105.5	83.8	115.6		6010C
Copper	173	164.0		94.8	81.5	117.9		6010C
Iron	15000	13250		88.4	46.8	154.0		6010C
Lead	146	143.1		98.0	81.5	118.5		6010C
Magnesium	2640	2269		85.9	76.5	123.5		6010C
Manganese	309	301.8		97.7	81.6	118.8		6010C
Nickel	129	140.4		108.9	82.9	117.1		6010C
Potassium	2400	2065		86.0	71.7	128.3		6010C
Selenium	178	169.2		95.1	78.7	121.3		6010C
Silver	31.3	27.90		89.1	75.1	124.9		6010C
Sodium	869	772.7	J	88.9	72.7	126.6		6010C
Thallium	141	149.2		105.8	79.4	121.3		6010C
Vanadium	115	107.6		93.6	77.6	122.6		6010C
Zinc	194	190.2		98.0	82.0	118.0		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: 460-112069-1

SDG No:

Lab Name: TestAmerica Edison

Job No: 460-112069-1

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I) C		Serial Dilution Result (S) C		% Difference	Q	Method
Aluminum	5750		5594		2.7		6010C
Antimony	1.8	J	22.0	U	NC		6010C
Arsenic	2.5	J	16.5	U	NC		6010C
Barium	213		213.7	J	NC		6010C
Beryllium	0.44	U	2.2	U	NC		6010C
Cadmium	0.88	U	4.4	U	NC		6010C
Calcium	1430		1405	J	NC		6010C
Chromium	12.5		12.53		NC		6010C
Cobalt	3.6	J	54.9	U	NC		6010C
Copper	94.7		92.81		NC		6010C
Iron	12700		12680		0.43		6010C
Lead	856		857.8		0.21		6010C
Magnesium	905	J	898.8	J	NC		6010C
Manganese	161		161.7		NC		6010C
Nickel	13.9		13.64	J	NC		6010C
Potassium	264	J	270.4	J	NC		6010C
Selenium	4.4	U	22.0	U	NC		6010C
Silver	2.2	U	11.0	U	NC		6010C
Sodium	1100	U	5490	U	NC		6010C
Thallium	4.4	U	22.0	U	NC		6010C
Vanadium	15.1		14.70	J	NC		6010C
Zinc	380		382.7		0.58		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: 460-112069-1

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: 460-112069-1
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.: 460-112069-1

SDG No.: _____

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 460-362460/1-A	04/14/2016 07:27	362460	1.00		50
LCSSRM 460-362460/2-A	04/14/2016 07:27	362460	1.02		50
460-112069-1	04/14/2016 07:27	362460	1.01		50
460-112069-1 DU	04/14/2016 07:27	362460	1.07		50
460-112069-1 MS	04/14/2016 07:27	362460	1.07		50

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112069-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 04/14/2016 11:32 End Date: 04/14/2016 22:35

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 460-362574/1	1		11:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			11:36																				
ZZZZZZ			11:40																				
ZZZZZZ			11:44																				
ZZZZZZ			11:48																				
ZZZZZZ			11:52																				
ICV 460-362574/7	1		11:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 460-362574/8	1		12:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICVL 460-362574/9	1		12:04	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 460-362574/10	1		12:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 460-362574/11	1		12:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			12:16																				
ZZZZZZ			12:20																				
ZZZZZZ			12:25																				
ZZZZZZ			12:29																				
ZZZZZZ			12:33																				
ZZZZZZ			12:37																				
ZZZZZZ			12:41																				
ZZZZZZ			12:44																				
CCV 460-362574/20			12:49																				
CCB 460-362574/21			12:52																				
CCVL 460-362574/22			12:56																				
ZZZZZZ			13:00																				
ZZZZZZ			13:05																				
ZZZZZZ			13:08																				
ZZZZZZ			13:12																				
ZZZZZZ			13:16																				
ZZZZZZ			13:20																				
ZZZZZZ			13:24																				
ZZZZZZ			13:28																				
ZZZZZZ			13:32																				
ZZZZZZ			13:36																				
CCV 460-362574/33			13:40																				
CCB 460-362574/34			13:44																				
CCVL 460-362574/35			13:48																				
ZZZZZZ			13:52																				
ZZZZZZ			13:56																				
ZZZZZZ			14:00																				
ZZZZZZ			14:04																				
ZZZZZZ			14:08																				
ZZZZZZ			14:12																				
ZZZZZZ			14:16																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112069-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 04/14/2016 11:32 End Date: 04/14/2016 22:35

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			14:21																				
ZZZZZZZ			14:25																				
ZZZZZZZ			14:29																				
CCV 460-362574/46	1		14:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 460-362574/47	1		14:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCVL 460-362574/48	1		14:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZZ			15:08																				
MB 460-362460/1-A	2	T	15:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZZ			15:16																				
460-112069-1 DU	4	T	15:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
460-112069-1	4	T	15:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
460-112069-1 SD	20	T	15:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
460-112069-1 MS	4	T	15:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
460-112069-1 PDS	4	T	15:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZZ			15:39																				
ZZZZZZZ			15:43																				
CCV 460-362574/59	1		15:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCB 460-362574/60	1		15:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
CCVL 460-362574/61	1		15:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
ZZZZZZZ			15:59																				
ZZZZZZZ			16:03																				
ZZZZZZZ			16:07																				
ZZZZZZZ			16:10																				
ZZZZZZZ			16:14																				
ZZZZZZZ			16:18																				
ZZZZZZZ			16:23																				
ZZZZZZZ			16:27																				
ZZZZZZZ			16:31																				
ZZZZZZZ			16:35																				
CCV 460-362574/72			16:40																				
CCB 460-362574/73			16:44																				
CCVL 460-362574/74			16:48																				
ZZZZZZZ			16:52																				
ZZZZZZZ			16:56																				
ZZZZZZZ			17:00																				
ZZZZZZZ			17:04																				
ZZZZZZZ			17:08																				
ZZZZZZZ			17:12																				
ZZZZZZZ			17:16																				
ZZZZZZZ			17:20																				
ZZZZZZZ			17:24																				
ZZZZZZZ			17:29																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112069-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 04/14/2016 11:32 End Date: 04/14/2016 22:35

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 460-362574/85			17:33																				
CCB 460-362574/86			17:37																				
CCVL 460-362574/87			17:41																				
ZZZZZZ			17:45																				
ZZZZZZ			17:49																				
ZZZZZZ			17:53																				
ZZZZZZ			17:57																				
ZZZZZZ			18:01																				
ZZZZZZ			18:05																				
ZZZZZZ			18:10																				
ZZZZZZ			18:13																				
ZZZZZZ			18:17																				
ZZZZZZ			18:21																				
CCV 460-362574/98			18:26																				
CCB 460-362574/99			18:29																				
CCVL 460-362574/100			18:34																				
ZZZZZZ			18:38																				
ZZZZZZ			18:42																				
ZZZZZZ			18:45																				
ZZZZZZ			18:49																				
ZZZZZZ			18:54																				
ZZZZZZ			18:58																				
ZZZZZZ			19:02																				
ZZZZZZ			19:06																				
ZZZZZZ			19:10																				
ZZZZZZ			19:14																				
CCV 460-362574/111			19:18																				
CCB 460-362574/112			19:22																				
CCVL 460-362574/113			19:26																				
ZZZZZZ			19:30																				
ZZZZZZ			19:34																				
ZZZZZZ			19:38																				
ZZZZZZ			19:42																				
ZZZZZZ			19:46																				
ZZZZZZ			19:50																				
ZZZZZZ			19:54																				
ZZZZZZ			19:58																				
ZZZZZZ			20:02																				
ZZZZZZ			20:06																				
CCV 460-362574/124			20:10																				
CCB 460-362574/125			20:14																				
CCVL 460-362574/126			20:19																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112069-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 04/14/2016 11:32 End Date: 04/14/2016 22:35

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 460-362574/127	1		20:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 460-362574/128	1		20:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 460-362574/129	1		20:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			20:37																				
LCSSRM 460-362460/2-A	4	T	20:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			20:45																				
ZZZZZZ			20:49																				
ZZZZZZ			20:52																				
ZZZZZZ			20:56																				
ZZZZZZ			21:00																				
ZZZZZZ			21:04																				
ZZZZZZ			21:08																				
ZZZZZZ			21:12																				
CCV 460-362574/140	1		21:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 460-362574/141	1		21:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCVL 460-362574/142	1		21:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			21:28																				
ZZZZZZ			21:32																				
ZZZZZZ			21:36																				
ZZZZZZ			21:40																				
ZZZZZZ			21:44																				
ZZZZZZ			21:48																				
ZZZZZZ			21:52																				
ZZZZZZ			21:56																				
ZZZZZZ			21:59																				
ZZZZZZ			22:04																				
CCV 460-362574/153			22:08																				
CCB 460-362574/154			22:11																				
CCVL 460-362574/155			22:15																				
ZZZZZZ			22:19																				
ZZZZZZ			22:24																				
CCV 460-362574/158			22:28																				
CCB 460-362574/159			22:31																				
CCVL 460-362574/160			22:35																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112069-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 04/14/2016 11:32 End Date: 04/14/2016 22:35

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				V	Z n																
ICIS 460-362574/1	1		11:32	X	X																
ZZZZZZ			11:36																		
ZZZZZZ			11:40																		
ZZZZZZ			11:44																		
ZZZZZZ			11:48																		
ZZZZZZ			11:52																		
ICV 460-362574/7	1		11:56	X	X																
ICB 460-362574/8	1		12:00	X	X																
ICVL 460-362574/9	1		12:04	X	X																
ICSA 460-362574/10	1		12:08	X	X																
ICSAB 460-362574/11	1		12:12	X	X																
ZZZZZZ			12:16																		
ZZZZZZ			12:20																		
ZZZZZZ			12:25																		
ZZZZZZ			12:29																		
ZZZZZZ			12:33																		
ZZZZZZ			12:37																		
ZZZZZZ			12:41																		
ZZZZZZ			12:44																		
CCV 460-362574/20			12:49																		
CCB 460-362574/21			12:52																		
CCVL 460-362574/22			12:56																		
ZZZZZZ			13:00																		
ZZZZZZ			13:05																		
ZZZZZZ			13:08																		
ZZZZZZ			13:12																		
ZZZZZZ			13:16																		
ZZZZZZ			13:20																		
ZZZZZZ			13:24																		
ZZZZZZ			13:28																		
ZZZZZZ			13:32																		
ZZZZZZ			13:36																		
CCV 460-362574/33			13:40																		
CCB 460-362574/34			13:44																		
CCVL 460-362574/35			13:48																		
ZZZZZZ			13:52																		
ZZZZZZ			13:56																		
ZZZZZZ			14:00																		
ZZZZZZ			14:04																		
ZZZZZZ			14:08																		
ZZZZZZ			14:12																		
ZZZZZZ			14:16																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112069-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 04/14/2016 11:32 End Date: 04/14/2016 22:35

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				V	Z n																
ZZZZZZ			14:21																		
ZZZZZZ			14:25																		
ZZZZZZ			14:29																		
CCV 460-362574/46	1		14:33	X	X																
CCB 460-362574/47	1		14:37	X	X																
CCVL 460-362574/48	1		14:41	X	X																
ZZZZZZ			15:08																		
MB 460-362460/1-A	2	T	15:12	X	X																
ZZZZZZ			15:16																		
460-112069-1 DU	4	T	15:20	X	X																
460-112069-1	4	T	15:24	X	X																
460-112069-1 SD	20	T	15:27	X	X																
460-112069-1 MS	4	T	15:31	X	X																
460-112069-1 PDS	4	T	15:35	X	X																
ZZZZZZ			15:39																		
ZZZZZZ			15:43																		
CCV 460-362574/59	1		15:47	X	X																
CCB 460-362574/60	1		15:51	X	X																
CCVL 460-362574/61	1		15:55	X	X																
ZZZZZZ			15:59																		
ZZZZZZ			16:03																		
ZZZZZZ			16:07																		
ZZZZZZ			16:10																		
ZZZZZZ			16:14																		
ZZZZZZ			16:18																		
ZZZZZZ			16:23																		
ZZZZZZ			16:27																		
ZZZZZZ			16:31																		
ZZZZZZ			16:35																		
CCV 460-362574/72			16:40																		
CCB 460-362574/73			16:44																		
CCVL 460-362574/74			16:48																		
ZZZZZZ			16:52																		
ZZZZZZ			16:56																		
ZZZZZZ			17:00																		
ZZZZZZ			17:04																		
ZZZZZZ			17:08																		
ZZZZZZ			17:12																		
ZZZZZZ			17:16																		
ZZZZZZ			17:20																		
ZZZZZZ			17:24																		
ZZZZZZ			17:29																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112069-1

SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 04/14/2016 11:32 End Date: 04/14/2016 22:35

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				V	Z n																
CCV 460-362574/85			17:33																		
CCB 460-362574/86			17:37																		
CCVL 460-362574/87			17:41																		
ZZZZZZ			17:45																		
ZZZZZZ			17:49																		
ZZZZZZ			17:53																		
ZZZZZZ			17:57																		
ZZZZZZ			18:01																		
ZZZZZZ			18:05																		
ZZZZZZ			18:10																		
ZZZZZZ			18:13																		
ZZZZZZ			18:17																		
ZZZZZZ			18:21																		
CCV 460-362574/98			18:26																		
CCB 460-362574/99			18:29																		
CCVL 460-362574/100			18:34																		
ZZZZZZ			18:38																		
ZZZZZZ			18:42																		
ZZZZZZ			18:45																		
ZZZZZZ			18:49																		
ZZZZZZ			18:54																		
ZZZZZZ			18:58																		
ZZZZZZ			19:02																		
ZZZZZZ			19:06																		
ZZZZZZ			19:10																		
ZZZZZZ			19:14																		
CCV 460-362574/111			19:18																		
CCB 460-362574/112			19:22																		
CCVL 460-362574/113			19:26																		
ZZZZZZ			19:30																		
ZZZZZZ			19:34																		
ZZZZZZ			19:38																		
ZZZZZZ			19:42																		
ZZZZZZ			19:46																		
ZZZZZZ			19:50																		
ZZZZZZ			19:54																		
ZZZZZZ			19:58																		
ZZZZZZ			20:02																		
ZZZZZZ			20:06																		
CCV 460-362574/124			20:10																		
CCB 460-362574/125			20:14																		
CCVL 460-362574/126			20:19																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Edison Job No.: 460-112069-1

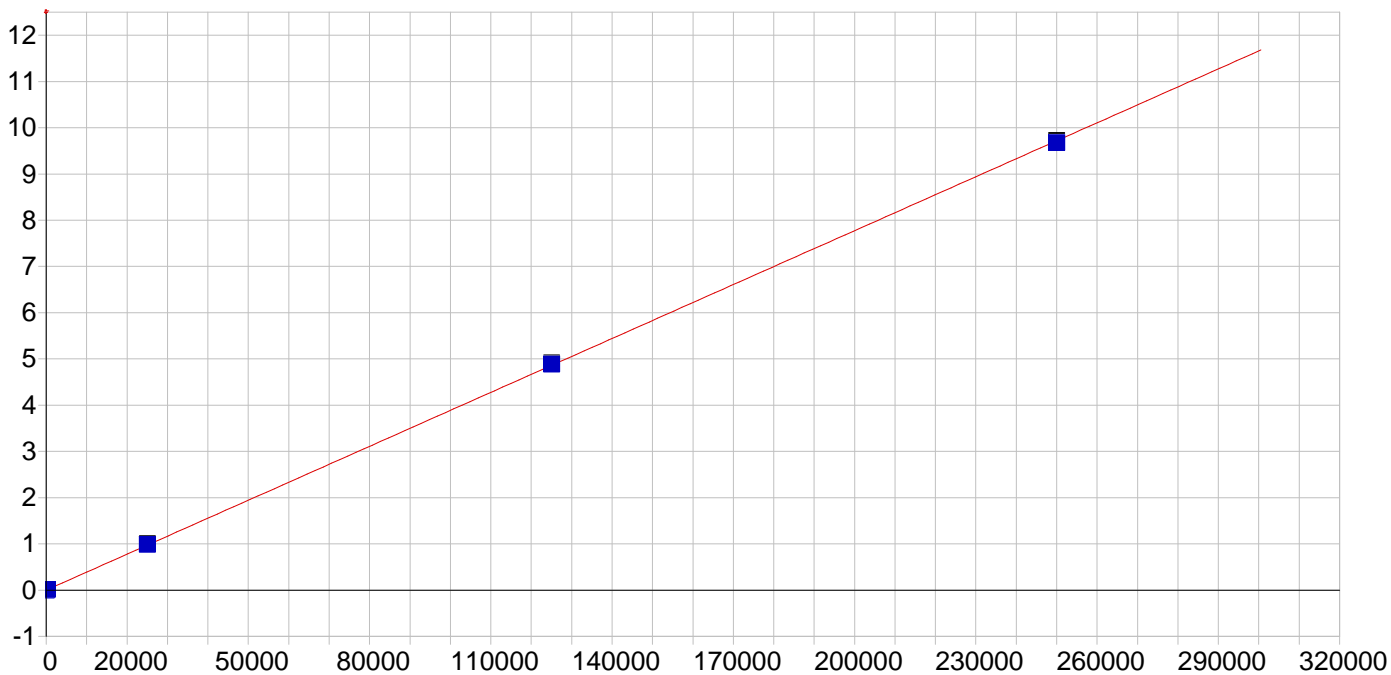
SDG No.: _____

Instrument ID: ICP4 Method: 6010C

Start Date: 04/14/2016 11:32 End Date: 04/14/2016 22:35

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				V	Z n																
CCV 460-362574/127	1		20:25	X	X																
CCB 460-362574/128	1		20:29	X	X																
CCVL 460-362574/129	1		20:33	X	X																
ZZZZZZ			20:37																		
LCSSRM 460-362460/2-A	4	T	20:41	X	X																
ZZZZZZ			20:45																		
ZZZZZZ			20:49																		
ZZZZZZ			20:52																		
ZZZZZZ			20:56																		
ZZZZZZ			21:00																		
ZZZZZZ			21:04																		
ZZZZZZ			21:08																		
ZZZZZZ			21:12																		
CCV 460-362574/140	1		21:16	X	X																
CCB 460-362574/141	1		21:20	X	X																
CCVL 460-362574/142	1		21:24	X	X																
ZZZZZZ			21:28																		
ZZZZZZ			21:32																		
ZZZZZZ			21:36																		
ZZZZZZ			21:40																		
ZZZZZZ			21:44																		
ZZZZZZ			21:48																		
ZZZZZZ			21:52																		
ZZZZZZ			21:56																		
ZZZZZZ			21:59																		
ZZZZZZ			22:04																		
CCV 460-362574/153			22:08																		
CCB 460-362574/154			22:11																		
CCVL 460-362574/155			22:15																		
ZZZZZZ			22:19																		
ZZZZZZ			22:24																		
CCV 460-362574/158			22:28																		
CCB 460-362574/159			22:31																		
CCVL 460-362574/160			22:35																		

Prep Types
T = Total/NA

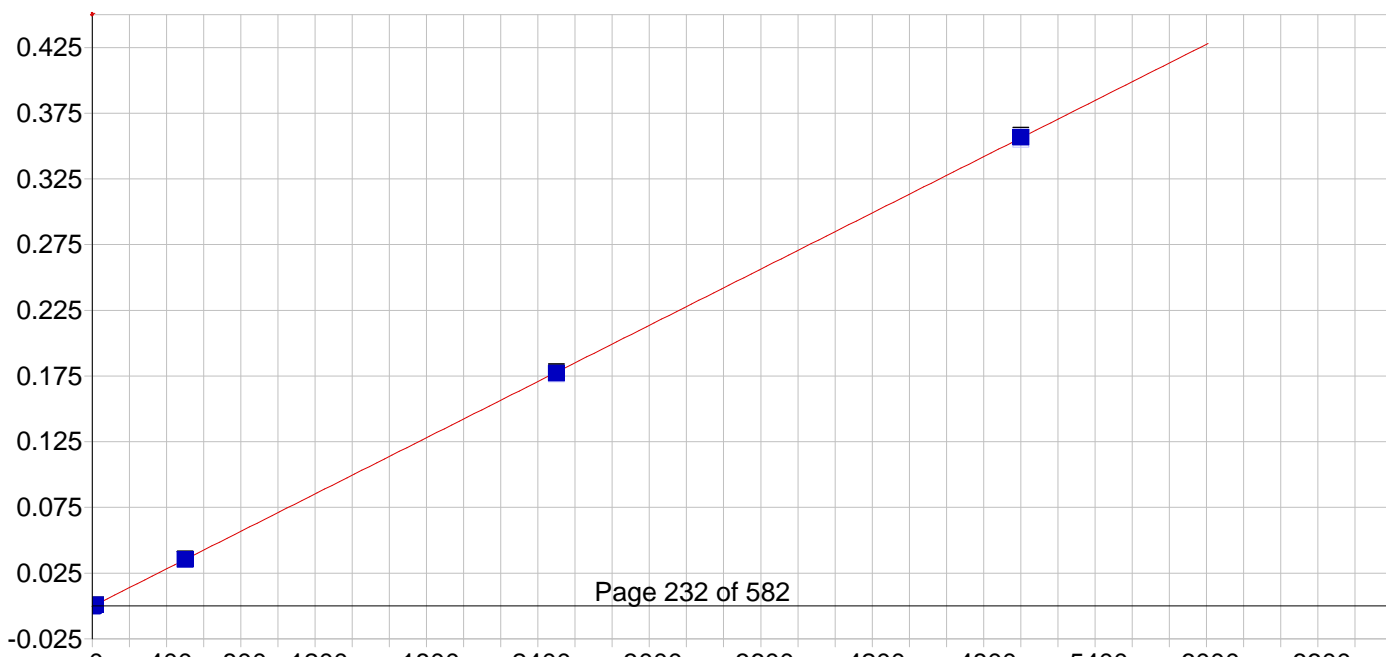


AI 396.152 { 85}

Date of Fit: 4/14/2016 23:00:08 Type of Fit: Linear Weighting: 1/Conc

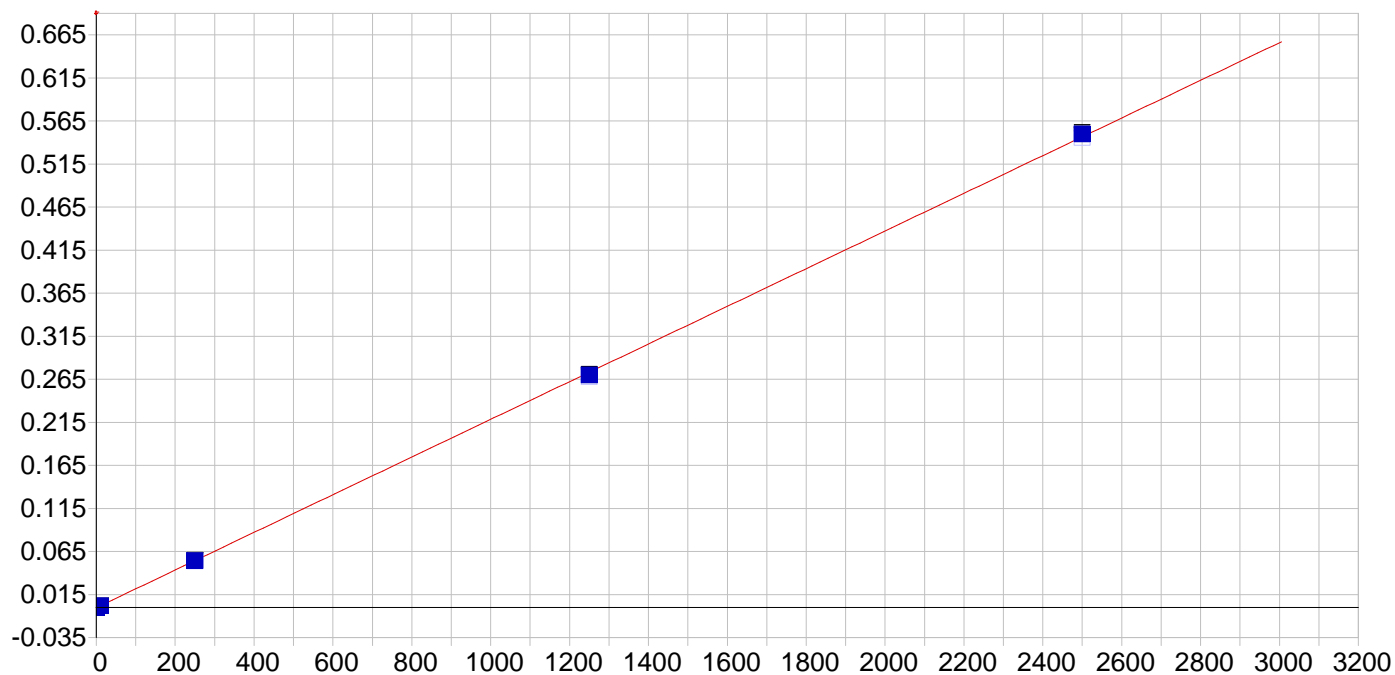
A0 (Offset): -0.000024 Re-Slope: 1.000000
 A1 (Gain): 0.000039 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999982 Status: OK.
 Std Error of Est: 0.000086
 Predicted MDL: 13.895690
 Predicted MQL: 46.318967

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00300	-.003	.000	-.00002	.000	1
CAL2	200.00	199.75	-.251	-.126	.00777	.000	1
CAL3	25000.	25369.	369.	1.47	.98682	.007	1
CAL4	125000.	125740.	744.	.595	4.8915	.016	1
CAL5	250000.	248890.	-1110.	-.445	9.6819	.035	1



Std Error of Est: 0.000002
 Predicted MDL: 2.324368
 Predicted MQL: 7.747895

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.00012		.000	.000	-.00023	.000	1
CAL2	15.000		14.688		-.312	-2.08	.00082	.000	1
CAL3	500.00		501.51		1.51	.301	.03534	.000	1
CAL4	2500.0		2489.9		-10.1	-.406	.17638	.001	1
CAL5	5000.0		5009.0		8.98	.180	.35508	.001	1
CAL1	5.0000		4.9755		-.024	-.489	.00012	.000	1

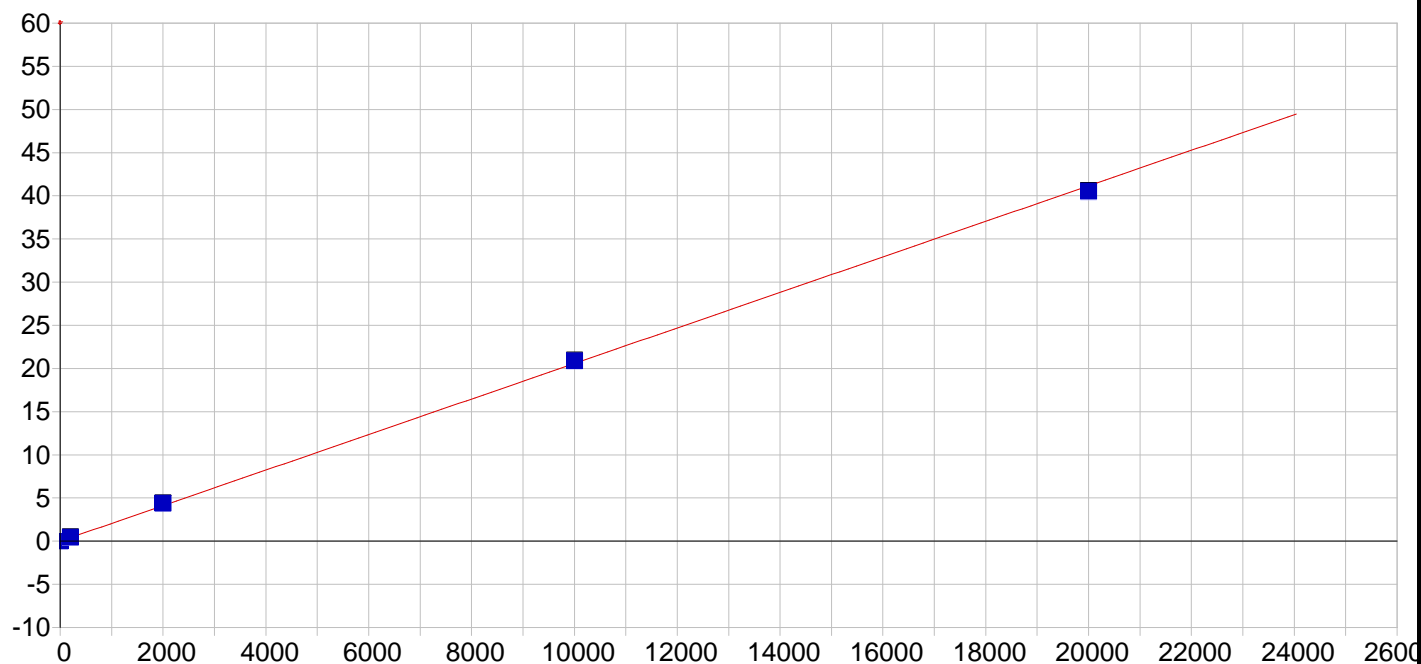


Ag 328.068 {103}

Date of Fit: 4/14/2016 23:00:08 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000317 Re-Slope: 1.000000
 A1 (Gain): 0.000219 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999970 Status: OK.
 Std Error of Est: 0.000014
 Predicted MDL: 0.549619
 Predicted MQL: 1.832063

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.00004		.000	.000	-.00032	.000	1
CAL2	10.000		10.014		.014	.145	.00186	.000	1
CAL3	250.00		250.07		.071	.029	.05401	.000	1
CAL4	1250.0		1235.9		-14.1	-1.13	.26814	.001	1
CAL5	2500.0		2514.0		14.0	.562	.54585	.002	1

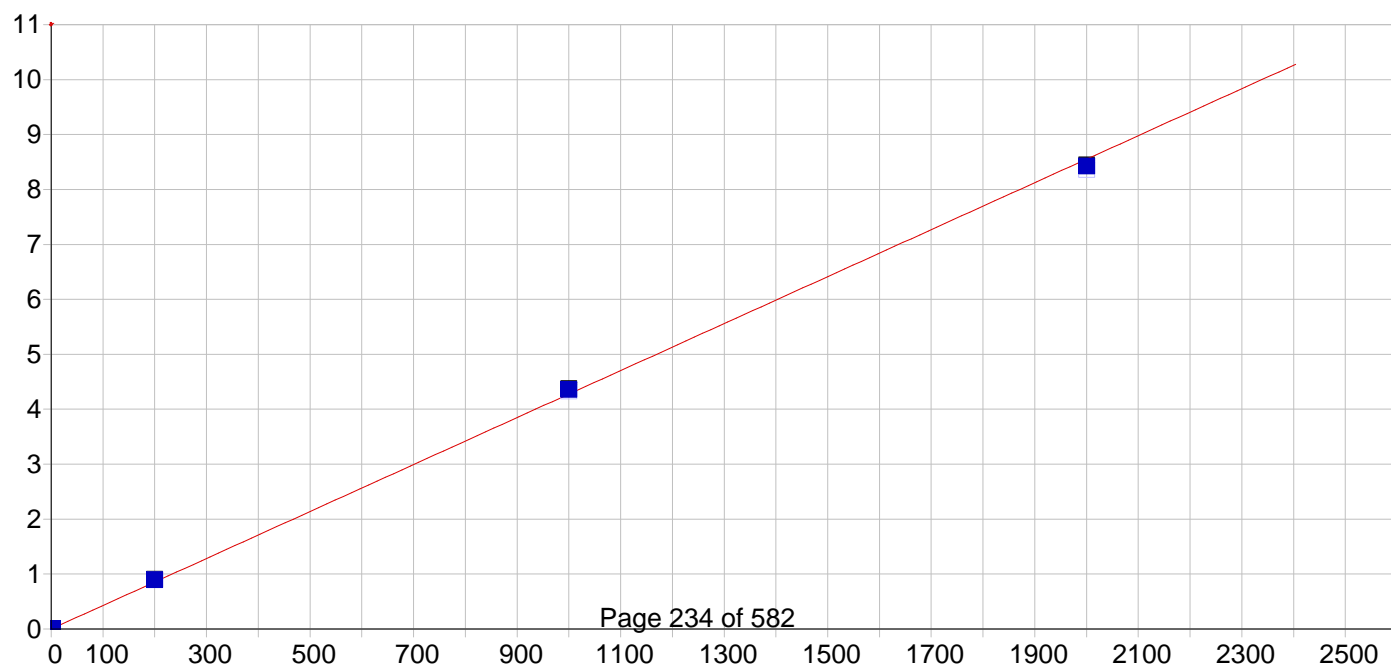


Ba 233.527 {445}

Date of Fit: 4/14/2016 23:00:08 Type of Fit: Linear Weighting: 1/Conc

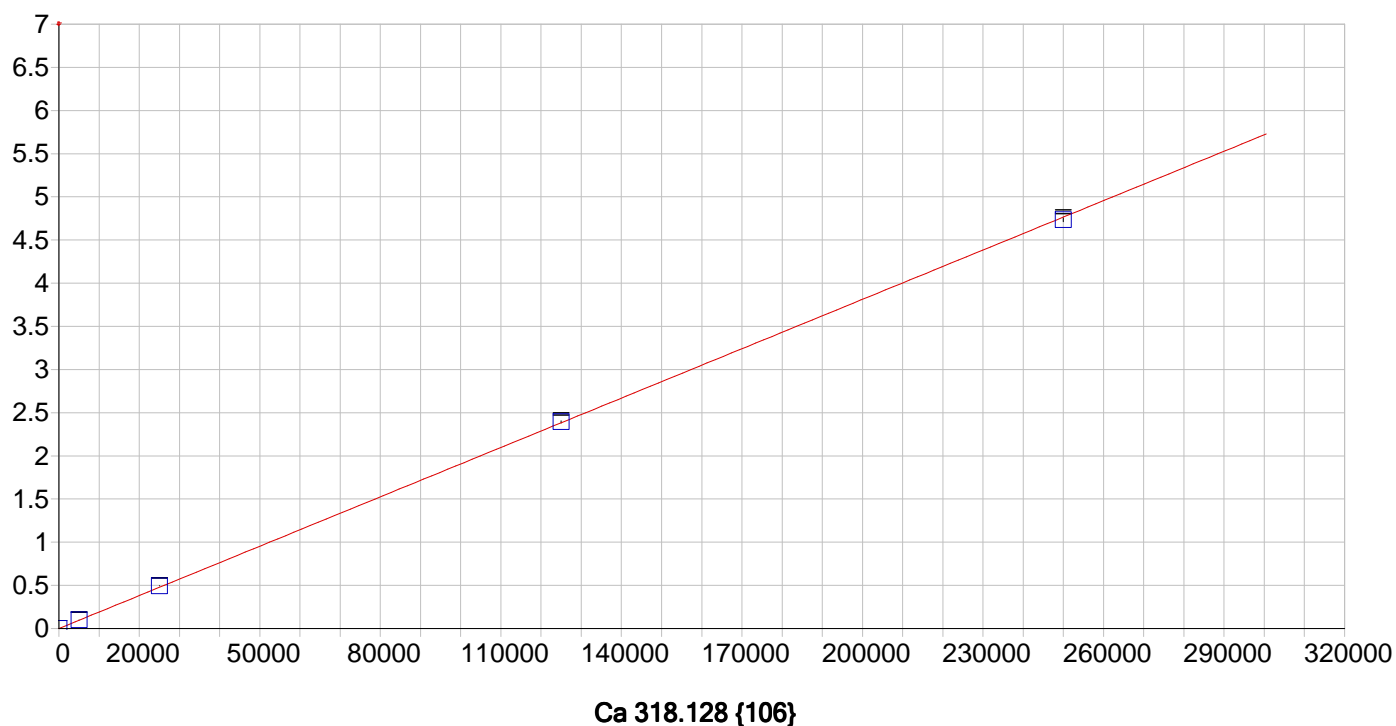
A0 (Offset): 0.000162 Re-Slope: 1.000000
A1 (Gain): 0.002058 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999748 Status: OK.
Std Error of Est: 0.004768
Predicted MDL: 0.145728
Predicted MQL: 0.485759

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.02545	-.025	.000	.00011	.000	1
CAL2	200.00	212.29	12.3	6.14	.43681	.001	1
CAL3	2000.0	2130.4	130.	6.52	4.3737	.008	1
CAL4	10000.	10156.	156.	1.56	20.847	.050	1
CAL5	20000.	19702.	-298.	-1.49	40.439	.047	1



Predicted MDL: 0.106367
Predicted MQL: 0.354556

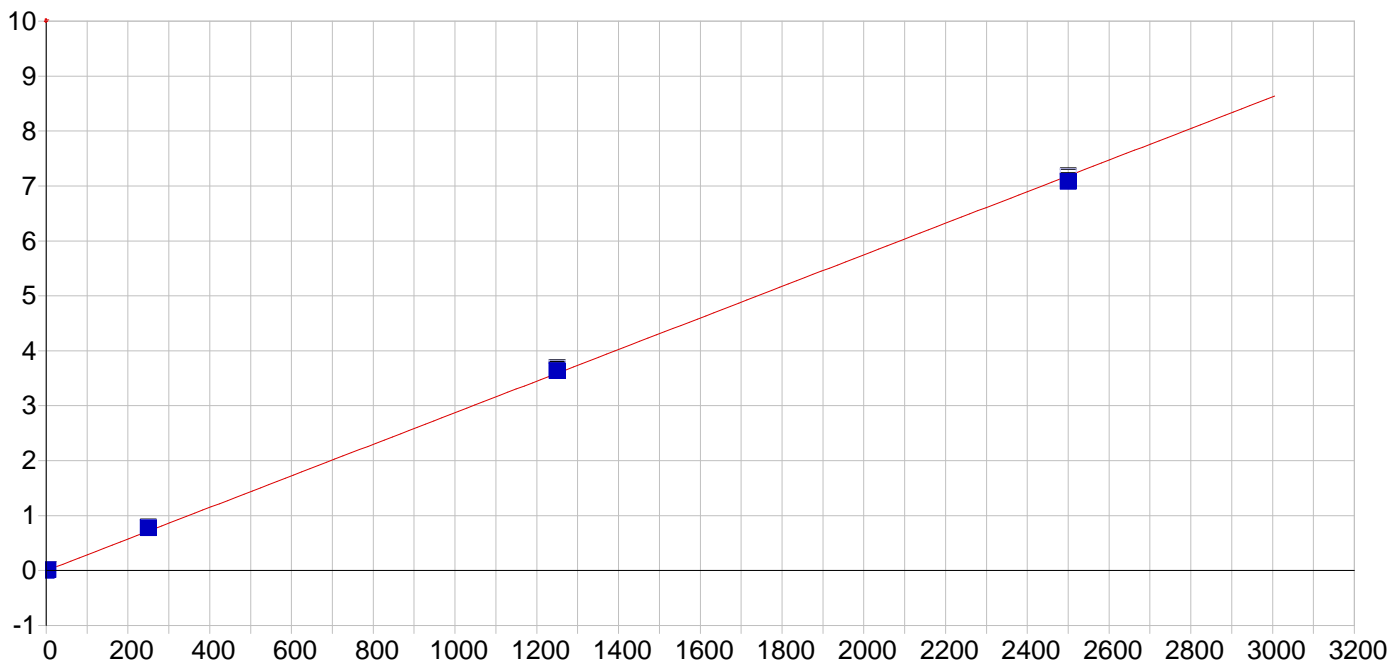
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00013	-.000	.000	.00024	.000	1
CAL2	2.0000	2.0175	.018	.876	.00881	.000	1
CAL3	200.00	210.18	10.2	5.09	.89260	.005	1
CAL4	1000.0	1019.2	19.2	1.92	4.3264	.013	1
CAL5	2000.0	1970.6	-29.4	-1.47	8.3628	.015	1



Date of Fit: 4/14/2016 23:00:08 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000459 Re-Slope: 1.000000
A1 (Gain): 0.000019 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999942 Status: OK.
Std Error of Est: 0.000377
Predicted MDL: 5.837481
Predicted MQL: 19.458270

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.31141	-.311	.000	.00045	.000	1
CAL2	5000.0	5146.8	147.	2.94	.09856	.001	1
CAL3	25000.	25868.	868.	3.47	.49351	.002	1
CAL4	125000.	125570.	567.	.453	2.3938	.012	1
CAL5	250000.	248420.	-1580.	-.632	4.7355	.022	1

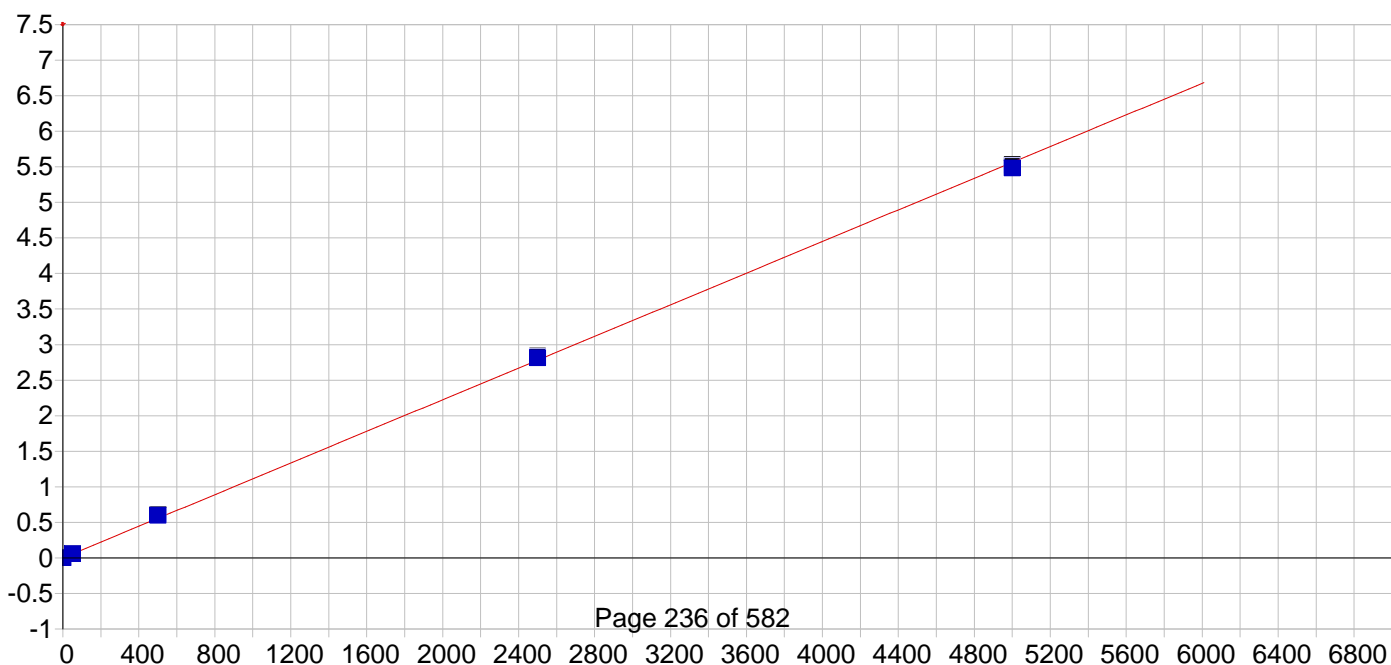


Cd 226.502 {449}

Date of Fit: 4/14/2016 23:00:08 Type of Fit: Linear Weighting: 1/Conc

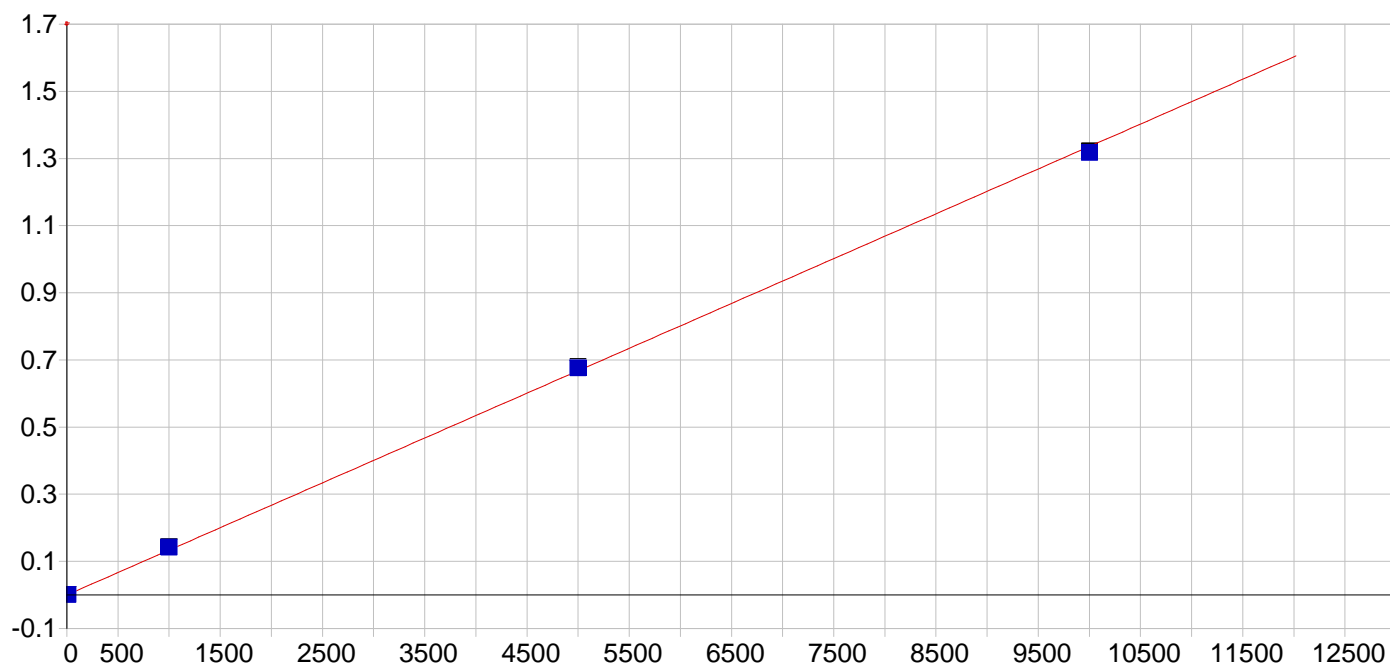
A0 (Offset): -0.000299 Re-Slope: 1.000000
 A1 (Gain): 0.002874 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999717 Status: OK.
 Std Error of Est: 0.000358
 Predicted MDL: 0.124529
 Predicted MQL: 0.415097

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00061		-.001	.000	-.00030	.000	1
CAL2	4.0000		4.2969		.297	7.42	.01212	.000	1
CAL3	250.00		269.76		19.8	7.90	.78384	.002	1
CAL4	1250.0		1266.4		16.4	1.31	3.6836	.014	1
CAL5	2500.0		2463.6		-36.4	-1.46	7.1688	.012	1



Predicted MDL: 0.271145
Predicted MQL: 0.903818

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00746	-.007	.000	-.00062	.000	1
CAL2	50.000	53.700	3.70	7.40	.05915	.000	1
CAL3	500.00	538.98	39.0	7.80	.60282	.000	1
CAL4	2500.0	2529.3	29.3	1.17	2.8322	.003	1
CAL5	5000.0	4928.1	-71.9	-1.44	5.5199	.008	1

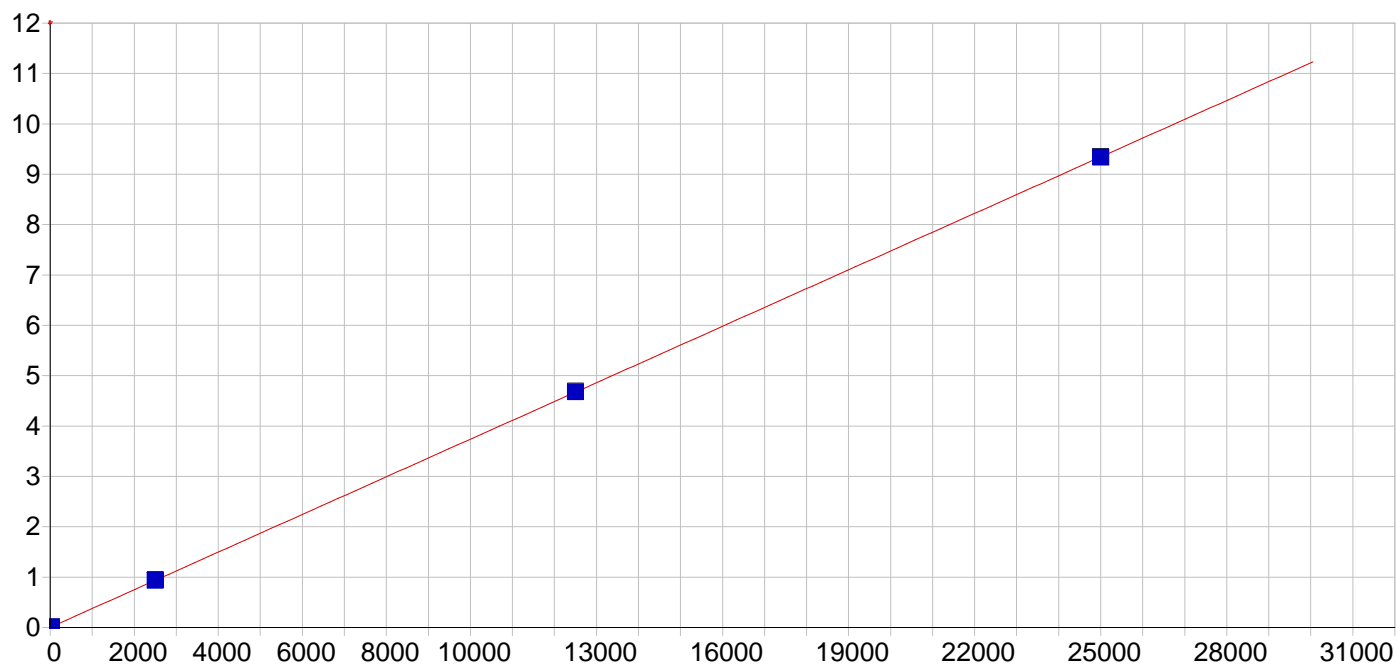


Cr 267.716 {126}

Date of Fit: 4/14/2016 23:00:08 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000019 Re-Slope: 1.000000
A1 (Gain): 0.000134 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999778 Status: OK.
Std Error of Est: 0.000046
Predicted MDL: 0.567793
Predicted MQL: 1.892643

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00162	-.002	.000	.00002	.000	1
CAL2	10.000	10.960	.960	9.60	.00149	.000	1
CAL3	1000.0	1066.6	66.6	6.66	.14249	.000	1
CAL4	5000.0	5064.8	64.8	1.30	.67658	.003	1
CAL5	10000.	9867.6	-132.	-1.32	1.3181	.003	1

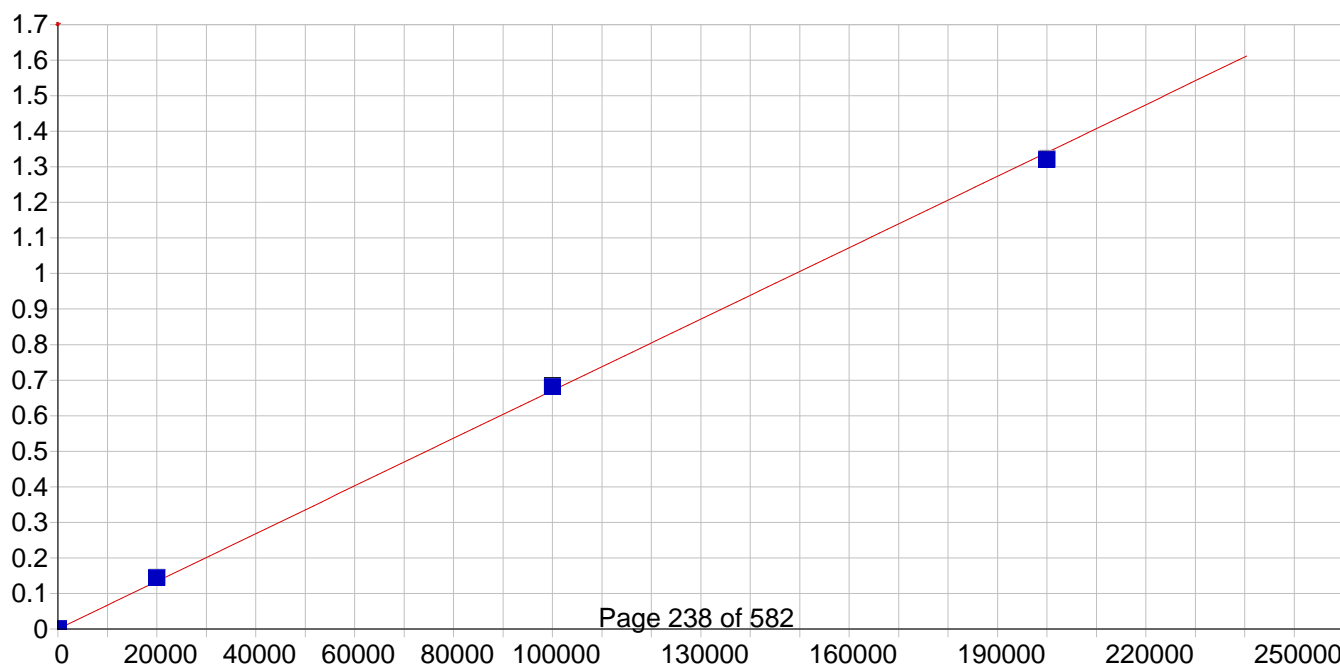


Cu 324.754 {104}

Date of Fit: 4/14/2016 23:00:08 Type of Fit: Linear Weighting: 1/Conc

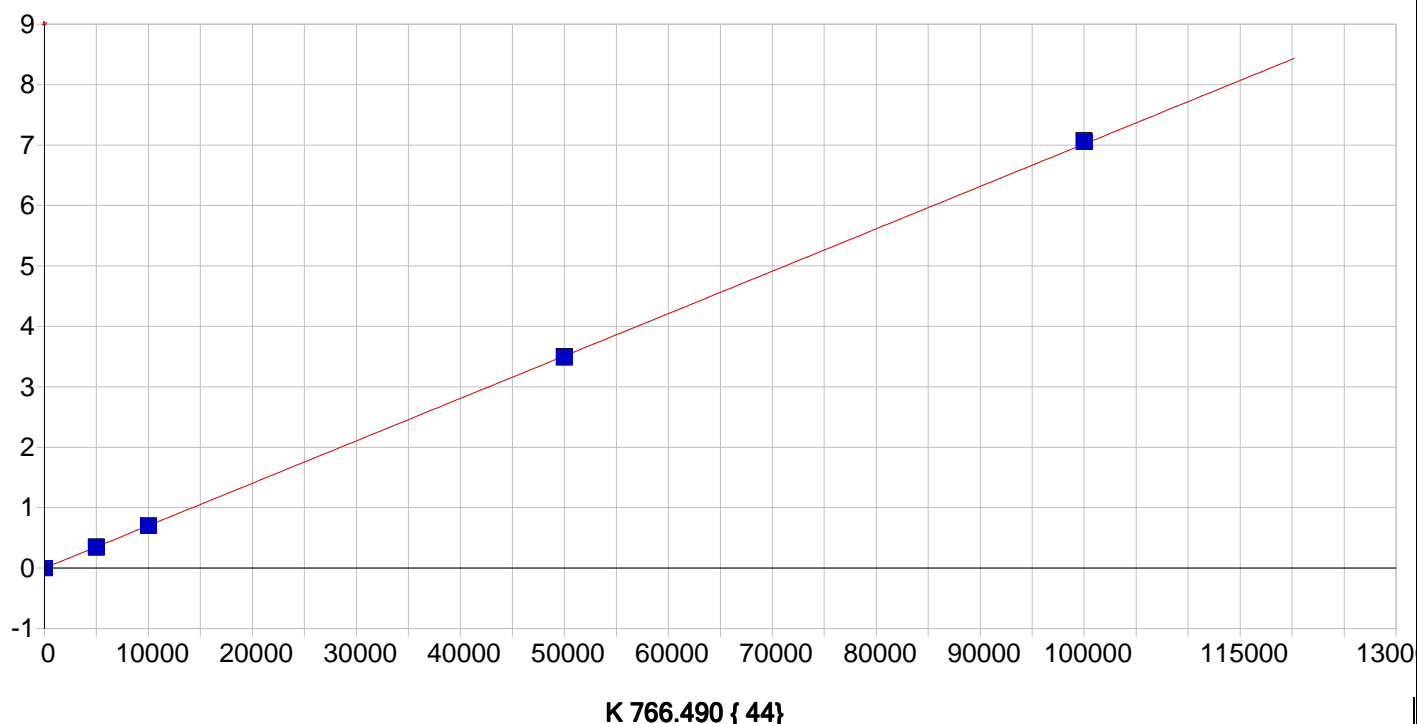
A0 (Offset): 0.003063 Re-Slope: 1.000000
 A1 (Gain): 0.000374 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 1.000000 Status: OK.
 Std Error of Est: 0.000011
 Predicted MDL: 0.301877
 Predicted MQL: 1.006257

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.00036		.000	.000	.00306	.000	1
CAL2	25.000		24.623		-.377	-1.51	.01225	.000	1
CAL3	2500.0		2500.2		.204	.008	.93669	.001	1
CAL4	12500.		12511.		11.2	.089	4.6750	.011	1
CAL5	25000.		24989.		-11.0	-.044	9.3345	.007	1



Predicted MDL: 11.051319
 Predicted MQL: 36.837730

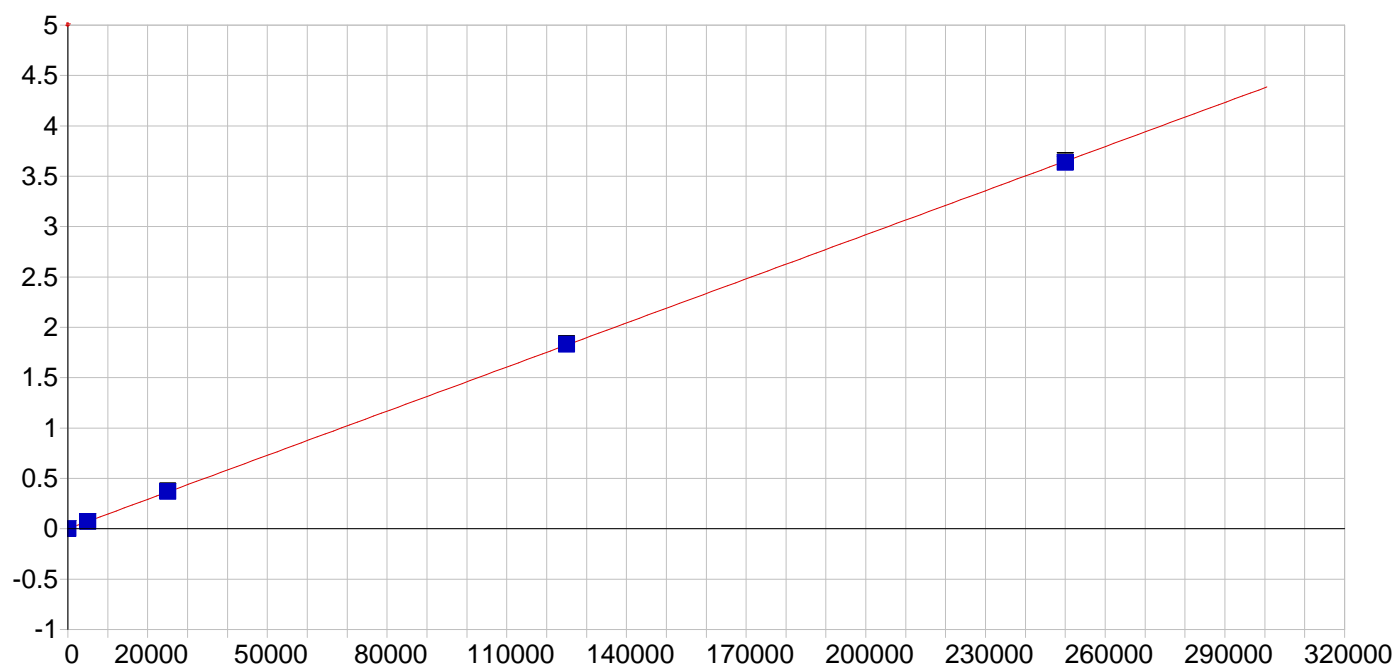
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.02287	-.023	.000	.00015	.000	1
CAL2	150.00	161.43	11.4	7.62	.00126	.000	1
CAL3	20000.	21518.	1520.	7.59	.14470	.001	1
CAL4	100000.	101610.	1610.	1.61	.68279	.002	1
CAL5	200000.	196870.	-3130.	-1.57	1.3229	.001	1



Date of Fit: 4/14/2016 23:00:08 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.001108 Re-Slope: 1.000000
 A1 (Gain): 0.000070 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999972 Status: OK.
 Std Error of Est: 0.000619
 Predicted MDL: 33.944866
 Predicted MQL: 113.149552

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.17804	.178	.000	.00112	.002	1
CAL2	5000.0	4855.4	-145.	-2.89	.34176	.002	1
CAL3	10000.	9945.9	-54.1	-.541	.69918	.003	1
CAL4	50000.	49675.	-325.	-.651	3.4876	.009	1
CAL5	100000.	100520.	524.	.524	7.0566	.011	1

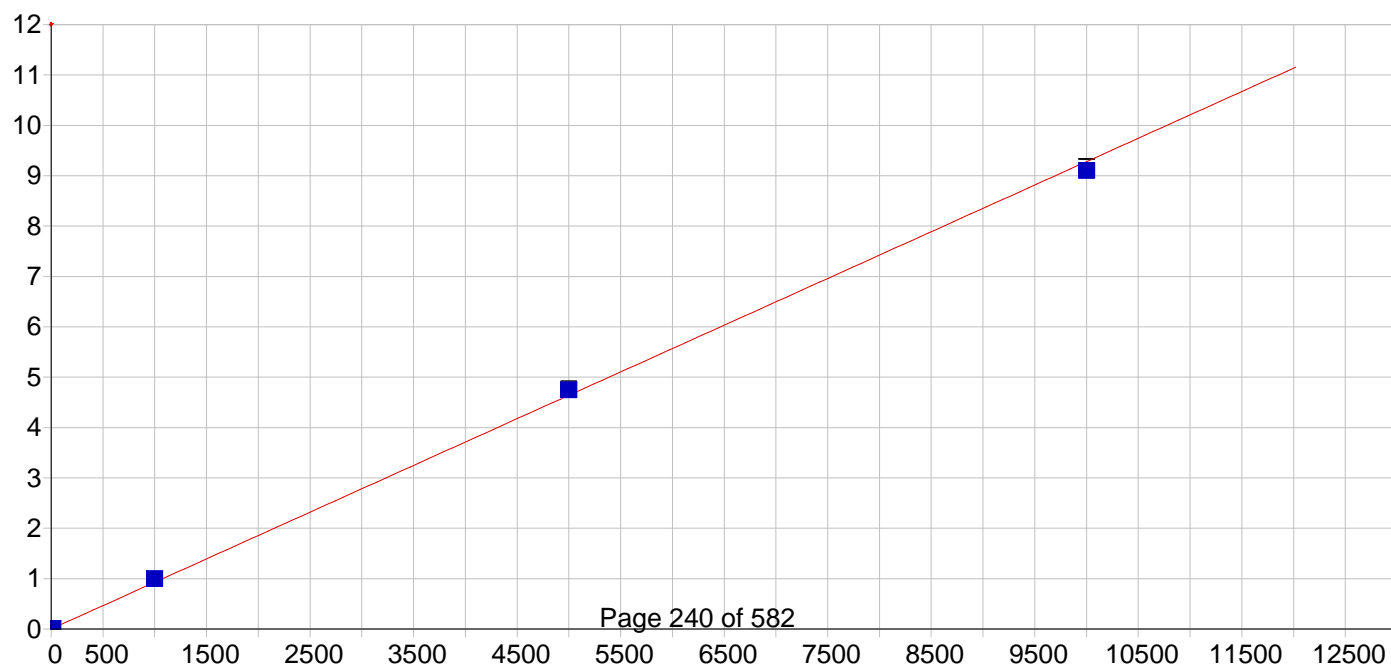


Mg 279.079 {121}

Date of Fit: 4/14/2016 23:00:08 Type of Fit: Linear Weighting: 1/Conc

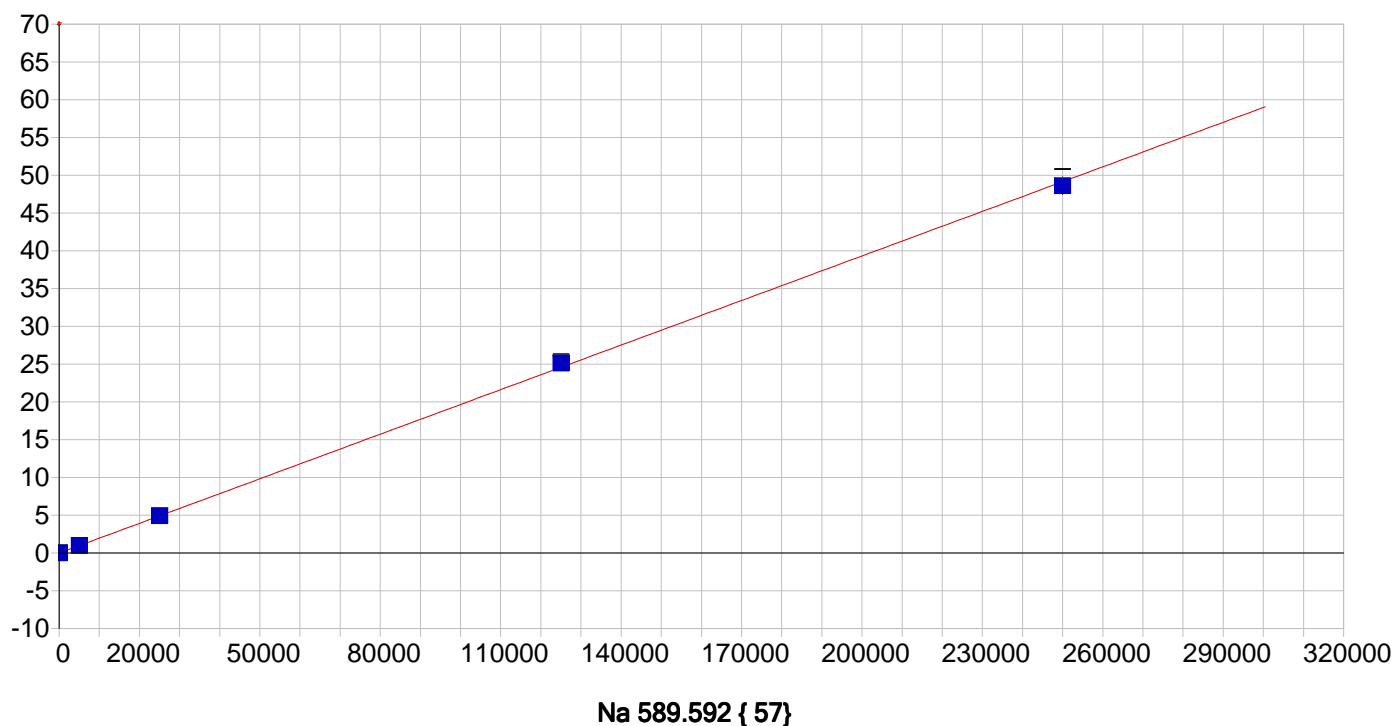
A0 (Offset): 0.000040 Re-Slope: 1.000000
 A1 (Gain): 0.000015 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999987 Status: OK.
 Std Error of Est: 0.000139
 Predicted MDL: 5.576441
 Predicted MQL: 18.588136

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.03117		-.031	.000	.00004	.000	1
CAL2	5000.0		4947.6		-52.4	-1.05	.07225	.000	1
CAL3	25000.		25416.		416.	1.66	.37073	.002	1
CAL4	125000.		125380.		384.	.307	1.8288	.005	1
CAL5	250000.		249250.		-747.	-.299	3.6354	.017	1



Predicted MDL: 0.074739
Predicted MQL: 0.249130

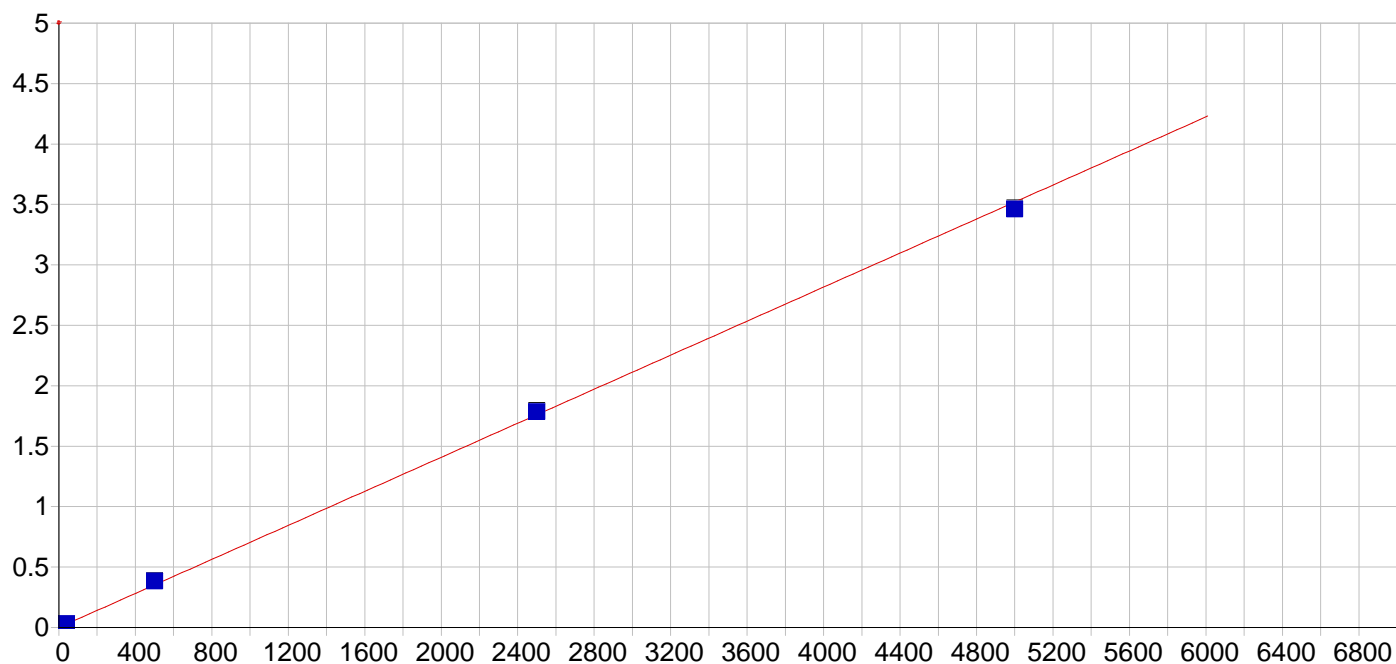
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00237	-.002	.000	.00022	.000	1
CAL2	15.000	16.177	1.18	7.85	.01524	.000	1
CAL3	1000.0	1076.0	76.0	7.60	.99843	.002	1
CAL4	5000.0	5112.8	113.	2.26	4.7432	.015	1
CAL5	10000.	9810.0	-190.	-1.90	9.1003	.074	1



Date of Fit: 4/14/2016 23:00:08 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.003617 Re-Slope: 1.000000
A1 (Gain): 0.000197 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999886 Status: OK.
Std Error of Est: 0.005451
Predicted MDL: 10.631716
Predicted MQL: 35.439054

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	.04955	.050	.000	-.00361	.002	1
CAL2	5000.0	4882.1	-118.	-2.36	.95631	.000	1
CAL3	25000.	25061.	61.0	.244	4.9254	.029	1
CAL4	125000.	127750.	2750.	2.20	25.122	.147	1
CAL5	250000.	247310.	-2690.	-1.08	48.637	1.14	1

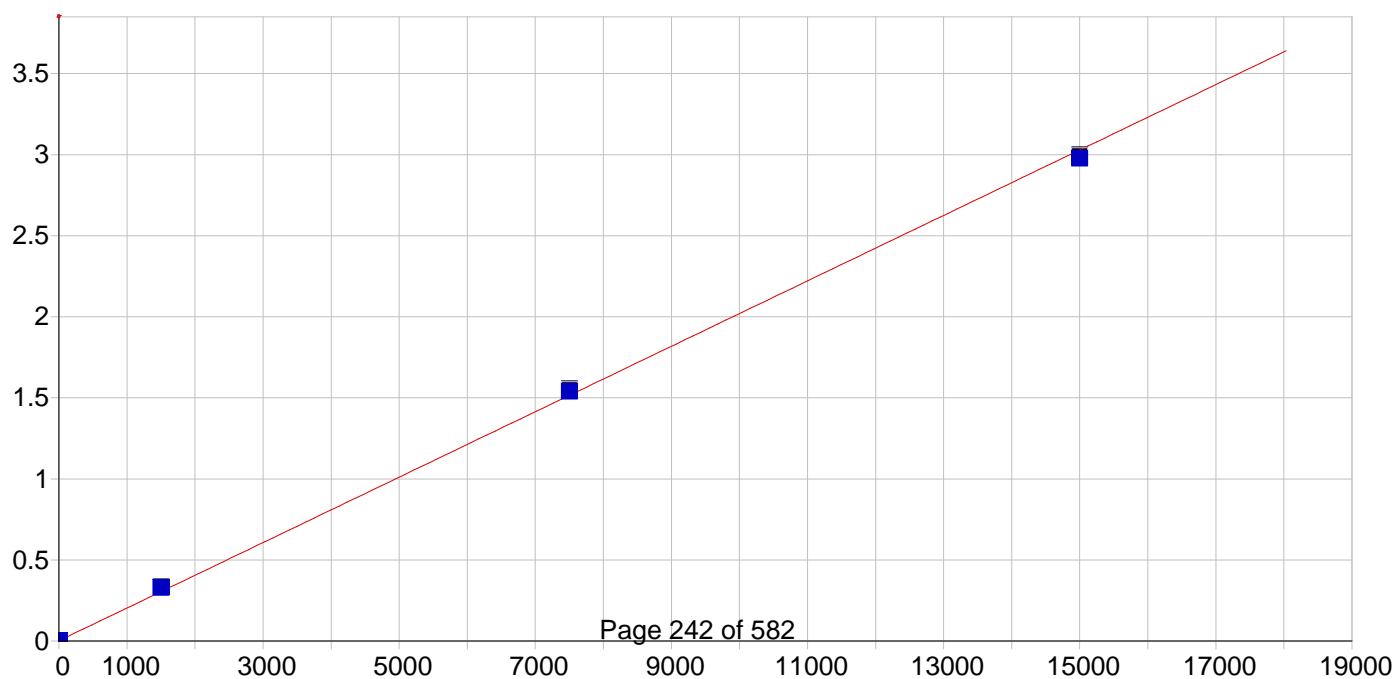


Ni 231.604 {446}

Date of Fit: 4/14/2016 23:00:08 Type of Fit: Linear Weighting: 1/Conc

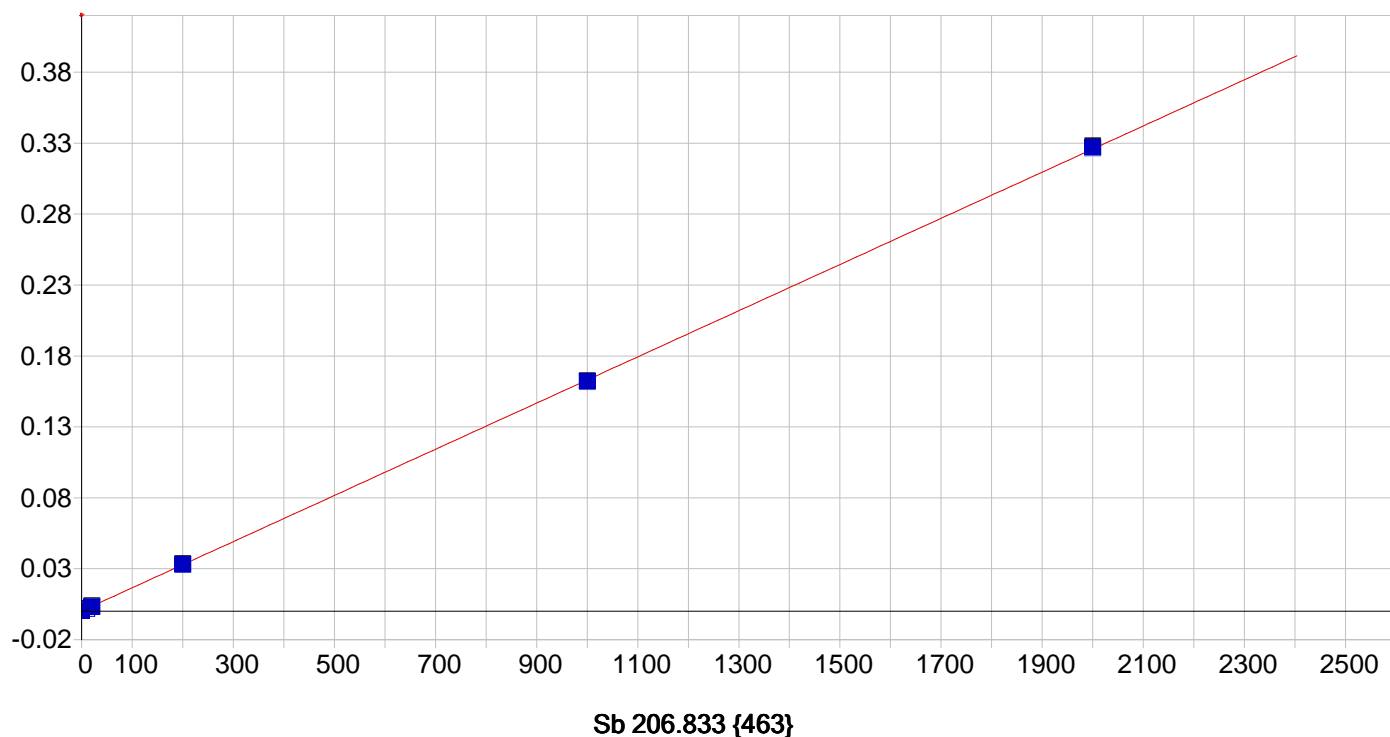
A0 (Offset): 0.000357 Re-Slope: 1.000000
 A1 (Gain): 0.000704 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999613 Status: OK.
 Std Error of Est: 0.000454
 Predicted MDL: 0.498458
 Predicted MQL: 1.661526

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00693		-.007	.000	.00035	.000	1
CAL2	40.000		43.462		3.46	8.66	.03096	.000	1
CAL3	500.00		544.45		44.4	8.89	.38407	.000	1
CAL4	2500.0		2536.9		36.9	1.48	1.7884	.005	1
CAL5	5000.0		4915.2		-84.8	-1.70	3.4649	.005	1



Predicted MDL: 1.928806
 Predicted MQL: 6.429355

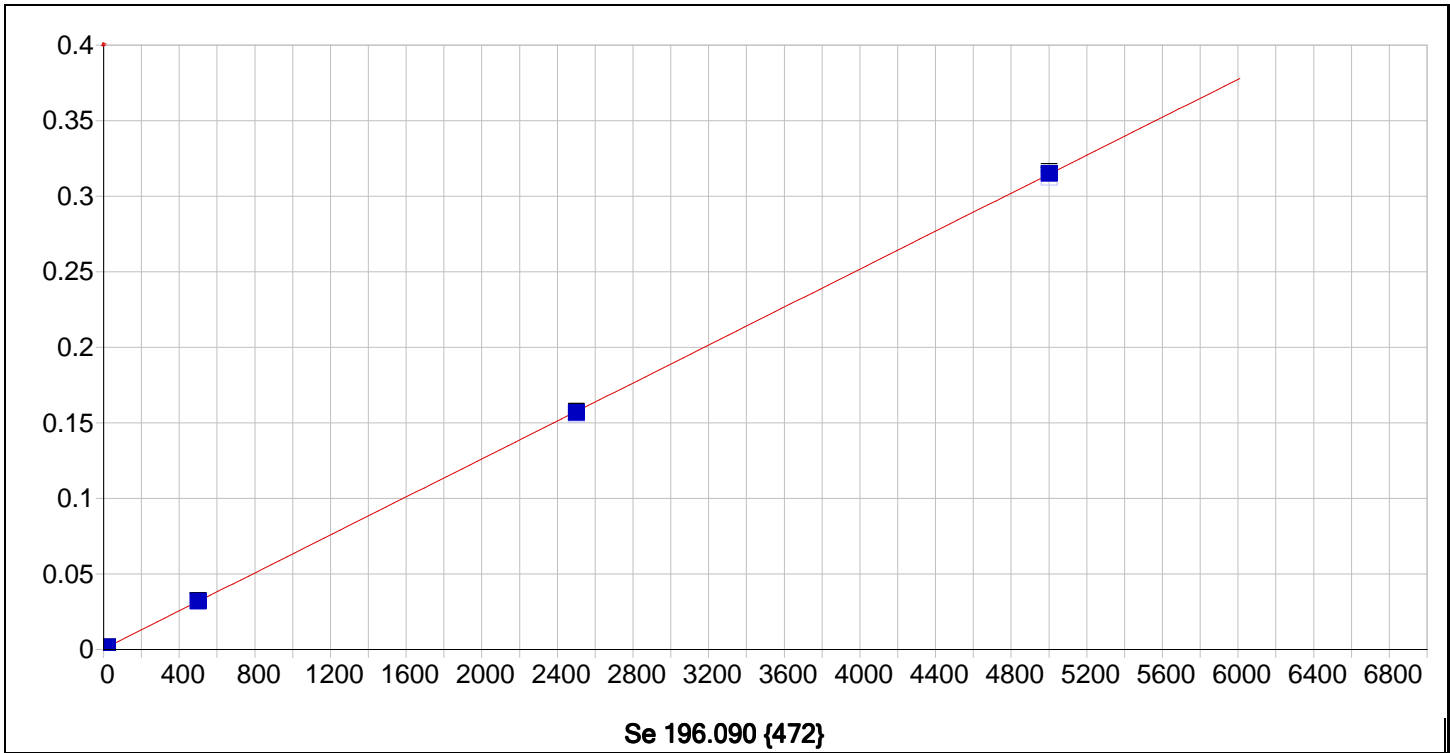
Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00076		-.001	.000	.00159	.000	1
CAL2	10.000		10.468		.468	4.68	.00372	.000	1
CAL3	1500.0		1626.6		127.	8.44	.33146	.001	1
CAL4	7500.0		7628.1		128.	1.71	1.5491	.004	1
CAL5	15000.		14745.		-255.	-1.70	2.9933	.004	1
CAL1	5.0000		5.1010		.101	2.02	.00262	.000	1



Date of Fit: 4/14/2016 23:00:08 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000289 Re-Slope: 1.000000
 A1 (Gain): 0.000163 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999957 Status: OK.
 Std Error of Est: 0.000011
 Predicted MDL: 1.564118
 Predicted MQL: 5.213728

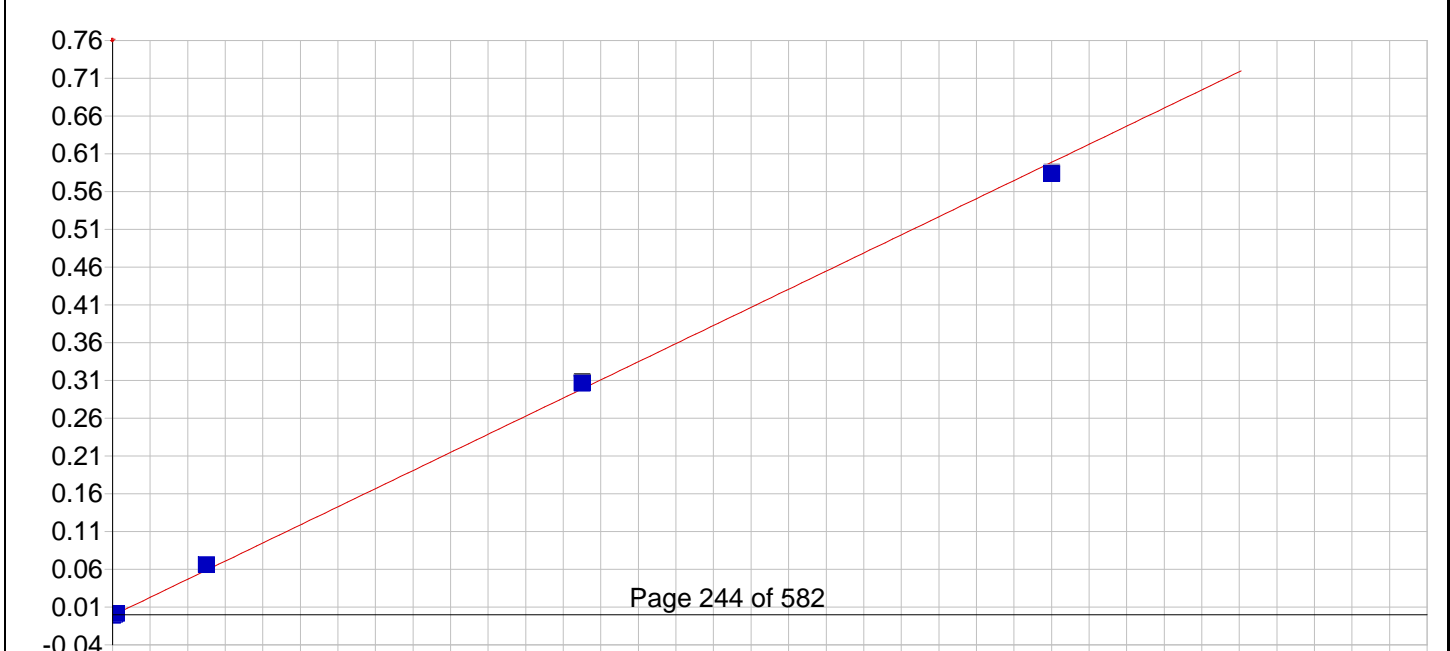
Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.00150		.002	.000	.00029	.000	1
CAL2	20.000		18.244		-1.76	-8.78	.00318	.000	1
CAL3	200.00		201.41		1.41	.705	.03299	.000	1
CAL4	1000.0		993.52		-6.48	-.648	.16158	.000	1
CAL5	2000.0		2007.4		7.45	.372	.32620	.001	1
CAL1	10.000		9.3344		-.666	-6.66	.00181	.000	1



Date of Fit: 4/14/2016 23:00:08 Type of Fit: Linear Weighting: 1/Conc

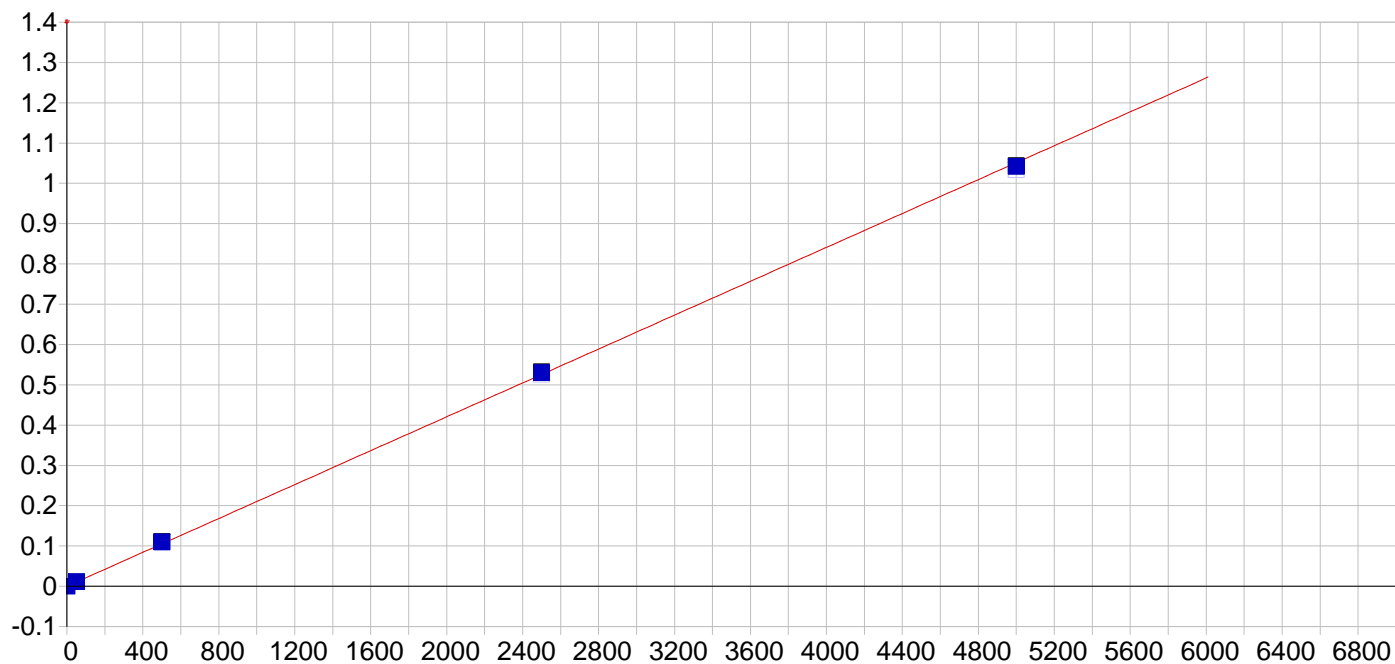
A0 (Offset): 0.000454 Re-Slope: 1.000000
 A1 (Gain): 0.000063 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999963 Status: OK.
 Std Error of Est: 0.000004
 Predicted MDL: 3.268651
 Predicted MQL: 10.895505

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00152		-.002	.000	.00045	.000	1
CAL2	20.000		19.653		-.347	-1.74	.00169	.000	1
CAL3	500.00		503.22		3.22	.645	.03182	.000	1
CAL4	2500.0		2489.3		-10.7	-.429	.15562	.001	1
CAL5	5000.0		5006.2		6.24	.125	.31252	.001	1
CAL1	5.0000		6.5921		1.59	31.8	.00087	.000	1



Std Error of Est: 0.000051
 Predicted MDL: 1.934824
 Predicted MQL: 6.449414

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00338	-.003	.000	-.00109	.000	1
CAL2	20.000	23.069	3.07	15.3	.00169	.000	1
CAL3	500.00	559.84	59.8	12.0	.06618	.000	1
CAL4	2500.0	2560.6	60.6	2.42	.30664	.001	1
CAL5	5000.0	4875.8	-124.	-2.48	.58493	.001	1
CAL1	10.000	10.651	.651	6.51	.00018	.000	1

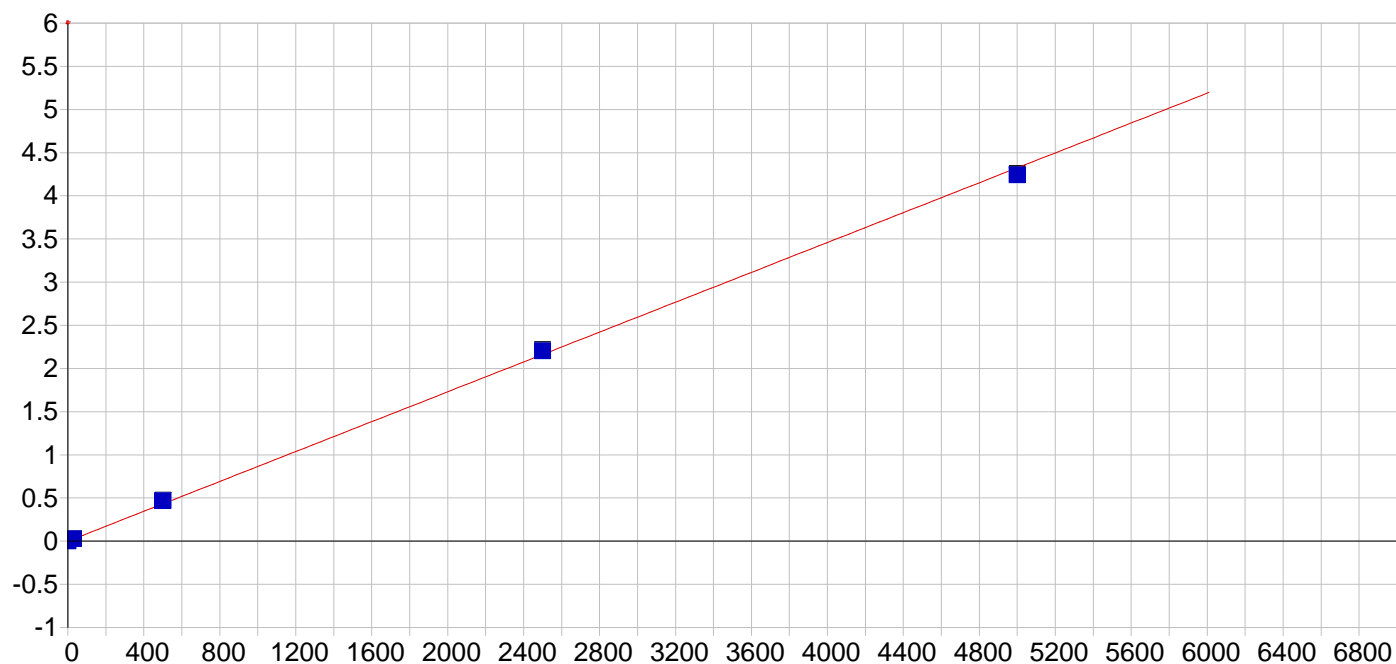


V 292.402 {115}

Date of Fit: 4/14/2016 23:00:08 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): -0.000011 Re-Slope: 1.000000
 A1 (Gain): 0.000210 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999895 Status: OK.
 Std Error of Est: 0.000078
 Predicted MDL: 0.429551
 Predicted MQL: 1.431837

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00407	-.004	.000	-.00001	.000	1
CAL2	50.000	51.860	1.86	3.72	.01086	.000	1
CAL3	500.00	522.44	22.4	4.49	.10900	.000	1
CAL4	2500.0	2521.0	21.0	.839	.52587	.001	1
CAL5	5000.0	4954.7	-45.3	-9.06	1.0334	.001	1

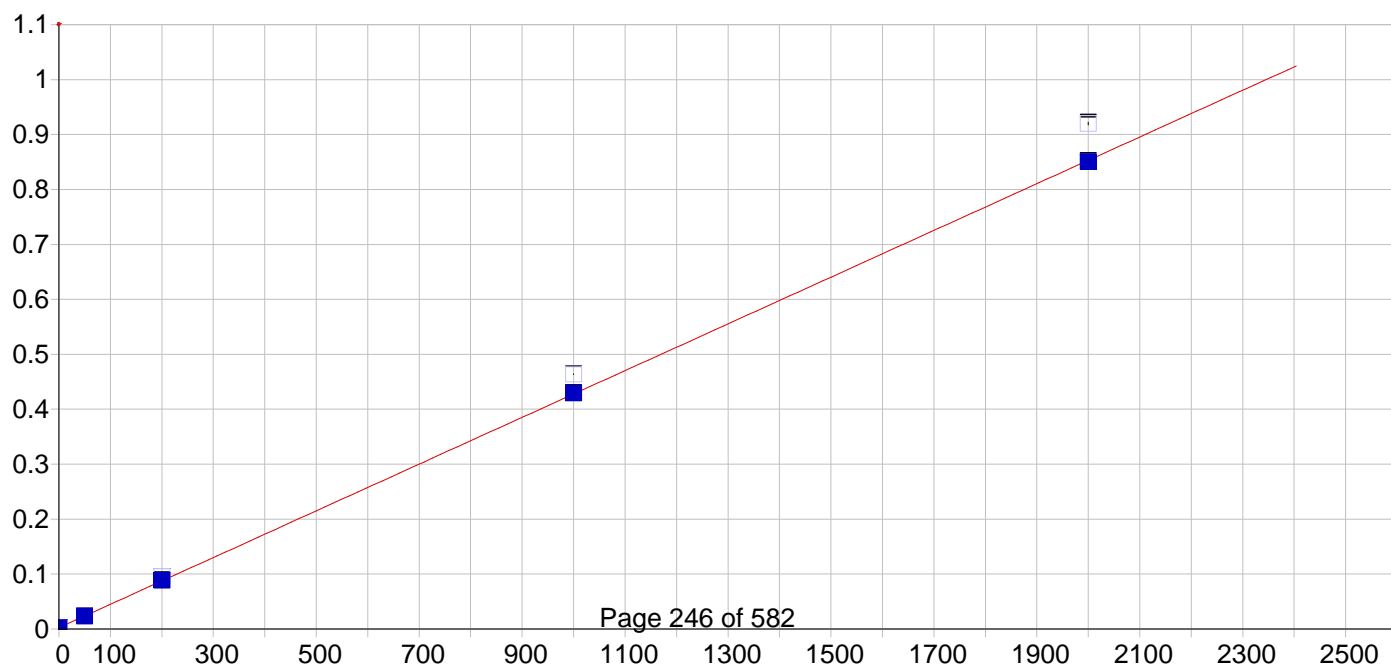


Zn 206.200 {463}

Date of Fit: 4/14/2016 23:00:08 Type of Fit: Linear Weighting: 1/Conc

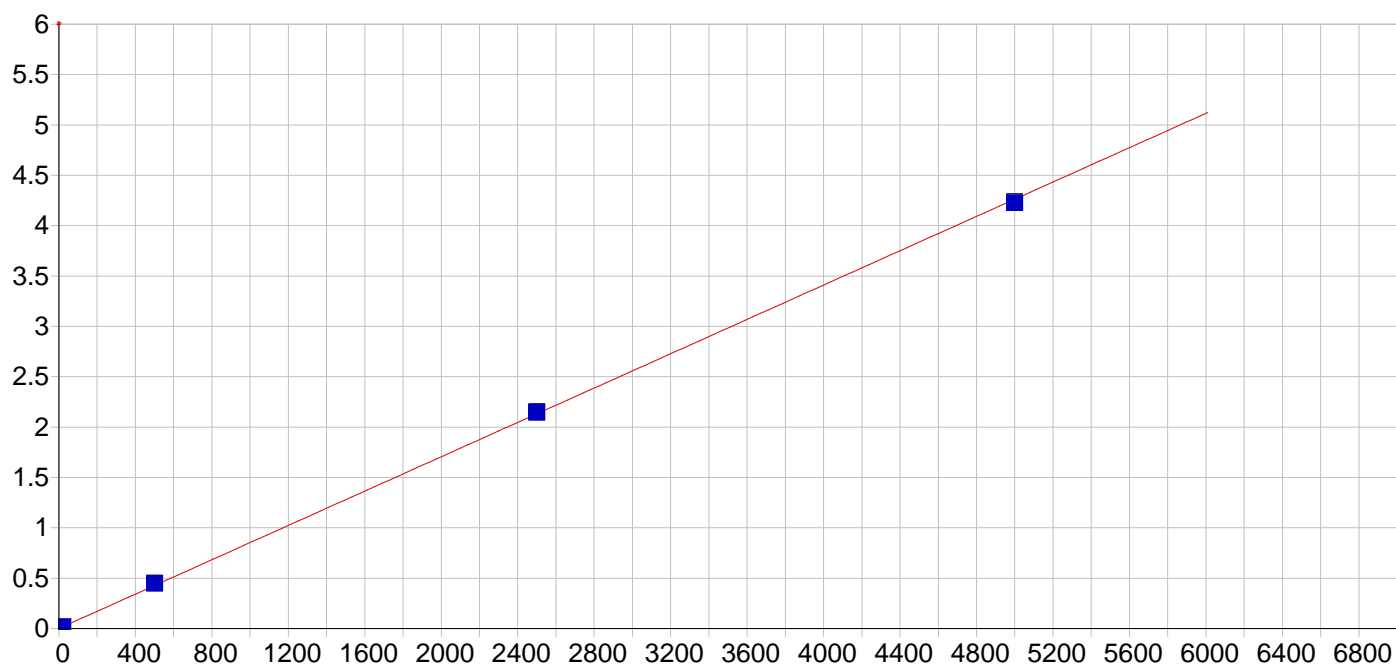
A0 (Offset): -0.000145 Re-Slope: 1.000000
 A1 (Gain): 0.000865 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999592 Status: OK.
 Std Error of Est: 0.000495
 Predicted MDL: 0.237132
 Predicted MQL: 0.790439

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00482		-.005	.000	-.00015	.000	1
CAL2	30.000		32.217		2.22	7.39	.02771	.000	1
CAL3	500.00		543.12		43.1	8.62	.46925	.003	1
CAL4	2500.0		2548.0		48.0	1.92	2.2019	.009	1
CAL5	5000.0		4906.6		-93.4	-1.87	4.2401	.009	1



Predicted MDL: 0.572683
Predicted MQL: 1.908943

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00038		-.000	.000	.00243	.000	1
CAL2	50.000		49.592		-.408	-.816	.02380	.000	1
CAL3	200.00		203.09		3.09	1.54	.09575	.000	1
CAL4	1000.0		1003.4		3.38	.338	.46388	.001	1
CAL5	2000.0		1993.9		-6.08	-.304	.91987	.002	1

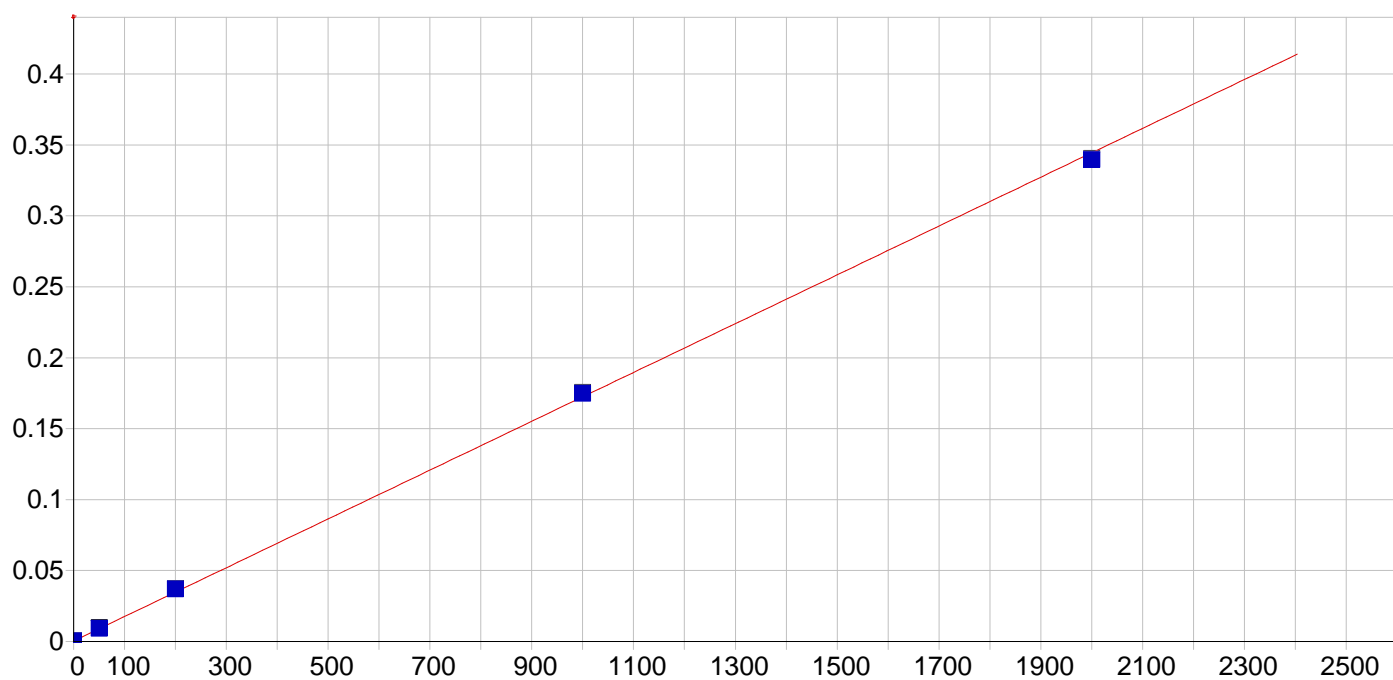


Mo 202.030 {467}

Date of Fit: 4/14/2016 23:00:08 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000511 Re-Slope: 1.000000
A1 (Gain): 0.000852 Y-int: 0.000000
A2 (Curvature): 0.000000
n (Exponent): 1.000000
Correlation: 0.999901 Status: OK.
Std Error of Est: 0.000196
Predicted MDL: 0.251120
Predicted MQL: 0.837068

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		-.00066		-.001	.000	.00051	.000	1
CAL2	20.000		19.741		-.259	-1.30	.01734	.000	1
CAL3	500.00		523.57		23.6	4.71	.44666	.000	1
CAL4	2500.0		2517.8		17.8	.713	2.1460	.003	1
CAL5	5000.0		4958.9		-41.1	-.823	4.2260	.006	1

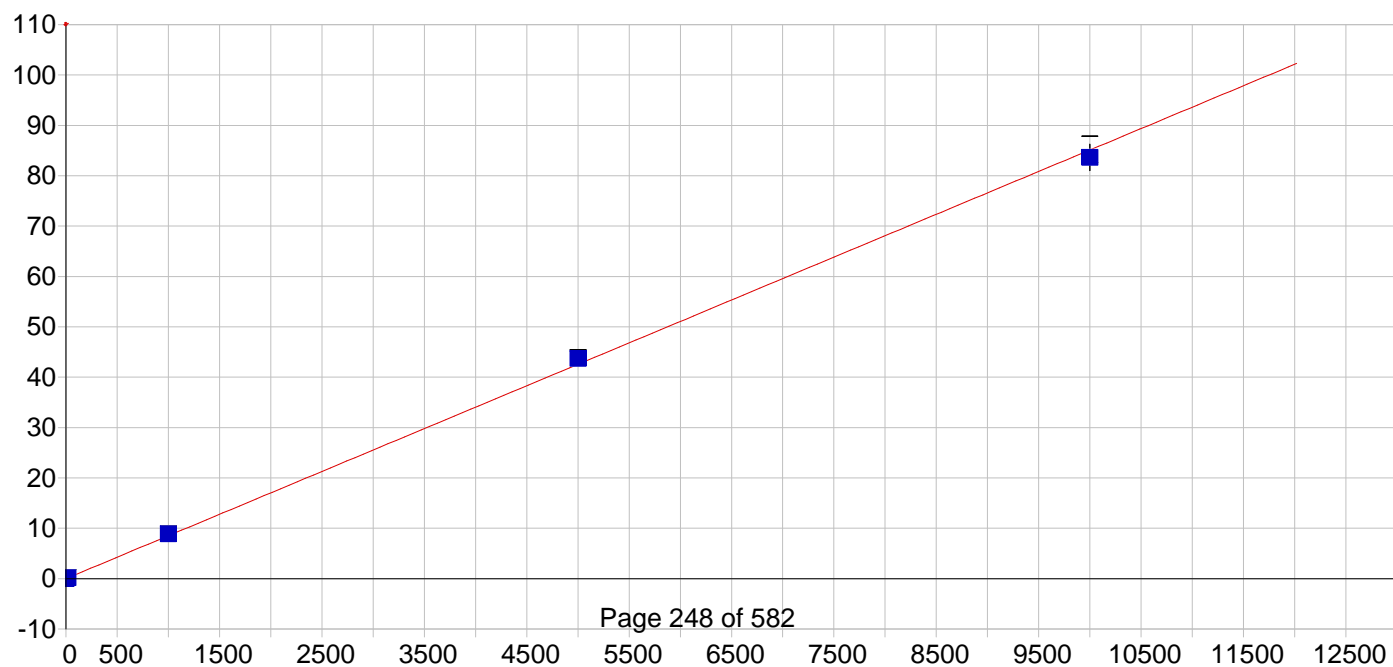


Sn 189.989 {477}

Date of Fit: 4/14/2016 23:00:08 Type of Fit: Linear Weighting: 1/Conc

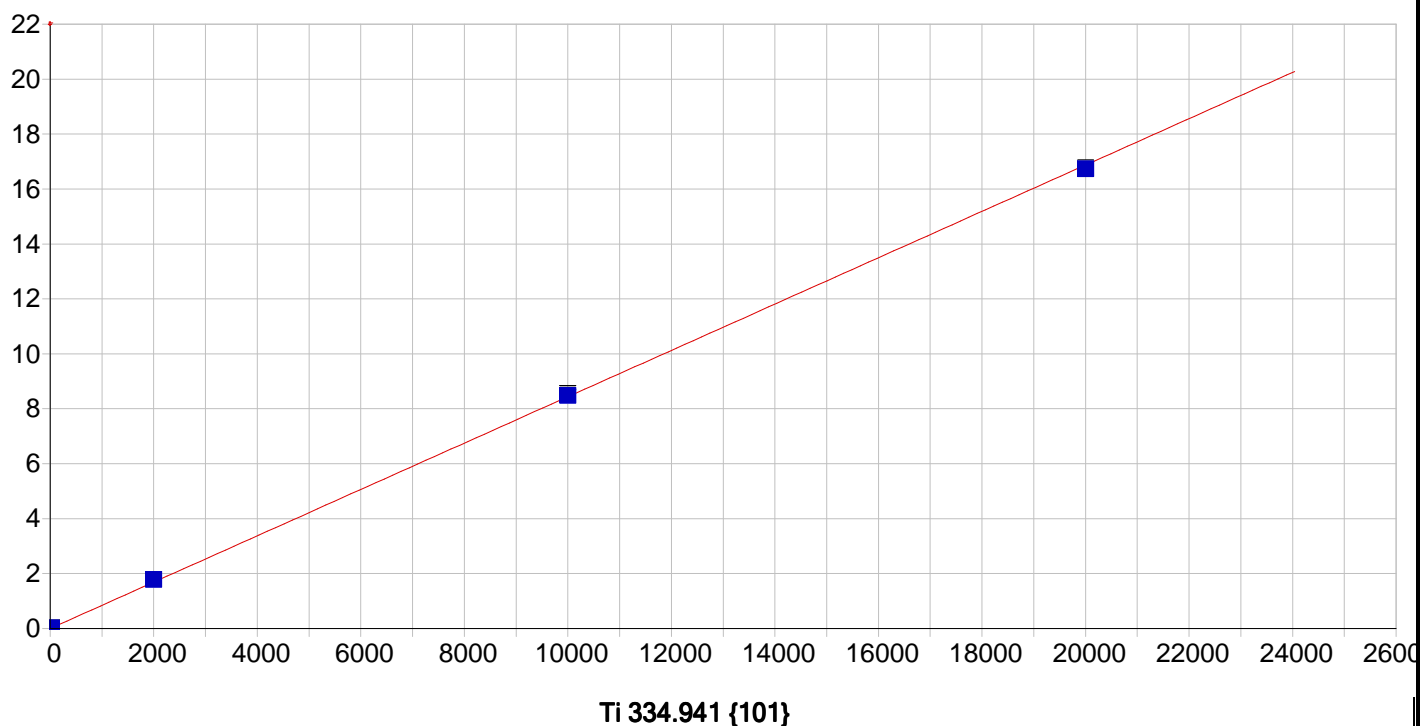
A0 (Offset): 0.000386 Re-Slope: 1.000000
 A1 (Gain): 0.000172 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999780 Status: OK.
 Std Error of Est: 0.000059
 Predicted MDL: 0.905464
 Predicted MQL: 3.018214

Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00454	-.005	.000	.00039	.000	1
CAL2	50.000	51.395	1.39	2.79	.00923	.000	1
CAL3	200.00	212.55	12.6	6.28	.03700	.000	1
CAL4	1000.0	1014.4	14.4	1.44	.17516	.000	1
CAL5	2000.0	1971.6	-28.4	-1.42	.34009	.000	1



Predicted MDL: 0.104918
 Predicted MQL: 0.349727

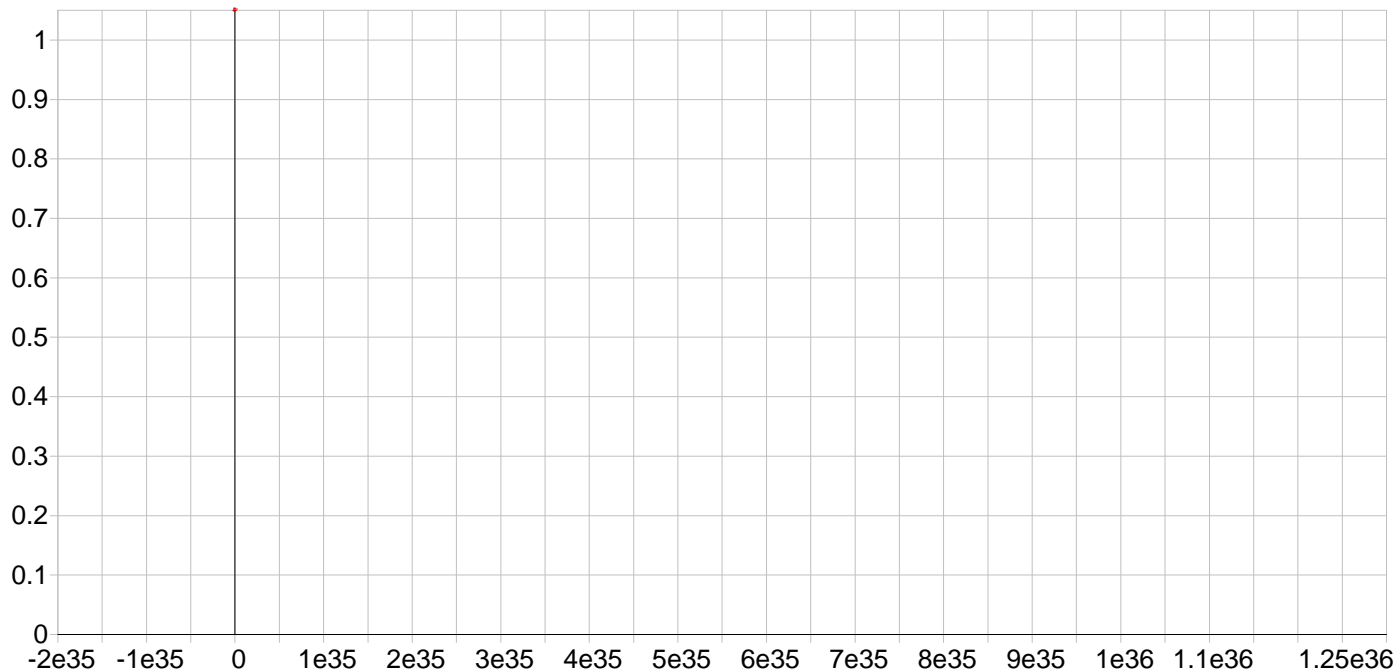
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00197	-.002	.000	-.00296	.000	1
CAL2	20.000	20.958	.958	4.79	.17568	.001	1
CAL3	1000.0	1041.7	41.7	4.17	8.8674	.022	1
CAL4	5000.0	5133.3	133.	2.67	43.710	.190	1
CAL5	10000.	9824.0	-176.	-1.76	83.655	2.62	1



Date of Fit: 4/14/2016 23:00:08 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.000894 Re-Slope: 1.000000
 A1 (Gain): 0.000844 Y-int: 0.000000
 A2 (Curvature): 0.000000
 n (Exponent): 1.000000
 Correlation: 0.999879 Status: OK.
 Std Error of Est: 0.000429
 Predicted MDL: 0.173287
 Predicted MQL: 0.577623

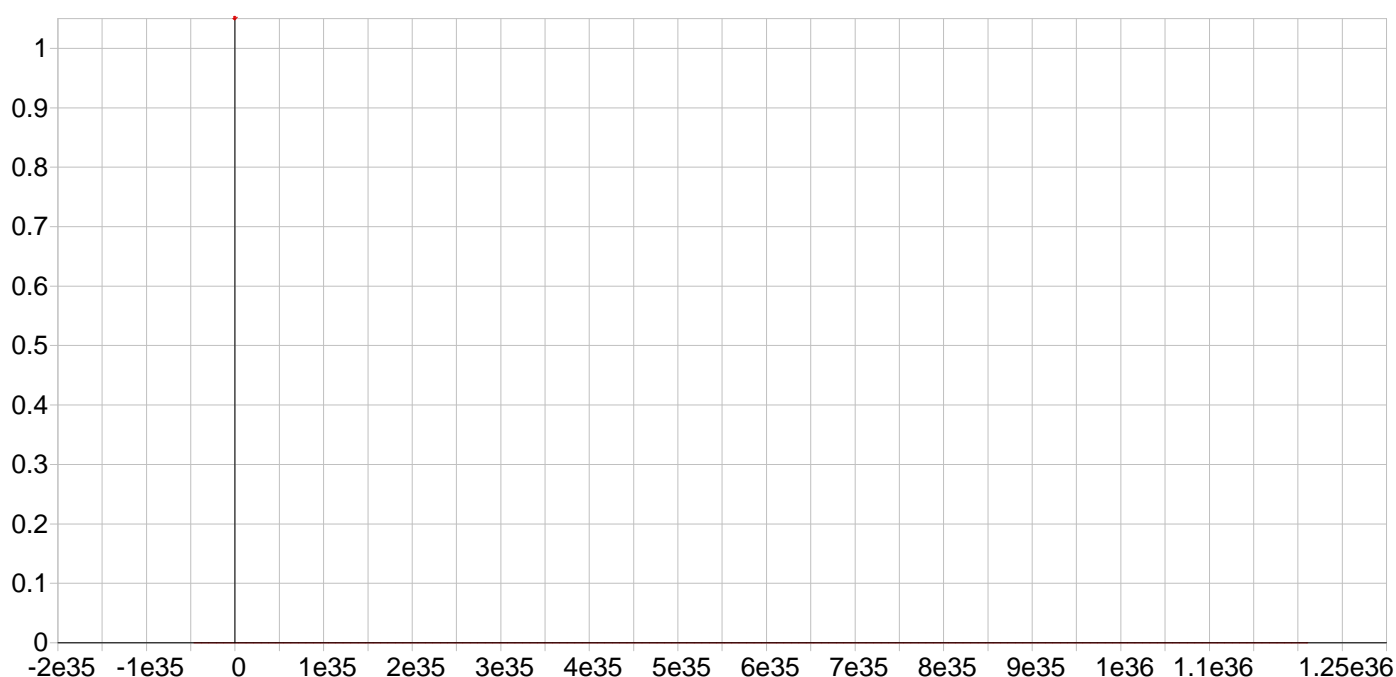
Std. Name	Stated Conc.	Found Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000	-.00160	-.002	.000	.00089	.000	1
CAL2	20.000	20.548	.548	2.74	.01823	.000	1
CAL3	2000.0	2110.6	111.	5.53	1.7815	.005	1
CAL4	10000.	10054.	53.7	.537	8.4827	.073	1
CAL5	20000.	19835.	-165.	-.824	16.735	.017	1



Y 224.306 {450}*
Date of Fit: 4/14/2016 23:00:08 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		

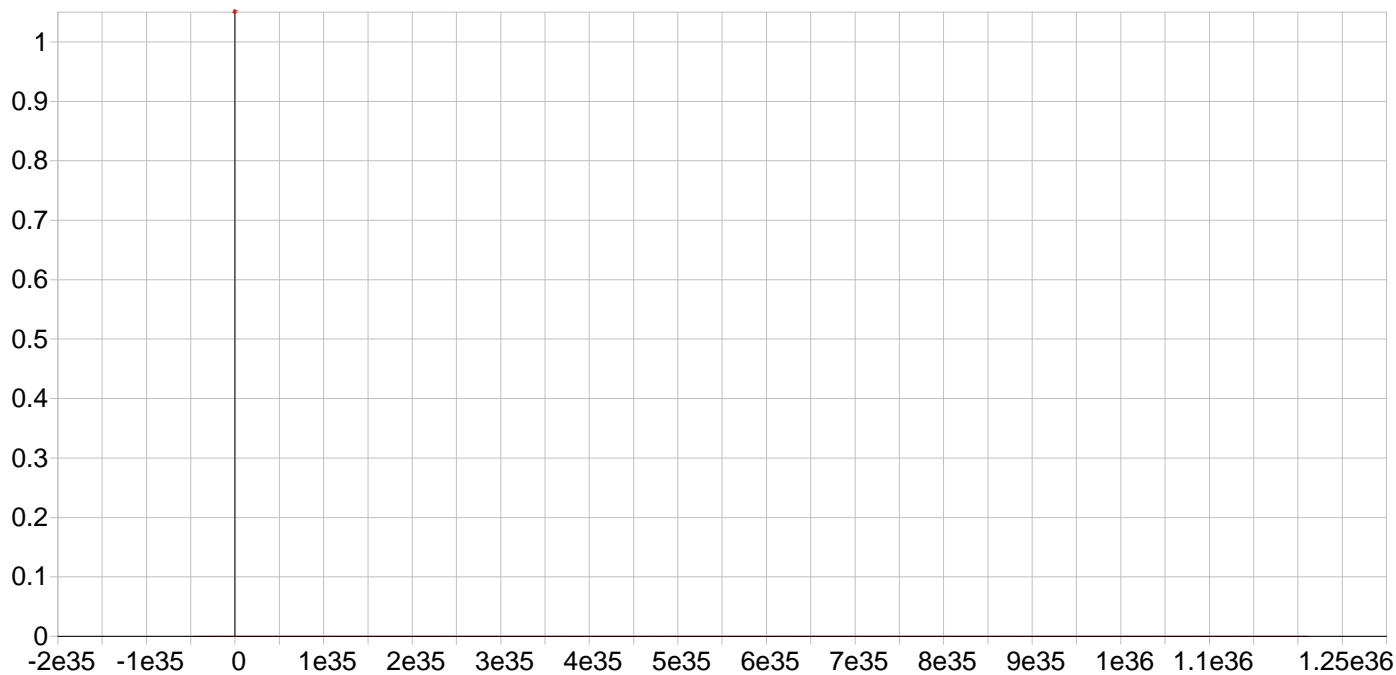
Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
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Y 360.073 { 94}*
Date of Fit: 4/14/2016 23:00:08 Type of Fit: Linear Weighting: 1/Conc

Date of Fit: 4/14/2016 23:00:08 Type of Fit: Linear Weighting: 1/Conc

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

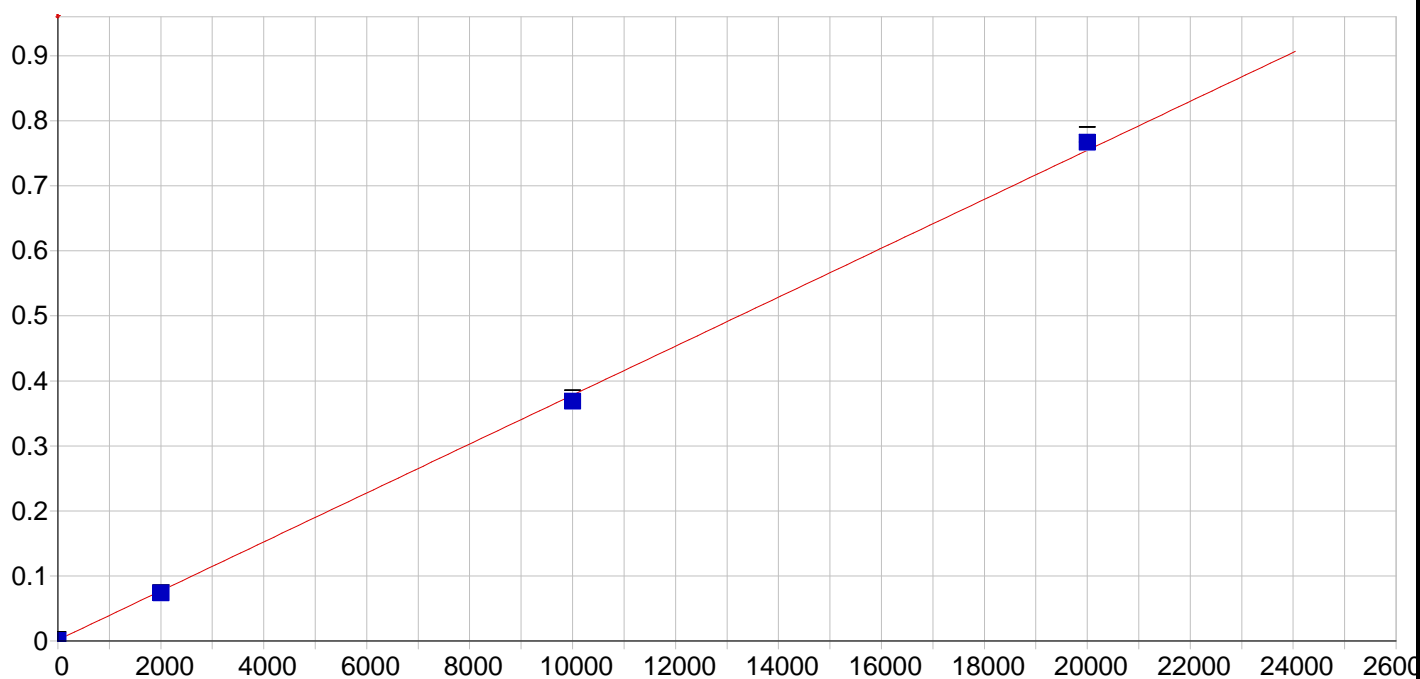


Y 371.030 { 91}*

Date of Fit: 4/14/2016 23:00:08 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: 4/14/2016 23:00:08 Type of Fit: Linear Weighting: 1/Conc

A0 (Offset): 0.001698 Re-Slope: 1.000000

Std. Name	Stated	Conc.	Found	Conc.	Difference	% Diff.	(S)IR	Std Dev	Emphasis
ICIS Cal Blk	.00000		.10466		.105	.000	.00170	.000	1
CAL5	20000.		20336.		336.	1.68	.76607	.012	1
CAL3	2000.0		1911.1		-88.9	-4.44	.07353	.000	1
CAL4	10000.		9753.4		-247.	-2.47	.36828	.005	1

Sample Name: ICIS Cal Blk Acquired: 4/14/2016 11:32:40 Type: Cal
Method: sw04052016(v9) 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	-.0000	-.0002	-.0003	.0001	.0002	.0005
Stddev	.0004	.0001	.0001	.0001	.0002	.0001
%RSD	1647.	38.94	29.97	116.8	84.63	24.75

#1	.0003	-.0001	-.0004	.0003	.0000	.0005
#2	-.0005	-.0003	-.0003	.0000	.0002	.0006
#3	.0001	-.0003	-.0002	.0000	.0004	.0003

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	-.0003	-.0006	.0000	.0031	.0001	.0011
Stddev	.0002	.0002	.0001	.0001	.0000	.0018
%RSD	58.36	24.43	305.7	2.821	11.85	156.8

#1	-.0005	-.0008	.0001	.0030	.0001	.0031
#2	-.0003	-.0005	.0000	.0031	.0002	.0002
#3	-.0001	-.0006	-.0000	.0031	.0001	.0000

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	.0002	-.0036	.0004	.0016	.0003
Stddev	.0000	.0000	.0017	.0002	.0004	.0003
%RSD	106.9	21.03	47.94	49.29	22.41	120.4

#1	.0001	.0002	-.0042	.0002	.0017	.0000
#2	.0000	.0003	-.0050	.0005	.0012	.0002
#3	.0000	.0002	-.0017	.0004	.0019	.0007

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	-.0001	.0024	.0005
Stddev	.0001	.0001	.0001	.0001	.0001	.0004
%RSD	18.61	5.536	719.7	56.27	5.695	74.16

#1	.0005	-.0011	-.0000	-.0002	.0025	.0008
#2	.0004	-.0011	-.0001	-.0001	.0025	.0006
#3	.0005	-.0010	.0001	-.0002	.0023	.0001

Sample Name: ICIS Cal Blk Acquired: 4/14/2016 11:32:40 Type: Cal
Method: sw04052016(v9) 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	.0004	-.0030	.0009	.0017
Stddev	.0000	.0003	.0001	.0004
%RSD	11.73	8.774	8.036	21.52

#1	.0004	-.0028	.0010	.0013
#2	.0003	-.0029	.0008	.0018
#3	.0004	-.0032	.0009	.0020

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	3062.0	40912.	5364.6
Stddev	15.4	428.	92.8
%RSD	.50158	1.0473	1.7305

#1	3077.2	41404.	5471.2
#2	3062.4	40711.	5321.0
#3	3046.5	40621.	5301.5

Sample Name: CAL1 Acquired: 4/14/2016 11:36:42 Type: Cal
Method: sw04052016(v9) 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	.0001	.0026	.0018	.0009	.0002
Stddev	.0002	.0001	.0002	.0001	.0001
%RSD	128.5	3.054	12.11	8.363	60.74

#1	-.0000	.0025	.0020	.0008	.0001
#2	.0001	.0027	.0016	.0009	.0003
#3	.0003	.0026	.0018	.0009	.0002

Int. Std.	Y_2243
Line	224.306 {450}
Units	Cts/S
Avg	3040.4
Stddev	16.2
%RSD	.53136

#1	3055.4
#2	3042.7
#3	3023.3

Sample Name: CAL2 Acquired: 4/14/2016 11:40:45 Type: Cal
Method: sw04052016(v9) 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	.0008	.0019	.4368	.0088	.0986
Stddev	.0003	.0002	.0000	.0014	.0001	.0006
%RSD	4.405	19.47	1.513	.3122	.7859	.5841

#1	.0075	.0008	.0019	.4378	.0088	.0983
#2	.0076	.0010	.0019	.4374	.0089	.0982
#3	.0082	.0007	.0018	.4353	.0087	.0992

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	.0121	.0592	.0015	.0122	.0013	.3418
Stddev	.0002	.0002	.0000	.0002	.0001	.0022
%RSD	1.616	.4064	2.051	1.250	5.314	.6422

#1	.0123	.0592	.0015	.0124	.0013	.3396
#2	.0121	.0593	.0015	.0121	.0013	.3440
#3	.0119	.0589	.0015	.0123	.0012	.3416

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	.0722	.0152	.9563	.0310	.0037	.0032
Stddev	.0002	.0001	.0002	.0002	.0003	.0004
%RSD	.2551	.5002	.0235	.6739	6.734	11.09

#1	.0721	.0153	.9563	.0312	.0036	.0028
#2	.0724	.0152	.9561	.0308	.0035	.0032
#3	.0722	.0153	.9566	.0308	.0040	.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	.0017	.0017	.0109	.0277	.0238	.0173
Stddev	.0001	.0000	.0000	.0001	.0004	.0001
%RSD	8.854	2.696	.2253	.2220	1.551	.6539

#1	.0018	.0017	.0109	.0277	.0239	.0173
#2	.0017	.0016	.0109	.0277	.0234	.0173
#3	.0015	.0017	.0108	.0278	.0241	.0175

Sample Name: CAL2 Acquired: 4/14/2016 11:40:45 Type: Cal
 Method: sw04052016(v9) 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	.0092	.1757	.0182
Stddev	.0001	.0007	.0000
%RSD	1.611	.3851	.1441

#1	.0091	.1765	.0182
#2	.0094	.1753	.0183
#3	.0092	.1753	.0182

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	3058.3	40689.	5355.6
Stddev	3.6	76.	18.9
%RSD	.11628	.18788	.35243

#1	3062.2	40759.	5356.7
#2	3057.4	40607.	5374.0
#3	3055.3	40700.	5336.3

Sample Name: CAL3 Acquired: 4/14/2016 11:44:45 Type: Cal
Method: sw04052016(v9) 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	.9868	.0353	.0540	4.374	.8926	.4935
Stddev	.0074	.0001	.0001	.008	.0054	.0015
%RSD	.7471	.1697	.2716	.1732	.6102	.3097

#1	.9803	.0353	.0538	4.378	.8870	.4918
#2	.9853	.0354	.0541	4.365	.8929	.4946
#3	.9948	.0354	.0541	4.378	.8979	.4941

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	.7838	.6028	.1425	.9367	.1447	.6992
Stddev	.0022	.0005	.0004	.0010	.0006	.0027
%RSD	.2860	.0791	.2578	.1096	.4183	.3825

#1	.7815	.6025	.1421	.9365	.1443	.6967
#2	.7842	.6034	.1429	.9378	.1444	.6988
#3	.7859	.6026	.1425	.9358	.1454	.7020

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	.3707	.9984	4.925	.3841	.3315	.0330
Stddev	.0022	.0023	.029	.0005	.0006	.0002
%RSD	.6024	.2285	.5815	.1293	.1862	.4730

#1	.3682	.9958	4.903	.3838	.3310	.0328
#2	.3721	.9996	4.915	.3837	.3312	.0330
#3	.3720	.9998	4.958	.3846	.3322	.0331

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	.0318	.0662	.1090	.4692	.0957	.4467
Stddev	.0003	.0004	.0001	.0026	.0001	.0003
%RSD	1.003	.5610	.0785	.5482	.0861	.0725

#1	.0322	.0663	.1089	.4663	.0958	.4466
#2	.0317	.0664	.1090	.4705	.0957	.4464
#3	.0316	.0657	.1091	.4710	.0957	.4470

Sample Name: CAL3 Acquired: 4/14/2016 11:44:45 Type: Cal
Method: sw04052016(v9) 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	.0370	8.867	1.781	.0735
Stddev	.0003	.022	.005	.0005
%RSD	.7493	.2509	.2969	.6666

#1	.0370	8.842	1.776	.0737
#2	.0373	8.878	1.781	.0739
#3	.0367	8.882	1.787	.0730

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	3032.4	40280.	5361.6
Stddev	4.1	113.	61.9
%RSD	.13616	.27961	1.1547

#1	3036.9	40389.	5394.1
#2	3031.7	40287.	5400.5
#3	3028.8	40164.	5290.3

Sample Name: CAL5 Acquired: 4/14/2016 11:52:16 Type: Cal
Method: sw04052016(v9) 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	9.682	.3551	.5458	40.44	8.363	4.735
Stddev	.035	.0014	.0017	.05	.016	.022
%RSD	.3661	.3931	.3138	.1150	.1850	.4610

#1	9.650	.3565	.5441	40.46	8.360	4.710
#2	9.720	.3537	.5459	40.39	8.379	4.749
#3	9.676	.3551	.5475	40.47	8.349	4.747

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	7.169	5.520	1.318	9.334	1.323	7.057
Stddev	.012	.008	.003	.007	.001	.011
%RSD	.1651	.1472	.2323	.0760	.0817	.1517

#1	7.178	5.526	1.316	9.331	1.322	7.044
#2	7.155	5.511	1.322	9.343	1.324	7.063
#3	7.173	5.523	1.317	9.330	1.322	7.062

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	3.635	9.100	48.64	3.465	2.993	.3262
Stddev	.017	.074	1.14	.005	.004	.0008
%RSD	.4568	.8173	2.343	.1394	.1370	.2351

#1	3.617	9.019	47.62	3.469	2.993	.3269
#2	3.641	9.164	48.43	3.460	2.989	.3254
#3	3.649	9.118	49.87	3.465	2.997	.3263

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	.3125	.5849	1.033	4.240	.9199	4.226
Stddev	.0013	.0007	.002	.009	.0021	.006
%RSD	.4060	.1181	.1450	.2111	.2330	.1453

#1	.3139	.5857	1.032	4.240	.9217	4.231
#2	.3121	.5843	1.033	4.231	.9175	4.219
#3	.3115	.5849	1.035	4.249	.9204	4.228

Sample Name: CAL5 Acquired: 4/14/2016 11:52:16 Type: Cal
Method: sw04052016(v9) 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	.3401	83.66	16.73	.7661
Stddev	.0005	2.62	.02	.0116
%RSD	.1329	3.130	.1038	1.516

#1	.3406	80.63	16.72	.7794
#2	.3397	85.20	16.75	.7609
#3	.3400	85.14	16.74	.7579

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	2765.6	37323.	5299.9
Stddev	9.2	277.	115.4
%RSD	.33170	.74098	2.1768

#1	2774.0	37625.	5432.7
#2	2767.1	37264.	5242.3
#3	2755.8	37081.	5224.6

Sample Name: icb Acquired: 4/14/2016 12:00:19 Type: QC
Method: sw04052016(v9) 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	7.087	-2.663	-.2569	.2289	.0419	.7913
Stddev	12.39	1.500	.4125	.0554	.0588	2.076
%RSD	174.8	56.33	160.6	24.23	140.4	262.3

#1	4.532	-2.726	.1943	.2540	.0622	.3652
#2	20.56	-1.132	-.6145	.1653	.0879	3.047
#3	-3.827	-4.130	-.3505	.2673	-.0244	-1.038

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	.1090	-.1770	.3381	.2626	.8445	26.86
Stddev	.0530	.2054	.1700	.4313	7.914	36.44
%RSD	48.67	116.0	50.28	164.2	937.2	135.7

#1	.0833	-.3587	.2006	.6618	5.821	17.25
#2	.1700	-.2181	.2855	.3210	4.994	67.15
#3	.0737	.0458	.5282	-.1949	-8.282	-3.815

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	1.196	.2102	18.57	.2138	-.8427	.2447
Stddev	7.249	.2156	7.80	.2665	1.974	.6879
%RSD	605.9	102.5	42.01	124.7	234.3	281.2

#1	9.069	.4525	23.46	.3022	.1571	.3761
#2	-.2779	.1387	22.68	.4248	-3.117	-.4995
#3	-5.202	.0395	9.573	-.0857	.4315	.8573

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

Sample Name: icb Acquired: 4/14/2016 12:00:19 Type: QC
Method: sw04052016(v9) 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	.7154	.8426	.2093	.0091	1.449	1.177
Stddev	1.990	2.909	.1577	.1728	.540	.546
%RSD	278.1	345.3	75.35	1891.	37.24	46.41
#1	-1.483	-2.459	.3913	-.1174	2.024	1.767
#2	2.394	3.028	.1262	.2060	.9535	1.077
#3	1.235	1.959	.1105	-.0612	1.369	.6877

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	-.3238	.2038	.2387	1.832
Stddev	.5110	.1970	.1271	4.892
%RSD	157.8	96.69	53.25	267.0
#1	.1910	.2049	.3855	-3.131
#2	-.3313	.4003	.1661	1.979
#3	-.8310	.0062	.1646	6.648

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	3045.6	40612.	5300.3
Stddev	34.6	484.	140.4
%RSD	1.1351	1.1929	2.6487
#1	3005.8	40248.	5181.4
#2	3067.5	40425.	5264.3
#3	3063.6	41162.	5455.1

Sample Name: icvl 4079378 Acquired: 4/14/2016 12:04:22 Type: QC
Method: sw04052016(v9) 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	206.9	13.21	9.877	211.4	2.012	5109.
Stddev	18.1	.66	.482	.4	.022	42.
%RSD	8.747	5.018	4.884	.1723	1.072	.8196

#1	192.7	13.81	10.25	210.9	2.035	5128.
#2	200.7	12.50	9.333	211.5	2.010	5138.
#3	227.2	13.31	10.04	211.6	1.992	5061.

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	4.089	53.46	10.52	23.97	155.4	4809.
Stddev	.036	.09	.63	.09	4.6	56.
%RSD	.8802	.1607	5.955	.3663	2.929	1.160

#1	4.127	53.55	10.54	23.91	151.6	4750.
#2	4.055	53.38	9.886	24.07	154.2	4860.
#3	4.085	53.45	11.14	23.93	160.4	4819.

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	4878.	15.94	4836.	43.54	11.37	18.17
Stddev	43.	.13	31.	.26	1.46	.85
%RSD	.8855	.7844	.6361	.6018	12.86	4.653

#1	4891.	16.08	4805.	43.84	12.81	17.77
#2	4914.	15.91	4837.	43.44	9.890	17.61
#3	4830.	15.83	4867.	43.35	11.40	19.15

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

Sample Name: icvl 4079378 Acquired: 4/14/2016 12:04:22 Type: QC
Method: sw04052016(v9) 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	19.02	22.73	51.23	31.53	50.80	19.90
Stddev	2.23	1.51	.66	.36	.50	.10
%RSD	11.73	6.654	1.282	1.139	.9777	.5060
#1	18.99	22.22	50.52	31.85	50.40	19.81
#2	16.81	24.44	51.81	31.58	50.66	20.01
#3	21.27	21.54	51.37	31.14	51.36	19.90

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	51.66	20.80	20.13	F 1.416
Stddev	.20	.14	.20	14.64
%RSD	.3910	.6604	.9874	1034.
#1	51.74	20.89	19.94	.5970
#2	51.81	20.64	20.33	-12.80
#3	51.43	20.87	20.12	16.45

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	3082.4	40820.	5402.7
Stddev	29.5	611.	106.2
%RSD	.95628	1.4980	1.9655
#1	3049.9	40480.	5421.1
#2	3107.5	40453.	5288.5
#3	3089.9	41526.	5498.4

Sample Name: CAL4 Acquired: 4/14/2016 11:48:30 Type: Cal
Method: sw04052016(v9) 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	4.891	.1764	.2681	20.85	4.326	2.394
Stddev	.016	.0009	.0006	.05	.013	.012
%RSD	.3175	.5063	.2052	.2385	.3043	.5013

#1	4.880	.1763	.2682	20.88	4.312	2.407
#2	4.885	.1773	.2676	20.87	4.330	2.383
#3	4.909	.1755	.2687	20.79	4.338	2.392

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	3.684	2.832	.6766	4.675	.6828	3.488
Stddev	.014	.003	.0025	.011	.0019	.009
%RSD	.3898	.1214	.3733	.2325	.2752	.2673

#1	3.695	2.833	.6793	4.663	.6844	3.483
#2	3.688	2.836	.6760	4.684	.6832	3.481
#3	3.668	2.829	.6744	4.678	.6807	3.498

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	1.829	4.743	25.12	1.788	1.549	.1616
Stddev	.005	.015	.15	.005	.004	.0003
%RSD	.2594	.3189	.5856	.2595	.2574	.1562

#1	1.832	4.760	25.01	1.791	1.552	.1614
#2	1.823	4.730	25.06	1.792	1.551	.1619
#3	1.831	4.739	25.29	1.783	1.545	.1615

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	.1556	.3066	.5259	2.202	.4639	2.146
Stddev	.0009	.0011	.0014	.009	.0007	.003
%RSD	.5670	.3568	.2644	.4196	.1606	.1252

#1	.1555	.3065	.5274	2.212	.4632	2.147
#2	.1566	.3078	.5247	2.201	.4647	2.148
#3	.1548	.3056	.5254	2.193	.4638	2.143

Sample Name: CAL4 Acquired: 4/14/2016 11:48:30 Type: Cal
Method: sw04052016(v9) 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	.1752	43.71	8.483	.3683
Stddev	.0003	.19	.073	.0050
%RSD	.1713	.4336	.8631	1.364

#1	.1752	43.54	8.461	.3659
#2	.1754	43.67	8.422	.3649
#3	.1748	43.92	8.564	.3741

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	2880.7	38512.	5236.0
Stddev	1.3	183.	55.3
%RSD	.04469	.47551	1.0558

#1	2880.8	38350.	5209.9
#2	2879.3	38711.	5198.6
#3	2881.9	38474.	5299.5

Sample Name: int-10a 4140672 Acquired: 4/14/2016 12:16:46 Type: QC
Method: sw04052016(v9) 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	-7.447	-8.758	.4179	10.12	3.198	-3.717
Stddev	11.17	1.735	.2366	.13	.102	9.935
%RSD	150.0	198.1	56.61	1.290	3.175	267.3

#1	5.448	-2.303	.3637	9.997	3.228	-4.768
#2	-14.26	-1.381	.6769	10.26	3.085	6.701
#3	-13.53	1.056	.2131	10.11	3.281	-13.09

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	-1.714	10380.	.4531	-1.262	-165.8	27.09
Stddev	.063	15.	.1268	.251	20.4	30.15
%RSD	3.698	.1422	27.98	19.86	12.28	111.3

#1	-1.646	10400.	.4009	-1.551	-174.9	8.933
#2	-1.772	10370.	.3608	-1.130	-142.4	61.90
#3	-1.724	10370.	.5977	-1.105	-180.0	10.44

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	12.69	-1.1484	-9.357	4.171	5.194	-28.11
Stddev	7.57	.0747	4.736	.353	.992	1.83
%RSD	59.61	50.30	50.62	8.475	19.11	6.504

#1	4.752	-.1837	-6.320	3.835	6.339	-30.16
#2	19.82	-.0627	-6.936	4.540	4.642	-26.64
#3	13.51	-.1989	-14.81	4.140	4.600	-27.53

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

Sample Name: int-10a 4140672 Acquired: 4/14/2016 12:16:46 Type: QC
Method: sw04052016(v9) 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	7.882	-13.42	F 9752.	-1.786	-7.946	-4.005
Stddev	1.903	1.03	20.	.2560	.315	.053
%RSD	24.14	7.699	.2012	143.4	3.961	1.336
#1	8.847	-13.50	9733.	-.1853	-7.590	-4.028
#2	5.690	-12.35	9750.	-.4312	-8.058	-4.043
#3	9.109	-14.41	9772.	.0807	-8.188	-3.943

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	10060.	9708.	-1.231	8703.
Stddev	10.	77.	.023	32.
%RSD	.1006	.7943	1.868	.3626
#1	10050.	9625.	-1.257	8738.
#2	10070.	9724.	-1.222	8694.
#3	10050.	9777.	-1.214	8676.

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	3051.1	40563.	5336.6
Stddev	5.9	241.	55.0
%RSD	.19492	.59452	1.0310
#1	3046.2	40690.	5399.2
#2	3057.7	40714.	5314.7
#3	3049.3	40285.	5295.9

Sample Name: int-10b 4140674 Acquired: 4/14/2016 12:20:55 Type: QC
Method: sw04052016(v9) 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	12.24	21.13	-8913	-1442	-4370	-10.64
Stddev	6.36	2.01	.6360	.0633	.0613	2.64
%RSD	51.94	9.527	71.35	43.86	14.04	24.84
#1	14.73	23.17	-.6492	-.1883	-.3672	-13.06
#2	5.013	21.06	-.4119	-.0717	-.4824	-7.819
#3	16.97	19.15	-1.613	-.1726	-.4614	-11.05

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	-.5117	.6631	9395.	8848.	-38.83	40.63
Stddev	.0791	.3357	84.	24.	7.96	38.79
%RSD	15.46	50.63	.8907	.2768	20.51	95.48
#1	-.4454	.4012	9483.	8833.	-44.15	66.02
#2	-.4904	.5465	9317.	8876.	-29.68	59.89
#3	-.5993	1.042	9384.	8834.	-42.66	-4.025

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	64.91	9326.	6.680	10030.	9.024	3.754
Stddev	1.68	133.	5.373	18.	.322	1.335
%RSD	2.594	1.423	80.43	.1825	3.565	35.57
#1	65.43	9465.	8.658	10050.	9.393	2.245
#2	66.28	9200.	.5983	10010.	8.805	4.234
#3	63.03	9314.	10.78	10030.	8.874	4.782

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

Sample Name: int-10b 4140674 Acquired: 4/14/2016 12:20:55 Type: QC
Method: sw04052016(v9) 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	-4.155	.4187	12.44	1.827	-39.77	4672.
Stddev	2.806	1.492	.68	.232	.65	10.
%RSD	67.54	356.3	5.438	12.73	1.641	.2145
#1	-.9245	-1.044	11.66	1.741	-39.23	4661.
#2	-5.986	1.938	12.80	2.090	-39.59	4675.
#3	-5.556	.3622	12.86	1.649	-40.50	4681.

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	.2612	.1601	9020.	-32.28
Stddev	.5160	.0947	12.	10.23
%RSD	197.5	59.15	.1370	31.68
#1	.8267	.2686	9033.	-30.29
#2	-.1841	.0942	9019.	-23.19
#3	.1411	.1174	9008.	-43.35

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	3039.8	41181.	5404.3
Stddev	15.9	512.	75.1
%RSD	.52312	1.2442	1.3894
#1	3022.0	40635.	5408.1
#2	3052.7	41652.	5327.4
#3	3044.8	41257.	5477.5

Sample Name: 460-111956-A-1-B@20 Acquired: 4/14/2016 12:29:05 Type: Unk
Method: sw04052016(v9) 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	7.004	-1.022	-.1909	7.587	.0321	3821.
Stddev	.992	1.302	.3664	.051	.0505	7.
%RSD	14.16	127.4	191.9	.6788	157.0	.1778
#1	6.514	-.9624	.0858	7.645	.0876	3814.
#2	8.146	-2.352	-.0521	7.547	-.0111	3828.
#3	6.354	.2495	-.6063	7.569	.0199	3822.

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	.0055	.1287	.0684	-.0106	109.9	2253.
Stddev	.2232	.0860	.4224	.1910	8.8	24.
%RSD	4041.	66.81	617.1	1797.	7.996	1.064
#1	.1936	.0330	.3931	.0643	113.6	2228.
#2	-.2412	.1994	.2214	-.2278	116.3	2257.
#3	.0642	.1535	-.4091	.1315	99.90	2275.

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	580.0	34.06	51590.	.7926	.5052	-.7405
Stddev	3.6	.22	253.	.3412	1.302	.8640
%RSD	.6225	.6479	.4902	43.05	257.6	116.7
#1	581.7	33.81	51870.	.8977	-.3246	.2183
#2	575.9	34.24	51530.	.4112	2.005	-.9811
#3	582.5	34.13	51370.	1.069	-.1651	-1.459

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

Sample Name: 460-111956-A-1-B@20 Acquired: 4/14/2016 12:29:05 Type: Unk
Method: sw04052016(v9) 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	-.0115	.0072	1.324	5.975	.2568
Stddev	3.050	.8527	.2253	.275	.171	.2340
%RSD	260.0	7384.	3140.	20.73	2.866	91.13
#1	2.481	.8249	.2443	1.628	5.785	.4638
#2	-2.313	.0200	-.2039	1.093	6.117	.0028
#3	3.350	-.8796	-.0189	1.251	6.024	.3038

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	.0401	34.67	.1014	213.5
Stddev	.4053	.20	.1421	4.3
%RSD	1011.	.5839	140.1	2.026
#1	-.3600	34.68	-.0518	210.2
#2	.0299	34.47	.1273	211.9
#3	.4504	34.87	.2288	218.4

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	2972.4	39641.	5228.5
Stddev	51.1	183.	121.4
%RSD	1.7196	.46220	2.3223
#1	2996.8	39508.	5158.1
#2	3006.7	39566.	5158.7
#3	2913.6	39850.	5368.7

Sample Name: icv 4237635 Acquired: 4/14/2016 11:56:38 Type: QC
Method: sw04052016(v9) 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	122700.	2440.	1228.	10060.	992.4	125400.
Stddev	299.	4.	1.	17.	2.5	313.
%RSD	.2441	.1629	.0952	.1704	.2523	.2500

#1	122400.	2441.	1227.	10050.	989.7	125100.
#2	123000.	2436.	1229.	10070.	994.6	125700.
#3	122700.	2444.	1228.	10080.	992.9	125300.

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.	2506.	5017.	12350.	100100.	49150.
Stddev	2.	3.	8.	6.	303.	136.
%RSD	.1212	.1080	.1500	.0447	.3024	.2772

#1	1249.	2503.	5015.	12350.	100000.	49000.
#2	1251.	2506.	5026.	12350.	100400.	49260.
#3	1252.	2508.	5011.	12360.	99840.	49190.

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	124500.	5078.	123200.	2520.	7506.	978.9
Stddev	229.	10.	533.	6.	11.	6.3
%RSD	.1841	.2061	.4326	.2412	.1514	.6439

#1	124200.	5067.	122800.	2513.	7500.	974.0
#2	124600.	5087.	123800.	2520.	7498.	976.7
#3	124600.	5079.	123000.	2526.	7519.	986.0

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

Sample Name: icv 4237635 Acquired: 4/14/2016 11:56:38 Type: QC
Method: sw04052016(v9) 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	2455.	2545.	2498.	2511.	995.4	2495.
Stddev	4.	4.	4.	4.	4.4	4.
%RSD	.1750	.1741	.1791	.1722	.4377	.1565

#1	2455.	2541.	2493.	2516.	991.9	2491.
#2	2450.	2550.	2500.	2510.	994.2	2496.
#3	2459.	2543.	2501.	2507.	1000.	2499.

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	1003.	5031.	10070.	9673.
Stddev	2.	13.	54.	69.
%RSD	.2113	.2535	.5405	.7153

#1	1002.	5017.	10090.	9625.
#2	1006.	5041.	10100.	9752.
#3	1002.	5035.	10000.	9641.

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	2864.1	38209.	5230.3
Stddev	3.0	62.	23.1
%RSD	.10559	.16205	.44215

#1	2867.0	38273.	5256.6
#2	2860.9	38150.	5221.0
#3	2864.4	38204.	5213.2

Sample Name: sd 460-111956-A-1-B Acquired: 4/14/2016 12:33:06 Type: Unk
Method: sw04052016(v9) 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	-1.860	-.3315	.0332	1.411	-.0604	748.8
Stddev	11.76	1.654	.6513	.058	.0741	3.5
%RSD	632.3	498.7	1960.	4.128	122.7	.4714
#1	7.321	.5060	-.3383	1.350	-.1415	744.8
#2	-15.12	.7356	.7852	1.416	.0038	751.5
#3	2.216	-2.236	-.3473	1.466	-.0436	750.0

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	-.0614	-.0859	.3281	-.5480	15.41	428.7
Stddev	.0360	.1302	.5303	.0819	4.52	5.5
%RSD	58.60	151.5	161.6	14.94	29.35	1.274
#1	-.0223	-.0088	.2645	-.4805	10.93	435.0
#2	-.0931	-.2362	-.1675	-.6391	15.33	426.2
#3	-.0687	-.0128	.8874	-.5246	19.97	424.9

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	109.7	6.718	9757.	.1531	-1.062	-.1261
Stddev	5.9	.137	29.	.7041	1.317	1.727
%RSD	5.384	2.036	.2995	459.9	124.0	1370.
#1	110.6	6.875	9791.	-.1360	-.4757	-1.974
#2	115.0	6.646	9742.	-.3604	-.1400	.1488
#3	103.3	6.632	9739.	.9557	-2.571	1.447

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

Sample Name: sd 460-111956-A-1-B Acquired: 4/14/2016 12:33:06 Type: Unk
Method: sw04052016(v9) 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	.6464	.2897	-.0279	.7124	.4284	-.2860
Stddev	1.517	1.610	.0246	.1074	.3172	.0678
%RSD	234.7	555.6	88.01	15.08	74.04	23.72
#1	2.395	-1.140	-.0189	.5911	.4765	-.3111
#2	-.1314	-.0242	-.0557	.7502	.7188	-.3377
#3	-.3240	2.033	-.0091	.7957	.0899	-.2092

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	.6803	6.621	-.3842	33.65
Stddev	.5222	.040	.0294	7.85
%RSD	76.76	.6098	7.645	23.33
#1	1.003	6.640	-.4075	39.14
#2	.0779	6.648	-.3939	24.66
#3	.9603	6.574	-.3512	37.14

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	2954.0	38887.	5028.2
Stddev	13.8	108.	38.8
%RSD	.46852	.27895	.77143
#1	2961.3	38908.	4986.3
#2	2938.1	38983.	5062.8
#3	2962.8	38769.	5035.4

Sample Name: icsa 4305090 Acquired: 4/14/2016 12:08:23 Type: QC
Method: sw04052016(v9) 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	488700.	-.1049	.8604	-2.363	-.0854	495300.
Stddev	1748.	3.736	.4788	.278	.1080	4065.
%RSD	.3577	3561.	55.65	11.76	126.5	.8207
#1	489600.	2.455	.4745	-2.149	-.1329	491100.
#2	489800.	-4.391	1.396	-2.263	.0382	499300.
#3	486600.	1.622	.7105	-2.677	-.1616	495500.

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	.7497	-3.715	-1.799	-4.861	191100.	-69.38
Stddev	.2577	.441	.093	.262	219.	24.09
%RSD	34.37	11.87	5.166	5.393	.1145	34.72
#1	.9469	-4.204	-1.833	-4.719	190900.	-82.21
#2	.8440	-3.596	-1.694	-5.164	191300.	-41.59
#3	.4582	-3.346	-1.870	-4.701	191000.	-84.33

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	493100.	3.305	-41.02	-.2281	3.051	3.210
Stddev	2941.	.078	11.59	.5111	1.222	1.558
%RSD	.5964	2.365	28.25	224.1	40.05	48.53
#1	489900.	3.233	-54.39	-.5821	3.310	4.925
#2	495700.	3.388	-33.87	.3579	4.123	2.824
#3	493600.	3.294	-34.80	-.4600	1.720	1.881

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

Sample Name: icsa 4305090 Acquired: 4/14/2016 12:08:23 Type: QC
Method: sw04052016(v9) 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	2.033	-7.517	-21.51	-3.158	-8.709	-6.889
Stddev	3.689	1.936	.29	.305	.617	.3375
%RSD	181.5	257.5	1.365	9.656	7.088	48.99
#1	-1.567	-7.557	-21.62	-3.500	-8.019	-4.502
#2	1.861	-2.686	-21.17	-3.058	-9.207	-.5414
#3	5.806	1.186	-21.73	-2.915	-8.902	-1.075
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	3.759	-1.575	-1.523	10.43
Stddev	1.576	.056	.053	10.20
%RSD	41.93	3.575	3.452	97.76
#1	1.939	-1.573	-1.573	.8417
#2	4.668	-1.632	-1.528	9.310
#3	4.671	-1.519	-1.468	21.15
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	2788.2	36440.	5244.5
Stddev	5.9	254.	48.4
%RSD	.21127	.69722	.92266
#1	2794.8	36733.	5299.9
#2	2783.5	36304.	5222.9
#3	2786.4	36282.	5210.6

Sample Name: 460-111961-B-3-F@5 Acquired: 4/14/2016 12:44:52 Type: Unk
Method: sw04052016(v9) 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	245.7	1.778	-.2601	135.1	.1334	31240.
Stddev	7.6	2.725	.2380	.2	.0465	158.
%RSD	3.102	153.3	91.52	.1610	34.88	.5053

#1	237.9	4.328	-.0335	134.9	.1865	31420.
#2	245.9	-1.094	-.2386	135.2	.1000	31110.
#3	253.2	2.101	-.5080	135.4	.1136	31200.

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	.5185	3.038	.9889	15.47	176.7	861.4
Stddev	.0322	.113	.1560	.23	15.9	18.4
%RSD	6.208	3.713	15.77	1.467	8.971	2.132

#1	.5439	2.916	1.082	15.32	182.3	856.6
#2	.4823	3.139	1.076	15.73	189.0	881.7
#3	.5294	3.058	.8089	15.35	158.8	846.0

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	5183.	684.9	F 301300.	8.811	9.041	.6456
Stddev	17.	2.2	3415.	.371	.728	1.329
%RSD	.3312	.3227	1.133	4.213	8.057	205.9

#1	5201.	686.7	297500.	9.169	9.470	.9473
#2	5167.	682.4	304100.	8.834	8.200	-.8083
#3	5180.	685.5	302300.	8.428	9.454	1.798

Check ?	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass
High Limit			250000.			
Low Limit			-5000.			

Sample Name: 460-111961-B-3-F@5 Acquired: 4/14/2016 12:44:52 Type: Unk
Method: sw04052016(v9) 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	4.255	-.0654	1.431	328.4	18.17	-.2765
Stddev	1.520	.8348	.255	1.3	.42	.1697
%RSD	35.71	1277.	17.85	.4072	2.335	61.36
#1	3.680	.8146	1.478	327.0	17.68	-.1413
#2	5.978	-.1646	1.660	328.7	18.48	-.2213
#3	3.107	-.8461	1.156	329.6	18.33	-.4669

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	-.1021	101.3	6.023	1047.
Stddev	.0398	.1	.215	23.
%RSD	38.98	.0885	3.572	2.188
#1	-.0621	101.4	6.194	1021.
#2	-.1417	101.3	6.093	1064.
#3	-.1025	101.2	5.781	1056.

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	2851.0	37200.	5072.9
Stddev	14.2	448.	94.9
%RSD	.49776	1.2049	1.8704
#1	2866.1	36710.	4986.5
#2	2848.9	37588.	5174.5
#3	2837.9	37304.	5057.8

Sample Name: CCVL Acquired: 4/14/2016 12:56:54 Type: QC
Method: sw04052016(v9) 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	192.8	14.83	9.315	214.5	1.907	5215.
Stddev	7.6	2.52	.661	.7	.071	6.
%RSD	3.957	17.00	7.094	.3203	3.705	.1129

#1	184.0	17.29	9.832	214.0	1.904	5212.
#2	198.2	14.93	8.570	215.3	1.980	5221.
#3	196.1	12.26	9.542	214.2	1.839	5210.

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	4.259	54.09	10.89	24.19	154.3	4817.
Stddev	.073	.10	.73	.39	5.3	15.
%RSD	1.711	.1778	6.708	1.613	3.413	.3173

#1	4.219	53.99	10.09	24.12	152.8	4804.
#2	4.343	54.10	11.52	23.83	160.2	4834.
#3	4.215	54.19	11.05	24.61	150.0	4813.

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	4908.	16.31	4720.	43.96	10.44	18.78
Stddev	17.	.03	10.	.17	1.67	.27
%RSD	.3460	.1577	.2190	.3914	16.01	1.440

#1	4919.	16.30	4727.	43.91	12.33	18.95
#2	4916.	16.34	4708.	43.82	9.174	18.46
#3	4888.	16.30	4724.	44.15	9.814	18.91

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

Sample Name: CCVL Acquired: 4/14/2016 12:56:54 Type: QC
Method: sw04052016(v9) 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	21.89	23.07	51.80	32.11	50.24	20.40
Stddev	3.51	1.61	.27	.13	.17	.21
%RSD	16.01	6.965	.5232	.4132	.3306	1.051

#1	24.29	22.47	51.72	32.25	50.14	20.16
#2	23.52	24.89	52.10	31.98	50.15	20.45
#3	17.87	21.85	51.58	32.11	50.44	20.58

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	51.89	20.47	20.16	F -5.735
Stddev	.54	.20	.03	8.404
%RSD	1.046	1.001	.1607	146.5

#1	51.38	20.55	20.14	1.051
#2	52.46	20.24	20.19	-3.120
#3	51.82	20.63	20.13	-15.13

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	3006.3	39713.	5258.9
Stddev	23.3	202.	83.3
%RSD	.77600	.50912	1.5842

#1	2979.9	39546.	5277.1
#2	3024.0	39655.	5168.0
#3	3015.0	39937.	5331.6

Sample Name: LCS 460-362293/2-A Acquired: 4/14/2016 13:05:01 Type: QC
Method: sw04052016(v9) 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	1855.	1832.	44.93	1968.	48.02	19110.
Stddev	17.	11.	.16	5.	.42	53.
%RSD	.9198	.6216	.3513	.2754	.8810	.2782

#1	1856.	1845.	44.77	1974.	48.30	19140.
#2	1871.	1829.	44.93	1964.	48.23	19130.
#3	1837.	1823.	45.09	1966.	47.54	19050.

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	49.43	493.3	203.6	230.1	964.3	17060.
Stddev	.29	1.3	1.0	.6	9.8	94.
%RSD	.5845	.2695	.5153	.2684	1.012	.5485

#1	49.74	494.8	204.6	229.7	973.8	17110.
#2	49.17	492.5	203.8	230.8	954.3	17120.
#3	49.38	492.6	202.5	229.7	964.8	16950.

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	18120.	497.6	18190.	510.5	490.7	445.8
Stddev	49.	1.1	120.	1.7	4.4	.6
%RSD	.2693	.2269	.6574	.3326	.8899	.1295

#1	18160.	498.3	18200.	512.1	495.3	446.4
#2	18130.	498.1	18300.	508.7	490.5	445.7
#3	18060.	496.3	18060.	510.7	486.5	445.3

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

Sample Name: LCS 460-362293/2-A Acquired: 4/14/2016 13:05:01 Type: QC
Method: sw04052016(v9) 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	1864.	2073.	487.7	499.7	479.1	480.6
Stddev	2.	13.	.9	1.2	1.1	.4
%RSD	.1148	.6125	.1782	.2472	.2249	.0807
#1	1862.	2087.	488.5	500.7	480.3	481.0
#2	1865.	2070.	487.8	500.1	479.1	480.2
#3	1865.	2062.	486.7	498.3	478.1	480.6

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	497.4	475.3	482.4	18.75
Stddev	.4	1.4	1.2	12.33
%RSD	.0752	.2913	.2409	65.76
#1	497.6	476.2	483.6	11.83
#2	497.6	476.0	482.5	11.44
#3	497.0	473.7	481.2	32.99

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	2974.6	39396.	5175.4
Stddev	1.0	105.	35.9
%RSD	.03194	.26752	.69426
#1	2973.6	39279.	5154.7
#2	2975.4	39425.	5154.6
#3	2974.9	39483.	5216.9

Sample Name: 460-110136-F-2-B Acquired: 4/14/2016 13:12:46 Type: Unk
Method: sw04052016(v9) 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	38.81	-2.001	-.5923	72.72	.1598	13130.
Stddev	7.82	1.174	.2263	.16	.0559	26.
%RSD	20.15	58.65	38.21	.2158	34.97	.1990
#1	46.22	-2.132	-.8028	72.59	.0959	13100.
#2	30.63	-3.104	-.6210	72.89	.1842	13130.
#3	39.59	-.7677	-.3529	72.67	.1994	13160.

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	.0897	-.0486	7.701	-.2810	1.871	6548.
Stddev	.0494	.1911	.029	.1844	11.71	30.
%RSD	55.01	392.8	.3808	65.61	625.7	.4592
#1	.0959	-.1993	7.678	-.0826	12.95	6564.
#2	.1357	.1663	7.734	-.4470	3.033	6514.
#3	.0376	-.1129	7.690	-.3135	-10.37	6568.

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	2584.	124.6	40560.	3.066	2.187	-.2354
Stddev	8.	.1	55.	.475	.212	.6593
%RSD	.3276	.0881	.1368	15.49	9.693	280.0
#1	2581.	124.5	40620.	3.326	2.115	-.9910
#2	2578.	124.6	40540.	2.518	2.426	.0616
#3	2594.	124.7	40510.	3.355	2.021	.2231

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

Sample Name: 460-110136-F-2-B Acquired: 4/14/2016 13:12:46 Type: Unk
Method: sw04052016(v9) 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	.6414	-.7628	.0907	17.13	32.05	-.6753
Stddev	1.552	1.362	.4495	.15	.65	.0370
%RSD	242.0	178.6	495.8	.8580	2.020	5.482
#1	-1.143	.6315	-.2740	17.03	32.18	-.6341
#2	1.681	-2.091	.5928	17.06	32.63	-.7059
#3	1.386	-.8289	-.0469	17.30	31.35	-.6857

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	.4679	61.47	.3957	5135.
Stddev	.3516	.15	.1657	33.
%RSD	75.14	.2361	41.89	.6455
#1	.8257	61.52	.5843	5133.
#2	.4551	61.30	.3295	5103.
#3	.1229	61.57	.2732	5170.

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	2960.5	38910.	5138.2
Stddev	2.5	186.	8.1
%RSD	.08594	.47691	.15713
#1	2963.3	39123.	5147.5
#2	2959.8	38791.	5133.1
#3	2958.4	38815.	5134.1

Sample Name: 460-110136-F-2-D MS Acquired: 4/14/2016 13:20:53 Type: Unk
Method: sw04052016(v9) 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.	1894.	46.23	2084.	49.41	33100.
Stddev	8.	6.	.42	3.	.13	141.
%RSD	.4225	.3038	.9029	.1315	.2636	.4269
#1	1920.	1897.	45.80	2087.	49.30	33120.
#2	1911.	1898.	46.63	2082.	49.55	33220.
#3	1927.	1888.	46.26	2082.	49.39	32950.

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	50.18	504.6	216.2	237.2	1003.	24090.
Stddev	.12	.4	1.2	2.0	5.	111.
%RSD	.2487	.0703	.5512	.8269	.4613	.4587
#1	50.26	504.7	214.9	235.6	1004.	24100.
#2	50.04	505.0	216.3	236.5	998.2	24200.
#3	50.25	504.3	217.3	239.4	1007.	23980.

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	21220.	635.4	59870.	522.3	503.5	458.1
Stddev	56.	1.6	302.	1.0	1.0	.7
%RSD	.2648	.2465	.5041	.1874	.1955	.1435
#1	21270.	636.0	59690.	522.9	503.2	458.7
#2	21240.	636.6	60220.	521.2	502.7	457.4
#3	21160.	633.6	59700.	522.9	504.6	458.3

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

Sample Name: 460-110136-F-2-D MS Acquired: 4/14/2016 13:20:53 Type: Unk
Method: sw04052016(v9) 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	1903.	2090.	502.8	530.3	521.1	493.0
Stddev	9.	4.	1.8	.9	2.8	.5
%RSD	.4756	.2005	.3496	.1791	.5298	.1083
#1	1902.	2086.	500.9	529.3	520.0	492.9
#2	1912.	2091.	503.3	530.3	524.2	493.6
#3	1894.	2094.	504.3	531.2	519.0	492.6

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	509.4	546.1	497.2	5447.
Stddev	1.1	1.9	.4	68.
%RSD	.2157	.3531	.0820	1.257
#1	509.5	545.8	497.4	5391.
#2	510.4	548.2	497.5	5426.
#3	508.2	544.3	496.7	5524.

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	2902.5	38226.	5101.6
Stddev	10.8	121.	44.2
%RSD	.37283	.31552	.86596
#1	2908.5	38146.	5093.7
#2	2909.0	38168.	5061.8
#3	2890.0	38365.	5149.1

Sample Name: 460-110136-F-1-B Acquired: 4/14/2016 13:28:21 Type: Unk
Method: sw04052016(v9) 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	21.33	-1.995	-.2513	56.31	-.0031	13680.
Stddev	7.96	1.602	.5152	.21	.0361	29.
%RSD	37.32	80.34	205.0	.3659	1173.	.2102
#1	27.95	-2.349	-.7505	56.48	-.0166	13690.
#2	23.54	-.2445	-.2820	56.37	.0378	13650.
#3	12.50	-3.390	.2785	56.08	-.0305	13710.

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	.1744	-.1175	5.613	-.0478	-.1391	7507.
Stddev	.1275	.2134	.212	.2478	6.561	15.
%RSD	73.07	181.7	3.772	518.6	4715.	.2051
#1	.2522	-.3129	5.688	-.3223	-7.452	7525.
#2	.2438	-.1497	5.777	.0195	1.805	7497.
#3	.0273	.1103	5.374	.1595	5.229	7500.

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	2919.	172.0	31900.	33.07	3.471	.1062
Stddev	21.	.6	180.	.19	.812	.6349
%RSD	.7293	.3728	.5628	.5767	23.40	597.8
#1	2909.	171.4	32100.	32.86	3.177	-.1805
#2	2904.	171.9	31800.	33.11	2.848	-.3348
#3	2944.	172.7	31790.	33.24	4.390	.8338

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

Sample Name: 460-110136-F-1-B Acquired: 4/14/2016 13:28:21 Type: Unk
Method: sw04052016(v9) 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	.4969	-.9434	.0637	15.84	23.42	-.5502
Stddev	3.062	2.246	.5744	.08	.35	.1411
%RSD	616.4	238.1	901.8	.5107	1.515	25.65
#1	4.031	.9692	.3527	15.89	23.82	-.6214
#2	-1.376	-.3831	.4362	15.74	23.16	-.3877
#3	-1.165	-3.416	-.5978	15.88	23.27	-.6415

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	.0171	89.20	.4201	7863.
Stddev	.6458	.11	.2084	82.
%RSD	3776.	.1229	49.61	1.042
#1	.3655	89.10	.4252	7807.
#2	-.7281	89.19	.2091	7957.
#3	.4139	89.32	.6258	7825.

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	2948.8	39020.	5201.1
Stddev	6.6	177.	50.6
%RSD	.22309	.45240	.97363
#1	2956.0	38983.	5167.1
#2	2943.1	39213.	5259.3
#3	2947.2	38866.	5176.9

Sample Name: 460-110136-F-4-B Acquired: 4/14/2016 13:36:25 Type: Unk

Method: sw04052016(v9) 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	34.89	-1.148	.0621	69.90	-.0226	17530.
Stddev	5.58	1.836	.1835	.13	.0622	115.
%RSD	16.00	159.9	295.3	.1925	274.8	.6533

#1	40.62	-3.144	.0550	69.75	-.0814	17420.
#2	29.48	.4689	.2491	69.97	.0425	17520.
#3	34.56	-.7689	-.1176	69.98	-.0290	17650.

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	.1986	.0072	33.16	-.2826	-6.914	4814.
Stddev	.0437	.3191	.33	.0760	2.660	18.
%RSD	22.01	4421.	.9849	26.90	38.48	.3713

#1	.1673	-.2145	33.29	-.2742	-7.779	4798.
#2	.2486	-.1367	32.79	-.3624	-3.929	4810.
#3	.1800	.3729	33.40	-.2111	-9.034	4833.

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	4404.	194.1	35450.	7.696	1.364	.1159
Stddev	40.	.7	148.	.465	2.694	.2149
%RSD	.9165	.3438	.4170	6.037	197.5	185.3

#1	4358.	193.4	35500.	8.206	-1.705	.3521
#2	4417.	194.1	35570.	7.584	2.455	.0638
#3	4435.	194.7	35280.	7.297	3.342	-.0680

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

Sample Name: 460-110136-F-4-B Acquired: 4/14/2016 13:36:25 Type: Unk
Method: sw04052016(v9) 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	-2.086	-1.078	.0221	14.02	38.97	-.6302
Stddev	3.587	1.188	.2398	.15	.61	.1127
%RSD	172.0	110.2	1084.	1.050	1.567	17.89
#1	.7132	-.0705	-.0974	13.86	39.39	-.5907
#2	-6.129	-2.388	-.1344	14.14	39.25	-.7574
#3	-.8408	-.7756	.2982	14.05	38.27	-.5427

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	.1056	95.56	.6252	4851.
Stddev	.4655	.16	.1875	106.
%RSD	441.0	.1693	29.99	2.190
#1	-.2693	95.74	.4386	4968.
#2	-.0407	95.50	.8135	4824.
#3	.6266	95.44	.6234	4761.

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	2937.0	38965.	5186.0
Stddev	2.8	299.	96.9
%RSD	.09423	.76715	1.8688
#1	2939.5	39289.	5288.3
#2	2937.5	38906.	5174.1
#3	2934.0	38700.	5095.5

Sample Name: icsab 4305092 Acquired: 4/14/2016 12:12:40 Type: QC
Method: sw04052016(v9) 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	519200.	98.82	108.5	101.8	100.6	529400.
Stddev	404.	2.13	.2	.5	.1	1647.
%RSD	.0777	2.158	.1692	.4457	.1446	.3111

#1	518900.	99.06	108.6	101.7	100.5	529500.
#2	519100.	96.58	108.3	101.5	100.7	527700.
#3	519700.	100.8	108.5	102.3	100.7	531000.

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	98.21	94.67	102.1	105.0	203200.	10350.
Stddev	.57	.26	.9	.2	299.	20.
%RSD	.5830	.2788	.9289	.2321	.1471	.1891

#1	97.64	94.39	102.4	105.2	203400.	10370.
#2	98.22	94.92	101.1	104.8	202800.	10330.
#3	98.78	94.71	102.9	105.1	203300.	10340.

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	523100.	108.4	10350.	97.20	97.12	98.42
Stddev	1757.	.5	22.	.72	1.52	3.12
%RSD	.3358	.4906	.2080	.7368	1.564	3.173

#1	524700.	109.0	10330.	96.91	98.32	94.81
#2	523300.	107.9	10340.	96.67	95.41	100.3
#3	521200.	108.4	10370.	98.02	97.62	100.1

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

Sample Name: icsab 4305092 Acquired: 4/14/2016 12:12:40 Type: QC
Method: sw04052016(v9) 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	104.4	96.82	80.70	93.50	91.94	97.16
Stddev	8.0	4.97	.43	.41	.66	.44
%RSD	7.659	5.130	.5351	.4439	.7153	.4541
#1	109.5	91.87	80.41	93.57	92.43	96.67
#2	108.6	96.80	81.20	93.88	91.19	97.30
#3	95.19	101.8	80.50	93.06	92.21	97.52

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	102.8	101.6	103.6	42.17
Stddev	1.2	.1	.3	5.97
%RSD	1.180	.1264	.2890	14.15
#1	101.5	101.6	104.0	48.65
#2	103.4	101.4	103.5	40.98
#3	103.7	101.7	103.4	36.89

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	2782.3	36098.	5173.6
Stddev	7.9	119.	57.1
%RSD	.28266	.33012	1.1036
#1	2776.1	35970.	5198.3
#2	2791.1	36206.	5108.3
#3	2779.6	36119.	5214.2

Sample Name: 460-110136-F-5-B Acquired: 4/14/2016 13:52:28 Type: Unk
Method: sw04052016(v9) 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	273.1	.8977	.5495	1.548	.0559	1507.
Stddev	4.6	1.920	.2356	.265	.0844	14.
%RSD	1.675	213.9	42.87	17.10	151.0	.9581

#1	278.1	-1.199	.2808	1.773	-.0142	1492.
#2	269.0	1.322	.6478	1.615	.0324	1520.
#3	272.3	2.570	.7201	1.257	.1496	1508.

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	-.0891	.4097	.8955	1.850	274.4	447.3
Stddev	.0791	.1293	.1550	.131	2.6	16.7
%RSD	88.72	31.55	17.31	7.104	.9539	3.722

#1	-.1324	.5531	1.071	1.977	271.5	431.7
#2	.0021	.3020	.7766	1.858	275.2	464.8
#3	-.1371	.3740	.8391	1.715	276.6	445.3

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	479.7	16.42	3881.	1.338	3.967	-.4366
Stddev	7.1	.19	12.	.189	.726	.2362
%RSD	1.486	1.161	.3211	14.14	18.31	54.10

#1	471.6	16.21	3890.	1.215	3.136	-.1685
#2	482.2	16.58	3867.	1.556	4.287	-.5274
#3	485.1	16.46	3887.	1.243	4.479	-.6138

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

Sample Name: 460-110136-F-5-B Acquired: 4/14/2016 13:52:28 Type: Unk
Method: sw04052016(v9) 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	2.606	-.9581	1.102	8.475	13.03	-.5756
Stddev	2.159	1.364	.426	.170	.37	.1677
%RSD	82.85	142.3	38.65	2.002	2.838	29.14
#1	4.865	-2.270	1.497	8.292	13.43	-.4045
#2	2.391	.4519	1.157	8.628	12.70	-.5827
#3	.5627	-1.056	.6508	8.506	12.95	-.7397

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	.5690	6.439	70.93	4165.
Stddev	.6511	.033	.46	6.
%RSD	114.4	.5074	.6550	.1390
#1	-.1826	6.461	70.40	4161.
#2	.9294	6.455	71.22	4171.
#3	.9603	6.402	71.18	4163.

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	2993.9	40320.	5394.0
Stddev	3.2	256.	54.9
%RSD	.10607	.63516	1.0169
#1	2995.3	40614.	5415.6
#2	2990.2	40140.	5434.8
#3	2996.1	40208.	5331.7

Sample Name: 460-111956-A-1-C DU Acquired: 4/14/2016 12:25:02 Type: Unk
Method: sw04052016(v9) 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	6.068	.6547	-.1880	7.665	-.0194	3835.
Stddev	13.73	2.825	.4440	.075	.0767	24.
%RSD	226.2	431.4	236.2	.9761	396.1	.6276
#1	-6.592	3.237	.2210	7.581	.0555	3810.
#2	4.140	-2.362	-.6602	7.726	-.0158	3838.
#3	20.66	1.089	-.1246	7.687	-.0978	3858.

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	-.0152	-.1634	.5998	.4368	113.0	2294.
Stddev	.0361	.3549	.8262	.8707	3.2	12.
%RSD	237.5	217.2	137.8	199.3	2.837	.5058
#1	-.0541	-.4248	1.399	1.422	109.8	2293.
#2	-.0086	.2406	-.2508	.1180	116.2	2306.
#3	.0171	-.3061	.6509	-.2296	112.9	2283.

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	589.9	34.80	52240.	1.589	-.4585	-.0813
Stddev	1.6	.61	277.	.316	1.199	1.481
%RSD	.2652	1.767	.5303	19.86	261.5	1821.
#1	590.5	35.50	51920.	1.951	-.5751	-1.523
#2	591.1	34.49	52410.	1.448	-1.595	1.436
#3	588.2	34.39	52380.	1.369	.7944	-.1567

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

Sample Name: 460-111956-A-1-C DU Acquired: 4/14/2016 12:25:02 Type: Unk
Method: sw04052016(v9) 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	.1308	.5313	.3763	1.473	5.908	2.870
Stddev	3.413	1.391	.2841	.143	.168	1.231
%RSD	2610.	261.8	75.49	9.732	2.839	42.90
#1	-3.420	2.135	.6338	1.577	5.723	4.213
#2	3.387	-.3555	.0715	1.532	5.948	2.602
#3	.4252	-.1853	.4236	1.309	6.051	1.795

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	.5709	35.06	.7939	211.6
Stddev	.6745	.07	.8936	.3
%RSD	118.1	.1878	112.6	.1467
#1	-.1154	34.98	1.823	211.6
#2	1.233	35.11	.3435	211.3
#3	.5954	35.07	.2150	211.9

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	3013.4	39843.	5318.3
Stddev	5.3	231.	74.0
%RSD	.17529	.57863	1.3908
#1	3019.5	40107.	5401.3
#2	3010.7	39744.	5259.3
#3	3010.0	39678.	5294.4

Sample Name: 460-111956-A-1-D MS Acquired: 4/14/2016 12:37:10 Type: Unk
Method: sw04052016(v9) 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	211.3	482.9	21.77	496.9	46.23	1316.
Stddev	7.5	1.0	.79	1.7	.16	5.
%RSD	3.536	.2080	3.628	.3410	.3418	.3510
#1	215.7	481.9	22.30	496.8	46.38	1313.
#2	202.7	483.9	20.86	498.6	46.24	1314.
#3	215.6	482.9	22.13	495.2	46.06	1321.

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	49.86	56.56	242.8	47.81	79.48	942.4
Stddev	.07	.26	.7	.34	4.61	11.9
%RSD	.1476	.4659	.2751	.7110	5.798	1.258
#1	49.82	56.66	242.3	48.11	80.89	933.4
#2	49.82	56.75	242.6	47.87	74.33	955.8
#3	49.95	56.26	243.6	47.44	83.22	938.0

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	1014.	52.62	65580.	119.0	240.3	137.5
Stddev	2.	.33	455.	.8	1.3	1.2
%RSD	.1812	.6278	.6943	.6463	.5591	.8940
#1	1013.	52.30	66090.	119.2	241.8	138.9
#2	1012.	52.58	65440.	119.6	239.9	137.0
#3	1016.	52.96	65210.	118.1	239.2	136.6

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

Sample Name: 460-111956-A-1-D MS Acquired: 4/14/2016 12:37:10 Type: Unk
Method: sw04052016(v9) 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	48.30	52.23	52.55	53.48	50.66	49.57
Stddev	2.61	2.17	.37	.36	.98	.12
%RSD	5.411	4.156	.6956	.6764	1.931	.2448
#1	50.62	53.74	52.47	53.07	51.74	49.69
#2	45.47	49.74	52.95	53.59	49.82	49.58
#3	48.80	53.20	52.23	53.77	50.44	49.45

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	47.46	10.37	48.59	613.5
Stddev	.48	.28	.16	7.8
%RSD	1.016	2.735	.3220	1.277
#1	46.91	10.57	48.43	621.7
#2	47.82	10.50	48.74	606.1
#3	47.64	10.04	48.60	612.8

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	2941.9	38716.	5176.8
Stddev	16.7	267.	54.0
%RSD	.56751	.68929	1.0436
#1	2943.2	38984.	5228.6
#2	2924.5	38713.	5181.1
#3	2957.8	38451.	5120.8

Sample Name: pds 460-111956-A-1-B Acquired: 4/14/2016 12:41:09 Type: Unk
Method: sw04052016(v9) 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	1798.	1780.	43.93	1899.	46.68	22310.
Stddev	12.	6.	.49	7.	.13	42.
%RSD	.6830	.3385	1.112	.3528	.2887	.1868

#1	1796.	1774.	44.49	1893.	46.82	22350.
#2	1787.	1781.	43.68	1898.	46.66	22270.
#3	1811.	1786.	43.61	1906.	46.56	22320.

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	47.65	475.2	195.9	224.2	1043.	18830.
Stddev	.07	.2	1.0	.4	11.	6.
%RSD	.1510	.0506	.5003	.1756	1.016	.0315

#1	47.71	475.1	194.8	224.4	1031.	18830.
#2	47.67	475.1	196.7	224.5	1050.	18820.
#3	47.57	475.5	196.3	223.7	1048.	18830.

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	18220.	513.4	68140.	492.0	475.4	429.8
Stddev	39.	.4	68.	1.3	1.3	2.2
%RSD	.2138	.0689	.1005	.2616	.2686	.5100

#1	18270.	513.8	68130.	491.5	476.6	431.2
#2	18200.	513.1	68080.	491.1	474.0	427.3
#3	18200.	513.4	68210.	493.5	475.6	430.9

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

Sample Name: pds 460-111956-A-1-B Acquired: 4/14/2016 12:41:09 Type: Unk
Method: sw04052016(v9) 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	1816.	1986.	472.6	488.2	474.4	464.8
Stddev	7.	1.	1.2	1.6	1.2	1.7
%RSD	.4042	.0613	.2559	.3299	.2531	.3760
#1	1809.	1987.	473.0	487.0	473.2	463.1
#2	1815.	1985.	473.6	487.6	474.4	464.6
#3	1824.	1987.	471.3	490.0	475.6	466.6

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	478.6	491.5	468.1	250.1
Stddev	1.7	1.5	.4	8.4
%RSD	.3580	.2996	.0772	3.361
#1	476.8	492.5	468.5	240.8
#2	479.0	489.8	468.0	257.2
#3	480.1	492.0	467.8	252.3

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	2932.7	38616.	5122.8
Stddev	4.7	61.	27.9
%RSD	.16077	.15799	.54399
#1	2932.0	38546.	5150.7
#2	2937.7	38656.	5122.6
#3	2928.4	38646.	5095.0

Sample Name: 460-111872-D-5-B Acquired: 4/14/2016 14:16:57 Type: Unk
Method: sw04052016(v9) 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	74.40	1.193	.2372	36.28	-.0587	45820.
Stddev	5.14	1.476	.0734	.23	.0374	149.
%RSD	6.915	123.7	30.94	.6452	63.64	.3249
#1	79.02	2.641	.1779	36.06	-.0475	45850.
#2	75.32	1.247	.3193	36.53	-.1004	45960.
#3	68.85	-.3092	.2145	36.24	-.0282	45660.

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	-.0354	-.1812	.3995	.3398	2.959	4088.
Stddev	.1252	.2371	.3432	.1209	8.640	23.
%RSD	353.1	130.8	85.91	35.59	292.0	.5701
#1	-.1511	-.4243	.7958	.3701	10.40	4115.
#2	.0974	.0495	.2001	.2066	4.991	4074.
#3	-.0526	-.1689	.2026	.4427	-6.516	4075.

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	7543.	5.819	23660.	.5387	-.5548	.3140
Stddev	9.	.076	83.	.2636	.1046	.7288
%RSD	.1166	1.300	.3526	48.93	18.86	232.1
#1	7532.	5.829	23730.	.2480	-.5421	-.4052
#2	7547.	5.739	23570.	.7622	-.6653	.2951
#3	7548.	5.890	23670.	.6060	-.4571	1.052

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

Sample Name: 460-111872-D-5-B Acquired: 4/14/2016 14:16:57 Type: Unk
Method: sw04052016(v9) 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	1.377	-.4785	.5346	2.832	35.31	.3218
Stddev	3.466	1.168	.0335	.324	.27	.2445
%RSD	251.8	244.1	6.258	11.44	.7581	75.95
#1	5.145	-1.465	.5076	2.990	35.12	.1986
#2	-1.676	.8110	.5720	2.460	35.62	.6034
#3	.6615	-.7809	.5240	3.047	35.20	.1636

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	.8095	200.5	1.083	5425.
Stddev	.7247	.7	.083	52.
%RSD	89.52	.3712	7.701	.9558
#1	.6398	201.4	1.131	5484.
#2	.1847	200.2	1.131	5407.
#3	1.604	200.0	.9867	5385.

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	2983.3	39712.	5373.5
Stddev	22.0	171.	26.6
%RSD	.73776	.43032	.49463
#1	2967.0	39628.	5387.0
#2	2974.6	39599.	5390.6
#3	3008.4	39909.	5342.9

Sample Name: CCV Acquired: 4/14/2016 14:33:14 Type: QC
Method: sw04052016(v9) 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	119700.	2469.	1229.	10150.	971.4	126200.
Stddev	198.	11.	2.	2.	2.6	741.
%RSD	.1650	.4294	.1745	.0204	.2680	.5875

#1	119500.	2459.	1227.	10150.	974.3	126800.
#2	119800.	2466.	1231.	10150.	970.6	126400.
#3	119800.	2480.	1229.	10160.	969.3	125300.

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	1253.	2507.	5068.	12450.	98550.	48510.
Stddev	1.	3.	35.	57.	328.	76.
%RSD	.1145	.1319	.6836	.4578	.3326	.1569

#1	1254.	2507.	5103.	12430.	98900.	48500.
#2	1253.	2504.	5069.	12410.	98490.	48600.
#3	1251.	2510.	5033.	12520.	98250.	48450.

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	122800.	5094.	119300.	2544.	7400.	977.9
Stddev	140.	18.	157.	1.	8.	7.5
%RSD	.1142	.3550	.1315	.0295	.1095	.7685

#1	122700.	5111.	119300.	2544.	7408.	978.1
#2	122900.	5096.	119200.	2543.	7392.	970.3
#3	122600.	5075.	119500.	2543.	7399.	985.4

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

Sample Name: CCV Acquired: 4/14/2016 14:33:14 Type: QC
Method: sw04052016(v9) 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	2483.	2524.	2501.	2484.	1006.	2511.
Stddev	20.	9.	7.	14.	5.	3.
%RSD	.8153	.3745	.2928	.5459	.5447	.1116

#1	2481.	2525.	2509.	2491.	1006.	2510.
#2	2463.	2513.	2500.	2493.	1001.	2508.
#3	2504.	2532.	2494.	2468.	1012.	2514.

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.	4968.	9943.	9600.
Stddev	1.	2.	58.	202.
%RSD	.0942	.0350	.5810	2.109

#1	1012.	4968.	10010.	9379.
#2	1010.	4969.	9896.	9646.
#3	1010.	4966.	9926.	9775.

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	2815.6	37528.	5213.4
Stddev	6.2	281.	114.0
%RSD	.21931	.74878	2.1875

#1	2811.7	37242.	5101.3
#2	2812.3	37536.	5209.6
#3	2822.7	37804.	5329.2

Sample Name: CCVL Acquired: 4/14/2016 14:41:07 Type: QC
Method: sw04052016(v9) 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	205.2	13.73	9.736	215.3	2.000	5142.
Stddev	8.4	1.57	.009	.7	.034	10.
%RSD	4.095	11.45	.0954	.3258	1.686	.1862

#1	213.5	14.95	9.727	215.2	2.014	5133.
#2	196.7	11.96	9.745	216.1	2.023	5143.
#3	205.3	14.29	9.738	214.7	1.961	5152.

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	4.196	54.07	10.94	24.51	155.8	4802.
Stddev	.067	.18	.40	.21	13.5	32.
%RSD	1.591	.3363	3.641	.8598	8.668	.6686

#1	4.271	54.17	11.36	24.70	165.9	4837.
#2	4.174	53.86	10.89	24.29	160.9	4794.
#3	4.143	54.18	10.57	24.54	140.4	4775.

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	4845.	16.16	4759.	44.30	12.25	18.50
Stddev	11.	.05	30.	.43	1.31	1.63
%RSD	.2287	.3026	.6303	.9750	10.71	8.806

#1	4847.	16.12	4747.	44.70	11.33	16.87
#2	4854.	16.21	4737.	44.38	13.75	20.12
#3	4832.	16.13	4794.	43.84	11.67	18.50

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

Sample Name: CCVL Acquired: 4/14/2016 14:41:07 Type: QC
Method: sw04052016(v9) 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	21.40	22.28	51.48	31.69	50.81	20.31
Stddev	1.69	.95	.36	.09	.59	.05
%RSD	7.891	4.285	.6903	.2985	1.163	.2451
#1	22.70	23.07	51.57	31.78	51.48	20.26
#2	19.49	21.22	51.09	31.71	50.58	20.30
#3	22.01	22.55	51.79	31.59	50.36	20.36

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	52.28	20.85	20.27	F -3.977
Stddev	.93	.10	.04	11.25
%RSD	1.774	.4768	.1943	283.0
#1	51.25	20.78	20.22	8.193
#2	53.05	20.96	20.28	-14.00
#3	52.53	20.82	20.29	-6.119

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	3008.1	40245.	5359.3
Stddev	6.4	267.	20.4
%RSD	.21332	.66336	.38058
#1	3004.5	39939.	5358.5
#2	3015.5	40369.	5339.4
#3	3004.3	40428.	5380.2

Sample Name: CCV Acquired: 4/14/2016 12:49:01 Type: QC
Method: sw04052016(v9) 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.	2497.	1225.	10290.	995.4	127700.
Stddev	431.	6.	4.	22.	2.2	532.
%RSD	.3543	.2251	.3431	.2184	.2203	.4164

#1	121900.	2492.	1222.	10290.	996.3	127300.
#2	122000.	2503.	1224.	10270.	997.0	127500.
#3	121200.	2497.	1230.	10310.	992.9	128300.

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	1271.	2525.	5182.	12470.	100400.	49180.
Stddev	2.	6.	11.	27.	98.	139.
%RSD	.1699	.2477	.2085	.2144	.0973	.2831

#1	1271.	2520.	5179.	12470.	100400.	49050.
#2	1269.	2523.	5173.	12440.	100400.	49330.
#3	1273.	2532.	5194.	12500.	100300.	49170.

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	123000.	5149.	122500.	2574.	7481.	983.3
Stddev	409.	11.	819.	3.	16.	.8
%RSD	.3324	.2071	.6683	.1243	.2202	.0838

#1	122500.	5142.	123200.	2573.	7467.	982.3
#2	123100.	5144.	122700.	2572.	7478.	983.8
#3	123300.	5161.	121600.	2578.	7499.	983.7

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

Sample Name: CCV Acquired: 4/14/2016 12:49:01 Type: QC
Method: sw04052016(v9) 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	2504.	2554.	2532.	2527.	1015.	2538.
Stddev	2.	6.	3.	4.	1.	3.
%RSD	.0830	.2259	.1129	.1445	.1397	.1281

#1	2505.	2558.	2531.	2523.	1013.	2534.
#2	2502.	2557.	2530.	2527.	1014.	2539.
#3	2506.	2547.	2536.	2531.	1016.	2540.

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	1026.	5056.	10020.	9641.
Stddev	2.	14.	20.	72.
%RSD	.2300	.2715	.1946	.7500

#1	1026.	5064.	10000.	9606.
#2	1023.	5064.	10020.	9724.
#3	1028.	5040.	10040.	9592.

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	2809.6	37318.	5130.2
Stddev	12.4	229.	25.5
%RSD	.43973	.61345	.49638

#1	2820.1	37538.	5128.8
#2	2812.8	37335.	5156.3
#3	2796.0	37081.	5105.4

Sample Name: CCB Acquired: 4/14/2016 12:52:49 Type: QC
Method: sw04052016(v9) 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	-6.130	-.8916	-.1943	-.0355	.0199	-10.18
Stddev	4.235	1.786	.3783	.0149	.0486	1.13
%RSD	69.09	200.3	194.7	42.13	244.1	11.10

#1	-1.949	-2.601	-.4098	-.0525	.0537	-11.46
#2	-6.025	.9625	-.4156	-.0247	.0418	-9.317
#3	-10.42	-1.036	.2425	-.0292	-.0358	-9.762

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	-.1307	-.2403	-.2435	-.2644	6.307	-6.357
Stddev	.0723	.0069	.1149	.6473	5.932	32.81
%RSD	55.30	2.854	47.20	244.8	94.05	516.1

#1	-.2138	-.2435	-.1120	.4733	11.74	21.24
#2	-.0823	-.2325	-.3246	-.7376	7.199	2.313
#3	-.0960	-.2451	-.2940	-.5288	-.0206	-42.63

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	.9479	.1361	15.94	-.0303	-1.218	-1.324
Stddev	5.416	.1291	3.76	.4470	.762	.405
%RSD	571.4	94.92	23.58	1473.	62.56	30.58

#1	6.452	.2850	19.86	-.5125	-1.077	-1.785
#2	-4.374	.0672	15.61	.3701	-.5369	-1.167
#3	.7655	.0559	12.36	.0514	-2.042	-1.022

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

Sample Name: CCB Acquired: 4/14/2016 12:52:49 Type: QC
Method: sw04052016(v9) 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	2.451	1.429	-.1410	.0110	-.0174	.3141
Stddev	1.278	1.249	.5184	.0281	.0972	.6024
%RSD	52.13	87.35	367.6	255.2	558.0	191.8
#1	1.327	2.710	-.5061	.0429	.0838	.9483
#2	2.186	1.363	.4523	.0001	-.0262	.2444
#3	3.841	.2153	-.3693	-.0099	-.1099	-.2503

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	-.0864	.0636	.0222	-6.709
Stddev	.7586	.1205	.4284	6.273
%RSD	878.0	189.5	1929.	93.50
#1	.4476	.1963	.5039	-9.881
#2	.2479	-.0391	-.3162	.5161
#3	-.9547	.0337	-.1210	-10.76

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	2983.0	39601.	5211.0
Stddev	14.0	315.	28.6
%RSD	.47007	.79632	.54904
#1	2968.7	39286.	5203.2
#2	2983.7	39601.	5187.0
#3	2996.8	39916.	5242.6

Sample Name: MB 460-362304/1-B Acquired: 4/14/2016 13:00:56 Type: QC

Method: sw04052016(v9) 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	-1.210	.1344	-.8408	.1612	.0169	-11.86
Stddev	7.504	.8026	.0937	.4770	.1085	5.68
%RSD	620.3	597.2	11.14	295.9	642.2	47.90

#1	2.846	.4183	-.8929	-.1585	-.0305	-18.26
#2	3.393	-.7716	-.8968	-.0674	.1410	-9.887
#3	-9.869	.7565	-.7326	.7095	-.0598	-7.423

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	-.0259	.0748	.3073	-.4950	.4050	-11.99
Stddev	.0906	.3256	.3703	.3302	3.676	24.41
%RSD	349.2	435.2	120.5	66.70	907.7	203.6

#1	-.0565	.0415	-.0246	-.8140	4.295	-17.87
#2	-.0973	-.2329	.7068	-.5163	-.0682	-32.92
#3	.0760	.4157	.2399	-.1547	-3.012	14.83

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	-4.100	-.0379	-1.758	.0788	-2.098	-.3792
Stddev	5.300	.0130	3.737	.2980	2.035	1.394
%RSD	129.3	34.31	212.6	378.2	97.01	367.6

#1	-4.522	-.0522	-1.418	-.0632	-2.255	-1.236
#2	-9.176	-.0345	1.798	.4212	.0115	1.229
#3	1.399	-.0269	-5.653	-.1216	-4.049	-1.131

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

Sample Name: MB 460-362304/1-B Acquired: 4/14/2016 13:00:56 Type: QC
Method: sw04052016(v9) 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	.6806	-.0528	.1685	.6720	-.9944	-.7616
Stddev	1.333	1.266	.5115	.0853	.1259	.1305
%RSD	195.9	2395.	303.6	12.69	12.67	17.13
#1	2.208	-1.514	.5087	.6675	-.8529	-.8639
#2	.0838	.6780	-.4197	.7594	-1.036	-.8062
#3	-.2502	.6777	.4166	.5890	-1.094	-.6147

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	.2257	-.0681	-.4291	-3.070
Stddev	.8318	.0276	.0891	4.811
%RSD	368.6	40.54	20.77	156.7
#1	-.0118	-.0998	-.4661	-.0339
#2	1.150	-.0545	-.4937	-8.617
#3	-.4616	-.0498	-.3274	-.5602

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	3007.9	39676.	5159.1
Stddev	10.8	252.	87.5
%RSD	.35945	.63583	1.6967
#1	3020.3	39883.	5254.1
#2	3003.2	39395.	5141.6
#3	3000.2	39751.	5081.7

Sample Name: 460-110136-F-2-C DU Acquired: 4/14/2016 13:08:45 Type: Unk
Method: sw04052016(v9) 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	34.39	.9396	.0157	74.11	.0553	13030.
Stddev	4.99	2.119	.4363	1.80	.0195	66.
%RSD	14.52	225.5	2779.	2.430	35.32	.5096
#1	33.20	3.276	-.0557	76.19	.0663	13100.
#2	39.87	-.8586	.4834	73.04	.0669	12970.
#3	30.10	.4014	-.3805	73.09	.0328	13010.

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	.1203	.1237	8.075	-.0244	-.6076	6511.
Stddev	.3427	.3815	.449	.0720	5.181	25.
%RSD	284.9	308.3	5.559	294.8	852.6	.3766
#1	.4431	.5577	8.035	.0307	-2.763	6538.
#2	-.2393	-.1590	7.648	-.1058	5.303	6502.
#3	.1570	-.0275	8.543	.0019	-4.363	6491.

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	2576.	124.5	41020.	3.150	2.944	1.144
Stddev	10.	.4	180.	.419	1.631	.709
%RSD	.3880	.3262	.4395	13.30	55.38	61.93
#1	2587.	124.9	40940.	3.347	4.643	1.870
#2	2575.	124.0	41220.	2.669	1.392	1.110
#3	2567.	124.5	40890.	3.433	2.798	.4535

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

Sample Name: 460-110136-F-2-C DU Acquired: 4/14/2016 13:08:45 Type: Unk
Method: sw04052016(v9) 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	3.798	-.3065	.1131	17.17	32.59	-.2411
Stddev	1.749	3.506	.2008	.52	.87	.5212
%RSD	46.05	1144.	177.6	3.056	2.681	216.1
#1	5.160	3.509	-.1143	17.77	33.46	.3589
#2	1.826	-3.387	.2662	16.87	31.71	-.5009
#3	4.409	-1.041	.1874	16.85	32.60	-.5813

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	.5833	62.01	.4686	5186.
Stddev	.2633	.16	.0824	68.
%RSD	45.14	.2546	17.59	1.304
#1	.4705	62.05	.3830	5127.
#2	.3952	62.15	.4753	5260.
#3	.8842	61.84	.5474	5171.

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	2973.9	39213.	5192.9
Stddev	11.0	393.	76.0
%RSD	.36927	1.0023	1.4635
#1	2975.1	38789.	5128.0
#2	2984.2	39565.	5276.5
#3	2962.4	39285.	5174.1

Sample Name: sd 460-110136-F-2-B Acquired: 4/14/2016 13:16:49 Type: Unk
Method: sw04052016(v9) 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	1.595	.0229	-.0866	14.12	.0165	2551.
Stddev	17.61	2.493	.3037	.18	.0662	34.
%RSD	1104.	10910.	350.6	1.294	402.1	1.340
#1	-17.15	.5910	-.0495	14.31	-.0287	2523.
#2	17.80	2.183	.1968	13.95	.0924	2541.
#3	4.128	-2.705	-.4072	14.09	-.0143	2589.

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	-.0121	.0696	1.631	-.4159	4.314	1242.
Stddev	.0433	.1450	.469	.1854	8.009	17.
%RSD	358.8	208.3	28.73	44.59	185.7	1.358
#1	.0326	-.0572	1.613	-.2922	7.066	1261.
#2	-.0537	.0384	2.108	-.3263	10.58	1236.
#3	-.0151	.2276	1.172	-.6291	-4.709	1228.

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	503.9	24.32	7655.	.5033	.5502	.2912
Stddev	1.6	.24	88.	.1268	.4085	.1425
%RSD	.3088	.9753	1.156	25.20	74.25	48.94
#1	504.3	24.27	7737.	.6496	.8736	.2333
#2	502.2	24.10	7667.	.4247	.6859	.1867
#3	505.2	24.57	7561.	.4355	.0911	.4535

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

Sample Name: sd 460-110136-F-2-B Acquired: 4/14/2016 13:16:49 Type: Unk
Method: sw04052016(v9) 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	1.734	1.812	-.0731	3.914	4.883	-.6938
Stddev	4.207	2.490	.1656	.077	.414	.1862
%RSD	242.6	137.4	226.5	1.974	8.473	26.85
#1	5.019	3.112	-.1931	3.970	4.729	-.6327
#2	3.192	-1.059	.1158	3.826	5.351	-.5457
#3	-3.007	3.382	-.1421	3.947	4.567	-.9029

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	-.2634	11.99	-.2239	988.7
Stddev	.2830	.08	.0983	39.4
%RSD	107.5	.6962	43.91	3.983
#1	-.4406	11.90	-.2508	966.3
#2	.0631	12.01	-.3060	965.7
#3	-.4126	12.06	-.1150	1034.

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	3003.3	39729.	5263.4
Stddev	9.3	142.	76.9
%RSD	.31035	.35661	1.4610
#1	2992.8	39880.	5205.5
#2	3006.5	39707.	5234.0
#3	3010.5	39600.	5350.6

Sample Name: pds 460-110136-F-2-B Acquired: 4/14/2016 13:24:37 Type: Unk
Method: sw04052016(v9) 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	1944.	1883.	46.30	2066.	49.17	32060.
Stddev	8.	1.	.65	3.	.07	78.
%RSD	.4293	.0615	1.409	.1555	.1426	.2422
#1	1942.	1881.	46.22	2065.	49.21	31970.
#2	1953.	1884.	45.69	2064.	49.20	32120.
#3	1937.	1883.	46.98	2070.	49.09	32090.

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	49.77	502.9	213.2	239.0	992.4	23920.
Stddev	.17	1.0	1.8	.7	3.2	96.
%RSD	.3360	.1928	.8344	.3035	.3254	.4000
#1	49.79	503.7	214.8	239.6	993.9	23860.
#2	49.60	501.9	211.3	238.2	994.6	24030.
#3	49.93	503.2	213.6	239.4	988.7	23870.

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	21000.	623.8	59290.	517.7	499.1	460.3
Stddev	46.	.5	337.	1.2	1.9	2.6
%RSD	.2170	.0736	.5675	.2380	.3814	.5577
#1	20950.	623.3	59010.	517.3	500.8	459.0
#2	21010.	624.1	59660.	516.7	497.0	458.6
#3	21040.	624.1	59190.	519.1	499.5	463.2

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

Sample Name: pds 460-110136-F-2-B Acquired: 4/14/2016 13:24:37 Type: Unk
Method: sw04052016(v9) 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.	2094.	501.0	522.3	525.0	492.1
Stddev	4.	7.	.6	1.5	2.0	.7
%RSD	.2032	.3170	.1222	.2889	.3889	.1388

#1	1903.	2089.	500.5	520.9	524.7	491.4
#2	1895.	2092.	500.9	522.1	523.1	492.2
#3	1900.	2101.	501.7	523.9	527.2	492.7

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	504.4	546.0	495.6	5398.
Stddev	1.1	1.4	.3	19.
%RSD	.2153	.2553	.0621	.3606

#1	504.0	545.8	495.7	5380.
#2	503.5	547.5	495.8	5395.
#3	505.6	544.7	495.2	5419.

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	2936.9	39158.	5251.7
Stddev	9.2	167.	33.1
%RSD	.31413	.42706	.63009

#1	2945.6	39307.	5288.5
#2	2937.9	39190.	5241.8
#3	2927.2	38977.	5224.6

Sample Name: 460-110136-F-3-B Acquired: 4/14/2016 13:32:22 Type: Unk
Method: sw04052016(v9) 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	26.67	-.6110	-.0938	7.926	.0238	9842.
Stddev	13.69	1.051	.4679	.109	.1155	53.
%RSD	51.36	172.1	499.1	1.370	484.5	.5356
#1	11.31	.4550	-.6118	7.808	.0303	9891.
#2	37.60	-.6411	.0322	8.021	.1359	9848.
#3	31.09	-1.647	.2983	7.948	-.0947	9786.

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	-.0531	-.2265	27.78	-.1432	-6.602	2094.
Stddev	.0669	.0464	.13	.1223	7.062	49.
%RSD	126.0	20.48	.4555	85.39	107.0	2.329
#1	-.1194	-.2636	27.91	-.1868	-2.766	2048.
#2	-.0544	-.2414	27.77	-.0051	-2.287	2090.
#3	.0145	-.1745	27.65	-.2376	-14.75	2145.

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	4785.	.3895	12760.	.0142	2.347	.5421
Stddev	4.	.3558	81.	.3467	1.244	.4333
%RSD	.0877	91.34	.6314	2448.	53.00	79.93
#1	4789.	.1910	12850.	.2473	2.309	.6127
#2	4781.	.8003	12720.	-.3843	1.123	.0778
#3	4784.	.1773	12710.	.1795	3.610	.9357

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

Sample Name: 460-110136-F-3-B Acquired: 4/14/2016 13:32:22 Type: Unk
Method: sw04052016(v9) 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	-.2615	-.0846	-.1919	2.068	19.51	-.8964
Stddev	3.782	1.701	.2943	.059	.14	.0875
%RSD	1446.	2011.	153.4	2.867	.7329	9.760
#1	.8234	-1.788	-.3086	2.016	19.60	-.8297
#2	-4.467	-.0792	-.4099	2.054	19.60	-.8641
#3	2.859	1.613	.1429	2.132	19.35	-.9955

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	.2524	55.44	.3153	6462.
Stddev	.7252	.25	.3263	148.
%RSD	287.3	.4512	103.5	2.287
#1	-.2329	55.70	.2125	6447.
#2	-.0958	55.21	.6806	6322.
#3	1.086	55.40	.0527	6616.

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	2979.2	39398.	5157.8
Stddev	22.1	600.	137.1
%RSD	.74100	1.5218	2.6584
#1	2954.1	38845.	5060.9
#2	2995.5	39313.	5097.8
#3	2988.1	40035.	5314.7

Sample Name: CCV Acquired: 4/14/2016 13:40:28 Type: QC
Method: sw04052016(v9) 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	119800.	2467.	1213.	10200.	981.9	127700.
Stddev	201.	10.	5.	28.	2.4	986.
%RSD	.1675	.4226	.3989	.2740	.2459	.7719

#1	119600.	2472.	1218.	10230.	981.4	128800.
#2	120000.	2475.	1212.	10190.	984.6	127300.
#3	119800.	2455.	1208.	10180.	979.8	126900.

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.	2503.	5163.	12270.	99770.	48580.
Stddev	6.	4.	30.	26.	497.	122.
%RSD	.4486	.1706	.5851	.2139	.4976	.2504

#1	1267.	2506.	5195.	12250.	100300.	48440.
#2	1260.	2505.	5159.	12300.	99760.	48630.
#3	1256.	2498.	5135.	12250.	99280.	48660.

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	122700.	5131.	120000.	2554.	7387.	966.5
Stddev	788.	30.	422.	12.	20.	2.5
%RSD	.6422	.5798	.3511	.4891	.2674	.2584

#1	123500.	5162.	119800.	2566.	7403.	963.8
#2	122500.	5130.	120500.	2553.	7392.	968.7
#3	122000.	5102.	119800.	2541.	7365.	967.1

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

Sample Name: CCV Acquired: 4/14/2016 13:40:28 Type: QC
Method: sw04052016(v9) 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.	2507.	2513.	2520.	995.1	2509.
Stddev	13.	10.	11.	20.	3.8	2.
%RSD	.5208	.4030	.4319	.8090	.3793	.0981

#1	2467.	2506.	2524.	2543.	995.0	2510.
#2	2482.	2518.	2512.	2514.	998.9	2511.
#3	2456.	2498.	2503.	2503.	991.3	2507.

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	1016.	4983.	9968.	9409.
Stddev	3.	10.	38.	91.
%RSD	.3338	.1922	.3841	.9702

#1	1020.	4972.	10000.	9396.
#2	1015.	4991.	9976.	9326.
#3	1014.	4985.	9927.	9507.

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	2839.3	37377.	5106.4
Stddev	27.5	350.	46.4
%RSD	.96812	.93508	.90946

#1	2807.6	36986.	5089.7
#2	2856.7	37661.	5070.6
#3	2853.6	37484.	5158.9

Sample Name: CCB Acquired: 4/14/2016 13:44:18 Type: QC
Method: sw04052016(v9) 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	-7.754	-.1738	-.3503	-.0340	-.0095	-11.74
Stddev	16.27	.7043	.4999	.2519	.0499	1.99
%RSD	209.9	405.1	142.7	740.8	526.1	16.95
#1	-25.18	.4802	-.2056	.2567	.0448	-10.84
#2	-5.125	-.9194	.0612	-.1707	-.0198	-14.03
#3	7.044	-.0823	-.9067	-.1880	-.0535	-10.37

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	-.0455	-.0312	.4132	-.5440	4.596	3.979
Stddev	.0312	.1460	.4462	.3251	.773	46.06
%RSD	68.54	467.6	108.0	59.77	16.81	1157.
#1	-.0611	-.1934	.1168	-.3286	4.989	57.16
#2	-.0096	.0897	.1964	-.9180	5.094	-22.07
#3	-.0658	.0101	.9264	-.3853	3.706	-23.15

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	-.9061	.0871	2.063	.1319	-.4068	.4240
Stddev	5.985	.0904	16.71	.4492	1.897	1.141
%RSD	660.6	103.8	809.8	340.7	466.3	269.1
#1	2.263	.1786	17.87	.5569	-.1934	1.718
#2	2.828	.0850	3.746	-.3382	1.374	-.4366
#3	-7.809	-.0022	-15.42	.1768	-2.401	-.0096

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

Sample Name: CCB Acquired: 4/14/2016 13:44:18 Type: QC
Method: sw04052016(v9) 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	1.820	.6132	-.2044	.0280	-.1557	.5571
Stddev	1.052	1.223	.2583	.1825	.4042	.2805
%RSD	57.79	199.4	126.4	652.6	259.6	50.35
#1	1.038	2.014	-.2695	.2231	-.1107	.8807
#2	3.016	.0644	.0802	-.1386	.2241	.3849
#3	1.406	-.2390	-.4238	-.0007	-.5805	.4056

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	.5066	.0738	-.1060	-22.04
Stddev	.3651	.1401	.0693	17.73
%RSD	72.07	189.8	65.37	80.43
#1	.3174	.2328	-.0264	-1.572
#2	.2750	.0197	-.1390	-32.28
#3	.9276	-.0312	-.1527	-32.27

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	2982.0	39497.	5111.8
Stddev	10.0	203.	62.6
%RSD	.33507	.51468	1.2254
#1	2993.5	39729.	5128.5
#2	2976.2	39416.	5164.5
#3	2976.2	39347.	5042.5

Sample Name: CCVL Acquired: 4/14/2016 13:48:24 Type: QC
Method: sw04052016(v9) 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	208.7	13.74	9.409	215.1	1.931	5160.
Stddev	13.7	2.47	.460	.6	.058	14.
%RSD	6.559	18.01	4.885	.2831	2.996	.2755

#1	212.6	14.25	9.401	214.7	1.995	5155.
#2	220.1	15.91	8.953	214.8	1.883	5148.
#3	193.5	11.04	9.872	215.8	1.916	5176.

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	4.125	53.92	10.83	24.25	154.1	4791.
Stddev	.062	.37	.09	.12	6.8	52.
%RSD	1.499	.6843	.7996	.5047	4.433	1.076

#1	4.197	53.50	10.73	24.14	154.6	4850.
#2	4.088	54.17	10.88	24.38	160.7	4759.
#3	4.092	54.09	10.88	24.23	147.0	4763.

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	4857.	16.16	4700.	44.36	11.13	19.31
Stddev	6.	.02	31.	.45	1.62	1.18
%RSD	.1204	.1433	.6574	1.015	14.58	6.108

#1	4864.	16.15	4717.	44.00	9.707	19.08
#2	4855.	16.19	4719.	44.21	12.90	20.58
#3	4853.	16.14	4664.	44.86	10.80	18.25

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

Sample Name: CCVL Acquired: 4/14/2016 13:48:24 Type: QC
Method: sw04052016(v9) 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	20.54	23.00	51.56	31.90	50.56	20.17
Stddev	2.61	1.22	.21	.09	.46	.26
%RSD	12.70	5.288	.4067	.2828	.9027	1.308

#1	19.94	24.39	51.63	31.84	50.89	20.37
#2	23.40	22.13	51.73	32.00	50.75	20.27
#3	18.29	22.48	51.33	31.86	50.04	19.87

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	52.29	20.68	20.28	F -7.158
Stddev	.94	.03	.13	14.15
%RSD	1.806	.1652	.6506	197.7

#1	51.92	20.65	20.31	-1.254
#2	51.58	20.67	20.40	3.083
#3	53.36	20.72	20.14	-23.30

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	3020.8	40332.	5322.7
Stddev	10.6	157.	190.6
%RSD	.35135	.39046	3.5806

#1	3027.3	40170.	5107.9
#2	3026.5	40343.	5388.6
#3	3008.5	40484.	5471.6

Sample Name: 460-110136-F-6-B Acquired: 4/14/2016 13:56:37 Type: Unk
Method: sw04052016(v9) 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	106.8	-2.623	-.2114	179.0	.1093	38010.
Stddev	7.4	.534	.3204	.6	.0714	191.
%RSD	6.914	20.37	151.5	.3268	65.33	.5036
#1	115.1	-2.199	-.0465	178.9	.1776	37790.
#2	104.4	-3.223	-.5807	179.7	.0351	38090.
#3	100.9	-2.446	-.0072	178.5	.1154	38150.

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	1.444	-.0293	.7212	.0571	10.78	5810.
Stddev	.104	.2204	.3669	.1551	6.73	72.
%RSD	7.210	753.2	50.88	271.6	62.37	1.237
#1	1.555	.0036	.5272	.2265	16.26	5773.
#2	1.349	.1728	.4920	-.0779	3.276	5764.
#3	1.426	-.2642	1.144	.0227	12.82	5893.

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	7499.	858.2	60050.	4.518	4.534	-.4623
Stddev	24.	2.9	128.	.191	.930	.6468
%RSD	.3162	.3327	.2129	4.234	20.51	139.9
#1	7472.	854.9	59970.	4.310	4.372	-.8807
#2	7513.	859.5	59980.	4.686	5.535	-.7889
#3	7514.	860.1	60200.	4.557	3.696	.2827

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

Sample Name: 460-110136-F-6-B Acquired: 4/14/2016 13:56:37 Type: Unk
Method: sw04052016(v9) 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	.3177	.9216	.0558	2.298	66.35	-.6796
Stddev	3.037	1.222	.3563	.138	.35	.2207
%RSD	955.8	132.6	638.6	5.988	.5248	32.47
#1	-1.256	-.0932	-.3550	2.141	65.95	-.8691
#2	-1.609	.5798	.2801	2.394	66.54	-.7324
#3	3.818	2.278	.2423	2.360	66.56	-.4373

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	.4687	192.7	.8769	7274.
Stddev	.6248	.7	.1658	17.
%RSD	133.3	.3613	18.91	.2404
#1	.4221	192.4	.8299	7274.
#2	1.115	192.1	1.061	7257.
#3	-.1316	193.4	.7396	7292.

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	2971.1	39878.	5459.9
Stddev	2.7	100.	16.4
%RSD	.09065	.25087	.30098
#1	2971.5	39994.	5475.1
#2	2973.6	39823.	5462.0
#3	2968.3	39818.	5442.4

Sample Name: 460-110136-F-7-B Acquired: 4/14/2016 14:00:39 Type: Unk
Method: sw04052016(v9) 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	25.60	-1.684	-.2853	9.518	.0438	8214.
Stddev	13.93	1.767	.2658	.059	.0555	87.
%RSD	54.43	105.0	93.17	.6169	126.7	1.058

#1	31.31	-3.352	-.5883	9.527	.1032	8292.
#2	35.77	-1.867	-.0916	9.572	-.0069	8230.
#3	9.718	.1682	-.1759	9.456	.0352	8121.

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	.0064	.2229	5.412	23.92	26.97	2150.
Stddev	.0629	.0199	.390	.11	2.25	34.
%RSD	988.8	8.915	7.213	.4432	8.345	1.597

#1	-.0232	.2000	5.080	23.98	24.45	2115.
#2	.0786	.2330	5.842	23.97	28.79	2184.
#3	-.0363	.2357	5.315	23.79	27.66	2152.

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	2534.	27.81	23180.	19.56	1.270	-.4242
Stddev	13.	.12	136.	.32	.386	.0737
%RSD	.4961	.4148	.5879	1.661	30.42	17.37

#1	2549.	27.92	23110.	19.27	.8587	-.4603
#2	2529.	27.69	23330.	19.91	1.327	-.3394
#3	2525.	27.82	23080.	19.49	1.625	-.4728

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

Sample Name: 460-110136-F-7-B Acquired: 4/14/2016 14:00:39 Type: Unk
Method: sw04052016(v9) 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	2.232	-1.043	.3081	34.29	16.34	.2498
Stddev	.706	.668	.2493	.19	.42	.1567
%RSD	31.62	64.05	80.93	.5649	2.552	62.73
#1	2.225	-.6905	.1193	34.45	16.01	.4263
#2	1.530	-.6254	.5907	34.34	16.21	.1962
#3	2.941	-1.814	.2142	34.07	16.81	.1269

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	.4955	33.77	.2839	5242.
Stddev	.3818	.21	.0781	123.
%RSD	77.04	.6129	27.53	2.336
#1	.9364	33.57	.2065	5174.
#2	.2785	33.99	.3627	5170.
#3	.2717	33.75	.2824	5384.

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	3004.1	40046.	5331.3
Stddev	10.7	486.	175.6
%RSD	.35688	1.2129	3.2945
#1	2991.9	39571.	5237.7
#2	3012.0	40026.	5222.2
#3	3008.5	40542.	5533.9

Sample Name: 460-110136-F-8-B Acquired: 4/14/2016 14:04:44 Type: Unk
Method: sw04052016(v9) 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	27.43	-1.971	.0086	9.736	.0379	8344.
Stddev	7.45	.422	.6309	.073	.0935	9.
%RSD	27.17	21.40	7303.	.7457	246.9	.1098
#1	20.62	-1.935	.6652	9.798	-.0682	8341.
#2	35.39	-1.568	-.5931	9.754	.0731	8336.
#3	26.28	-2.409	-.0462	9.656	.1087	8354.

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	.0118	.1848	5.193	24.07	21.98	2191.
Stddev	.0306	.0543	.401	.46	1.79	40.
%RSD	259.7	29.37	7.714	1.893	8.134	1.812
#1	-.0235	.1268	5.063	23.77	23.84	2152.
#2	.0295	.1934	5.642	24.60	20.27	2232.
#3	.0293	.2343	4.873	23.85	21.82	2188.

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	2574.	28.59	23330.	20.13	2.550	.1110
Stddev	12.	.06	82.	.26	1.630	.9706
%RSD	.4606	.2190	.3535	1.273	63.91	874.5
#1	2560.	28.56	23420.	20.41	4.104	.5677
#2	2580.	28.56	23270.	20.05	.8535	-1.004
#3	2581.	28.67	23290.	19.92	2.694	.7691

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

Sample Name: 460-110136-F-8-B Acquired: 4/14/2016 14:04:44 Type: Unk
Method: sw04052016(v9) 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	-1.148	-.7103	-.0458	33.17	16.66	.0300
Stddev	3.896	.6396	.2504	.13	.54	.2235
%RSD	3393.	90.05	546.2	.4054	3.245	746.2
#1	-.6687	-1.116	-.1283	33.26	16.89	-.2194
#2	-3.704	.0270	-.2445	33.01	16.04	.0970
#3	4.028	-1.041	.2354	33.23	17.05	.2123

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	.3392	34.27	.1680	5414.
Stddev	.6243	.08	.1095	4.
%RSD	184.1	.2447	65.21	.0786
#1	-.3558	34.36	.0416	5419.
#2	.5207	34.26	.2267	5412.
#3	.8526	34.20	.2356	5412.

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	2981.7	40035.	5426.1
Stddev	7.2	34.	11.1
%RSD	.23981	.08459	.20408
#1	2977.5	40065.	5426.8
#2	2989.9	39998.	5436.9
#3	2977.6	40042.	5414.8

Sample Name: 460-110136-F-9-B Acquired: 4/14/2016 14:08:49 Type: Unk
Method: sw04052016(v9) 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	235.7	-.2120	-.1342	175.9	.5243	15800.
Stddev	10.8	.8089	.3919	.4	.1167	67.
%RSD	4.561	381.6	291.9	.2538	22.25	.4221
#1	228.2	.6360	-.5635	176.4	.6261	15870.
#2	230.7	-.2967	-.0436	175.7	.5499	15740.
#3	248.0	-.9752	.2043	175.6	.3970	15800.

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	.2208	.0386	.8172	.3202	7.547	2024.
Stddev	.0190	.1538	.4797	.2933	12.59	21.
%RSD	8.606	398.7	58.71	91.60	166.8	1.051
#1	.2033	.2075	1.326	.6580	4.326	2005.
#2	.2410	.0016	.7524	.1724	21.43	2048.
#3	.2181	-.0934	.3731	.1302	-3.119	2020.

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	4461.	138.2	38920.	3.718	2.309	1.037
Stddev	13.	.3	173.	.310	.812	1.419
%RSD	.2885	.2162	.4432	8.339	35.18	136.8
#1	4471.	138.5	38780.	4.018	2.311	.8774
#2	4446.	138.0	39120.	3.737	1.496	2.528
#3	4466.	137.9	38870.	3.399	3.121	-.2955

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

Sample Name: 460-110136-F-9-B Acquired: 4/14/2016 14:08:49 Type: Unk
Method: sw04052016(v9) 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	1.204	-.6080	-.3880	9.744	52.11	-.7786
Stddev	.600	2.128	.2046	.221	.62	.2237
%RSD	49.81	349.9	52.72	2.272	1.192	28.73
#1	.7735	-2.822	-.5612	9.654	51.78	-.9385
#2	1.888	1.421	-.1623	9.996	52.82	-.8744
#3	.9487	-.4239	-.4406	9.581	51.72	-.5230

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	-.0916	87.93	.5045	4445.
Stddev	.6268	.21	.0665	102.
%RSD	684.6	.2367	13.18	2.292
#1	-.7697	87.75	.5527	4349.
#2	.0285	88.16	.4286	4552.
#3	.4665	87.89	.5322	4435.

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	3033.0	40126.	5388.9
Stddev	11.4	401.	113.1
%RSD	.37608	1.0001	2.0990
#1	3045.9	39668.	5281.4
#2	3024.2	40413.	5506.9
#3	3028.8	40297.	5378.6

Sample Name: 460-110252-F-1-D Acquired: 4/14/2016 14:12:53 Type: Unk
Method: sw04052016(v9) 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	54.99	-.0239	-.3753	31.70	-.0223	33230.
Stddev	3.86	.6796	.1859	.07	.1470	193.
%RSD	7.015	2846.	49.54	.2269	660.0	.5806
#1	59.34	.7498	-.2011	31.74	-.0023	33240.
#2	52.00	-.5243	-.5711	31.74	-.1783	33410.
#3	53.62	-.2971	-.3537	31.61	.1137	33030.

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	-.0844	-.1028	.5415	.3971	-3.987	2812.
Stddev	.0031	.1378	.2366	.2960	9.867	33.
%RSD	3.700	134.1	43.70	74.54	247.5	1.170
#1	-.0874	-.0603	.4281	.7049	-5.456	2792.
#2	-.0812	-.2568	.8134	.3720	-13.04	2794.
#3	-.0846	.0088	.3829	.1145	6.532	2850.

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	4508.	4.563	46290.	.6209	.0793	-.5355
Stddev	26.	.037	399.	1.028	.6317	1.630
%RSD	.5662	.8145	.8614	165.5	796.2	304.4
#1	4479.	4.570	45950.	1.345	-.3508	1.046
#2	4519.	4.523	46200.	-.5553	-.2157	-2.211
#3	4527.	4.596	46730.	1.073	.8045	-.4414

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

Sample Name: 460-110252-F-1-D Acquired: 4/14/2016 14:12:53 Type: Unk
Method: sw04052016(v9) 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	3.607	.2472	-.2640	52.97	46.28	-.8416
Stddev	1.830	2.102	.1660	.31	.25	.1970
%RSD	50.75	850.6	62.89	.5851	.5328	23.40
#1	2.804	-2.019	-.1590	53.27	46.02	-1.051
#2	2.315	2.133	-.1776	52.99	46.52	-.8131
#3	5.701	.6276	-.4554	52.65	46.29	-.6604

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	.9528	153.5	.8356	3132.
Stddev	.5761	.7	.1181	42.
%RSD	60.46	.4812	14.13	1.336
#1	.7906	152.7	.7987	3121.
#2	1.593	153.8	.9677	3097.
#3	.4752	154.0	.7404	3178.

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	2962.5	39198.	5295.8
Stddev	.8	333.	63.0
%RSD	.02675	.85045	1.1888
#1	2961.6	39052.	5320.0
#2	2963.0	38963.	5224.3
#3	2962.9	39580.	5343.0

Sample Name: 460-111982-E-2-A Acquired: 4/14/2016 14:21:03 Type: Unk
Method: sw04052016(v9) 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	14.91	-2.521	.2311	.2621	.0170	99.35
Stddev	10.50	.886	.2289	.0914	.1084	48.17
%RSD	70.44	35.15	99.07	34.88	637.8	48.49
#1	4.027	-2.784	-.0201	.1761	-.1061	155.0
#2	24.98	-3.247	.4280	.2520	.0985	70.53
#3	15.71	-1.534	.2853	.3581	.0585	72.55

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	-.1382	-.0579	1.056	.2707	7.597	24.41
Stddev	.0476	.1062	.279	.1011	5.527	23.24
%RSD	34.42	183.3	26.44	37.36	72.74	95.19
#1	-.1895	.0272	.9740	.1617	11.44	17.08
#2	-.1297	-.0242	.8262	.3615	10.09	5.720
#3	-.0955	-.1769	1.366	.2888	1.263	50.43

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	13.44	.5736	156.9	.9573	-2.092	-.2075
Stddev	7.55	.0228	11.3	.1766	1.852	.5891
%RSD	56.19	3.970	7.207	18.45	88.54	284.0
#1	21.14	.5498	147.9	.9464	-2.365	-.8622
#2	13.13	.5951	169.6	1.139	-.1186	.2798
#3	6.046	.5760	153.2	.7864	-3.793	-.0401

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

Sample Name: 460-111982-E-2-A Acquired: 4/14/2016 14:21:03 Type: Unk
Method: sw04052016(v9) 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	1.310	.8990	-.1517	1.883	90.40	-.5657
Stddev	2.555	.2179	.2310	.115	.94	.2970
%RSD	195.1	24.23	152.3	6.112	1.044	52.51
#1	1.984	1.137	-.3812	2.011	89.59	-.8183
#2	-1.515	.8508	.0807	1.787	90.18	-.2385
#3	3.460	.7093	-.1544	1.851	91.43	-.6403

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	.6708	.2726	-.3301	139.6
Stddev	.3339	.0944	.1473	13.8
%RSD	49.78	34.64	44.63	9.914
#1	.5833	.2898	-.2961	150.8
#2	1.040	.3572	-.4915	124.1
#3	.3894	.1707	-.2028	143.8

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	3046.4	40575.	5344.7
Stddev	4.5	108.	44.6
%RSD	.14897	.26616	.83381
#1	3042.2	40539.	5318.1
#2	3051.2	40490.	5319.8
#3	3045.8	40697.	5396.1

Sample Name: 460-111982-E-3-A Acquired: 4/14/2016 14:25:10 Type: Unk
Method: sw04052016(v9) 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	162.3	3.503	.0604	153.1	2.696	21320.
Stddev	8.8	1.237	.1445	.2	.107	97.
%RSD	5.444	35.30	239.4	.1404	3.969	.4533
#1	164.0	4.741	.0180	152.8	2.756	21230.
#2	152.7	3.502	.2213	153.2	2.572	21420.
#3	170.1	2.267	-.0582	153.1	2.759	21310.

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	-.4445	374.4	4.338	4.913	10700.	3128.
Stddev	.0816	1.0	.362	.110	58.	22.
%RSD	18.35	.2600	8.340	2.237	.5461	.7008
#1	-.5362	373.4	4.261	4.800	10660.	3122.
#2	-.4175	375.3	4.021	5.020	10670.	3111.
#3	-.3798	374.5	4.732	4.919	10770.	3153.

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	7453.	502.7	42220.	317.9	3.327	-.3377
Stddev	16.	1.7	149.	1.1	.652	.4391
%RSD	.2187	.3405	.3539	.3424	19.58	130.0
#1	7435.	501.3	42070.	316.7	2.626	-.1338
#2	7463.	504.6	42220.	318.9	3.914	-.8416
#3	7463.	502.2	42360.	318.1	3.443	-.0375

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

Sample Name: 460-111982-E-3-A Acquired: 4/14/2016 14:25:10 Type: Unk
Method: sw04052016(v9) 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	1.377	1.333	6.270	841.2	17.43	-5019
Stddev	2.519	1.834	.265	1.7	.36	.0979
%RSD	182.9	137.5	4.226	.2053	2.080	19.50
#1	-1.116	3.449	6.113	840.7	17.07	-6149
#2	3.922	.3505	6.120	843.1	17.43	-4423
#3	1.326	.2002	6.575	839.7	17.80	-4487

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	.5592	327.0	.7216	4420.
Stddev	1.088	1.2	.0640	18.
%RSD	194.5	.3681	8.875	.4062
#1	1.082	326.0	.7152	4399.
#2	1.287	326.5	.6610	4431.
#3	-.6913	328.3	.7886	4430.

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	2989.5	40177.	5510.5
Stddev	9.1	51.	48.8
%RSD	.30425	.12606	.88570
#1	2990.3	40230.	5507.8
#2	2998.1	40172.	5560.6
#3	2980.0	40129.	5463.1

Sample Name: 460-111982-E-4-A Acquired: 4/14/2016 14:29:10 Type: Unk
Method: sw04052016(v9) 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	51.47	.3338	.0116	102.7	.0564	32330.
Stddev	11.88	1.068	.1948	.0	.0646	206.
%RSD	23.08	320.1	1685.	.0457	114.4	.6380
#1	38.57	1.549	-.2097	102.6	.1137	32110.
#2	53.88	-.4603	.1575	102.7	.0691	32520.
#3	61.96	-.0870	.0869	102.7	-.0135	32360.

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	-.4958	11.95	.9482	-.7590	20210.	1099.
Stddev	.0393	.08	.6142	.2355	91.	14.
%RSD	7.936	.6282	64.78	31.03	.4526	1.269
#1	-.4507	11.97	.4678	-.7202	20110.	1114.
#2	-.5229	12.02	1.640	-1.012	20280.	1094.
#3	-.5138	11.87	.7365	-.5453	20230.	1088.

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	13440.	1455.	41200.	11.90	2.470	-.2439
Stddev	61.	5.	111.	.12	2.400	.3196
%RSD	.4509	.3703	.2695	.9936	97.17	131.0
#1	13370.	1449.	41320.	11.93	.5667	-.4003
#2	13480.	1460.	41100.	12.00	5.166	-.4551
#3	13460.	1455.	41190.	11.77	1.677	.1238

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

Sample Name: 460-111982-E-4-A Acquired: 4/14/2016 14:29:10 Type: Unk
Method: sw04052016(v9) 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	2.543	.3224	-1.996	3.618	74.48	1.746
Stddev	3.440	2.370	.316	.244	.68	.434
%RSD	135.3	735.0	15.83	6.734	.9097	24.84
#1	2.368	-2.361	-2.175	3.508	75.23	1.306
#2	-.8059	1.201	-2.181	3.898	73.92	1.761
#3	6.068	2.127	-1.631	3.450	74.30	2.173

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	.3668	337.7	.7618	4208.
Stddev	1.111	.4	.1449	28.
%RSD	302.8	.1330	19.03	.6556
#1	-.9111	338.2	.9207	4227.
#2	.9113	337.3	.6369	4176.
#3	1.100	337.7	.7277	4221.

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	2937.6	39273.	5359.1
Stddev	4.1	189.	55.1
%RSD	.14005	.48081	1.0274
#1	2942.3	39437.	5420.8
#2	2934.7	39066.	5314.9
#3	2935.9	39316.	5341.7

Sample Name: CCB Acquired: 4/14/2016 14:37:00 Type: QC
Method: sw04052016(v9) 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	-4.529	-1.764	-.2628	.1232	-.0078	-9.254
Stddev	6.498	1.140	.2651	.1054	.0248	2.618
%RSD	143.5	64.63	100.9	85.61	318.4	28.30
#1	-.7144	-.8935	-.3939	.2322	.0015	-11.84
#2	-12.03	-3.055	-.4368	.1155	.0110	-9.315
#3	-.8411	-1.344	.0423	.0218	-.0359	-6.605

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	-.0851	-.1092	-.0460	-.3787	1.261	39.70
Stddev	.0221	.1464	.2002	.2663	.771	43.73
%RSD	25.94	134.1	435.2	70.30	61.14	110.1
#1	-.0742	-.1920	.1400	-.2613	1.086	88.77
#2	-.0706	.0598	-.2580	-.6835	.5924	25.50
#3	-.1105	-.1954	-.0200	-.1914	2.104	4.840

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	-2.640	.0512	7.553	-.0234	-.4093	.3132
Stddev	.822	.0223	5.872	.1799	1.672	.6152
%RSD	31.13	43.50	77.74	768.1	408.5	196.4
#1	-2.513	.0737	3.086	.1737	-1.984	.4499
#2	-1.889	.0292	14.20	-.0652	1.345	.8484
#3	-3.518	.0507	5.369	-.1788	-.5894	-.3589

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

Sample Name: CCB Acquired: 4/14/2016 14:37:00 Type: QC
Method: sw04052016(v9) 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	1.289	.1207	-.0699	.0257	-.3707	.4628
Stddev	1.586	1.034	.1444	.0424	.2729	.2769
%RSD	123.0	856.6	206.6	164.7	73.63	59.83
#1	2.547	.5062	-.2210	.0315	-.2260	.7824
#2	1.813	.9063	.0668	.0649	-.2006	.3127
#3	-.4924	-1.050	-.0556	-.0192	-.6855	.2934

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	.2149	-.0316	-.0077	-16.47
Stddev	.5904	.0932	.1961	3.92
%RSD	274.7	294.9	2539.	23.78
#1	.3026	.0601	-.1261	-20.57
#2	-.4144	-.1262	.2187	-16.08
#3	.7566	-.0287	-.1157	-12.77

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	3005.0	40385.	5389.5
Stddev	5.2	192.	51.5
%RSD	.17144	.47625	.95480
#1	3011.0	40607.	5418.7
#2	3002.0	40260.	5419.7
#3	3002.1	40289.	5330.1

Sample Name: 460-111285-A-63-A@4 Acquired: 4/14/2016 15:08:09 Type: Unk
Method: sw04052016(v10) 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	114600.	30.20	-5516	1273.	4.931	5030.
Stddev	1006.	1.58	.2514	8.	.128	38.
%RSD	.8777	5.227	45.58	.6182	2.588	.7630
#1	114400.	28.39	-.7792	1264.	4.793	4992.
#2	113700.	31.30	-.2817	1276.	4.953	5029.
#3	115700.	30.90	-.5939	1279.	5.046	5069.

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	-1.795	58.63	167.5	103.7	137800.	23450.
Stddev	.177	.41	1.3	.6	794.	114.
%RSD	9.841	.6953	.7535	.5483	.5762	.4873
#1	-1.739	58.18	167.6	103.1	137000.	23390.
#2	-1.653	58.98	166.2	103.6	138000.	23370.
#3	-1.993	58.71	168.7	104.2	138600.	23580.

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	39240.	4309.	92.61	77.77	164.2	2.566
Stddev	241.	27.	6.98	.59	.8	.695
%RSD	.6141	.6361	7.536	.7582	.4608	27.09
#1	38970.	4281.	88.62	77.12	164.4	1.808
#2	39310.	4311.	88.55	77.90	164.8	2.716
#3	39440.	4336.	100.7	78.28	163.3	3.173

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

Sample Name: 460-111285-A-63-A@4 Acquired: 4/14/2016 15:08:09 Type: Unk
Method: sw04052016(v10) 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	7.799	.2918	281.1	494.4	-2.009	4.342
Stddev	2.604	.3631	1.5	5.0	.698	.109
%RSD	33.38	124.4	.5290	1.015	34.77	2.520
#1	8.478	.6932	280.8	489.9	-1.284	4.317
#2	4.924	-.0136	279.7	493.6	-2.678	4.461
#3	9.997	.1959	282.6	499.8	-2.064	4.246

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	10.41	33.52	7499.	709.1
Stddev	.94	.28	97.	21.0
%RSD	9.017	.8391	1.295	2.959
#1	10.48	33.33	7406.	686.5
#2	11.32	33.39	7490.	712.9
#3	9.445	33.85	7600.	727.9

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	3855.1	50929.	6944.6
Stddev	8.5	336.	101.7
%RSD	.22130	.65981	1.4644
#1	3845.4	50618.	6908.2
#2	3858.8	50885.	7059.5
#3	3861.2	51286.	6866.2

Sample Name: MB 460-362460/1-A22 Acquired: 4/14/2016 15:12:10 Type: Unk
Method: sw04052016(v10) 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	-4.532	2.201	-.2370	-.0923	-.0424	-10.63
Stddev	5.589	.758	.2317	.0494	.0768	2.74
%RSD	123.3	34.45	97.74	53.52	181.3	25.81

#1	-7.771	1.750	-.1047	-.1371	-.0777	-9.719
#2	-7.746	1.777	-.5045	-.1004	.0458	-8.455
#3	1.922	3.076	-.1019	-.0393	-.0952	-13.71

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	-.0609	-.0920	.5992	-.1592	2.895	25.82
Stddev	.0776	.1378	.2898	.1904	9.175	29.89
%RSD	127.4	149.7	48.37	119.6	317.0	115.7

#1	-.0977	-.2488	.6066	-.1375	6.940	29.61
#2	-.1134	-.0369	.8853	.0195	-7.608	53.63
#3	.0282	.0097	.3058	-.3594	9.352	-5.779

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	.6148	.0589	-17.93	.1229	.4780	-.8952
Stddev	3.537	.0271	2.93	.3917	.5305	.6694
%RSD	575.3	45.93	16.33	318.8	111.0	74.78

#1	3.393	.0516	-19.06	.5444	.5595	-1.640
#2	-3.367	.0889	-20.14	.0541	-.0885	-.3435
#3	1.819	.0362	-14.61	-.2299	.9630	-.7023

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

Sample Name: MB 460-362460/1-A22 Acquired: 4/14/2016 15:12:10 Type: Unk
Method: sw04052016(v10) 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	1.233	.1164	.1625	.6907	-1.596	-.7533
Stddev	2.972	.3043	.2141	.1542	.073	.1374
%RSD	241.0	261.5	131.8	22.32	4.550	18.24
#1	1.819	.3940	.3173	.8541	-1.661	-.8095
#2	-1.988	-.2089	.2519	.5478	-1.518	-.8536
#3	3.868	.1640	-.0818	.6702	-1.610	-.5967

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	.5946	-.0442	-.1513	2.477
Stddev	.1844	.0642	.1987	13.52
%RSD	31.00	145.3	131.3	545.7
#1	.4542	-.0902	.0780	-7.818
#2	.8034	-.0715	-.2602	17.78
#3	.5263	.0291	-.2718	-2.535

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	3016.0	39974.	5289.4
Stddev	30.0	673.	179.7
%RSD	.99341	1.6848	3.3964
#1	2983.2	39622.	5160.4
#2	3022.9	39550.	5213.2
#3	3041.9	40751.	5494.6

Sample Name: LCSSRM 460-362460/2- Acquired: 4/14/2016 15:16:17 Type: Unk
Method: sw04052016(v10) 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	40620.	693.7	142.9	1524.	478.5	28050.
Stddev	371.	3.3	.2	1.	7.2	249.
%RSD	.9140	.4772	.1124	.0616	1.512	.8880

#1	40240.	697.0	142.8	1523.	470.4	28020.
#2	40650.	690.4	142.8	1525.	481.0	27820.
#3	40980.	693.6	143.1	1525.	484.2	28320.

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	450.7	817.8	751.8	854.8	76100.	11600.
Stddev	.6	2.0	3.7	3.6	630.	95.
%RSD	.1283	.2504	.4895	.4184	.8272	.8171

#1	450.1	818.7	750.7	856.3	75750.	11510.
#2	450.8	815.5	748.9	857.4	75730.	11600.
#3	451.2	819.3	756.0	850.7	76830.	11700.

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	12570.	1643.	3999.	710.2	748.7	446.5
Stddev	91.	8.	76.	1.8	4.3	.1
%RSD	.7217	.4571	1.911	.2504	.5719	.0136

#1	12570.	1640.	3911.	712.2	745.0	446.6
#2	12480.	1636.	4038.	709.6	747.8	446.6
#3	12660.	1651.	4047.	708.8	753.4	446.5

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

Sample Name: LCSSRM 460-362460/2- Acquired: 4/14/2016 15:16:17 Type: Unk
Method: sw04052016(v10) 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	877.0	764.7	574.6	996.4	686.7	612.8
Stddev	8.2	.9	3.3	4.5	1.7	.3
%RSD	.9373	.1222	.5800	.4467	.2542	.0429
#1	886.4	763.6	573.4	993.7	688.7	612.6
#2	871.2	765.2	571.9	993.9	685.4	612.8
#3	873.4	765.3	578.3	1002.	686.0	613.1

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	740.6	534.5	1918.	3166.
Stddev	1.9	4.9	4.	44.
%RSD	.2502	.9255	.2174	1.380
#1	740.8	528.8	1914.	3142.
#2	738.7	537.1	1918.	3217.
#3	742.4	537.6	1922.	3139.

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	3110.0	41591.	5625.7
Stddev	14.4	530.	127.9
%RSD	.46204	1.2736	2.2737
#1	3095.2	41257.	5630.6
#2	3123.9	42201.	5751.1
#3	3111.0	41314.	5495.4

Sample Name: 460-112069-A-1-E DU Acquired: 4/14/2016 15:20:03 Type: Unk
Method: sw04052016(v10) 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	26330.	10.97	.3855	965.0	1.089	6424.
Stddev	54.	1.55	.2089	2.4	.074	10.
%RSD	.2041	14.17	54.19	.2484	6.835	.1587
#1	26270.	10.80	.4279	965.8	1.004	6413.
#2	26340.	9.511	.5699	962.3	1.139	6429.
#3	26370.	12.61	.1586	966.8	1.125	6431.

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	1.647	16.51	57.46	430.4	57840.	1209.
Stddev	.150	.21	.28	.8	102.	5.
%RSD	9.137	1.291	.4958	.1819	.1757	.4358
#1	1.820	16.73	57.78	431.3	57940.	1213.
#2	1.549	16.49	57.26	429.9	57860.	1211.
#3	1.572	16.30	57.33	430.0	57730.	1203.

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	4085.	728.8	103.6	63.25	3882.	8.449
Stddev	7.	1.0	6.2	.13	15.	.587
%RSD	.1648	.1417	6.008	.2078	.3744	6.945
#1	4077.	728.7	100.1	63.11	3866.	8.443
#2	4089.	727.8	100.0	63.28	3888.	9.039
#3	4087.	729.9	110.8	63.37	3893.	7.866

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

Sample Name: 460-112069-A-1-E DU Acquired: 4/14/2016 15:20:03 Type: Unk
Method: sw04052016(v10) 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	8.155	-1.546	68.65	1723.	4.840	1.653
Stddev	.408	2.155	.94	8.	.457	.316
%RSD	4.998	139.4	1.374	.4371	9.439	19.12
#1	7.718	.7931	67.92	1715.	5.155	1.910
#2	8.525	-3.452	68.31	1723.	4.316	1.749
#3	8.222	-1.978	69.71	1730.	5.049	1.300

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	50.45	39.29	864.2	1578.
Stddev	.25	.20	.8	16.
%RSD	.4919	.5158	.0923	1.027
#1	50.73	39.06	865.0	1581.
#2	50.28	39.41	863.4	1560.
#3	50.33	39.40	864.3	1592.

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	3079.6	40999.	5484.0
Stddev	17.1	135.	10.7
%RSD	.55463	.32966	.19480
#1	3091.8	40854.	5492.1
#2	3086.9	41122.	5471.9
#3	3060.0	41021.	5488.0

Sample Name: 460-112069-A-1-D@4 Acquired: 4/14/2016 15:24:00 Type: Unk
Method: sw04052016(v10) 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	26170.	11.18	.5354	968.4	1.231	6487.
Stddev	103.	1.64	.6246	3.2	.192	35.
%RSD	.3916	14.69	116.6	.3300	15.59	.5352

#1	26050.	11.46	1.020	966.3	1.245	6516.
#2	26200.	12.67	-.1693	972.1	1.416	6497.
#3	26250.	9.421	.7553	966.8	1.033	6448.

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	1.478	16.50	57.04	431.0	57950.	1203.
Stddev	.099	.10	.70	2.3	340.	20.
%RSD	6.702	.5836	1.235	.5283	.5874	1.690

#1	1.448	16.61	57.68	428.9	58170.	1181.
#2	1.398	16.49	56.29	430.8	58120.	1208.
#3	1.589	16.41	57.15	433.4	57560.	1221.

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	4118.	733.8	95.07	63.24	3897.	8.019
Stddev	14.	3.2	4.45	.18	11.	.591
%RSD	.3479	.4380	4.679	.2817	.2820	7.366

#1	4133.	736.0	92.16	63.19	3907.	7.364
#2	4117.	735.2	92.86	63.44	3899.	8.183
#3	4104.	730.1	100.2	63.10	3885.	8.510

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

Sample Name: 460-112069-A-1-D@4 Acquired: 4/14/2016 15:24:00 Type: Unk
Method: sw04052016(v10) 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	4.588	-1.258	68.69	1732.	4.519	1.420
Stddev	.706	.326	.35	11.	.594	.325
%RSD	15.39	25.92	.5064	.6211	13.15	22.87
#1	4.884	-1.434	68.47	1740.	4.788	1.637
#2	3.782	-.8819	69.09	1735.	4.931	1.047
#3	5.098	-1.459	68.51	1720.	3.838	1.576

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	50.37	39.37	866.9	1595.
Stddev	.73	.29	.8	8.
%RSD	1.447	.7446	.0945	.4798
#1	51.01	39.06	867.5	1591.
#2	50.51	39.64	867.3	1590.
#3	49.58	39.41	866.0	1604.

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	3065.2	40790.	5498.7
Stddev	25.1	583.	97.5
%RSD	.81736	1.4302	1.7728
#1	3037.3	40247.	5392.0
#2	3072.3	40716.	5520.8
#3	3085.9	41407.	5583.2

Sample Name: pds 460-112069-A-1-D Acquired: 4/14/2016 15:35:43 Type: Unk
Method: sw04052016(v10) 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	27590.	1871.	46.46	2921.	48.97	25350.
Stddev	255.	7.	.71	2.	.36	83.
%RSD	.9248	.3776	1.522	.0830	.7433	.3275
#1	27370.	1877.	47.21	2922.	48.80	25310.
#2	27530.	1863.	46.36	2918.	48.71	25300.
#3	27870.	1871.	45.81	2923.	49.38	25450.

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	513.2	257.7	656.2	57000.	18250.
Stddev	.20	2.0	1.8	2.3	409.	47.
%RSD	.3986	.3988	.6831	.3533	.7173	.2554
#1	50.71	515.5	255.7	654.4	56630.	18200.
#2	50.44	511.9	259.0	655.5	56940.	18250.
#3	50.32	512.2	258.4	658.8	57440.	18290.

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.	1210.	17990.	570.6	4272.	460.4
Stddev	63.	5.	149.	1.9	25.	1.8
%RSD	.2848	.4420	.8274	.3344	.5799	.3815
#1	22010.	1207.	17860.	572.6	4251.	461.3
#2	21910.	1208.	17960.	570.4	4266.	461.6
#3	22030.	1216.	18150.	568.8	4300.	458.4

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

Sample Name: pds 460-112069-A-1-D Acquired: 4/14/2016 15:35:43 Type: Unk
Method: sw04052016(v10) 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.	2051.	555.8	2176.	491.2	487.0
Stddev	18.	4.	1.3	12.	2.5	1.9
%RSD	.9419	.2180	.2282	.5378	.5027	.3913
#1	1911.	2054.	554.3	2164.	494.0	488.6
#2	1882.	2054.	556.6	2178.	489.7	487.5
#3	1879.	2046.	556.4	2187.	489.8	484.9

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	543.4	517.9	1334.	1630.
Stddev	.9	.4	6.	15.
%RSD	.1634	.0685	.4129	.9141
#1	544.5	517.7	1330.	1647.
#2	543.1	517.7	1332.	1621.
#3	542.8	518.3	1341.	1622.

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	2990.6	40096.	5457.8
Stddev	7.2	178.	69.4
%RSD	.24115	.44440	1.2717
#1	2988.2	40192.	5507.6
#2	2998.7	40206.	5487.2
#3	2984.9	39891.	5378.5

Sample Name: sd 460-112069-A-1-D Acquired: 4/14/2016 15:27:56 Type: Unk
Method: sw04052016(v10) 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	5093.	1.269	-1.1383	194.6	.2035	1279.
Stddev	61.	.693	.3349	2.0	.0879	25.
%RSD	1.198	54.56	242.2	1.040	43.18	1.978

#1	5028.	.6241	-.3299	192.4	.1025	1253.
#2	5101.	2.001	-.3335	194.9	.2459	1282.
#3	5149.	1.182	.2484	196.4	.2623	1303.

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	.2772	3.242	11.41	84.50	11540.	246.2
Stddev	.0380	.062	.28	1.27	108.	20.8
%RSD	13.71	1.904	2.448	1.500	.9344	8.439

#1	.2538	3.314	11.40	83.38	11410.	264.6
#2	.2568	3.202	11.14	84.24	11590.	250.3
#3	.3211	3.212	11.70	85.88	11610.	223.7

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	818.3	147.2	11.33	12.42	781.0	2.000
Stddev	10.9	2.0	5.23	.15	8.0	1.337
%RSD	1.334	1.370	46.14	1.169	1.030	66.88

#1	807.1	145.1	6.184	12.59	773.1	1.501
#2	819.0	147.5	11.18	12.31	780.8	3.514
#3	828.9	149.1	16.64	12.36	789.2	.9830

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

Sample Name: sd 460-112069-A-1-D Acquired: 4/14/2016 15:27:56 Type: Unk
 Method: sw04052016(v10) 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	1.158	-.3998	13.38	348.4	-.3107	-.2270
Stddev	3.484	1.878	.39	4.6	.5253	.1409
%RSD	300.9	469.7	2.906	1.321	169.1	62.07
#1	4.975	-2.414	12.97	343.5	-.4419	-.3459
#2	.3490	-.0876	13.41	349.0	-.7580	-.0714
#3	-1.851	1.303	13.75	352.6	.2678	-.2637

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	10.36	7.636	171.0	311.6
Stddev	1.15	.130	1.7	11.0
%RSD	11.14	1.702	1.013	3.537
#1	9.160	7.497	169.2	310.1
#2	11.46	7.657	171.3	301.3
#3	10.45	7.754	172.7	323.2

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	3048.0	41054.	5562.3
Stddev	11.8	191.	28.5
%RSD	.38848	.46433	.51317
#1	3060.7	41233.	5595.0
#2	3037.3	41075.	5542.4
#3	3046.0	40854.	5549.5

Sample Name: 460-112069-A-1-F MS Acquired: 4/14/2016 15:31:55 Type: Unk
Method: sw04052016(v10) 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	29410.	978.4	24.40	1760.	26.24	16190.
Stddev	22.	.8	.21	2.	.22	84.
%RSD	.0734	.0795	.8470	.1384	.8331	.5207

#1	29430.	979.2	24.16	1760.	26.11	16280.
#2	29410.	977.6	24.53	1759.	26.49	16160.
#3	29390.	978.5	24.51	1763.	26.11	16120.

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	27.14	276.6	168.1	476.6	51110.	10310.
Stddev	.04	.9	.8	3.3	129.	66.
%RSD	.1504	.3347	.4530	.7007	.2529	.6439

#1	27.10	275.7	169.0	473.8	51190.	10310.
#2	27.14	276.6	167.8	480.3	50960.	10370.
#3	27.18	277.6	167.6	475.8	51180.	10240.

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	13390.	927.9	9359.	333.6	3253.	186.9
Stddev	20.	2.5	13.	.2	8.	.6
%RSD	.1465	.2644	.1346	.0578	.2352	.3430

#1	13410.	930.7	9358.	333.7	3248.	187.4
#2	13390.	926.0	9372.	333.4	3250.	187.1
#3	13370.	927.2	9347.	333.8	3262.	186.2

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

Sample Name: 460-112069-A-1-F MS Acquired: 4/14/2016 15:31:55 Type: Unk
Method: sw04052016(v10) 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	990.0	1079.	327.7	1764.	256.2	254.1
Stddev	2.5	10.	.7	7.	.6	.5
%RSD	.2492	.9226	.2057	.3988	.2187	.2016
#1	987.6	1071.	327.0	1759.	255.7	253.6
#2	989.8	1076.	328.0	1760.	256.1	254.7
#3	992.5	1090.	328.3	1772.	256.8	254.1

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	301.4	286.8	1190.	1932.
Stddev	.5	1.3	3.	57.
%RSD	.1630	.4557	.2775	2.948
#1	301.7	285.8	1188.	1867.
#2	301.7	288.3	1189.	1971.
#3	300.8	286.3	1194.	1958.

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	3021.1	40699.	5556.5
Stddev	6.2	404.	172.5
%RSD	.20578	.99359	3.1041
#1	3014.0	40232.	5362.7
#2	3023.5	40935.	5613.8
#3	3025.7	40929.	5693.1

Sample Name: CCV Acquired: 4/14/2016 15:47:19 Type: QC
Method: sw04052016(v10) 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	118200.	2495.	1223.	10230.	963.6	125400.
Stddev	93.	11.	2.	9.	.6	256.
%RSD	.0790	.4595	.1829	.0869	.0573	.2041

#1	118100.	2505.	1222.	10220.	963.0	125500.
#2	118200.	2496.	1222.	10230.	963.9	125100.
#3	118200.	2483.	1226.	10230.	964.0	125500.

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	1257.	2515.	5083.	12550.	97490.	48430.
Stddev	2.	4.	.	5.	256.	56.
%RSD	.1432	.1649	.0097	.0397	.2623	.1166

#1	1256.	2510.	5082.	12550.	97660.	48440.
#2	1255.	2517.	5083.	12540.	97200.	48360.
#3	1259.	2517.	5083.	12550.	97620.	48470.

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	121000.	5077.	117600.	2565.	7373.	983.9
Stddev	351.	6.	235.	3.	20.	1.5
%RSD	.2904	.1240	.1994	.1291	.2739	.1538

#1	121100.	5083.	117800.	2562.	7366.	983.9
#2	120600.	5071.	117700.	2566.	7356.	985.4
#3	121200.	5075.	117300.	2568.	7395.	982.4

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

Sample Name: CCV Acquired: 4/14/2016 15:47:19 Type: QC
Method: sw04052016(v10) 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	2517.	2538.	2499.	2466.	1020.	2531.
Stddev	7.	8.	2.	10.	.	3.
%RSD	.2833	.3007	.0838	.4244	.0483	.1226
#1	2524.	2542.	2501.	2461.	1021.	2528.
#2	2515.	2542.	2497.	2460.	1020.	2534.
#3	2510.	2529.	2498.	2478.	1020.	2532.

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	1018.	4983.	9813.	9826.
Stddev	.	3.	68.	57.
%RSD	.0462	.0540	.6916	.5805
#1	1019.	4981.	9846.	9826.
#2	1018.	4986.	9735.	9883.
#3	1018.	4982.	9859.	9769.

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	2820.9	38110.	5410.0
Stddev	17.2	203.	44.4
%RSD	.60943	.53351	.81989
#1	2831.8	38202.	5426.9
#2	2829.8	38251.	5443.3
#3	2801.1	37877.	5359.6

Sample Name: 460-112044-E-21-A@4 Acquired: 4/14/2016 15:39:26 Type: Unk
 Method: sw04052016(v10) 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	46550.	103.6	1.529	801.2	2.486	7523.
Stddev	289.	1.3	.256	.0	.017	62.
%RSD	.6198	1.222	16.73	.0029	.6635	.8191

#1	46500.	104.0	1.420	801.2	2.486	7453.
#2	46290.	102.1	1.346	801.2	2.469	7568.
#3	46860.	104.6	1.821	801.2	2.502	7549.

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	2.508	59.30	136.6	202.6	94410.	2749.
Stddev	.085	.34	.7	.8	408.	4.
%RSD	3.387	.5735	.4914	.3854	.4320	.1344

#1	2.605	59.01	136.4	201.7	93950.	2745.
#2	2.468	59.22	136.0	203.1	94710.	2752.
#3	2.449	59.68	137.3	203.0	94590.	2750.

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	6775.	1129.	136.0	59.05	1377.	5.398
Stddev	57.	6.	6.0	.48	5.	1.475
%RSD	.8464	.5421	4.449	.8048	.3406	27.33

#1	6718.	1122.	140.2	58.88	1374.	4.162
#2	6832.	1133.	129.0	58.68	1375.	5.000
#3	6774.	1131.	138.7	59.59	1382.	7.031

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

Sample Name: 460-112044-E-21-A@4 Acquired: 4/14/2016 15:39:26 Type: Unk
Method: sw04052016(v10) 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	9.825	-1.622	138.5	837.0	7.477	3.711
Stddev	3.251	1.847	1.0	2.8	.532	.034
%RSD	33.09	1139.	.7190	.3376	7.113	.9266
#1	6.273	.6867	137.6	833.8	7.885	3.728
#2	12.65	-2.281	138.3	837.8	7.671	3.671
#3	10.55	1.107	139.6	839.3	6.876	3.733

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	25.15	47.54	1326.	1764.
Stddev	1.32	.29	4.	13.
%RSD	5.241	.6111	.2958	.7209
#1	26.62	47.57	1322.	1777.
#2	24.73	47.23	1327.	1751.
#3	24.08	47.81	1329.	1763.

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	3154.4	42242.	5741.5
Stddev	11.9	214.	105.7
%RSD	.37745	.50718	1.8417
#1	3142.0	42204.	5862.9
#2	3155.4	42049.	5669.4
#3	3165.7	42473.	5692.3

Sample Name: 460-111991-A-2-C@10 Acquired: 4/14/2016 15:59:20 Type: QC
Method: sw04052016(v10) 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	F 34900.	F 2012.	3.630	F 1447.	F 10.35	F 14740.
Stddev	321.	3.	.655	5.	.11	133.
%RSD	.9199	.1372	18.06	.3636	1.033	.9017

#1	34600.	2010.	3.428	1450.	10.23	14590.
#2	34850.	2015.	4.363	1441.	10.43	14770.
#3	35240.	2010.	3.099	1451.	10.39	14850.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit	200.0	15.00		200.0	2.000	5000.
Low Limit	-200.0	-15.00		-200.0	-2.000	-5000.

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	F 81.19	F 283.4	F 441.6	F 12960.	F 567900.	F 13240.
Stddev	.60	.9	4.2	36.	4167.	108.
%RSD	.7433	.3196	.9467	.2795	.7338	.8173

#1	81.79	282.4	436.8	12930.	563300.	13140.
#2	81.18	283.7	443.4	12960.	569300.	13240.
#3	80.59	284.1	444.6	13000.	571200.	13350.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
High Limit	4.000	50.00	10.00	25.00	150.0	5000.
Low Limit	-4.000	-50.00	-10.00	-25.00	-150.0	-5000.

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	F 8449.	F 1068.	3977.	F 283.9	F 2448.	F 123.6
Stddev	63.	7.	40.	1.0	16.	2.7
%RSD	.7418	.6299	1.001	.3625	.6672	2.196

#1	8377.	1060.	3952.	282.7	2429.	124.1
#2	8484.	1069.	3957.	284.6	2459.	126.0
#3	8486.	1074.	4023.	284.4	2455.	120.6

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit	5000.	15.00		40.00	10.00	20.00
Low Limit	-5000.	-15.00		-40.00	-10.00	-20.00

Sample Name: 460-111991-A-2-C@10 Acquired: 4/14/2016 15:59:20 Type: QC
Method: sw04052016(v10) 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	F 37.24	1.716	30.97	F 10500.	F 73.24	F 1895.
Stddev	3.96	2.246	.95	64.	.22	7.
%RSD	10.64	130.8	3.074	.6140	.3003	.3686

#1	38.32	-8.168	30.62	10430.	73.36	1890.
#2	40.56	2.504	30.25	10520.	72.99	1893.
#3	32.85	3.462	32.05	10550.	73.38	1903.

Check ?	Chk Fail	Chk Pass	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit	20.00			30.00	50.00	20.00
Low Limit	-20.00			-30.00	-50.00	-20.00

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	F 454.7	F 243.9	F 1868.	1313.
Stddev	3.5	1.5	8.	28.
%RSD	.7628	.6011	.4467	2.117

#1	450.7	242.6	1859.	1345.
#2	457.0	243.6	1870.	1293.
#3	456.3	245.5	1875.	1302.

Check ?	Chk Fail	Chk Fail	Chk Fail	None
High Limit	50.00	20.00	20.00	
Low Limit	-50.00	-20.00	-20.00	

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	2950.7	39555.	5516.4
Stddev	9.7	193.	70.5
%RSD	.32909	.48714	1.2772

#1	2951.9	39777.	5597.7
#2	2940.5	39449.	5477.4
#3	2959.8	39437.	5474.1

Sample Name: 460-111991-A-1-C@10 Acquired: 4/14/2016 15:43:25 Type: Unk
Method: sw04052016(v10) 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	43770.	26.39	1.389	628.0	3.742	17230.
Stddev	177.	1.90	.076	1.0	.067	66.
%RSD	.4049	7.190	5.507	.1515	1.792	.3847
#1	43810.	26.57	1.475	629.1	3.666	17170.
#2	43920.	28.19	1.327	627.7	3.791	17240.
#3	43570.	24.41	1.367	627.3	3.770	17300.

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	-1.976	39.52	306.7	1016.	F 211200.	5735.
Stddev	.212	.36	2.0	5.	64.	22.
%RSD	10.74	.9090	.6495	.5239	.0302	.3864
#1	-2.193	39.12	304.5	1010.	211300.	5718.
#2	-1.968	39.62	308.4	1015.	211200.	5726.
#3	-1.768	39.82	307.3	1021.	211200.	5760.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

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	3336.	1513.	1827.	282.3	151.6	7.836
Stddev	26.	5.	9.	1.9	1.7	.989
%RSD	.7672	.3576	.5195	.6634	1.135	12.62
#1	3307.	1507.	1824.	280.3	152.1	7.119
#2	3351.	1513.	1837.	282.4	149.7	7.426
#3	3351.	1518.	1819.	284.0	153.0	8.964

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

Sample Name: 460-111991-A-1-C@10 Acquired: 4/14/2016 15:43:25 Type: Unk
Method: sw04052016(v10) 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	14.16	-1.465	73.05	740.6	37.14	203.1
Stddev	3.39	.955	.03	2.4	.61	.7
%RSD	23.97	65.22	.0342	.3303	1.654	.3218
#1	13.83	-.7400	73.02	739.0	37.15	202.4
#2	17.71	-1.107	73.07	739.5	36.51	203.4
#3	10.94	-2.547	73.06	743.5	37.74	203.6

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	55.10	461.2	1328.	824.7
Stddev	1.41	2.4	3.	26.6
%RSD	2.565	.5157	.2588	3.219
#1	56.73	461.0	1325.	854.4
#2	54.23	463.7	1328.	816.4
#3	54.34	458.9	1332.	803.3

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	3061.3	41260.	5692.5
Stddev	1.3	58.	22.8
%RSD	.04298	.14016	.40136
#1	3060.0	41308.	5696.1
#2	3062.6	41276.	5668.1
#3	3061.3	41196.	5713.3

Sample Name: 460-112006-A-3-B@4 Acquired: 4/14/2016 16:10:55 Type: Unk
Method: sw04052016(v10) 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	25850.	7.449	-.2960	172.1	1.113	226900.
Stddev	425.	1.858	.8023	3.1	.082	4605.
%RSD	1.645	24.95	271.0	1.820	7.393	2.030

#1	25450.	8.546	-.0656	168.4	1.116	222000.
#2	25800.	5.303	-1.188	174.0	1.029	227600.
#3	26290.	8.497	.3658	173.8	1.193	231200.

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	.2951	18.90	36.48	40.37	37810.	11790.
Stddev	.0545	.40	1.17	.41	687.	204.
%RSD	18.46	2.094	3.215	1.026	1.817	1.727

#1	.2387	18.66	35.25	39.95	37070.	11610.
#2	.3474	18.69	36.59	40.39	37940.	11750.
#3	.2994	19.36	37.59	40.78	38430.	12010.

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	10220.	1058.	10530.	28.47	40.29	-1.629
Stddev	199.	19.	193.	.54	.49	1.270
%RSD	1.948	1.810	1.827	1.891	1.215	77.94

#1	10010.	1038.	10370.	27.87	39.93	-1.044
#2	10230.	1061.	10490.	28.63	40.11	-.7568
#3	10410.	1076.	10740.	28.91	40.85	-3.085

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

Sample Name: 460-112006-A-3-B@4 Acquired: 4/14/2016 16:10:55 Type: Unk
Method: sw04052016(v10) 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	4.299	-2.008	31.98	126.1	73.47	1.743
Stddev	2.675	1.240	.91	5.9	1.56	1.143
%RSD	62.22	61.74	2.835	4.654	2.122	65.61
#1	1.373	-1.555	30.95	121.1	72.11	1.261
#2	4.906	-1.058	32.32	132.6	73.14	3.048
#3	6.618	-3.410	32.66	124.5	75.17	.9192

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	59.38	1898.	824.3	2834.
Stddev	.40	27.	13.9	22.
%RSD	.6764	1.441	1.688	.7684
#1	59.19	1871.	810.1	2810.
#2	59.84	1898.	824.9	2850.
#3	59.10	1926.	837.9	2843.

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	2888.5	39132.	5614.2
Stddev	10.6	122.	13.4
%RSD	.36563	.31092	.23786
#1	2876.3	39254.	5616.3
#2	2895.6	39011.	5626.4
#3	2893.5	39131.	5599.9

Sample Name: 460-112006-A-6-B@4 Acquired: 4/14/2016 16:23:06 Type: Unk
Method: sw04052016(v10) 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	50120.	13.85	-1.783	378.7	2.043	F 443600.
Stddev	457.	2.87	.2935	1.9	.081	3356.
%RSD	.9117	20.71	164.7	.5050	3.947	.7566

#1	49890.	13.21	-.4876	377.4	2.015	439700.
#2	49830.	16.98	-.1436	377.9	1.980	445000.
#3	50650.	11.35	.0964	380.9	2.134	446000.

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	-.0303	18.58	63.22	137.8	57260.	18760.
Stddev	.0975	.29	.85	.3	397.	98.
%RSD	321.9	1.562	1.346	.2443	.6934	.5228

#1	-.0818	18.57	62.24	137.5	56820.	18690.
#2	.0822	18.29	63.79	138.1	57340.	18720.
#3	-.0913	18.87	63.62	137.9	57610.	18870.

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	20290.	2011.	9499.	50.22	39.14	-.0997
Stddev	109.	5.	104.	.61	.56	1.436
%RSD	.5355	.2655	1.099	1.221	1.420	1440.

#1	20170.	2005.	9461.	49.74	38.51	-1.046
#2	20330.	2012.	9420.	50.01	39.31	1.553
#3	20380.	2015.	9617.	50.91	39.59	-.8062

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

Sample Name: 460-112006-A-6-B@4 Acquired: 4/14/2016 16:23:06 Type: Unk
Method: sw04052016(v10) 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	.7840	-1.374	60.99	208.9	80.12	.7935
Stddev	4.178	1.740	.25	1.2	.29	.1980
%RSD	532.9	126.6	.4111	.5822	.3599	24.95
#1	.9514	-2.917	60.94	207.8	79.92	.7232
#2	-3.475	-1.717	60.77	208.8	80.45	.6403
#3	4.876	.5112	61.27	210.2	80.00	1.017

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	5.411	5211.	1521.	2629.
Stddev	.575	30.	7.	13.
%RSD	10.62	.5799	.4411	.4943
#1	5.834	5200.	1513.	2621.
#2	4.757	5188.	1523.	2644.
#3	5.642	5246.	1526.	2621.

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	2912.6	39212.	5543.5
Stddev	16.4	227.	19.2
%RSD	.56360	.57886	.34551
#1	2905.0	38976.	5534.5
#2	2901.3	39230.	5565.5
#3	2931.4	39429.	5530.6

Sample Name: CCB Acquired: 4/14/2016 15:51:09 Type: QC
Method: sw04052016(v10) 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	-8.190	-1.896	.9087	.0310	-.0278	49.70
Stddev	5.316	.808	.8318	.0963	.0036	111.1
%RSD	64.91	42.59	91.54	310.4	12.80	223.5
#1	-2.224	-2.176	1.857	.1262	-.0314	178.0
#2	-12.43	-2.527	.3044	-.0663	-.0242	-14.23
#3	-9.922	-.9861	.5643	.0332	-.0279	-14.64

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	-.0620	-.1929	2.519	5.685	138.8	25.20
Stddev	.0414	.2340	3.941	10.66	256.7	21.09
%RSD	66.81	121.3	156.5	187.6	185.0	83.68
#1	-.0422	-.3098	7.059	18.00	435.2	45.61
#2	-.1097	.0766	.5297	-.3614	-12.74	3.500
#3	-.0342	-.3454	-.0309	-.5811	-6.116	26.48

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	53.74	3.251	7.199	-.4254	-.8704	.2194
Stddev	97.93	5.628	9.707	.4007	1.407	1.878
%RSD	182.2	173.1	134.8	94.19	161.6	855.9
#1	166.8	9.749	14.43	-.4850	-1.882	-.0773
#2	-2.091	-.0172	-3.833	.0017	-1.465	-1.493
#3	-3.505	.0199	11.00	-.7931	.7361	2.228

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

Sample Name: CCB Acquired: 4/14/2016 15:51:09 Type: QC
Method: sw04052016(v10) 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	1.648	-.2195	1.099	-.1177	-.7772	.4686
Stddev	4.489	1.736	2.034	.2996	.6104	.5656
%RSD	272.4	791.0	185.2	254.7	78.53	120.7
#1	-3.518	1.287	3.433	.0712	-.4235	.9610
#2	3.860	-2.118	.1534	.0389	-1.482	.5940
#3	4.601	.1729	-.2909	-.4631	-.4262	-.1491

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	.6499	.0196	5.202	-11.07
Stddev	.4069	.0541	9.285	4.27
%RSD	62.61	275.5	178.5	38.61
#1	1.071	.0666	15.92	-10.55
#2	.6198	.0320	-.1390	-7.075
#3	.2588	-.0396	-.1782	-15.57

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	3006.9	40260.	5443.8
Stddev	5.5	238.	81.5
%RSD	.18420	.59109	1.4972
#1	3001.2	40418.	5530.3
#2	3012.3	40377.	5432.5
#3	3007.2	39987.	5368.5

Sample Name: CCVL Acquired: 4/14/2016 15:55:17 Type: QC
Method: sw04052016(v10) 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	206.2	12.04	9.702	216.3	2.014	5200.
Stddev	10.4	1.84	.198	1.0	.099	53.
%RSD	5.021	15.27	2.037	.4536	4.918	1.014

#1	211.1	13.53	9.489	215.5	2.127	5141.
#2	194.3	12.62	9.738	217.4	1.974	5215.
#3	213.1	9.986	9.880	216.0	1.942	5243.

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	4.164	53.98	11.01	24.39	157.4	4767.
Stddev	.143	.06	.38	.17	4.0	11.
%RSD	3.445	.1071	3.432	.7110	2.535	.2327

#1	4.020	54.02	11.27	24.26	152.8	4780.
#2	4.307	54.01	11.17	24.59	159.6	4761.
#3	4.164	53.92	10.57	24.32	159.9	4760.

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	4855.	16.38	4562.	44.70	11.68	19.20
Stddev	29.	.14	37.	.56	.91	.66
%RSD	.5966	.8533	.8149	1.253	7.779	3.413

#1	4823.	16.28	4584.	44.52	10.85	19.17
#2	4861.	16.33	4582.	44.26	11.54	18.55
#3	4880.	16.54	4519.	45.33	12.65	19.86

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

Sample Name: CCVL Acquired: 4/14/2016 15:55:17 Type: QC
Method: sw04052016(v10) 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	19.51	21.94	51.63	31.70	50.75	20.42
Stddev	.82	.98	.36	.36	.32	.16
%RSD	4.218	4.460	.6890	1.122	.6335	.7842
#1	18.78	21.74	51.23	31.32	50.40	20.45
#2	19.36	21.07	51.74	32.03	51.02	20.25
#3	20.40	23.00	51.91	31.77	50.84	20.56

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	20.66	20.31	F -13.82
Stddev	.34	.18	.05	12.07
%RSD	.6394	.8540	.2219	87.35
#1	52.21	20.86	20.36	-25.55
#2	52.85	20.58	20.31	-14.48
#3	52.35	20.54	20.27	-1.432

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	2985.1	39894.	5451.1
Stddev	24.0	422.	77.3
%RSD	.80276	1.0573	1.4184
#1	3011.0	40367.	5537.1
#2	2980.9	39756.	5387.3
#3	2963.6	39558.	5429.0

Sample Name: 460-111991-A-3-C@10 Acquired: 4/14/2016 16:03:11 Type: QC
Method: sw04052016(v10) 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	F 33050.	F 267.5	F 2.004	F 3908.	F 3.839	17290.
Stddev	126.	1.2	.280	13.	.043	39.
%RSD	.3819	.4453	13.99	.3346	1.133	.2232

#1	33030.	266.7	1.694	3894.	3.874	17250.
#2	32950.	268.9	2.239	3909.	3.790	17330.
#3	33190.	267.0	2.079	3920.	3.853	17300.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass
Value	2000.	2000.	50.00	2000.	50.00	
Range	20.00%	-20.00%	-20.00%	20.00%	-20.00%	

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	F 9.579	F 213.1	F 391.8	F 6251.	F 308200.	F 6278.
Stddev	.266	1.3	.3	22.	459.	17.
%RSD	2.780	.5889	.0831	.3538	.1489	.2734

#1	9.809	212.0	392.1	6244.	307800.	6268.
#2	9.287	212.9	391.4	6233.	308700.	6268.
#3	9.640	214.4	391.8	6275.	308100.	6298.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	50.00	500.0	200.0	250.0	1000.	20000.
Range	-20.00%	-20.00%	20.00%	20.00%	20.00%	-20.00%

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	F 7166.	F 860.5	F 2709.	F 355.4	F 1585.	F 63.68
Stddev	18.	1.3	11.	2.4	3.	.90
%RSD	.2525	.1484	.3911	.6666	.1994	1.406

#1	7187.	859.1	2718.	355.5	1585.	63.32
#2	7157.	861.6	2697.	353.0	1582.	63.02
#3	7153.	860.9	2711.	357.8	1588.	64.70

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	20000.	500.0	20000.	500.0	500.0	500.0
Range	-20.00%	20.00%	-20.00%	-20.00%	20.00%	-20.00%

Sample Name: 460-111991-A-3-C@10 Acquired: 4/14/2016 16:03:11 Type: QC
Method: sw04052016(v10) 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	F 19.65	F -.1118	F 55.24	F 5416.	F 34.62	F 2100.
Stddev	5.11	.0690	.22	5.	.88	5.
%RSD	26.02	61.70	.4060	.0846	2.553	.2438

#1	22.87	-.1813	55.11	5412.	34.56	2095.
#2	22.34	-.1106	55.11	5415.	33.77	2099.
#3	13.75	-.0434	55.50	5421.	35.53	2105.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail
Value	2000.	2000.	500.0	500.0	500.0	500.0
Range	-20.00%	-20.00%	-20.00%	20.00%	-20.00%	20.00%

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	F 293.4	F 324.8	F 1478.	1226.
Stddev	2.2	1.0	1.	28.
%RSD	.7540	.3151	.0444	2.315

#1	291.8	325.1	1478.	1258.
#2	292.4	323.7	1478.	1218.
#3	295.9	325.6	1477.	1203.

Check ?	Chk Fail	Chk Fail	Chk Fail	None
Value	500.0	500.0	500.0	
Range	-20.00%	-20.00%	20.00%	

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	3050.0	40970.	5648.4
Stddev	3.6	116.	67.0
%RSD	.11946	.28364	1.1860

#1	3045.9	41032.	5709.0
#2	3053.0	40836.	5659.7
#3	3051.0	41042.	5576.5

Sample Name: 460-111991-A-4-C@10 Acquired: 4/14/2016 16:07:03 Type: Unk
Method: sw04052016(v10) 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	15540.	987.5	1.657	596.8	5.168	7149.
Stddev	39.	.8	.346	2.1	.184	19.
%RSD	.2479	.0782	20.86	.3492	3.567	.2689

#1	15530.	988.3	2.030	594.8	5.120	7127.
#2	15580.	987.4	1.594	596.7	5.372	7160.
#3	15500.	986.8	1.348	599.0	5.012	7160.

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	43.45	151.6	229.2	6705.	F 298700.	6070.
Stddev	.38	.7	1.4	21.	543.	27.
%RSD	.8630	.4547	.6290	.3177	.1819	.4487

#1	43.09	150.9	227.7	6685.	298400.	6038.
#2	43.43	151.8	229.4	6703.	299300.	6086.
#3	43.84	152.2	230.6	6727.	298300.	6086.

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass
High Limit					200000.	
Low Limit					-150.0	

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	4437.	586.3	1893.	157.0	1306.	75.04
Stddev	12.	1.3	8.	.4	3.	1.25
%RSD	.2649	.2167	.3963	.2790	.2563	1.661

#1	4426.	585.0	1901.	156.5	1302.	76.19
#2	4435.	586.2	1886.	157.1	1308.	73.71
#3	4449.	587.5	1891.	157.3	1306.	75.21

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

Sample Name: 460-111991-A-4-C@10 Acquired: 4/14/2016 16:07:03 Type: Unk
Method: sw04052016(v10) 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	18.90	-5295	15.10	F 5546.	36.27	989.3
Stddev	1.01	1.654	.29	15.	.25	4.5
%RSD	5.363	312.4	1.948	.2670	.6770	.4551
#1	17.82	.7531	15.43	5548.	36.51	984.4
#2	19.05	.0547	15.01	5560.	36.28	990.3
#3	19.83	-2.396	14.87	5530.	36.02	993.2

Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit				5000.		
Low Limit				-50.00		

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	261.8	106.5	912.6	1706.
Stddev	1.3	.5	2.0	69.
%RSD	.4813	.4868	.2177	4.039
#1	260.3	106.0	911.0	1786.
#2	262.6	107.0	911.9	1665.
#3	262.4	106.7	914.8	1667.

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	2974.3	39999.	5455.1
Stddev	31.6	330.	53.0
%RSD	1.0619	.82566	.97105
#1	2952.0	39808.	5495.6
#2	2960.6	39809.	5395.1
#3	3010.5	40380.	5474.6

Sample Name: 460-112006-A-4-B@4 Acquired: 4/14/2016 16:14:56 Type: Unk
Method: sw04052016(v10) 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	25650.	1.892	-4497	135.4	.9479	199400.
Stddev	43.	1.044	.2120	1.3	.0216	1348.
%RSD	.1668	55.15	47.14	.9482	2.278	.6760

#1	25640.	2.795	-.5703	134.0	.9278	197800.
#2	25610.	.7496	-.5739	135.8	.9451	200100.
#3	25700.	2.132	-.2049	136.5	.9707	200200.

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	-.1898	14.83	36.10	21.30	43420.	11910.
Stddev	.0564	.08	.29	.05	324.	71.
%RSD	29.71	.5706	.7983	.2188	.7450	.5972

#1	-.1434	14.92	36.34	21.35	43080.	11880.
#2	-.1735	14.75	36.18	21.28	43720.	11850.
#3	-.2526	14.82	35.78	21.26	43470.	11990.

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	12200.	475.9	9199.	37.19	15.46	-.7329
Stddev	62.	3.3	43.	.23	.78	.6633
%RSD	.5065	.6946	.4638	.6154	5.070	90.50

#1	12130.	472.1	9159.	36.99	16.32	-1.339
#2	12240.	477.4	9194.	37.44	15.25	-.8345
#3	12240.	478.2	9244.	37.15	14.80	-.0246

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

Sample Name: 460-112006-A-4-B@4 Acquired: 4/14/2016 16:14:56 Type: Unk
Method: sw04052016(v10) 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	2.073	-2.811	31.27	105.0	69.55	-.3584
Stddev	2.422	2.286	.31	.9	.96	.2393
%RSD	116.8	81.31	1.004	.8506	1.378	66.78
#1	.2913	-3.912	30.90	104.0	68.58	-.3802
#2	4.831	-.1831	31.43	105.3	69.58	-.5860
#3	1.097	-4.337	31.47	105.8	70.50	-.1089

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	37.70	1316.	442.1	1169.
Stddev	1.46	9.	2.8	16.
%RSD	3.866	.7070	.6408	1.334
#1	39.29	1310.	438.8	1154.
#2	37.36	1312.	443.9	1168.
#3	36.43	1327.	443.5	1185.

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	2914.1	39348.	5565.6
Stddev	14.9	242.	46.6
%RSD	.50994	.61482	.83749
#1	2901.1	39215.	5512.0
#2	2911.0	39202.	5588.7
#3	2930.3	39628.	5596.3

Sample Name: 460-112006-A-5-B@4 Acquired: 4/14/2016 16:18:58 Type: Unk
Method: sw04052016(v10) 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	43090.	10.65	-1.877	280.8	1.820	F 411900.
Stddev	793.	2.62	.8953	3.4	.039	4671.
%RSD	1.840	24.55	477.0	1.201	2.155	1.134
#1	42260.	13.65	-.3253	277.3	1.825	406700.
#2	43170.	8.844	.7684	281.0	1.778	413200.
#3	43840.	9.460	-1.006	284.1	1.856	415800.
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	.5464	20.64	60.03	107.0	50810.	21770.
Stddev	.1599	.14	.92	2.1	896.	284.
%RSD	29.26	.6580	1.524	1.953	1.763	1.305
#1	.6066	20.72	59.05	105.2	49840.	21470.
#2	.3652	20.48	60.87	106.6	50970.	21800.
#3	.6675	20.71	60.17	109.3	51610.	22030.
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	19930.	1418.	18860.	53.87	31.61	1.919
Stddev	229.	17.	506.	.73	1.18	1.710
%RSD	1.149	1.164	2.686	1.354	3.724	89.10
#1	19680.	1400.	18330.	53.55	30.61	3.310
#2	19980.	1422.	18900.	53.36	32.90	.0102
#3	20130.	1432.	19340.	54.71	31.31	2.437
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112006-A-5-B@4 Acquired: 4/14/2016 16:18:58 Type: Unk
Method: sw04052016(v10) 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	3.434	-1.037	51.43	271.7	127.0	2.338
Stddev	.844	2.727	.72	3.8	1.1	.218
%RSD	24.58	263.0	1.405	1.388	.8754	9.311
#1	2.469	.6858	50.61	267.4	126.0	2.351
#2	3.797	.3848	51.98	273.3	127.0	2.548
#3	4.036	-4.181	51.69	274.4	128.2	2.113

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	16.60	2150.	1119.	2590.
Stddev	.73	33.	18.	22.
%RSD	4.417	1.549	1.577	.8414
#1	16.97	2114.	1100.	2569.
#2	15.76	2159.	1121.	2590.
#3	17.08	2179.	1135.	2612.

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	2902.2	38809.	5527.0
Stddev	14.2	195.	10.5
%RSD	.48978	.50330	.19081
#1	2885.8	38623.	5515.8
#2	2909.3	38792.	5528.5
#3	2911.4	39012.	5536.7

Sample Name: 460-112006-A-7-B@4 Acquired: 4/14/2016 16:27:16 Type: Unk
Method: sw04052016(v10) 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	32720.	27.90	-4.734	514.7	2.664	F 308300.
Stddev	64.	2.27	.1354	1.7	.080	1823.
%RSD	.1947	8.145	28.60	.3361	3.007	.5913
#1	32750.	28.60	-.3396	512.7	2.756	306900.
#2	32770.	25.35	-.4703	515.9	2.608	307600.
#3	32650.	29.73	-.6103	515.4	2.628	310400.
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	-.7769	25.14	102.9	68.26	72950.	10570.
Stddev	.1249	.20	1.4	.78	234.	46.
%RSD	16.07	.7890	1.390	1.142	.3201	.4368
#1	-.8605	24.94	102.4	67.58	72790.	10580.
#2	-.8369	25.14	101.9	68.09	72850.	10520.
#3	-.6334	25.33	104.6	69.11	73220.	10610.
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	18650.	445.2	9623.	77.19	22.41	11.96
Stddev	116.	1.7	75.	.30	1.81	.47
%RSD	.6235	.3815	.7781	.3898	8.093	3.894
#1	18580.	444.0	9657.	76.88	22.06	12.31
#2	18590.	444.5	9675.	77.47	20.80	11.43
#3	18780.	447.2	9538.	77.22	24.38	12.14
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112006-A-7-B@4 Acquired: 4/14/2016 16:27:16 Type: Unk
Method: sw04052016(v10) 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	2.766	-2.110	201.4	434.3	110.0	9.671
Stddev	3.495	1.467	1.6	2.0	.5	.155
%RSD	126.4	69.56	.7818	.4704	.4327	1.597
#1	5.545	-1.803	201.0	432.3	109.6	9.525
#2	3.910	-.8202	200.0	434.4	110.5	9.656
#3	-1.158	-3.706	203.1	436.4	109.8	9.833

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	7.449	1405.	1815.	4092.
Stddev	.805	8.	8.	108.
%RSD	10.81	.5763	.4376	2.639
#1	7.142	1397.	1811.	4181.
#2	6.842	1403.	1811.	4123.
#3	8.362	1413.	1825.	3972.

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	2962.9	39464.	5552.2
Stddev	11.9	249.	65.6
%RSD	.40318	.63092	1.1814
#1	2955.9	39300.	5478.0
#2	2976.7	39750.	5602.5
#3	2956.0	39340.	5576.1

Sample Name: 460-112006-A-8-B@4 Acquired: 4/14/2016 16:31:15 Type: Unk
Method: sw04052016(v10) 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	36880.	18.03	-2213	346.2	2.632	F 345700.
Stddev	247.	.77	.1163	1.1	.020	1407.
%RSD	.6708	4.268	52.53	.3041	.7693	.4070
#1	36640.	18.87	-.3509	345.4	2.638	344200.
#2	36870.	17.35	-.1263	345.9	2.649	345900.
#3	37130.	17.86	-.1868	347.4	2.610	346900.
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	.6955	23.38	66.35	131.3	58350.	8061.
Stddev	.1164	.30	.32	.4	336.	63.
%RSD	16.74	1.271	.4778	.2809	.5753	.7779
#1	.7340	23.15	66.67	131.3	58150.	8007.
#2	.7878	23.26	66.03	131.0	58170.	8047.
#3	.5647	23.72	66.36	131.7	58740.	8130.
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	22370.	771.3	3527.	68.34	104.2	2.375
Stddev	145.	3.1	19.	.30	2.2	1.331
%RSD	.6470	.4060	.5326	.4348	2.144	56.02
#1	22250.	767.8	3505.	68.14	105.6	3.910
#2	22320.	772.2	3534.	68.21	105.3	1.662
#3	22530.	773.9	3541.	68.68	101.6	1.553
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112006-A-8-B@4 Acquired: 4/14/2016 16:31:15 Type: Unk
Method: sw04052016(v10) 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	5.407	-2.181	80.80	286.5	79.23	6.254
Stddev	1.194	.895	.30	.7	.95	.251
%RSD	22.08	41.03	.3696	.2562	1.200	4.010
#1	6.732	-3.207	80.52	285.8	78.57	6.006
#2	4.413	-1.557	80.76	286.6	78.81	6.249
#3	5.078	-1.780	81.12	287.2	80.32	6.507

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	4.899	1984.	1812.	5055.
Stddev	.450	5.	8.	29.
%RSD	9.182	.2463	.4585	.5805
#1	4.678	1979.	1804.	5075.
#2	5.417	1984.	1812.	5067.
#3	4.603	1989.	1821.	5021.

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	2907.1	39164.	5583.3
Stddev	7.8	205.	77.8
%RSD	.26786	.52313	1.3928
#1	2898.9	38983.	5500.0
#2	2907.9	39123.	5595.8
#3	2914.4	39386.	5654.0

Sample Name: 460-112006-A-9-B@4 Acquired: 4/14/2016 16:35:15 Type: Unk
Method: sw04052016(v10) 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	38410.	15.49	-4.892	324.6	2.430	F 389900.
Stddev	274.	3.00	.1572	1.6	.063	1975.
%RSD	.7128	19.35	32.14	.4978	2.606	.5066
#1	38150.	18.37	-.6515	322.8	2.362	388300.
#2	38390.	15.73	-.3375	325.1	2.441	389200.
#3	38700.	12.38	-.4786	325.9	2.487	392100.
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	.5634	24.74	64.25	85.30	52630.	7470.
Stddev	.0665	.31	.80	1.08	182.	69.
%RSD	11.80	1.236	1.252	1.262	.3465	.9242
#1	.5716	24.66	64.46	84.37	52480.	7396.
#2	.6253	24.47	63.37	85.04	52580.	7479.
#3	.4932	25.07	64.93	86.48	52830.	7533.
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	31170.	828.8	5688.	73.73	177.0	1.973
Stddev	263.	5.0	53.	.96	4.7	1.540
%RSD	.8434	.6066	.9281	1.301	2.677	78.06
#1	30940.	824.2	5630.	73.61	173.1	1.880
#2	31110.	828.0	5702.	72.84	175.5	3.557
#3	31450.	834.2	5732.	74.74	182.2	.4815
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112006-A-9-B@4 Acquired: 4/14/2016 16:35:15 Type: Unk
Method: sw04052016(v10) 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	8.350	.1596	74.37	166.7	97.54	8.327
Stddev	1.371	1.950	.38	1.6	.46	.310
%RSD	16.42	1221.	.5081	.9801	.4700	3.725
#1	8.901	-1.452	74.10	165.3	97.56	8.148
#2	6.789	-.3961	74.20	166.3	97.07	8.685
#3	9.360	2.327	74.80	168.5	97.99	8.148

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	4.052	2475.	1784.	5564.
Stddev	.772	19.	10.	53.
%RSD	19.06	.7577	.5406	.9476
#1	3.260	2458.	1774.	5582.
#2	4.094	2472.	1787.	5606.
#3	4.803	2495.	1793.	5505.

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	2917.5	39410.	5635.8
Stddev	6.0	310.	22.3
%RSD	.20544	.78548	.39628
#1	2912.1	39082.	5620.4
#2	2923.9	39451.	5661.4
#3	2916.4	39697.	5625.6

Sample Name: CCV Acquired: 4/14/2016 16:40:21 Type: QC
Method: sw04052016(v10) 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	118900.	2525.	1214.	10260.	975.6	126100.
Stddev	546.	1.	3.	25.	4.3	181.
%RSD	.4589	.0526	.2197	.2436	.4431	.1432

#1	118200.	2524.	1211.	10270.	970.6	126300.
#2	119300.	2525.	1214.	10280.	978.6	126000.
#3	119100.	2527.	1216.	10230.	977.5	126100.

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.	2513.	5138.	12500.	98810.	48460.
Stddev	2.	4.	6.	52.	230.	48.
%RSD	.1824	.1694	.1240	.4158	.2324	.0993

#1	1267.	2518.	5139.	12440.	98770.	48410.
#2	1265.	2512.	5131.	12530.	98600.	48460.
#3	1263.	2510.	5144.	12540.	99060.	48510.

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	121400.	5106.	119500.	2570.	7395.	987.2
Stddev	196.	5.	1083.	9.	19.	1.0
%RSD	.1616	.1046	.9063	.3427	.2538	.1059

#1	121300.	5107.	118200.	2580.	7395.	987.5
#2	121200.	5100.	120000.	2568.	7377.	986.0
#3	121600.	5111.	120200.	2562.	7414.	988.1

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

Sample Name: CCV Acquired: 4/14/2016 16:40:21 Type: QC
Method: sw04052016(v10) 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	2536.	2532.	2512.	2491.	1018.	2535.
Stddev	5.	2.	4.	10.	2.	4.
%RSD	.1807	.0816	.1770	.4108	.2044	.1741

#1	2533.	2534.	2509.	2501.	1020.	2534.
#2	2533.	2530.	2511.	2480.	1016.	2540.
#3	2541.	2531.	2517.	2491.	1019.	2532.

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	1021.	5012.	9919.	9689.
Stddev	2.	8.	40.	94.
%RSD	.1863	.1535	.4069	.9688

#1	1019.	5003.	9901.	9615.
#2	1023.	5015.	9891.	9657.
#3	1020.	5017.	9966.	9795.

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	2855.8	38159.	5371.0
Stddev	9.8	90.	43.6
%RSD	.34377	.23694	.81124

#1	2848.2	38204.	5368.8
#2	2866.9	38218.	5328.5
#3	2852.4	38055.	5415.6

Sample Name: CCB Acquired: 4/14/2016 16:44:14 Type: QC
Method: sw04052016(v10) 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	1.305	-.3907	-.3362	.0090	-.0198	-15.46
Stddev	9.772	.9644	.1644	.0668	.0851	4.04
%RSD	749.0	246.8	48.90	739.8	430.2	26.11
#1	11.21	-.8109	-.4376	-.0609	.0467	-16.03
#2	1.029	-1.074	-.1465	.0159	-.1157	-19.19
#3	-8.327	.7124	-.4244	.0722	.0097	-11.17

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	-.0888	-.1768	.0864	-.2922	-5.291	8.782
Stddev	.0899	.1157	.1187	.2894	8.561	27.74
%RSD	101.2	65.45	137.5	99.03	161.8	315.8
#1	-.0758	-.1149	-.0498	-.3400	2.214	-19.99
#2	-.1845	-.3102	.1686	-.5547	-14.61	10.98
#3	-.0062	-.1051	.1403	.0181	-3.472	35.35

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	-1.775	.0216	-8.697	.1808	-.9098	.3459
Stddev	4.495	.0514	5.038	.3322	1.878	.7052
%RSD	253.2	237.8	57.93	183.8	206.4	203.9
#1	3.069	.0778	-5.260	.1770	-.3803	-.4675
#2	-5.811	-.0230	-6.351	.5149	.6462	.7206
#3	-2.583	.0100	-14.48	-.1495	-2.995	.7848

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

Sample Name: CCB Acquired: 4/14/2016 16:44:14 Type: QC
Method: sw04052016(v10) 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	3.576	-.6325	.0638	-.0736	-.2190	.2735
Stddev	3.532	.9128	.3781	.1477	.4339	.4821
%RSD	98.76	144.3	592.7	200.6	198.2	176.3
#1	5.105	.4184	.4977	.0927	.2685	.8252
#2	6.086	-1.088	-.1951	-.1243	-.3624	.0622
#3	-.4624	-1.228	-.1112	-.1894	-.5630	-.0669

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	.6490	.0251	.0160	-7.466
Stddev	.2690	.0592	.0733	16.23
%RSD	41.45	236.1	457.9	217.3
#1	.5858	.0121	.0857	5.440
#2	.4173	-.0266	-.0605	-2.156
#3	.9440	.0897	.0229	-25.68

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	3035.3	40607.	5414.1
Stddev	2.3	9.	22.5
%RSD	.07563	.02294	.41506
#1	3037.9	40617.	5388.3
#2	3034.3	40605.	5425.5
#3	3033.7	40599.	5428.7

Sample Name: CCVL Acquired: 4/14/2016 16:48:23 Type: QC
Method: sw04052016(v10) 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	201.2	14.32	9.555	216.9	2.017	5189.
Stddev	9.5	.87	.570	.6	.075	41.
%RSD	4.742	6.097	5.970	.2765	3.708	.7966

#1	208.1	14.31	10.21	217.3	1.942	5228.
#2	205.1	13.45	9.270	217.2	2.092	5194.
#3	190.3	15.20	9.183	216.2	2.018	5145.

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	4.187	54.17	10.95	24.44	171.6	4789.
Stddev	.108	.06	.42	.21	2.2	27.
%RSD	2.567	.1156	3.846	.8578	1.295	.5562

#1	4.063	54.22	11.18	24.66	169.3	4768.
#2	4.250	54.10	11.20	24.42	171.7	4819.
#3	4.249	54.19	10.46	24.24	173.7	4780.

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	4852.	16.25	4673.	45.12	10.25	19.43
Stddev	28.	.14	19.	.41	.83	1.51
%RSD	.5742	.8655	.4096	.9181	8.095	7.771

#1	4880.	16.31	4675.	45.53	10.18	18.85
#2	4851.	16.36	4653.	44.70	11.11	18.29
#3	4824.	16.09	4691.	45.14	9.454	21.14

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

Sample Name: CCVL Acquired: 4/14/2016 16:48:23 Type: QC
Method: sw04052016(v10) 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	20.66	23.22	51.75	31.72	50.88	20.29
Stddev	1.48	1.96	.52	.12	.39	.16
%RSD	7.166	8.449	.9986	.3657	.7578	.7982
#1	20.92	21.28	52.05	31.69	50.53	20.46
#2	19.07	23.17	52.04	31.84	50.81	20.28
#3	22.00	25.20	51.15	31.62	51.30	20.13

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	52.38	20.67	20.22	F -6.543
Stddev	.37	.11	.24	15.76
%RSD	.7128	.5420	1.180	240.9
#1	52.01	20.69	20.28	-2.182
#2	52.76	20.77	20.42	-24.03
#3	52.38	20.55	19.96	6.580

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	2988.2	39879.	5323.3
Stddev	5.7	47.	30.8
%RSD	.19122	.11746	.57891
#1	2992.7	39925.	5336.8
#2	2990.0	39831.	5288.0
#3	2981.8	39881.	5345.0

Sample Name: 460-111991-A-2-C@50 Acquired: 4/14/2016 16:52:29 Type: QC
Method: sw04052016(v10) 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	F 6833.	F 387.5	1.004	F 288.3	1.975	2955.
Stddev	28.	4.2	.619	2.7	.103	12.
%RSD	.4048	1.073	61.65	.9529	5.219	.4099

#1	6852.	383.9	.3000	285.3	1.995	2944.
#2	6801.	392.1	1.249	289.0	2.066	2968.
#3	6845.	386.6	1.463	290.7	1.863	2954.

Check ?	Chk Fail	Chk Fail	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit	200.0	15.00		200.0		
Low Limit	-200.0	-15.00		-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	F 15.86	F 57.27	F 87.07	F 2482.	F 112600.	2594.
Stddev	.20	.41	.36	14.	392.	40.
%RSD	1.280	.7239	.4123	.5511	.3479	1.534

#1	15.78	56.92	87.43	2472.	112200.	2548.
#2	15.71	57.17	86.71	2477.	113000.	2619.
#3	16.09	57.73	87.08	2498.	112700.	2616.

Check ?	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Fail	Chk Pass
High Limit	4.000	50.00	10.00	25.00	150.0	
Low Limit	-4.000	-50.00	-10.00	-25.00	-150.0	

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	1727.	F 214.6	767.1	F 56.91	F 497.4	F 23.75
Stddev	5.	1.0	.4	.38	4.0	1.08
%RSD	.3093	.4677	.0542	.6661	.8128	4.529

#1	1721.	215.0	767.3	56.53	494.1	22.51
#2	1732.	213.5	766.6	56.91	496.1	24.44
#3	1727.	215.4	767.4	57.29	501.9	24.30

Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Fail	Chk Fail	Chk Fail
High Limit		15.00		40.00	10.00	20.00
Low Limit		-15.00		-40.00	-10.00	-20.00

Sample Name: 460-111991-A-2-C@50 Acquired: 4/14/2016 16:52:29 Type: QC
Method: sw04052016(v10) 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	8.055	.7005	5.728	F 2112.	13.53	F 374.4
Stddev	5.278	.4467	.515	9.	.13	3.8
%RSD	65.52	63.77	8.987	.4331	.9760	1.003
#1	8.403	.2777	6.133	2110.	13.40	370.5
#2	2.612	1.168	5.149	2103.	13.52	374.7
#3	13.15	.6559	5.902	2121.	13.66	378.0
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Fail
High Limit				30.00		20.00
Low Limit				-30.00		-20.00

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	F 90.11	F 47.99	F 364.5	238.5
Stddev	1.66	.21	1.6	19.4
%RSD	1.841	.4274	.4515	8.125
#1	89.45	47.76	362.7	229.3
#2	88.89	48.15	364.7	225.4
#3	92.00	48.07	366.0	260.7
Check ?	Chk Fail	Chk Fail	Chk Fail	None
High Limit	50.00	20.00	20.00	
Low Limit	-50.00	-20.00	-20.00	

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	3001.6	40152.	5433.1
Stddev	12.0	95.	47.4
%RSD	.39867	.23743	.87152
#1	2996.8	40183.	5389.8
#2	3015.2	40045.	5425.8
#3	2992.7	40228.	5483.7

Sample Name: 460-112006-A-12-B@4 Acquired: 4/14/2016 17:04:31 Type: Unk
Method: sw04052016(v10) 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	32030.	19.70	-6586	271.5	3.305	F 338000.
Stddev	440.	2.85	.3205	2.1	.029	3378.
%RSD	1.373	14.48	48.65	.7594	.8624	.9994
#1	31770.	19.83	-.6184	269.1	3.282	334700.
#2	31790.	22.48	-.9973	272.2	3.295	337900.
#3	32540.	16.78	-.3602	273.1	3.337	341500.
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	-.4010	19.98	60.65	83.93	54950.	7326.
Stddev	.1183	.06	.41	.64	345.	78.
%RSD	29.51	.2944	.6834	.7614	.6276	1.068
#1	-.2685	20.04	60.55	83.83	54600.	7252.
#2	-.4383	19.94	60.30	83.35	54960.	7318.
#3	-.4962	19.94	61.11	84.62	55290.	7408.
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	20210.	562.7	3209.	46.74	37.66	.0112
Stddev	163.	4.7	35.	.26	1.56	.3409
%RSD	.8050	.8417	1.086	.5490	4.132	3034.
#1	20090.	557.9	3221.	46.44	35.96	-.3318
#2	20160.	563.0	3169.	46.90	38.00	.3500
#3	20400.	567.4	3236.	46.87	39.02	.0155
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112006-A-12-B@4 Acquired: 4/14/2016 17:04:31 Type: Unk
Method: sw04052016(v10) 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	6.702	-2.775	73.85	53.77	94.64	6.935
Stddev	1.962	.689	.78	.41	1.53	.047
%RSD	29.27	24.81	1.056	.7637	1.619	.6709
#1	8.767	-2.899	73.01	53.31	93.67	6.967
#2	4.863	-2.033	74.56	53.90	93.85	6.881
#3	6.476	-3.394	73.97	54.10	96.41	6.955

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	1.637	1593.	1444.	3177.
Stddev	.429	13.	9.	17.
%RSD	26.23	.8343	.6099	.5474
#1	1.289	1582.	1434.	3197.
#2	2.117	1588.	1446.	3166.
#3	1.505	1608.	1451.	3167.

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	2902.7	39125.	5599.6
Stddev	10.0	133.	76.4
%RSD	.34331	.33929	1.3643
#1	2909.0	39140.	5655.9
#2	2907.9	39250.	5630.2
#3	2891.2	38985.	5512.6

Sample Name: 460-112006-A-13-B@4 Acquired: 4/14/2016 17:08:34 Type: Unk
Method: sw04052016(v10) 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	45190.	13.99	-4525	260.9	1.948	F 393600.
Stddev	417.	1.04	.1652	.6	.071	1384.
%RSD	.9232	7.421	36.51	.2149	3.622	.3516

#1	44810.	12.80	-.5275	261.2	1.880	392300.
#2	45120.	14.74	-.5669	261.3	2.021	395100.
#3	45630.	14.42	-.2631	260.3	1.944	393500.

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	-.3435	29.89	82.92	56.44	70820.	13780.
Stddev	.0993	.23	.33	.05	299.	89.
%RSD	28.91	.7537	.4001	.0890	.4222	.6429

#1	-.3590	30.14	83.29	56.48	70500.	13680.
#2	-.4341	29.71	82.82	56.46	71100.	13790.
#3	-.2373	29.82	82.66	56.38	70850.	13860.

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	19120.	1627.	10970.	57.99	21.54	1.210
Stddev	94.	4.	92.	.34	1.32	.926
%RSD	.4937	.2271	.8367	.5847	6.129	76.57

#1	19010.	1623.	10900.	58.09	21.50	2.043
#2	19160.	1631.	10940.	58.27	20.24	.2122
#3	19180.	1627.	11070.	57.61	22.88	1.375

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

Sample Name: 460-112006-A-13-B@4 Acquired: 4/14/2016 17:08:34 Type: Unk
Method: sw04052016(v10) 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	8.407	-2.165	85.63	147.1	62.93	1.014
Stddev	2.119	.737	.52	.1	.81	.249
%RSD	25.21	34.04	.6015	.0995	1.283	24.53
#1	6.551	-2.211	86.12	147.2	62.00	1.297
#2	7.953	-1.407	85.68	147.1	63.36	.8320
#3	10.72	-2.879	85.09	146.9	63.44	.9125

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	2.632	2463.	1124.	2160.
Stddev	1.519	19.	3.	6.
%RSD	57.70	.7739	.2464	.2622
#1	1.573	2444.	1121.	2157.
#2	1.952	2463.	1125.	2155.
#3	4.373	2482.	1126.	2166.

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	2869.4	38702.	5559.6
Stddev	8.5	178.	46.9
%RSD	.29688	.45974	.84302
#1	2860.3	38698.	5609.9
#2	2870.7	38525.	5551.7
#3	2877.2	38881.	5517.1

Sample Name: 460-112006-A-14-B@4 Acquired: 4/14/2016 17:12:35 Type: Unk
Method: sw04052016(v10) 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	100800.	10.58	-.6033	3635.	11.83	F 588800.
Stddev	350.	2.19	.0794	5.	.11	3811.
%RSD	.3470	20.68	13.16	.1502	.9194	.6472
#1	100400.	13.02	-.5365	3632.	11.78	593200.
#2	100900.	9.913	-.6910	3631.	11.95	586500.
#3	101100.	8.800	-.5823	3641.	11.75	586700.
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	8.253	1.441	51.66	9.573	8910.	16130.
Stddev	.139	.216	.41	.149	39.	64.
%RSD	1.681	15.01	.7962	1.555	.4336	.3972
#1	8.167	1.659	51.86	9.530	8953.	16070.
#2	8.413	1.436	51.93	9.739	8900.	16140.
#3	8.178	1.227	51.19	9.451	8877.	16190.
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	123200.	F 16600.	7971.	5.992	1.514	-.6315
Stddev	297.	40.	13.	.372	.840	1.410
%RSD	.2410	.2407	.1608	6.200	55.48	223.3
#1	123300.	16620.	7956.	5.976	1.800	-.3897
#2	123500.	16630.	7978.	5.630	2.173	.6418
#3	122900.	16560.	7979.	6.372	.5681	-2.147
Check ?	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit		10000.				
Low Limit		-15.00				

Sample Name: 460-112006-A-14-B@4 Acquired: 4/14/2016 17:12:35 Type: Unk
Method: sw04052016(v10) 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	1.659	2.221	68.29	450.1	315.5	.0069
Stddev	4.074	1.246	.19	1.3	1.3	.1959
%RSD	245.5	56.11	.2799	.2898	.3962	2856.
#1	5.984	3.652	68.21	451.6	314.9	.0743
#2	1.098	1.374	68.51	449.4	317.0	.1601
#3	-2.105	1.637	68.16	449.3	314.7	-.2139

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	3.298	2065.	5323.	1899.
Stddev	1.492	6.	2.	28.
%RSD	45.25	.2756	.0398	1.481
#1	2.320	2059.	5322.	1902.
#2	2.558	2065.	5321.	1869.
#3	5.015	2071.	5325.	1925.

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	3163.7	42540.	6169.0
Stddev	34.7	718.	142.7
%RSD	1.0977	1.6875	2.3133
#1	3123.9	41816.	6094.7
#2	3179.6	42553.	6078.8
#3	3187.7	43252.	6333.5

Sample Name: 460-112006-A-10-B@4 Acquired: 4/14/2016 16:56:26 Type: Unk
Method: sw04052016(v10) 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	25470.	8.078	-6646	283.1	1.566	F 291900.
Stddev	349.	1.351	.6038	1.3	.050	4130.
%RSD	1.368	16.72	90.85	.4545	3.158	1.415
#1	25070.	8.774	-1.340	281.7	1.623	287200.
#2	25600.	6.521	-.1777	283.5	1.542	293200.
#3	25730.	8.939	-.4760	284.2	1.533	295200.
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	-.2012	16.84	46.19	42.59	30590.	5219.
Stddev	.1459	.22	.48	.05	291.	60.
%RSD	72.48	1.301	1.046	.1272	.9503	1.144
#1	-.0328	16.65	45.66	42.55	30270.	5150.
#2	-.2847	17.08	46.60	42.58	30690.	5256.
#3	-.2862	16.78	46.30	42.65	30830.	5251.
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	13890.	418.4	1183.	46.73	23.00	-.1687
Stddev	160.	5.2	18.	.66	.44	1.772
%RSD	1.149	1.243	1.513	1.413	1.913	1050.
#1	13720.	412.5	1164.	46.12	23.35	.8664
#2	13910.	420.3	1200.	47.43	23.13	-2.214
#3	14040.	422.4	1185.	46.65	22.51	.8420
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112006-A-10-B@4 Acquired: 4/14/2016 16:56:26 Type: Unk
Method: sw04052016(v10) 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	1.403	-1.359	76.14	52.66	83.10	5.361
Stddev	3.081	2.699	.32	.38	.45	.110
%RSD	219.7	198.6	.4168	.7121	.5464	2.047
#1	3.488	-3.860	75.89	52.27	82.60	5.468
#2	2.856	.7187	76.03	52.70	83.24	5.249
#3	-2.137	-4.410	76.49	53.02	83.47	5.366

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	3.227	1754.	1805.	3724.
Stddev	.192	16.	22.	62.
%RSD	5.964	.9226	1.233	1.660
#1	3.210	1736.	1782.	3771.
#2	3.427	1761.	1806.	3747.
#3	3.043	1766.	1826.	3654.

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	2884.1	39037.	5503.3
Stddev	6.9	210.	48.7
%RSD	.23840	.53921	.88480
#1	2892.0	39280.	5558.7
#2	2880.6	38911.	5483.7
#3	2879.7	38921.	5467.5

Sample Name: 460-112006-A-16-B@4 Acquired: 4/14/2016 17:20:54 Type: Unk
Method: sw04052016(v10) 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	11310.	7.439	-3592	159.5	.9408	123300.
Stddev	40.	1.055	.1661	1.3	.0401	616.
%RSD	.3532	14.18	46.25	.8301	4.264	.4998
#1	11270.	6.281	-.3179	158.1	.9559	122600.
#2	11310.	7.689	-.5420	159.7	.9711	123700.
#3	11350.	8.346	-.2175	160.7	.8953	123700.

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	-.3744	10.40	45.39	56.88	29370.	1860.
Stddev	.0084	.35	.43	.50	157.	19.
%RSD	2.250	3.379	.9405	.8779	.5337	1.041
#1	-.3655	10.23	44.97	56.41	29210.	1839.
#2	-.3754	10.16	45.38	56.83	29370.	1864.
#3	-.3823	10.80	45.82	57.40	29530.	1877.

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	21560.	481.9	288.8	30.69	17.88	1.169
Stddev	31.	2.3	8.3	.25	3.24	1.342
%RSD	.1443	.4874	2.863	.8011	18.14	114.8
#1	21530.	479.2	279.4	30.41	15.86	1.137
#2	21570.	483.0	292.4	30.85	16.15	-.1565
#3	21590.	483.5	294.7	30.81	21.62	2.527

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

Sample Name: 460-112006-A-16-B@4 Acquired: 4/14/2016 17:20:54 Type: Unk
Method: sw04052016(v10) 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	3.455	-1.333	38.07	303.2	18.47	3.308
Stddev	4.657	1.402	.44	2.9	.52	.003
%RSD	134.8	105.1	1.153	.9711	2.805	.1040
#1	5.685	-.6099	37.58	300.4	18.03	3.311
#2	6.578	-.4410	38.22	302.8	18.34	3.304
#3	-1.897	-2.949	38.42	306.3	19.04	3.308

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	24.65	381.1	543.4	3840.
Stddev	.41	.9	3.1	8.
%RSD	1.644	.2492	.5647	.2045
#1	24.48	380.6	540.3	3843.
#2	24.36	380.6	543.5	3831.
#3	25.11	382.2	546.5	3846.

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	2921.9	39581.	5574.2
Stddev	6.3	173.	29.0
%RSD	.21569	.43749	.52068
#1	2915.1	39506.	5588.0
#2	2923.3	39457.	5540.8
#3	2927.4	39778.	5593.7

Sample Name: CCV Acquired: 4/14/2016 17:33:11 Type: QC
Method: sw04052016(v10) 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	118600.	2561.	1207.	10400.	978.9	126000.
Stddev	224.	2.	1.	24.	2.1	391.
%RSD	.1884	.0871	.1091	.2319	.2140	.3106

#1	118500.	2563.	1207.	10380.	977.4	125800.
#2	118900.	2562.	1206.	10390.	981.3	125800.
#3	118500.	2559.	1208.	10420.	978.0	126500.

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	1280.	2525.	5186.	12560.	98640.	48450.
Stddev	2.	1.	18.	5.	256.	146.
%RSD	.1552	.0551	.3442	.0424	.2597	.3012

#1	1281.	2525.	5170.	12570.	98520.	48290.
#2	1277.	2524.	5182.	12560.	98460.	48560.
#3	1281.	2527.	5205.	12560.	98930.	48510.

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	120100.	5108.	119800.	2603.	7399.	993.5
Stddev	335.	12.	256.	5.	7.	.6
%RSD	.2785	.2353	.2136	.1988	.0972	.0605

#1	120100.	5100.	119800.	2601.	7403.	994.2
#2	119800.	5102.	120100.	2599.	7402.	993.1
#3	120400.	5121.	119500.	2609.	7390.	993.2

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

Sample Name: CCV Acquired: 4/14/2016 17:33:11 Type: QC
Method: sw04052016(v10) 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	2576.	2541.	2516.	2502.	1034.	2562.
Stddev	8.	9.	3.	4.	3.	5.
%RSD	.2951	.3372	.1253	.1709	.2811	.1793

#1	2576.	2546.	2516.	2507.	1031.	2557.
#2	2584.	2545.	2513.	2499.	1037.	2563.
#3	2568.	2531.	2519.	2501.	1035.	2566.

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	1033.	5031.	9897.	9731.
Stddev	3.	10.	71.	59.
%RSD	.2955	.1914	.7127	.6078

#1	1037.	5020.	9853.	9685.
#2	1031.	5035.	9860.	9710.
#3	1033.	5037.	9978.	9798.

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	2843.0	38215.	5410.6
Stddev	5.7	166.	19.0
%RSD	.19910	.43316	.35063

#1	2848.2	38300.	5416.4
#2	2843.7	38320.	5389.4
#3	2837.0	38024.	5426.0

Sample Name: 460-112006-B-11-D@4 Acquired: 4/14/2016 17:00:29 Type: Unk
Method: sw04052016(v10) 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	34810.	16.81	-1.343	281.5	2.841	F 340200.
Stddev	694.	1.85	.4889	3.5	.072	3105.
%RSD	1.995	11.03	364.1	1.237	2.541	.9125

#1	34190.	15.82	-.6976	277.8	2.835	338800.
#2	34670.	18.94	.1789	282.3	2.772	338100.
#3	35560.	15.65	.1159	284.6	2.916	343800.

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	-.0996	24.50	58.95	135.7	50480.	8541.
Stddev	.0767	.18	.39	1.9	437.	117.
%RSD	77.05	.7268	.6619	1.380	.8661	1.371

#1	-.1872	24.29	58.67	133.5	50210.	8418.
#2	-.0447	24.57	59.40	137.1	50240.	8556.
#3	-.0668	24.63	58.79	136.3	50980.	8651.

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	17700.	653.5	2574.	50.44	39.24	-.5133
Stddev	158.	6.5	47.	.95	1.89	1.040
%RSD	.8948	.9941	1.831	1.883	4.814	202.5

#1	17610.	648.6	2521.	49.65	37.46	-1.556
#2	17610.	651.1	2588.	50.18	41.22	.5234
#3	17880.	660.9	2612.	51.50	39.04	-.5076

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

Sample Name: 460-112006-B-11-D@4 Acquired: 4/14/2016 17:00:29 Type: Unk
Method: sw04052016(v10) 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	6.759	-2.390	71.13	63.12	94.01	5.213
Stddev	2.914	1.898	1.05	.46	.92	.277
%RSD	43.11	79.43	1.476	.7345	.9803	5.309
#1	7.797	-7.755	69.92	62.81	92.99	5.053
#2	3.469	-4.481	71.74	62.89	94.78	5.054
#3	9.012	-1.913	71.74	63.65	94.26	5.533

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	3.027	2186.	1408.	4280.
Stddev	1.121	41.	17.	46.
%RSD	37.02	1.878	1.200	1.084
#1	3.977	2146.	1391.	4234.
#2	1.791	2184.	1409.	4326.
#3	3.313	2228.	1424.	4280.

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	2900.0	39171.	5609.8
Stddev	32.0	743.	118.9
%RSD	1.1021	1.8971	2.1200
#1	2863.3	38325.	5478.5
#2	2914.9	39716.	5710.3
#3	2921.8	39473.	5640.7

Sample Name: 460-112006-A-15-B@4 Acquired: 4/14/2016 17:16:53 Type: Unk
Method: sw04052016(v10) 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	40120.	9.303	-4.749	329.4	1.856	F 361200.
Stddev	194.	2.953	.1640	.5	.083	676.
%RSD	.4824	31.75	34.52	.1582	4.494	.1870
#1	39900.	10.50	-.2859	330.0	1.876	360700.
#2	40260.	11.47	-.5595	329.0	1.928	361100.
#3	40200.	5.938	-.5792	329.3	1.765	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	.4894	16.13	61.11	41.22	44430.	8024.
Stddev	.1980	.17	.12	.34	80.	16.
%RSD	40.45	1.081	.2044	.8129	.1811	.2049
#1	.6828	16.32	61.08	41.58	44510.	8007.
#2	.4983	16.06	60.99	41.15	44420.	8027.
#3	.2871	16.00	61.24	40.92	44350.	8039.
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	17940.	1543.	2650.	47.94	22.11	-.2503
Stddev	63.	2.	5.	.42	.48	1.709
%RSD	.3513	.1351	.1739	.8680	2.159	682.9
#1	17900.	1544.	2650.	48.34	21.64	-1.047
#2	17910.	1541.	2655.	47.51	22.59	-1.416
#3	18020.	1545.	2646.	47.96	22.11	1.712
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit						
Low Limit						

Sample Name: 460-112006-A-15-B@4 Acquired: 4/14/2016 17:16:53 Type: Unk
Method: sw04052016(v10) 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	-0.8791	-1.796	53.06	190.6	49.69	.8548
Stddev	2.758	.723	.19	.5	1.01	.0499
%RSD	313.7	40.24	.3631	.2673	2.029	5.835
#1	-1.002	-1.671	52.84	191.1	48.80	.8778
#2	-3.574	-1.144	53.20	190.8	49.49	.7976
#3	1.938	-2.574	53.14	190.1	50.79	.8890

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	2.357	2760.	1293.	2113.
Stddev	.292	10.	1.	41.
%RSD	12.40	.3519	.0391	1.937
#1	2.518	2752.	1294.	2147.
#2	2.533	2771.	1293.	2124.
#3	2.019	2758.	1293.	2068.

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	2861.4	38533.	5422.3
Stddev	26.9	183.	60.9
%RSD	.94144	.47605	1.1230
#1	2846.9	38375.	5492.5
#2	2844.9	38491.	5384.0
#3	2892.5	38735.	5390.4

Sample Name: 460-111982-E-7-A Acquired: 4/14/2016 17:45:22 Type: Unk
Method: sw04052016(v10) 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	21.07	1.037	-.2842	46.97	.1261	8945.
Stddev	10.19	2.162	.2269	.07	.0840	40.
%RSD	48.37	208.6	79.85	.1586	66.59	.4477
#1	30.54	.0233	-.1460	46.89	.1354	8916.
#2	10.29	-.4327	-.5461	47.01	.2050	8928.
#3	22.39	3.519	-.1605	47.02	.0379	8990.

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	-.2386	19.15	4.866	-.3148	5000.	1753.
Stddev	.0894	.19	.258	.2336	55.	47.
%RSD	37.48	1.013	5.306	74.21	1.105	2.660
#1	-.3419	19.05	4.594	-.4123	5018.	1699.
#2	-.1859	19.02	4.898	-.0482	4938.	1786.
#3	-.1881	19.37	5.108	-.4838	5044.	1773.

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	2645.	171.0	4823.	13.50	1.286	.6362
Stddev	4.	.8	60.	.39	1.715	.5355
%RSD	.1606	.4935	1.249	2.924	133.4	84.17
#1	2650.	171.6	4892.	13.24	-.5593	1.250
#2	2642.	170.1	4781.	13.95	2.830	.3963
#3	2644.	171.4	4797.	13.31	1.587	.2626

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

Sample Name: 460-111982-E-7-A Acquired: 4/14/2016 17:45:22 Type: Unk
Method: sw04052016(v10) 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	1.363	-.3043	-.0830	17.57	16.17	-.2844
Stddev	1.639	1.986	.1619	.13	.41	.2221
%RSD	120.2	652.5	195.0	.7171	2.559	78.12
#1	2.342	-.9097	-.0039	17.47	16.64	-.0835
#2	2.276	1.914	.0240	17.54	15.89	-.2467
#3	-.5284	-1.917	-.2693	17.71	15.97	-.5229

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	.4703	194.1	.1774	4316.
Stddev	.4539	2.0	.1297	9.
%RSD	96.53	1.039	73.07	.2008
#1	.9488	196.4	.3094	4308.
#2	.4163	193.0	.1728	4315.
#3	.0457	192.8	.0502	4325.

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	2977.6	39882.	5377.2
Stddev	10.1	231.	27.0
%RSD	.33987	.57951	.50251
#1	2988.5	40131.	5400.7
#2	2968.4	39838.	5347.7
#3	2976.0	39675.	5383.1

Sample Name: 460-111982-E-5-A Acquired: 4/14/2016 17:24:56 Type: Unk
Method: sw04052016(v10) 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	52.66	2.784	.1025	52.49	.0399	30240.
Stddev	12.58	.538	.3830	.18	.0436	67.
%RSD	23.88	19.32	373.6	.3442	109.2	.2217
#1	39.42	3.215	-.2794	52.45	-.0100	30210.
#2	64.46	2.181	.1003	52.34	.0706	30200.
#3	54.10	2.955	.4867	52.69	.0591	30320.

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	-.4057	9.890	.6032	-.5211	15310.	662.9
Stddev	.0851	.210	.2045	.4231	65.	8.5
%RSD	20.97	2.126	33.90	81.19	.4216	1.284
#1	-.4923	9.673	.3839	-.9672	15240.	669.1
#2	-.4024	9.904	.7886	-.1255	15330.	653.2
#3	-.3223	10.09	.6371	-.4708	15370.	666.3

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	16140.	823.3	47430.	14.04	1.818	.0077
Stddev	48.	2.0	47.	.87	1.154	2.422
%RSD	.2972	.2381	.0997	6.217	63.47	31440.
#1	16110.	821.5	47380.	14.55	3.055	-2.768
#2	16120.	822.9	47470.	13.04	.7712	1.694
#3	16200.	825.4	47450.	14.54	1.627	1.097

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

Sample Name: 460-111982-E-5-A Acquired: 4/14/2016 17:24:56 Type: Unk
Method: sw04052016(v10) 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	2.278	.9847	-1.417	5.634	41.56	.1431
Stddev	2.453	.8085	.217	.060	.63	.2445
%RSD	107.6	82.11	15.32	1.066	1.509	170.9
#1	1.557	1.671	-1.244	5.566	41.53	-.0305
#2	.2674	1.189	-1.347	5.657	40.95	.4226
#3	5.011	.0934	-1.661	5.678	42.20	.0371

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	337.2	.9283	3649.
Stddev	.7428	.6	.0604	19.
%RSD	337.3	.1767	6.505	.5205
#1	-.0329	337.5	.9696	3628.
#2	.4109	337.5	.8590	3664.
#3	-1.039	336.5	.9562	3655.

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	2935.1	39577.	5525.5
Stddev	5.2	116.	14.9
%RSD	.17864	.29364	.26959
#1	2940.4	39689.	5532.1
#2	2930.0	39583.	5535.9
#3	2935.0	39457.	5508.4

Sample Name: 460-111982-E-6-A Acquired: 4/14/2016 17:29:05 Type: Unk
Method: sw04052016(v10) 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	43.42	7.165	.3904	266.4	.0072	24200.
Stddev	11.57	1.407	.5521	.4	.0485	64.
%RSD	26.64	19.64	141.4	.1339	676.2	.2650
#1	31.97	8.736	-.0532	266.0	.0632	24250.
#2	55.10	6.739	.2157	266.7	-.0233	24220.
#3	43.19	6.021	1.009	266.4	-.0183	24130.

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	-.7343	18.79	1.031	-.1666	37480.	1615.
Stddev	.0664	.21	.219	.4152	25.	23.
%RSD	9.039	1.102	21.25	249.2	.0672	1.407
#1	-.6693	18.55	1.186	-.1103	37450.	1613.
#2	-.7316	18.92	1.127	.2175	37500.	1594.
#3	-.8019	18.89	.7804	-.6070	37500.	1639.

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	16930.	6075.	10280.	2.663	3.717	-.5319
Stddev	31.	9.	54.	.373	2.127	.7075
%RSD	.1805	.1546	.5240	14.01	57.21	133.0
#1	16900.	6082.	10240.	2.598	1.298	-1.194
#2	16950.	6079.	10270.	2.326	5.292	.2137
#3	16950.	6064.	10340.	3.064	4.560	-.6156

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

Sample Name: 460-111982-E-6-A Acquired: 4/14/2016 17:29:05 Type: Unk
Method: sw04052016(v10) 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	3.144	1.039	-3.507	.8283	24.98	-.2450
Stddev	2.984	1.404	.150	.2782	.19	.2428
%RSD	94.91	135.1	4.288	33.59	.7796	99.12
#1	.2748	-.0951	-3.620	1.104	25.11	-.5248
#2	2.926	.6032	-3.336	.8335	25.07	-.0896
#3	6.230	2.609	-3.565	.5475	24.75	-.1205

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	.9393	143.0	.5698	6745.
Stddev	.2357	1.1	.0551	23.
%RSD	25.10	.7845	9.667	.3439
#1	.6815	142.9	.5092	6771.
#2	.9926	141.9	.6168	6726.
#3	1.144	144.2	.5833	6737.

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	2984.0	40062.	5541.8
Stddev	1.7	117.	60.6
%RSD	.05612	.29263	1.0936
#1	2983.8	40133.	5608.8
#2	2982.4	39927.	5490.7
#3	2985.7	40126.	5526.0

Sample Name: CCB Acquired: 4/14/2016 17:37:05 Type: QC
Method: sw04052016(v10) 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	-10.06	.3048	-.1023	-.0031	.0668	-24.51
Stddev	.99	.4917	.1339	.0970	.0783	4.86
%RSD	9.795	161.3	130.9	3149.	117.3	19.84
#1	-9.902	-.1460	.0131	-.0777	.0529	-19.19
#2	-11.12	.8290	-.0709	-.0382	-.0037	-28.71
#3	-9.166	.2313	-.2490	.1066	.1511	-25.65

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	-.0222	.0277	.0772	-.2384	-.3044	23.63
Stddev	.0923	.0946	.1033	.0933	10.20	10.20
%RSD	416.8	341.3	133.9	39.12	3349.	43.17
#1	-.0771	-.0511	.1369	-.1334	10.19	35.41
#2	.0844	.1325	.1368	-.2705	-10.17	17.72
#3	-.0738	.0017	-.0421	-.3114	-.9336	17.77

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	-3.356	.0453	2.198	-.4504	-2.045	.2838
Stddev	1.789	.0352	1.879	.2132	1.117	.7223
%RSD	53.32	77.79	85.49	47.33	54.66	254.5
#1	-4.290	.0338	2.519	-.4840	-1.804	-.3853
#2	-4.485	.0848	3.896	-.6448	-1.067	.1872
#3	-1.293	.0172	.1791	-.2224	-3.263	1.050

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

Sample Name: CCB Acquired: 4/14/2016 17:37:05 Type: QC
Method: sw04052016(v10) 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	1.309	-.8712	-.1478	.1532	-.5375	.3207
Stddev	.720	.8786	.1991	.1675	.5934	.5004
%RSD	54.99	100.8	134.7	109.3	110.4	156.0
#1	.7451	.0963	-.2008	.2581	-.4100	.8699
#2	1.063	-1.091	.0724	.2414	-.0182	.2014
#3	2.120	-1.619	-.3150	-.0399	-1.184	-.1092

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	.0057	-.0047	.0922	-6.915
Stddev	.0780	.0594	.0620	12.12
%RSD	1380.	1264.	67.21	175.3
#1	.0451	.0528	.0992	-14.91
#2	.0560	-.0011	.0270	7.033
#3	-.0842	-.0658	.1503	-12.87

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	3000.4	40140.	5415.0
Stddev	10.5	207.	66.2
%RSD	.34906	.51493	1.2216
#1	2995.8	40290.	5486.8
#2	2993.1	40225.	5401.8
#3	3012.4	39904.	5356.5

Sample Name: CCVL Acquired: 4/14/2016 17:41:16 Type: QC
Method: sw04052016(v10) 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	212.4	13.09	9.395	218.2	1.989	5151.
Stddev	6.9	1.89	.665	.4	.109	24.
%RSD	3.262	14.46	7.083	.1680	5.493	.4729

#1	220.2	12.54	10.07	217.8	1.998	5158.
#2	207.0	15.20	9.382	218.5	2.093	5171.
#3	210.1	11.54	8.736	218.3	1.875	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	4.247	54.43	10.98	24.84	168.0	4785.
Stddev	.148	.21	.56	.20	2.9	61.
%RSD	3.482	.3859	5.092	.7999	1.722	1.273

#1	4.234	54.20	11.21	24.90	169.5	4737.
#2	4.401	54.61	11.38	25.01	169.8	4854.
#3	4.107	54.47	10.34	24.62	164.6	4763.

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	4839.	16.40	4744.	44.92	11.31	18.65
Stddev	37.	.12	27.	.50	1.26	1.17
%RSD	.7679	.7129	.5691	1.123	11.10	6.296

#1	4837.	16.35	4714.	45.41	10.66	19.26
#2	4877.	16.53	4765.	44.41	12.76	19.40
#3	4803.	16.31	4753.	44.95	10.52	17.30

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

Sample Name: CCVL Acquired: 4/14/2016 17:41:16 Type: QC
Method: sw04052016(v10) 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	22.07	23.85	51.72	31.97	51.26	20.29
Stddev	1.76	.66	.45	.10	1.03	.16
%RSD	7.996	2.767	.8613	.3117	2.012	.7775

#1	20.11	23.89	51.41	32.00	50.27	20.23
#2	22.59	24.48	52.23	31.86	51.18	20.17
#3	23.52	23.16	51.52	32.06	52.33	20.47

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	53.44	20.89	20.50	F -7.320
Stddev	.46	.23	.15	18.58
%RSD	.8566	1.119	.7326	253.8

#1	53.68	20.63	20.56	-27.95
#2	52.92	21.08	20.62	-2.107
#3	53.74	20.97	20.33	8.097

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	3038.8	40678.	5483.0
Stddev	8.6	180.	48.2
%RSD	.28438	.44137	.87839

#1	3046.5	40768.	5509.5
#2	3029.5	40471.	5427.4
#3	3040.5	40794.	5512.0

Sample Name: 460-111982-E-8-A Acquired: 4/14/2016 17:49:28 Type: Unk
Method: sw04052016(v10) 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	21.52	-1.158	-.0258	108.0	.0237	17180.
Stddev	9.64	.754	.6167	.4	.0733	82.
%RSD	44.78	65.09	2388.	.3567	308.9	.4763
#1	22.95	-.5635	-.0075	108.1	.1083	17210.
#2	11.25	-.9049	-.6515	108.3	-.0225	17090.
#3	30.36	-2.006	.5815	107.5	-.0146	17240.

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	-.0371	12.57	1.381	-.4773	2103.	1931.
Stddev	.0802	.13	.517	.2389	28.	8.
%RSD	216.4	1.017	37.44	50.06	1.351	.4393
#1	.0532	12.43	1.436	-.4750	2073.	1940.
#2	-.0640	12.61	1.869	-.2395	2106.	1923.
#3	-.1004	12.68	.8390	-.7173	2130.	1929.

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	6913.	637.2	15600.	12.58	1.639	-.5087
Stddev	38.	1.9	26.	.29	.381	.9776
%RSD	.5506	.2959	.1667	2.326	23.23	192.2
#1	6898.	637.8	15630.	12.64	2.074	-.8533
#2	6885.	635.1	15600.	12.26	1.366	.5945
#3	6957.	638.8	15570.	12.83	1.478	-1.267

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

Sample Name: 460-111982-E-8-A Acquired: 4/14/2016 17:49:28 Type: Unk
Method: sw04052016(v10) 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	2.094	-.1222	-.0367	9.062	41.37	-.4144
Stddev	1.647	1.596	.2283	.129	.70	.3135
%RSD	78.66	1306.	621.8	1.427	1.703	75.66
#1	3.229	-1.734	.2091	8.923	42.17	-.7134
#2	.2047	-.0897	-.0772	9.178	40.84	-.4416
#3	2.848	1.457	-.2421	9.084	41.09	-.0881

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	.6252	162.6	.4550	3941.
Stddev	1.126	.6	.1415	26.
%RSD	180.0	.3413	31.10	.6679
#1	.2666	162.9	.4194	3927.
#2	-.2774	163.0	.6108	3924.
#3	1.887	162.0	.3346	3971.

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	2943.3	39388.	5368.4
Stddev	19.5	266.	32.5
%RSD	.66294	.67455	.60606
#1	2926.5	39208.	5350.4
#2	2964.7	39693.	5348.9
#3	2938.8	39262.	5406.0

Sample Name: 460-111978-D-1-A Acquired: 4/14/2016 17:53:35 Type: Unk
Method: sw04052016(v10) 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	222.3	-6539	-1.134	69.85	.5304	8968.
Stddev	12.2	1.067	.1993	.18	.0533	46.
%RSD	5.468	163.2	175.7	.2519	10.06	.5154
#1	232.7	-1.842	.0706	69.65	.4738	8937.
#2	208.9	.2212	-.3251	69.93	.5376	8946.
#3	225.1	-.3406	-.0858	69.97	.5797	9021.

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	-.0903	17.07	-.0202	-.0961	9064.	1819.
Stddev	.0732	.18	.2233	.1004	9.	25.
%RSD	81.12	1.053	1108.	104.5	.1029	1.382
#1	-.1072	16.88	.2230	.0048	9056.	1848.
#2	-.0101	17.23	-.0673	-.0971	9061.	1802.
#3	-.1536	17.12	-.2161	-.1959	9074.	1807.

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	2542.	240.3	28850.	6.673	2.201	-.0124
Stddev	21.	.6	178.	.162	1.296	.5129
%RSD	.8237	.2511	.6180	2.427	58.87	4137.
#1	2529.	239.6	29020.	6.752	3.663	-.4912
#2	2531.	240.6	28670.	6.781	1.748	-.0748
#3	2566.	240.7	28870.	6.487	1.193	.5288

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

Sample Name: 460-111978-D-1-A Acquired: 4/14/2016 17:53:35 Type: Unk
Method: sw04052016(v10) 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	1.439	-1.007	34.37	37.66	-.9182
Stddev	2.341	1.637	.174	.19	.56	.2238
%RSD	1238.	113.7	17.25	.5473	1.496	24.37
#1	-1.274	1.120	-1.206	34.57	38.18	-.8729
#2	-1.047	-.0144	-.9289	34.36	37.06	-1.161
#3	2.889	3.212	-.8865	34.19	37.73	-.7204

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	-.5726	64.05	-.0027	2275.
Stddev	.6262	.18	.1159	24.
%RSD	109.4	.2851	4217.	1.050
#1	-.1825	63.86	-.0721	2268.
#2	-.2403	64.07	.1310	2301.
#3	-1.295	64.22	-.0672	2255.

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	2972.2	39454.	5340.3
Stddev	17.1	97.	31.9
%RSD	.57521	.24692	.59647
#1	2956.9	39436.	5310.4
#2	2968.9	39559.	5373.8
#3	2990.6	39366.	5336.6

Sample Name: 460-110302-A-4-F@20 Acquired: 4/14/2016 18:01:49 Type: Unk
Method: sw04052016(v10) 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	12350.	-.7399	-.6133	97.55	.8314	1646.
Stddev	12.	1.704	.1375	.89	.0658	14.
%RSD	.1006	230.3	22.42	.9129	7.916	.8369
#1	12370.	1.201	-.7717	96.67	.8303	1636.
#2	12340.	-1.990	-.5437	97.53	.8977	1641.
#3	12350.	-1.431	-.5244	98.45	.7661	1662.

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	-.4633	16.46	35.95	10.15	35270.	2923.
Stddev	.0149	.25	.37	.26	220.	19.
%RSD	3.211	1.528	1.019	2.514	.6244	.6439
#1	-.4585	16.17	35.55	10.44	35270.	2906.
#2	-.4800	16.63	36.27	9.961	35040.	2920.
#3	-.4515	16.59	36.03	10.05	35490.	2943.

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	9089.	520.4	177.7	40.08	20.52	.7232
Stddev	30.	2.2	10.2	.25	.58	.4061
%RSD	.3327	.4307	5.724	.6280	2.811	56.15
#1	9065.	518.5	166.2	39.79	20.54	1.188
#2	9080.	519.8	181.7	40.21	21.10	.5461
#3	9123.	522.8	185.3	40.24	19.94	.4357

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

Sample Name: 460-110302-A-4-F@20 Acquired: 4/14/2016 18:01:49 Type: Unk
Method: sw04052016(v10) 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	4.798	-.6566	27.61	91.49	15.07	-.0006
Stddev	2.315	1.764	.20	.50	.43	.1619
%RSD	48.24	268.7	.7382	.5514	2.849	25020.
#1	6.720	1.315	27.58	91.27	14.58	-.1350
#2	5.445	-2.088	27.43	91.14	15.24	-.0460
#3	2.228	-1.196	27.83	92.07	15.39	.1791

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	.6654	9.197	568.1	155.7
Stddev	.6319	.042	2.9	22.1
%RSD	94.97	.4596	.5094	14.16
#1	-.0636	9.193	565.8	155.7
#2	1.058	9.157	567.1	133.7
#3	1.002	9.241	571.3	177.8

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	2995.5	40161.	5508.4
Stddev	5.7	197.	59.4
%RSD	.19064	.49167	1.0785
#1	2993.4	40016.	5442.9
#2	2991.1	40386.	5523.4
#3	3001.9	40080.	5558.9

Sample Name: 460-111978-D-4-A Acquired: 4/14/2016 17:57:42 Type: Unk
Method: sw04052016(v10) 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	64.79	-4374	-1393	58.25	.1031	8654.
Stddev	1.33	1.640	.3429	.05	.0482	45.
%RSD	2.057	375.0	246.1	.0894	46.76	.5239
#1	65.26	1.185	-.4004	58.26	.1576	8691.
#2	63.29	-2.095	.2490	58.19	.0662	8603.
#3	65.82	-.4021	-.2665	58.29	.0854	8667.

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	-.0470	7.915	.2207	.1803	1580.	2045.
Stddev	.1083	.250	.6994	.1290	18.	6.
%RSD	230.5	3.156	316.9	71.53	1.170	.3159
#1	-.0043	7.864	.9657	.3049	1565.	2050.
#2	.0335	7.695	-.4217	.0474	1574.	2038.
#3	-.1701	8.187	.1182	.1886	1601.	2047.

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	2531.	156.1	55940.	4.190	.1048	.4158
Stddev	31.	1.2	301.	.228	1.123	.4609
%RSD	1.226	.7645	.5377	5.439	1072.	110.9
#1	2517.	155.0	56290.	4.048	-.8827	.7654
#2	2509.	155.8	55810.	4.068	-.1295	.5884
#3	2566.	157.4	55730.	4.453	1.326	-.1066

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

Sample Name: 460-111978-D-4-A Acquired: 4/14/2016 17:57:42 Type: Unk
Method: sw04052016(v10) 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	1.618	-.6701	.1023	13.31	42.96	-.6810
Stddev	1.195	.0981	.2028	.15	.74	.2500
%RSD	73.85	14.64	198.3	1.139	1.727	36.71
#1	.2560	-.5568	.1643	13.23	43.17	-.8747
#2	2.108	-.7271	.2668	13.20	43.58	-.7696
#3	2.491	-.7264	-.1243	13.48	42.14	-.3988

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	.2631	63.85	.1751	2085.
Stddev	.5684	.25	.1880	43.
%RSD	216.1	.3885	107.4	2.086
#1	.8215	64.11	.2913	2075.
#2	-.3148	63.81	-.0418	2132.
#3	.2825	63.62	.2757	2047.

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	2947.9	39572.	5468.4
Stddev	34.0	400.	94.4
%RSD	1.1537	1.0101	1.7264
#1	2985.8	39955.	5524.7
#2	2937.8	39605.	5521.1
#3	2920.1	39157.	5359.4

Sample Name: MB 460-362271/1-A@2 Acquired: 4/14/2016 18:05:54 Type: Unk
Method: sw04052016(v10) 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	-6.170	-3.079	-.4130	-.0397	-.0636	-15.09
Stddev	5.793	.152	.1913	.0918	.0826	1.73
%RSD	93.89	4.948	46.32	231.4	129.8	11.45
#1	-11.84	-3.253	-.2793	-.0111	-.0730	-15.16
#2	-6.409	-3.019	-.6321	.0345	.0232	-13.33
#3	-.2618	-2.966	-.3276	-.1424	-.1412	-16.78

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	-.0477	.1364	.1397	-.5002	-6.982	7.000
Stddev	.0296	.2117	.2700	.2010	2.973	33.13
%RSD	62.18	155.2	193.3	40.18	42.58	473.2
#1	-.0718	.3672	.1950	-.5195	-3.727	3.834
#2	-.0566	.0907	.3777	-.6908	-7.667	41.60
#3	-.0146	-.0487	-.1537	-.2903	-9.553	-24.43

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	-2.762	-.0103	.5058	-.1827	-.2956	.2987
Stddev	5.617	.0363	5.742	.0672	1.887	.8219
%RSD	203.3	353.1	1135.	36.81	638.4	275.2
#1	-7.323	-.0219	6.798	-.1912	-1.830	-.3464
#2	3.511	.0304	-.8317	-.1116	1.812	.0183
#3	-4.476	-.0393	-4.449	-.2452	-.8680	1.224

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

Sample Name: MB 460-362271/1-A@2 Acquired: 4/14/2016 18:05:54 Type: Unk
Method: sw04052016(v10) 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	1.940	-1.281	-.1212	.6440	-1.487	-.7336
Stddev	3.186	1.924	.2335	.0526	.146	.1372
%RSD	164.3	150.2	192.7	8.167	9.827	18.70
#1	5.373	-3.210	-.3369	.7024	-1.418	-.6667
#2	-.9217	-1.272	.1267	.6003	-1.387	-.8914
#3	1.368	.6384	-.1533	.6295	-1.654	-.6426

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	.3191	-.0060	-.5510	-10.50
Stddev	.4930	.0606	.0942	5.95
%RSD	154.5	1012.	17.09	56.66
#1	-.1134	-.0121	-.4427	-8.147
#2	.2147	.0575	-.5962	-6.086
#3	.8559	-.0634	-.6141	-17.26

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	2982.2	39809.	5387.2
Stddev	4.5	240.	22.0
%RSD	.15048	.60175	.40835
#1	2987.2	39563.	5411.9
#2	2978.5	40042.	5380.0
#3	2981.0	39823.	5369.7

Sample Name: LCSSRM 460-362271/2- Acquired: 4/14/2016 18:10:05 Type: Unk
Method: sw04052016(v10) 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	33030.	681.1	138.6	1056.	465.6	29650.
Stddev	12.	4.7	.6	3.	1.7	155.
%RSD	.0358	.6930	.4414	.2458	.3715	.5240
#1	33010.	684.7	138.0	1055.	466.2	29500.
#2	33030.	675.8	138.5	1055.	463.6	29650.
#3	33030.	682.9	139.2	1059.	466.9	29810.

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	462.8	846.9	747.7	842.1	68030.	10500.
Stddev	.7	1.4	3.5	2.1	238.	46.
%RSD	.1542	.1677	.4722	.2537	.3504	.4337
#1	462.1	845.5	745.2	844.5	67830.	10500.
#2	462.8	848.4	746.1	840.4	68300.	10450.
#3	463.5	846.9	751.7	841.3	67970.	10540.

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	11580.	1570.	3929.	743.8	733.9	433.7
Stddev	32.	4.	23.	2.8	2.8	3.8
%RSD	.2781	.2424	.5833	.3787	.3823	.8719
#1	11560.	1566.	3926.	744.0	733.7	438.0
#2	11570.	1570.	3908.	740.9	731.3	432.0
#3	11620.	1573.	3954.	746.5	736.8	431.0

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

Sample Name: LCSSRM 460-362271/2- Acquired: 4/14/2016 18:10:05 Type: Unk
Method: sw04052016(v10) 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	876.9	781.4	558.3	971.2	659.6	622.0
Stddev	2.3	9.5	.7	4.0	3.1	4.2
%RSD	.2605	1.211	.1249	.4150	.4755	.6679
#1	877.0	788.3	557.5	973.6	662.1	624.9
#2	874.5	770.6	558.6	973.5	656.1	617.3
#3	879.1	785.3	558.8	966.5	660.6	624.0

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	759.5	521.2	1471.	2593.
Stddev	3.9	1.1	1.	26.
%RSD	.5195	.2115	.0376	.9883
#1	762.7	522.5	1470.	2613.
#2	755.1	520.5	1471.	2602.
#3	760.7	520.7	1471.	2564.

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	3036.8	40594.	5461.9
Stddev	7.5	105.	52.8
%RSD	.24632	.25830	.96751
#1	3029.0	40495.	5464.8
#2	3037.4	40704.	5513.3
#3	3044.0	40583.	5407.7

Sample Name: 460-111932-C-13-A@4 Acquired: 4/14/2016 18:17:55 Type: Unk
Method: sw04052016(v10) 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	33580.	51.58	.0071	278.1	1.724	6549.
Stddev	338.	1.05	.6437	.8	.115	8.
%RSD	1.005	2.038	9076.	.2765	6.663	.1294
#1	33320.	52.68	-.1146	277.5	1.634	6551.
#2	33470.	50.58	.7030	277.9	1.684	6539.
#3	33960.	51.48	-.5671	279.0	1.853	6556.

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	.7803	33.14	102.0	143.8	68040.	1490.
Stddev	.1822	.07	.2	.2	427.	11.
%RSD	23.35	.2017	.2090	.1317	.6273	.7276
#1	.9857	33.20	102.2	143.7	67770.	1501.
#2	.6384	33.14	102.0	144.1	67810.	1491.
#3	.7167	33.07	101.7	143.7	68530.	1479.

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.	846.4	196.3	49.89	495.4	2.752
Stddev	18.	1.5	2.2	.33	1.2	1.317
%RSD	.2997	.1790	1.103	.6524	.2478	47.85
#1	5948.	846.2	196.0	49.57	494.6	1.878
#2	5953.	845.0	194.3	49.88	496.9	4.267
#3	5981.	848.0	198.6	50.22	494.8	2.111

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

Sample Name: 460-111932-C-13-A@4 Acquired: 4/14/2016 18:17:55 Type: Unk
Method: sw04052016(v10) 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	6.496	-6.753	112.9	460.5	4.102	3.252
Stddev	1.572	1.051	.8	1.1	.425	.226
%RSD	24.20	155.6	.7522	.2455	10.36	6.952
#1	5.440	-3.619	112.1	459.3	3.611	3.426
#2	8.304	-1.847	112.9	461.5	4.339	3.333
#3	5.746	.1833	113.8	460.7	4.355	2.996

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	21.26	21.06	1274.	1905.
Stddev	.57	.21	2.	19.
%RSD	2.662	.9790	.1435	.9737
#1	21.65	20.94	1272.	1885.
#2	20.61	20.95	1274.	1907.
#3	21.51	21.30	1276.	1922.

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	3056.6	40831.	5615.9
Stddev	15.2	260.	97.5
%RSD	.49800	.63717	1.7370
#1	3042.8	40779.	5638.1
#2	3054.0	41114.	5700.5
#3	3072.9	40601.	5509.2

Sample Name: 460-111932-C-13-B DU Acquired: 4/14/2016 18:13:55 Type: Unk
Method: sw04052016(v10) 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	33640.	49.70	-.1425	277.6	1.695	6568.
Stddev	329.	1.44	.2624	.2	.068	40.
%RSD	.9792	2.904	184.1	.0833	4.019	.6104
#1	33430.	50.08	-.2319	277.6	1.640	6596.
#2	33470.	50.92	-.3485	277.4	1.673	6586.
#3	34020.	48.11	.1529	277.9	1.771	6522.

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	.6697	33.08	101.7	143.7	67990.	1502.
Stddev	.0558	.27	.7	1.3	52.	20.
%RSD	8.330	.8239	.7273	.8950	.0764	1.324
#1	.6704	33.19	101.3	142.3	68030.	1499.
#2	.6136	32.77	102.5	144.8	67930.	1483.
#3	.7252	33.28	101.2	144.1	68010.	1523.

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	5974.	847.9	193.5	50.15	493.2	3.487
Stddev	29.	4.3	2.8	.22	2.2	1.598
%RSD	.4805	.5015	1.442	.4433	.4430	45.84
#1	5951.	851.4	190.9	50.11	493.1	2.446
#2	6006.	849.2	196.5	49.95	491.0	2.687
#3	5966.	843.2	193.0	50.39	495.4	5.327

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

Sample Name: 460-111932-C-13-B DU Acquired: 4/14/2016 18:13:55 Type: Unk
Method: sw04052016(v10) 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	8.970	-2.559	112.8	459.2	5.178	3.013
Stddev	4.406	1.370	.6	1.1	.403	.223
%RSD	49.11	53.53	.5719	.2417	7.788	7.410
#1	12.60	-4.141	113.3	459.8	5.227	3.270
#2	10.24	-1.753	113.0	457.9	5.553	2.896
#3	4.069	-1.783	112.1	459.8	4.752	2.873

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	21.00	1274.	1895.
Stddev	.29	.39	1.	17.
%RSD	1.470	1.872	.0914	.8890
#1	19.77	20.83	1273.	1878.
#2	19.42	20.72	1275.	1912.
#3	19.21	21.45	1275.	1896.

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	3032.4	40517.	5532.0
Stddev	38.7	711.	22.9
%RSD	1.2777	1.7551	.41335
#1	3003.9	39948.	5551.7
#2	3016.7	40288.	5537.5
#3	3076.5	41314.	5506.9

Sample Name: sd 460-111932-C-13-A Acquired: 4/14/2016 18:21:55 Type: Unk
Method: sw04052016(v10) 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	6754.	8.878	-1.1066	55.66	.3270	1289.
Stddev	79.	.216	.4632	.46	.0839	5.
%RSD	1.164	2.430	434.6	.8240	25.65	.3724

#1	6699.	8.745	.1746	56.14	.3891	1286.
#2	6844.	9.127	-.6412	55.22	.2316	1287.
#3	6719.	8.761	.1469	55.62	.3603	1295.

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	.0091	6.573	20.39	28.00	13860.	299.4
Stddev	.1175	.251	.32	.33	10.	42.8
%RSD	1289.	3.815	1.576	1.163	.0742	14.31

#1	-.0000	6.284	20.03	28.36	13870.	307.2
#2	.1309	6.716	20.62	27.90	13870.	253.2
#3	-.1035	6.720	20.53	27.74	13850.	337.8

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	1184.	172.4	33.67	9.378	98.40	1.287
Stddev	7.	.3	6.36	.355	1.46	.990
%RSD	.6048	.1727	18.90	3.786	1.486	76.92

#1	1188.	172.1	32.95	9.593	97.14	.4625
#2	1189.	172.7	27.70	9.572	98.06	1.014
#3	1176.	172.4	40.37	8.968	100.0	2.386

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

Sample Name: sd 460-111932-C-13-A Acquired: 4/14/2016 18:21:55 Type: Unk
Method: sw04052016(v10) 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	.3717	-.8447	22.13	93.29	-.5700	-.0868
Stddev	1.026	1.924	.48	.59	.3633	.0947
%RSD	276.1	227.8	2.158	.6347	63.74	109.2
#1	-.8082	-2.660	22.19	92.69	-.9063	-.0783
#2	1.057	-1.046	22.58	93.31	-.6191	.0035
#3	.8661	1.172	21.63	93.87	-.1846	-.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	4.689	4.201	253.6	374.2
Stddev	.923	.076	.2	4.3
%RSD	19.69	1.811	.0707	1.148
#1	3.623	4.277	253.7	378.9
#2	5.197	4.125	253.4	370.4
#3	5.246	4.200	253.7	373.3

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	3027.9	40811.	5550.9
Stddev	20.5	216.	89.5
%RSD	.67750	.53016	1.6118
#1	3049.4	41058.	5647.2
#2	3025.7	40656.	5470.3
#3	3008.5	40719.	5535.4

Sample Name: 460-111932-C-13-C MS Acquired: 4/14/2016 18:38:16 Type: Unk
Method: sw04052016(v10) 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	51310.	983.1	22.81	1328.	26.17	16000.
Stddev	64.	5.9	.66	2.	.13	38.
%RSD	.1242	.5957	2.902	.1176	.5037	.2374
#1	51280.	979.0	23.27	1326.	26.04	15960.
#2	51280.	989.8	22.05	1328.	26.31	16030.
#3	51390.	980.4	23.11	1330.	26.17	16020.

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	24.69	288.8	216.1	310.9	76190.	10930.
Stddev	.09	1.3	.7	.9	291.	60.
%RSD	.3499	.4382	.3316	.2977	.3814	.5497
#1	24.59	287.7	216.9	311.9	76150.	10870.
#2	24.75	290.2	216.1	310.5	76500.	10930.
#3	24.72	288.6	215.4	310.1	75920.	10990.

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	15480.	1109.	9208.	313.9	874.7	135.6
Stddev	22.	2.	11.	2.0	3.9	1.2
%RSD	.1399	.1654	.1194	.6292	.4443	.9001
#1	15500.	1107.	9217.	311.7	871.6	136.1
#2	15490.	1111.	9212.	315.6	879.0	136.4
#3	15460.	1109.	9196.	314.3	873.3	134.2

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

Sample Name: 460-111932-C-13-C MS Acquired: 4/14/2016 18:38:16 Type: Unk
Method: sw04052016(v10) 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	938.9	1015.	377.7	774.3	244.0	240.3
Stddev	7.7	5.	1.1	4.3	.9	1.3
%RSD	.8242	.5071	.2826	.5509	.3593	.5264
#1	939.2	1013.	378.9	771.3	243.3	239.5
#2	946.5	1021.	377.5	779.2	245.0	241.8
#3	931.0	1012.	376.8	772.4	243.7	239.7

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	250.6	266.2	1790.	2288.
Stddev	1.2	.9	2.	24.
%RSD	.4851	.3238	.0913	1.039
#1	249.6	266.0	1791.	2311.
#2	252.0	265.5	1791.	2264.
#3	250.2	267.2	1788.	2290.

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	3056.8	40556.	5559.1
Stddev	9.7	202.	51.3
%RSD	.31717	.49889	.92364
#1	3047.7	40378.	5616.7
#2	3055.6	40515.	5518.1
#3	3067.0	40776.	5542.5

Sample Name: CCV Acquired: 4/14/2016 18:26:01 Type: QC
Method: sw04052016(v10) 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	118200.	2548.	1215.	10400.	972.2	127600.
Stddev	457.	6.	1.	40.	2.2	738.
%RSD	.3866	.2428	.1052	.3848	.2242	.5784

#1	117700.	2555.	1216.	10450.	970.1	128400.
#2	118600.	2545.	1214.	10380.	974.5	127600.
#3	118300.	2543.	1213.	10380.	972.0	126900.

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.	2532.	5218.	12530.	98600.	48540.
Stddev	3.	2.	28.	13.	405.	138.
%RSD	.2607	.0667	.5400	.1059	.4111	.2850

#1	1282.	2533.	5247.	12520.	98940.	48430.
#2	1276.	2530.	5214.	12540.	98700.	48690.
#3	1277.	2532.	5191.	12540.	98150.	48500.

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	120800.	5140.	118500.	2610.	7388.	990.9
Stddev	462.	19.	294.	9.	12.	.8
%RSD	.3821	.3666	.2481	.3375	.1603	.0803

#1	121300.	5160.	118300.	2620.	7402.	990.3
#2	120600.	5136.	118800.	2605.	7384.	990.7
#3	120500.	5123.	118300.	2605.	7379.	991.8

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

Sample Name: CCV Acquired: 4/14/2016 18:26:01 Type: QC
Method: sw04052016(v10) 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	2565.	2553.	2523.	2500.	1035.	2565.
Stddev	8.	1.	6.	5.	3.	5.
%RSD	.3043	.0289	.2489	.2073	.2428	.1959

#1	2572.	2552.	2530.	2506.	1036.	2571.
#2	2556.	2553.	2522.	2499.	1032.	2561.
#3	2566.	2553.	2518.	2496.	1037.	2564.

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	1035.	5004.	9878.	9637.
Stddev	2.	6.	71.	33.
%RSD	.1883	.1214	.7235	.3374

#1	1036.	4997.	9934.	9628.
#2	1032.	5008.	9797.	9610.
#3	1036.	5006.	9902.	9673.

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	2795.6	37492.	5235.6
Stddev	19.1	471.	44.8
%RSD	.68477	1.2567	.85513

#1	2775.1	37018.	5190.4
#2	2798.7	37497.	5236.5
#3	2813.0	37960.	5280.0

Sample Name: pds 460-111932-C-13- Acquired: 4/14/2016 18:42:10 Type: Unk
Method: sw04052016(v10) 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	34980.	1908.	44.44	2241.	48.87	25220.
Stddev	283.	7.	.34	5.	.08	137.
%RSD	.8081	.3511	.7704	.2385	.1676	.5424

#1	34670.	1915.	44.21	2245.	48.77	25230.
#2	35040.	1908.	44.83	2242.	48.91	25350.
#3	35230.	1901.	44.27	2235.	48.92	25080.

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	49.06	519.1	301.8	372.4	67280.	18280.
Stddev	.07	1.3	1.6	3.1	314.	86.
%RSD	.1369	.2582	.5437	.8281	.4668	.4690

#1	49.10	520.2	299.9	370.5	67000.	18210.
#2	49.10	519.5	302.7	370.8	67620.	18380.
#3	48.98	517.6	302.8	376.0	67220.	18260.

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	23180.	1306.	17920.	555.0	946.9	453.2
Stddev	65.	3.	71.	1.0	2.7	3.6
%RSD	.2811	.2032	.3965	.1872	.2894	.8045

#1	23210.	1303.	17850.	556.2	945.3	452.2
#2	23220.	1309.	17990.	554.4	945.3	457.2
#3	23100.	1307.	17930.	554.4	950.1	450.1

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

Sample Name: pds 460-111932-C-13- Acquired: 4/14/2016 18:42:10 Type: Unk
Method: sw04052016(v10) 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	1903.	2016.	592.2	932.9	492.3	487.5
Stddev	3.	9.	1.2	2.9	1.3	1.1
%RSD	.1349	.4480	.2070	.3057	.2662	.2161

#1	1903.	2026.	590.9	935.7	492.2	488.6
#2	1901.	2007.	592.4	930.0	491.0	486.5
#3	1906.	2016.	593.3	933.1	493.6	487.4

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	513.2	494.5	1719.	1891.
Stddev	2.5	.5	5.	15.
%RSD	.4943	.1014	.3028	.8154

#1	515.9	494.6	1714.	1881.
#2	513.0	493.9	1721.	1884.
#3	510.8	494.9	1724.	1909.

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	3027.9	40083.	5468.7
Stddev	24.3	593.	78.0
%RSD	.80234	1.4783	1.4271

#1	3000.2	39836.	5447.4
#2	3038.0	39653.	5403.6
#3	3045.5	40758.	5555.2

Sample Name: 460-111932-C-3-A@4 Acquired: 4/14/2016 18:54:01 Type: Unk
Method: sw04052016(v10) 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	29460.	84.91	1.431	507.7	2.161	10700.
Stddev	34.	2.21	.077	.5	.084	33.
%RSD	.1153	2.605	5.351	.0915	3.867	.3128

#1	29490.	83.69	1.469	507.1	2.257	10660.
#2	29460.	87.46	1.343	508.0	2.120	10720.
#3	29420.	83.57	1.482	507.9	2.105	10710.

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	2.587	65.65	150.9	300.7	75190.	1945.
Stddev	.052	.28	.4	1.8	58.	28.
%RSD	2.027	.4229	.2728	.6147	.0769	1.429

#1	2.582	65.86	151.4	302.8	75150.	1962.
#2	2.642	65.76	150.6	299.9	75260.	1913.
#3	2.538	65.34	150.8	299.5	75160.	1960.

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	10890.	915.5	380.7	122.0	2355.	6.039
Stddev	10.	.9	6.3	.8	3.	.917
%RSD	.0942	.1031	1.645	.6824	.1191	15.19

#1	10880.	914.6	373.5	121.5	2354.	5.112
#2	10900.	916.5	384.2	122.9	2358.	6.059
#3	10890.	915.4	384.4	121.4	2352.	6.946

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

Sample Name: 460-111932-C-3-A@4 Acquired: 4/14/2016 18:54:01 Type: Unk
Method: sw04052016(v10) 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	9.907	-1.755	126.4	1002.	6.307	6.670
Stddev	2.293	.407	.5	1.	.335	.203
%RSD	23.14	23.19	.3633	.0876	5.308	3.049
#1	11.41	-2.220	126.8	1003.	6.491	6.528
#2	7.268	-1.464	125.9	1001.	6.510	6.579
#3	11.05	-1.581	126.6	1003.	5.921	6.903

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	23.88	120.3	1035.	1488.
Stddev	.44	.4	2.	17.
%RSD	1.855	.3280	.1902	1.161
#1	24.20	120.6	1034.	1468.
#2	24.06	120.5	1038.	1494.
#3	23.37	119.8	1035.	1501.

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	3070.6	40962.	5597.0
Stddev	6.2	35.	24.8
%RSD	.20252	.08542	.44289
#1	3064.5	40928.	5574.4
#2	3077.0	40959.	5623.5
#3	3070.1	40998.	5592.9

Sample Name: CCB Acquired: 4/14/2016 18:29:56 Type: QC
Method: sw04052016(v10) 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	2.368	-.4059	.3482	-.0132	.0512	-23.29
Stddev	1.046	1.226	.4735	.0563	.1008	5.48
%RSD	44.14	302.0	136.0	426.7	196.8	23.52
#1	1.432	.9852	.6701	-.0275	.1610	-26.90
#2	3.496	-.8746	-.1955	-.0609	-.0372	-25.97
#3	2.178	-1.328	.5700	.0488	.0299	-16.99

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	-.2152	-.1688	.4458	-.4093	3.637	-3.817
Stddev	.0970	.1766	.1306	.2501	4.425	9.904
%RSD	45.05	104.6	29.30	61.09	121.7	259.5
#1	-.2554	-.3681	.4727	-.4336	7.594	3.838
#2	-.2856	-.0317	.5609	-.6464	-1.141	-15.00
#3	-.1046	-.1065	.3038	-.1480	4.457	-.2865

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	-1.240	.0671	1.783	-.2185	-.0191	-.3561
Stddev	2.847	.0530	20.88	.4393	2.765	1.132
%RSD	229.6	79.00	1171.	201.1	14470.	318.0
#1	1.151	.0421	10.70	.2168	2.321	.0460
#2	-4.389	.1279	-22.07	-.2106	.6909	-1.635
#3	-.4819	.0312	16.72	-.6616	-3.070	.5203

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

Sample Name: CCB Acquired: 4/14/2016 18:29:56 Type: QC
Method: sw04052016(v10) 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	2.532	-.0920	-.1682	.0788	-.5408	.4786
Stddev	1.287	1.000	.4232	.0215	.4337	.2879
%RSD	50.85	1087.	251.6	27.29	80.20	60.16
#1	1.057	-1.165	.1036	.0560	-.0878	.8070
#2	3.106	.0730	.0476	.0818	-.9523	.3589
#3	3.432	.8154	-.6559	.0987	-.5822	.2698

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	.3692	.1687	-.0341	-13.42
Stddev	.6589	.1764	.1693	8.11
%RSD	178.5	104.6	495.8	60.43
#1	.7405	.1167	.1507	-19.42
#2	.7586	.0242	-.0714	-4.193
#3	-.3915	.3653	-.1817	-16.66

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	2943.4	39497.	5336.8
Stddev	3.8	124.	12.4
%RSD	.13078	.31330	.23200
#1	2940.4	39585.	5349.1
#2	2942.1	39551.	5337.0
#3	2947.8	39356.	5324.3

Sample Name: 460-111932-C-6-A@4 Acquired: 4/14/2016 19:06:07 Type: Unk
Method: sw04052016(v10) 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	36480.	91.36	1.246	502.2	2.056	8171.
Stddev	65.	2.65	.363	.6	.066	43.
%RSD	.1785	2.901	29.11	.1122	3.213	.5201
#1	36510.	88.96	1.604	501.6	1.982	8207.
#2	36530.	94.21	.8794	502.7	2.110	8124.
#3	36410.	90.91	1.253	502.5	2.075	8181.

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	1.595	53.08	96.61	260.4	76590.	2198.
Stddev	.215	.36	.23	.3	166.	40.
%RSD	13.48	.6742	.2417	.1143	.2162	1.797
#1	1.347	52.67	96.80	260.6	76770.	2155.
#2	1.720	53.21	96.35	260.4	76440.	2233.
#3	1.719	53.35	96.67	260.0	76560.	2204.

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	8399.	1394.	510.1	62.37	1095.	6.018
Stddev	42.	2.	7.1	.41	4.	.869
%RSD	.5052	.1204	1.385	.6623	.3779	14.44
#1	8447.	1394.	516.2	62.51	1093.	5.918
#2	8387.	1393.	511.8	61.90	1093.	5.203
#3	8364.	1396.	502.4	62.69	1100.	6.932

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

Sample Name: 460-111932-C-6-A@4 Acquired: 4/14/2016 19:06:07 Type: Unk
Method: sw04052016(v10) 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	9.385	-1.046	131.2	731.8	6.678	5.467
Stddev	2.754	2.626	.8	4.2	.556	.123
%RSD	29.34	251.1	.5719	.5750	8.334	2.242
#1	7.054	1.235	130.3	730.0	6.060	5.402
#2	12.42	-.4560	131.8	728.8	6.834	5.608
#3	8.679	-3.916	131.4	736.6	7.140	5.390

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	22.78	45.99	896.2	1702.
Stddev	.83	.07	.6	18.
%RSD	3.644	.1605	.0667	1.084
#1	23.74	45.92	896.4	1711.
#2	22.38	45.99	895.5	1681.
#3	22.23	46.07	896.7	1714.

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	3074.2	41185.	5703.1
Stddev	14.3	313.	56.1
%RSD	.46568	.76048	.98408
#1	3058.9	40824.	5660.6
#2	3087.3	41350.	5681.9
#3	3076.3	41381.	5766.7

Sample Name: CCVL Acquired: 4/14/2016 18:34:08 Type: QC
Method: sw04052016(v10) 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	199.6	14.48	9.548	219.1	2.025	5202.
Stddev	7.7	.70	.021	.2	.091	62.
%RSD	3.862	4.855	.2244	.1010	4.497	1.191

#1	190.9	14.74	9.570	219.2	1.949	5273.
#2	205.7	15.01	9.548	218.8	1.999	5157.
#3	202.1	13.68	9.527	219.3	2.126	5177.

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	4.180	54.21	10.93	24.83	159.4	4795.
Stddev	.047	.29	.24	.03	10.4	24.
%RSD	1.123	.5293	2.231	.1175	6.509	.4921

#1	4.145	54.31	11.20	24.86	147.4	4794.
#2	4.233	54.43	10.73	24.84	165.9	4772.
#3	4.160	53.89	10.85	24.80	164.9	4819.

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	4833.	16.44	4618.	44.83	9.087	19.32
Stddev	48.	.20	62.	.35	1.341	.60
%RSD	.9843	1.247	1.343	.7863	14.76	3.125

#1	4888.	16.67	4572.	44.50	9.806	18.67
#2	4802.	16.31	4595.	44.79	7.539	19.45
#3	4809.	16.32	4689.	45.20	9.915	19.85

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

Sample Name: CCVL Acquired: 4/14/2016 18:34:08 Type: QC
Method: sw04052016(v10) 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	21.00	22.66	51.45	32.03	51.54	20.51
Stddev	2.86	1.11	.66	.35	.07	.30
%RSD	13.62	4.881	1.279	1.100	.1299	1.484
#1	17.73	21.47	52.19	31.75	51.56	20.30
#2	23.01	23.65	50.93	31.90	51.47	20.86
#3	22.27	22.87	51.25	32.42	51.60	20.36

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	53.43	20.78	20.36	F -10.21
Stddev	.85	.20	.05	11.21
%RSD	1.598	.9748	.2387	109.8
#1	52.53	20.55	20.37	-21.76
#2	53.53	20.91	20.40	-9.491
#3	54.22	20.88	20.31	.6213

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	3019.8	40155.	5463.5
Stddev	7.2	475.	153.3
%RSD	.23840	1.1821	2.8050
#1	3022.6	39607.	5317.2
#2	3025.2	40437.	5622.9
#3	3011.6	40422.	5450.5

Sample Name: 460-111932-C-8-A@4 Acquired: 4/14/2016 19:14:08 Type: Unk
Method: sw04052016(v10) 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	45400.	160.4	-0.0002	401.2	2.278	5693.
Stddev	404.	1.3	.0851	4.8	.046	19.
%RSD	.8896	.8402	44410.	1.199	2.032	.3402
#1	45050.	161.0	-.0985	397.8	2.226	5687.
#2	45310.	161.3	.0470	399.2	2.295	5678.
#3	45850.	158.8	.0509	406.7	2.314	5715.

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	1.286	34.22	88.50	70.57	77980.	2255.
Stddev	.077	.29	.44	.74	543.	21.
%RSD	5.977	.8393	.4961	1.042	.6961	.9530
#1	1.199	33.93	88.99	70.87	77360.	2254.
#2	1.345	34.25	88.13	69.74	78160.	2233.
#3	1.314	34.50	88.40	71.12	78400.	2276.

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	6218.	1991.	274.0	55.42	521.8	1.773
Stddev	27.	10.	4.0	.83	4.3	1.153
%RSD	.4384	.4778	1.459	1.498	.8295	65.06
#1	6217.	1982.	271.6	54.81	517.7	.4457
#2	6192.	1990.	278.6	55.08	521.5	2.339
#3	6246.	2001.	271.8	56.36	526.4	2.534

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

Sample Name: 460-111932-C-8-A@4 Acquired: 4/14/2016 19:14:08 Type: Unk
Method: sw04052016(v10) 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	8.594	.0385	124.4	337.1	6.946	3.622
Stddev	2.335	.5746	1.0	2.2	.623	.086
%RSD	27.18	1494.	.8266	.6584	8.968	2.384
#1	11.26	-.4413	123.9	334.6	6.802	3.675
#2	6.892	-.1184	123.8	337.8	7.628	3.522
#3	7.632	.6752	125.6	338.8	6.408	3.668

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	6.546	108.7	808.9	1621.
Stddev	.292	.8	5.4	20.
%RSD	4.464	.7068	.6654	1.253
#1	6.638	108.2	803.7	1627.
#2	6.218	108.4	808.5	1638.
#3	6.780	109.6	814.4	1598.

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	3127.9	41556.	5704.3
Stddev	14.1	330.	37.2
%RSD	.45096	.79440	.65279
#1	3111.6	41193.	5676.4
#2	3136.1	41634.	5746.6
#3	3136.0	41839.	5690.0

Sample Name: CCVL Acquired: 4/14/2016 19:26:21 Type: QC
Method: sw04052016(v10) 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	205.3	13.35	9.766	217.0	1.986	5237.
Stddev	2.3	1.08	.140	.7	.040	27.
%RSD	1.100	8.083	1.436	.3438	2.015	.5176

#1	203.0	13.43	9.725	217.3	1.963	5223.
#2	207.5	12.24	9.922	217.5	2.032	5268.
#3	205.3	14.39	9.651	216.1	1.962	5219.

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	4.295	54.47	10.78	24.74	169.1	4815.
Stddev	.065	.11	.19	.09	6.0	16.
%RSD	1.520	.1973	1.718	.3751	3.563	.3262

#1	4.220	54.44	10.63	24.74	176.1	4797.
#2	4.323	54.38	10.98	24.65	165.3	4821.
#3	4.342	54.59	10.71	24.83	166.1	4827.

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	4902.	16.56	4708.	44.87	10.37	19.27
Stddev	26.	.04	34.	.24	1.11	1.32
%RSD	.5274	.2302	.7148	.5357	10.69	6.871

#1	4875.	16.53	4670.	45.08	10.51	20.34
#2	4926.	16.60	4724.	44.92	11.41	17.79
#3	4904.	16.54	4732.	44.60	9.202	19.68

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

Sample Name: CCVL Acquired: 4/14/2016 19:26:21 Type: QC
Method: sw04052016(v10) 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	19.41	24.21	52.36	32.33	50.36	20.15
Stddev	3.16	.79	.11	.35	.26	.11
%RSD	16.29	3.248	.2007	1.080	.5136	.5461
#1	22.75	25.11	52.24	32.26	50.09	20.22
#2	19.01	23.66	52.40	32.70	50.36	20.20
#3	16.47	23.86	52.44	32.01	50.61	20.02

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	52.80	20.74	20.50	F -4.095
Stddev	.30	.04	.14	20.98
%RSD	.5617	.1965	.6957	512.5
#1	53.12	20.70	20.65	-27.64
#2	52.74	20.77	20.47	2.712
#3	52.54	20.76	20.37	12.64

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	3038.8	40324.	5383.6
Stddev	2.7	145.	38.8
%RSD	.09017	.35850	.72093
#1	3038.1	40258.	5406.5
#2	3036.4	40224.	5405.4
#3	3041.8	40490.	5338.8

Sample Name: 460-111932-C-1-A@4 Acquired: 4/14/2016 18:45:59 Type: Unk
Method: sw04052016(v10) 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	50120.	32.43	.0960	448.7	2.117	6537.
Stddev	285.	2.84	.5492	.8	.099	48.
%RSD	.5677	8.754	572.0	.1739	4.697	.7383

#1	50370.	30.08	-.0450	449.6	2.220	6574.
#2	49810.	31.62	-.3690	448.3	2.021	6553.
#3	50170.	35.58	.7020	448.2	2.109	6482.

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	.8444	40.25	247.9	133.9	83950.	6146.
Stddev	.0454	.18	1.6	.4	108.	17.
%RSD	5.377	.4554	.6433	.2895	.1285	.2786

#1	.8756	40.45	249.3	133.7	83900.	6151.
#2	.7923	40.10	248.3	134.4	84080.	6127.
#3	.8654	40.20	246.2	133.7	83880.	6160.

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	28620.	1445.	323.0	91.63	1024.	3.851
Stddev	56.	5.	5.8	.06	2.	1.569
%RSD	.1955	.3239	1.805	.0659	.2235	40.75

#1	28680.	1450.	329.6	91.64	1026.	2.824
#2	28570.	1442.	320.4	91.57	1022.	5.658
#3	28620.	1441.	318.8	91.69	1025.	3.072

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

Sample Name: 460-111932-C-1-A@4 Acquired: 4/14/2016 18:45:59 Type: Unk
Method: sw04052016(v10) 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	7.310	-2.066	162.6	665.2	5.049	4.650
Stddev	.372	3.287	1.1	.6	.089	.356
%RSD	5.093	159.1	.6744	.0828	1.759	7.666
#1	7.420	.7466	162.3	665.8	4.947	4.294
#2	6.896	-5.679	163.8	665.2	5.113	4.650
#3	7.616	-1.266	161.7	664.7	5.086	5.007

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	19.31	28.40	1449.	1966.
Stddev	.33	.04	3.	11.
%RSD	1.712	.1322	.1778	.5434
#1	18.94	28.36	1446.	1958.
#2	19.43	28.40	1450.	1962.
#3	19.57	28.44	1451.	1978.

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	3060.1	41041.	5657.6
Stddev	13.9	329.	69.8
%RSD	.45410	.80248	1.2334
#1	3044.1	40670.	5585.1
#2	3069.4	41151.	5724.3
#3	3066.9	41301.	5663.4

Sample Name: 460-111932-C-2-A@4 Acquired: 4/14/2016 18:49:59 Type: Unk
Method: sw04052016(v10) 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	38690.	88.74	1.160	1182.	2.338	11160.
Stddev	234.	1.43	.092	2.	.055	37.
%RSD	.6046	1.614	7.966	.1335	2.372	.3324
#1	38490.	87.53	1.101	1183.	2.353	11120.
#2	38640.	88.36	1.266	1181.	2.384	11180.
#3	38950.	90.32	1.112	1184.	2.276	11180.

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	1.189	42.23	108.4	334.1	86720.	2230.
Stddev	.025	.23	.5	.5	246.	47.
%RSD	2.111	.5418	.4587	.1489	.2841	2.094
#1	1.195	42.18	108.1	333.9	86620.	2178.
#2	1.161	42.02	108.1	333.8	86530.	2268.
#3	1.210	42.47	109.0	334.7	87000.	2245.

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	8070.	1371.	848.1	63.37	1606.	5.830
Stddev	25.	2.	13.7	.14	9.	.362
%RSD	.3064	.1700	1.619	.2198	.5693	6.218
#1	8042.	1369.	840.1	63.30	1597.	6.244
#2	8079.	1373.	840.2	63.29	1606.	5.571
#3	8090.	1373.	863.9	63.53	1616.	5.674

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

Sample Name: 460-111932-C-2-A@4 Acquired: 4/14/2016 18:49:59 Type: Unk
Method: sw04052016(v10) 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	8.156	-1.884	142.7	816.3	9.023	7.705
Stddev	1.309	1.555	.9	5.4	.581	.147
%RSD	16.05	82.51	.6583	.6663	6.441	1.910
#1	7.998	-.4722	142.1	811.4	9.455	7.873
#2	9.536	-1.630	142.2	815.3	8.362	7.599
#3	6.933	-3.551	143.8	822.1	9.251	7.642

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	33.51	74.76	1118.	1548.
Stddev	.36	.15	2.	31.
%RSD	1.080	.1954	.1916	1.977
#1	33.10	74.60	1117.	1573.
#2	33.66	74.79	1116.	1514.
#3	33.77	74.89	1120.	1556.

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	3123.9	41344.	5709.9
Stddev	10.5	159.	49.3
%RSD	.33559	.38419	.86321
#1	3111.8	41306.	5766.8
#2	3129.3	41207.	5679.3
#3	3130.5	41518.	5683.7

Sample Name: 460-111932-C-15-A@4 Acquired: 4/14/2016 19:50:36 Type: Unk
Method: sw04052016(v10) 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	34520.	59.51	.9409	290.5	1.775	5510.
Stddev	218.	1.44	.6145	.8	.115	10.
%RSD	.6319	2.420	65.31	.2822	6.478	.1810

#1	34310.	60.99	.7899	289.9	1.642	5517.
#2	34750.	58.12	1.617	290.3	1.841	5498.
#3	34490.	59.44	.4159	291.5	1.841	5514.

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	1.024	37.35	79.22	144.7	65970.	1125.
Stddev	.205	.27	.31	1.2	86.	21.
%RSD	20.04	.7346	.3956	.8460	.1309	1.823

#1	.8310	37.04	78.99	145.2	65880.	1102.
#2	1.002	37.54	79.58	143.3	66040.	1140.
#3	1.240	37.47	79.09	145.5	66000.	1133.

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	3880.	1065.	154.6	49.96	555.7	3.456
Stddev	12.	2.	11.8	.05	1.2	.734
%RSD	.3118	.2209	7.660	.1006	.2223	21.24

#1	3894.	1064.	146.4	49.99	555.4	3.644
#2	3872.	1068.	149.3	49.98	554.7	4.079
#3	3873.	1063.	168.2	49.90	557.1	2.647

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

Sample Name: 460-111932-C-15-A@4 Acquired: 4/14/2016 19:50:36 Type: Unk
Method: sw04052016(v10) 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	6.165	-.9469	96.02	621.8	6.848	2.377
Stddev	2.167	.5721	.80	1.1	.422	.088
%RSD	35.16	60.42	.8353	.1693	6.167	3.687
#1	8.249	-1.302	96.49	620.7	6.507	2.425
#2	6.322	-.2869	95.10	622.8	6.717	2.276
#3	3.923	-1.252	96.48	622.0	7.320	2.431

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	13.69	25.90	677.2	1161.
Stddev	1.17	.05	.9	15.
%RSD	8.560	.1758	.1385	1.312
#1	15.04	25.88	677.2	1162.
#2	12.93	25.95	676.2	1145.
#3	13.10	25.87	678.1	1176.

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	3101.6	41340.	5586.6
Stddev	6.8	48.	38.5
%RSD	.22074	.11527	.68940
#1	3094.9	41325.	5613.4
#2	3108.6	41302.	5542.5
#3	3101.4	41393.	5603.9

Sample Name: 460-111932-C-17-A@4 Acquired: 4/14/2016 19:58:46 Type: Unk
Method: sw04052016(v10) 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	42410.	226.9	.6312	406.5	2.151	8496.
Stddev	149.	2.8	.5266	.5	.013	50.
%RSD	.3520	1.241	83.44	.1182	.6193	.5870
#1	42510.	229.9	.3504	406.8	2.140	8443.
#2	42240.	224.2	.3044	405.9	2.166	8542.
#3	42470.	226.5	1.239	406.7	2.148	8502.

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	1.141	34.29	105.9	128.7	76280.	2308.
Stddev	.079	.19	.6	.9	295.	10.
%RSD	6.917	.5401	.5732	.6701	.3865	.4544
#1	1.062	34.08	105.4	129.7	76010.	2317.
#2	1.219	34.42	105.7	128.4	76240.	2310.
#3	1.142	34.38	106.6	128.1	76600.	2296.

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	8223.	1216.	257.7	61.17	648.6	2.744
Stddev	25.	4.	6.1	.58	4.4	1.550
%RSD	.3052	.3116	2.370	.9498	.6788	56.49
#1	8249.	1212.	260.1	60.78	643.5	4.521
#2	8198.	1218.	262.2	61.84	650.6	1.665
#3	8224.	1219.	250.7	60.89	651.5	2.047

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

Sample Name: 460-111932-C-17-A@4 Acquired: 4/14/2016 19:58:46 Type: Unk
Method: sw04052016(v10) 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	7.528	-.9165	126.5	783.5	17.60	3.025
Stddev	1.150	.2306	.8	5.2	.52	.300
%RSD	15.28	25.16	.6502	.6693	2.981	9.907
#1	8.233	-1.169	127.5	777.5	17.79	3.371
#2	6.200	-.8644	126.1	785.9	17.00	2.848
#3	8.149	-.7164	126.0	787.2	18.00	2.855

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	16.73	53.78	1194.	1584.
Stddev	.70	.02	2.	8.
%RSD	4.198	.0431	.1765	.4804
#1	17.43	53.77	1193.	1577.
#2	16.74	53.76	1192.	1584.
#3	16.02	53.80	1196.	1592.

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	3061.5	40675.	5527.4
Stddev	15.1	96.	9.5
%RSD	.49425	.23512	.17236
#1	3045.5	40580.	5525.4
#2	3063.4	40771.	5519.0
#3	3075.6	40674.	5537.7

Sample Name: 460-111932-D-18-A@4 Acquired: 4/14/2016 20:02:49 Type: Unk
Method: sw04052016(v10) 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	41750.	110.9	.5896	423.6	2.360	19270.
Stddev	329.	2.3	.3033	.5	.012	49.
%RSD	.7868	2.059	51.44	.1133	.5207	.2564
#1	41380.	109.5	.3244	423.3	2.373	19230.
#2	42010.	109.7	.9202	424.2	2.348	19270.
#3	41850.	113.5	.5241	423.5	2.358	19330.

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	.2696	34.83	122.0	134.8	83930.	2604.
Stddev	.0647	.13	.4	.5	211.	27.
%RSD	23.99	.3721	.3255	.3826	.2510	1.025
#1	.2066	34.68	121.6	134.7	83770.	2589.
#2	.2663	34.92	122.0	135.3	83840.	2589.
#3	.3358	34.89	122.4	134.3	84160.	2635.

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	13560.	879.0	281.2	65.49	712.3	2.272
Stddev	49.	1.7	11.8	.51	1.6	.196
%RSD	.3632	.1905	4.181	.7711	.2236	8.637
#1	13510.	877.1	279.2	65.22	714.2	2.065
#2	13560.	879.8	293.8	66.07	711.6	2.456
#3	13610.	880.1	270.5	65.18	711.3	2.293

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

Sample Name: 460-111932-D-18-A@4 Acquired: 4/14/2016 20:02:49 Type: Unk
Method: sw04052016(v10) 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	7.354	-1.409	132.4	820.8	8.470	3.279
Stddev	1.235	1.982	.3	1.7	.631	.160
%RSD	16.79	140.6	.2545	.2109	7.456	4.885
#1	5.928	-3.486	132.1	819.1	7.913	3.259
#2	8.099	.4621	132.7	822.5	9.156	3.448
#3	8.033	-1.204	132.4	821.0	8.341	3.130

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	26.05	78.63	1400.	1601.
Stddev	1.09	.68	3.	25.
%RSD	4.172	.8674	.1817	1.532
#1	27.30	78.15	1398.	1598.
#2	25.36	79.41	1401.	1627.
#3	25.48	78.33	1403.	1578.

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	3105.0	41346.	5555.6
Stddev	8.4	44.	19.6
%RSD	.27080	.10534	.35329
#1	3096.0	41396.	5578.2
#2	3106.3	41313.	5544.5
#3	3112.7	41331.	5543.9

Sample Name: 460-111932-C-4-A@4 Acquired: 4/14/2016 18:58:01 Type: Unk
Method: sw04052016(v10) 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	36620.	13.00	-.2861	223.9	1.710	3592.
Stddev	327.	1.47	.3910	.7	.023	21.
%RSD	.8926	11.31	136.7	.2925	1.365	.5709

#1	36950.	13.44	.0672	224.7	1.699	3572.
#2	36620.	11.36	-.7062	223.5	1.694	3592.
#3	36300.	14.20	-.2192	223.5	1.736	3613.

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	-.5181	17.93	76.03	66.95	58830.	1779.
Stddev	.0397	.08	.48	.66	71.	5.
%RSD	7.669	.4233	.6300	.9876	.1206	.2968

#1	-.5013	17.97	75.59	67.22	58750.	1775.
#2	-.4895	17.84	75.97	67.44	58890.	1785.
#3	-.5634	17.97	76.54	66.20	58840.	1778.

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	4933.	434.7	237.5	39.50	165.8	1.620
Stddev	25.	1.3	7.8	.04	1.0	.678
%RSD	.4975	.3073	3.299	.0920	.6084	41.86

#1	4915.	433.6	238.5	39.50	164.7	1.483
#2	4961.	434.3	229.2	39.47	166.6	1.021
#3	4923.	436.2	244.8	39.54	166.1	2.356

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

Sample Name: 460-111932-C-4-A@4 Acquired: 4/14/2016 18:58:01 Type: Unk
Method: sw04052016(v10) 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	6.767	-.9949	102.2	200.7	2.654	2.320
Stddev	4.333	1.111	.4	1.7	.934	.137
%RSD	64.03	111.6	.3947	.8288	35.19	5.910
#1	4.519	-2.270	101.8	199.6	1.582	2.391
#2	11.76	-.2338	102.5	199.8	3.295	2.162
#3	4.020	-.4815	102.3	202.6	3.085	2.406

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	4.640	30.05	891.6	1293.
Stddev	.185	.09	.2	10.
%RSD	3.978	.3101	.0239	.7506
#1	4.539	30.15	891.7	1293.
#2	4.528	29.97	891.7	1283.
#3	4.853	30.02	891.3	1302.

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	3086.7	41355.	5730.0
Stddev	3.2	78.	20.8
%RSD	.10502	.18899	.36240
#1	3088.5	41328.	5707.7
#2	3088.6	41443.	5733.5
#3	3082.9	41295.	5748.8

Sample Name: CCB Acquired: 4/14/2016 20:14:55 Type: QC
Method: sw04052016(v10) 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	5.717	-1.774	.2889	-.1225	-.0389	-9.274
Stddev	9.338	2.152	.5403	.0895	.0898	3.846
%RSD	163.3	121.3	187.0	73.06	230.6	41.47
#1	8.180	-.4956	.8509	-.0942	-.1051	-12.46
#2	-4.605	-4.258	.2423	-.2228	.0633	-5.000
#3	13.58	-.5678	-.2266	-.0506	-.0750	-10.37

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	-.0960	-.1210	.6977	-.0125	-1.778	3.511
Stddev	.0748	.0277	.4143	.2449	12.24	36.42
%RSD	77.90	22.93	59.39	1958.	688.3	1037.
#1	-.0637	-.1490	.8479	-.2353	-15.68	-23.34
#2	-.1815	-.0935	.2292	.2497	2.991	44.97
#3	-.0428	-.1204	1.016	-.0519	7.359	-11.10

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	-3.175	-.0259	.2353	-.1593	-.6660	.6997
Stddev	4.707	.1121	8.923	.2734	1.425	1.181
%RSD	148.2	433.3	3792.	171.6	213.9	168.7
#1	1.113	.0421	8.119	-.3915	-1.899	1.681
#2	-2.426	-.1552	2.039	.1420	.8934	1.028
#3	-8.213	.0355	-9.452	-.2284	-.9926	-.6104

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

Sample Name: CCB Acquired: 4/14/2016 20:14:55 Type: QC
Method: sw04052016(v10) 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	.8761	-.0313	.0210	.0490	-.4097	.2264
Stddev	1.459	.7475	.4670	.2492	.6166	.6315
%RSD	166.5	2386.	2221.	508.5	150.5	279.0
#1	-.6920	-.3282	.3487	.0515	.2193	.7741
#2	1.128	-.5849	-.5137	-.2014	-.4353	.3695
#3	2.193	.8191	.2282	.2970	-1.013	-.4644

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	.0586	-.0526	.1358	-13.92
Stddev	.8070	.0309	.0660	7.20
%RSD	1377.	58.76	48.60	51.69
#1	.0857	-.0206	.1631	-21.91
#2	-.7616	-.0823	.0606	-7.957
#3	.8517	-.0550	.1839	-11.89

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	3031.5	40457.	5313.6
Stddev	22.2	438.	109.0
%RSD	.73308	1.0818	2.0517
#1	3006.6	40099.	5254.2
#2	3038.8	40327.	5247.1
#3	3049.2	40945.	5439.4

Sample Name: 460-111932-C-5-A@4 Acquired: 4/14/2016 19:02:06 Type: Unk
Method: sw04052016(v10) 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	39790.	47.78	.8217	470.4	1.737	8854.
Stddev	232.	1.89	.3564	2.1	.159	88.
%RSD	.5834	3.960	43.37	.4364	9.134	.9923

#1	39980.	45.69	.7655	468.1	1.557	8754.
#2	39530.	49.37	1.203	470.8	1.854	8892.
#3	39850.	48.27	.4968	472.2	1.801	8917.

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	1.294	49.20	139.6	261.6	90800.	4609.
Stddev	.098	.10	1.7	1.6	848.	45.
%RSD	7.556	.2008	1.248	.6215	.9340	.9657

#1	1.405	49.13	137.6	259.8	89880.	4581.
#2	1.221	49.14	140.4	262.8	90990.	4586.
#3	1.257	49.31	140.7	262.3	91540.	4660.

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	20690.	1534.	280.8	68.38	2978.	3.506
Stddev	179.	14.	2.7	.68	18.	1.934
%RSD	.8641	.9231	.9570	.9941	.6065	55.16

#1	20490.	1519.	278.0	68.63	2959.	4.961
#2	20750.	1537.	280.9	67.60	2982.	4.244
#3	20840.	1547.	283.4	68.89	2994.	1.312

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

Sample Name: 460-111932-C-5-A@4 Acquired: 4/14/2016 19:02:06 Type: Unk
Method: sw04052016(v10) 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	11.45	-7.592	149.2	818.5	6.215	5.847
Stddev	5.38	.8062	1.2	6.5	.386	.083
%RSD	46.99	106.2	.7900	.7916	6.208	1.420
#1	9.098	-1.322	147.8	811.3	6.232	5.862
#2	17.61	.1644	150.0	820.3	6.591	5.757
#3	7.646	-1.120	149.7	823.9	5.820	5.921

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	26.62	36.41	992.4	1714.
Stddev	.48	.11	7.8	27.
%RSD	1.803	.2925	.7870	1.557
#1	26.78	36.29	984.5	1685.
#2	27.01	36.46	992.5	1738.
#3	26.09	36.48	1000.	1718.

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	3045.1	40802.	5687.1
Stddev	6.0	87.	44.9
%RSD	.19632	.21432	.78896
#1	3044.1	40860.	5647.2
#2	3039.8	40701.	5735.6
#3	3051.6	40844.	5678.4

Sample Name: 460-111932-C-7-A@4 Acquired: 4/14/2016 19:10:09 Type: Unk
Method: sw04052016(v10) 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	35160.	108.4	1.950	1542.	2.402	31680.
Stddev	285.	.3	.229	2.	.138	135.
%RSD	.8097	.2891	11.75	.1576	5.756	.4244

#1	34850.	108.0	2.104	1543.	2.476	31830.
#2	35220.	108.4	1.686	1539.	2.242	31580.
#3	35410.	108.7	2.059	1542.	2.487	31640.

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	57.46	47.34	126.7	422.2	105600.	3443.
Stddev	.16	.16	.5	.5	365.	25.
%RSD	.2835	.3429	.4038	.1224	.3454	.7180

#1	57.64	47.50	126.2	422.7	105200.	3450.
#2	57.42	47.18	127.0	422.1	105700.	3464.
#3	57.32	47.34	127.1	421.7	106000.	3416.

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	7482.	1457.	592.5	306.3	5432.	7.006
Stddev	25.	3.	15.0	1.0	17.	.786
%RSD	.3396	.2272	2.538	.3346	.3072	11.22

#1	7502.	1460.	575.2	306.3	5415.	7.615
#2	7453.	1454.	602.8	305.3	5433.	6.119
#3	7490.	1455.	599.4	307.4	5448.	7.283

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

Sample Name: 460-111932-C-7-A@4 Acquired: 4/14/2016 19:10:09 Type: Unk
Method: sw04052016(v10) 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	7.718	.1496	126.6	2377.	15.34	4.803
Stddev	1.861	1.976	.3	6.	.86	.072
%RSD	24.12	1321.	.2334	.2645	5.611	1.498
#1	5.581	-1.453	126.3	2370.	14.68	4.834
#2	8.587	2.358	126.8	2378.	16.32	4.854
#3	8.985	-.4554	126.8	2383.	15.03	4.720

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	52.47	203.2	919.6	2113.
Stddev	.88	.9	1.4	17.
%RSD	1.675	.4368	.1560	.8259
#1	53.48	202.2	918.3	2093.
#2	51.99	203.6	919.4	2125.
#3	51.92	203.8	921.1	2120.

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	3130.8	42071.	5796.8
Stddev	9.7	153.	67.1
%RSD	.31135	.36437	1.1577
#1	3119.6	41894.	5721.6
#2	3135.2	42163.	5850.7
#3	3137.5	42156.	5818.2

Sample Name: CCV Acquired: 4/14/2016 19:18:11 Type: QC
Method: sw04052016(v10) 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	119100.	2538.	1209.	10330.	978.2	125700.
Stddev	723.	2.	7.	29.	5.3	103.
%RSD	.6070	.0974	.6118	.2782	.5370	.0820

#1	118900.	2537.	1201.	10370.	976.6	125600.
#2	118500.	2541.	1209.	10310.	973.9	125800.
#3	119900.	2537.	1216.	10320.	984.0	125800.

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	1273.	2519.	5150.	12490.	98700.	48470.
Stddev	2.	4.	15.	35.	314.	171.
%RSD	.1823	.1741	.2965	.2810	.3176	.3523

#1	1275.	2521.	5168.	12450.	98930.	48410.
#2	1271.	2514.	5145.	12510.	98350.	48330.
#3	1273.	2521.	5139.	12520.	98830.	48660.

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	120400.	5091.	120500.	2585.	7398.	993.1
Stddev	524.	3.	1080.	8.	16.	3.9
%RSD	.4350	.0625	.8964	.3153	.2201	.3919

#1	120100.	5088.	120400.	2595.	7390.	992.6
#2	120200.	5090.	119400.	2582.	7387.	989.4
#3	121000.	5094.	121600.	2579.	7417.	997.2

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

Sample Name: CCV Acquired: 4/14/2016 19:18:11 Type: QC
Method: sw04052016(v10) 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	2558.	2533.	2509.	2495.	1026.	2550.
Stddev	5.	11.	1.	9.	2.	1.
%RSD	.1948	.4387	.0592	.3591	.2290	.0349

#1	2554.	2522.	2509.	2494.	1029.	2551.
#2	2564.	2544.	2508.	2486.	1024.	2550.
#3	2556.	2533.	2511.	2504.	1026.	2549.

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	1029.	5022.	9864.	9707.
Stddev	3.	16.	61.	18.
%RSD	.3181	.3252	.6137	.1894

#1	1033.	5014.	9908.	9728.
#2	1029.	5011.	9795.	9697.
#3	1026.	5040.	9890.	9696.

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	2861.9	38479.	5409.7
Stddev	9.5	122.	56.3
%RSD	.33028	.31613	1.0402

#1	2864.6	38535.	5441.9
#2	2869.8	38562.	5442.5
#3	2851.4	38339.	5344.7

Sample Name: CCB Acquired: 4/14/2016 19:22:08 Type: QC
Method: sw04052016(v10) 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	-7.646	-1.737	.1354	.1332	.0630	-17.75
Stddev	5.877	3.021	.1508	.0176	.0479	4.28
%RSD	76.87	173.9	111.4	13.21	76.00	24.13
#1	-3.402	-1.580	.2878	.1530	.0913	-19.12
#2	-5.182	1.202	-.0136	.1195	.0900	-21.19
#3	-14.35	-4.833	.1320	.1270	.0077	-12.95

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	-.0414	.0462	.4421	-.7092	-.6214	21.79
Stddev	.1355	.2256	.2192	.1629	7.006	11.59
%RSD	327.0	487.8	49.58	22.98	1127.	53.19
#1	.0731	.3002	.6688	-.8209	4.660	33.11
#2	-.1910	-.0303	.2311	-.7845	2.046	22.33
#3	-.0065	-.1311	.4266	-.5222	-8.570	9.941

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	-.7634	.0481	-1.207	.0905	-1.259	-.0236
Stddev	4.895	.0525	6.453	.4441	1.018	1.191
%RSD	641.2	109.2	534.6	490.5	80.91	5039.
#1	3.498	.0510	3.013	-.2934	-.9477	-.5086
#2	.3215	.0990	2.001	.5769	-2.396	1.333
#3	-6.109	-.0058	-8.635	-.0119	-.4320	-.8953

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

Sample Name: CCB Acquired: 4/14/2016 19:22:08 Type: QC
Method: sw04052016(v10) 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	1.469	-.8894	.0877	-.0067	-.9357	.4297
Stddev	2.973	.4501	.2518	.3633	.3877	.5258
%RSD	202.4	50.61	287.2	5393.	41.44	122.4
#1	3.327	-.6306	-.1431	.3904	-.5116	.9706
#2	-1.960	-.6283	.3562	-.0882	-1.024	.3981
#3	3.039	-1.409	.0498	-.3224	-1.272	-.0796

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	.4167	.0407	.1496	-12.53
Stddev	.9925	.0363	.0787	6.73
%RSD	238.2	89.37	52.60	53.74
#1	1.147	.0090	.1578	-20.06
#2	.8167	.0326	.2238	-10.41
#3	-.7134	.0803	.0671	-7.110

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	3030.5	40587.	5435.8
Stddev	12.1	174.	27.8
%RSD	.39865	.42820	.51129
#1	3016.6	40388.	5404.0
#2	3038.1	40710.	5447.9
#3	3036.8	40663.	5455.5

Sample Name: 460-111932-C-9-A@4 Acquired: 4/14/2016 19:30:30 Type: Unk
Method: sw04052016(v10) 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	37490.	52.14	2.368	920.3	3.784	61650.
Stddev	278.	.44	.509	1.8	.042	192.
%RSD	.7407	.8472	21.49	.1987	1.113	.3120
#1	37170.	52.51	1.935	922.2	3.816	61620.
#2	37640.	51.65	2.929	920.1	3.800	61480.
#3	37660.	52.26	2.241	918.5	3.736	61860.

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	13.85	70.97	93.47	339.5	70760.	4245.
Stddev	.20	.27	.18	1.5	293.	34.
%RSD	1.412	.3858	.1887	.4539	.4135	.7916
#1	13.94	71.03	93.29	338.0	70470.	4227.
#2	13.62	70.68	93.64	339.4	70760.	4224.
#3	13.98	71.21	93.48	341.1	71050.	4284.

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	16410.	2045.	782.1	97.80	4599.	8.359
Stddev	76.	5.	6.8	.27	3.	.104
%RSD	.4644	.2226	.8719	.2793	.0608	1.240
#1	16350.	2043.	774.3	97.87	4595.	8.240
#2	16380.	2042.	786.9	97.49	4601.	8.406
#3	16490.	2050.	785.0	98.02	4600.	8.431

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

Sample Name: 460-111932-C-9-A@4 Acquired: 4/14/2016 19:30:30 Type: Unk
Method: sw04052016(v10) 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	6.253	.5276	102.9	1963.	17.47	3.923
Stddev	3.859	1.753	.5	1.	.42	.339
%RSD	61.71	332.2	.4849	.0701	2.401	8.652
#1	5.080	.5762	102.4	1961.	17.12	4.188
#2	10.56	2.255	103.1	1963.	17.35	3.541
#3	3.116	-1.249	103.3	1964.	17.94	4.041

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	64.15	274.6	1254.	1655.
Stddev	.71	.8	3.	15.
%RSD	1.112	.3090	.2106	.8894
#1	63.52	273.7	1252.	1638.
#2	64.02	275.3	1254.	1667.
#3	64.92	274.9	1257.	1659.

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	3204.4	42756.	5879.3
Stddev	15.7	224.	17.7
%RSD	.49011	.52309	.30023
#1	3188.0	42510.	5871.4
#2	3205.8	42948.	5899.5
#3	3219.3	42809.	5866.9

Sample Name: 460-111932-C-10-A@4 Acquired: 4/14/2016 19:34:30 Type: Unk
Method: sw04052016(v10) 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	44300.	147.9	.7243	407.9	2.956	11890.
Stddev	469.	1.8	.2881	1.7	.031	43.
%RSD	1.059	1.247	39.78	.4145	1.062	.3584
#1	44300.	146.6	.4776	406.3	2.986	11840.
#2	43830.	147.0	.6542	407.8	2.923	11910.
#3	44760.	150.0	1.041	409.6	2.959	11920.

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	.5075	77.53	90.72	89.00	75820.	2027.
Stddev	.0322	.35	.77	.81	162.	55.
%RSD	6.348	.4492	.8492	.9064	.2142	2.723
#1	.4849	77.32	90.19	89.51	75660.	1986.
#2	.4933	77.33	90.36	89.42	75830.	2004.
#3	.5444	77.93	91.60	88.07	75990.	2090.

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	7140.	4221.	254.1	77.00	493.5	1.099
Stddev	45.	8.	14.6	.15	4.0	2.084
%RSD	.6359	.1949	5.729	.1966	.8033	189.7
#1	7107.	4212.	270.6	76.88	489.0	1.059
#2	7192.	4225.	248.4	77.17	494.9	-.9648
#3	7120.	4227.	243.2	76.96	496.6	3.202

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

Sample Name: 460-111932-C-10-A@4 Acquired: 4/14/2016 19:34:30 Type: Unk
Method: sw04052016(v10) 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	7.943	-1.539	119.6	452.3	6.005	3.748
Stddev	1.725	.766	1.0	3.0	.456	.277
%RSD	21.72	49.75	.8308	.6539	7.597	7.390
#1	6.148	-.7064	119.5	448.9	5.478	4.059
#2	8.092	-2.213	120.7	454.2	6.248	3.527
#3	9.590	-1.699	118.7	453.8	6.287	3.658

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	12.57	105.0	599.4	1631.
Stddev	1.25	1.0	.2	12.
%RSD	9.932	.9847	.0310	.7445
#1	13.97	104.5	599.3	1624.
#2	12.17	104.3	599.3	1624.
#3	11.57	106.1	599.6	1645.

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	3139.0	41517.	5549.2
Stddev	11.3	85.	60.1
%RSD	.35982	.20581	1.0828
#1	3140.9	41516.	5586.3
#2	3149.2	41603.	5581.5
#3	3126.8	41432.	5479.9

Sample Name: 460-111932-C-11-A@4 Acquired: 4/14/2016 19:38:32 Type: Unk
Method: sw04052016(v10) 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	44540.	42.09	1.059	559.2	1.868	10670.
Stddev	175.	2.47	.402	.7	.102	24.
%RSD	.3923	5.874	37.91	.1323	5.451	.2206

#1	44340.	44.82	1.506	559.7	1.983	10650.
#2	44660.	40.01	.9445	558.4	1.834	10670.
#3	44620.	41.45	.7278	559.6	1.788	10690.

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	1.043	40.67	192.9	274.4	79990.	7057.
Stddev	.113	.14	.7	1.0	128.	54.
%RSD	10.83	.3488	.3709	.3494	.1605	.7610

#1	.9126	40.57	192.8	274.9	80030.	7000.
#2	1.109	40.83	192.2	274.9	80080.	7063.
#3	1.107	40.61	193.6	273.3	79840.	7107.

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	19230.	1567.	345.1	112.4	891.0	1.405
Stddev	42.	3.	5.8	.7	2.5	2.104
%RSD	.2209	.2127	1.672	.6299	.2853	149.7

#1	19180.	1564.	340.1	111.7	892.0	2.520
#2	19270.	1566.	351.4	112.5	892.9	-1.021
#3	19230.	1570.	343.7	113.1	888.1	2.716

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

Sample Name: 460-111932-C-11-A@4 Acquired: 4/14/2016 19:38:32 Type: Unk
Method: sw04052016(v10) 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	8.552	-1.464	131.1	798.3	4.391	2.782
Stddev	2.025	2.049	.5	2.5	.032	.228
%RSD	23.68	139.9	.4122	.3109	.7164	8.201
#1	7.575	.1974	131.3	795.6	4.356	3.045
#2	7.202	-3.753	131.5	800.5	4.403	2.631
#3	10.88	-.8373	130.4	798.8	4.415	2.670

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	23.69	47.39	1339.	1723.
Stddev	.29	.38	1.	5.
%RSD	1.220	.8055	.0908	.3053
#1	24.02	46.98	1339.	1728.
#2	23.50	47.44	1340.	1718.
#3	23.55	47.74	1338.	1723.

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	3098.5	41449.	5641.5
Stddev	4.7	59.	56.4
%RSD	.15302	.14192	.99964
#1	3101.2	41411.	5706.5
#2	3101.3	41517.	5613.3
#3	3093.0	41419.	5604.8

Sample Name: 460-111932-C-12-A@4 Acquired: 4/14/2016 19:42:33 Type: Unk
Method: sw04052016(v10) 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	53640.	31.20	1.071	545.1	2.232	13990.
Stddev	1375.	.86	.435	9.0	.028	305.
%RSD	2.563	2.764	40.60	1.650	1.259	2.180

#1	52150.	30.91	.6857	535.5	2.241	13680.
#2	53920.	32.17	1.542	546.5	2.201	14000.
#3	54860.	30.52	.9841	553.3	2.255	14290.

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	2.347	35.27	128.0	267.3	77270.	7779.
Stddev	.097	.78	2.4	5.4	1597.	219.
%RSD	4.150	2.198	1.841	2.031	2.066	2.810

#1	2.294	34.52	125.8	261.8	75580.	7554.
#2	2.288	35.22	127.6	267.5	77490.	7792.
#3	2.459	36.07	130.5	272.7	78750.	7990.

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	14910.	1625.	475.0	121.3	660.4	2.873
Stddev	336.	32.	9.7	2.6	13.3	1.499
%RSD	2.252	1.967	2.051	2.154	2.009	52.19

#1	14550.	1592.	467.8	118.5	647.1	4.056
#2	14950.	1627.	471.0	121.5	660.5	1.187
#3	15220.	1655.	486.1	123.7	673.7	3.375

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

Sample Name: 460-111932-C-12-A@4 Acquired: 4/14/2016 19:42:33 Type: Unk
Method: sw04052016(v10) 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	5.986	-7.512	122.4	620.0	2.600	2.660
Stddev	3.627	.5527	2.2	13.2	.636	.390
%RSD	60.59	73.58	1.821	2.124	24.47	14.67
#1	9.474	-5.742	120.7	606.9	2.305	2.456
#2	6.248	-3.086	121.6	620.1	2.165	2.414
#3	2.235	-1.371	124.9	633.2	3.331	3.110

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	15.59	48.39	1559.	2205.
Stddev	.77	1.47	31.	73.
%RSD	4.962	3.030	1.986	3.304
#1	16.46	46.79	1527.	2125.
#2	14.96	48.71	1560.	2222.
#3	15.36	49.66	1589.	2267.

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	3099.2	41523.	5718.5
Stddev	1.3	72.	51.5
%RSD	.04205	.17395	.90023
#1	3099.0	41541.	5777.8
#2	3100.7	41585.	5692.6
#3	3098.1	41444.	5685.1

Sample Name: 460-111932-C-14-A@4 Acquired: 4/14/2016 19:46:34 Type: Unk
Method: sw04052016(v10) 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	36290.	87.90	.2699	298.4	1.988	5949.
Stddev	262.	1.40	.1984	.3	.041	24.
%RSD	.7227	1.588	73.51	.0854	2.080	.4060
#1	36180.	86.92	.4545	298.7	2.011	5958.
#2	36110.	89.50	.2951	298.2	2.013	5967.
#3	36590.	87.29	.0601	298.2	1.940	5921.

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	.0412	40.64	90.86	113.4	71430.	2120.
Stddev	.0425	.37	.57	.0	279.	37.
%RSD	103.4	.9219	.6315	.0300	.3899	1.738
#1	.0288	40.41	91.39	113.4	71190.	2158.
#2	.0062	41.07	90.94	113.4	71740.	2084.
#3	.0885	40.45	90.25	113.4	71380.	2119.

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	6104.	1042.	343.4	43.48	478.6	2.111
Stddev	21.	4.	14.9	.54	1.8	.539
%RSD	.3361	.3487	4.334	1.244	.3852	25.51
#1	6110.	1043.	326.3	43.18	477.2	2.339
#2	6120.	1044.	350.0	43.16	480.7	2.499
#3	6081.	1037.	353.8	44.10	477.9	1.496

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

Sample Name: 460-111932-C-14-A@4 Acquired: 4/14/2016 19:46:34 Type: Unk
Method: sw04052016(v10) 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	6.072	-2.386	113.3	392.1	3.306	1.793
Stddev	.883	.197	.2	1.7	.881	.264
%RSD	14.54	8.235	.2123	.4285	26.64	14.72
#1	7.060	-2.536	113.1	390.2	2.894	1.489
#2	5.360	-2.164	113.6	393.4	2.707	1.962
#3	5.797	-2.459	113.2	392.8	4.318	1.928

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	15.95	26.40	1147.	1487.
Stddev	.24	.13	3.	18.
%RSD	1.479	.4938	.2252	1.179
#1	16.11	26.50	1145.	1471.
#2	15.68	26.25	1150.	1506.
#3	16.05	26.43	1146.	1484.

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	3122.0	41793.	5674.5
Stddev	26.2	339.	22.9
%RSD	.83960	.81151	.40281
#1	3096.9	41568.	5684.0
#2	3119.9	41629.	5691.0
#3	3149.2	42183.	5648.4

Sample Name: 460-111932-C-16-A@4 Acquired: 4/14/2016 19:54:39 Type: Unk
Method: sw04052016(v10) 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	48800.	88.14	.3858	264.9	1.900	5085.
Stddev	226.	1.68	.2756	.3	.090	23.
%RSD	.4631	1.902	71.45	.1203	4.725	.4575
#1	48590.	89.68	.6677	264.7	1.864	5106.
#2	49040.	88.39	.3727	264.7	2.002	5089.
#3	48770.	86.35	.1169	265.2	1.833	5060.

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	-.3111	30.66	89.67	77.46	72570.	2007.
Stddev	.1036	.10	.68	.39	54.	25.
%RSD	33.29	.3145	.7566	.5065	.0742	1.229
#1	-.3528	30.60	90.43	77.42	72620.	1983.
#2	-.3874	30.61	89.47	77.87	72580.	2004.
#3	-.1932	30.77	89.12	77.09	72510.	2033.

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	6929.	917.3	171.0	55.92	239.0	2.184
Stddev	12.	1.2	3.5	.43	1.4	1.039
%RSD	.1787	.1303	2.023	.7720	.5896	47.59
#1	6937.	916.4	174.1	55.47	237.5	3.123
#2	6936.	916.8	171.6	56.33	240.3	2.360
#3	6915.	918.6	167.2	55.94	239.2	1.068

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

Sample Name: 460-111932-C-16-A@4 Acquired: 4/14/2016 19:54:39 Type: Unk
Method: sw04052016(v10) 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	4.931	-.9324	119.3	312.9	4.098	3.100
Stddev	1.832	1.945	1.0	.3	.137	.246
%RSD	37.14	208.6	.8143	.0888	3.349	7.937
#1	3.203	-.9109	119.7	313.0	4.196	3.383
#2	6.851	-2.888	120.0	313.1	4.156	2.976
#3	4.740	1.002	118.2	312.6	3.941	2.941

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	7.555	35.35	1136.	1764.
Stddev	.924	.33	2.	21.
%RSD	12.23	.9283	.1632	1.200
#1	8.461	34.99	1137.	1744.
#2	6.615	35.64	1134.	1762.
#3	7.589	35.41	1138.	1786.

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	3083.4	41452.	5615.6
Stddev	5.8	179.	6.0
%RSD	.18953	.43194	.10638
#1	3076.8	41250.	5608.8
#2	3088.0	41518.	5618.5
#3	3085.3	41590.	5619.7

Sample Name: 460-111932-C-19-A@10 Acquired: 4/14/2016 20:06:54 Type: Unk
Method: sw04052016(v10) 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	13250.	41.05	.8684	411.8	.9550	7055.
Stddev	102.	1.59	.2691	1.0	.0084	23.
%RSD	.7723	3.870	30.99	.2455	.8762	.3283

#1	13310.	40.46	.7121	412.5	.9462	7043.
#2	13140.	42.85	1.179	412.3	.9629	7082.
#3	13310.	39.84	.7140	410.7	.9557	7041.

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	4.017	21.24	37.43	113.4	36210.	1095.
Stddev	.174	.16	.41	.4	27.	9.
%RSD	4.329	.7567	1.106	.3194	.0733	.8351

#1	3.856	21.16	37.48	113.0	36230.	1097.
#2	3.994	21.13	36.99	113.5	36230.	1086.
#3	4.202	21.42	37.81	113.7	36180.	1104.

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	2245.	499.8	170.8	29.40	1122.	2.700
Stddev	12.	1.1	3.4	.41	7.	1.090
%RSD	.5294	.2175	2.019	1.388	.6316	40.37

#1	2235.	499.1	168.0	29.25	1114.	1.507
#2	2258.	501.1	169.8	29.86	1124.	2.952
#3	2242.	499.3	174.7	29.09	1128.	3.643

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

Sample Name: 460-111932-C-19-A@10 Acquired: 4/14/2016 20:06:54 Type: Unk
Method: sw04052016(v10) 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	4.022	-.5557	46.90	818.8	6.244	1.229
Stddev	1.233	.5825	.16	5.6	.220	.205
%RSD	30.66	104.8	.3370	.6848	3.518	16.71
#1	2.918	-.8263	47.05	812.3	6.196	1.147
#2	3.794	-.9536	46.73	822.1	6.484	1.078
#3	5.353	.1128	46.91	821.9	6.052	1.463

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	20.64	75.08	333.8	717.4
Stddev	.42	.83	.2	19.9
%RSD	2.047	1.100	.0633	2.767
#1	20.34	74.94	333.8	706.1
#2	20.47	74.34	333.6	705.7
#3	21.13	75.97	334.0	740.3

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	3031.3	40475.	5402.0
Stddev	9.4	138.	39.7
%RSD	.31049	.34119	.73459
#1	3041.8	40564.	5439.4
#2	3023.5	40316.	5406.2
#3	3028.7	40546.	5360.4

Sample Name: CCV Acquired: 4/14/2016 20:10:58 Type: QC
Method: sw04052016(v10) 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.	2491.	1241.	10280.	981.0	128400.
Stddev	490.	11.	4.	7.	2.6	1057.
%RSD	.4041	.4355	.3401	.0667	.2683	.8235

#1	120900.	2500.	1237.	10280.	979.3	127400.
#2	121800.	2492.	1239.	10280.	984.0	128200.
#3	121200.	2479.	1245.	10270.	979.6	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	1267.	2535.	5163.	12520.	99930.	49260.
Stddev	2.	2.	34.	20.	547.	147.
%RSD	.1225	.0767	.6585	.1575	.5470	.2985

#1	1265.	2533.	5131.	12520.	99560.	49100.
#2	1267.	2536.	5161.	12540.	99660.	49280.
#3	1268.	2536.	5199.	12500.	100600.	49390.

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	123900.	5165.	121200.	2574.	7481.	983.4
Stddev	655.	31.	812.	2.	7.	2.2
%RSD	.5287	.6094	.6698	.0834	.0895	.2196

#1	123400.	5135.	120900.	2573.	7481.	985.9
#2	123800.	5162.	122200.	2577.	7475.	982.1
#3	124600.	5197.	120700.	2573.	7488.	982.1

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

Sample Name: CCV Acquired: 4/14/2016 20:10:58 Type: QC
Method: sw04052016(v10) 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	2486.	2558.	2535.	2530.	1012.	2541.
Stddev	14.	5.	14.	12.	3.	2.
%RSD	.5471	.2029	.5486	.4814	.2968	.0802

#1	2501.	2557.	2522.	2517.	1014.	2542.
#2	2485.	2553.	2533.	2529.	1014.	2542.
#3	2473.	2563.	2550.	2542.	1009.	2539.

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.	5032.	10020.	9593.
Stddev	2.	8.	10.	62.
%RSD	.2245	.1633	.0977	.6491

#1	1026.	5027.	10020.	9665.
#2	1025.	5041.	10010.	9559.
#3	1022.	5027.	10020.	9556.

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	2790.7	37197.	5110.0
Stddev	4.6	294.	88.4
%RSD	.16426	.79012	1.7305

#1	2793.7	37433.	5196.9
#2	2793.0	37290.	5113.1
#3	2785.4	36868.	5020.1

Sample Name: CCVL Acquired: 4/14/2016 20:19:20 Type: QC
Method: sw04052016(v10) 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	F 13.61	F 2.176	F 1.014	F 14.24	F .0731	F 367.7
Stddev	12.26	.485	.735	12.24	.2014	334.9
%RSD	90.07	22.28	72.46	85.97	275.7	91.07

#1	-.4149	2.327	.1856	.1632	-.1251	-18.10
#2	18.97	2.568	1.270	20.17	.0668	538.5
#3	22.29	1.634	1.587	22.39	.2775	582.9

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	F .3602	F 3.757	F .7285	F -.9919	F 6.135	F 215.8
Stddev	.2327	3.052	.7779	1.654	12.33	287.7
%RSD	64.61	81.25	106.8	166.7	201.0	133.3

#1	.0918	.2502	-.1282	-2.902	-8.101	-24.22
#2	.5051	5.204	1.390	-.0185	13.07	137.0
#3	.4836	5.817	.9233	-.0558	13.43	534.7

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	F 342.3	F 1.127	F 208.2	F 2.699	F -2.960	F .3070
Stddev	298.7	1.092	295.0	2.529	.844	1.126
%RSD	87.27	96.91	141.7	93.70	28.50	366.7

#1	-1.855	-.1327	-33.66	-.1416	-3.822	-.7443
#2	494.0	1.810	121.3	3.532	-2.922	.1704
#3	534.7	1.704	536.9	4.706	-2.136	1.495

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: 4/14/2016 20:19:20 Type: QC
Method: sw04052016(v10) 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	F -3.251	F 6.521	F 3.851	F 2.331	F -.2619	F .8509
Stddev	1.542	.782	3.298	1.822	3.176	1.061
%RSD	47.43	11.99	85.63	78.18	1213.	124.7

#1	-4.397	5.956	.0564	.2342	-3.907	-.3680
#2	-1.498	7.413	5.475	3.226	1.212	1.351
#3	-3.859	6.194	6.023	3.532	1.909	1.570

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	F 2.825	F 1.014	F 1.448	F -17.56
Stddev	3.424	1.254	1.883	24.04
%RSD	121.2	123.7	130.1	136.9

#1	-1.118	-.2536	-.6877	-36.45
#2	4.550	1.042	2.869	9.504
#3	5.043	2.254	2.162	-25.73

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	6883.2	80322.	8226.4
Stddev	1099.3	5197.	1479.1
%RSD	15.971	6.4705	17.980

#1	8152.6	86268.	6783.8
#2	6253.0	78053.	9739.4
#3	6244.0	76644.	8156.1

Sample Name: CCV Acquired: 4/14/2016 20:25:39 Type: QC
Method: sw04052016(v10) 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	120100.	2493.	1204.	10170.	982.4	125100.
Stddev	374.	6.	1.	22.	4.3	41.
%RSD	.3115	.2249	.0949	.2192	.4339	.0328

#1	120200.	2487.	1203.	10150.	985.9	125000.
#2	120500.	2492.	1203.	10200.	983.6	125100.
#3	119700.	2498.	1205.	10170.	977.7	125000.

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.	2496.	5099.	12380.	99060.	48380.
Stddev	2.	5.	6.	17.	243.	211.
%RSD	.1846	.2146	.1106	.1385	.2455	.4367

#1	1255.	2490.	5105.	12400.	99270.	48240.
#2	1260.	2498.	5096.	12370.	99110.	48630.
#3	1259.	2501.	5095.	12390.	98790.	48290.

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	121200.	5065.	122000.	2546.	7409.	983.0
Stddev	124.	4.	632.	7.	12.	2.4
%RSD	.1019	.0846	.5179	.2595	.1685	.2404

#1	121100.	5070.	122600.	2539.	7397.	980.5
#2	121400.	5062.	122000.	2552.	7422.	985.2
#3	121200.	5064.	121300.	2547.	7408.	983.4

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

Sample Name: CCV Acquired: 4/14/2016 20:25:39 Type: QC
Method: sw04052016(v10) 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	2493.	2500.	2493.	2494.	1007.	2508.
Stddev	5.	10.	1.	5.	3.	7.
%RSD	.2004	.4133	.0374	.1880	.3103	.2840

#1	2488.	2490.	2494.	2491.	1003.	2499.
#2	2495.	2501.	2492.	2499.	1009.	2512.
#3	2497.	2510.	2493.	2490.	1009.	2512.

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.	5015.	9905.	9501.
Stddev	3.	10.	81.	30.
%RSD	.3017	.1970	.8138	.3122

#1	1010.	5022.	9825.	9467.
#2	1015.	5019.	9906.	9518.
#3	1009.	5003.	9986.	9519.

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	2855.2	38132.	5286.6
Stddev	7.8	35.	13.5
%RSD	.27409	.09133	.25587

#1	2864.1	38105.	5295.7
#2	2849.4	38172.	5271.1
#3	2852.0	38120.	5293.0

Sample Name: CCB Acquired: 4/14/2016 20:29:20 Type: QC
Method: sw04052016(v10) 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	-1.768	-1.114	-.2134	.0339	.0185	-9.027
Stddev	9.509	2.467	.3290	.1555	.0666	4.174
%RSD	537.9	221.5	154.2	458.9	361.1	46.24
#1	-2.844	-3.328	-.4393	.1835	.0832	-13.85
#2	8.234	-1.559	.1640	.0452	-.0499	-6.651
#3	-10.69	1.546	-.3649	-.1270	.0220	-6.583

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	-.0034	-.0408	.3962	-.2287	1.183	10.24
Stddev	.0660	.3395	.6860	.1823	2.770	17.15
%RSD	1946.	832.2	173.2	79.71	234.2	167.5
#1	-.0780	-.2631	.6356	-.4186	-1.740	-8.054
#2	.0474	-.2093	-.3774	-.0552	1.521	25.95
#3	.0204	.3500	.9303	-.2121	3.768	12.81

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	-2.376	-.0294	-.5902	.0603	-2.048	.3546
Stddev	4.748	.1120	9.129	.3799	1.417	.3204
%RSD	199.8	380.5	1547.	629.9	69.17	90.36
#1	-7.313	.0811	9.377	.4988	-3.346	.0566
#2	-1.972	-.0265	-2.603	-.1705	-.5371	.6935
#3	2.157	-.1429	-8.545	-.1473	-2.261	.3137

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

Sample Name: CCB Acquired: 4/14/2016 20:29:20 Type: QC
Method: sw04052016(v10) 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	-.3256	-.7057	-.0982	-.0323	-.2723	.4350
Stddev	2.263	.4174	.1613	.0702	.8835	.5694
%RSD	694.9	59.15	164.2	217.7	324.4	130.9
#1	-.7902	-.3842	.0551	-.0935	-.8861	1.066
#2	-2.320	-1.177	-.2666	-.0478	.7402	-.0405
#3	2.133	-.5555	-.0832	.0444	-.6711	.2795

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	.1221	.0111	.0199	-6.203
Stddev	1.276	.0612	.0547	8.187
%RSD	1045.	552.8	274.3	132.0
#1	.5555	-.0545	.0393	3.205
#2	-1.315	.0212	.0623	-11.71
#3	1.125	.0665	-.0418	-10.10

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	3036.4	40527.	5389.9
Stddev	4.6	163.	62.6
%RSD	.15251	.40231	1.1610
#1	3041.4	40597.	5444.2
#2	3032.3	40644.	5403.9
#3	3035.6	40341.	5321.5

Sample Name: 460-111932-C-20-A@4 Acquired: 4/14/2016 20:37:25 Type: Unk
 Method: sw04052016(v10) 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	34190.	202.5	1.070	337.6	2.038	5930.
Stddev	119.	1.5	.171	.2	.078	29.
%RSD	.3477	.7244	15.94	.0735	3.846	.4890
#1	34320.	203.6	1.192	337.6	2.126	5910.
#2	34100.	200.9	1.144	337.4	2.012	5917.
#3	34140.	203.2	.8752	337.9	1.976	5963.

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	1.132	31.26	75.39	90.70	62680.	1760.
Stddev	.027	.09	.79	.61	53.	17.
%RSD	2.367	.2990	1.048	.6734	.0849	.9827
#1	1.161	31.22	74.96	90.66	62640.	1751.
#2	1.127	31.20	76.31	91.32	62740.	1749.
#3	1.108	31.37	74.91	90.10	62660.	1780.

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	4903.	1805.	274.8	41.92	626.8	3.055
Stddev	3.	8.	4.9	.74	1.8	.826
%RSD	.0643	.4344	1.777	1.769	.2823	27.04
#1	4903.	1802.	277.2	41.39	626.4	3.807
#2	4906.	1800.	278.0	41.60	625.3	2.171
#3	4900.	1814.	269.2	42.76	628.8	3.189

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

Sample Name: 460-111932-C-20-A@4 Acquired: 4/14/2016 20:37:25 Type: Unk
Method: sw04052016(v10) 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	5.922	-1.130	119.4	391.1	5.648	2.948
Stddev	1.188	.771	.8	2.2	.092	.256
%RSD	20.06	68.23	.6733	.5650	1.626	8.687
#1	5.368	-.2399	118.5	389.8	5.626	2.835
#2	7.285	-1.561	120.1	389.8	5.749	3.241
#3	5.112	-1.590	119.5	393.6	5.569	2.768

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	14.44	46.61	623.5	1299.
Stddev	.14	.13	1.3	7.
%RSD	.9420	.2872	.2101	.5516
#1	14.44	46.75	624.2	1293.
#2	14.31	46.48	624.3	1297.
#3	14.58	46.60	622.0	1307.

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	3157.3	42269.	5687.1
Stddev	7.9	237.	62.6
%RSD	.25148	.56040	1.1011
#1	3158.3	42156.	5685.7
#2	3164.8	42541.	5750.5
#3	3149.0	42110.	5625.3

Sample Name: LCSSRM 460-362460/2- Acquired: 4/14/2016 20:41:19 Type: Unk
 Method: sw04052016(v10) 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	33520.	674.5	142.3	1039.	466.1	27520.
Stddev	67.	2.8	.9	3.	1.1	155.
%RSD	.2013	.4093	.6279	.3040	.2361	.5630
#1	33590.	677.0	141.3	1042.	467.3	27380.
#2	33480.	675.1	142.5	1036.	465.5	27490.
#3	33470.	671.5	143.0	1040.	465.3	27680.

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	443.0	828.7	727.7	836.2	67590.	10530.
Stddev	.2	6.3	1.9	1.1	164.	25.
%RSD	.0374	.7652	.2565	.1306	.2427	.2407
#1	443.1	822.2	727.5	835.1	67760.	10500.
#2	442.9	828.9	725.9	836.2	67430.	10550.
#3	442.9	834.9	729.7	837.3	67590.	10540.

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	11570.	1539.	3941.	716.2	729.9	397.6
Stddev	89.	7.	38.	2.9	1.6	1.8
%RSD	.7658	.4342	.9604	.4057	.2219	.4405
#1	11500.	1534.	3985.	719.3	731.0	399.6
#2	11550.	1536.	3919.	713.5	728.0	396.9
#3	11670.	1547.	3920.	715.7	730.6	396.4

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

Sample Name: LCSSRM 460-362460/2- Acquired: 4/14/2016 20:41:19 Type: Unk
Method: sw04052016(v10) 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	862.9	760.9	549.0	969.9	634.6	600.9
Stddev	.9	4.2	1.6	2.6	2.6	2.0
%RSD	.1099	.5571	.2968	.2685	.4056	.3353
#1	863.9	764.5	547.1	971.6	635.8	602.1
#2	862.0	756.2	549.8	966.9	631.6	598.6
#3	862.9	762.1	550.0	971.1	636.3	602.1

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	742.0	520.9	1352.	1543.
Stddev	1.2	1.3	1.	36.
%RSD	.1590	.2417	.1033	2.359
#1	742.8	522.3	1351.	1531.
#2	740.7	519.9	1350.	1515.
#3	742.6	520.4	1353.	1584.

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	3144.7	42196.	5650.4
Stddev	11.7	234.	43.5
%RSD	.37179	.55366	.76998
#1	3133.0	41941.	5609.4
#2	3156.4	42400.	5645.8
#3	3144.8	42247.	5696.0

Sample Name: CCVL Acquired: 4/14/2016 20:33:24 Type: QC
Method: sw04052016(v10) 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	209.8	14.47	9.790	208.9	1.983	5029.
Stddev	4.7	.69	.277	.4	.073	31.
%RSD	2.244	4.782	2.833	.2026	3.689	.6072

#1	206.1	14.76	9.480	209.4	1.993	5021.
#2	208.3	13.68	10.01	208.6	2.051	5063.
#3	215.1	14.97	9.874	208.9	1.906	5004.

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	4.133	52.53	10.81	23.99	151.1	4696.
Stddev	.048	.28	.56	.10	13.3	41.
%RSD	1.167	.5261	5.186	.4227	8.825	.8650

#1	4.132	52.82	10.77	24.06	144.8	4651.
#2	4.181	52.27	11.39	24.04	142.1	4731.
#3	4.084	52.51	10.27	23.87	166.4	4705.

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	4799.	15.90	4763.	42.81	11.05	17.54
Stddev	25.	.14	31.	.32	2.12	.54
%RSD	.5200	.8870	.6517	.7420	19.20	3.089

#1	4800.	15.99	4736.	42.99	9.224	17.01
#2	4824.	15.97	4757.	43.01	13.38	18.09
#3	4774.	15.74	4797.	42.45	10.55	17.52

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

Sample Name: CCVL Acquired: 4/14/2016 20:33:24 Type: QC
Method: sw04052016(v10) 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	19.24	22.16	50.84	31.60	48.96	19.59
Stddev	2.50	.35	.27	.05	.84	.14
%RSD	12.98	1.572	.5247	.1523	1.712	.6954
#1	22.00	21.79	50.72	31.59	49.91	19.52
#2	18.61	22.22	51.15	31.65	48.31	19.49
#3	17.12	22.48	50.66	31.56	48.67	19.74

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	50.96	20.44	20.04	F 8.242
Stddev	.91	.10	.07	19.11
%RSD	1.781	.4801	.3701	231.9
#1	50.74	20.33	20.05	5.687
#2	51.96	20.51	20.10	-9.467
#3	50.19	20.49	19.96	28.51

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	3076.5	40826.	5366.9
Stddev	6.0	297.	101.6
%RSD	.19382	.72830	1.8934
#1	3083.3	41152.	5483.6
#2	3073.7	40756.	5319.6
#3	3072.4	40569.	5297.6

Sample Name: LCS 460-362466/2-A Acquired: 4/14/2016 20:49:05 Type: QC
Method: sw04052016(v10) 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	1817.	1801.	44.85	1936.	46.43	18700.
Stddev	10.	6.	.59	3.	.07	28.
%RSD	.5448	.3075	1.325	.1440	.1531	.1486

#1	1809.	1807.	44.48	1939.	46.51	18670.
#2	1828.	1795.	44.55	1933.	46.42	18730.
#3	1815.	1800.	45.54	1935.	46.37	18700.

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	48.35	487.8	198.6	230.3	963.9	16710.
Stddev	.15	1.4	2.0	1.4	5.6	102.
%RSD	.3162	.2938	.9987	.6095	.5844	.6075

#1	48.52	488.7	196.3	228.7	969.8	16700.
#2	48.26	486.1	199.8	231.3	958.5	16810.
#3	48.26	488.5	199.7	231.0	963.3	16610.

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	17860.	487.4	17590.	503.3	485.3	445.0
Stddev	82.	.9	101.	1.4	2.7	2.6
%RSD	.4565	.1936	.5720	.2800	.5654	.5758

#1	17810.	486.4	17650.	505.0	486.4	446.1
#2	17810.	487.8	17650.	502.6	482.2	442.1
#3	17950.	488.2	17480.	502.5	487.3	446.8

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

Sample Name: LCS 460-362466/2-A Acquired: 4/14/2016 20:49:05 Type: QC
Method: sw04052016(v10) 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	1854.	2064.	482.8	492.0	479.1	478.9
Stddev	11.	7.	3.2	.5	1.2	1.3
%RSD	.5966	.3628	.6661	.0921	.2400	.2710

#1	1860.	2061.	480.2	491.7	478.6	478.0
#2	1841.	2059.	481.8	492.5	478.2	478.4
#3	1860.	2073.	486.4	491.9	480.4	480.4

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	490.6	465.1	473.2	21.46
Stddev	.7	3.0	.7	16.44
%RSD	.1526	.6371	.1582	76.61

#1	489.8	465.4	472.8	18.03
#2	491.3	467.9	472.7	7.007
#3	490.8	462.0	474.0	39.35

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	3007.4	40165.	5397.4
Stddev	13.7	36.	20.3
%RSD	.45482	.08852	.37588

#1	2992.9	40130.	5377.8
#2	3009.3	40165.	5418.3
#3	3020.1	40201.	5396.0

Sample Name: 460-112068-K-6-D MS Acquired: 4/14/2016 21:04:56 Type: Unk
Method: sw04052016(v10) 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	1854.	1814.	45.21	1939.	47.56	18800.
Stddev	12.	6.	.56	4.	.07	49.
%RSD	.6456	.3431	1.230	.1887	.1437	.2607
#1	1868.	1808.	45.51	1942.	47.52	18850.
#2	1846.	1813.	44.57	1941.	47.64	18800.
#3	1849.	1820.	45.55	1935.	47.52	18750.

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	48.67	489.6	200.0	231.8	977.3	16990.
Stddev	.02	.5	.6	.3	10.1	26.
%RSD	.0364	.1014	.2844	.1482	1.037	.1535
#1	48.66	489.8	199.4	232.1	987.7	16980.
#2	48.69	489.0	200.5	231.9	976.7	17020.
#3	48.66	489.9	200.2	231.5	967.4	16970.

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	18060.	491.0	18400.	503.7	488.7	447.3
Stddev	24.	1.4	72.	.2	1.9	.8
%RSD	.1331	.2796	.3932	.0470	.3830	.1689
#1	18090.	492.5	18320.	503.6	488.7	447.1
#2	18060.	490.8	18440.	503.9	490.5	446.7
#3	18040.	489.8	18450.	503.5	486.8	448.2

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

Sample Name: 460-112068-K-6-D MS Acquired: 4/14/2016 21:04:56 Type: Unk
Method: sw04052016(v10) 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	1860.	2068.	485.5	496.8	482.9	479.1
Stddev	10.	7.	2.6	1.9	1.7	1.1
%RSD	.5182	.3314	.5451	.3747	.3593	.2241
#1	1860.	2060.	488.1	496.4	484.3	478.2
#2	1850.	2068.	485.8	495.2	481.0	478.8
#3	1869.	2074.	482.8	498.8	483.3	480.3

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	496.1	474.5	480.7	216.5
Stddev	1.7	1.1	2.0	12.6
%RSD	.3429	.2408	.4186	5.824
#1	495.1	475.6	482.9	204.0
#2	495.1	474.6	480.0	229.2
#3	498.0	473.4	479.1	216.3

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	3061.5	40732.	5455.6
Stddev	7.3	90.	37.8
%RSD	.23792	.21998	.69245
#1	3053.8	40661.	5464.7
#2	3068.3	40702.	5488.1
#3	3062.4	40832.	5414.1

Sample Name: 460-111943-A-23-A Acquired: 4/14/2016 21:12:17 Type: Unk

Method: sw04052016(v10) 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	.9181	.4183	-.1339	.0807	.0396	-6.900
Stddev	12.35	1.055	.1093	.0852	.0403	1.518
%RSD	1345.	252.2	81.66	105.6	101.6	21.99

#1	6.426	1.268	-.2310	.0131	-.0055	-8.559
#2	-13.23	-.7623	-.0154	.1765	.0718	-5.582
#3	9.558	.7491	-.1553	.0525	.0526	-6.560

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	.0380	.0970	.2447	-.2994	-1.494	-7.154
Stddev	.1006	.0706	.2782	.2156	3.937	8.255
%RSD	265.0	72.77	113.7	72.01	263.5	115.4

#1	-.0379	.1768	.4901	-.1882	1.281	-13.26
#2	.1521	.0427	.3014	-.5480	-6.000	-10.44
#3	-.0003	.0714	-.0575	-.1622	.2368	2.238

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	-2.921	.0271	-4.413	.3374	-1.168	.6686
Stddev	1.413	.0573	1.362	.5448	.700	.1311
%RSD	48.38	211.7	30.86	161.4	59.95	19.61

#1	-1.362	.0255	-2.900	.5384	-1.235	.8128
#2	-4.118	-.0294	-5.541	.7531	-.4371	.6360
#3	-3.282	.0851	-4.797	-.2793	-1.833	.5568

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

Sample Name: 460-111943-A-23-A Acquired: 4/14/2016 21:12:17 Type: Unk
Method: sw04052016(v10) 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	3.309	-.7940	-.1451	.3700	8.905	-.7593
Stddev	3.069	.5156	.4332	.0168	.287	.3622
%RSD	92.75	64.93	298.5	4.553	3.222	47.70
#1	2.508	-.4768	-.3163	.3507	9.165	-.9094
#2	.7201	-.5163	-.4666	.3780	8.597	-.3462
#3	6.699	-1.389	.3475	.3814	8.952	-1.022

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	.1809	-.0280	-.3457	80.36
Stddev	.4094	.0332	.0432	17.77
%RSD	226.4	118.8	12.49	22.12
#1	-.0848	-.0091	-.3291	93.41
#2	-.0250	-.0085	-.3132	87.55
#3	.6523	-.0664	-.3947	60.11

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	3088.2	41210.	5326.8
Stddev	13.6	251.	68.2
%RSD	.44090	.60894	1.2805
#1	3080.5	41010.	5283.8
#2	3103.9	41127.	5291.2
#3	3080.1	41491.	5405.4

Sample Name: CCB Acquired: 4/14/2016 21:20:04 Type: QC
Method: sw04052016(v10) 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	-1.569	-.5162	-.3553	.0498	-.0301	.7103
Stddev	7.178	.5429	.3570	.0661	.0859	6.005
%RSD	457.6	105.2	100.5	132.8	285.8	845.3
#1	-.7298	-.3634	-.0591	.1243	.0493	7.638
#2	-9.129	-1.119	-.7517	-.0018	-.0182	-2.511
#3	5.153	-.0660	-.2550	.0269	-.1212	-2.996

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	.0621	-.1131	.3737	-.2848	6.082	23.08
Stddev	.1081	.1418	.0860	.2913	3.222	28.03
%RSD	174.1	125.4	23.01	102.3	52.97	121.5
#1	.1348	.0303	.4500	.0227	8.262	27.34
#2	-.0621	-.2532	.3906	-.5567	7.604	-6.838
#3	.1135	-.1165	.2805	-.3203	2.381	48.74

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	1.079	.0531	1.086	.1735	-1.812	-.0073
Stddev	1.330	.0988	4.958	.2296	1.410	.5721
%RSD	123.4	186.0	456.6	132.3	77.80	7891.
#1	-.3528	.1324	1.051	-.0802	-.2355	-.1077
#2	1.311	.0844	-3.855	.3668	-2.249	-.5225
#3	2.278	-.0575	6.061	.2341	-2.952	.6085

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

Sample Name: CCB Acquired: 4/14/2016 21:20:04 Type: QC
Method: sw04052016(v10) 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	.9724	.9621	.2912	.0017	-.1341	.3175
Stddev	2.379	.6223	.2705	.0432	.1315	.2954
%RSD	244.7	64.69	92.92	2575.	98.10	93.03
#1	1.781	1.680	.0008	.0488	-.0866	.6563
#2	-1.706	.5802	.5362	-.0078	-.2827	.1134
#3	2.842	.6258	.3365	-.0360	-.0329	.1829

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	.0250	.0524	.1647	-11.08
Stddev	.5431	.1165	.3163	9.74
%RSD	2169.	222.2	192.1	87.95
#1	.1649	.1864	.5256	-21.89
#2	-.5744	-.0044	.0319	-8.379
#3	.4846	-.0247	-.0636	-2.968

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	3033.6	40626.	5322.1
Stddev	4.8	216.	18.2
%RSD	.15931	.53138	.34257
#1	3038.3	40632.	5342.9
#2	3028.7	40838.	5314.8
#3	3033.7	40407.	5308.7

Sample Name: 460-112044-A-23-B Acquired: 4/14/2016 21:28:05 Type: Unk
Method: sw04052016(v10) 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	9.880	-1.427	.2207	-.0482	.0767	-2.156
Stddev	2.694	2.713	.3276	.0805	.0224	4.029
%RSD	27.27	190.1	148.5	166.9	29.15	186.9
#1	9.839	-4.553	.4870	-.1354	.0988	-1.656
#2	12.59	-.0268	-.1452	.0232	.0541	1.600
#3	7.206	.3002	.3202	-.0324	.0773	-6.411

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	-.0135	-.0089	.1462	-.2541	6.388	-7.471
Stddev	.0771	.0255	.6395	.0909	5.566	6.873
%RSD	571.0	286.6	437.3	35.78	87.14	92.00
#1	-.0930	-.0157	.7589	-.2337	7.476	-3.724
#2	-.0085	.0193	-.5171	-.3535	.3580	-15.40
#3	.0610	-.0303	.1970	-.1751	11.33	-3.286

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	-5.501	.0128	.8547	.2526	-.2812	-1.196
Stddev	3.285	.0683	6.895	.2135	1.806	.772
%RSD	59.72	532.5	806.6	84.52	642.1	64.56
#1	-2.470	-.0426	-6.299	.4117	1.436	-1.238
#2	-5.042	-.0081	7.457	.3360	-2.164	-1.947
#3	-8.992	.0891	1.406	.0100	-1.1158	-.4039

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

Sample Name: 460-112044-A-23-B Acquired: 4/14/2016 21:28:05 Type: Unk
Method: sw04052016(v10) 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	.8447	-.8654	-.1245	.4446	8.367	-.6087
Stddev	2.577	.2921	.1500	.2079	.452	.1317
%RSD	305.1	33.75	120.5	46.76	5.399	21.63
#1	2.470	-.8492	-.0108	.2652	7.916	-.4879
#2	-2.127	-.5817	-.0681	.3960	8.365	-.5893
#3	2.192	-1.165	-.2944	.6724	8.819	-.7491

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	.4931	-.0602	-.3617	73.59
Stddev	.7558	.1100	.2338	12.16
%RSD	153.3	182.7	64.65	16.52
#1	.7736	-.1705	-.5318	59.67
#2	-.3628	-.0595	-.0950	82.09
#3	1.068	.0494	-.4582	79.03

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	3004.8	39841.	5207.9
Stddev	10.4	131.	36.2
%RSD	.34611	.32799	.69423
#1	3003.0	39713.	5168.5
#2	2995.4	39836.	5215.7
#3	3016.0	39974.	5239.5

Sample Name: MB 460-362466/1-A Acquired: 4/14/2016 20:45:02 Type: QC

Method: sw04052016(v10) 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	-8.235	.3320	.0502	-.1313	.0384	-9.470
Stddev	7.507	1.187	.3023	.0159	.0243	2.178
%RSD	91.15	357.6	602.6	12.12	63.28	23.00

#1	.3402	-.9932	.1859	-.1442	.0484	-10.93
#2	-11.43	1.299	-.2962	-.1361	.0107	-6.967
#3	-13.62	.6901	.2608	-.1135	.0560	-10.51

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	-.0015	.0326	.2718	-.4175	6.856	-17.69
Stddev	.0892	.3437	.1627	.0600	5.888	27.32
%RSD	6043.	1053.	59.87	14.36	85.88	154.5

#1	-.0723	.1412	.1132	-.4849	3.095	13.57
#2	.0988	-.3523	.4384	-.3701	13.64	-29.61
#3	-.0309	.3089	.2638	-.3975	3.832	-37.01

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	-7.333	.0022	-14.21	-.3029	-.2166	.5222
Stddev	3.594	.0272	8.84	.2768	.4634	1.394
%RSD	49.01	1236.	62.22	91.40	214.0	266.8

#1	-5.636	.0326	-9.645	-.2229	-.1010	-.1236
#2	-4.902	-.0064	-24.40	-.0749	.1781	2.122
#3	-11.46	-.0197	-8.586	-.6109	-.7268	-.4313

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

Sample Name: MB 460-362466/1-A Acquired: 4/14/2016 20:45:02 Type: QC
Method: sw04052016(v10) 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	-1.204	.0763	.0460	.6603	-.7032	-.5860
Stddev	1.113	.7825	.1508	.1060	.3199	.1003
%RSD	92.43	1025.	327.9	16.05	45.49	17.12
#1	-.4843	.8782	-.0099	.7764	-.3491	-.5456
#2	-.6423	-.6851	.2167	.6356	-.9713	-.5121
#3	-2.487	.0359	-.0688	.5688	-.7892	-.7001

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	-.0460	-.4835	4.084
Stddev	.4408	.0886	.1273	11.40
%RSD	164.7	192.7	26.32	279.0
#1	.2925	-.1378	-.5406	-8.878
#2	.6955	-.0389	-.5722	12.52
#3	-.1850	.0389	-.3377	8.606

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	3088.9	41260.	5490.2
Stddev	5.6	196.	80.6
%RSD	.18158	.47510	1.4686
#1	3093.2	41280.	5486.7
#2	3082.6	41054.	5411.3
#3	3091.0	41445.	5572.5

Sample Name: 460-111978-E-4-A Acquired: 4/14/2016 21:40:08 Type: Unk
Method: sw04052016(v10) 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	240.3	-.6999	-.2712	66.54	.6248	8545.
Stddev	4.0	.9585	.3461	.21	.0786	42.
%RSD	1.661	136.9	127.6	.3135	12.58	.4963
#1	243.5	-1.697	.0653	66.62	.7106	8592.
#2	235.8	.2143	-.6261	66.70	.6074	8509.
#3	241.6	-.6168	-.2527	66.30	.5563	8533.

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	.0557	12.51	1.053	2.848	8502.	2051.
Stddev	.0830	.09	.681	.284	58.	41.
%RSD	149.1	.7389	64.64	9.981	.6847	2.008
#1	.0545	12.59	1.076	3.034	8450.	2017.
#2	-.0267	12.41	1.721	2.990	8491.	2096.
#3	.1392	12.53	.3608	2.521	8565.	2039.

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	2541.	186.7	56300.	6.338	1.482	.6123
Stddev	12.	.5	575.	.158	1.557	1.262
%RSD	.4668	.2859	1.021	2.499	105.0	206.1
#1	2531.	186.1	55970.	6.400	-.1842	-.7437
#2	2538.	186.9	56960.	6.457	2.899	1.752
#3	2554.	187.1	55960.	6.158	1.731	.8282

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

Sample Name: 460-111978-E-4-A Acquired: 4/14/2016 21:40:08 Type: Unk
Method: sw04052016(v10) 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	2.962	-1.017	-.4529	34.77	43.73	-.6506
Stddev	1.796	1.640	.3129	.49	.48	.1712
%RSD	60.64	161.2	69.08	1.421	1.091	26.31
#1	1.070	-2.910	-.1499	34.20	43.84	-.6345
#2	4.643	-.1272	-.4342	35.07	44.13	-.8293
#3	3.173	-.0148	-.7748	35.05	43.20	-.4880

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	-.0721	64.23	1.133	2367.
Stddev	.8688	.55	.027	20.
%RSD	1206.	.8497	2.372	.8525
#1	.8353	63.73	1.102	2377.
#2	-.8963	64.82	1.145	2344.
#3	-.1552	64.15	1.152	2380.

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	3026.6	40378.	5463.2
Stddev	5.2	106.	50.2
%RSD	.17253	.26361	.91847
#1	3032.3	40382.	5494.5
#2	3025.6	40482.	5405.3
#3	3022.0	40269.	5489.7

Sample Name: 460-112068-K-6-C DU Acquired: 4/14/2016 20:52:46 Type: Unk
Method: sw04052016(v10) 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	-2.988	-2.082	-.2242	2.900	.0230	55.44
Stddev	12.93	.627	.5332	.119	.0599	3.36
%RSD	432.8	30.11	237.8	4.089	260.8	6.065
#1	-16.84	-1.911	-.3281	2.770	.0477	51.65
#2	-.9050	-2.777	.3532	3.002	.0666	58.07
#3	8.777	-1.559	-.6978	2.929	-.0454	56.61

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	-.0427	.1515	.0594	-.4134	2.754	-7.867
Stddev	.0451	.1074	.2061	.0935	5.127	8.559
%RSD	105.6	70.89	347.2	22.62	186.2	108.8
#1	-.0799	.2157	-.1766	-.4310	7.780	-15.60
#2	-.0555	.0275	.1504	-.4968	2.950	-9.324
#3	.0074	.2113	.2044	-.3123	-2.468	1.327

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	-1.527	.0569	222.8	.5027	-1.124	.7511
Stddev	2.261	.0238	5.8	.2265	.821	1.050
%RSD	148.1	41.75	2.593	45.06	73.05	139.8
#1	.0016	.0405	220.1	.6273	-.1793	1.545
#2	-.4582	.0842	218.9	.2412	-1.667	-4.397
#3	-4.125	.0461	229.4	.6395	-1.526	1.148

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

Sample Name: 460-112068-K-6-C DU Acquired: 4/14/2016 20:52:46 Type: Unk
Method: sw04052016(v10) 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	3.412	-.7085	.0155	.8317	9.937	-.7027
Stddev	3.980	1.278	.5149	.1068	.387	.0362
%RSD	116.7	180.3	3323.	12.84	3.890	5.153
#1	-.0400	-.3829	.0692	.9514	9.490	-.7279
#2	7.765	.3749	-.5242	.7460	10.17	-.6612
#3	2.509	-2.117	.5014	.7977	10.15	-.7190

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	3.537	.1088	-.3885	174.8
Stddev	.817	.0792	.0281	10.0
%RSD	23.10	72.78	7.219	5.706
#1	2.889	.1855	-.3562	166.3
#2	3.267	.0274	-.4065	185.8
#3	4.455	.1134	-.4029	172.5

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	3104.0	41417.	5451.8
Stddev	11.8	386.	30.9
%RSD	.37962	.93192	.56755
#1	3090.6	41012.	5483.2
#2	3109.0	41457.	5421.3
#3	3112.6	41781.	5451.0

Sample Name: 460-111939-A-23-B Acquired: 4/14/2016 21:59:59 Type: Unk
Method: sw04052016(v10) 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	-7.004	-.3932	-.1269	-.0969	.0540	5.056
Stddev	5.139	1.325	.4343	.0961	.0691	2.844
%RSD	73.38	337.0	342.3	99.14	127.8	56.25
#1	-1.558	-1.892	.2522	-.1468	.0296	1.813
#2	-11.77	.0890	-.0321	.0139	.1320	7.125
#3	-7.683	.6234	-.6007	-.1579	.0005	6.229

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	.0277	-.1884	.3609	-.1996	10.56	2.644
Stddev	.0465	.1291	.2929	.0182	5.42	25.36
%RSD	167.5	68.53	81.16	9.117	51.34	959.2
#1	.0784	-.3290	.0825	-.1819	8.350	13.49
#2	.0176	-.1608	.6664	-.1987	16.74	-26.34
#3	-.0128	-.0753	.3338	-.2183	6.593	20.78

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	-4.526	.3038	10.49	.1092	-1.294	.4121
Stddev	1.699	.0871	3.29	.1656	1.127	1.707
%RSD	37.53	28.68	31.38	151.6	87.11	414.3
#1	-5.399	.3249	13.47	.2615	-.6542	.8294
#2	-5.611	.3784	11.04	.1330	-.6318	1.872
#3	-2.569	.2080	6.959	-.0670	-2.595	-1.465

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

Sample Name: 460-111939-A-23-B Acquired: 4/14/2016 21:59:59 Type: Unk
Method: sw04052016(v10) 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	.8943	-.7105	-.3978	.3820	8.574	-.5987
Stddev	2.640	.3749	.2509	.2148	.388	.0313
%RSD	295.2	52.76	63.09	56.24	4.525	5.223
#1	-2.102	-.9265	-.1274	.3817	8.352	-.5825
#2	1.907	-.9273	-.4428	.1673	9.022	-.6347
#3	2.878	-.2776	-.6231	.5969	8.348	-.5788

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	.6031	-.0354	-.3741	88.95
Stddev	.7096	.0219	.2148	8.06
%RSD	117.7	61.95	57.40	9.060
#1	-.0775	-.0465	-.1640	83.50
#2	1.338	-.0101	-.3653	98.21
#3	.5482	-.0494	-.5932	85.14

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	3141.2	41700.	5461.7
Stddev	4.2	64.	31.3
%RSD	.13265	.15403	.57275
#1	3137.0	41673.	5427.3
#2	3145.3	41653.	5469.5
#3	3141.3	41773.	5488.4

Sample Name: CCV Acquired: 4/14/2016 22:08:06 Type: QC
Method: sw04052016(v10) 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	119400.	2384.	1195.	9793.	964.9	122000.
Stddev	296.	1.	2.	30.	1.1	482.
%RSD	.2480	.0368	.1500	.3032	.1123	.3948

#1	119100.	2385.	1193.	9817.	965.4	122500.
#2	119300.	2383.	1196.	9801.	963.7	121900.
#3	119700.	2384.	1195.	9760.	965.7	121600.

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	1219.	2438.	4891.	12050.	97430.	47880.
Stddev	3.	2.	23.	17.	363.	82.
%RSD	.2056	.0632	.4631	.1400	.3724	.1704

#1	1220.	2437.	4914.	12030.	97850.	47810.
#2	1220.	2440.	4890.	12060.	97270.	47970.
#3	1216.	2438.	4869.	12060.	97180.	47870.

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	120500.	4942.	120400.	2451.	7314.	953.1
Stddev	324.	14.	276.	6.	13.	3.7
%RSD	.2688	.2741	.2296	.2562	.1714	.3896

#1	120800.	4958.	120500.	2457.	7302.	951.6
#2	120300.	4937.	120100.	2453.	7327.	957.4
#3	120200.	4932.	120600.	2445.	7315.	950.4

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

Sample Name: CCV Acquired: 4/14/2016 22:08:06 Type: QC
Method: sw04052016(v10) 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	2388.	2459.	2432.	2453.	964.2	2426.
Stddev	11.	8.	8.	3.	4.1	3.
%RSD	.4490	.3243	.3092	.1371	.4264	.1261

#1	2380.	2452.	2440.	2455.	960.4	2425.
#2	2400.	2468.	2431.	2455.	968.6	2430.
#3	2384.	2458.	2425.	2449.	963.6	2424.

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	977.1	4908.	9723.	9245.
Stddev	3.2	6.	77.	53.
%RSD	.3246	.1222	.7896	.5718

#1	979.2	4908.	9802.	9201.
#2	978.7	4902.	9718.	9304.
#3	973.5	4914.	9649.	9232.

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	2916.9	38807.	5237.8
Stddev	8.6	268.	38.6
%RSD	.29459	.69102	.73628

#1	2913.3	38501.	5211.1
#2	2910.6	38918.	5220.3
#3	2926.7	39001.	5282.0

Sample Name: 460-112068-K-6-B Acquired: 4/14/2016 20:56:50 Type: Unk
Method: sw04052016(v10) 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	5.579	-1.315	-1.1715	2.826	.0023	57.83
Stddev	17.19	.721	.6372	.005	.0748	4.84
%RSD	308.2	54.80	371.6	.1824	3321.	8.373
#1	.8057	-1.116	-.8900	2.823	.0704	56.60
#2	24.66	-.7149	.0508	2.832	-.0777	53.72
#3	-8.724	-2.114	.3248	2.822	.0140	63.16

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	-.1084	.3945	-.1315	-.4452	-2.200
Stddev	.0680	.0782	.1314	.2563	5.271	19.23
%RSD	146.5	72.13	33.30	195.0	1184.	874.1
#1	.0031	-.1879	.5085	-.2739	2.978	9.870
#2	-.1239	-.1055	.2508	.1644	-6.515	-24.38
#3	-.0185	-.0317	.4242	-.2849	2.202	7.907

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	4.127	.0138	235.7	.3985	-.5282	-.4204
Stddev	3.667	.0286	3.6	.3429	1.836	1.149
%RSD	88.85	206.9	1.545	86.03	347.6	273.2
#1	2.670	.0425	235.5	.3960	-2.275	-1.736
#2	8.298	-.0147	239.5	.7427	1.386	.0936
#3	1.413	.0136	232.3	.0569	-.6960	.3814

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

Sample Name: 460-112068-K-6-B Acquired: 4/14/2016 20:56:50 Type: Unk
Method: sw04052016(v10) 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	2.811	-.8132	-.0979	.8098	8.944	-.6039
Stddev	1.653	.8982	.1507	.2264	.165	.1470
%RSD	58.79	110.5	153.9	27.96	1.841	24.35
#1	1.115	-1.628	-.1523	.6488	9.071	-.4358
#2	4.416	.1500	-.2140	.7118	8.758	-.6668
#3	2.901	-.9616	.0724	1.069	9.002	-.7089

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	3.136	.1257	-.3833	182.1
Stddev	.563	.0786	.0636	11.8
%RSD	17.96	62.57	16.59	6.481
#1	2.617	.1761	-.4248	170.9
#2	3.057	.1659	-.4150	180.8
#3	3.735	.0351	-.3101	194.4

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	3122.7	41366.	5450.5
Stddev	6.3	156.	26.7
%RSD	.20244	.37724	.48902
#1	3120.0	41302.	5478.5
#2	3129.9	41544.	5447.7
#3	3118.1	41252.	5425.4

Sample Name: 460-111932-F-23-B Acquired: 4/14/2016 22:19:56 Type: Unk

Method: sw04052016(v10) 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	-1.404	-1.080	-.0797	-.0463	-.0795	9.418
Stddev	8.335	1.006	.1490	.1482	.0929	5.242
%RSD	593.4	93.16	186.9	319.8	116.8	55.66

#1	-10.92	-.0646	-.1807	.0895	-.1800	3.576
#2	4.597	-1.098	.0914	-.2043	.0033	10.97
#3	2.110	-2.076	-.1497	-.0241	-.0619	13.71

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	.0263	-.0931	.4955	.0188	-.3062	-33.54
Stddev	.0252	.1232	.1655	.1510	9.966	2.24
%RSD	96.01	132.3	33.40	803.7	3254.	6.671

#1	-.0028	.0491	.6264	.0524	3.473	-35.91
#2	.0396	-.1608	.5506	.1501	7.218	-31.47
#3	.0420	-.1677	.3095	-.1462	-11.61	-33.24

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	-2.140	.0407	5.401	.1041	-.7381	-.5044
Stddev	6.044	.0229	5.346	.1460	1.137	1.692
%RSD	282.4	56.23	98.98	140.2	154.0	335.5

#1	1.511	.0506	7.264	.1961	-1.436	-2.056
#2	-9.116	.0145	9.566	.1806	-1.352	1.300
#3	1.185	.0568	-.6271	-.0642	.5735	-.7579

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

Sample Name: 460-111932-F-23-B Acquired: 4/14/2016 22:19:56 Type: Unk
Method: sw04052016(v10) 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	2.123	.4214	.1860	1.062	8.577	-.8172
Stddev	2.199	.2265	.2976	.097	.493	.1243
%RSD	103.6	53.76	159.9	9.172	5.754	15.21
#1	.3542	.6779	.1137	1.162	8.548	-.6993
#2	1.428	.2485	-.0687	1.057	8.099	-.8052
#3	4.585	.3378	.5131	.9673	9.084	-.9471

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	.4395	-.1046	-.2617	79.42
Stddev	.4574	.0453	.1516	12.57
%RSD	104.1	43.32	57.94	15.82
#1	.5329	-.1548	-.4341	91.19
#2	-.0573	-.0922	-.2017	80.88
#3	.8430	-.0667	-.1492	66.18

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	3126.7	41434.	5416.4
Stddev	9.1	74.	63.7
%RSD	.28944	.17958	1.1760
#1	3118.4	41381.	5397.0
#2	3136.4	41519.	5364.6
#3	3125.3	41402.	5487.5

Sample Name: CCV Acquired: 4/14/2016 22:28:01 Type: QC
Method: sw04052016(v10) 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	120300.	2348.	1204.	9712.	962.5	120400.
Stddev	820.	8.	1.	11.	5.2	168.
%RSD	.6814	.3293	.1005	.1141	.5374	.1393

#1	119400.	2357.	1204.	9722.	957.2	120600.
#2	121100.	2343.	1205.	9700.	967.5	120500.
#3	120400.	2344.	1202.	9714.	962.8	120300.

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	1206.	2432.	4818.	12120.	96730.	47850.
Stddev	3.	3.	11.	14.	155.	154.
%RSD	.2363	.1250	.2251	.1132	.1602	.3218

#1	1209.	2432.	4831.	12100.	96910.	47670.
#2	1203.	2428.	4813.	12130.	96660.	47970.
#3	1207.	2434.	4811.	12120.	96630.	47900.

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	120600.	4904.	121600.	2429.	7323.	951.8
Stddev	122.	9.	1076.	4.	10.	2.7
%RSD	.1007	.1886	.8854	.1597	.1301	.2852

#1	120700.	4911.	120500.	2432.	7334.	951.0
#2	120600.	4907.	122600.	2425.	7318.	954.8
#3	120500.	4894.	121600.	2430.	7317.	949.5

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

Sample Name: CCV Acquired: 4/14/2016 22:28:01 Type: QC
Method: sw04052016(v10) 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	2356.	2449.	2420.	2431.	958.7	2413.
Stddev	3.	5.	2.	9.	2.1	.
%RSD	.1344	.2200	.0629	.3525	.2238	.0091

#1	2358.	2452.	2422.	2436.	959.9	2413.
#2	2353.	2443.	2421.	2421.	960.1	2414.
#3	2358.	2452.	2419.	2435.	956.3	2413.

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	966.9	4904.	9818.	9432.
Stddev	1.0	14.	33.	78.
%RSD	.0987	.2912	.3399	.8226

#1	966.9	4892.	9839.	9463.
#2	966.0	4920.	9836.	9490.
#3	967.9	4901.	9780.	9344.

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	2903.5	38864.	5298.5
Stddev	10.4	269.	19.3
%RSD	.35968	.69090	.36419

#1	2893.0	38554.	5297.2
#2	2913.9	39021.	5318.4
#3	2903.7	39018.	5279.9

Sample Name: CCVL Acquired: 4/14/2016 22:35:46 Type: QC
Method: sw04052016(v10) 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	205.2	12.13	9.520	206.6	2.090	4991.
Stddev	12.7	1.41	.147	.2	.060	47.
%RSD	6.210	11.62	1.542	.0870	2.883	.9445

#1	193.6	11.00	9.548	206.5	2.023	4966.
#2	218.9	11.69	9.361	206.6	2.108	4962.
#3	203.1	13.71	9.650	206.8	2.139	5046.

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	4.123	52.92	10.37	24.41	159.6	4706.
Stddev	.056	.19	.50	.23	2.8	6.
%RSD	1.351	.3531	4.800	.9343	1.745	.1233

#1	4.059	52.77	9.805	24.35	162.2	4700.
#2	4.154	52.85	10.75	24.22	159.9	4712.
#3	4.156	53.13	10.54	24.67	156.7	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	4828.	15.86	4800.	42.78	10.76	18.52
Stddev	34.	.03	45.	.43	2.22	1.02
%RSD	.7131	.1775	.9403	.9940	20.64	5.479

#1	4846.	15.87	4800.	42.31	9.731	17.48
#2	4789.	15.88	4846.	43.13	9.245	19.51
#3	4851.	15.83	4755.	42.89	13.31	18.56

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

Sample Name: CCVL Acquired: 4/14/2016 22:35:46 Type: QC
Method: sw04052016(v10) 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	18.20	22.28	50.53	31.38	48.38	19.73
Stddev	2.61	1.34	.42	.23	.35	.07
%RSD	14.33	6.022	.8309	.7253	.7208	.3318
#1	16.00	21.41	50.65	31.27	48.43	19.72
#2	17.52	21.59	50.07	31.22	48.01	19.67
#3	21.08	23.82	50.88	31.64	48.70	19.80

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	50.09	20.24	20.04	F .9503
Stddev	.43	.09	.10	9.140
%RSD	.8593	.4457	.4808	961.8
#1	50.37	20.28	20.08	-1.501
#2	49.59	20.13	19.93	11.07
#3	50.30	20.30	20.11	-6.714

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	3085.5	41014.	5348.0
Stddev	18.4	251.	17.0
%RSD	.59527	.61125	.31827
#1	3101.0	41027.	5357.1
#2	3090.3	41258.	5328.3
#3	3065.2	40757.	5358.4

Sample Name: sd 460-112068-K-6-B Acquired: 4/14/2016 21:00:53 Type: Unk
Method: sw04052016(v10) 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	-16.17	-.5947	-.4728	.5075	.0211	4.825
Stddev	11.70	.4497	.6878	.1083	.0348	7.452
%RSD	72.35	75.61	145.5	21.34	164.5	154.4

#1	-16.83	-1.087	-.1025	.4778	.0608	-2.577
#2	-4.157	-.2062	-.0496	.4171	.0065	4.727
#3	-27.53	-.4906	-1.266	.6276	-.0040	12.33

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	.0152	-.0305	.1868	-.1917	-5.990	-28.99
Stddev	.0869	.1518	.5957	.4029	5.570	19.36
%RSD	573.2	497.1	318.9	210.2	92.98	66.77

#1	.0915	-.1270	-.4216	-.4149	-12.30	-8.353
#2	.0333	.1445	.7689	-.4336	-3.939	-31.87
#3	-.0793	-.1091	.2132	.2734	-1.737	-46.74

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	-1.332	-.0211	34.17	-.1867	.0310	-.6661
Stddev	3.468	.0589	2.44	.0834	1.191	1.601
%RSD	260.3	278.8	7.138	44.69	3839.	240.3

#1	-1.577	.0104	31.37	-.0905	.2329	-1.866
#2	2.251	-.0892	35.38	-.2391	-1.248	-1.284
#3	-4.671	.0153	35.78	-.2304	1.109	1.152

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

Sample Name: sd 460-112068-K-6-B Acquired: 4/14/2016 21:00:53 Type: Unk
Method: sw04052016(v10) 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	-0.6696	-1.140	-0.2072	.3397	.4636	-0.6648
Stddev	.4510	.631	.1014	.1041	.6903	.1071
%RSD	67.35	55.33	48.95	30.65	148.9	16.11
#1	-1.190	-1.835	-.3065	.3672	1.245	-.7861
#2	-.4164	-.9834	-.2114	.2246	.2095	-.6251
#3	-.4021	-.6026	-.1038	.4273	-.0636	-.5831

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	1.238	-0.0305	-0.5641	25.50
Stddev	.594	.0369	.1907	12.15
%RSD	48.00	121.1	33.82	47.66
#1	1.327	-.0225	-.4577	34.34
#2	1.782	-.0707	-.4502	30.53
#3	.6038	.0018	-.7843	11.64

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	3092.6	41200.	5434.2
Stddev	9.3	241.	117.3
%RSD	.29971	.58440	2.1585
#1	3082.4	40932.	5357.2
#2	3095.1	41269.	5569.2
#3	3100.4	41399.	5376.2

Sample Name: pds 460-112068-K-6-B Acquired: 4/14/2016 21:08:37 Type: Unk
Method: sw04052016(v10) 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	1899.	1843.	45.34	1974.	48.34	19140.
Stddev	31.	3.	.28	8.	.19	95.
%RSD	1.650	.1603	.6211	.4041	.3968	.4962
#1	1863.	1847.	45.41	1965.	48.20	19060.
#2	1915.	1841.	45.58	1976.	48.28	19240.
#3	1920.	1842.	45.03	1981.	48.56	19120.

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	49.53	499.3	201.1	233.3	995.2	17230.
Stddev	.10	1.2	1.3	1.0	1.2	119.
%RSD	.2043	.2352	.6292	.4143	.1247	.6929
#1	49.44	498.0	199.6	232.9	994.7	17100.
#2	49.53	499.5	201.9	232.6	996.6	17240.
#3	49.64	500.4	201.7	234.4	994.3	17340.

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	18480.	499.5	18660.	511.4	501.4	453.7
Stddev	96.	1.1	268.	1.2	2.8	2.3
%RSD	.5220	.2251	1.438	.2408	.5622	.5054
#1	18400.	498.2	18360.	510.1	498.3	451.3
#2	18590.	500.2	18770.	511.4	503.9	454.0
#3	18460.	500.2	18860.	512.6	502.1	455.9

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

Sample Name: pds 460-112068-K-6-B Acquired: 4/14/2016 21:08:37 Type: Unk
 Method: sw04052016(v10) 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	1880.	2102.	490.7	508.4	492.0	486.5
Stddev	8.	4.	1.9	3.1	2.3	.7
%RSD	.4303	.2079	.3780	.6069	.4772	.1337
#1	1890.	2107.	492.6	509.7	494.5	486.7
#2	1876.	2101.	490.4	510.7	491.7	487.1
#3	1876.	2099.	488.9	504.9	489.9	485.8

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	503.1	481.2	488.7	230.4
Stddev	3.0	4.7	1.5	.9
%RSD	.5924	.9716	.3044	.3834
#1	504.7	476.5	487.2	231.0
#2	505.0	481.1	488.6	229.4
#3	499.7	485.9	490.2	230.8

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	3024.6	40267.	5371.6
Stddev	6.4	298.	93.4
%RSD	.21316	.74044	1.7380
#1	3026.5	40516.	5474.1
#2	3017.4	39936.	5291.6
#3	3029.8	40348.	5348.9

Sample Name: CCV Acquired: 4/14/2016 21:16:19 Type: QC
Method: sw04052016(v10) 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	119900.	2410.	1213.	9924.	965.5	123000.
Stddev	312.	5.	1.	7.	1.1	109.
%RSD	.2600	.2135	.0811	.0703	.1124	.0885

#1	119500.	2405.	1212.	9916.	964.6	122900.
#2	120100.	2410.	1212.	9927.	966.7	123100.
#3	120000.	2416.	1214.	9928.	965.2	122800.

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	1230.	2470.	4935.	12220.	97650.	48210.
Stddev	1.	1.	10.	27.	179.	127.
%RSD	.0847	.0563	.2042	.2194	.1835	.2625

#1	1229.	2469.	4940.	12220.	97820.	48070.
#2	1231.	2471.	4941.	12250.	97460.	48280.
#3	1231.	2471.	4923.	12190.	97650.	48290.

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	121300.	4986.	120900.	2482.	7381.	966.2
Stddev	27.	4.	46.	4.	4.	2.9
%RSD	.0226	.0791	.0384	.1458	.0549	.3009

#1	121300.	4989.	120900.	2478.	7377.	963.2
#2	121300.	4987.	120800.	2486.	7381.	966.5
#3	121400.	4981.	120800.	2482.	7385.	969.0

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

Sample Name: CCV Acquired: 4/14/2016 21:16:19 Type: QC
Method: sw04052016(v10) 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	2419.	2492.	2454.	2464.	982.2	2460.
Stddev	7.	10.	1.	4.	2.9	5.
%RSD	.2760	.4018	.0406	.1556	.2907	.2133

#1	2412.	2481.	2452.	2459.	979.5	2455.
#2	2424.	2493.	2454.	2466.	981.8	2460.
#3	2422.	2501.	2454.	2466.	985.2	2466.

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	988.7	4947.	9825.	9517.
Stddev	3.6	9.	61.	57.
%RSD	.3639	.1881	.6200	.5953

#1	989.7	4938.	9875.	9533.
#2	991.7	4947.	9844.	9564.
#3	984.7	4956.	9757.	9454.

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	2867.7	38356.	5305.4
Stddev	2.6	131.	22.9
%RSD	.09096	.34246	.43085

#1	2868.6	38205.	5320.8
#2	2864.8	38417.	5279.2
#3	2869.8	38445.	5316.4

Sample Name: CCVL Acquired: 4/14/2016 21:24:06 Type: QC
Method: sw04052016(v10) 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	204.8	14.54	9.437	213.0	2.040	5162.
Stddev	10.8	2.27	.240	.9	.019	4.
%RSD	5.255	15.60	2.542	.4127	.9396	.0731

#1	202.8	15.42	9.323	213.1	2.059	5158.
#2	216.4	11.96	9.274	213.8	2.039	5166.
#3	195.2	16.23	9.712	212.0	2.021	5161.

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	53.81	10.80	24.29	162.8	4819.
Stddev	.086	.40	.54	.11	10.4	45.
%RSD	2.051	.7426	4.971	.4439	6.375	.9326

#1	4.223	53.81	10.46	24.21	150.8	4767.
#2	4.087	54.21	10.53	24.42	169.7	4843.
#3	4.245	53.41	11.42	24.25	167.8	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	4922.	16.26	4803.	43.93	9.580	18.83
Stddev	14.	.15	.	.67	1.373	.28
%RSD	.2806	.9326	.0068	1.517	14.34	1.471

#1	4924.	16.10	4803.	43.51	10.29	18.90
#2	4908.	16.28	4803.	44.70	10.45	18.52
#3	4935.	16.40	4803.	43.59	7.997	19.06

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

Sample Name: CCVL Acquired: 4/14/2016 21:24:06 Type: QC
Method: sw04052016(v10) 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	20.54	23.48	51.78	32.02	49.91	19.80
Stddev	.75	.28	.35	.36	.51	.31
%RSD	3.634	1.191	.6752	1.137	1.022	1.543
#1	21.27	23.46	52.16	32.07	49.32	19.82
#2	20.57	23.22	51.47	32.36	50.22	20.10
#3	19.78	23.77	51.71	31.64	50.18	19.49

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	51.42	20.78	20.51	F -18.58
Stddev	.42	.06	.20	10.27
%RSD	.8135	.2944	.9773	55.30
#1	51.85	20.72	20.33	-25.62
#2	51.01	20.78	20.47	-6.789
#3	51.40	20.84	20.73	-23.32

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	3013.0	40039.	5276.0
Stddev	7.5	15.	26.2
%RSD	.24825	.03857	.49725
#1	3021.0	40037.	5275.2
#2	3006.3	40055.	5250.3
#3	3011.6	40024.	5302.7

Sample Name: 460-111911-A-47-B Acquired: 4/14/2016 21:32:08 Type: Unk

Method: sw04052016(v10) 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	38.29	-2.100	-.2975	26.05	-.0037	20770.
Stddev	11.14	1.259	.3210	.45	.0267	309.
%RSD	29.10	59.98	107.9	1.727	716.7	1.487

#1	50.34	-.7798	-.3742	26.49	-.0078	20850.
#2	28.37	-3.288	-.5731	26.07	.0247	21030.
#3	36.15	-2.231	.0550	25.59	-.0281	20430.

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	-.0071	-.1845	.1688	212.3	7.106	1193.
Stddev	.0850	.1058	.0851	3.4	8.421	4.
%RSD	1198.	57.32	50.41	1.605	118.5	.3317

#1	.0112	-.2984	.1148	213.0	8.644	1188.
#2	.0672	-.0893	.1248	215.2	-1.979	1193.
#3	-.0997	-.1660	.2670	208.5	14.65	1196.

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	7038.	1.716	47420.	3.882	1.554	-1.529
Stddev	54.	.007	931.	.208	2.659	1.115
%RSD	.7673	.4232	1.963	5.358	171.1	72.89

#1	7055.	1.713	48040.	3.913	1.402	-2.003
#2	7082.	1.711	47870.	3.661	4.285	-2.329
#3	6978.	1.724	46350.	4.073	-1.025	-.2561

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

Sample Name: 460-111911-A-47-B Acquired: 4/14/2016 21:32:08 Type: Unk
Method: sw04052016(v10) 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	-2.038	.4584	-.0242	8.584	23.62	-.4433
Stddev	3.147	2.866	.2770	.068	.78	.2117
%RSD	154.4	625.2	1143.	.7973	3.315	47.75
#1	1.595	-.7780	.2945	8.615	24.52	-.5891
#2	-3.870	3.735	-.1603	8.506	23.29	-.2005
#3	-3.840	-1.582	-.2068	8.632	23.06	-.5404

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	.5753	84.90	.7306	3113.
Stddev	.5120	1.39	.1180	16.
%RSD	88.99	1.639	16.15	.5180
#1	.8751	85.15	.6137	3126.
#2	-.0159	86.14	.8497	3119.
#3	.8667	83.40	.7283	3095.

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	2995.3	39730.	5382.5
Stddev	42.1	437.	120.5
%RSD	1.4061	1.1000	2.2387
#1	2949.2	39487.	5289.0
#2	3005.2	39468.	5340.1
#3	3031.6	40234.	5518.5

Sample Name: 460-111978-E-1-A Acquired: 4/14/2016 21:36:09 Type: Unk
Method: sw04052016(v10) 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	292.2	-.1196	.0424	69.54	.6845	8905.
Stddev	9.2	2.613	.3809	.64	.0312	181.
%RSD	3.162	2184.	899.2	.9220	4.552	2.036
#1	302.8	2.534	.3891	70.20	.6969	9107.
#2	287.0	-.2031	-.3654	68.92	.7075	8849.
#3	286.7	-2.690	.1034	69.48	.6490	8758.

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	-.0053	16.97	.3755	1.221	10110.	1890.
Stddev	.0887	.45	.0480	.080	159.	37.
%RSD	1673.	2.660	12.78	6.551	1.572	1.968
#1	-.0824	17.48	.3216	1.278	10300.	1927.
#2	.0916	16.82	.3914	1.255	10030.	1890.
#3	-.0251	16.61	.4136	1.129	10020.	1853.

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	2611.	240.7	30770.	6.750	2.464	-.6012
Stddev	38.	3.5	277.	.310	1.687	.5720
%RSD	1.438	1.439	.9003	4.594	68.47	95.16
#1	2652.	244.7	30520.	7.096	2.331	-1.096
#2	2602.	239.1	31070.	6.657	.8472	-.7330
#3	2578.	238.4	30710.	6.497	4.213	.0253

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

Sample Name: 460-111978-E-1-A Acquired: 4/14/2016 21:36:09 Type: Unk
Method: sw04052016(v10) 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	1.312	.1315	-.9675	35.69	39.62	-.8441
Stddev	.829	.2672	.1369	.65	.56	.1044
%RSD	63.17	203.2	14.15	1.820	1.422	12.37
#1	2.085	-.1225	-.8348	36.44	40.06	-.9421
#2	.4367	.1068	-.9595	35.36	38.99	-.7343
#3	1.415	.4103	-1.108	35.27	39.81	-.8560

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	.4783	65.77	.2685	2354.
Stddev	.9534	.15	.1166	31.
%RSD	199.3	.2321	43.42	1.312
#1	1.380	65.91	.3985	2342.
#2	-.5198	65.78	.2339	2331.
#3	.5752	65.61	.1732	2389.

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	3059.7	40522.	5402.1
Stddev	33.6	760.	149.0
%RSD	1.0990	1.8743	2.7576
#1	3021.8	39706.	5326.8
#2	3085.8	40654.	5305.8
#3	3071.5	41207.	5573.7

Sample Name: 480-98045-C-1-B Acquired: 4/14/2016 21:44:06 Type: Unk
Method: sw04052016(v10) 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	76.34	.3053	-.4282	25.71	-.0112	35430.
Stddev	8.00	.6347	.2988	.23	.0372	44.
%RSD	10.49	207.9	69.77	.8837	331.8	.1229
#1	85.25	1.027	-.1441	25.76	.0181	35450.
#2	69.76	-.1649	-.4008	25.92	.0013	35460.
#3	74.00	.0535	-.7398	25.47	-.0531	35380.

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	-.0413	-.2253	.5941	2.272	83.75	1760.
Stddev	.1036	.0342	.3549	.223	9.90	24.
%RSD	251.1	15.16	59.74	9.821	11.82	1.346
#1	.0016	-.1871	.2855	2.024	83.55	1777.
#2	.0341	-.2362	.9820	2.334	93.74	1733.
#3	-.1595	-.2527	.5150	2.457	73.95	1769.

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	9605.	21.62	63260.	.9847	-.0945	.0522
Stddev	41.	.11	687.	.0660	.0735	1.840
%RSD	.4222	.5248	1.085	6.702	77.85	3521.
#1	9568.	21.49	63390.	.9539	-.0529	-1.978
#2	9648.	21.71	63870.	1.061	-.0511	1.608
#3	9599.	21.66	62510.	.9398	-.1794	.5268

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

Sample Name: 480-98045-C-1-B Acquired: 4/14/2016 21:44:06 Type: Unk
Method: sw04052016(v10) 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	.7329	.3201	.4872	4.910	48.98	-.5032
Stddev	1.322	1.512	.2416	.168	.56	.0967
%RSD	180.4	472.5	49.59	3.413	1.149	19.23
#1	-.7869	1.146	.6933	4.954	49.03	-.6120
#2	1.368	-1.425	.2213	4.724	49.51	-.4271
#3	1.618	1.240	.5469	5.050	48.39	-.4704

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	.7619	94.54	1.952	992.4
Stddev	.5558	.37	.681	34.2
%RSD	72.94	.3886	34.87	3.445
#1	1.262	94.20	1.865	982.1
#2	.1636	94.49	1.319	964.5
#3	.8601	94.93	2.672	1030.

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	2980.7	39735.	5342.2
Stddev	11.0	288.	103.3
%RSD	.37046	.72515	1.9337
#1	2968.2	39409.	5294.9
#2	2984.9	39842.	5270.9
#3	2989.0	39954.	5460.6

Sample Name: 480-98045-C-2-B Acquired: 4/14/2016 21:48:08 Type: Unk
Method: sw04052016(v10) 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	123.7	3.504	.0651	143.5	-.0037	66400.
Stddev	9.0	1.546	.3228	.2	.0596	311.
%RSD	7.238	44.13	496.2	.1638	1625.	.4679
#1	129.2	2.427	.1623	143.4	-.0448	66070.
#2	113.4	2.808	.3281	143.8	.0647	66430.
#3	128.6	5.275	-.2952	143.4	-.0309	66690.

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	-.2195	.3000	2.661	20.56	16210.	5783.
Stddev	.0498	.1797	.217	.36	139.	37.
%RSD	22.71	59.88	8.145	1.732	.8539	.6370
#1	-.1620	.4929	2.817	20.82	16060.	5741.
#2	-.2475	.1374	2.752	20.70	16280.	5810.
#3	-.2490	.2698	2.413	20.16	16310.	5799.

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	14640.	5107.	74810.	17.41	5.165	-1.734
Stddev	49.	15.	340.	.25	.841	1.600
%RSD	.3378	.2965	.4546	1.453	16.29	92.29
#1	14580.	5090.	75140.	17.66	4.233	-3.479
#2	14650.	5111.	74460.	17.42	5.869	-1.385
#3	14680.	5120.	74820.	17.15	5.392	-.3366

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

Sample Name: 480-98045-C-2-B Acquired: 4/14/2016 21:48:08 Type: Unk
Method: sw04052016(v10) 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	4.252	2.227	-1.486	127.2	103.4	2.510
Stddev	1.807	1.679	.353	.7	.7	.241
%RSD	42.50	75.41	23.76	.5826	.6474	9.608
#1	2.414	2.666	-1.153	126.5	102.9	2.740
#2	4.316	.3714	-1.856	127.2	103.1	2.532
#3	6.026	3.642	-1.449	128.0	104.2	2.259

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	-.0748	210.9	1.670	13230.
Stddev	.5166	.6	.167	183.
%RSD	690.3	.2746	9.997	1.385
#1	-.4972	211.5	1.652	13020.
#2	-.2286	210.9	1.512	13360.
#3	.5012	210.3	1.845	13300.

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	2952.0	39325.	5342.4
Stddev	5.2	89.	57.5
%RSD	.17478	.22729	1.0766
#1	2957.9	39318.	5277.7
#2	2949.8	39417.	5388.0
#3	2948.3	39238.	5361.4

Sample Name: 480-98045-C-3-B Acquired: 4/14/2016 21:52:05 Type: Unk
Method: sw04052016(v10) 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	772.5	3.127	.2975	126.6	.0462	81630.
Stddev	8.4	.956	.8416	.4	.0460	244.
%RSD	1.092	30.58	282.9	.3402	99.62	.2983
#1	767.9	3.582	.6589	127.1	.0805	81610.
#2	767.3	2.028	-.6645	126.5	.0642	81890.
#3	782.2	3.770	.8981	126.3	-.0061	81400.

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	-.2451	1.257	3.214	6.977	16180.	4224.
Stddev	.0743	.098	.431	.054	30.	7.
%RSD	30.31	7.816	13.42	.7777	.1860	.1554
#1	-.2631	1.345	3.654	7.014	16170.	4217.
#2	-.3088	1.151	3.196	7.001	16210.	4228.
#3	-.1635	1.275	2.793	6.914	16150.	4229.

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	16170.	4650.	58950.	4.140	13.51	-1.128
Stddev	17.	11.	745.	.522	1.15	1.257
%RSD	.1076	.2378	1.264	12.61	8.544	111.4
#1	16160.	4650.	59460.	3.555	14.59	-.6981
#2	16190.	4661.	59300.	4.559	12.29	-.1422
#3	16150.	4638.	58100.	4.306	13.65	-2.543

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

Sample Name: 480-98045-C-3-B Acquired: 4/14/2016 21:52:05 Type: Unk
Method: sw04052016(v10) 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	1.828	1.983	.9615	17.31	48.42	-.1084
Stddev	1.500	.823	.4721	.13	.57	.2153
%RSD	82.08	41.50	49.10	.7541	1.169	198.6
#1	1.485	1.033	1.357	17.18	47.93	-.3570
#2	3.470	2.429	.4390	17.31	48.29	.0173
#3	.5290	2.487	1.088	17.45	49.04	.0144

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	.3394	216.1	23.85	17360.
Stddev	.3258	1.2	.09	159.
%RSD	95.97	.5459	.3718	.9165
#1	-.0367	217.1	23.95	17190.
#2	.5287	216.4	23.80	17390.
#3	.5263	214.8	23.80	17510.

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	2957.8	39447.	5362.3
Stddev	5.7	331.	77.2
%RSD	.19369	.83841	1.4403
#1	2957.9	39350.	5289.7
#2	2952.1	39175.	5353.8
#3	2963.5	39815.	5443.5

Sample Name: 480-98045-C-4-B Acquired: 4/14/2016 21:56:01 Type: Unk
Method: sw04052016(v10) 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	602.3	2.078	.3036	131.4	.0542	71600.
Stddev	7.3	1.723	.1918	.3	.0649	284.
%RSD	1.211	82.95	63.18	.2506	119.7	.3969

#1	594.2	2.108	.1674	131.7	.0075	71270.
#2	604.2	3.786	.2204	131.6	.1284	71780.
#3	608.4	.3393	.5229	131.1	.0269	71750.

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	-.1947	.8163	2.960	6.934	19930.	3925.
Stddev	.1032	.0820	.650	.130	154.	14.
%RSD	53.04	10.05	21.95	1.880	.7744	.3498

#1	-.0896	.7899	2.337	7.054	19760.	3910.
#2	-.2960	.9083	2.910	6.952	19980.	3938.
#3	-.1983	.7508	3.633	6.795	20060.	3927.

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	14630.	4988.	56700.	3.598	13.42	.9573
Stddev	50.	13.	467.	.222	1.65	.5059
%RSD	.3410	.2557	.8232	6.179	12.31	52.85

#1	14580.	4974.	56170.	3.696	11.55	.6575
#2	14640.	4996.	56870.	3.344	14.03	1.541
#3	14680.	4996.	57050.	3.754	14.68	.6730

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

Sample Name: 480-98045-C-4-B Acquired: 4/14/2016 21:56:01 Type: Unk
Method: sw04052016(v10) 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	2.537	1.707	-.3164	13.86	62.23	.1211
Stddev	.832	.262	.3611	.18	.41	.1734
%RSD	32.79	15.34	114.1	1.316	.6578	143.2
#1	1.577	1.986	-.2545	13.69	61.79	.1647
#2	3.051	1.669	-.7045	13.83	62.59	.2686
#3	2.983	1.467	.0097	14.05	62.32	-.0699

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	.7431	196.4	19.02	15590.
Stddev	.6433	1.1	.17	84.
%RSD	86.57	.5817	.9145	.5417
#1	.0994	195.1	18.85	15680.
#2	1.386	196.8	19.01	15520.
#3	.7439	197.3	19.20	15560.

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	3003.6	40114.	5441.4
Stddev	11.0	113.	30.1
%RSD	.36458	.28262	.55236
#1	2991.0	40110.	5471.7
#2	3008.9	40003.	5411.6
#3	3010.9	40229.	5441.0

Sample Name: 460-111945-A-23-A Acquired: 4/14/2016 22:04:02 Type: Unk

Method: sw04052016(v10) 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	-5.224	-1.028	.1138	-.0610	.0089	5.500
Stddev	8.522	1.009	.4101	.1042	.0934	4.939
%RSD	163.1	98.22	360.4	170.8	1048.	89.80

#1	2.177	-1.229	.4241	-.0242	.1099	4.906
#2	-14.54	.0672	.2683	.0198	-.0088	.8845
#3	-3.309	-1.921	-.3511	-.1786	-.0743	10.71

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	-.1893	-.0182	-.0875	.9595	-.2920
Stddev	.0168	.2723	.4896	.1000	2.651	20.23
%RSD	346.3	143.8	2695.	114.2	276.3	6929.

#1	-.0186	-.3965	-.5575	.0227	1.105	-9.949
#2	-.0100	-.2905	.3981	-.1723	-1.761	22.96
#3	.0139	.1190	.1049	-.1131	3.535	-13.88

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	-6.050	.1525	12.51	.7710	-.6619	-.7889
Stddev	2.973	.0483	4.12	.1129	1.636	.8100
%RSD	49.14	31.66	32.97	14.65	247.1	102.7

#1	-6.448	.1066	17.08	.8987	.5608	-1.346
#2	-2.898	.2029	9.073	.6841	-.0265	.1403
#3	-8.804	.1480	11.37	.7303	-2.520	-1.161

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

Sample Name: 460-111945-A-23-A Acquired: 4/14/2016 22:04:02 Type: Unk
Method: sw04052016(v10) 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	-0.3457	-1.231	-0.1838	0.9356	8.181	-0.6642
Stddev	2.010	.224	.3528	.2517	.584	.0745
%RSD	581.6	18.21	192.0	26.90	7.141	11.21
#1	-1.170	-1.277	-0.3007	1.183	7.669	-0.7496
#2	1.946	-0.9871	-0.4632	.6797	8.056	-0.6128
#3	-1.813	-1.428	.2126	.9442	8.818	-0.6302

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	0.0398	0.0061	-0.5365	84.12
Stddev	.5924	.0218	.0754	13.75
%RSD	1487.	357.7	14.06	16.34
#1	.5962	-0.0166	-0.5321	85.78
#2	.1064	.0269	-0.4634	69.61
#3	-0.5830	.0080	-0.6141	96.96

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	3137.3	41741.	5489.9
Stddev	4.6	216.	52.2
%RSD	.14636	.51712	.95140
#1	3139.3	41588.	5438.6
#2	3140.5	41988.	5488.0
#3	3132.0	41647.	5543.0

Sample Name: CCB Acquired: 4/14/2016 22:11:52 Type: QC
Method: sw04052016(v10) 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	-.5205	-.7976	.0229	.0642	.1305	3.770
Stddev	5.306	.5103	.3276	.2040	.1265	7.399
%RSD	1019.	63.97	1431.	317.7	96.93	196.2
#1	-2.531	-.9745	.2815	.1602	.2512	5.668
#2	-4.528	-1.196	-.3455	.2025	-.0012	10.04
#3	5.497	-.2224	.1327	-.1701	.1416	-4.392

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	.0972	.0981	.3898	.1570	1.225	7.107
Stddev	.0607	.0639	.1677	.1377	8.049	19.02
%RSD	62.44	65.11	43.03	87.69	656.8	267.7
#1	.0343	.0255	.2325	.1567	-2.407	-13.45
#2	.1553	.1456	.3705	.2949	10.45	10.68
#3	.1019	.1233	.5663	.0195	-4.367	24.09

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	-.4728	.1586	-2.217	.2342	-.1326	.7286
Stddev	1.323	.0572	2.104	.3613	.1566	.7547
%RSD	279.8	36.09	94.90	154.3	118.2	103.6
#1	.8776	.2016	-.3404	.6304	-.2958	1.567
#2	-1.767	.1805	-4.491	-.0770	-.1185	.1038
#3	-.5291	.0936	-1.819	.1491	.0165	.5149

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

Sample Name: CCB Acquired: 4/14/2016 22:11:52 Type: QC
Method: sw04052016(v10) 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	-1.630	.1817	-.0006	-.0009	-.8862	.3875
Stddev	3.522	1.305	.1271	.1657	.3027	.5143
%RSD	216.1	718.1	21470.	17760.	34.15	132.7
#1	2.220	-.6496	.1125	.1324	-.5368	.9754
#2	-2.421	-.4909	.0238	-.1865	-1.067	.1657
#3	-4.688	1.686	-.1381	.0512	-1.054	.0213

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	1.004	.1437	.2743	-11.09
Stddev	.691	.1033	.0568	7.01
%RSD	68.76	71.92	20.72	63.21
#1	1.262	.1909	.2651	-17.09
#2	.2220	.2149	.3352	-3.385
#3	1.529	.0252	.2227	-12.79

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	3094.7	41305.	5433.4
Stddev	12.0	139.	39.2
%RSD	.38638	.33636	.72216
#1	3081.2	41195.	5470.8
#2	3099.1	41461.	5436.9
#3	3103.8	41259.	5392.5

Sample Name: CCVL Acquired: 4/14/2016 22:15:56 Type: QC
Method: sw04052016(v10) 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	208.7	13.62	9.768	205.8	1.929	5013.
Stddev	11.5	1.36	.275	.6	.070	13.
%RSD	5.486	9.982	2.812	.2961	3.642	.2515

#1	214.6	15.19	9.680	206.4	1.949	5018.
#2	195.5	12.76	10.08	205.2	1.986	5022.
#3	216.0	12.92	9.548	205.7	1.850	4999.

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	4.197	52.43	10.46	24.42	157.9	4717.
Stddev	.015	.16	.37	.32	10.5	8.
%RSD	.3604	.3131	3.583	1.317	6.639	.1638

#1	4.209	52.58	10.09	24.07	149.4	4711.
#2	4.180	52.25	10.45	24.51	169.6	4726.
#3	4.201	52.46	10.84	24.69	154.8	4714.

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	4892.	15.94	4741.	42.55	11.43	18.12
Stddev	27.	.05	23.	.56	1.56	1.13
%RSD	.5565	.3374	.4785	1.322	13.61	6.258

#1	4883.	15.90	4726.	42.38	11.68	16.82
#2	4923.	16.00	4729.	42.09	12.85	18.64
#3	4871.	15.91	4767.	43.18	9.764	18.89

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

Sample Name: CCVL Acquired: 4/14/2016 22:15:56 Type: QC
Method: sw04052016(v10) 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	21.50	21.78	50.36	31.70	48.12	19.18
Stddev	1.41	.35	.51	.24	.21	.33
%RSD	6.573	1.606	1.019	.7416	.4269	1.743
#1	22.94	21.61	50.11	31.97	47.94	19.11
#2	21.45	22.18	50.95	31.53	48.07	18.89
#3	20.12	21.55	50.02	31.61	48.34	19.55

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	50.33	20.26	20.08	F -6.504
Stddev	.71	.03	.10	15.96
%RSD	1.414	.1573	.4906	245.3
#1	51.14	20.23	20.14	-9.511
#2	49.81	20.28	19.97	10.74
#3	50.03	20.29	20.13	-20.74

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	3114.2	41220.	5445.2
Stddev	17.4	325.	85.2
%RSD	.55869	.78928	1.5639
#1	3096.4	40954.	5370.2
#2	3115.1	41124.	5427.7
#3	3131.2	41583.	5537.8

Sample Name: 460-111682-A-18-A Acquired: 4/14/2016 22:24:00 Type: Unk

Method: sw04052016(v10) 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	41.74	-1.383	.1457	23.73	-.0332	19880.
Stddev	10.95	.077	.4876	.13	.0993	57.
%RSD	26.23	5.546	334.6	.5615	298.8	.2871

#1	32.51	-1.411	-.4082	23.57	-.0367	19820.
#2	38.87	-1.442	.3351	23.82	-.1307	19930.
#3	53.84	-1.296	.5103	23.79	.0678	19890.

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	-.0060	-.2834	.4960	14.97	69.26	1223.
Stddev	.1519	.3498	.2368	.42	2.31	22.
%RSD	2534.	123.5	47.75	2.778	3.336	1.806

#1	-.1098	-.6821	.6008	14.51	66.60	1247.
#2	.1684	-.0278	.2248	15.32	70.73	1203.
#3	-.0765	-.1402	.6623	15.07	70.45	1220.

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	6855.	1.804	47070.	.7348	1.775	-.9090
Stddev	54.	.028	263.	.2581	1.124	1.501
%RSD	.7870	1.560	.5595	35.13	63.32	165.2

#1	6792.	1.781	47310.	.6737	.6355	-1.099
#2	6886.	1.835	47110.	1.018	2.883	-2.306
#3	6886.	1.796	46790.	.5127	1.806	.6783

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

Sample Name: 460-111682-A-18-A Acquired: 4/14/2016 22:24:00 Type: Unk
Method: sw04052016(v10) 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	-1.622	-.2548	-.0555	15.47	21.77	-.5034
Stddev	1.603	.2592	.3368	.22	.30	.1882
%RSD	98.84	101.7	606.6	1.421	1.375	37.40
#1	.0489	-.5376	.1924	15.28	21.87	-.6728
#2	-1.767	-.0284	.0800	15.71	21.43	-.5366
#3	-3.147	-.1985	-.4390	15.41	22.00	-.3007

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	1.323	82.59	.7723	3053.
Stddev	.586	.20	.1132	27.
%RSD	44.28	.2450	14.66	.9006
#1	1.474	82.52	.7975	3024.
#2	1.818	82.82	.6486	3079.
#3	.6762	82.43	.8709	3055.

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	3036.3	40495.	5430.2
Stddev	7.7	54.	28.8
%RSD	.25351	.13363	.53110
#1	3043.9	40450.	5396.9
#2	3036.4	40478.	5446.9
#3	3028.5	40555.	5446.7

Sample Name: CCB Acquired: 4/14/2016 22:31:42 Type: QC
Method: sw04052016(v10) 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	1.829	-1.404	.0553	.3759	.0563	3.918
Stddev	8.096	1.215	.2864	.2103	.1187	5.331
%RSD	442.6	86.59	518.1	55.96	210.9	136.1
#1	4.144	-1.485	-.2664	.6187	.1637	6.796
#2	8.515	-.1493	.1496	.2480	.0764	-2.233
#3	-7.172	-2.576	.2826	.2611	-.0712	7.191

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	.0816	.1691	-.0663	.4177	3.320	-31.93
Stddev	.0115	.2020	.3877	.4188	1.981	15.81
%RSD	14.08	119.4	584.3	100.3	59.67	49.51
#1	.0940	.3975	.3644	.8887	3.959	-14.42
#2	.0792	.0958	-.3872	.0872	1.098	-36.22
#3	.0714	.0140	-.1763	.2771	4.901	-45.14

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	-1.847	.2799	-1.975	.5405	-.1667	.2625
Stddev	1.500	.1169	8.967	.0985	1.579	1.890
%RSD	81.21	41.75	454.0	18.22	947.6	719.9
#1	-.5727	.4137	-1.982	.6497	1.655	-1.315
#2	-3.500	.1983	6.996	.5137	-1.007	-.2547
#3	-1.468	.2276	-10.94	.4583	-1.149	2.357

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

Sample Name: CCB Acquired: 4/14/2016 22:31:42 Type: QC
Method: sw04052016(v10) 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	1.767	.4390	.0703	.0819	-.6782	.3546
Stddev	2.776	1.286	.1881	.1854	.1253	.6203
%RSD	157.1	293.0	267.6	226.3	18.47	174.9
#1	4.142	1.276	.2684	.2904	-.5952	1.028
#2	-1.284	1.083	.0484	-.0645	-.6171	.2299
#3	2.443	-1.042	-.1060	.0199	-.8223	-.1938

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	.8469	.0764	.4289	-6.331
Stddev	.3630	.0716	.2770	9.625
%RSD	42.87	93.73	64.58	152.0
#1	.7467	.1336	.7487	-17.34
#2	1.249	.0995	.2769	.5181
#3	.5445	-.0039	.2612	-2.176

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	3088.1	40998.	5366.7
Stddev	8.4	40.	40.9
%RSD	.27108	.09778	.76201
#1	3078.5	41037.	5327.2
#2	3092.5	41000.	5408.9
#3	3093.4	40957.	5363.9

METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-112069-1

SDG No.: _____

Batch Number: 362460 Batch Start Date: 04/14/16 07:27 Batch Analyst: Chen, MandiBatch Method: 3050B Batch End Date: 04/14/16 14:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	ME_LCS-int 00055	ME_LCSS_91 00001	
MB 460-362460/1		3050B, 6010C		CALC NOT SET TO RUN	1.00 g	50 mL			
LCSSRM 460-362460/2		3050B, 6010C		CALC NOT SET TO RUN	1.02 g	50 mL		1.02 g	
460-112069-A-1	A3	3050B, 6010C	T	CALC NOT SET TO RUN	1.01 g	50 mL			
460-112069-A-1 DU	A3	3050B, 6010C	T	CALC NOT SET TO RUN	1.07 g	50 mL			
460-112069-A-1 MS	A3	3050B, 6010C	T	CALC NOT SET TO RUN	1.07 g	50 mL	2 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	#63
Thermometer ID	ICP-4 (CF -1)
Digestion Tube/Cup ID	J235667-6562 (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.

6010C

Page 1 of 1

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-112069-1

SDG No.: _____

Project: DEC Elmont546; Site: E130150

Client Sample ID
A3

Lab Sample ID
460-112069-1

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-112069-1
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: 460-112069-1
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.: 460-112069-1

SDG No.: _____

Instrument ID: NOEQUIP Method: Moisture

Start Date: 04/13/2016 16:29 End Date: 04/13/2016 22:00

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				% S o l	M o i s t																
ZZZZZZ			16:29																		
ZZZZZZ			16:29																		
ZZZZZZ			16:29																		
ZZZZZZ			16:29																		
ZZZZZZ			16:29																		
ZZZZZZ			16:29																		
ZZZZZZ			16:29																		
460-111927-A-23 DU	1	T	16:29	X	X																
460-112069-1	1	T	22:00	X	X																
ZZZZZZ			22:00																		
ZZZZZZ			22:00																		
ZZZZZZ			22:00																		
460-112071-A-3 MS	1	T	22:00	X	X																
460-112071-A-3 MSD	1	T	22:00	X	X																
ZZZZZZ			22:00																		
ZZZZZZ			22:00																		
ZZZZZZ			22:00																		
ZZZZZZ			22:00																		
ZZZZZZ			22:00																		
ZZZZZZ			22:00																		
ZZZZZZ			22:00																		
ZZZZZZ			22:00																		

Prep Types
T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-112069-1

SDG No.: _____

Batch Number: 362364 Batch Start Date: 04/13/16 22:00 Batch Analyst: Armbruster, ChrisBatch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
460-111927-A-23 DU		Moisture	T	113	0.99 g	6.25 g	5.37 g		
460-112069-A-1	A3	Moisture	T	114	0.98 g	6.66 g	6.10 g		
460-112071-A-3 MS		Moisture	T	118	1.01 g	6.90 g	6.43 g		
460-112071-A-3 MSD		Moisture	T	119	1.01 g	6.90 g	6.43 g		

Batch Notes	
Balance ID	104 No Unit
Date samples were placed in the oven	4/13/16
Oven Temp In	109 Degrees C
Time samples were place in the oven	22:05
Date samples were removed from oven	4/14/16
Oven Temp Out	110 Degrees C
Time Samples were removed from oven	10:55
Oven ID	2
Thermometer ID	116941
Uncorrected In Temperature	109 Celsius
Uncorrected Out Temperature	110 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

Shipping and Receiving Documents

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY / 1

460-112069 Chain of Custody



New Durham Road
n, New Jersey 08817
3: (732) 549-3900 Fax: (732) 549-3679

Page 1 of 1

Name (for report and invoice) IAN HOFMANN		Sample Name (Printed) EPA-SE		State/Project Identification DEC-ELMONT 546 / SEE: E136150	
Company EPA		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 type="checkbox"/> Rush Charges Authorized For: 1 Week <input type="checkbox"/> 2 Week <input type="checkbox"/> Other <input checked="" type="checkbox"/> 24-Hr		Regulatory Program: <input type="checkbox"/> DKCP: <input type="checkbox"/>	
City ATLANTIC	State NY			LAB USE ONLY Job No: 112069 Project No:	
Phone 631-447-6460	Fax 631-447-6447			Sample Numbers 1	
Sample Identification A3	Date 4/13/16	Time 1210	Matrix S	No. of Cont. 1	
				EPA METHOD 8270 (TCL)	
				EPA METHOD 6010 (no Hg)	
1-DAY RUSH					
<p>Preservation Used: 1 = ICE, 2 = HCl, 3 = H₂SO₄, 4 = HNO₃, 5 = NaOH 6 = Other WATERS, 7 = Other</p> <p>Soil: 6 Water: 6</p>					
Special Instructions ALLEGANY B DECOVERIES REQUESTED					
Relinquished by Steph Gantz	Company EPA	Date / Time 4/13/16 1330	Received by [Signature]	Company TR	Water Metals Filtered (Yes/No)?
Relinquished by T. A	Company T. A	Date / Time 4/13/16 1610	Received by [Signature]	Company TR	
Relinquished by	Company	Date / Time	Received by	Company	
Relinquished by	Company	Date / Time	Received by	Company	

Massachusetts (M-NJ312), North Carolina (No. 578)

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

TAL-0016 (0715)

112069

**TestAmerica Edison
Receipt Temperature and pH Log**

Page of

Number of Coolers		Refrigerant		Cooler Temperatures	
Cooler #1	2	C	C	Cooler #4	C
Cooler #2	1	C	C	Cooler #5	C
Cooler #3	1	C	C	Cooler #6	C
				Cooler #7	C
				Cooler #8	C
				Cooler #9	C

[illegible]

Sample No(s). adjusted: _____
Preservative Name/Conc.: _____
Lot # of Preservative(s): _____

Volume of Preservative used (ml):

Lot # of Preservative(s):

Expiration Date:

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

EDS-WI-038 Rev 4 06/09/2014

Initials:

Date: 4/11/6

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 460-112069-1

Login Number: 112069

List Source: TestAmerica Edison

List Number: 1

Creator: Hall, Alonzo

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	2.0° C I R#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").	True	
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.