

## ANALYTICAL REPORT

Job Number: 460-109716-1

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  
5/19/2016 2:51 PM

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05/19/2016  
Revision: 1

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Job Number: 460-109716-1

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, flowing style. Below the signature is a solid horizontal line.

Approved for release.  
Melissa Haas  
Project Manager I  
5/19/2016 2:51 PM

Melissa Haas

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## **CASE NARRATIVE**

**Client: New York State D.E.C.**

**Project: DEC-Elmont546; Site / E130150**

**Report Number: 460-109716-1  
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: 460-109716-1. Details are as follows: The client requested that ICVs be reported for SVOC analysis.

### **RECEIPT**

The sample was received on 2/29/2016 6:50 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.

### **Receipt Exceptions**

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. No TAT recorded on the COC. Confirmed by PM to be 10-day TAT.

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 C1 (460-109716-1) was analyzed for Semivolatile organic compounds in accordance with EPA SW-846 Method 8270D. The samples were prepared on 03/09/2016 and analyzed on 03/11/2016.

A full list spike was utilized for this method. Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for five analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with batch 460-355001 had one analyte (Hexachlorocyclopentadiene) outside control limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

The continuing calibration verification (CCV) analyzed in batch 460-355488 was outside the method criteria for the following analyte(s): 2,4-Dinitrophenol and Hexachlorocyclopentadiene. 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.

The continuing calibration verification (CCV) analyzed in 460-355365 was outside the method criteria for the following analyte(s): Hexachlorocyclopentadiene. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The continuing calibration verification (CCV) analyzed in 460-355423 was outside the method criteria for the following analyte(s): Caprolactam. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

The following samples and the matrix spike/matrix spike duplicate (MS/MSD) associated with batch preparation batch 460-355001 and analytical batch 460-355488 were diluted due to the nature of the sample matrix : (460-109462-E-1-E), (460-109462-E-1-C MS) and

(460-109462-E-1-D MSD). As such, surrogate, spike recoveries and RPDs were diluted out and are not reported. Elevated reporting limits (RLs) are provided.

Hexachlorocyclopentadiene failed the recovery criteria high for LCS 460-355001/2-A.

Several analytes failed the recovery criteria low for the MS of sample 460-109462-1 in batch 460-355488. For the MSD of sample 460-109462-1 in batch 460-355488, Several analytes failed the recovery criteria low. Benzo[a]anthracene, Fluoranthene and Indeno[1,2,3-cd]pyrene failed the recovery criteria high. Also, Several analytes 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.

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 C1 (460-109716-1) was analyzed for Metals in accordance with EPA SW-846 Methods 6010C. The samples were prepared and analyzed on 03/04/2016.

Iron failed the recovery criteria low for the MS of sample 460-109595-3 in batch 460-354083.

Refer to the QC report for details.

Sample C1 (460-109716-1)[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 C1 (460-109716-1) was analyzed for percent solids/percent moisture in accordance with EPA Method CLPISM01.2 (Exhibit D) Modified. The samples were analyzed on 03/03/2016.

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: 460-109716-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 460-109716-1  | C1               | Solid  | 02/29/16 13:55 | 02/29/16 18:50 |

# Detection Summary

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

TestAmerica Job ID: 460-109716-1

Client Sample ID: C1

Lab Sample ID: 460-109716-1

| Analyte                     | Result | Qualifier | RL   | MDL  | Unit  | Dil | Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|------|------|-------|-----|-----|---|--------|-----------|
| 2-Methylnaphthalene         | 50     | J         | 380  | 8.3  | ug/Kg | 1   | ☼   |   | 8270D  | Total/NA  |
| Acenaphthene                | 410    |           | 380  | 9.1  | ug/Kg | 1   | ☼   |   | 8270D  | Total/NA  |
| Acenaphthylene              | 230    | J         | 380  | 9.7  | ug/Kg | 1   | ☼   |   | 8270D  | Total/NA  |
| Acetophenone                | 9.5    | J         | 380  | 8.2  | ug/Kg | 1   | ☼   |   | 8270D  | Total/NA  |
| Anthracene                  | 1200   |           | 380  | 36   | ug/Kg | 1   | ☼   |   | 8270D  | Total/NA  |
| Benzo[a]anthracene          | 3800   |           | 38   | 31   | ug/Kg | 1   | ☼   |   | 8270D  | Total/NA  |
| Benzo[a]pyrene              | 4000   |           | 38   | 11   | ug/Kg | 1   | ☼   |   | 8270D  | Total/NA  |
| Benzo[b]fluoranthene        | 4600   |           | 38   | 15   | ug/Kg | 1   | ☼   |   | 8270D  | Total/NA  |
| Benzo[g,h,i]perylene        | 2500   |           | 380  | 22   | ug/Kg | 1   | ☼   |   | 8270D  | Total/NA  |
| Benzo[k]fluoranthene        | 1800   |           | 38   | 16   | ug/Kg | 1   | ☼   |   | 8270D  | Total/NA  |
| Bis(2-ethylhexyl) phthalate | 310    | J         | 380  | 15   | ug/Kg | 1   | ☼   |   | 8270D  | Total/NA  |
| Carbazole                   | 180    | J         | 380  | 9.3  | ug/Kg | 1   | ☼   |   | 8270D  | Total/NA  |
| Chrysene                    | 3800   |           | 380  | 10   | ug/Kg | 1   | ☼   |   | 8270D  | Total/NA  |
| Dibenz(a,h)anthracene       | 680    |           | 38   | 20   | ug/Kg | 1   | ☼   |   | 8270D  | Total/NA  |
| Dibenzofuran                | 130    | J         | 380  | 11   | ug/Kg | 1   | ☼   |   | 8270D  | Total/NA  |
| Fluoranthene                | 7000   |           | 380  | 11   | ug/Kg | 1   | ☼   |   | 8270D  | Total/NA  |
| Fluorene                    | 360    | J         | 380  | 8.2  | ug/Kg | 1   | ☼   |   | 8270D  | Total/NA  |
| Indeno[1,2,3-cd]pyrene      | 2800   |           | 38   | 25   | ug/Kg | 1   | ☼   |   | 8270D  | Total/NA  |
| Naphthalene                 | 82     | J         | 380  | 9.6  | ug/Kg | 1   | ☼   |   | 8270D  | Total/NA  |
| Phenanthrene                | 3800   |           | 380  | 10   | ug/Kg | 1   | ☼   |   | 8270D  | Total/NA  |
| Pyrene                      | 6200   |           | 380  | 17   | ug/Kg | 1   | ☼   |   | 8270D  | Total/NA  |
| Aluminum                    | 4130   |           | 44.2 | 22.8 | mg/Kg | 4   | ☼   |   | 6010C  | Total/NA  |
| Arsenic                     | 3.0    | J         | 3.3  | 1.1  | mg/Kg | 4   | ☼   |   | 6010C  | Total/NA  |
| Barium                      | 93.7   |           | 44.2 | 1.6  | mg/Kg | 4   | ☼   |   | 6010C  | Total/NA  |
| Calcium                     | 17700  |           | 1110 | 65.5 | mg/Kg | 4   | ☼   |   | 6010C  | Total/NA  |
| Chromium                    | 9.6    |           | 2.2  | 1.1  | mg/Kg | 4   | ☼   |   | 6010C  | Total/NA  |
| Cobalt                      | 2.8    | J         | 11.1 | 1.3  | mg/Kg | 4   | ☼   |   | 6010C  | Total/NA  |
| Copper                      | 17.2   |           | 5.5  | 1.4  | mg/Kg | 4   | ☼   |   | 6010C  | Total/NA  |
| Iron                        | 8460   |           | 33.2 | 25.0 | mg/Kg | 4   | ☼   |   | 6010C  | Total/NA  |
| Lead                        | 344    |           | 2.2  | 0.87 | mg/Kg | 4   | ☼   |   | 6010C  | Total/NA  |
| Magnesium                   | 6520   |           | 1110 | 55.2 | mg/Kg | 4   | ☼   |   | 6010C  | Total/NA  |
| Manganese                   | 157    |           | 3.3  | 1.2  | mg/Kg | 4   | ☼   |   | 6010C  | Total/NA  |
| Nickel                      | 7.2    | J         | 8.8  | 1.6  | mg/Kg | 4   | ☼   |   | 6010C  | Total/NA  |
| Potassium                   | 314    | J         | 1110 | 33.5 | mg/Kg | 4   | ☼   |   | 6010C  | Total/NA  |
| Vanadium                    | 13.4   |           | 11.1 | 1.1  | mg/Kg | 4   | ☼   |   | 6010C  | Total/NA  |
| Zinc                        | 92.0   |           | 6.6  | 1.6  | mg/Kg | 4   | ☼   |   | 6010C  | Total/NA  |

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

## Method Summary

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

TestAmerica Job ID: 460-109716-1

| 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: 460-109716-1

**Client Sample ID: C1**

**Date Collected: 02/29/16 13:55**

**Date Received: 02/29/16 18:50**

**Lab Sample ID: 460-109716-1**

**Matrix: Solid**

**Percent Solids: 87.8**

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

| Analyte                            | Result      | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| 1,1'-Biphenyl                      | 380         | U         | 380 | 32  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 1,2,4,5-Tetrachlorobenzene         | 380         | U         | 380 | 28  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 2,2'-oxybis[1-chloropropane]       | 380         | U         | 380 | 15  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 2,3,4,6-Tetrachlorophenol          | 380         | U         | 380 | 35  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 2,4,5-Trichlorophenol              | 380         | U         | 380 | 37  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 2,4,6-Trichlorophenol              | 150         | U         | 150 | 11  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 2,4-Dichlorophenol                 | 150         | U         | 150 | 8.9 | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 2,4-Dimethylphenol                 | 380         | U         | 380 | 83  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 2,4-Dinitrophenol                  | 300         | U         | 300 | 280 | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 2,4-Dinitrotoluene                 | 76          | U         | 76  | 15  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 2,6-Dinitrotoluene                 | 76          | U         | 76  | 20  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 2-Chloronaphthalene                | 380         | U         | 380 | 8.5 | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 2-Chlorophenol                     | 380         | U         | 380 | 9.6 | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| <b>2-Methylnaphthalene</b>         | <b>50</b>   | <b>J</b>  | 380 | 8.3 | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 2-Methylphenol                     | 380         | U         | 380 | 16  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 2-Nitroaniline                     | 380         | U         | 380 | 12  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 2-Nitrophenol                      | 380         | U         | 380 | 13  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 3,3'-Dichlorobenzidine             | 150         | U         | 150 | 42  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 3-Nitroaniline                     | 380         | U         | 380 | 11  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 4,6-Dinitro-2-methylphenol         | 300         | U         | 300 | 100 | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 4-Bromophenyl phenyl ether         | 380         | U         | 380 | 12  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 4-Chloro-3-methylphenol            | 380         | U         | 380 | 16  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 4-Chloroaniline                    | 380         | U         | 380 | 9.7 | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 4-Chlorophenyl phenyl ether        | 380         | U         | 380 | 11  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 4-Methylphenol                     | 380         | U         | 380 | 10  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 4-Nitroaniline                     | 380         | U         | 380 | 14  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 4-Nitrophenol                      | 760         | U         | 760 | 180 | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| <b>Acenaphthene</b>                | <b>410</b>  |           | 380 | 9.1 | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| <b>Acenaphthylene</b>              | <b>230</b>  | <b>J</b>  | 380 | 9.7 | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| <b>Acetophenone</b>                | <b>9.5</b>  | <b>J</b>  | 380 | 8.2 | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| <b>Anthracene</b>                  | <b>1200</b> |           | 380 | 36  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| Atrazine                           | 150         | U         | 150 | 17  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| Benzaldehyde                       | 380         | U         | 380 | 29  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| <b>Benzo[a]anthracene</b>          | <b>3800</b> |           | 38  | 31  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| <b>Benzo[a]pyrene</b>              | <b>4000</b> |           | 38  | 11  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| <b>Benzo[b]fluoranthene</b>        | <b>4600</b> |           | 38  | 15  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| <b>Benzo[g,h,i]perylene</b>        | <b>2500</b> |           | 380 | 22  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| <b>Benzo[k]fluoranthene</b>        | <b>1800</b> |           | 38  | 16  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| Bis(2-chloroethoxy)methane         | 380         | U         | 380 | 12  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| Bis(2-chloroethyl)ether            | 38          | U         | 38  | 8.9 | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| <b>Bis(2-ethylhexyl) phthalate</b> | <b>310</b>  | <b>J</b>  | 380 | 15  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| Butyl benzyl phthalate             | 380         | U         | 380 | 12  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| Caprolactam                        | 380         | U         | 380 | 27  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| <b>Carbazole</b>                   | <b>180</b>  | <b>J</b>  | 380 | 9.3 | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| <b>Chrysene</b>                    | <b>3800</b> |           | 380 | 10  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| <b>Dibenz(a,h)anthracene</b>       | <b>680</b>  |           | 38  | 20  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| <b>Dibenzofuran</b>                | <b>130</b>  | <b>J</b>  | 380 | 11  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| Diethyl phthalate                  | 380         | U         | 380 | 11  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| Dimethyl phthalate                 | 380         | U         | 380 | 11  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |

TestAmerica Edison

# Client Sample Results

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

TestAmerica Job ID: 460-109716-1

**Client Sample ID: C1**

**Date Collected: 02/29/16 13:55**

**Date Received: 02/29/16 18:50**

**Lab Sample ID: 460-109716-1**

**Matrix: Solid**

**Percent Solids: 87.8**

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

| Analyte                       | Result       | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-------------------------------|--------------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Di-n-butyl phthalate          | 380          | U         | 380 | 11  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| Di-n-octyl phthalate          | 380          | U         | 380 | 19  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| <b>Fluoranthene</b>           | <b>7000</b>  |           | 380 | 11  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| <b>Fluorene</b>               | <b>360 J</b> |           | 380 | 8.2 | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| Hexachlorobenzene             | 38           | U         | 38  | 15  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| Hexachlorobutadiene           | 76           | U         | 76  | 11  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| Hexachlorocyclopentadiene     | 380          | U *       | 380 | 23  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| Hexachloroethane              | 38           | U         | 38  | 14  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| <b>Indeno[1,2,3-cd]pyrene</b> | <b>2800</b>  |           | 38  | 25  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| Isophorone                    | 150          | U         | 150 | 8.1 | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| <b>Naphthalene</b>            | <b>82 J</b>  |           | 380 | 9.6 | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| Nitrobenzene                  | 38           | U         | 38  | 12  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| N-Nitrosodi-n-propylamine     | 38           | U         | 38  | 13  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| N-Nitrosodiphenylamine        | 380          | U         | 380 | 34  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| Pentachlorophenol             | 300          | U         | 300 | 45  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| <b>Phenanthrene</b>           | <b>3800</b>  |           | 380 | 10  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| Phenol                        | 380          | U         | 380 | 12  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| <b>Pyrene</b>                 | <b>6200</b>  |           | 380 | 17  | ug/Kg | ☼ | 03/09/16 13:54 | 03/11/16 11:47 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 51        |           | 10 - 95  | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 2-Fluorobiphenyl            | 70        |           | 27 - 84  | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| 2-Fluorophenol (Surr)       | 62        |           | 21 - 84  | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| Nitrobenzene-d5 (Surr)      | 68        |           | 28 - 92  | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| Phenol-d5 (Surr)            | 67        |           | 22 - 88  | 03/09/16 13:54 | 03/11/16 11:47 | 1       |
| Terphenyl-d14 (Surr)        | 66        |           | 16 - 114 | 03/09/16 13:54 | 03/11/16 11:47 | 1       |

## Method: 6010C - Metals (ICP)

| Analyte          | Result       | Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------|--------------|-----------|------|------|-------|---|----------------|----------------|---------|
| <b>Aluminum</b>  | <b>4130</b>  |           | 44.2 | 22.8 | mg/Kg | ☼ | 03/04/16 07:41 | 03/04/16 16:37 | 4       |
| Antimony         | 4.4          | U         | 4.4  | 1.7  | mg/Kg | ☼ | 03/04/16 07:41 | 03/04/16 16:37 | 4       |
| <b>Arsenic</b>   | <b>3.0 J</b> |           | 3.3  | 1.1  | mg/Kg | ☼ | 03/04/16 07:41 | 03/04/16 16:37 | 4       |
| <b>Barium</b>    | <b>93.7</b>  |           | 44.2 | 1.6  | mg/Kg | ☼ | 03/04/16 07:41 | 03/04/16 16:37 | 4       |
| Beryllium        | 0.44         | U         | 0.44 | 0.37 | mg/Kg | ☼ | 03/04/16 07:41 | 03/04/16 16:37 | 4       |
| Cadmium          | 0.88         | U         | 0.88 | 0.46 | mg/Kg | ☼ | 03/04/16 07:41 | 03/04/16 16:37 | 4       |
| <b>Calcium</b>   | <b>17700</b> |           | 1110 | 65.5 | mg/Kg | ☼ | 03/04/16 07:41 | 03/04/16 16:37 | 4       |
| <b>Chromium</b>  | <b>9.6</b>   |           | 2.2  | 1.1  | mg/Kg | ☼ | 03/04/16 07:41 | 03/04/16 16:37 | 4       |
| <b>Cobalt</b>    | <b>2.8 J</b> |           | 11.1 | 1.3  | mg/Kg | ☼ | 03/04/16 07:41 | 03/04/16 16:37 | 4       |
| <b>Copper</b>    | <b>17.2</b>  |           | 5.5  | 1.4  | mg/Kg | ☼ | 03/04/16 07:41 | 03/04/16 16:37 | 4       |
| <b>Iron</b>      | <b>8460</b>  |           | 33.2 | 25.0 | mg/Kg | ☼ | 03/04/16 07:41 | 03/04/16 16:37 | 4       |
| <b>Lead</b>      | <b>344</b>   |           | 2.2  | 0.87 | mg/Kg | ☼ | 03/04/16 07:41 | 03/04/16 16:37 | 4       |
| <b>Magnesium</b> | <b>6520</b>  |           | 1110 | 55.2 | mg/Kg | ☼ | 03/04/16 07:41 | 03/04/16 16:37 | 4       |
| <b>Manganese</b> | <b>157</b>   |           | 3.3  | 1.2  | mg/Kg | ☼ | 03/04/16 07:41 | 03/04/16 16:37 | 4       |
| <b>Nickel</b>    | <b>7.2 J</b> |           | 8.8  | 1.6  | mg/Kg | ☼ | 03/04/16 07:41 | 03/04/16 16:37 | 4       |
| <b>Potassium</b> | <b>314 J</b> |           | 1110 | 33.5 | mg/Kg | ☼ | 03/04/16 07:41 | 03/04/16 16:37 | 4       |
| Selenium         | 4.4          | U         | 4.4  | 1.5  | mg/Kg | ☼ | 03/04/16 07:41 | 03/04/16 16:37 | 4       |
| Silver           | 2.2          | U         | 2.2  | 0.39 | mg/Kg | ☼ | 03/04/16 07:41 | 03/04/16 16:37 | 4       |
| Sodium           | 1110         | U         | 1110 | 74.9 | mg/Kg | ☼ | 03/04/16 07:41 | 03/04/16 16:37 | 4       |
| Thallium         | 4.4          | U         | 4.4  | 2.0  | mg/Kg | ☼ | 03/04/16 07:41 | 03/04/16 16:37 | 4       |
| <b>Vanadium</b>  | <b>13.4</b>  |           | 11.1 | 1.1  | mg/Kg | ☼ | 03/04/16 07:41 | 03/04/16 16:37 | 4       |

TestAmerica Edison

# Client Sample Results

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

TestAmerica Job ID: 460-109716-1

**Client Sample ID: C1**

**Date Collected: 02/29/16 13:55**

**Date Received: 02/29/16 18:50**

**Lab Sample ID: 460-109716-1**

**Matrix: Solid**

**Percent Solids: 87.8**

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

| Analyte | Result | Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|--------|-----------|-----|-----|-------|---|----------------|----------------|---------|
| Zinc    | 92.0   |           | 6.6 | 1.6 | mg/Kg | ☼ | 03/04/16 07:41 | 03/04/16 16:37 | 4       |



# Surrogate Summary

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

TestAmerica Job ID: 460-109716-1

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

Matrix: Solid

Prep Type: Total/NA

|                           |                        | Percent Surrogate Recovery (Acceptance Limits) |                |                |                |                |                 |
|---------------------------|------------------------|--|----------------|----------------|----------------|----------------|-----------------|
| Lab Sample ID             | Client Sample ID       | TBP<br>(10-95)                                 | FBP<br>(27-84) | 2FP<br>(21-84) | NBZ<br>(28-92) | PHL<br>(22-88) | TPH<br>(16-114) |
| 460-109462-E-1-C MS - DL  | Matrix Spike           | 50   | 61             | 51             | 56             | 53             | 51              |
| 460-109462-E-1-D MSD - DL | Matrix Spike Duplicate | 56   | 68             | 56             | 63             | 57             | 51              |
| 460-109716-1              | C1                     | 51   | 70             | 62             | 68             | 67             | 66              |
| LCS 460-355001/2-A        | Lab Control Sample     | 86   | 76             | 71             | 75             | 75             | 88              |
| LCS 460-355001/3-A        | Lab Control Sample     | 83   | 79             | 74             | 81             | 78             | 89              |
| MB 460-355001/1-A         | Method Blank           | 79   | 72             | 68             | 73             | 73             | 81              |

### 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: 460-109716-1

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

Lab Sample ID: MB 460-355001/1-A

Matrix: Solid

Analysis Batch: 355488

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 355001

| Analyte                      | MB Result | MB Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------|-----------|--------------|-----|-----|-------|---|----------------|----------------|---------|
| 1,1'-Biphenyl                | 330       | U            | 330 | 28  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 1,2,4,5-Tetrachlorobenzene   | 330       | U            | 330 | 25  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 2,2'-oxybis[1-chloropropane] | 330       | U            | 330 | 14  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 2,3,4,6-Tetrachlorophenol    | 330       | U            | 330 | 31  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 2,4,5-Trichlorophenol        | 330       | U            | 330 | 33  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 2,4,6-Trichlorophenol        | 130       | U            | 130 | 9.4 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 2,4-Dichlorophenol           | 130       | U            | 130 | 7.8 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 2,4-Dimethylphenol           | 330       | U            | 330 | 73  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 2,4-Dinitrophenol            | 270       | U            | 270 | 250 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 2,4-Dinitrotoluene           | 67        | U            | 67  | 13  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 2,6-Dinitrotoluene           | 67        | U            | 67  | 18  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 2-Chloronaphthalene          | 330       | U            | 330 | 7.5 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 2-Chlorophenol               | 330       | U            | 330 | 8.4 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 2-Methylnaphthalene          | 330       | U            | 330 | 7.3 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 2-Methylphenol               | 330       | U            | 330 | 14  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 2-Nitroaniline               | 330       | U            | 330 | 11  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 2-Nitrophenol                | 330       | U            | 330 | 11  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 3,3'-Dichlorobenzidine       | 130       | U            | 130 | 37  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 3-Nitroaniline               | 330       | U            | 330 | 9.8 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 4,6-Dinitro-2-methylphenol   | 270       | U            | 270 | 88  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 4-Bromophenyl phenyl ether   | 330       | U            | 330 | 10  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 4-Chloro-3-methylphenol      | 330       | U            | 330 | 14  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 4-Chloroaniline              | 330       | U            | 330 | 8.5 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 4-Chlorophenyl phenyl ether  | 330       | U            | 330 | 9.9 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 4-Methylphenol               | 330       | U            | 330 | 9.0 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 4-Nitroaniline               | 330       | U            | 330 | 13  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 4-Nitrophenol                | 670       | U            | 670 | 160 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Acenaphthene                 | 330       | U            | 330 | 8.0 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Acenaphthylene               | 330       | U            | 330 | 8.5 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Acetophenone                 | 330       | U            | 330 | 7.2 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Anthracene                   | 330       | U            | 330 | 31  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Atrazine                     | 130       | U            | 130 | 15  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Benzaldehyde                 | 330       | U            | 330 | 25  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Benzo[a]anthracene           | 33        | U            | 33  | 28  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Benzo[a]pyrene               | 33        | U            | 33  | 10  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Benzo[b]fluoranthene         | 33        | U            | 33  | 13  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Benzo[g,h,i]perylene         | 330       | U            | 330 | 19  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Benzo[k]fluoranthene         | 33        | U            | 33  | 14  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Bis(2-chloroethoxy)methane   | 330       | U            | 330 | 10  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Bis(2-chloroethyl)ether      | 33        | U            | 33  | 7.8 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Bis(2-ethylhexyl) phthalate  | 330       | U            | 330 | 13  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Butyl benzyl phthalate       | 330       | U            | 330 | 10  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Caprolactam                  | 330       | U            | 330 | 24  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Carbazole                    | 330       | U            | 330 | 8.2 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Chrysene                     | 330       | U            | 330 | 9.0 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Dibenz(a,h)anthracene        | 33        | U            | 33  | 17  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Dibenzofuran                 | 330       | U            | 330 | 10  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Diethyl phthalate            | 330       | U            | 330 | 9.4 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |

TestAmerica Edison

# QC Sample Results

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

TestAmerica Job ID: 460-109716-1

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

Lab Sample ID: MB 460-355001/1-A

Matrix: Solid

Analysis Batch: 355488

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 355001

| Analyte                   | MB Result | MB Qualifier | RL  | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------------|-----------|--------------|-----|-----|-------|---|----------------|----------------|---------|
| Dimethyl phthalate        | 330       | U            | 330 | 9.6 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Di-n-butyl phthalate      | 330       | U            | 330 | 9.9 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Di-n-octyl phthalate      | 330       | U            | 330 | 17  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Fluoranthene              | 330       | U            | 330 | 9.8 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Fluorene                  | 330       | U            | 330 | 7.2 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Hexachlorobenzene         | 33        | U            | 33  | 13  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Hexachlorobutadiene       | 67        | U            | 67  | 9.3 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Hexachlorocyclopentadiene | 330       | U            | 330 | 21  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Hexachloroethane          | 33        | U            | 33  | 12  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Indeno[1,2,3-cd]pyrene    | 33        | U            | 33  | 22  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Isophorone                | 130       | U            | 130 | 7.1 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Naphthalene               | 330       | U            | 330 | 8.4 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Nitrobenzene              | 33        | U            | 33  | 10  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| N-Nitrosodi-n-propylamine | 33        | U            | 33  | 11  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| N-Nitrosodiphenylamine    | 330       | U            | 330 | 30  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Pentachlorophenol         | 270       | U            | 270 | 40  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Phenanthrene              | 330       | U            | 330 | 8.8 | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Phenol                    | 330       | U            | 330 | 11  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Pyrene                    | 330       | U            | 330 | 15  | ug/Kg |   | 03/09/16 13:54 | 03/11/16 09:33 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 2,4,6-Tribromophenol (Surr) | 79           |              | 10 - 95  | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 2-Fluorobiphenyl            | 72           |              | 27 - 84  | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| 2-Fluorophenol (Surr)       | 68           |              | 21 - 84  | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Nitrobenzene-d5 (Surr)      | 73           |              | 28 - 92  | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Phenol-d5 (Surr)            | 73           |              | 22 - 88  | 03/09/16 13:54 | 03/11/16 09:33 | 1       |
| Terphenyl-d14 (Surr)        | 81           |              | 16 - 114 | 03/09/16 13:54 | 03/11/16 09:33 | 1       |

Lab Sample ID: LCS 460-355001/2-A

Matrix: Solid

Analysis Batch: 355365

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 355001

| Analyte                      | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| 1,1'-Biphenyl                | 3330        | 2560       |               | ug/Kg |   | 77   | 64 - 103     |
| 1,2,4,5-Tetrachlorobenzene   | 3330        | 2570       |               | ug/Kg |   | 77   | 62 - 109     |
| 2,2'-oxybis[1-chloropropane] | 3330        | 2230       |               | ug/Kg |   | 67   | 42 - 119     |
| 2,3,4,6-Tetrachlorophenol    | 3330        | 2870       |               | ug/Kg |   | 86   | 57 - 113     |
| 2,4,5-Trichlorophenol        | 3330        | 2660       |               | ug/Kg |   | 80   | 59 - 105     |
| 2,4,6-Trichlorophenol        | 3330        | 2790       |               | ug/Kg |   | 84   | 61 - 107     |
| 2,4-Dichlorophenol           | 3330        | 2540       |               | ug/Kg |   | 76   | 59 - 99      |
| 2,4-Dimethylphenol           | 3330        | 2580       |               | ug/Kg |   | 77   | 60 - 98      |
| 2,4-Dinitrophenol            | 6670        | 4920       |               | ug/Kg |   | 74   | 26 - 137     |
| 2,4-Dinitrotoluene           | 3330        | 2830       |               | ug/Kg |   | 85   | 61 - 118     |
| 2,6-Dinitrotoluene           | 3330        | 2780       |               | ug/Kg |   | 83   | 63 - 112     |
| 2-Chloronaphthalene          | 3330        | 2550       |               | ug/Kg |   | 76   | 63 - 102     |
| 2-Chlorophenol               | 3330        | 2580       |               | ug/Kg |   | 77   | 58 - 95      |
| 2-Methylnaphthalene          | 3330        | 2590       |               | ug/Kg |   | 78   | 64 - 102     |
| 2-Methylphenol               | 3330        | 2700       |               | ug/Kg |   | 81   | 56 - 99      |

TestAmerica Edison

# QC Sample Results

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

TestAmerica Job ID: 460-109716-1

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

Lab Sample ID: LCS 460-355001/2-A

Matrix: Solid

Analysis Batch: 355365

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 355001

| Analyte                     | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|-----------------------------|-------------|------------|---------------|-------|---|------|--------------|
| 2-Nitroaniline              | 3330        | 2570       |               | ug/Kg |   | 77   | 46 - 113     |
| 2-Nitrophenol               | 3330        | 2580       |               | ug/Kg |   | 77   | 63 - 103     |
| 3,3'-Dichlorobenzidine      | 3330        | 1340       |               | ug/Kg |   | 40   | 18 - 92      |
| 3-Nitroaniline              | 3330        | 1500       |               | ug/Kg |   | 45   | 23 - 89      |
| 4,6-Dinitro-2-methylphenol  | 6670        | 5360       |               | ug/Kg |   | 80   | 51 - 124     |
| 4-Bromophenyl phenyl ether  | 3330        | 2870       |               | ug/Kg |   | 86   | 65 - 114     |
| 4-Chloro-3-methylphenol     | 3330        | 2800       |               | ug/Kg |   | 84   | 58 - 108     |
| 4-Chloroaniline             | 3330        | 1110       |               | ug/Kg |   | 33   | 10 - 82      |
| 4-Chlorophenyl phenyl ether | 3330        | 2780       |               | ug/Kg |   | 83   | 63 - 107     |
| 4-Methylphenol              | 3330        | 2750       |               | ug/Kg |   | 82   | 53 - 103     |
| 4-Nitroaniline              | 3330        | 2430       |               | ug/Kg |   | 73   | 44 - 109     |
| 4-Nitrophenol               | 6670        | 6240       |               | ug/Kg |   | 94   | 45 - 125     |
| Acenaphthene                | 3330        | 2640       |               | ug/Kg |   | 79   | 59 - 102     |
| Acenaphthylene              | 3330        | 2720       |               | ug/Kg |   | 82   | 63 - 102     |
| Acetophenone                | 3330        | 2710       |               | ug/Kg |   | 81   | 56 - 107     |
| Anthracene                  | 3330        | 2890       |               | ug/Kg |   | 87   | 66 - 105     |
| Benzo[a]anthracene          | 3330        | 2730       |               | ug/Kg |   | 82   | 65 - 106     |
| Benzo[a]pyrene              | 3330        | 2840       |               | ug/Kg |   | 85   | 68 - 111     |
| Benzo[b]fluoranthene        | 3330        | 2870       |               | ug/Kg |   | 86   | 67 - 116     |
| Benzo[g,h,i]perylene        | 3330        | 2360       |               | ug/Kg |   | 71   | 49 - 124     |
| Benzo[k]fluoranthene        | 3330        | 2770       |               | ug/Kg |   | 83   | 65 - 114     |
| Bis(2-chloroethoxy)methane  | 3330        | 2620       |               | ug/Kg |   | 78   | 61 - 102     |
| Bis(2-chloroethyl)ether     | 3330        | 2640       |               | ug/Kg |   | 79   | 58 - 102     |
| Bis(2-ethylhexyl) phthalate | 3330        | 3000       |               | ug/Kg |   | 90   | 60 - 125     |
| Butyl benzyl phthalate      | 3330        | 2950       |               | ug/Kg |   | 88   | 62 - 123     |
| Carbazole                   | 3330        | 2730       |               | ug/Kg |   | 82   | 62 - 107     |
| Chrysene                    | 3330        | 2850       |               | ug/Kg |   | 85   | 64 - 105     |
| Dibenz(a,h)anthracene       | 3330        | 2620       |               | ug/Kg |   | 79   | 54 - 126     |
| Dibenzofuran                | 3330        | 2660       |               | ug/Kg |   | 80   | 62 - 102     |
| Diethyl phthalate           | 3330        | 2860       |               | ug/Kg |   | 86   | 61 - 110     |
| Dimethyl phthalate          | 3330        | 2770       |               | ug/Kg |   | 83   | 64 - 108     |
| Di-n-butyl phthalate        | 3330        | 2890       |               | ug/Kg |   | 87   | 62 - 114     |
| Di-n-octyl phthalate        | 3330        | 3210       |               | ug/Kg |   | 96   | 52 - 137     |
| Fluoranthene                | 3330        | 2730       |               | ug/Kg |   | 82   | 59 - 109     |
| Fluorene                    | 3330        | 2750       |               | ug/Kg |   | 82   | 65 - 108     |
| Hexachlorobenzene           | 3330        | 2820       |               | ug/Kg |   | 85   | 65 - 117     |
| Hexachlorobutadiene         | 3330        | 2580       |               | ug/Kg |   | 77   | 60 - 105     |
| Hexachlorocyclopentadiene   | 3330        | 4050       | *             | ug/Kg |   | 121  | 37 - 119     |
| Hexachloroethane            | 3330        | 2480       |               | ug/Kg |   | 75   | 60 - 94      |
| Indeno[1,2,3-cd]pyrene      | 3330        | 2690       |               | ug/Kg |   | 81   | 50 - 134     |
| Isophorone                  | 3330        | 2760       |               | ug/Kg |   | 83   | 60 - 102     |
| Naphthalene                 | 3330        | 2580       |               | ug/Kg |   | 77   | 64 - 99      |
| Nitrobenzene                | 3330        | 2620       |               | ug/Kg |   | 79   | 59 - 102     |
| N-Nitrosodi-n-propylamine   | 3330        | 2920       |               | ug/Kg |   | 88   | 56 - 112     |
| N-Nitrosodiphenylamine      | 3330        | 2760       |               | ug/Kg |   | 83   | 71 - 119     |
| Pentachlorophenol           | 6670        | 5720       |               | ug/Kg |   | 86   | 47 - 115     |
| Phenanthrene                | 3330        | 2720       |               | ug/Kg |   | 82   | 66 - 105     |
| Phenol                      | 3330        | 2490       |               | ug/Kg |   | 75   | 55 - 99      |

TestAmerica Edison

# QC Sample Results

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

TestAmerica Job ID: 460-109716-1

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

Lab Sample ID: LCS 460-355001/2-A

Matrix: Solid

Analysis Batch: 355365

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 355001

| Analyte                     | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec | Limits   |
|-----------------------------|---------------|---------------|---------------|-------|---|------|----------|
| Pyrene                      | 3330          | 2870          |               | ug/Kg |   | 86   | 55 - 126 |
| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits        |       |   |      |          |
| 2,4,6-Tribromophenol (Surr) | 86            |               | 10 - 95       |       |   |      |          |
| 2-Fluorobiphenyl            | 76            |               | 27 - 84       |       |   |      |          |
| 2-Fluorophenol (Surr)       | 71            |               | 21 - 84       |       |   |      |          |
| Nitrobenzene-d5 (Surr)      | 75            |               | 28 - 92       |       |   |      |          |
| Phenol-d5 (Surr)            | 75            |               | 22 - 88       |       |   |      |          |
| Terphenyl-d14 (Surr)        | 88            |               | 16 - 114      |       |   |      |          |

Lab Sample ID: LCS 460-355001/3-A

Matrix: Solid

Analysis Batch: 355488

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 355001

| Analyte                     | Spike Added   | LCS Result    | LCS Qualifier | Unit  | D | %Rec | Limits   |
|-----------------------------|---------------|---------------|---------------|-------|---|------|----------|
| Atrazine                    | 6670          | 5740          |               | ug/Kg |   | 86   | 41 - 116 |
| Benzaldehyde                | 6670          | 5080          |               | ug/Kg |   | 76   | 55 - 116 |
| Caprolactam                 | 6670          | 6720          |               | ug/Kg |   | 101  | 44 - 129 |
| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits        |       |   |      |          |
| 2,4,6-Tribromophenol (Surr) | 83            |               | 10 - 95       |       |   |      |          |
| 2-Fluorobiphenyl            | 79            |               | 27 - 84       |       |   |      |          |
| 2-Fluorophenol (Surr)       | 74            |               | 21 - 84       |       |   |      |          |
| Nitrobenzene-d5 (Surr)      | 81            |               | 28 - 92       |       |   |      |          |
| Phenol-d5 (Surr)            | 78            |               | 22 - 88       |       |   |      |          |
| Terphenyl-d14 (Surr)        | 89            |               | 16 - 114      |       |   |      |          |

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

Lab Sample ID: 460-109462-E-1-C MS

Matrix: Solid

Analysis Batch: 355488

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 355001

| Analyte                           | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | Limits   |
|-----------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| 1,1'-Biphenyl - DL                | 3500          | U                | 3550        | 2180      | J *          | ug/Kg | ☼ | 61   | 64 - 103 |
| 1,2,4,5-Tetrachlorobenzene - DL   | 3500          | U                | 3550        | 2140      | J *          | ug/Kg | ☼ | 60   | 62 - 109 |
| 2,2'-oxybis[1-chloropropane] - DL | 3500          | U                | 3550        | 1730      | J            | ug/Kg | ☼ | 49   | 42 - 119 |
| 2,3,4,6-Tetrachlorophenol - DL    | 3500          | U                | 3550        | 1650      | J *          | ug/Kg | ☼ | 47   | 57 - 113 |
| 2,4,5-Trichlorophenol - DL        | 3500          | U                | 3550        | 1880      | J *          | ug/Kg | ☼ | 53   | 59 - 105 |
| 2,4,6-Trichlorophenol - DL        | 1400          | U                | 3550        | 2240      |              | ug/Kg | ☼ | 63   | 61 - 107 |
| 2,4-Dichlorophenol - DL           | 1400          | U                | 3550        | 1920      | *            | ug/Kg | ☼ | 54   | 59 - 99  |
| 2,4-Dimethylphenol - DL           | 3500          | U                | 3550        | 2100      | J *          | ug/Kg | ☼ | 59   | 60 - 98  |
| 2,4-Dinitrophenol - DL            | 2800          | U                | 7110        | 2800      | U *          | ug/Kg | ☼ | 0    | 26 - 137 |
| 2,4-Dinitrotoluene - DL           | 710           | U                | 3550        | 2200      |              | ug/Kg | ☼ | 62   | 61 - 118 |
| 2,6-Dinitrotoluene - DL           | 710           | U                | 3550        | 2690      |              | ug/Kg | ☼ | 76   | 63 - 112 |
| 2-Chloronaphthalene - DL          | 3500          | U                | 3550        | 2140      | J *          | ug/Kg | ☼ | 60   | 63 - 102 |
| 2-Chlorophenol - DL               | 3500          | U                | 3550        | 1870      | J *          | ug/Kg | ☼ | 53   | 58 - 95  |

TestAmerica Edison

# QC Sample Results

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

TestAmerica Job ID: 460-109716-1

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

Lab Sample ID: 460-109462-E-1-C MS

Matrix: Solid

Analysis Batch: 355488

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 355001

| Analyte                          | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | Limits   |
|----------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| 2-Methylnaphthalene - DL         | 3500          | U                | 3550        | 1850      | J *          | ug/Kg | ☼ | 52   | 64 - 102 |
| 2-Methylphenol - DL              | 3500          | U                | 3550        | 1940      | J *          | ug/Kg | ☼ | 55   | 56 - 99  |
| 2-Nitroaniline - DL              | 3500          | U                | 3550        | 2050      | J            | ug/Kg | ☼ | 58   | 46 - 113 |
| 2-Nitrophenol - DL               | 3500          | U                | 3550        | 1750      | J *          | ug/Kg | ☼ | 49   | 63 - 103 |
| 3,3'-Dichlorobenzidine - DL      | 1400          | U                | 3550        | 1350      | J            | ug/Kg | ☼ | 38   | 18 - 92  |
| 3-Nitroaniline - DL              | 3500          | U                | 3550        | 2200      | J            | ug/Kg | ☼ | 62   | 23 - 89  |
| 4,6-Dinitro-2-methylphenol - DL  | 2800          | U                | 7110        | 2800      | U *          | ug/Kg | ☼ | 0    | 51 - 124 |
| 4-Bromophenyl phenyl ether - DL  | 3500          | U                | 3550        | 2350      | J            | ug/Kg | ☼ | 66   | 65 - 114 |
| 4-Chloro-3-methylphenol - DL     | 3500          | U                | 3550        | 1890      | J *          | ug/Kg | ☼ | 53   | 58 - 108 |
| 4-Chloroaniline - DL             | 3500          | U                | 3550        | 964       | J            | ug/Kg | ☼ | 27   | 10 - 82  |
| 4-Chlorophenyl phenyl ether - DL | 3500          | U                | 3550        | 1940      | J *          | ug/Kg | ☼ | 55   | 63 - 107 |
| 4-Methylphenol - DL              | 3500          | U                | 3550        | 1880      | J            | ug/Kg | ☼ | 53   | 53 - 103 |
| 4-Nitroaniline - DL              | 3500          | U                | 3550        | 1760      | J            | ug/Kg | ☼ | 49   | 44 - 109 |
| 4-Nitrophenol - DL               | 7100          | U                | 7110        | 3690      | J            | ug/Kg | ☼ | 52   | 45 - 125 |
| Acenaphthene - DL                | 3500          | U                | 3550        | 2020      | J *          | ug/Kg | ☼ | 57   | 59 - 102 |
| Acenaphthylene - DL              | 3500          | U                | 3550        | 2150      | J *          | ug/Kg | ☼ | 61   | 63 - 102 |
| Acetophenone - DL                | 3500          | U                | 3550        | 1840      | J *          | ug/Kg | ☼ | 52   | 56 - 107 |
| Anthracene - DL                  | 3500          | U                | 3550        | 2010      | J *          | ug/Kg | ☼ | 56   | 66 - 105 |
| Atrazine - DL                    | 1400          | U                | 7110        | 4270      |              | ug/Kg | ☼ | 60   | 41 - 116 |
| Benzaldehyde - DL                | 3500          | U                | 7110        | 3200      | J *          | ug/Kg | ☼ | 45   | 55 - 116 |
| Benzo[a]anthracene - DL          | 350           | U                | 3550        | 2500      |              | ug/Kg | ☼ | 70   | 65 - 106 |
| Benzo[a]pyrene - DL              | 1700          |                  | 3550        | 3250      | *            | ug/Kg | ☼ | 45   | 68 - 111 |
| Benzo[b]fluoranthene - DL        | 2400          |                  | 3550        | 3440      | *            | ug/Kg | ☼ | 30   | 67 - 116 |
| Benzo[g,h,i]perylene - DL        | 1700          | J                | 3550        | 4030      |              | ug/Kg | ☼ | 66   | 49 - 124 |
| Benzo[k]fluoranthene - DL        | 690           |                  | 3550        | 2260      | *            | ug/Kg | ☼ | 44   | 65 - 114 |
| Bis(2-chloroethoxy)methane - DL  | 3500          | U                | 3550        | 2080      | J *          | ug/Kg | ☼ | 58   | 61 - 102 |
| Bis(2-chloroethyl)ether - DL     | 350           | U                | 3550        | 1760      | *            | ug/Kg | ☼ | 50   | 58 - 102 |
| Bis(2-ethylhexyl) phthalate - DL | 3500          | U                | 3550        | 2090      | J *          | ug/Kg | ☼ | 59   | 60 - 125 |
| Butyl benzyl phthalate - DL      | 3500          | U                | 3550        | 2430      | J            | ug/Kg | ☼ | 68   | 62 - 123 |
| Caprolactam - DL                 | 3500          | U                | 7110        | 2770      | J *          | ug/Kg | ☼ | 39   | 44 - 129 |
| Carbazole - DL                   | 3500          | U                | 3550        | 2140      | J *          | ug/Kg | ☼ | 60   | 62 - 107 |
| Chrysene - DL                    | 1400          | J                | 3550        | 3120      | J *          | ug/Kg | ☼ | 49   | 64 - 105 |
| Dibenz(a,h)anthracene - DL       | 460           |                  | 3550        | 3140      |              | ug/Kg | ☼ | 75   | 54 - 126 |
| Dibenzofuran - DL                | 3500          | U                | 3550        | 1990      | J *          | ug/Kg | ☼ | 56   | 62 - 102 |
| Diethyl phthalate - DL           | 3500          | U                | 3550        | 2340      | J            | ug/Kg | ☼ | 66   | 61 - 110 |
| Dimethyl phthalate - DL          | 3500          | U                | 3550        | 2570      | J            | ug/Kg | ☼ | 72   | 64 - 108 |
| Di-n-butyl phthalate - DL        | 3500          | U                | 3550        | 2230      | J            | ug/Kg | ☼ | 63   | 62 - 114 |
| Di-n-octyl phthalate - DL        | 3500          | U                | 3550        | 1670      | J *          | ug/Kg | ☼ | 47   | 52 - 137 |
| Fluoranthene - DL                | 1200          | J                | 3550        | 2810      | J *          | ug/Kg | ☼ | 46   | 59 - 109 |
| Fluorene - DL                    | 3500          | U                | 3550        | 1880      | J *          | ug/Kg | ☼ | 53   | 65 - 108 |
| Hexachlorobenzene - DL           | 350           | U                | 3550        | 1950      | *            | ug/Kg | ☼ | 55   | 65 - 117 |
| Hexachlorobutadiene - DL         | 710           | U                | 3550        | 1970      | *            | ug/Kg | ☼ | 55   | 60 - 105 |
| Hexachlorocyclopentadiene - DL   | 3500          | U *              | 3550        | 1600      | J            | ug/Kg | ☼ | 45   | 37 - 119 |
| Hexachloroethane - DL            | 350           | U                | 3550        | 1650      | *            | ug/Kg | ☼ | 47   | 60 - 94  |
| Indeno[1,2,3-cd]pyrene - DL      | 1800          |                  | 3550        | 4920      |              | ug/Kg | ☼ | 87   | 50 - 134 |
| Isophorone - DL                  | 1400          | U                | 3550        | 2140      |              | ug/Kg | ☼ | 60   | 60 - 102 |
| Naphthalene - DL                 | 3500          | U                | 3550        | 1960      | J *          | ug/Kg | ☼ | 55   | 64 - 99  |
| Nitrobenzene - DL                | 350           | U                | 3550        | 2080      | *            | ug/Kg | ☼ | 58   | 59 - 102 |

TestAmerica Edison

# QC Sample Results

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

TestAmerica Job ID: 460-109716-1

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

Lab Sample ID: 460-109462-E-1-C MS

Matrix: Solid

Analysis Batch: 355488

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 355001

| Analyte                        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | Limits   |
|--------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| N-Nitrosodi-n-propylamine - DL | 350           | U                | 3550        | 2110      |              | ug/Kg | ☼ | 59   | 56 - 112 |
| N-Nitrosodiphenylamine - DL    | 3500          | U                | 3550        | 2400      | J *          | ug/Kg | ☼ | 67   | 71 - 119 |
| Pentachlorophenol - DL         | 2800          | U                | 7110        | 4280      |              | ug/Kg | ☼ | 60   | 47 - 115 |
| Phenanthrene - DL              | 420           | J                | 3550        | 2240      | J *          | ug/Kg | ☼ | 51   | 66 - 105 |
| Phenol - DL                    | 3500          | U                | 3550        | 1800      | J *          | ug/Kg | ☼ | 51   | 55 - 99  |
| Pyrene - DL                    | 2800          | J                | 3550        | 4010      | *            | ug/Kg | ☼ | 35   | 55 - 126 |

| Surrogate                        | MS %Recovery | MS Qualifier | Limits   |
|----------------------------------|--------------|--------------|----------|
| 2,4,6-Tribromophenol (Surr) - DL | 50           |              | 10 - 95  |
| 2-Fluorobiphenyl - DL            | 61           |              | 27 - 84  |
| 2-Fluorophenol (Surr) - DL       | 51           |              | 21 - 84  |
| Nitrobenzene-d5 (Surr) - DL      | 56           |              | 28 - 92  |
| Phenol-d5 (Surr) - DL            | 53           |              | 22 - 88  |
| Terphenyl-d14 (Surr) - DL        | 51           |              | 16 - 114 |

Lab Sample ID: 460-109462-E-1-D MSD

Matrix: Solid

Analysis Batch: 355488

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 355001

| Analyte                           | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
|-----------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----|-------|
| 1,1'-Biphenyl - DL                | 3500          | U                | 3550        | 2370       | J             | ug/Kg | ☼ | 67   | 64 - 103 | 8   | 30    |
| 1,2,4,5-Tetrachlorobenzene - DL   | 3500          | U                | 3550        | 2250       | J             | ug/Kg | ☼ | 63   | 62 - 109 | 5   | 30    |
| 2,2'-oxybis[1-chloropropane] - DL | 3500          | U                | 3550        | 1920       | J             | ug/Kg | ☼ | 54   | 42 - 119 | 10  | 30    |
| 2,3,4,6-Tetrachlorophenol - DL    | 3500          | U                | 3550        | 1770       | J *           | ug/Kg | ☼ | 50   | 57 - 113 | 7   | 30    |
| 2,4,5-Trichlorophenol - DL        | 3500          | U                | 3550        | 2020       | J *           | ug/Kg | ☼ | 57   | 59 - 105 | 7   | 30    |
| 2,4,6-Trichlorophenol - DL        | 1400          | U                | 3550        | 2240       |               | ug/Kg | ☼ | 63   | 61 - 107 | 0   | 30    |
| 2,4-Dichlorophenol - DL           | 1400          | U                | 3550        | 2050       | *             | ug/Kg | ☼ | 58   | 59 - 99  | 7   | 30    |
| 2,4-Dimethylphenol - DL           | 3500          | U                | 3550        | 2330       | J             | ug/Kg | ☼ | 66   | 60 - 98  | 11  | 30    |
| 2,4-Dinitrophenol - DL            | 2800          | U                | 7110        | 2800       | U *           | ug/Kg | ☼ | 0    | 26 - 137 | NC  | 30    |
| 2,4-Dinitrotoluene - DL           | 710           | U                | 3550        | 2440       |               | ug/Kg | ☼ | 69   | 61 - 118 | 10  | 30    |
| 2,6-Dinitrotoluene - DL           | 710           | U                | 3550        | 2520       |               | ug/Kg | ☼ | 71   | 63 - 112 | 7   | 30    |
| 2-Chloronaphthalene - DL          | 3500          | U                | 3550        | 2260       | J             | ug/Kg | ☼ | 64   | 63 - 102 | 6   | 30    |
| 2-Chlorophenol - DL               | 3500          | U                | 3550        | 2080       | J             | ug/Kg | ☼ | 59   | 58 - 95  | 11  | 30    |
| 2-Methylnaphthalene - DL          | 3500          | U                | 3550        | 1970       | J *           | ug/Kg | ☼ | 56   | 64 - 102 | 7   | 30    |
| 2-Methylphenol - DL               | 3500          | U                | 3550        | 2190       | J             | ug/Kg | ☼ | 62   | 56 - 99  | 12  | 30    |
| 2-Nitroaniline - DL               | 3500          | U                | 3550        | 2640       | J             | ug/Kg | ☼ | 74   | 46 - 113 | 25  | 30    |
| 2-Nitrophenol - DL                | 3500          | U                | 3550        | 1700       | J *           | ug/Kg | ☼ | 48   | 63 - 103 | 3   | 30    |
| 3,3'-Dichlorobenzidine - DL       | 1400          | U                | 3550        | 1480       |               | ug/Kg | ☼ | 42   | 18 - 92  | 9   | 30    |
| 3-Nitroaniline - DL               | 3500          | U                | 3550        | 2640       | J             | ug/Kg | ☼ | 74   | 23 - 89  | 18  | 30    |
| 4,6-Dinitro-2-methylphenol - DL   | 2800          | U                | 7110        | 1890       | J *           | ug/Kg | ☼ | 27   | 51 - 124 | NC  | 30    |
| 4-Bromophenyl phenyl ether - DL   | 3500          | U                | 3550        | 2480       | J             | ug/Kg | ☼ | 70   | 65 - 114 | 5   | 30    |
| 4-Chloro-3-methylphenol - DL      | 3500          | U                | 3550        | 2080       | J             | ug/Kg | ☼ | 59   | 58 - 108 | 10  | 30    |
| 4-Chloroaniline - DL              | 3500          | U                | 3550        | 1030       | J             | ug/Kg | ☼ | 29   | 10 - 82  | 7   | 30    |
| 4-Chlorophenyl phenyl ether - DL  | 3500          | U                | 3550        | 2110       | J *           | ug/Kg | ☼ | 59   | 63 - 107 | 8   | 30    |
| 4-Methylphenol - DL               | 3500          | U                | 3550        | 2170       | J             | ug/Kg | ☼ | 61   | 53 - 103 | 14  | 30    |
| 4-Nitroaniline - DL               | 3500          | U                | 3550        | 1970       | J             | ug/Kg | ☼ | 55   | 44 - 109 | 11  | 30    |

TestAmerica Edison



# QC Sample Results

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

TestAmerica Job ID: 460-109716-1

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

Lab Sample ID: 460-109462-E-1-D MSD

Matrix: Solid

Analysis Batch: 355488

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 355001

| Analyte                          | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| 4-Nitrophenol - DL               | 7100          | U                | 7110        | 4110       | J             | ug/Kg | ☼ | 58   | 45 - 125     | 11  | 30        |
| Acenaphthene - DL                | 3500          | U                | 3550        | 2270       | J             | ug/Kg | ☼ | 64   | 59 - 102     | 12  | 30        |
| Acenaphthylene - DL              | 3500          | U                | 3550        | 2320       | J             | ug/Kg | ☼ | 65   | 63 - 102     | 7   | 30        |
| Acetophenone - DL                | 3500          | U                | 3550        | 2040       | J             | ug/Kg | ☼ | 57   | 56 - 107     | 10  | 30        |
| Anthracene - DL                  | 3500          | U                | 3550        | 2580       | J             | ug/Kg | ☼ | 73   | 66 - 105     | 25  | 30        |
| Atrazine - DL                    | 1400          | U                | 7110        | 4960       |               | ug/Kg | ☼ | 70   | 41 - 116     | 15  | 30        |
| Benzaldehyde - DL                | 3500          | U                | 7110        | 3380       | J *           | ug/Kg | ☼ | 48   | 55 - 116     | 5   | 30        |
| Benzo[a]anthracene - DL          | 350           | U                | 3550        | 3810       | *             | ug/Kg | ☼ | 107  | 65 - 106     | 41  | 30        |
| Benzo[a]pyrene - DL              | 1700          |                  | 3550        | 4890       | *             | ug/Kg | ☼ | 91   | 68 - 111     | 40  | 30        |
| Benzo[b]fluoranthene - DL        | 2400          |                  | 3550        | 5230       | *             | ug/Kg | ☼ | 80   | 67 - 116     | 41  | 30        |
| Benzo[g,h,i]perylene - DL        | 1700          | J                | 3550        | 5580       | *             | ug/Kg | ☼ | 110  | 49 - 124     | 32  | 30        |
| Benzo[k]fluoranthene - DL        | 690           |                  | 3550        | 3030       |               | ug/Kg | ☼ | 66   | 65 - 114     | 29  | 30        |
| Bis(2-chloroethoxy)methane - DL  | 3500          | U                | 3550        | 2300       | J             | ug/Kg | ☼ | 65   | 61 - 102     | 10  | 30        |
| Bis(2-chloroethyl)ether - DL     | 350           | U                | 3550        | 2100       |               | ug/Kg | ☼ | 59   | 58 - 102     | 18  | 30        |
| Bis(2-ethylhexyl) phthalate - DL | 3500          | U                | 3550        | 2540       | J             | ug/Kg | ☼ | 71   | 60 - 125     | 19  | 30        |
| Butyl benzyl phthalate - DL      | 3500          | U                | 3550        | 2280       | J             | ug/Kg | ☼ | 64   | 62 - 123     | 6   | 30        |
| Caprolactam - DL                 | 3500          | U                | 7110        | 2800       | J *           | ug/Kg | ☼ | 39   | 44 - 129     | 1   | 30        |
| Carbazole - DL                   | 3500          | U                | 3550        | 2740       | J             | ug/Kg | ☼ | 77   | 62 - 107     | 24  | 30        |
| Chrysene - DL                    | 1400          | J                | 3550        | 4830       | *             | ug/Kg | ☼ | 97   | 64 - 105     | 43  | 30        |
| Dibenz(a,h)anthracene - DL       | 460           |                  | 3550        | 4010       |               | ug/Kg | ☼ | 100  | 54 - 126     | 25  | 30        |
| Dibenzofuran - DL                | 3500          | U                | 3550        | 2200       | J             | ug/Kg | ☼ | 62   | 62 - 102     | 10  | 30        |
| Diethyl phthalate - DL           | 3500          | U                | 3550        | 2600       | J             | ug/Kg | ☼ | 73   | 61 - 110     | 11  | 30        |
| Dimethyl phthalate - DL          | 3500          | U                | 3550        | 2810       | J             | ug/Kg | ☼ | 79   | 64 - 108     | 9   | 30        |
| Di-n-butyl phthalate - DL        | 3500          | U                | 3550        | 2510       | J             | ug/Kg | ☼ | 71   | 62 - 114     | 12  | 30        |
| Di-n-octyl phthalate - DL        | 3500          | U                | 3550        | 1780       | J *           | ug/Kg | ☼ | 50   | 52 - 137     | 7   | 30        |
| Fluoranthene - DL                | 1200          | J                | 3550        | 5550       | *             | ug/Kg | ☼ | 123  | 59 - 109     | 65  | 30        |
| Fluorene - DL                    | 3500          | U                | 3550        | 2170       | J *           | ug/Kg | ☼ | 61   | 65 - 108     | 14  | 30        |
| Hexachlorobenzene - DL           | 350           | U                | 3550        | 2150       | *             | ug/Kg | ☼ | 61   | 65 - 117     | 10  | 30        |
| Hexachlorobutadiene - DL         | 710           | U                | 3550        | 2240       |               | ug/Kg | ☼ | 63   | 60 - 105     | 13  | 30        |
| Hexachlorocyclopentadiene - DL   | 3500          | U *              | 3550        | 1720       | J             | ug/Kg | ☼ | 48   | 37 - 119     | 7   | 30        |
| Hexachloroethane - DL            | 350           | U                | 3550        | 1850       | *             | ug/Kg | ☼ | 52   | 60 - 94      | 11  | 30        |
| Indeno[1,2,3-cd]pyrene - DL      | 1800          |                  | 3550        | 6650       | *             | ug/Kg | ☼ | 136  | 50 - 134     | 30  | 30        |
| Isophorone - DL                  | 1400          | U                | 3550        | 2390       |               | ug/Kg | ☼ | 67   | 60 - 102     | 11  | 30        |
| Naphthalene - DL                 | 3500          | U                | 3550        | 2170       | J *           | ug/Kg | ☼ | 61   | 64 - 99      | 10  | 30        |
| Nitrobenzene - DL                | 350           | U                | 3550        | 2200       |               | ug/Kg | ☼ | 62   | 59 - 102     | 6   | 30        |
| N-Nitrosodi-n-propylamine - DL   | 350           | U                | 3550        | 2170       |               | ug/Kg | ☼ | 61   | 56 - 112     | 3   | 30        |
| N-Nitrosodiphenylamine - DL      | 3500          | U                | 3550        | 2730       | J             | ug/Kg | ☼ | 77   | 71 - 119     | 13  | 30        |
| Pentachlorophenol - DL           | 2800          | U                | 7110        | 4420       |               | ug/Kg | ☼ | 62   | 47 - 115     | 3   | 30        |
| Phenanthrene - DL                | 420           | J                | 3550        | 3800       | *             | ug/Kg | ☼ | 95   | 66 - 105     | 52  | 30        |
| Phenol - DL                      | 3500          | U                | 3550        | 2040       | J             | ug/Kg | ☼ | 57   | 55 - 99      | 12  | 30        |
| Pyrene - DL                      | 2800          | J                | 3550        | 6070       | *             | ug/Kg | ☼ | 93   | 55 - 126     | 41  | 30        |

| Surrogate                        | MSD %Recovery | MSD Qualifier | Limits  |
|----------------------------------|---------------|---------------|---------|
| 2,4,6-Tribromophenol (Surr) - DL | 56            |               | 10 - 95 |
| 2-Fluorobiphenyl - DL            | 68            |               | 27 - 84 |
| 2-Fluorophenol (Surr) - DL       | 56            |               | 21 - 84 |
| Nitrobenzene-d5 (Surr) - DL      | 63            |               | 28 - 92 |

TestAmerica Edison



# QC Sample Results

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

TestAmerica Job ID: 460-109716-1

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

Lab Sample ID: 460-109462-E-1-D MSD

Matrix: Solid

Analysis Batch: 355488

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 355001

| Surrogate                 | MSD<br>%Recovery | MSD<br>Qualifier | Limits   |
|---------------------------|------------------|------------------|----------|
| Phenol-d5 (Surr) - DL     | 57               |                  | 22 - 88  |
| Terphenyl-d14 (Surr) - DL | 51               |                  | 16 - 114 |

## Method: 6010C - Metals (ICP)

Lab Sample ID: MB 460-354017/1-A ^2

Matrix: Solid

Analysis Batch: 354083

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 354017

| Analyte   | MB<br>Result | MB<br>Qualifier | RL   | MDL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------|--------------|-----------------|------|------|-------|---|----------------|----------------|---------|
| Aluminum  | 20.0         | U               | 20.0 | 10.3 | mg/Kg |   | 03/04/16 07:41 | 03/04/16 15:05 | 2       |
| Antimony  | 2.0          | U               | 2.0  | 0.79 | mg/Kg |   | 03/04/16 07:41 | 03/04/16 15:05 | 2       |
| Arsenic   | 1.5          | U               | 1.5  | 0.49 | mg/Kg |   | 03/04/16 07:41 | 03/04/16 15:05 | 2       |
| Barium    | 20.0         | U               | 20.0 | 0.72 | mg/Kg |   | 03/04/16 07:41 | 03/04/16 15:05 | 2       |
| Beryllium | 0.20         | U               | 0.20 | 0.17 | mg/Kg |   | 03/04/16 07:41 | 03/04/16 15:05 | 2       |
| Cadmium   | 0.40         | U               | 0.40 | 0.21 | mg/Kg |   | 03/04/16 07:41 | 03/04/16 15:05 | 2       |
| Calcium   | 500          | U               | 500  | 29.6 | mg/Kg |   | 03/04/16 07:41 | 03/04/16 15:05 | 2       |
| Chromium  | 1.0          | U               | 1.0  | 0.48 | mg/Kg |   | 03/04/16 07:41 | 03/04/16 15:05 | 2       |
| Cobalt    | 5.0          | U               | 5.0  | 0.58 | mg/Kg |   | 03/04/16 07:41 | 03/04/16 15:05 | 2       |
| Copper    | 2.5          | U               | 2.5  | 0.65 | mg/Kg |   | 03/04/16 07:41 | 03/04/16 15:05 | 2       |
| Iron      | 15.0         | U               | 15.0 | 11.3 | mg/Kg |   | 03/04/16 07:41 | 03/04/16 15:05 | 2       |
| Lead      | 1.0          | U               | 1.0  | 0.39 | mg/Kg |   | 03/04/16 07:41 | 03/04/16 15:05 | 2       |
| Magnesium | 500          | U               | 500  | 25.0 | mg/Kg |   | 03/04/16 07:41 | 03/04/16 15:05 | 2       |
| Manganese | 1.5          | U               | 1.5  | 0.53 | mg/Kg |   | 03/04/16 07:41 | 03/04/16 15:05 | 2       |
| Nickel    | 4.0          | U               | 4.0  | 0.73 | mg/Kg |   | 03/04/16 07:41 | 03/04/16 15:05 | 2       |
| Potassium | 500          | U               | 500  | 15.2 | mg/Kg |   | 03/04/16 07:41 | 03/04/16 15:05 | 2       |
| Selenium  | 2.0          | U               | 2.0  | 0.69 | mg/Kg |   | 03/04/16 07:41 | 03/04/16 15:05 | 2       |
| Silver    | 1.0          | U               | 1.0  | 0.18 | mg/Kg |   | 03/04/16 07:41 | 03/04/16 15:05 | 2       |
| Sodium    | 500          | U               | 500  | 33.9 | mg/Kg |   | 03/04/16 07:41 | 03/04/16 15:05 | 2       |
| Thallium  | 2.0          | U               | 2.0  | 0.89 | mg/Kg |   | 03/04/16 07:41 | 03/04/16 15:05 | 2       |
| Vanadium  | 5.0          | U               | 5.0  | 0.50 | mg/Kg |   | 03/04/16 07:41 | 03/04/16 15:05 | 2       |
| Zinc      | 3.0          | U               | 3.0  | 0.73 | mg/Kg |   | 03/04/16 07:41 | 03/04/16 15:05 | 2       |

Lab Sample ID: LCSSRM 460-354017/2-A

Matrix: Solid

Analysis Batch: 354083

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 354017

| Analyte   | Spike<br>Added | LCSSRM<br>Result | LCSSRM<br>Qualifier | Unit  | D | %Rec  | %Rec.<br>Limits  |
|-----------|----------------|------------------|---------------------|-------|---|-------|------------------|
| Aluminum  | 7930           | 5936             |                     | mg/Kg |   | 74.9  | 50.2 - 150.<br>1 |
| Antimony  | 105            | 178.9            |                     | mg/Kg |   | 170.4 | 0.1 - 201.<br>0  |
| Arsenic   | 98.5           | 91.32            |                     | mg/Kg |   | 92.7  | 77.8 - 122.<br>8 |
| Barium    | 308            | 309.4            |                     | mg/Kg |   | 100.5 | 82.5 - 117.<br>5 |
| Beryllium | 66.0           | 67.78            |                     | mg/Kg |   | 102.7 | 83.0 - 116.<br>8 |

TestAmerica Edison

# QC Sample Results

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

TestAmerica Job ID: 460-109716-1

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

Lab Sample ID: LCSSRM 460-354017/2-A  
Matrix: Solid  
Analysis Batch: 354083

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 354017

| Analyte   | Spike Added | LCSSRM Result | LCSSRM Qualifier | Unit  | D | %Rec  | %Rec. Limits |
|-----------|-------------|---------------|------------------|-------|---|-------|--------------|
| Cadmium   | 146         | 148.9         |                  | mg/Kg |   | 102.0 | 82.9 - 117.8 |
| Calcium   | 6610        | 6548          |                  | mg/Kg |   | 99.1  | 83.7 - 116.2 |
| Chromium  | 182         | 182.3         |                  | mg/Kg |   | 100.2 | 79.7 - 120.3 |
| Cobalt    | 162         | 169.1         |                  | mg/Kg |   | 104.4 | 83.3 - 116.0 |
| Copper    | 106         | 103.7         |                  | mg/Kg |   | 97.8  | 81.5 - 118.9 |
| Iron      | 14400       | 14280         |                  | mg/Kg |   | 99.2  | 44.1 - 155.6 |
| Lead      | 130         | 122.0         |                  | mg/Kg |   | 93.8  | 82.3 - 117.7 |
| Magnesium | 2640        | 2184          |                  | mg/Kg |   | 82.7  | 75.8 - 124.6 |
| Manganese | 410         | 446.4         |                  | mg/Kg |   | 108.9 | 81.2 - 119.0 |
| Nickel    | 149         | 162.4         |                  | mg/Kg |   | 109.0 | 82.6 - 117.4 |
| Potassium | 2550        | 2378          |                  | mg/Kg |   | 93.3  | 69.0 - 130.6 |
| Selenium  | 154         | 139.2         |                  | mg/Kg |   | 90.4  | 77.9 - 122.1 |
| Silver    | 40.9        | 38.16         |                  | mg/Kg |   | 93.3  | 75.1 - 124.7 |
| Sodium    | 2480        | 2398          |                  | mg/Kg |   | 96.7  | 70.6 - 129.0 |
| Thallium  | 175         | 172.3         |                  | mg/Kg |   | 98.4  | 78.3 - 121.1 |
| Vanadium  | 96.7        | 99.30         |                  | mg/Kg |   | 102.7 | 77.2 - 123.1 |
| Zinc      | 191         | 196.7         |                  | mg/Kg |   | 103.0 | 83.2 - 116.8 |

Lab Sample ID: 460-109595-A-3-C MS  
Matrix: Solid  
Analysis Batch: 354083

Client Sample ID: Matrix Spike  
Prep Type: Total/NA  
Prep Batch: 354017

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|-----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Aluminum  | 16400         |                  | 307         | 16700     | 4            | mg/Kg | ☼ | 109  | 75 - 125     |
| Antimony  | 6.1           | U                | 76.7        | 66.36     |              | mg/Kg | ☼ | 87   | 75 - 125     |
| Arsenic   | 6.0           |                  | 307         | 284.0     |              | mg/Kg | ☼ | 91   | 75 - 125     |
| Barium    | 29.0          | J                | 307         | 354.2     |              | mg/Kg | ☼ | 106  | 75 - 125     |
| Beryllium | 0.61          | U                | 7.67        | 8.63      |              | mg/Kg | ☼ | 113  | 75 - 125     |
| Cadmium   | 1.2           | U                | 7.67        | 7.86      |              | mg/Kg | ☼ | 103  | 75 - 125     |
| Calcium   | 275           | J                | 3070        | 3542      |              | mg/Kg | ☼ | 107  | 75 - 125     |
| Chromium  | 4.5           |                  | 30.7        | 36.16     |              | mg/Kg | ☼ | 103  | 75 - 125     |
| Cobalt    | 2.4           | J                | 76.7        | 83.41     |              | mg/Kg | ☼ | 106  | 75 - 125     |
| Copper    | 6.4           | J                | 38.3        | 45.48     |              | mg/Kg | ☼ | 102  | 75 - 125     |
| Iron      | 13600         |                  | 153         | 13170     | 4            | mg/Kg | ☼ | -274 | 75 - 125     |
| Lead      | 4.0           |                  | 76.7        | 75.16     |              | mg/Kg | ☼ | 93   | 75 - 125     |
| Magnesium | 1530          | U                | 3070        | 2987      |              | mg/Kg | ☼ | 97   | 75 - 125     |

TestAmerica Edison

# QC Sample Results

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

TestAmerica Job ID: 460-109716-1

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

Lab Sample ID: 460-109595-A-3-C MS

Matrix: Solid

Analysis Batch: 354083

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 354017

| Analyte   | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | Limits   |
|-----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| Manganese | 1240          |                  | 76.7        | 1295      | 4            | mg/Kg | ☼ | 77   | 75 - 125 |
| Nickel    | 3.5           | J                | 76.7        | 89.36     |              | mg/Kg | ☼ | 112  | 75 - 125 |
| Potassium | 105           | J                | 3070        | 3309      |              | mg/Kg | ☼ | 104  | 75 - 125 |
| Selenium  | 6.1           | U                | 307         | 275.6     |              | mg/Kg | ☼ | 90   | 75 - 125 |
| Silver    | 3.1           | U                | 7.67        | 7.23      |              | mg/Kg | ☼ | 94   | 75 - 125 |
| Sodium    | 1530          | U                | 3070        | 3272      |              | mg/Kg | ☼ | 107  | 75 - 125 |
| Thallium  | 6.1           | U                | 307         | 305.3     |              | mg/Kg | ☼ | 100  | 75 - 125 |
| Vanadium  | 7.3           | J                | 76.7        | 88.78     |              | mg/Kg | ☼ | 106  | 75 - 125 |
| Zinc      | 10            |                  | 76.7        | 92.03     |              | mg/Kg | ☼ | 107  | 75 - 125 |

Lab Sample ID: 460-109595-A-3-B DU

Matrix: Solid

Analysis Batch: 354083

Client Sample ID: Duplicate

Prep Type: Total/NA

Prep Batch: 354017

| Analyte   | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit  | D | RPD | Limit |
|-----------|---------------|------------------|-----------|--------------|-------|---|-----|-------|
| Aluminum  | 16400         |                  | 16570     |              | mg/Kg | ☼ | 1   | 20    |
| Antimony  | 6.1           | U                | 6.1       | U            | mg/Kg | ☼ | NC  | 20    |
| Arsenic   | 6.0           |                  | 5.48      |              | mg/Kg | ☼ | 9   | 20    |
| Barium    | 29.0          | J                | 29.13     | J            | mg/Kg | ☼ | 0.4 | 20    |
| Beryllium | 0.61          | U                | 0.61      | U            | mg/Kg | ☼ | NC  | 20    |
| Cadmium   | 1.2           | U                | 1.2       | U            | mg/Kg | ☼ | NC  | 20    |
| Calcium   | 275           | J                | 279.6     | J            | mg/Kg | ☼ | 2   | 20    |
| Chromium  | 4.5           |                  | 4.37      |              | mg/Kg | ☼ | 4   | 20    |
| Cobalt    | 2.4           | J                | 2.29      | J            | mg/Kg | ☼ | 5   | 20    |
| Copper    | 6.4           | J                | 6.43      | J            | mg/Kg | ☼ | 0.5 | 20    |
| Iron      | 13600         |                  | 13810     |              | mg/Kg | ☼ | 2   | 20    |
| Lead      | 4.0           |                  | 3.80      |              | mg/Kg | ☼ | 4   | 20    |
| Magnesium | 1530          | U                | 1530      | U            | mg/Kg | ☼ | NC  | 20    |
| Manganese | 1240          |                  | 1253      |              | mg/Kg | ☼ | 1   | 20    |
| Nickel    | 3.5           | J                | 3.53      | J            | mg/Kg | ☼ | 2   | 20    |
| Potassium | 105           | J                | 93.59     | J            | mg/Kg | ☼ | 11  | 20    |
| Selenium  | 6.1           | U                | 6.1       | U            | mg/Kg | ☼ | NC  | 20    |
| Silver    | 3.1           | U                | 3.1       | U            | mg/Kg | ☼ | NC  | 20    |
| Sodium    | 1530          | U                | 1530      | U            | mg/Kg | ☼ | NC  | 20    |
| Thallium  | 6.1           | U                | 6.1       | U            | mg/Kg | ☼ | NC  | 20    |
| Vanadium  | 7.3           | J                | 7.30      | J            | mg/Kg | ☼ | 0.5 | 20    |
| Zinc      | 10            |                  | 10.24     |              | mg/Kg | ☼ | 2   | 20    |

# Definitions/Glossary

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

TestAmerica Job ID: 460-109716-1

## Qualifiers

### GC/MS Semi VOA

| Qualifier | Qualifier Description                     |
|-----------|---|
| *         | MS or MSD is outside acceptance limits.   |
| J         | Indicates an estimated value.             |
| U         | Analyzed for but not detected.            |
| *         | Duplicate RPD exceeds control limits      |
| *         | LCS or LCSD is outside acceptance limits. |

### Metals

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

## 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: 460-109716-1

## GC/MS Semi VOA

### Prep Batch: 355001

| Lab Sample ID             | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------------|------------------------|-----------|--------|--------|------------|
| 460-109462-E-1-C MS - DL  | Matrix Spike           | Total/NA  | Solid  | 3546   |            |
| 460-109462-E-1-D MSD - DL | Matrix Spike Duplicate | Total/NA  | Solid  | 3546   |            |
| 460-109716-1              | C1                     | Total/NA  | Solid  | 3546   |            |
| LCS 460-355001/2-A        | Lab Control Sample     | Total/NA  | Solid  | 3546   |            |
| LCS 460-355001/3-A        | Lab Control Sample     | Total/NA  | Solid  | 3546   |            |
| MB 460-355001/1-A         | Method Blank           | Total/NA  | Solid  | 3546   |            |

### Analysis Batch: 355365

| Lab Sample ID      | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| LCS 460-355001/2-A | Lab Control Sample | Total/NA  | Solid  | 8270D  | 355001     |

### Analysis Batch: 355423

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 460-109716-1  | C1               | Total/NA  | Solid  | 8270D  | 355001     |

### Analysis Batch: 355488

| Lab Sample ID             | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------------|------------------------|-----------|--------|--------|------------|
| 460-109462-E-1-C MS - DL  | Matrix Spike           | Total/NA  | Solid  | 8270D  | 355001     |
| 460-109462-E-1-D MSD - DL | Matrix Spike Duplicate | Total/NA  | Solid  | 8270D  | 355001     |
| LCS 460-355001/3-A        | Lab Control Sample     | Total/NA  | Solid  | 8270D  | 355001     |
| MB 460-355001/1-A         | Method Blank           | Total/NA  | Solid  | 8270D  | 355001     |

## Metals

### Prep Batch: 354017

| Lab Sample ID         | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|--------------------|-----------|--------|--------|------------|
| 460-109595-A-3-A PDS  | Post Spike         | Total/NA  | Solid  | 3050B  |            |
| 460-109595-A-3-A SD   | SD                 | Total/NA  | Solid  | 3050B  |            |
| 460-109595-A-3-B DU   | Duplicate          | Total/NA  | Solid  | 3050B  |            |
| 460-109595-A-3-C MS   | Matrix Spike       | Total/NA  | Solid  | 3050B  |            |
| 460-109716-1          | C1                 | Total/NA  | Solid  | 3050B  |            |
| LCSSRM 460-354017/2-A | Lab Control Sample | Total/NA  | Solid  | 3050B  |            |
| MB 460-354017/1-A ^2  | Method Blank       | Total/NA  | Solid  | 3050B  |            |

### Analysis Batch: 354083

| Lab Sample ID         | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|--------------------|-----------|--------|--------|------------|
| 460-109595-A-3-A PDS  | Post Spike         | Total/NA  | Solid  | 6010C  | 354017     |
| 460-109595-A-3-A SD   | SD                 | Total/NA  | Solid  | 6010C  | 354017     |
| 460-109595-A-3-B DU   | Duplicate          | Total/NA  | Solid  | 6010C  | 354017     |
| 460-109595-A-3-C MS   | Matrix Spike       | Total/NA  | Solid  | 6010C  | 354017     |
| 460-109716-1          | C1                 | Total/NA  | Solid  | 6010C  | 354017     |
| ICSA 460-354083/10    | ICS                |           | Solid  | 6010C  |            |
| ICSAB 460-354083/11   | ICS                |           | Solid  | 6010C  |            |
| LCSSRM 460-354017/2-A | Lab Control Sample | Total/NA  | Solid  | 6010C  | 354017     |
| MB 460-354017/1-A ^2  | Method Blank       | Total/NA  | Solid  | 6010C  | 354017     |

# QC Association Summary

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

TestAmerica Job ID: 460-109716-1

## General Chemistry

### Analysis Batch: 353906

| Lab Sample ID     | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|------------------|-----------|--------|----------|------------|
| 460-109637-A-3 DU | Duplicate        | Total/NA  | Solid  | Moisture |            |
| 460-109716-1      | C1               | Total/NA  | Solid  | Moisture |            |

# Lab Chronicle

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

TestAmerica Job ID: 460-109716-1

**Client Sample ID: C1**

**Date Collected: 02/29/16 13:55**

**Date Received: 02/29/16 18:50**

**Lab Sample ID: 460-109716-1**

**Matrix: Solid**

**Percent Solids: 87.8**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 3546         |     |                 | 355001       | 03/09/16 13:54       | RAD     | TAL EDI |
| Total/NA  | Analysis   | 8270D        |     | 1               | 355423       | 03/11/16 11:47       | AAS     | TAL EDI |
| Total/NA  | Prep       | 3050B        |     |                 | 354017       | 03/04/16 07:41       | QZY     | TAL EDI |
| Total/NA  | Analysis   | 6010C        |     | 4               | 354083       | 03/04/16 16:37       | YZH     | TAL EDI |
| Total/NA  | Analysis   | Moisture     |     | 1               | 353906       | 03/03/16 19:32       | JDH     | 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: 460-109716-1

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

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Semivolatile Organic Compounds  
(GC/MS)

FORM II  
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-109716-1  
 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 # |
|------------------|----------------------------|-------|-------|-------|-------|-------|-------|
| C1               | 460-109716-1               | 62    | 67    | 68    | 70    | 51    | 66    |
|                  | MB<br>460-355001/1-A       | 68    | 73    | 73    | 72    | 79    | 81    |
|                  | LCS<br>460-355001/2-A      | 71    | 75    | 75    | 76    | 86    | 88    |
|                  | LCS<br>460-355001/3-A      | 74    | 78    | 81    | 79    | 83    | 89    |
|                  | 460-109462-E-1-C<br>MS DL  | 51    | 53    | 56    | 61    | 50    | 51    |
|                  | 460-109462-E-1-D<br>MSD DL | 56    | 57    | 63    | 68    | 56    | 51    |

|                                   |                  |
|-----------------------------------|------------------|
|                                   | <u>QC LIMITS</u> |
| 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.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Solid Level: Low Lab File ID: z41546.D  
 Lab ID: LCS 460-355001/2-A Client ID: \_\_\_\_\_

| COMPOUND                     | SPIKE<br>ADDED<br>(ug/Kg) | LCS<br>CONCENTRATION<br>(ug/Kg) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|------------------------------|---------------------------|---------------------------------|-----------------|---------------------|---|
| 1,1'-Biphenyl                | 3330                      | 2560                            | 77              | 64-103              |   |
| 1,2,4,5-Tetrachlorobenzene   | 3330                      | 2570                            | 77              | 62-109              |   |
| 2,2'-oxybis[1-chloropropane] | 3330                      | 2230                            | 67              | 42-119              |   |
| 2,3,4,6-Tetrachlorophenol    | 3330                      | 2870                            | 86              | 57-113              |   |
| 2,4,5-Trichlorophenol        | 3330                      | 2660                            | 80              | 59-105              |   |
| 2,4,6-Trichlorophenol        | 3330                      | 2790                            | 84              | 61-107              |   |
| 2,4-Dichlorophenol           | 3330                      | 2540                            | 76              | 59-99               |   |
| 2,4-Dimethylphenol           | 3330                      | 2580                            | 77              | 60-98               |   |
| 2,4-Dinitrophenol            | 6670                      | 4920                            | 74              | 26-137              |   |
| 2,4-Dinitrotoluene           | 3330                      | 2830                            | 85              | 61-118              |   |
| 2,6-Dinitrotoluene           | 3330                      | 2780                            | 83              | 63-112              |   |
| 2-Chloronaphthalene          | 3330                      | 2550                            | 76              | 63-102              |   |
| 2-Chlorophenol               | 3330                      | 2580                            | 77              | 58-95               |   |
| 2-Methylnaphthalene          | 3330                      | 2590                            | 78              | 64-102              |   |
| 2-Methylphenol               | 3330                      | 2700                            | 81              | 56-99               |   |
| 2-Nitroaniline               | 3330                      | 2570                            | 77              | 46-113              |   |
| 2-Nitrophenol                | 3330                      | 2580                            | 77              | 63-103              |   |
| 3,3'-Dichlorobenzidine       | 3330                      | 1340                            | 40              | 18-92               |   |
| 3-Nitroaniline               | 3330                      | 1500                            | 45              | 23-89               |   |
| 4,6-Dinitro-2-methylphenol   | 6670                      | 5360                            | 80              | 51-124              |   |
| 4-Bromophenyl phenyl ether   | 3330                      | 2870                            | 86              | 65-114              |   |
| 4-Chloro-3-methylphenol      | 3330                      | 2800                            | 84              | 58-108              |   |
| 4-Chloroaniline              | 3330                      | 1110                            | 33              | 10-82               |   |
| 4-Chlorophenyl phenyl ether  | 3330                      | 2780                            | 83              | 63-107              |   |
| 4-Methylphenol               | 3330                      | 2750                            | 82              | 53-103              |   |
| 4-Nitroaniline               | 3330                      | 2430                            | 73              | 44-109              |   |
| 4-Nitrophenol                | 6670                      | 6240                            | 94              | 45-125              |   |
| Acenaphthene                 | 3330                      | 2640                            | 79              | 59-102              |   |
| Acenaphthylene               | 3330                      | 2720                            | 82              | 63-102              |   |
| Acetophenone                 | 3330                      | 2710                            | 81              | 56-107              |   |
| Anthracene                   | 3330                      | 2890                            | 87              | 66-105              |   |
| Benzo[a]anthracene           | 3330                      | 2730                            | 82              | 65-106              |   |
| Benzo[a]pyrene               | 3330                      | 2840                            | 85              | 68-111              |   |
| Benzo[b]fluoranthene         | 3330                      | 2870                            | 86              | 67-116              |   |
| Benzo[g,h,i]perylene         | 3330                      | 2360                            | 71              | 49-124              |   |
| Benzo[k]fluoranthene         | 3330                      | 2770                            | 83              | 65-114              |   |
| Bis(2-chloroethoxy)methane   | 3330                      | 2620                            | 78              | 61-102              |   |
| Bis(2-chloroethyl)ether      | 3330                      | 2640                            | 79              | 58-102              |   |
| Bis(2-ethylhexyl) phthalate  | 3330                      | 3000                            | 90              | 60-125              |   |
| Butyl benzyl phthalate       | 3330                      | 2950                            | 88              | 62-123              |   |
| Carbazole                    | 3330                      | 2730                            | 82              | 62-107              |   |
| Chrysene                     | 3330                      | 2850                            | 85              | 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.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Solid Level: Low Lab File ID: z41546.D  
 Lab ID: LCS 460-355001/2-A Client ID: \_\_\_\_\_

| COMPOUND                  | SPIKE<br>ADDED<br>(ug/Kg) | LCS<br>CONCENTRATION<br>(ug/Kg) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---------------------------|---------------------------|---------------------------------|-----------------|---------------------|---|
| Dibenz (a,h) anthracene   | 3330                      | 2620                            | 79              | 54-126              |   |
| Dibenzofuran              | 3330                      | 2660                            | 80              | 62-102              |   |
| Diethyl phthalate         | 3330                      | 2860                            | 86              | 61-110              |   |
| Dimethyl phthalate        | 3330                      | 2770                            | 83              | 64-108              |   |
| Di-n-butyl phthalate      | 3330                      | 2890                            | 87              | 62-114              |   |
| Di-n-octyl phthalate      | 3330                      | 3210                            | 96              | 52-137              |   |
| Fluoranthene              | 3330                      | 2730                            | 82              | 59-109              |   |
| Fluorene                  | 3330                      | 2750                            | 82              | 65-108              |   |
| Hexachlorobenzene         | 3330                      | 2820                            | 85              | 65-117              |   |
| Hexachlorobutadiene       | 3330                      | 2580                            | 77              | 60-105              |   |
| Hexachlorocyclopentadiene | 3330                      | 4050                            | 121             | 37-119              | * |
| Hexachloroethane          | 3330                      | 2480                            | 75              | 60-94               |   |
| Indeno[1,2,3-cd]pyrene    | 3330                      | 2690                            | 81              | 50-134              |   |
| Isophorone                | 3330                      | 2760                            | 83              | 60-102              |   |
| Naphthalene               | 3330                      | 2580                            | 77              | 64-99               |   |
| Nitrobenzene              | 3330                      | 2620                            | 79              | 59-102              |   |
| N-Nitrosodi-n-propylamine | 3330                      | 2920                            | 88              | 56-112              |   |
| N-Nitrosodiphenylamine    | 3330                      | 2760                            | 83              | 71-119              |   |
| Pentachlorophenol         | 6670                      | 5720                            | 86              | 47-115              |   |
| Phenanthrene              | 3330                      | 2720                            | 82              | 66-105              |   |
| Phenol                    | 3330                      | 2490                            | 75              | 55-99               |   |
| Pyrene                    | 3330                      | 2870                            | 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.: 460-109716-1  
SDG No.: \_\_\_\_\_  
Matrix: Solid Level: Low Lab File ID: z41578.D  
Lab ID: LCS 460-355001/3-A Client ID: \_\_\_\_\_

| COMPOUND     | SPIKE<br>ADDED<br>(ug/Kg) | LCS<br>CONCENTRATION<br>(ug/Kg) | LCS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|--------------|---------------------------|---------------------------------|-----------------|---------------------|---|
| Atrazine     | 6670                      | 5740                            | 86              | 41-116              |   |
| Benzaldehyde | 6670                      | 5080                            | 76              | 55-116              |   |
| Caprolactam  | 6670                      | 6720                            | 101             | 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.: 460-109716-1  
SDG No.: \_\_\_\_\_  
Matrix: Solid Level: Low Lab File ID: z41591.D  
Lab ID: 460-109462-E-1-C MS DL Client ID: \_\_\_\_\_

| COMPOUND                     | SPIKE<br>ADDED<br>(ug/Kg) | SAMPLE<br>CONCENTRATION<br>(ug/Kg) | MS<br>CONCENTRATION<br>(ug/Kg) | MS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|------------------------------|---------------------------|------------------------------------|--------------------------------|----------------|---------------------|---|
| 1,1'-Biphenyl                | 3550                      | 3500 U                             | 2180 J                         | 61             | 64-103              | * |
| 1,2,4,5-Tetrachlorobenzene   | 3550                      | 3500 U                             | 2140 J                         | 60             | 62-109              | * |
| 2,2'-oxybis[1-chloropropane] | 3550                      | 3500 U                             | 1730 J                         | 49             | 42-119              |   |
| 2,3,4,6-Tetrachlorophenol    | 3550                      | 3500 U                             | 1650 J                         | 47             | 57-113              | * |
| 2,4,5-Trichlorophenol        | 3550                      | 3500 U                             | 1880 J                         | 53             | 59-105              | * |
| 2,4,6-Trichlorophenol        | 3550                      | 1400 U                             | 2240                           | 63             | 61-107              |   |
| 2,4-Dichlorophenol           | 3550                      | 1400 U                             | 1920                           | 54             | 59-99               | * |
| 2,4-Dimethylphenol           | 3550                      | 3500 U                             | 2100 J                         | 59             | 60-98               | * |
| 2,4-Dinitrophenol            | 7110                      | 2800 U                             | 2800 U                         | 0              | 26-137              | * |
| 2,4-Dinitrotoluene           | 3550                      | 710 U                              | 2200                           | 62             | 61-118              |   |
| 2,6-Dinitrotoluene           | 3550                      | 710 U                              | 2690                           | 76             | 63-112              |   |
| 2-Chloronaphthalene          | 3550                      | 3500 U                             | 2140 J                         | 60             | 63-102              | * |
| 2-Chlorophenol               | 3550                      | 3500 U                             | 1870 J                         | 53             | 58-95               | * |
| 2-Methylnaphthalene          | 3550                      | 3500 U                             | 1850 J                         | 52             | 64-102              | * |
| 2-Methylphenol               | 3550                      | 3500 U                             | 1940 J                         | 55             | 56-99               | * |
| 2-Nitroaniline               | 3550                      | 3500 U                             | 2050 J                         | 58             | 46-113              |   |
| 2-Nitrophenol                | 3550                      | 3500 U                             | 1750 J                         | 49             | 63-103              | * |
| 3,3'-Dichlorobenzidine       | 3550                      | 1400 U                             | 1350 J                         | 38             | 18-92               |   |
| 3-Nitroaniline               | 3550                      | 3500 U                             | 2200 J                         | 62             | 23-89               |   |
| 4,6-Dinitro-2-methylphenol   | 7110                      | 2800 U                             | 2800 U                         | 0              | 51-124              | * |
| 4-Bromophenyl phenyl ether   | 3550                      | 3500 U                             | 2350 J                         | 66             | 65-114              |   |
| 4-Chloro-3-methylphenol      | 3550                      | 3500 U                             | 1890 J                         | 53             | 58-108              | * |
| 4-Chloroaniline              | 3550                      | 3500 U                             | 964 J                          | 27             | 10-82               |   |
| 4-Chlorophenyl phenyl ether  | 3550                      | 3500 U                             | 1940 J                         | 55             | 63-107              | * |
| 4-Methylphenol               | 3550                      | 3500 U                             | 1880 J                         | 53             | 53-103              |   |
| 4-Nitroaniline               | 3550                      | 3500 U                             | 1760 J                         | 49             | 44-109              |   |
| 4-Nitrophenol                | 7110                      | 7100 U                             | 3690 J                         | 52             | 45-125              |   |
| Acenaphthene                 | 3550                      | 3500 U                             | 2020 J                         | 57             | 59-102              | * |
| Acenaphthylene               | 3550                      | 3500 U                             | 2150 J                         | 61             | 63-102              | * |
| Acetophenone                 | 3550                      | 3500 U                             | 1840 J                         | 52             | 56-107              | * |
| Anthracene                   | 3550                      | 3500 U                             | 2010 J                         | 56             | 66-105              | * |
| Atrazine                     | 7110                      | 1400 U                             | 4270                           | 60             | 41-116              |   |
| Benzaldehyde                 | 7110                      | 3500 U                             | 3200 J                         | 45             | 55-116              | * |
| Benzo[a]anthracene           | 3550                      | 350 U                              | 2500                           | 70             | 65-106              |   |
| Benzo[a]pyrene               | 3550                      | 1700                               | 3250                           | 45             | 68-111              | * |
| Benzo[b]fluoranthene         | 3550                      | 2400                               | 3440                           | 30             | 67-116              | * |
| Benzo[g,h,i]perylene         | 3550                      | 1700 J                             | 4030                           | 66             | 49-124              |   |
| Benzo[k]fluoranthene         | 3550                      | 690                                | 2260                           | 44             | 65-114              | * |
| Bis(2-chloroethoxy)methane   | 3550                      | 3500 U                             | 2080 J                         | 58             | 61-102              | * |
| Bis(2-chloroethyl)ether      | 3550                      | 350 U                              | 1760                           | 50             | 58-102              | * |
| Bis(2-ethylhexyl) phthalate  | 3550                      | 3500 U                             | 2090 J                         | 59             | 60-125              | * |
| Butyl benzyl phthalate       | 3550                      | 3500 U                             | 2430 J                         | 68             | 62-123              |   |

# 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.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Solid Level: Low Lab File ID: z41591.D  
 Lab ID: 460-109462-E-1-C MS DL Client ID: \_\_\_\_\_

| COMPOUND                  | SPIKE<br>ADDED<br>(ug/Kg) | SAMPLE<br>CONCENTRATION<br>(ug/Kg) | MS<br>CONCENTRATION<br>(ug/Kg) | MS<br>%<br>REC | QC<br>LIMITS<br>REC | # |
|---------------------------|---------------------------|------------------------------------|--------------------------------|----------------|---------------------|---|
| Caprolactam               | 7110                      | 3500 U                             | 2770 J                         | 39             | 44-129              | * |
| Carbazole                 | 3550                      | 3500 U                             | 2140 J                         | 60             | 62-107              | * |
| Chrysene                  | 3550                      | 1400 J                             | 3120 J                         | 49             | 64-105              | * |
| Dibenz (a,h) anthracene   | 3550                      | 460                                | 3140                           | 75             | 54-126              |   |
| Dibenzofuran              | 3550                      | 3500 U                             | 1990 J                         | 56             | 62-102              | * |
| Diethyl phthalate         | 3550                      | 3500 U                             | 2340 J                         | 66             | 61-110              |   |
| Dimethyl phthalate        | 3550                      | 3500 U                             | 2570 J                         | 72             | 64-108              |   |
| Di-n-butyl phthalate      | 3550                      | 3500 U                             | 2230 J                         | 63             | 62-114              |   |
| Di-n-octyl phthalate      | 3550                      | 3500 U                             | 1670 J                         | 47             | 52-137              | * |
| Fluoranthene              | 3550                      | 1200 J                             | 2810 J                         | 46             | 59-109              | * |
| Fluorene                  | 3550                      | 3500 U                             | 1880 J                         | 53             | 65-108              | * |
| Hexachlorobenzene         | 3550                      | 350 U                              | 1950                           | 55             | 65-117              | * |
| Hexachlorobutadiene       | 3550                      | 710 U                              | 1970                           | 55             | 60-105              | * |
| Hexachlorocyclopentadiene | 3550                      | 3500 U                             | 1600 J                         | 45             | 37-119              |   |
| Hexachloroethane          | 3550                      | 350 U                              | 1650                           | 47             | 60-94               | * |
| Indeno[1,2,3-cd]pyrene    | 3550                      | 1800                               | 4920                           | 87             | 50-134              |   |
| Isophorone                | 3550                      | 1400 U                             | 2140                           | 60             | 60-102              |   |
| Naphthalene               | 3550                      | 3500 U                             | 1960 J                         | 55             | 64-99               | * |
| Nitrobenzene              | 3550                      | 350 U                              | 2080                           | 58             | 59-102              | * |
| N-Nitrosodi-n-propylamine | 3550                      | 350 U                              | 2110                           | 59             | 56-112              |   |
| N-Nitrosodiphenylamine    | 3550                      | 3500 U                             | 2400 J                         | 67             | 71-119              | * |
| Pentachlorophenol         | 7110                      | 2800 U                             | 4280                           | 60             | 47-115              |   |
| Phenanthrene              | 3550                      | 420 J                              | 2240 J                         | 51             | 66-105              | * |
| Phenol                    | 3550                      | 3500 U                             | 1800 J                         | 51             | 55-99               | * |
| Pyrene                    | 3550                      | 2800 J                             | 4010                           | 35             | 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.: 460-109716-1  
SDG No.: \_\_\_\_\_  
Matrix: Solid Level: Low Lab File ID: z41592.D  
Lab ID: 460-109462-E-1-D MSD DL Client ID: \_\_\_\_\_

| COMPOUND                     | SPIKE<br>ADDED<br>(ug/Kg) | MSD<br>CONCENTRATION<br>(ug/Kg) | MSD<br>%<br>REC | %<br>RPD | QC LIMITS |        | # |
|------------------------------|---------------------------|---------------------------------|-----------------|----------|-----------|--------|---|
|                              |                           |                                 |                 |          | RPD       | REC    |   |
| 1,1'-Biphenyl                | 3550                      | 2370 J                          | 67              | 8        | 30        | 64-103 |   |
| 1,2,4,5-Tetrachlorobenzene   | 3550                      | 2250 J                          | 63              | 5        | 30        | 62-109 |   |
| 2,2'-oxybis[1-chloropropane] | 3550                      | 1920 J                          | 54              | 10       | 30        | 42-119 |   |
| 2,3,4,6-Tetrachlorophenol    | 3550                      | 1770 J                          | 50              | 7        | 30        | 57-113 | * |
| 2,4,5-Trichlorophenol        | 3550                      | 2020 J                          | 57              | 7        | 30        | 59-105 | * |
| 2,4,6-Trichlorophenol        | 3550                      | 2240                            | 63              | 0        | 30        | 61-107 |   |
| 2,4-Dichlorophenol           | 3550                      | 2050                            | 58              | 7        | 30        | 59-99  | * |
| 2,4-Dimethylphenol           | 3550                      | 2330 J                          | 66              | 11       | 30        | 60-98  |   |
| 2,4-Dinitrophenol            | 7110                      | 2800 U                          | 0               | NC       | 30        | 26-137 | * |
| 2,4-Dinitrotoluene           | 3550                      | 2440                            | 69              | 10       | 30        | 61-118 |   |
| 2,6-Dinitrotoluene           | 3550                      | 2520                            | 71              | 7        | 30        | 63-112 |   |
| 2-Chloronaphthalene          | 3550                      | 2260 J                          | 64              | 6        | 30        | 63-102 |   |
| 2-Chlorophenol               | 3550                      | 2080 J                          | 59              | 11       | 30        | 58-95  |   |
| 2-Methylnaphthalene          | 3550                      | 1970 J                          | 56              | 7        | 30        | 64-102 | * |
| 2-Methylphenol               | 3550                      | 2190 J                          | 62              | 12       | 30        | 56-99  |   |
| 2-Nitroaniline               | 3550                      | 2640 J                          | 74              | 25       | 30        | 46-113 |   |
| 2-Nitrophenol                | 3550                      | 1700 J                          | 48              | 3        | 30        | 63-103 | * |
| 3,3'-Dichlorobenzidine       | 3550                      | 1480                            | 42              | 9        | 30        | 18-92  |   |
| 3-Nitroaniline               | 3550                      | 2640 J                          | 74              | 18       | 30        | 23-89  |   |
| 4,6-Dinitro-2-methylphenol   | 7110                      | 1890 J                          | 27              | NC       | 30        | 51-124 | * |
| 4-Bromophenyl phenyl ether   | 3550                      | 2480 J                          | 70              | 5        | 30        | 65-114 |   |
| 4-Chloro-3-methylphenol      | 3550                      | 2080 J                          | 59              | 10       | 30        | 58-108 |   |
| 4-Chloroaniline              | 3550                      | 1030 J                          | 29              | 7        | 30        | 10-82  |   |
| 4-Chlorophenyl phenyl ether  | 3550                      | 2110 J                          | 59              | 8        | 30        | 63-107 | * |
| 4-Methylphenol               | 3550                      | 2170 J                          | 61              | 14       | 30        | 53-103 |   |
| 4-Nitroaniline               | 3550                      | 1970 J                          | 55              | 11       | 30        | 44-109 |   |
| 4-Nitrophenol                | 7110                      | 4110 J                          | 58              | 11       | 30        | 45-125 |   |
| Acenaphthene                 | 3550                      | 2270 J                          | 64              | 12       | 30        | 59-102 |   |
| Acenaphthylene               | 3550                      | 2320 J                          | 65              | 7        | 30        | 63-102 |   |
| Acetophenone                 | 3550                      | 2040 J                          | 57              | 10       | 30        | 56-107 |   |
| Anthracene                   | 3550                      | 2580 J                          | 73              | 25       | 30        | 66-105 |   |
| Atrazine                     | 7110                      | 4960                            | 70              | 15       | 30        | 41-116 |   |
| Benzaldehyde                 | 7110                      | 3380 J                          | 48              | 5        | 30        | 55-116 | * |
| Benzo[a]anthracene           | 3550                      | 3810                            | 107             | 41       | 30        | 65-106 | * |
| Benzo[a]pyrene               | 3550                      | 4890                            | 91              | 40       | 30        | 68-111 | * |
| Benzo[b]fluoranthene         | 3550                      | 5230                            | 80              | 41       | 30        | 67-116 | * |
| Benzo[g,h,i]perylene         | 3550                      | 5580                            | 110             | 32       | 30        | 49-124 | * |
| Benzo[k]fluoranthene         | 3550                      | 3030                            | 66              | 29       | 30        | 65-114 |   |
| Bis(2-chloroethoxy)methane   | 3550                      | 2300 J                          | 65              | 10       | 30        | 61-102 |   |
| Bis(2-chloroethyl)ether      | 3550                      | 2100                            | 59              | 18       | 30        | 58-102 |   |
| Bis(2-ethylhexyl) phthalate  | 3550                      | 2540 J                          | 71              | 19       | 30        | 60-125 |   |
| Butyl benzyl phthalate       | 3550                      | 2280 J                          | 64              | 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.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Solid Level: Low Lab File ID: z41592.D  
 Lab ID: 460-109462-E-1-D MSD DL Client ID: \_\_\_\_\_

| COMPOUND                  | SPIKE<br>ADDED<br>(ug/Kg) | MSD<br>CONCENTRATION<br>(ug/Kg) | MSD<br>%<br>REC | %<br>RPD | QC LIMITS |        | # |
|---------------------------|---------------------------|---------------------------------|-----------------|----------|-----------|--------|---|
|                           |                           |                                 |                 |          | RPD       | REC    |   |
| Caprolactam               | 7110                      | 2800 J                          | 39              | 1        | 30        | 44-129 | * |
| Carbazole                 | 3550                      | 2740 J                          | 77              | 24       | 30        | 62-107 |   |
| Chrysene                  | 3550                      | 4830                            | 97              | 43       | 30        | 64-105 | * |
| Dibenz (a,h) anthracene   | 3550                      | 4010                            | 100             | 25       | 30        | 54-126 |   |
| Dibenzofuran              | 3550                      | 2200 J                          | 62              | 10       | 30        | 62-102 |   |
| Diethyl phthalate         | 3550                      | 2600 J                          | 73              | 11       | 30        | 61-110 |   |
| Dimethyl phthalate        | 3550                      | 2810 J                          | 79              | 9        | 30        | 64-108 |   |
| Di-n-butyl phthalate      | 3550                      | 2510 J                          | 71              | 12       | 30        | 62-114 |   |
| Di-n-octyl phthalate      | 3550                      | 1780 J                          | 50              | 7        | 30        | 52-137 | * |
| Fluoranthene              | 3550                      | 5550                            | 123             | 65       | 30        | 59-109 | * |
| Fluorene                  | 3550                      | 2170 J                          | 61              | 14       | 30        | 65-108 | * |
| Hexachlorobenzene         | 3550                      | 2150                            | 61              | 10       | 30        | 65-117 | * |
| Hexachlorobutadiene       | 3550                      | 2240                            | 63              | 13       | 30        | 60-105 |   |
| Hexachlorocyclopentadiene | 3550                      | 1720 J                          | 48              | 7        | 30        | 37-119 |   |
| Hexachloroethane          | 3550                      | 1850                            | 52              | 11       | 30        | 60-94  | * |
| Indeno[1,2,3-cd]pyrene    | 3550                      | 6650                            | 136             | 30       | 30        | 50-134 | * |
| Isophorone                | 3550                      | 2390                            | 67              | 11       | 30        | 60-102 |   |
| Naphthalene               | 3550                      | 2170 J                          | 61              | 10       | 30        | 64-99  | * |
| Nitrobenzene              | 3550                      | 2200                            | 62              | 6        | 30        | 59-102 |   |
| N-Nitrosodi-n-propylamine | 3550                      | 2170                            | 61              | 3        | 30        | 56-112 |   |
| N-Nitrosodiphenylamine    | 3550                      | 2730 J                          | 77              | 13       | 30        | 71-119 |   |
| Pentachlorophenol         | 7110                      | 4420                            | 62              | 3        | 30        | 47-115 |   |
| Phenanthrene              | 3550                      | 3800                            | 95              | 52       | 30        | 66-105 | * |
| Phenol                    | 3550                      | 2040 J                          | 57              | 12       | 30        | 55-99  |   |
| Pyrene                    | 3550                      | 6070                            | 93              | 41       | 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.: 460-109716-1  
SDG No.: \_\_\_\_\_  
Lab File ID: z41577.D Lab Sample ID: MB 460-355001/1-A  
Matrix: Solid Date Extracted: 03/09/2016 13:54  
Instrument ID: CBNAMS11 Date Analyzed: 03/11/2016 09:33  
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID              | LAB<br>FILE ID | DATE ANALYZED    |
|------------------|----------------------------|----------------|------------------|
|                  | LCS 460-355001/2-A         | z41546.D       | 03/10/2016 20:47 |
|                  | LCS 460-355001/3-A         | z41578.D       | 03/11/2016 09:57 |
| C1               | 460-109716-1               | L131371.D      | 03/11/2016 11:47 |
|                  | 460-109462-E-1-C MS DL     | z41591.D       | 03/11/2016 15:09 |
|                  | 460-109462-E-1-D MSD<br>DL | z41592.D       | 03/11/2016 15:33 |

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

Lab Name: TestAmerica Edison Job No.: 460-109716-1  
SDG No.: \_\_\_\_\_  
Lab File ID: z41459.D DFTPP Injection Date: 03/09/2016  
Instrument ID: CBNAMS11 DFTPP Injection Time: 08:12  
Analysis Batch No.: 354905

| M/E | ION ABUNDANCE CRITERIA              | % RELATIVE ABUNDANCE |
|-----|-------------------------------------|----------------------|
| 51  | 30.0 - 60.0 % of mass 198           | 42.0                 |
| 68  | Less than 2.0 % of mass 69          | 0.0 (0.0) 1          |
| 69  | Mass 69 relative abundance          | 38.7                 |
| 70  | Less than 2.0 % of mass 69          | 0.2 (0.5) 1          |
| 127 | 40.0 - 60.0 % of mass 198           | 47.1                 |
| 197 | Less than 1.0 % of mass 198         | 0.0                  |
| 198 | Base Peak, 100 % relative abundance | 100.0                |
| 199 | 5.0- 9.0 % of mass 198              | 6.4                  |
| 275 | 10.0 - 30.0 % of mass 198           | 26.4                 |
| 365 | Greater than 1.0 % of mass 198      | 3.2                  |
| 441 | Present but less than mass 443      | 11.5 (76.0) 3        |
| 442 | Greater than 40.0 % of mass 198     | 79.8                 |
| 443 | 17.0 - 23.0 % of mass 442           | 15.1 (18.9) 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 460-354905/2    | z41460.D    | 03/09/2016    | 08:34         |
|                  | STD120 460-354905/3  | z41461.D    | 03/09/2016    | 09:04         |
|                  | STD80 460-354905/4   | z41462.D    | 03/09/2016    | 09:28         |
|                  | STD20 460-354905/5   | z41463.D    | 03/09/2016    | 09:52         |
|                  | STD10 460-354905/6   | z41464.D    | 03/09/2016    | 10:16         |
|                  | STD5 460-354905/7    | z41465.D    | 03/09/2016    | 10:40         |
|                  | STD2 460-354905/8    | z41466.D    | 03/09/2016    | 11:04         |
|                  | STD1 460-354905/9    | z41467.D    | 03/09/2016    | 11:28         |
|                  | STD05 460-354905/10  | z41468.D    | 03/09/2016    | 11:52         |
|                  | STD50 460-354905/11  | z41469.D    | 03/09/2016    | 12:16         |
|                  | STD120 460-354905/12 | z41470.D    | 03/09/2016    | 12:41         |
|                  | STD80 460-354905/13  | z41471.D    | 03/09/2016    | 13:05         |
|                  | STD20 460-354905/14  | z41472.D    | 03/09/2016    | 13:29         |
|                  | STD10 460-354905/15  | z41473.D    | 03/09/2016    | 13:53         |
|                  | STD5 460-354905/16   | z41474.D    | 03/09/2016    | 14:17         |
|                  | STD2 460-354905/17   | z41475.D    | 03/09/2016    | 14:41         |
|                  | ICV 460-354905/18    | z41476.D    | 03/09/2016    | 15:06         |
|                  | ICV 460-354905/19    | z41477.D    | 03/09/2016    | 15:30         |

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

Lab Name: TestAmerica Edison Job No.: 460-109716-1  
SDG No.: \_\_\_\_\_  
Lab File ID: z41542.D DFTPP Injection Date: 03/10/2016  
Instrument ID: CBNAMS11 DFTPP Injection Time: 19:18  
Analysis Batch No.: 355365

| M/E | ION ABUNDANCE CRITERIA              | % RELATIVE ABUNDANCE |
|-----|-------------------------------------|----------------------|
| 51  | 30.0 - 60.0 % of mass 198           | 38.1                 |
| 68  | Less than 2.0 % of mass 69          | 0.7 (1.9) 1          |
| 69  | Mass 69 relative abundance          | 38.4                 |
| 70  | Less than 2.0 % of mass 69          | 0.3 (0.8) 1          |
| 127 | 40.0 - 60.0 % of mass 198           | 46.7                 |
| 197 | Less than 1.0 % of mass 198         | 0.2                  |
| 198 | Base Peak, 100 % relative abundance | 100.0                |
| 199 | 5.0- 9.0 % of mass 198              | 6.9                  |
| 275 | 10.0 - 30.0 % of mass 198           | 27.4                 |
| 365 | Greater than 1.0 % of mass 198      | 3.5                  |
| 441 | Present but less than mass 443      | 10.1 (69.4) 3        |
| 442 | Greater than 40.0 % of mass 198     | 71.7                 |
| 443 | 17.0 - 23.0 % of mass 442           | 14.6 (20.3) 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 460-355365/2 | z41543.D    | 03/10/2016    | 19:34         |
|                  | CCV 460-355365/3   | z41544.D    | 03/10/2016    | 19:58         |
|                  | LCS 460-355001/2-A | z41546.D    | 03/10/2016    | 20:47         |

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

Lab Name: TestAmerica Edison Job No.: 460-109716-1  
SDG No.: \_\_\_\_\_  
Lab File ID: z41573.D DFTPP Injection Date: 03/11/2016  
Instrument ID: CBNAMS11 DFTPP Injection Time: 07:54  
Analysis Batch No.: 355488

| M/E | ION ABUNDANCE CRITERIA              | % RELATIVE ABUNDANCE |
|-----|-------------------------------------|----------------------|
| 51  | 30.0 - 60.0 % of mass 198           | 37.4                 |
| 68  | Less than 2.0 % of mass 69          | 0.5 (1.3) 1          |
| 69  | Mass 69 relative abundance          | 37.5                 |
| 70  | Less than 2.0 % of mass 69          | 0.3 (0.7) 1          |
| 127 | 40.0 - 60.0 % of mass 198           | 46.6                 |
| 197 | Less than 1.0 % of mass 198         | 1.0                  |
| 198 | Base Peak, 100 % relative abundance | 100.0                |
| 199 | 5.0- 9.0 % of mass 198              | 7.3                  |
| 275 | 10.0 - 30.0 % of mass 198           | 30.0                 |
| 365 | Greater than 1.0 % of mass 198      | 3.2                  |
| 441 | Present but less than mass 443      | 12.6 (75.9) 3        |
| 442 | Greater than 40.0 % of mass 198     | 86.0                 |
| 443 | 17.0 - 23.0 % of mass 442           | 16.6 (19.2) 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 460-355488/2         | z41574.D    | 03/11/2016    | 08:08         |
|                  | CCV 460-355488/3           | z41575.D    | 03/11/2016    | 08:46         |
|                  | MB 460-355001/1-A          | z41577.D    | 03/11/2016    | 09:33         |
|                  | LCS 460-355001/3-A         | z41578.D    | 03/11/2016    | 09:57         |
|                  | 460-109462-E-1-C MS<br>DL  | z41591.D    | 03/11/2016    | 15:09         |
|                  | 460-109462-E-1-D MSD<br>DL | z41592.D    | 03/11/2016    | 15:33         |

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

Lab Name: TestAmerica Edison Job No.: 460-109716-1  
SDG No.: \_\_\_\_\_  
Lab File ID: L131113a.D DFTPP Injection Date: 03/06/2016  
Instrument ID: CBNAMS12 DFTPP Injection Time: 09:26  
Analysis Batch No.: 354301

| M/E | ION ABUNDANCE CRITERIA              | % RELATIVE ABUNDANCE |
|-----|-------------------------------------|----------------------|
| 51  | 30.0 - 60.0 % of mass 198           | 51.5                 |
| 68  | Less than 2.0 % of mass 69          | 0.7 (1.7) 1          |
| 69  | Mass 69 relative abundance          | 41.8                 |
| 70  | Less than 2.0 % of mass 69          | 0.3 (0.8) 1          |
| 127 | 40.0 - 60.0 % of mass 198           | 48.6                 |
| 197 | Less than 1.0 % of mass 198         | 0.8                  |
| 198 | Base Peak, 100 % relative abundance | 100.0                |
| 199 | 5.0- 9.0 % of mass 198              | 6.6                  |
| 275 | 10.0 - 30.0 % of mass 198           | 24.7                 |
| 365 | Greater than 1.0 % of mass 198      | 3.5                  |
| 441 | Present but less than mass 443      | 14.3 (87.7) 3        |
| 442 | Greater than 40.0 % of mass 198     | 87.0                 |
| 443 | 17.0 - 23.0 % of mass 442           | 16.3 (18.7) 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 460-354301/2    | L131114.D   | 03/06/2016    | 09:45         |
|                  | STD120 460-354301/3  | L131115.D   | 03/06/2016    | 11:01         |
|                  | STD80 460-354301/4   | L131116.D   | 03/06/2016    | 11:25         |
|                  | STD20 460-354301/5   | L131117.D   | 03/06/2016    | 11:50         |
|                  | STD10 460-354301/6   | L131118.D   | 03/06/2016    | 12:14         |
|                  | STD5 460-354301/7    | L131119.D   | 03/06/2016    | 12:39         |
|                  | STD2 460-354301/8    | L131120.D   | 03/06/2016    | 13:03         |
|                  | STD1 460-354301/9    | L131121.D   | 03/06/2016    | 13:27         |
|                  | STD05 460-354301/10  | L131122.D   | 03/06/2016    | 13:52         |
|                  | STD50 460-354301/11  | L131123.D   | 03/06/2016    | 14:16         |
|                  | STD120 460-354301/12 | L131124.D   | 03/06/2016    | 14:41         |
|                  | STD080 460-354301/13 | L131125.D   | 03/06/2016    | 15:05         |
|                  | STD020 460-354301/14 | L131126.D   | 03/06/2016    | 15:30         |
|                  | STD010 460-354301/15 | L131127.D   | 03/06/2016    | 15:54         |
|                  | STD5 460-354301/16   | L131128.D   | 03/06/2016    | 16:18         |
|                  | STD2 460-354301/17   | L131129.D   | 03/06/2016    | 16:43         |
|                  | ICV 460-354301/18    | L131130.D   | 03/06/2016    | 17:07         |
|                  | ICV 460-354301/19    | L131131.D   | 03/06/2016    | 17:31         |

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

Lab Name: TestAmerica Edison Job No.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: L131349.D DFTPP Injection Date: 03/11/2016  
 Instrument ID: CBNAMS12 DFTPP Injection Time: 01:45  
 Analysis Batch No.: 355423

| M/E | ION ABUNDANCE CRITERIA              | % RELATIVE ABUNDANCE |
|-----|-------------------------------------|----------------------|
| 51  | 30.0 - 60.0 % of mass 198           | 55.0                 |
| 68  | Less than 2.0 % of mass 69          | 0.8 (1.8) 1          |
| 69  | Mass 69 relative abundance          | 45.4                 |
| 70  | Less than 2.0 % of mass 69          | 0.0 (0.0) 1          |
| 127 | 40.0 - 60.0 % of mass 198           | 51.1                 |
| 197 | Less than 1.0 % of mass 198         | 0.7                  |
| 198 | Base Peak, 100 % relative abundance | 100.0                |
| 199 | 5.0- 9.0 % of mass 198              | 7.1                  |
| 275 | 10.0 - 30.0 % of mass 198           | 22.6                 |
| 365 | Greater than 1.0 % of mass 198      | 2.8                  |
| 441 | Present but less than mass 443      | 11.4 (77.9) 3        |
| 442 | Greater than 40.0 % of mass 198     | 79.0                 |
| 443 | 17.0 - 23.0 % of mass 442           | 14.6 (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 460-355423/2 | L131350a.D  | 03/11/2016    | 02:45         |
|                  | CCV 460-355423/3   | L131351.D   | 03/11/2016    | 03:37         |
| C1               | 460-109716-1       | L131371.D   | 03/11/2016    | 11:47         |

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

Lab Name: TestAmerica Edison Job No.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 460-354905/2 Date Analyzed: 03/09/2016 08:34  
 Instrument ID: CBNAMS11 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)  
 Lab File ID (Standard): z41460.D Heated Purge: (Y/N) N  
 Calibration ID: 54797

|                               | DCB              |        | NPT     |        | ANT    |        |      |
|-------------------------------|------------------|--------|---------|--------|--------|--------|------|
|                               | AREA #           | RT #   | AREA #  | RT #   | AREA # | RT #   |      |
| INITIAL CALIBRATION MID-POINT | 262870           | 4.53   | 874145  | 5.82   | 400725 | 7.58   |      |
| UPPER LIMIT                   | 525740           | 5.03   | 1748290 | 6.32   | 801450 | 8.08   |      |
| LOWER LIMIT                   | 131435           | 4.03   | 437073  | 5.32   | 200363 | 7.08   |      |
| LAB SAMPLE ID                 | CLIENT SAMPLE ID |        |         |        |        |        |      |
| ICV 460-354905/18             |                  | 226573 | 4.53    | 765411 | 5.82   | 373849 | 7.58 |
| ICV 460-354905/19             |                  | 242802 | 4.53    | 814618 | 5.82   | 391189 | 7.57 |

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.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 460-354905/2 Date Analyzed: 03/09/2016 08:34  
 Instrument ID: CBNAMS11 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)  
 Lab File ID (Standard): z41460.D Heated Purge: (Y/N) N  
 Calibration ID: 54797

|                               | PHN              |        | CRY    |        | PRY    |        |       |
|-------------------------------|------------------|--------|--------|--------|--------|--------|-------|
|                               | AREA #           | RT #   | AREA # | RT #   | AREA # | RT #   |       |
| INITIAL CALIBRATION MID-POINT | 531954           | 9.05   | 271326 | 11.86  | 199587 | 13.82  |       |
| UPPER LIMIT                   | 1063908          | 9.55   | 542652 | 12.36  | 399174 | 14.32  |       |
| LOWER LIMIT                   | 265977           | 8.55   | 135663 | 11.36  | 99794  | 13.32  |       |
| LAB SAMPLE ID                 | CLIENT SAMPLE ID |        |        |        |        |        |       |
| ICV 460-354905/18             |                  | 533945 | 9.05   | 270333 | 11.86  | 174000 | 13.82 |
| ICV 460-354905/19             |                  | 601527 | 9.04   | 328254 | 11.86  | 196544 | 13.82 |

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.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 460-355365/2 Date Analyzed: 03/10/2016 19:34  
 Instrument ID: CBNAMS11 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)  
 Lab File ID (Standard): z41543.D Heated Purge: (Y/N) N  
 Calibration ID: 54802

|                    |  | DCB              |      | NPT     |      | ANT    |      |
|--------------------|--|------------------|------|---------|------|--------|------|
|                    |  | AREA #           | RT # | AREA #  | RT # | AREA # | RT # |
| 12/24 HOUR STD     |  | 247681           | 4.53 | 866298  | 5.82 | 413497 | 7.57 |
| UPPER LIMIT        |  | 495362           | 5.03 | 1732596 | 6.32 | 826994 | 8.07 |
| LOWER LIMIT        |  | 123841           | 4.03 | 433149  | 5.32 | 206749 | 7.07 |
| LAB SAMPLE ID      |  | CLIENT SAMPLE ID |      |         |      |        |      |
| LCS 460-355001/2-A |  | 287870           | 4.53 | 1068946 | 5.81 | 534841 | 7.57 |

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.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 460-355365/2 Date Analyzed: 03/10/2016 19:34  
 Instrument ID: CBNAMS11 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)  
 Lab File ID (Standard): z41543.D Heated Purge: (Y/N) N  
 Calibration ID: 54802

|                    |  | PHN              |      | CRY    |       | PRY    |       |
|--------------------|--|------------------|------|--------|-------|--------|-------|
|                    |  | AREA #           | RT # | AREA # | RT #  | AREA # | RT #  |
| 12/24 HOUR STD     |  | 548990           | 9.04 | 260654 | 11.86 | 171373 | 13.82 |
| UPPER LIMIT        |  | 1097980          | 9.54 | 521308 | 12.36 | 342746 | 14.32 |
| LOWER LIMIT        |  | 274495           | 8.54 | 130327 | 11.36 | 85687  | 13.32 |
| LAB SAMPLE ID      |  | CLIENT SAMPLE ID |      |        |       |        |       |
| LCS 460-355001/2-A |  | 739265           | 9.04 | 358141 | 11.86 | 233116 | 13.82 |

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.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 460-355488/2 Date Analyzed: 03/11/2016 08:08  
 Instrument ID: CBNAMS11 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)  
 Lab File ID (Standard): z41574.D Heated Purge: (Y/N) N  
 Calibration ID: 54802

|                            | DCB              |        | NPT     |         | ANT    |        |      |
|----------------------------|------------------|--------|---------|---------|--------|--------|------|
|                            | AREA #           | RT #   | AREA #  | RT #    | AREA # | RT #   |      |
| 12/24 HOUR STD             | 249713           | 4.48   | 875962  | 5.76    | 402982 | 7.51   |      |
| UPPER LIMIT                | 499426           | 4.98   | 1751924 | 6.26    | 805964 | 8.01   |      |
| LOWER LIMIT                | 124857           | 3.98   | 437981  | 5.26    | 201491 | 7.01   |      |
| LAB SAMPLE ID              | CLIENT SAMPLE ID |        |         |         |        |        |      |
| MB 460-355001/1-A          |                  | 285158 | 4.47    | 1081404 | 5.75   | 563080 | 7.49 |
| LCS 460-355001/3-A         |                  | 265725 | 4.47    | 1002909 | 5.75   | 520583 | 7.49 |
| 460-109462-E-1-C MS<br>DL  |                  | 203960 | 4.47    | 658253  | 5.74   | 257350 | 7.49 |
| 460-109462-E-1-D MSD<br>DL |                  | 199648 | 4.47    | 637598  | 5.74   | 248751 | 7.49 |

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.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 460-355488/2 Date Analyzed: 03/11/2016 08:08  
 Instrument ID: CBNAMS11 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)  
 Lab File ID (Standard): z41574.D Heated Purge: (Y/N) N  
 Calibration ID: 54802

|                            | PHN              |        | CRY    |        | PRY    |        |       |
|----------------------------|------------------|--------|--------|--------|--------|--------|-------|
|                            | AREA #           | RT #   | AREA # | RT #   | AREA # | RT #   |       |
| 12/24 HOUR STD             | 514574           | 8.97   | 258308 | 11.76  | 194316 | 13.71  |       |
| UPPER LIMIT                | 1029148          | 9.47   | 516616 | 12.26  | 388632 | 14.21  |       |
| LOWER LIMIT                | 257287           | 8.47   | 129154 | 11.26  | 97158  | 13.21  |       |
| LAB SAMPLE ID              | CLIENT SAMPLE ID |        |        |        |        |        |       |
| MB 460-355001/1-A          |                  | 783819 | 8.96   | 358350 | 11.75  | 243167 | 13.69 |
| LCS 460-355001/3-A         |                  | 732264 | 8.96   | 335775 | 11.74  | 225765 | 13.69 |
| 460-109462-E-1-C MS<br>DL  |                  | 309751 | 8.95   | 182774 | 11.73  | 207547 | 13.69 |
| 460-109462-E-1-D MSD<br>DL |                  | 294222 | 8.95   | 187811 | 11.74  | 218392 | 13.69 |

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.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 460-354301/2 Date Analyzed: 03/06/2016 09:45  
 Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)  
 Lab File ID (Standard): L131114.D Heated Purge: (Y/N) N  
 Calibration ID: 54752

|                               | DCB              |        | NPT    |        | ANT    |        |      |
|-------------------------------|------------------|--------|--------|--------|--------|--------|------|
|                               | AREA #           | RT #   | AREA # | RT #   | AREA # | RT #   |      |
| INITIAL CALIBRATION MID-POINT | 113670           | 4.29   | 401071 | 5.58   | 203504 | 7.33   |      |
| UPPER LIMIT                   | 227340           | 4.79   | 802142 | 6.08   | 407008 | 7.83   |      |
| LOWER LIMIT                   | 56835            | 3.79   | 200536 | 5.08   | 101752 | 6.83   |      |
| LAB SAMPLE ID                 | CLIENT SAMPLE ID |        |        |        |        |        |      |
| ICV 460-354301/18             |                  | 127013 | 4.30   | 431672 | 5.58   | 207168 | 7.32 |
| ICV 460-354301/19             |                  | 141396 | 4.30   | 503150 | 5.58   | 247239 | 7.32 |

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.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: ICIS 460-354301/2 Date Analyzed: 03/06/2016 09:45  
 Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)  
 Lab File ID (Standard): L131114.D Heated Purge: (Y/N) N  
 Calibration ID: 54752

|                               | PHN              |        | CRY    |        | PRY    |        |       |
|-------------------------------|------------------|--------|--------|--------|--------|--------|-------|
|                               | AREA #           | RT #   | AREA # | RT #   | AREA # | RT #   |       |
| INITIAL CALIBRATION MID-POINT | 304334           | 8.79   | 230967 | 11.53  | 206855 | 13.43  |       |
| UPPER LIMIT                   | 608668           | 9.29   | 461934 | 12.03  | 413710 | 13.93  |       |
| LOWER LIMIT                   | 152167           | 8.29   | 115484 | 11.03  | 103428 | 12.93  |       |
| LAB SAMPLE ID                 | CLIENT SAMPLE ID |        |        |        |        |        |       |
| ICV 460-354301/18             |                  | 288116 | 8.78   | 191513 | 11.51  | 161896 | 13.41 |
| ICV 460-354301/19             |                  | 361195 | 8.78   | 258823 | 11.51  | 199385 | 13.41 |

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.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 460-355423/2 Date Analyzed: 03/11/2016 02:45  
 Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)  
 Lab File ID (Standard): L131350a.D Heated Purge: (Y/N) N  
 Calibration ID: 54756

|                | DCB              |      | NPT    |      | ANT    |      |
|----------------|------------------|------|--------|------|--------|------|
|                | AREA #           | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | 132890           | 4.20 | 478761 | 5.49 | 231424 | 7.23 |
| UPPER LIMIT    | 265780           | 4.70 | 957522 | 5.99 | 462848 | 7.73 |
| LOWER LIMIT    | 66445            | 3.70 | 239381 | 4.99 | 115712 | 6.73 |
| LAB SAMPLE ID  | CLIENT SAMPLE ID |      |        |      |        |      |
| 460-109716-1   | C1               |      | 123869 | 4.20 | 444000 | 5.48 |
|                |                  |      |        |      | 206106 | 7.23 |

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.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 460-355423/2 Date Analyzed: 03/11/2016 02:45  
 Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil MS ID: 0.25 (mm)  
 Lab File ID (Standard): L131350a.D Heated Purge: (Y/N) N  
 Calibration ID: 54756

|                | PHN              |      | CRY    |       | PRY    |       |
|----------------|------------------|------|--------|-------|--------|-------|
|                | AREA #           | RT # | AREA # | RT #  | AREA # | RT #  |
| 12/24 HOUR STD | 328560           | 8.69 | 228940 | 11.40 | 194192 | 13.28 |
| UPPER LIMIT    | 657120           | 9.19 | 457880 | 11.90 | 388384 | 13.78 |
| LOWER LIMIT    | 164280           | 8.19 | 114470 | 10.90 | 97096  | 12.78 |
| LAB SAMPLE ID  | CLIENT SAMPLE ID |      |        |       |        |       |
| 460-109716-1   | C1               |      | 262222 | 8.68  | 183226 | 11.40 |
|                |                  |      |        |       | 240460 | 13.29 |

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>460-109716-1</u>            |
| SDG No.: _____                      |   |
| Client Sample ID: <u>C1</u>         | Lab Sample ID: <u>460-109716-1</u>      |
| Matrix: <u>Solid</u>                | Lab File ID: <u>L131371.D</u>           |
| Analysis Method: <u>8270D</u>       | Date Collected: <u>02/29/2016 13:55</u> |
| Extract. Method: <u>3546</u>        | Date Extracted: <u>03/09/2016 13:54</u> |
| Sample wt/vol: <u>15.0268(g)</u>    | Date Analyzed: <u>03/11/2016 11:47</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>12.2</u>             | GPC Cleanup: (Y/N) <u>N</u>             |
| Analysis Batch No.: <u>355423</u>   | Units: <u>ug/Kg</u>                     |

| CAS NO.   | COMPOUND NAME                | RESULT | Q | RL  | MDL |
|-----------|------------------------------|--------|---|-----|-----|
| 92-52-4   | 1,1'-Biphenyl                | 380    | U | 380 | 32  |
| 95-94-3   | 1,2,4,5-Tetrachlorobenzene   | 380    | U | 380 | 28  |
| 108-60-1  | 2,2'-oxybis[1-chloropropane] | 380    | U | 380 | 15  |
| 58-90-2   | 2,3,4,6-Tetrachlorophenol    | 380    | U | 380 | 35  |
| 95-95-4   | 2,4,5-Trichlorophenol        | 380    | U | 380 | 37  |
| 88-06-2   | 2,4,6-Trichlorophenol        | 150    | U | 150 | 11  |
| 120-83-2  | 2,4-Dichlorophenol           | 150    | U | 150 | 8.9 |
| 105-67-9  | 2,4-Dimethylphenol           | 380    | U | 380 | 83  |
| 51-28-5   | 2,4-Dinitrophenol            | 300    | U | 300 | 280 |
| 121-14-2  | 2,4-Dinitrotoluene           | 76     | U | 76  | 15  |
| 606-20-2  | 2,6-Dinitrotoluene           | 76     | U | 76  | 20  |
| 91-58-7   | 2-Chloronaphthalene          | 380    | U | 380 | 8.5 |
| 95-57-8   | 2-Chlorophenol               | 380    | U | 380 | 9.6 |
| 91-57-6   | 2-Methylnaphthalene          | 50     | J | 380 | 8.3 |
| 95-48-7   | 2-Methylphenol               | 380    | U | 380 | 16  |
| 88-74-4   | 2-Nitroaniline               | 380    | U | 380 | 12  |
| 88-75-5   | 2-Nitrophenol                | 380    | U | 380 | 13  |
| 91-94-1   | 3,3'-Dichlorobenzidine       | 150    | U | 150 | 42  |
| 99-09-2   | 3-Nitroaniline               | 380    | U | 380 | 11  |
| 534-52-1  | 4,6-Dinitro-2-methylphenol   | 300    | U | 300 | 100 |
| 101-55-3  | 4-Bromophenyl phenyl ether   | 380    | U | 380 | 12  |
| 59-50-7   | 4-Chloro-3-methylphenol      | 380    | U | 380 | 16  |
| 106-47-8  | 4-Chloroaniline              | 380    | U | 380 | 9.7 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether  | 380    | U | 380 | 11  |
| 106-44-5  | 4-Methylphenol               | 380    | U | 380 | 10  |
| 100-01-6  | 4-Nitroaniline               | 380    | U | 380 | 14  |
| 100-02-7  | 4-Nitrophenol                | 760    | U | 760 | 180 |
| 83-32-9   | Acenaphthene                 | 410    |   | 380 | 9.1 |
| 208-96-8  | Acenaphthylene               | 230    | J | 380 | 9.7 |
| 98-86-2   | Acetophenone                 | 9.5    | J | 380 | 8.2 |
| 120-12-7  | Anthracene                   | 1200   |   | 380 | 36  |
| 1912-24-9 | Atrazine                     | 150    | U | 150 | 17  |
| 100-52-7  | Benzaldehyde                 | 380    | U | 380 | 29  |
| 56-55-3   | Benzo[a]anthracene           | 3800   |   | 38  | 31  |

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

|                                     |   |
|-------------------------------------|---|
| Lab Name: <u>TestAmerica Edison</u> | Job No.: <u>460-109716-1</u>            |
| SDG No.: _____                      |   |
| Client Sample ID: <u>C1</u>         | Lab Sample ID: <u>460-109716-1</u>      |
| Matrix: <u>Solid</u>                | Lab File ID: <u>L131371.D</u>           |
| Analysis Method: <u>8270D</u>       | Date Collected: <u>02/29/2016 13:55</u> |
| Extract. Method: <u>3546</u>        | Date Extracted: <u>03/09/2016 13:54</u> |
| Sample wt/vol: <u>15.0268(g)</u>    | Date Analyzed: <u>03/11/2016 11:47</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>12.2</u>             | GPC Cleanup: (Y/N) <u>N</u>             |
| Analysis Batch No.: <u>355423</u>   | Units: <u>ug/Kg</u>                     |

| CAS NO.  | COMPOUND NAME               | RESULT | Q   | RL  | MDL |
|----------|-----------------------------|--------|-----|-----|-----|
| 50-32-8  | Benzo[a]pyrene              | 4000   |     | 38  | 11  |
| 205-99-2 | Benzo[b]fluoranthene        | 4600   |     | 38  | 15  |
| 191-24-2 | Benzo[g,h,i]perylene        | 2500   |     | 380 | 22  |
| 207-08-9 | Benzo[k]fluoranthene        | 1800   |     | 38  | 16  |
| 111-91-1 | Bis(2-chloroethoxy)methane  | 380    | U   | 380 | 12  |
| 111-44-4 | Bis(2-chloroethyl)ether     | 38     | U   | 38  | 8.9 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 310    | J   | 380 | 15  |
| 85-68-7  | Butyl benzyl phthalate      | 380    | U   | 380 | 12  |
| 105-60-2 | Caprolactam                 | 380    | U   | 380 | 27  |
| 86-74-8  | Carbazole                   | 180    | J   | 380 | 9.3 |
| 218-01-9 | Chrysene                    | 3800   |     | 380 | 10  |
| 53-70-3  | Dibenz(a,h)anthracene       | 680    |     | 38  | 20  |
| 132-64-9 | Dibenzofuran                | 130    | J   | 380 | 11  |
| 84-66-2  | Diethyl phthalate           | 380    | U   | 380 | 11  |
| 131-11-3 | Dimethyl phthalate          | 380    | U   | 380 | 11  |
| 84-74-2  | Di-n-butyl phthalate        | 380    | U   | 380 | 11  |
| 117-84-0 | Di-n-octyl phthalate        | 380    | U   | 380 | 19  |
| 206-44-0 | Fluoranthene                | 7000   |     | 380 | 11  |
| 86-73-7  | Fluorene                    | 360    | J   | 380 | 8.2 |
| 118-74-1 | Hexachlorobenzene           | 38     | U   | 38  | 15  |
| 87-68-3  | Hexachlorobutadiene         | 76     | U   | 76  | 11  |
| 77-47-4  | Hexachlorocyclopentadiene   | 380    | U * | 380 | 23  |
| 67-72-1  | Hexachloroethane            | 38     | U   | 38  | 14  |
| 193-39-5 | Indeno[1,2,3-cd]pyrene      | 2800   |     | 38  | 25  |
| 78-59-1  | Isophorone                  | 150    | U   | 150 | 8.1 |
| 91-20-3  | Naphthalene                 | 82     | J   | 380 | 9.6 |
| 98-95-3  | Nitrobenzene                | 38     | U   | 38  | 12  |
| 621-64-7 | N-Nitrosodi-n-propylamine   | 38     | U   | 38  | 13  |
| 86-30-6  | N-Nitrosodiphenylamine      | 380    | U   | 380 | 34  |
| 87-86-5  | Pentachlorophenol           | 300    | U   | 300 | 45  |
| 85-01-8  | Phenanthrene                | 3800   |     | 380 | 10  |
| 108-95-2 | Phenol                      | 380    | U   | 380 | 12  |
| 129-00-0 | Pyrene                      | 6200   |     | 380 | 17  |

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-109716-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: C1 Lab Sample ID: 460-109716-1  
Matrix: Solid Lab File ID: L131371.D  
Analysis Method: 8270D Date Collected: 02/29/2016 13:55  
Extract. Method: 3546 Date Extracted: 03/09/2016 13:54  
Sample wt/vol: 15.0268(g) Date Analyzed: 03/11/2016 11:47  
Con. Extract Vol.: 1(mL) Dilution Factor: 1  
Injection Volume: 1(uL) Level: (low/med) Low  
% Moisture: 12.2 GPC Cleanup: (Y/N) N  
Analysis Batch No.: 355423 Units: ug/Kg

| CAS NO.   | SURROGATE                   | %REC | Q | LIMITS |
|-----------|-----------------------------|------|---|--------|
| 118-79-6  | 2,4,6-Tribromophenol (Surr) | 51   |   | 10-95  |
| 321-60-8  | 2-Fluorobiphenyl            | 70   |   | 27-84  |
| 367-12-4  | 2-Fluorophenol (Surr)       | 62   |   | 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)        | 66   |   | 16-114 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131371.D  
 Lims ID: 460-109716-A-1-B Lab Sample ID: 460-109716-1  
 Client ID: C1  
 Sample Type: Client  
 Inject. Date: 11-Mar-2016 11:47:30 ALS Bottle#: 23 Worklist Smp#: 23  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038301-023  
 Operator ID: Instrument ID: CBNAMS12  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 11-Mar-2016 14:40:30 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK027

First Level Reviewer: szczecha

Date: 11-Mar-2016 14:40:30

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | OnCol Amt ug/ml | Flags |
|--------------------------------|-----|-----------|---------------|---------------|-----|----------|-----------------|-------|
| \$ 4 2-Fluorophenol            | 112 | 2.934     | 2.916         | 0.018         | 93  | 129858   | 30.9            |       |
| \$ 6 Phenol-d5                 | 99  | 3.834     | 3.851         | -0.017        | 86  | 174352   | 33.3            |       |
| * 13 1,4-Dichlorobenzene-d4    | 152 | 4.199     | 4.198         | 0.001         | 98  | 123869   | 40.0            |       |
| 22 Acetophenone                | 105 | 4.598     | 4.616         | -0.018        | 80  | 653      | 0.1259          |       |
| \$ 26 Nitrobenzene-d5          | 82  | 4.751     | 4.763         | -0.012        | 91  | 159819   | 33.9            |       |
| * 36 Naphthalene-d8            | 136 | 5.481     | 5.481         | 0.000         | 99  | 444000   | 40.0            |       |
| 37 Naphthalene                 | 128 | 5.498     | 5.510         | -0.012        | 98  | 12066    | 1.09            |       |
| 42 2-Methylnaphthalene         | 142 | 6.193     | 6.204         | -0.012        | 86  | 4731     | 0.6594          |       |
| \$ 50 2-Fluorobiphenyl         | 172 | 6.563     | 6.569         | -0.006        | 97  | 259936   | 35.1            |       |
| 61 Acenaphthylene              | 152 | 7.087     | 7.092         | -0.005        | 97  | 27827    | 3.10            |       |
| * 63 Acenaphthene-d10          | 164 | 7.228     | 7.233         | -0.005        | 94  | 206106   | 40.0            |       |
| 65 Acenaphthene                | 154 | 7.257     | 7.269         | -0.012        | 96  | 29434    | 5.45            |       |
| 69 Dibenzofuran                | 168 | 7.428     | 7.439         | -0.011        | 96  | 14334    | 1.77            |       |
| 74 Fluorene                    | 166 | 7.763     | 7.775         | -0.012        | 96  | 30174    | 4.78            |       |
| \$ 79 2,4,6-Tribromophenol     | 330 | 7.998     | 8.010         | -0.012        | 94  | 28946    | 25.5            |       |
| * 85 Phenanthrene-d10          | 188 | 8.681     | 8.686         | -0.005        | 99  | 262222   | 40.0            |       |
| 86 Phenanthrene                | 178 | 8.704     | 8.710         | -0.006        | 98  | 379631   | 50.7            |       |
| 87 Anthracene                  | 178 | 8.751     | 8.763         | -0.012        | 98  | 124033   | 16.3            |       |
| 88 Carbazole                   | 167 | 8.910     | 8.916         | -0.006        | 96  | 15670    | 2.40            |       |
| 90 Fluoranthene                | 202 | 9.869     | 9.869         | 0.000         | 97  | 666447   | 92.5            |       |
| 92 Pyrene                      | 202 | 10.086    | 10.092        | -0.006        | 96  | 569891   | 81.3            |       |
| \$ 94 Terphenyl-d14            | 244 | 10.239    | 10.245        | -0.006        | 98  | 159878   | 33.2            |       |
| 99 Benzo[a]anthracene          | 228 | 11.386    | 11.392        | -0.006        | 100 | 283742   | 50.1            |       |
| * 100 Chrysene-d12             | 240 | 11.398    | 11.398        | 0.000         | 99  | 183226   | 40.0            |       |
| 102 Bis(2-ethylhexyl) phthalat | 149 | 11.427    | 11.433        | -0.006        | 51  | 16586    | 4.13            |       |
| 101 Chrysene                   | 228 | 11.433    | 11.439        | -0.006        | 98  | 255644   | 50.7            |       |
| 104 Benzo[b]fluoranthene       | 252 | 12.774    | 12.774        | 0.005         | 98  | 428824   | 60.4            |       |
| 105 Benzo[k]fluoranthene       | 252 | 12.804    | 12.804        | 0.000         | 98  | 175729   | 23.6            |       |
| 106 Benzo[a]pyrene             | 252 | 13.210    | 13.204        | 0.006         | 96  | 349647   | 52.3            |       |
| * 107 Perylene-d12             | 264 | 13.286    | 13.274        | 0.012         | 98  | 240460   | 40.0            |       |
| 108 Indeno[1,2,3-cd]pyrene     | 276 | 14.715    | 14.704        | 0.011         | 99  | 236937   | 37.1            |       |
| 109 Dibenz(a,h)anthracene      | 278 | 14.727    | 14.733        | -0.006        | 93  | 54713    | 9.01            |       |

| Compound | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q | Response | OnCol Amt<br>ug/ml | Flags |
|----------|-----|--------------|------------------|------------------|---|----------|--------------------|-------|
|----------|-----|--------------|------------------|------------------|---|----------|--------------------|-------|

110 Benzo[g,h,i]perylene

276

15.057

15.051

0.006

96

216301

32.6

**Reagents:**

SM\_ISTD\_00106

Amount Added: 20.00

Units: uL

Run Reagent

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS12\\20160311-38301.b\\L131371.D

Injection Date: 11-Mar-2016 11:47:30

Instrument ID: CBNAMS12

Operator ID:

Lims ID: 460-109716-A-1-B

Lab Sample ID: 460-109716-1

Worklist Smp#: 23

Client ID: C1

Injection Vol: 1.0 ul

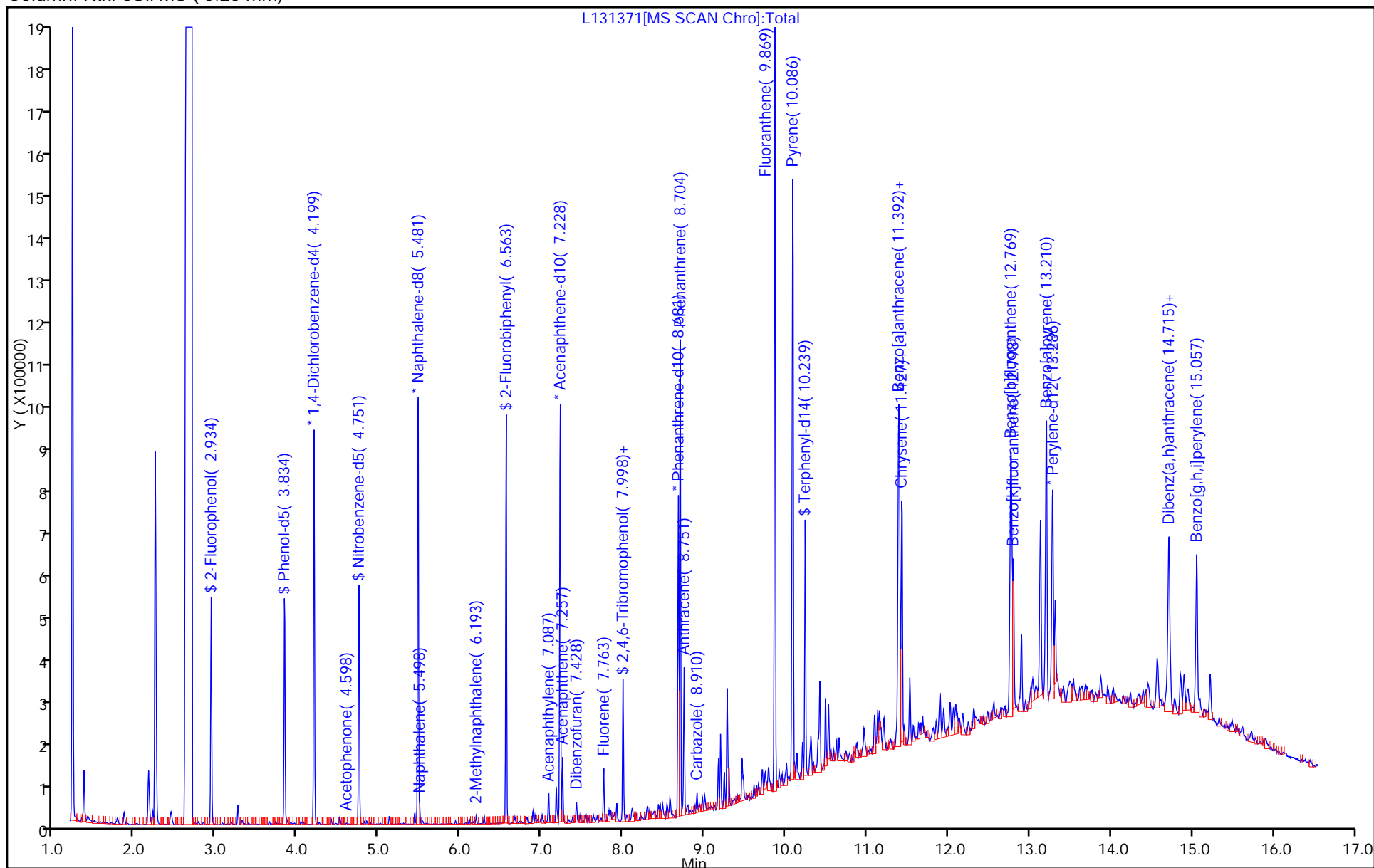
Dil. Factor: 1.0000

ALS Bottle#: 23

Method: 8270\_12R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131371.D

Injection Date: 11-Mar-2016 11:47:30

Instrument ID: CBNAMS12

Lims ID: 460-109716-A-1-B

Lab Sample ID: 460-109716-1

Client ID: C1

Operator ID:

ALS Bottle#:

23

Worklist Smp#:

23

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270\_12R\_9

Limit Group:

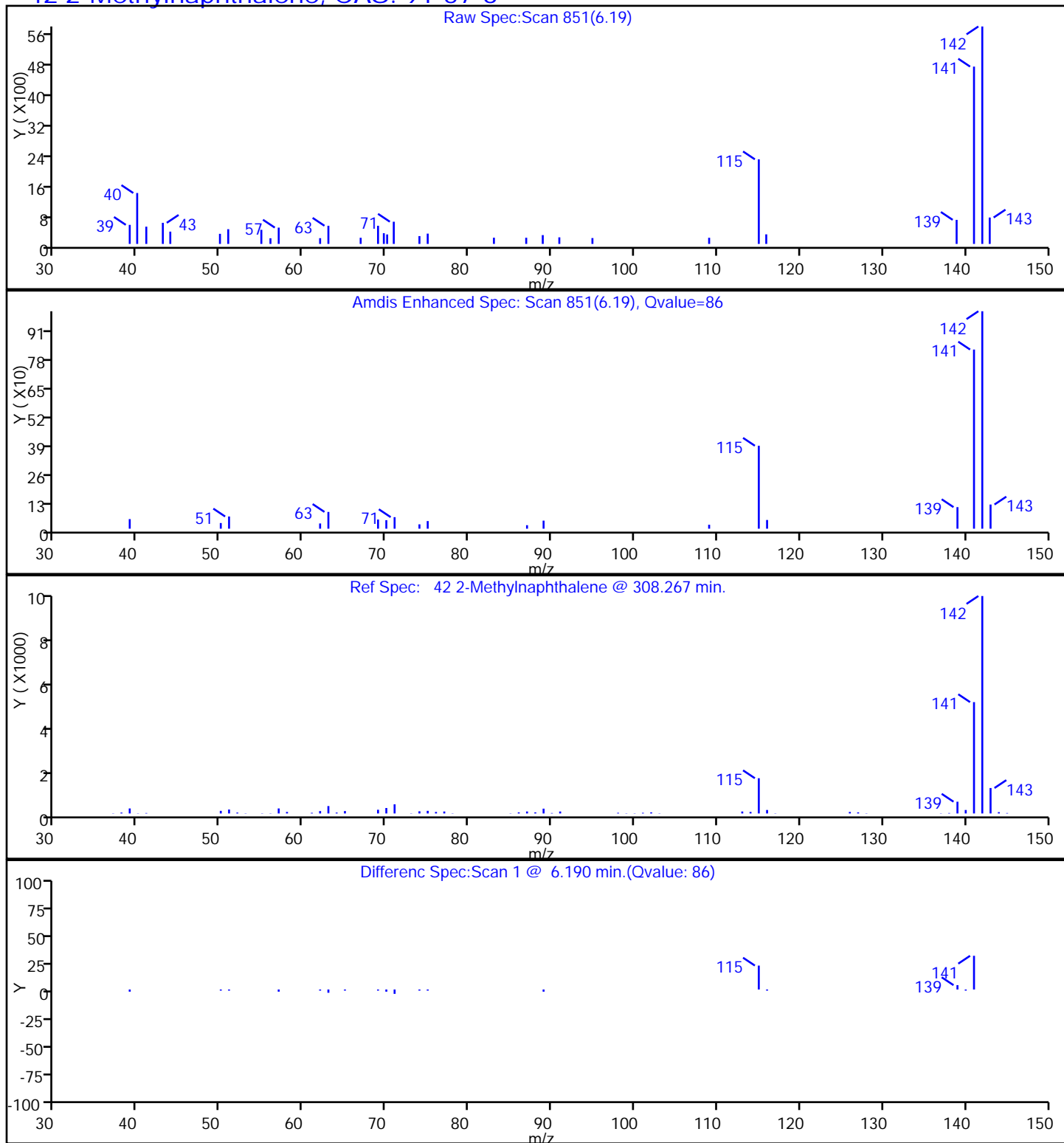
SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

## 42 2-Methylnaphthalene, CAS: 91-57-6





## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131371.D

Injection Date: 11-Mar-2016 11:47:30

Instrument ID: CBNAMS12

Lims ID: 460-109716-A-1-B

Lab Sample ID: 460-109716-1

Client ID: C1

Operator ID:

ALS Bottle#:

23

Worklist Smp#:

23

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270\_12R\_9

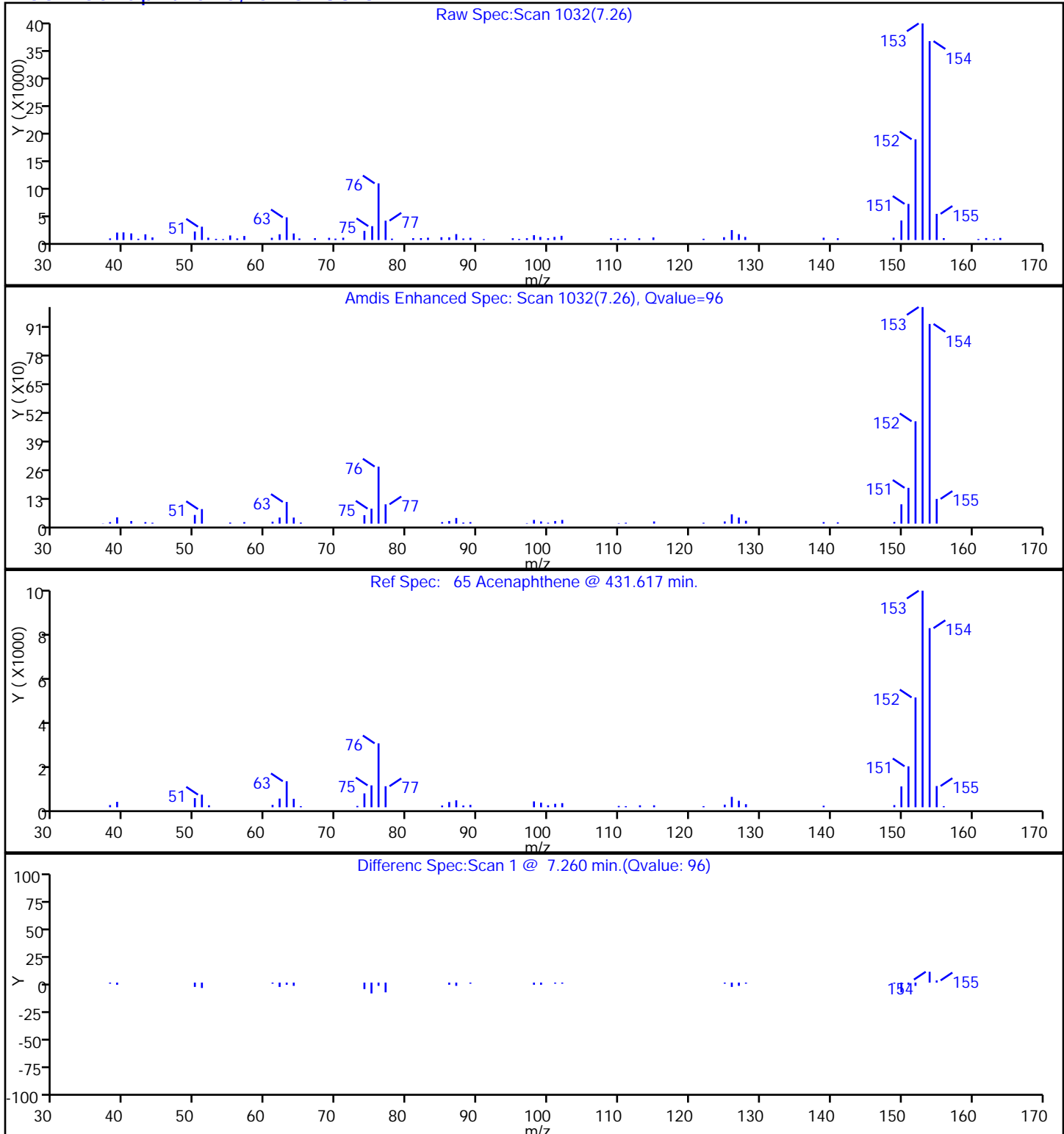
Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

**65 Acenaphthene, CAS: 83-32-9**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131371.D

Injection Date: 11-Mar-2016 11:47:30

Instrument ID: CBNAMS12

Lims ID: 460-109716-A-1-B

Lab Sample ID: 460-109716-1

Client ID: C1

Operator ID:

ALS Bottle#:

23

Worklist Smp#:

23

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270\_12R\_9

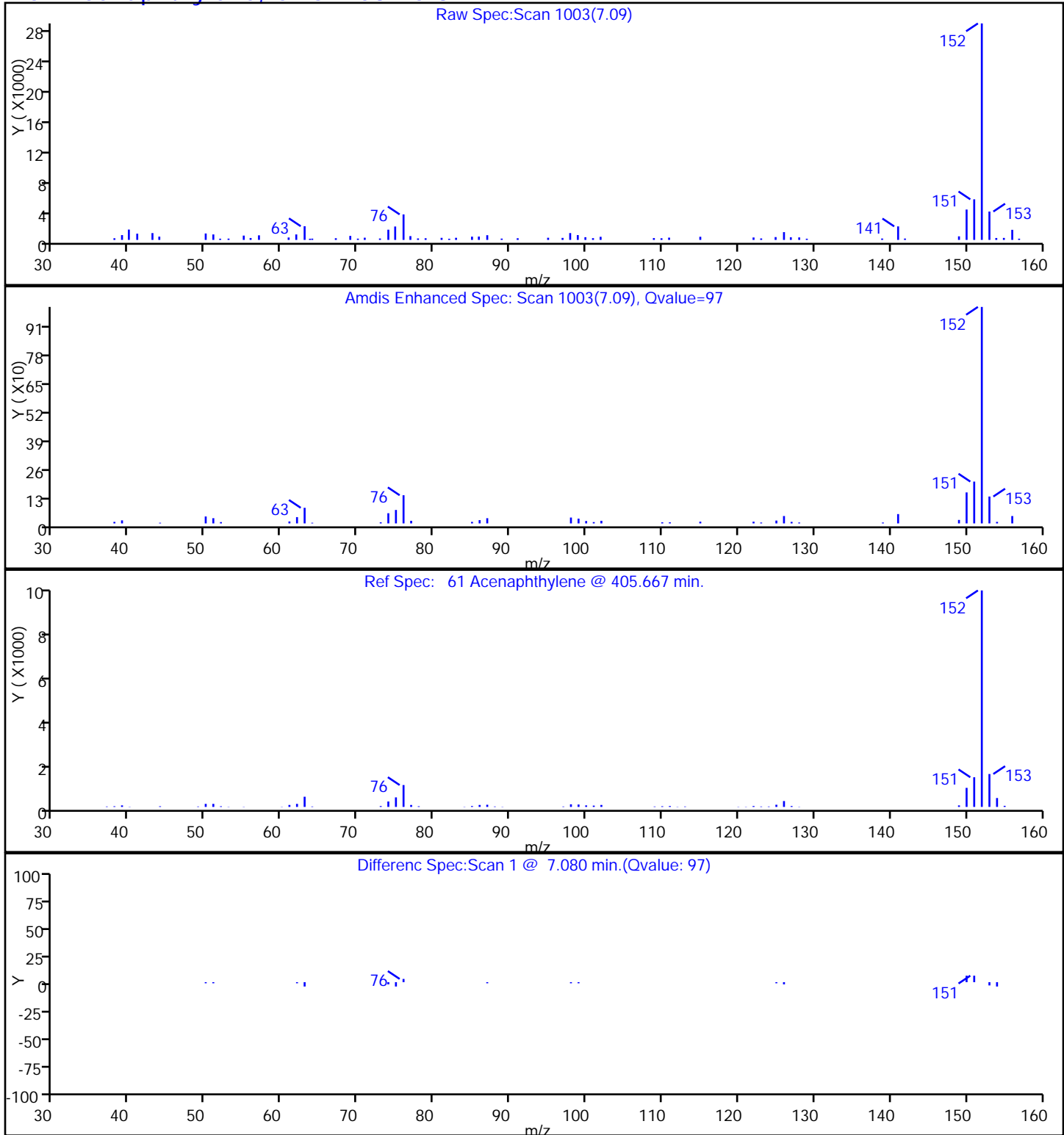
Limit Group:

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\CBNAMS12\20160311-38301.b\L131371.D

Injection Date: 11-Mar-2016 11:47:30

Instrument ID: CBNAMS12

Lims ID: 460-109716-A-1-B

Lab Sample ID: 460-109716-1

Client ID: C1

Operator ID:

ALS Bottle#: 23 Worklist Smp#: 23

Injection Vol: 1.0 ul

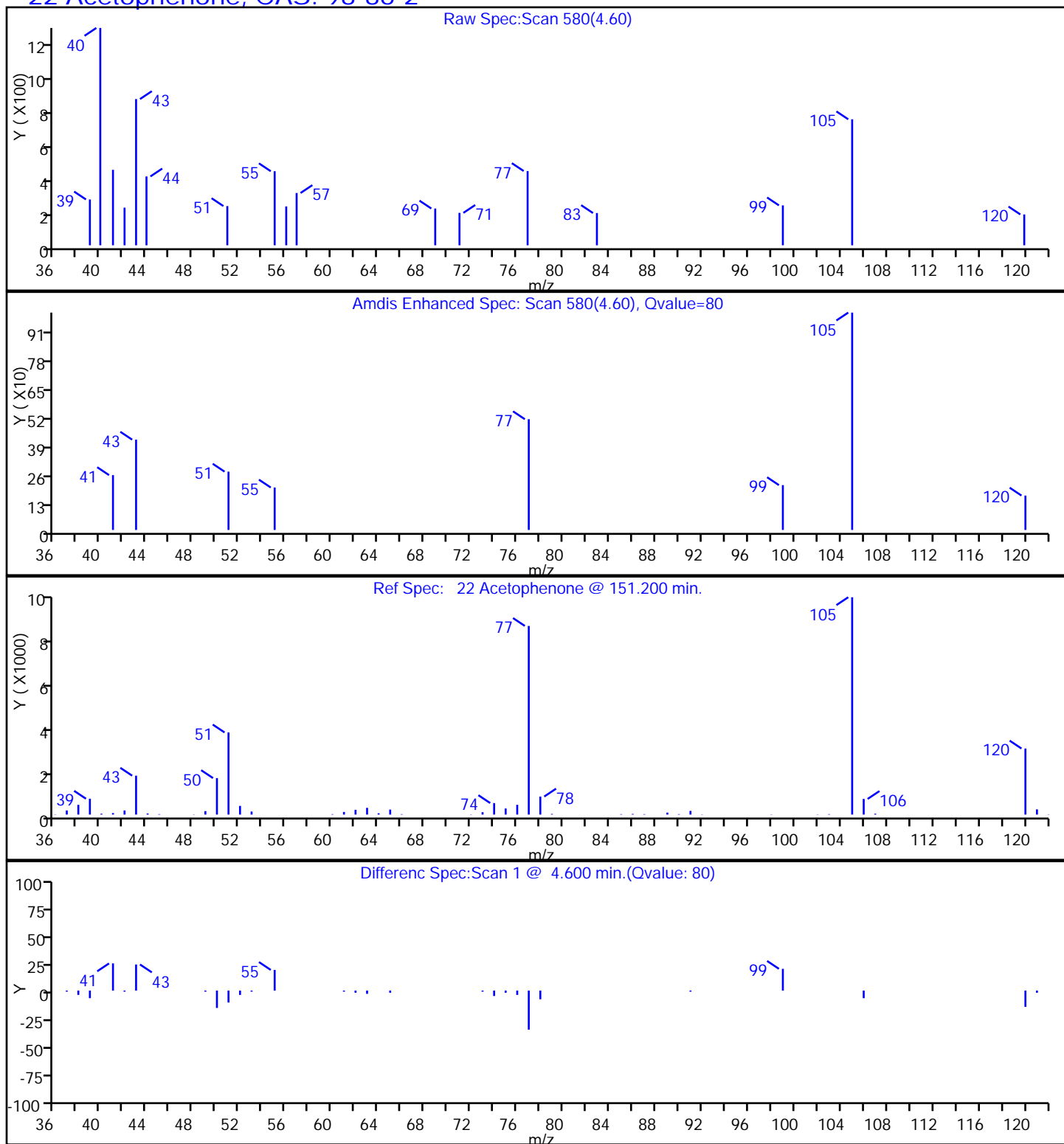
Dil. Factor: 1.0000

Method: 8270\_12R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

**22 Acetophenone, CAS: 98-86-2**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131371.D

Injection Date: 11-Mar-2016 11:47:30

Instrument ID: CBNAMS12

Lims ID: 460-109716-A-1-B

Lab Sample ID: 460-109716-1

Client ID: C1

Operator ID:

ALS Bottle#:

23

Worklist Smp#:

23

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270\_12R\_9

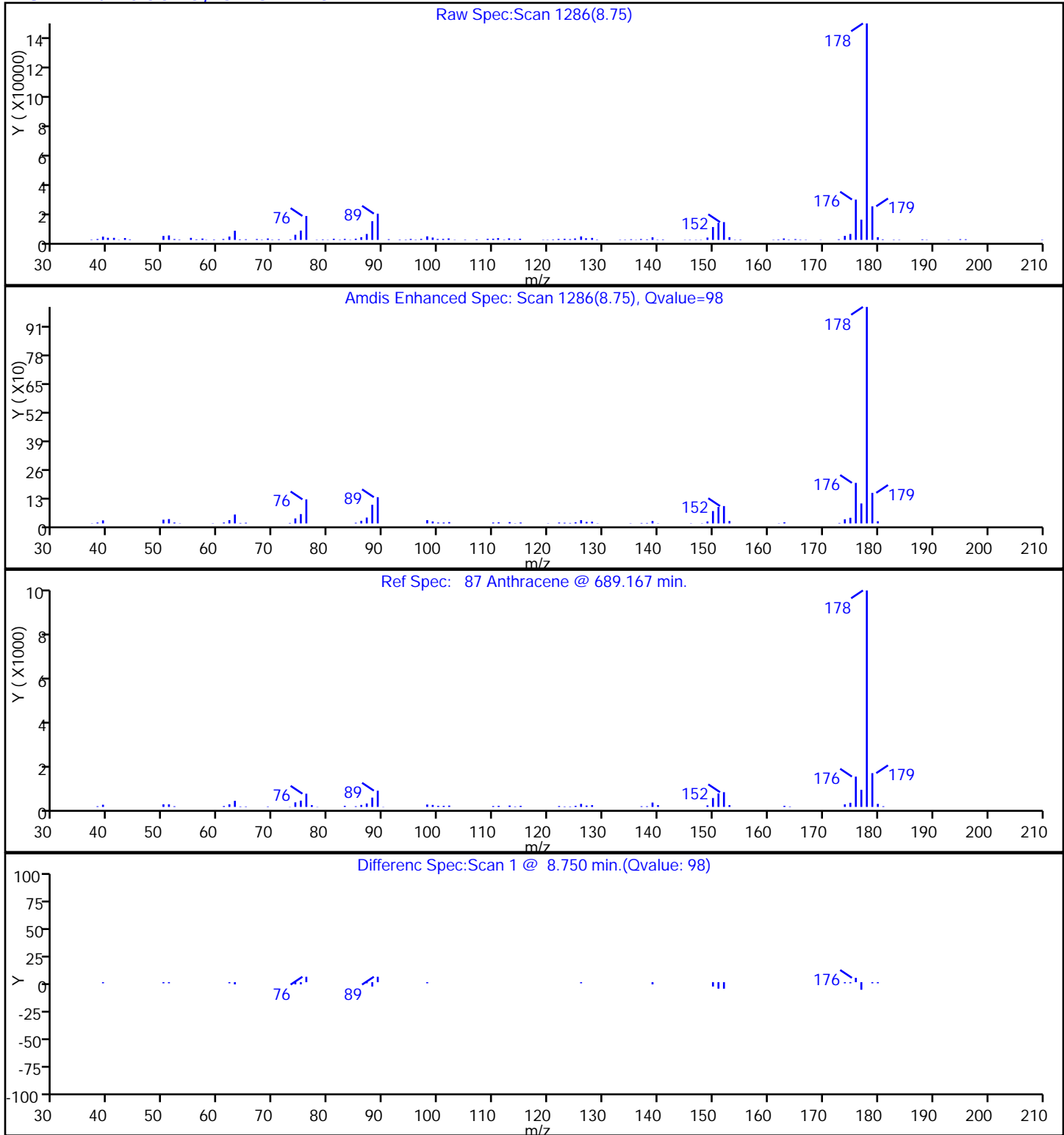
Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

**87 Anthracene, CAS: 120-12-7**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131371.D

Injection Date: 11-Mar-2016 11:47:30

Instrument ID: CBNAMS12

Lims ID: 460-109716-A-1-B

Lab Sample ID: 460-109716-1

Client ID: C1

Operator ID:

ALS Bottle#: 23

Worklist Smp#: 23

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

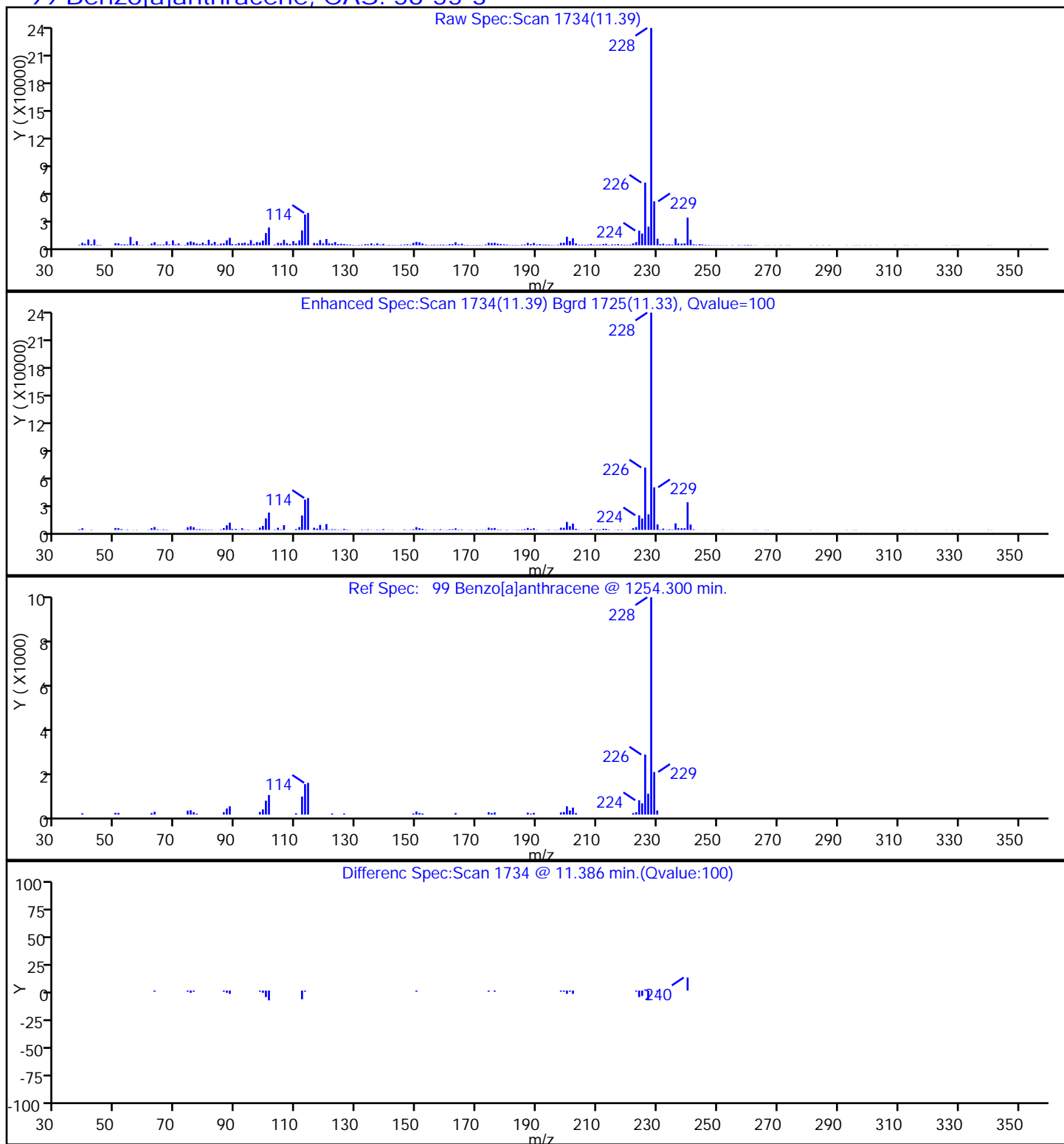
Method: 8270\_12R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

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



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131371.D

Injection Date: 11-Mar-2016 11:47:30

Instrument ID: CBNAMS12

Lims ID: 460-109716-A-1-B

Lab Sample ID: 460-109716-1

Client ID: C1

Operator ID:

ALS Bottle#:

23

Worklist Smp#:

23

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270\_12R\_9

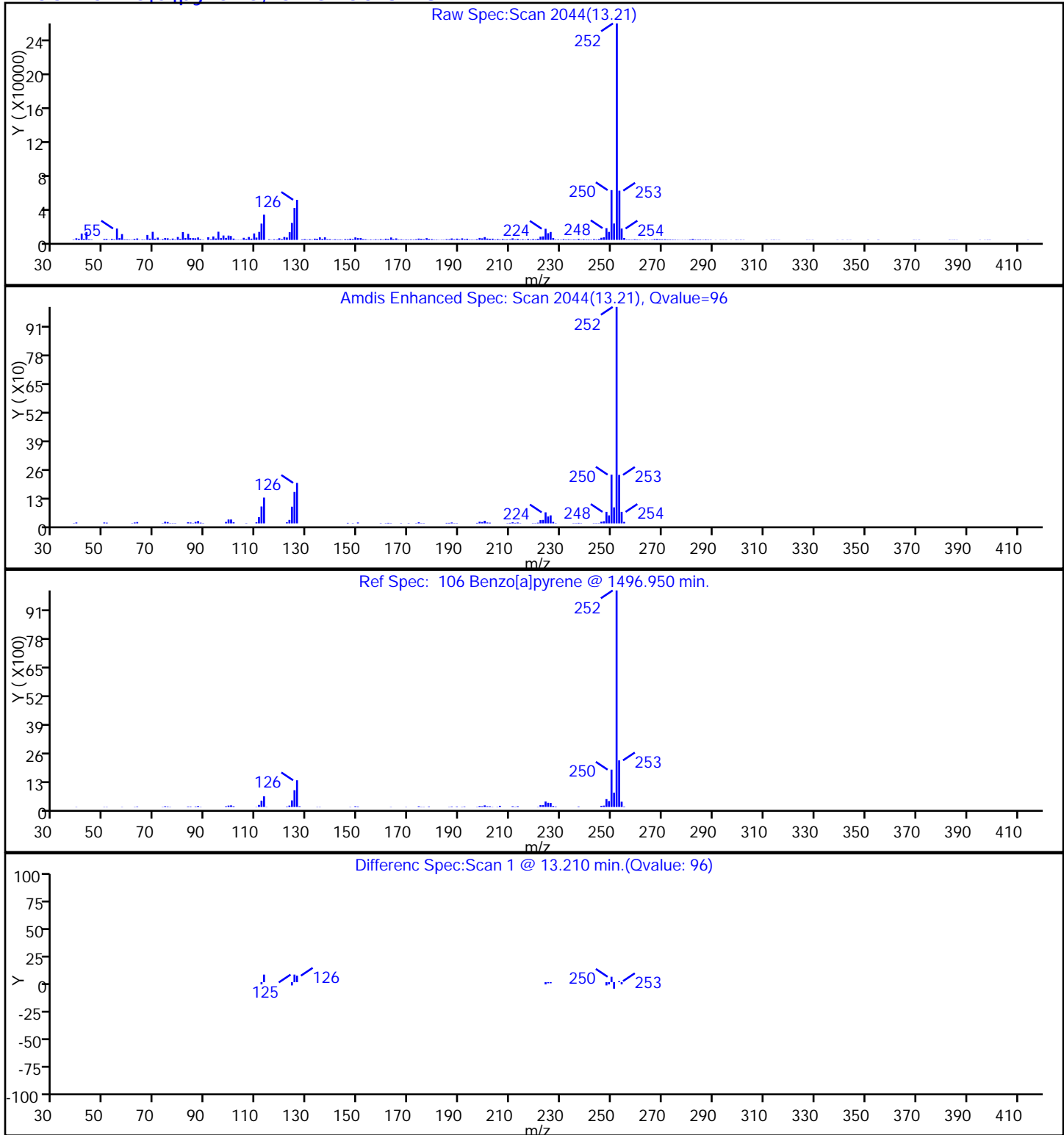
Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

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

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131371.D

Injection Date: 11-Mar-2016 11:47:30

Instrument ID: CBNAMS12

Lims ID: 460-109716-A-1-B

Lab Sample ID: 460-109716-1

Client ID: C1

Operator ID:

ALS Bottle#:

23

Worklist Smp#:

23

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270\_12R\_9

Limit Group:

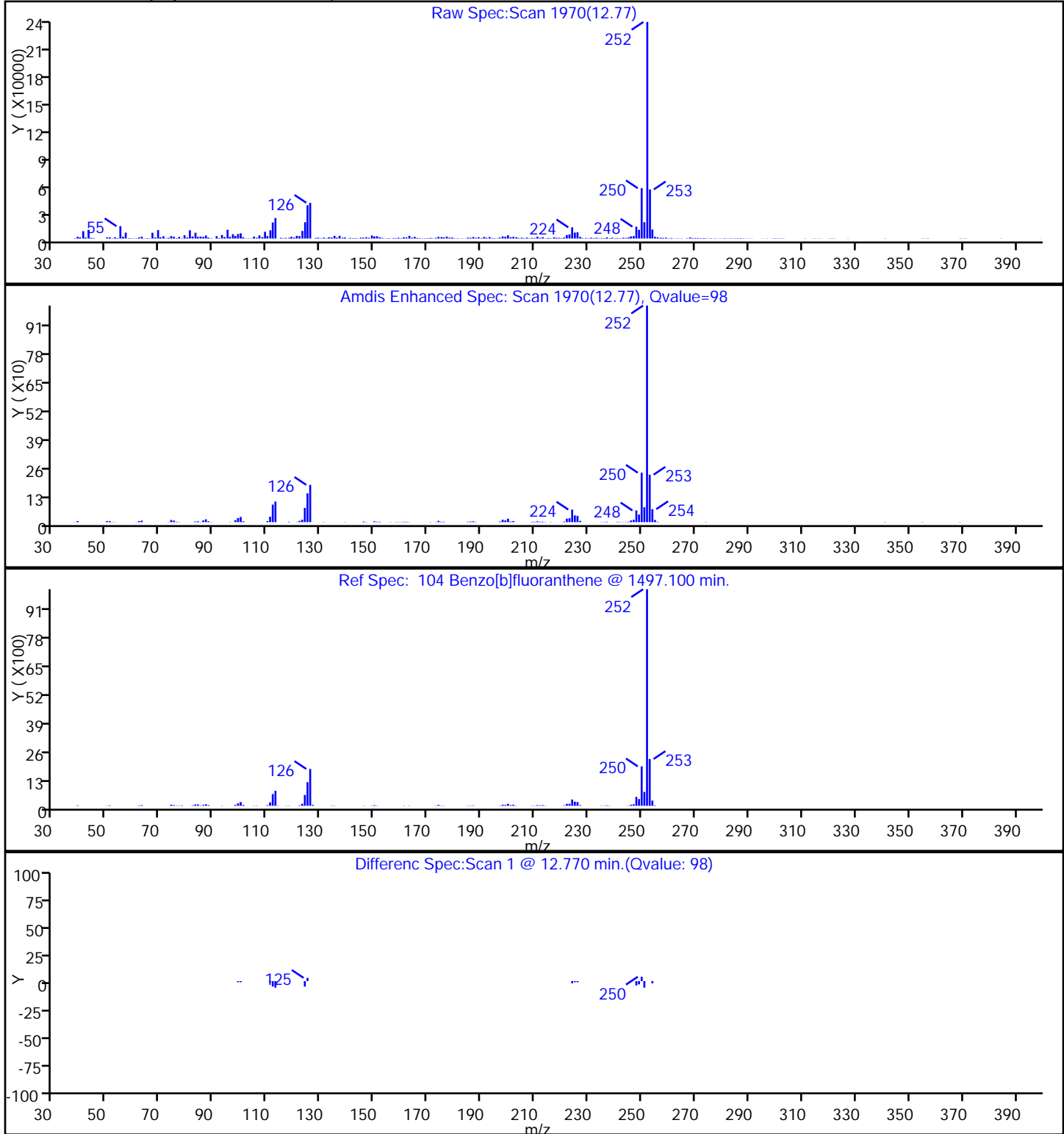
SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

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



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131371.D

Injection Date: 11-Mar-2016 11:47:30

Instrument ID: CBNAMS12

Lims ID: 460-109716-A-1-B

Lab Sample ID: 460-109716-1

Client ID: C1

Operator ID:

ALS Bottle#:

23

Worklist Smp#:

23

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270\_12R\_9

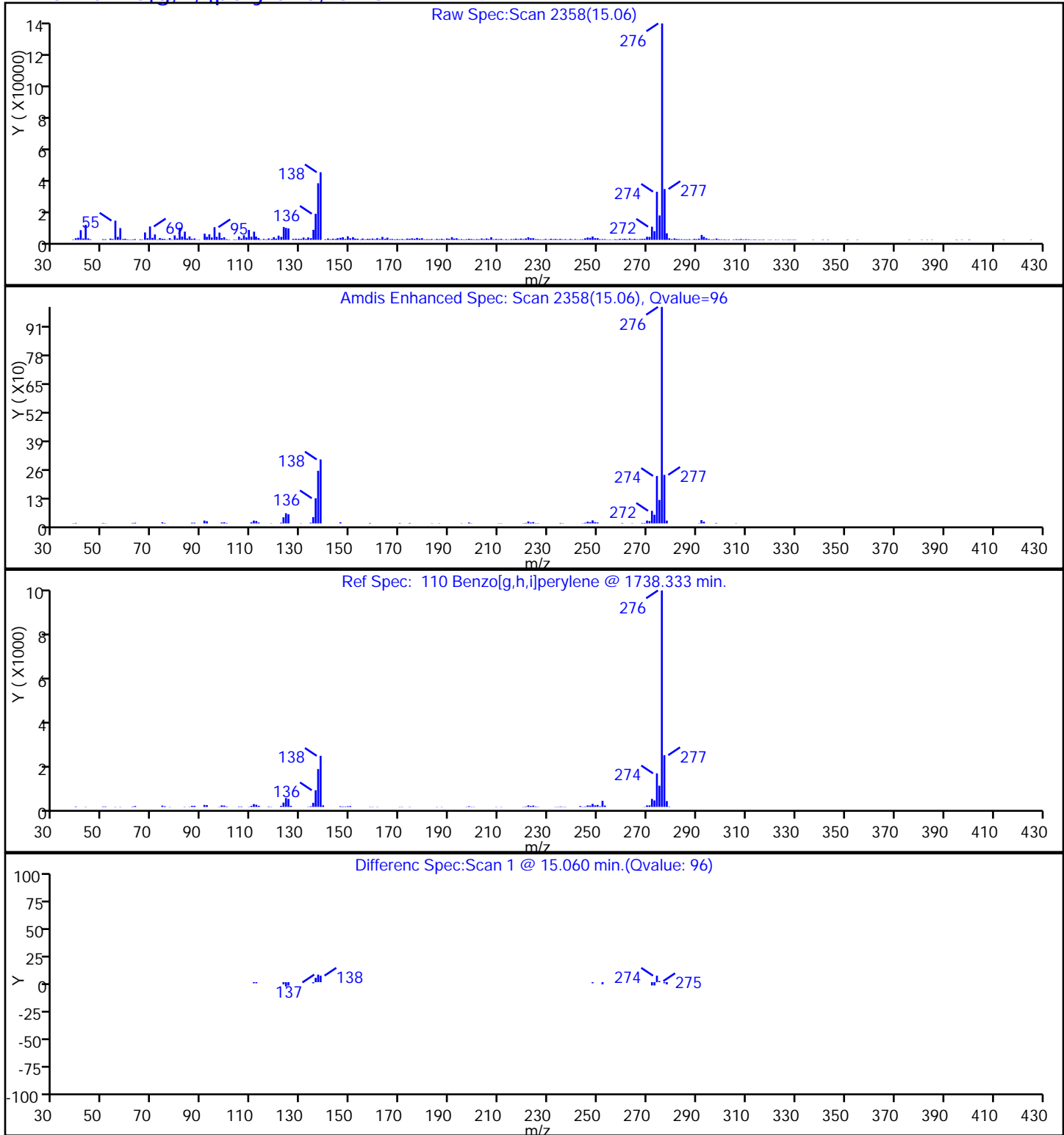
Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

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



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS12\\20160311-38301.b\\L131371.D

Injection Date: 11-Mar-2016 11:47:30

Instrument ID: CBNAMS12

Lims ID: 460-109716-A-1-B

Lab Sample ID: 460-109716-1

Client ID: C1

Operator ID:

ALS Bottle#:

23

Worklist Smp#:

23

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270\_12R\_9

Limit Group:

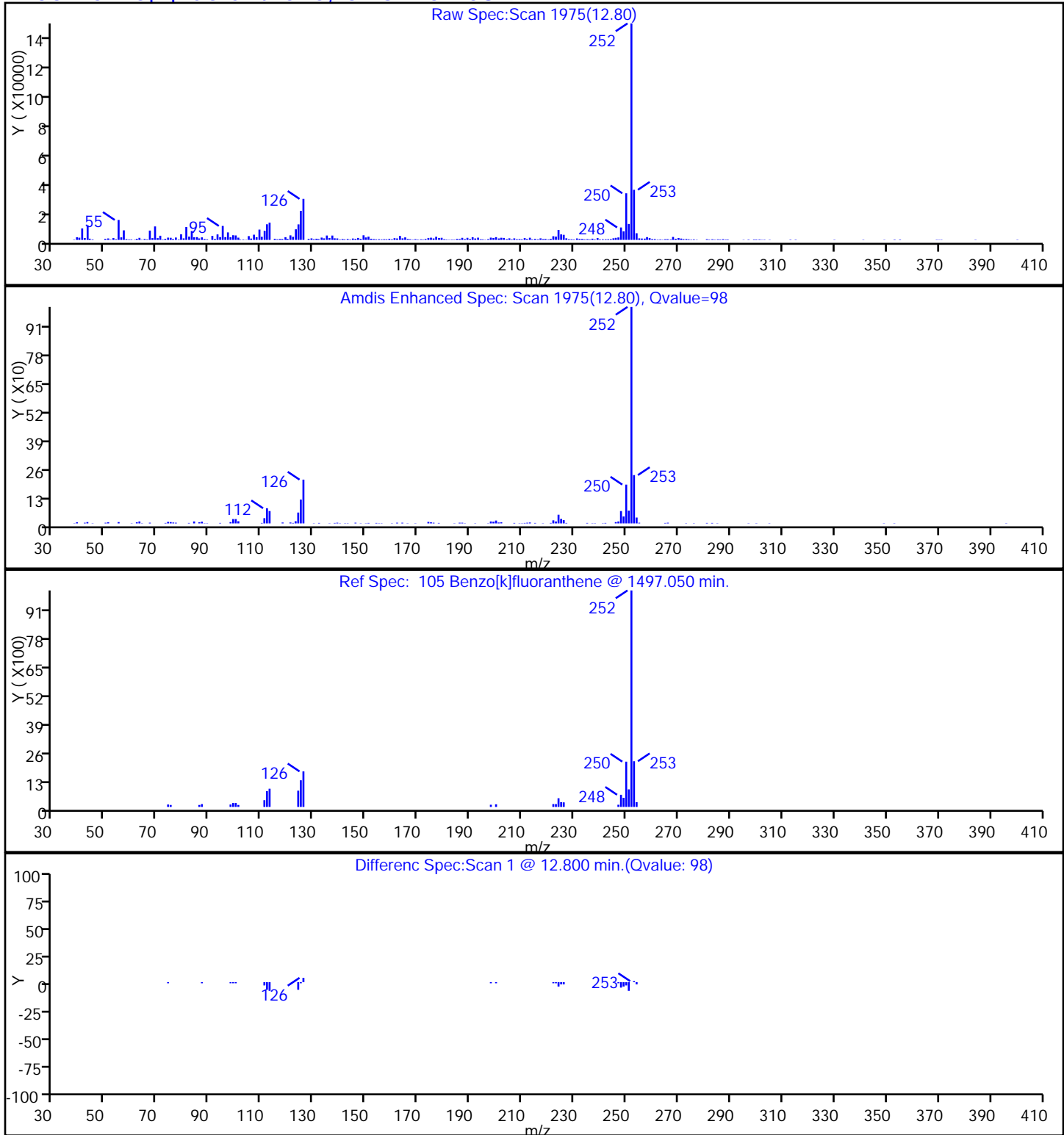
SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

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



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131371.D

Injection Date: 11-Mar-2016 11:47:30

Instrument ID: CBNAMS12

Lims ID: 460-109716-A-1-B

Lab Sample ID: 460-109716-1

Client ID: C1

Operator ID:

ALS Bottle#:

23

Worklist Smp#:

23

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270\_12R\_9

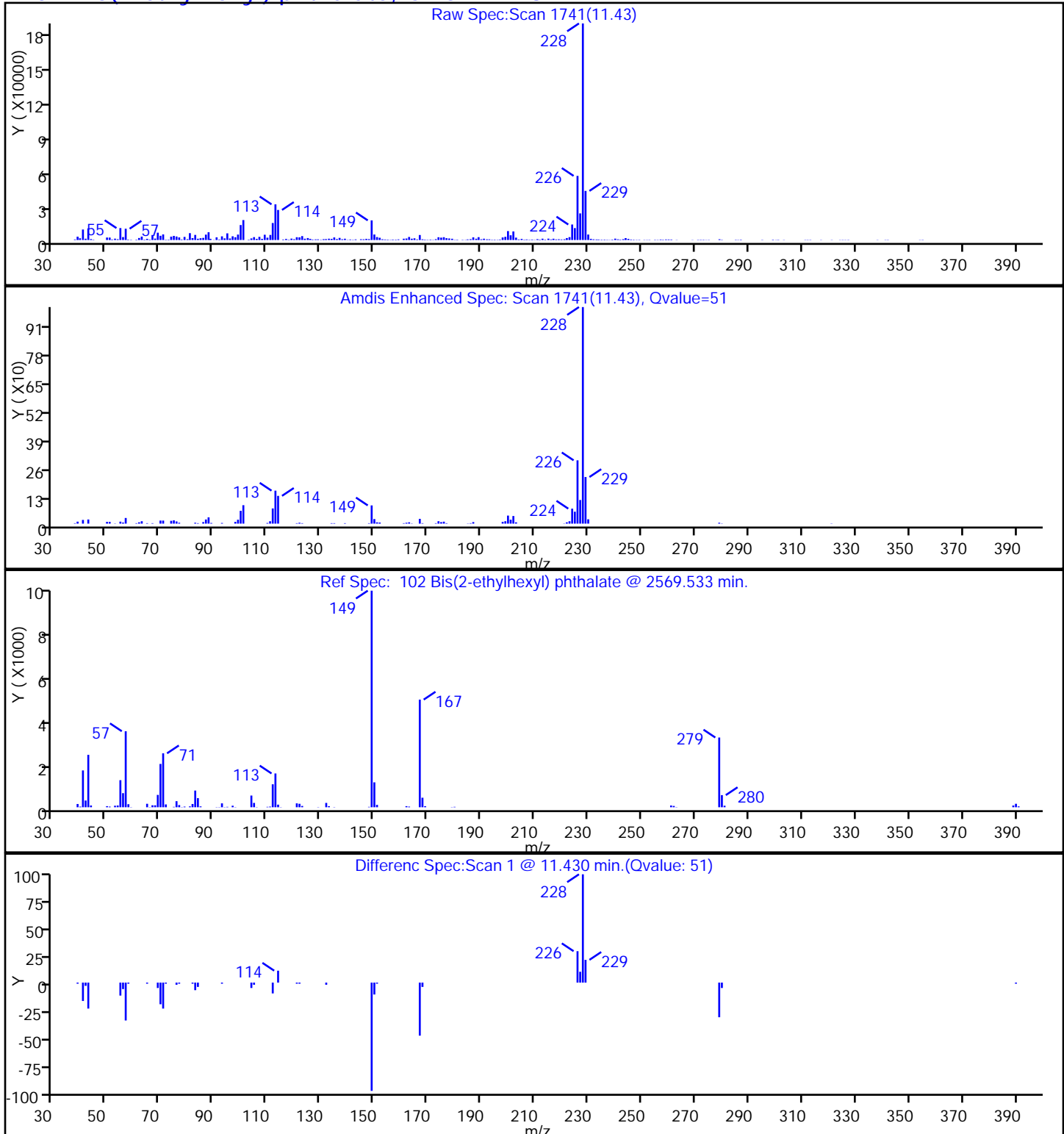
Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

**102 Bis(2-ethylhexyl) phthalate, CAS: 117-81-7**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131371.D

Injection Date: 11-Mar-2016 11:47:30

Instrument ID: CBNAMS12

Lims ID: 460-109716-A-1-B

Lab Sample ID: 460-109716-1

Client ID: C1

Operator ID:

ALS Bottle#:

23

Worklist Smp#:

23

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270\_12R\_9

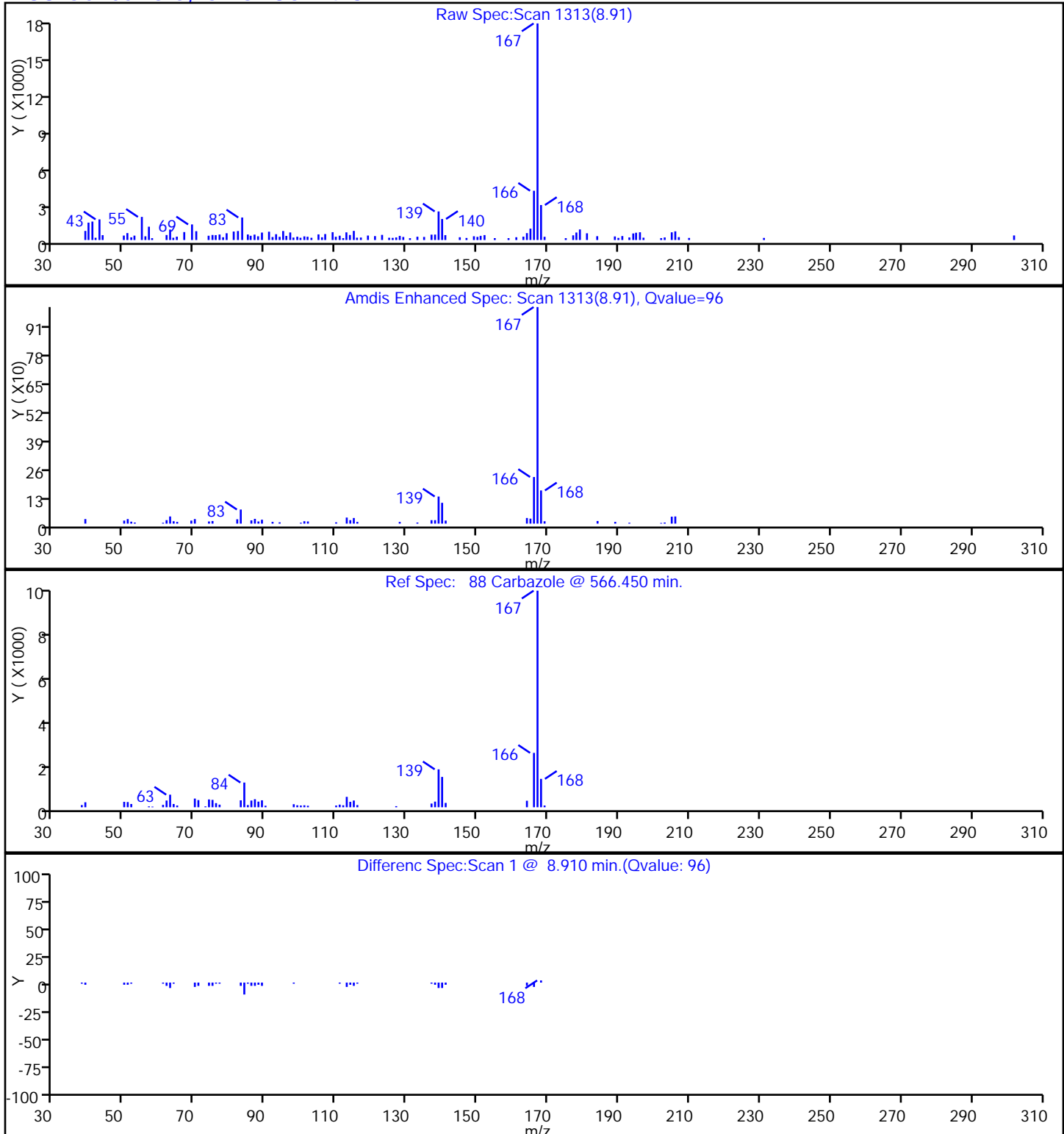
Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

**88 Carbazole, CAS: 86-74-8**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131371.D

Injection Date: 11-Mar-2016 11:47:30

Instrument ID: CBNAMS12

Lims ID: 460-109716-A-1-B

Lab Sample ID: 460-109716-1

Client ID: C1

Operator ID:

ALS Bottle#: 23

Worklist Smp#: 23

Injection Vol: 1.0 ul

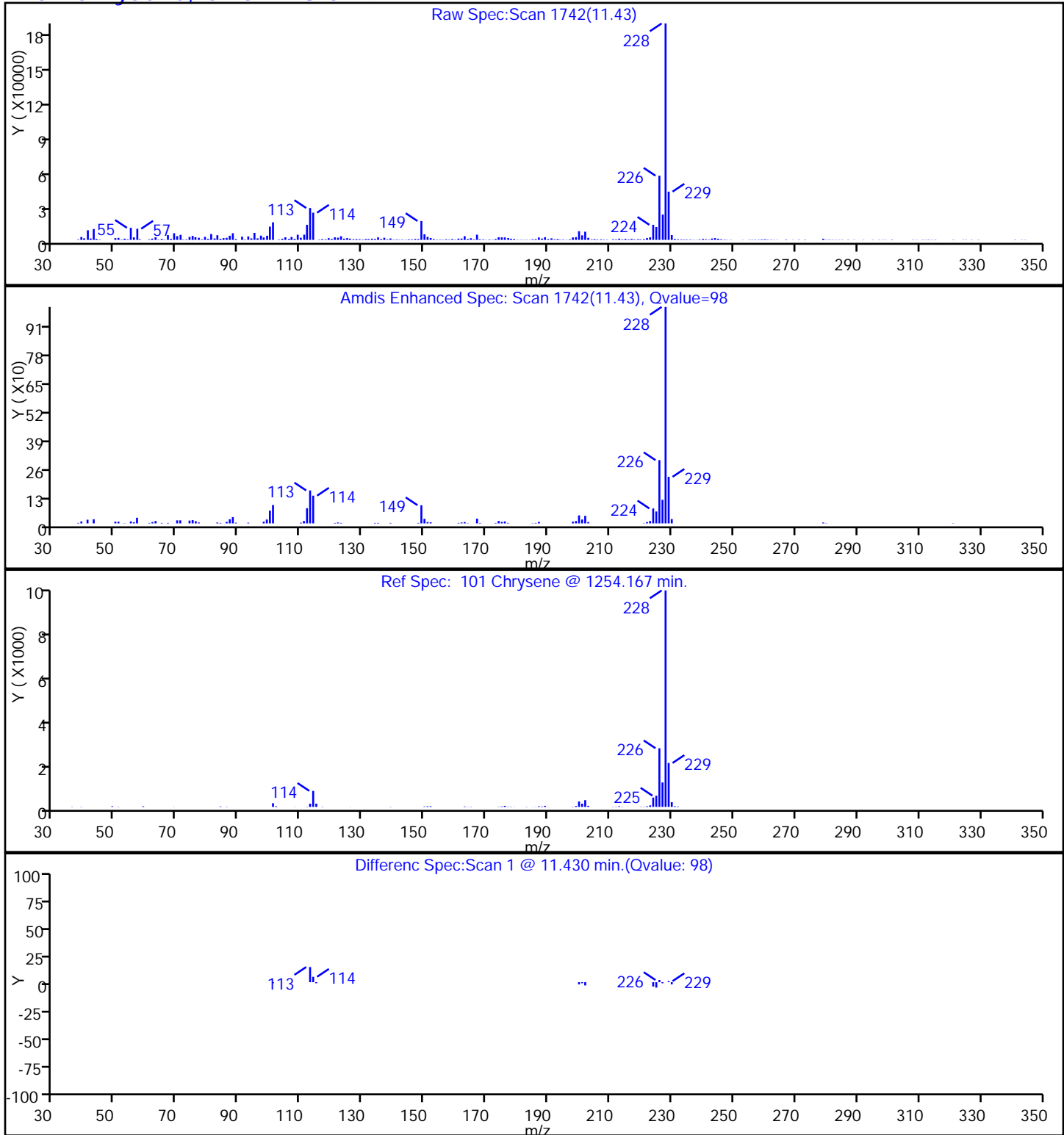
Dil. Factor: 1.0000

Method: 8270\_12R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

**101 Chrysene, CAS: 218-01-9**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131371.D

Injection Date: 11-Mar-2016 11:47:30

Instrument ID: CBNAMS12

Lims ID: 460-109716-A-1-B

Lab Sample ID: 460-109716-1

Client ID: C1

Operator ID:

ALS Bottle#:

23

Worklist Smp#:

23

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270\_12R\_9

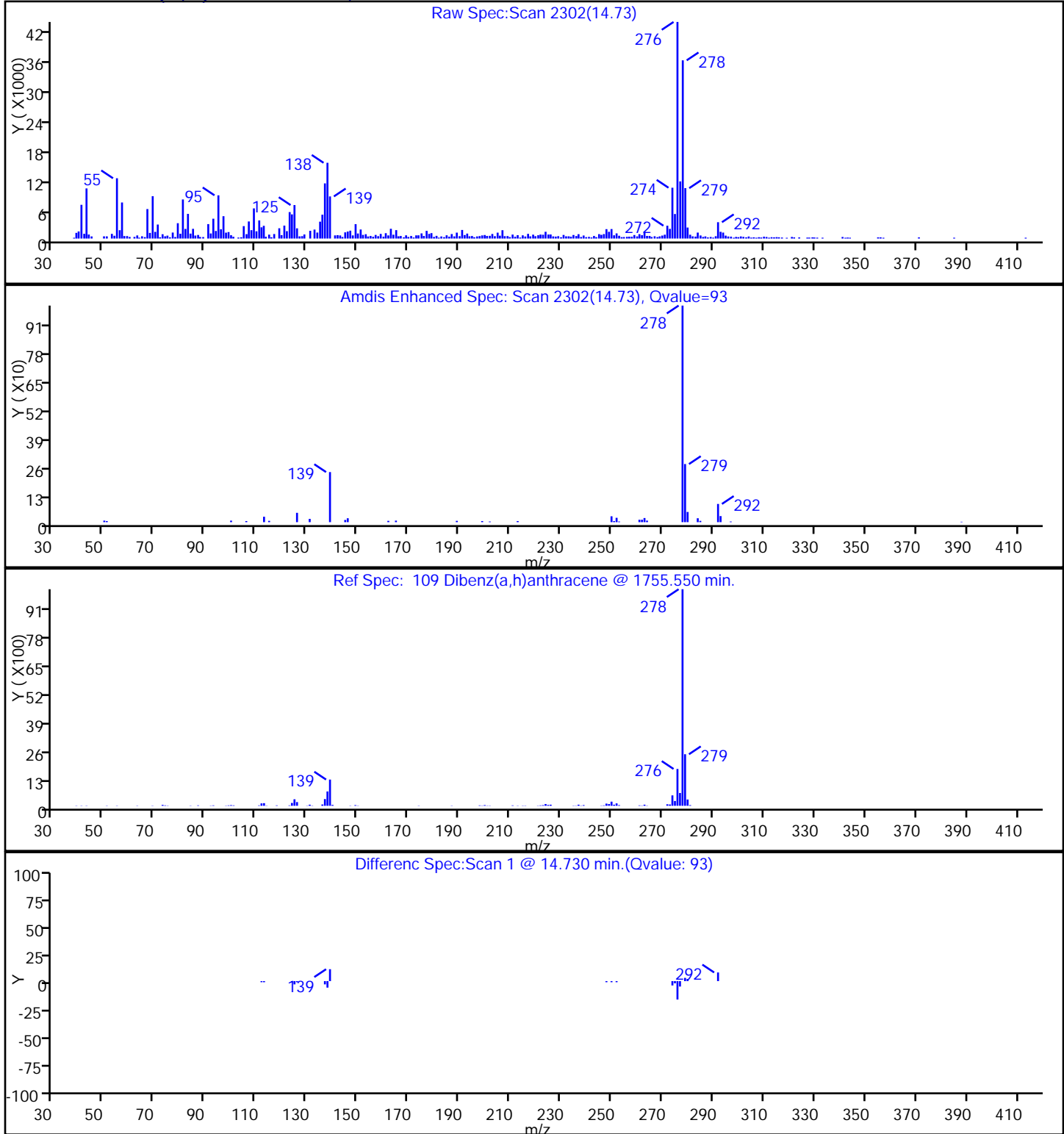
Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

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

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131371.D

Injection Date: 11-Mar-2016 11:47:30

Instrument ID: CBNAMS12

Lims ID: 460-109716-A-1-B

Lab Sample ID: 460-109716-1

Client ID: C1

Operator ID:

ALS Bottle#:

23

Worklist Smp#:

23

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270\_12R\_9

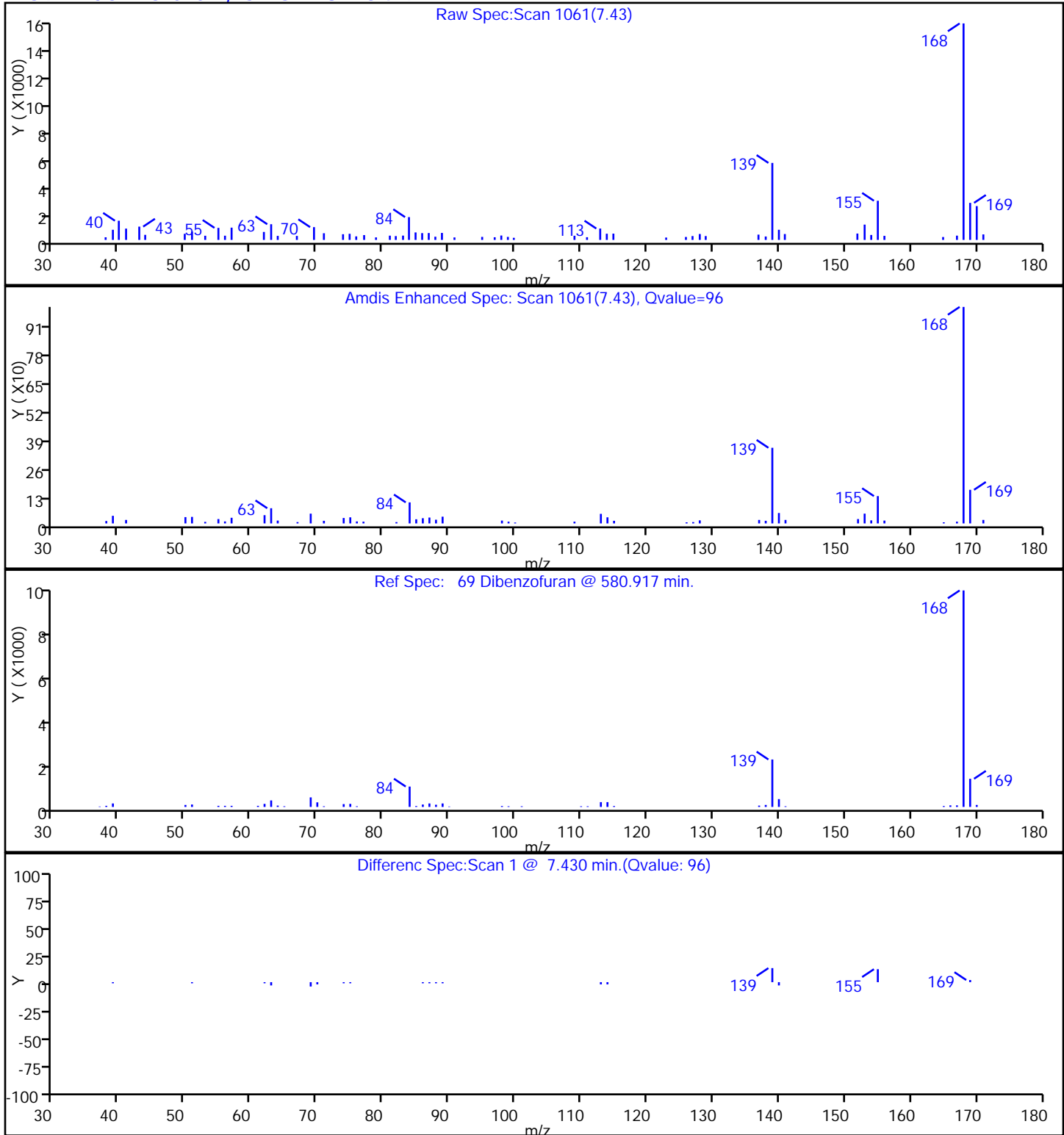
Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

**69 Dibenzofuran, CAS: 132-64-9**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131371.D

Injection Date: 11-Mar-2016 11:47:30

Instrument ID: CBNAMS12

Lims ID: 460-109716-A-1-B

Lab Sample ID: 460-109716-1

Client ID: C1

Operator ID:

ALS Bottle#:

23

Worklist Smp#:

23

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270\_12R\_9

Limit Group:

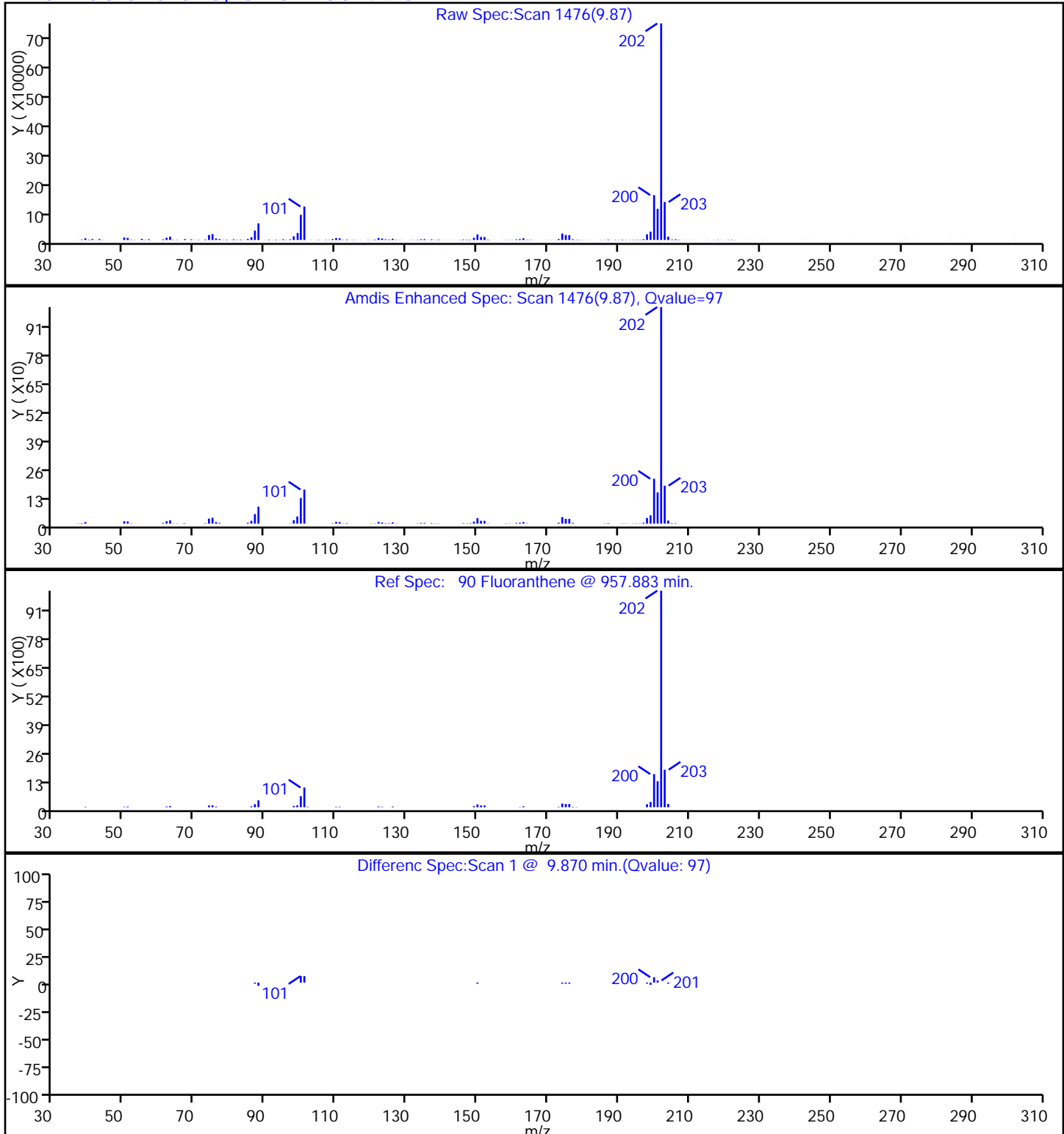
SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

## 90 Fluoranthene, CAS: 206-44-0



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131371.D

Injection Date: 11-Mar-2016 11:47:30

Instrument ID: CBNAMS12

Lims ID: 460-109716-A-1-B

Lab Sample ID: 460-109716-1

Client ID: C1

Operator ID:

ALS Bottle#: 23

Worklist Smp#: 23

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

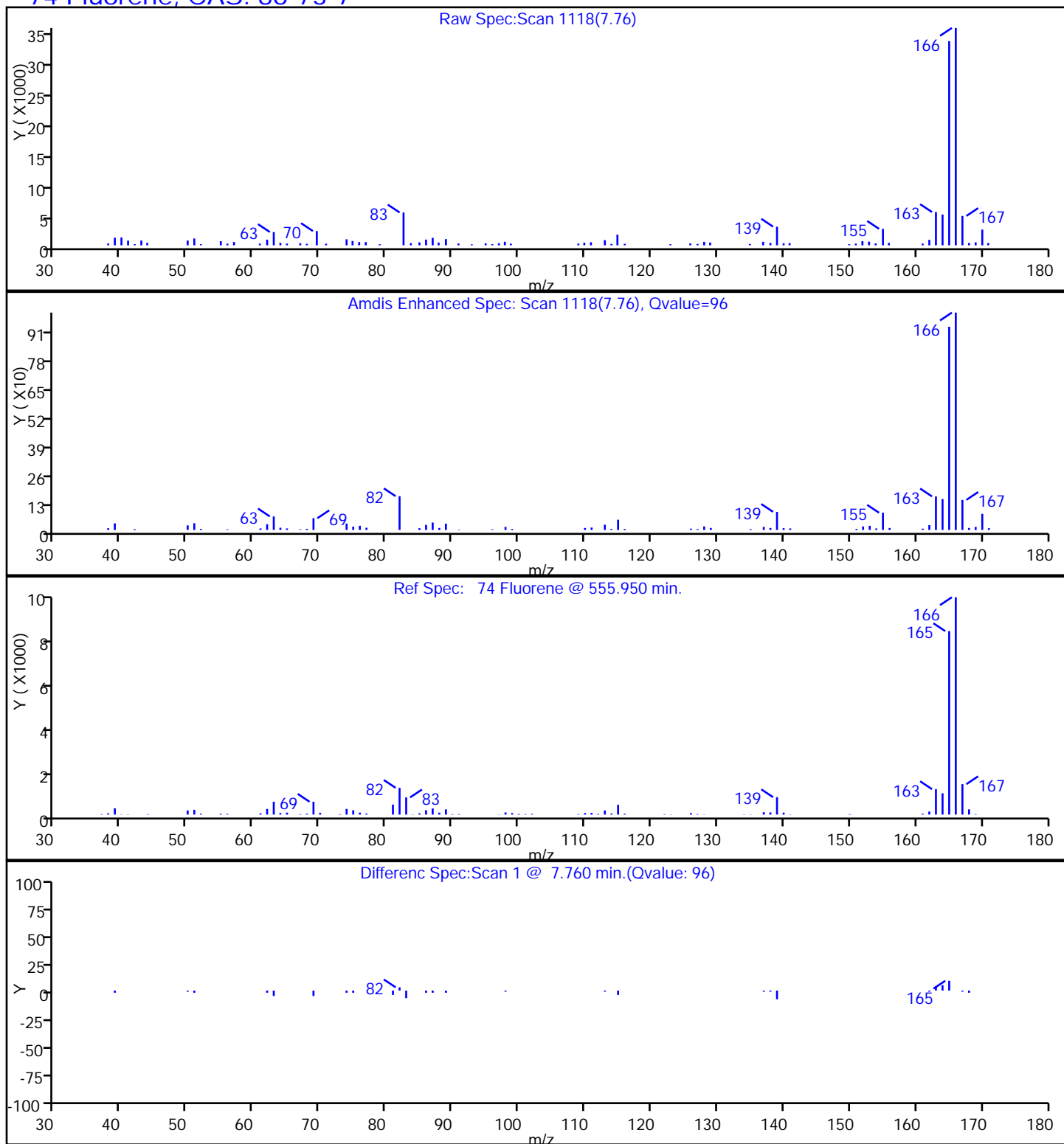
Method: 8270\_12R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector: MS SCAN

## 74 Fluorene, CAS: 86-73-7





## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131371.D

Injection Date: 11-Mar-2016 11:47:30

Instrument ID: CBNAMS12

Lims ID: 460-109716-A-1-B

Lab Sample ID: 460-109716-1

Client ID: C1

Operator ID:

ALS Bottle#:

23

Worklist Smp#:

23

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270\_12R\_9

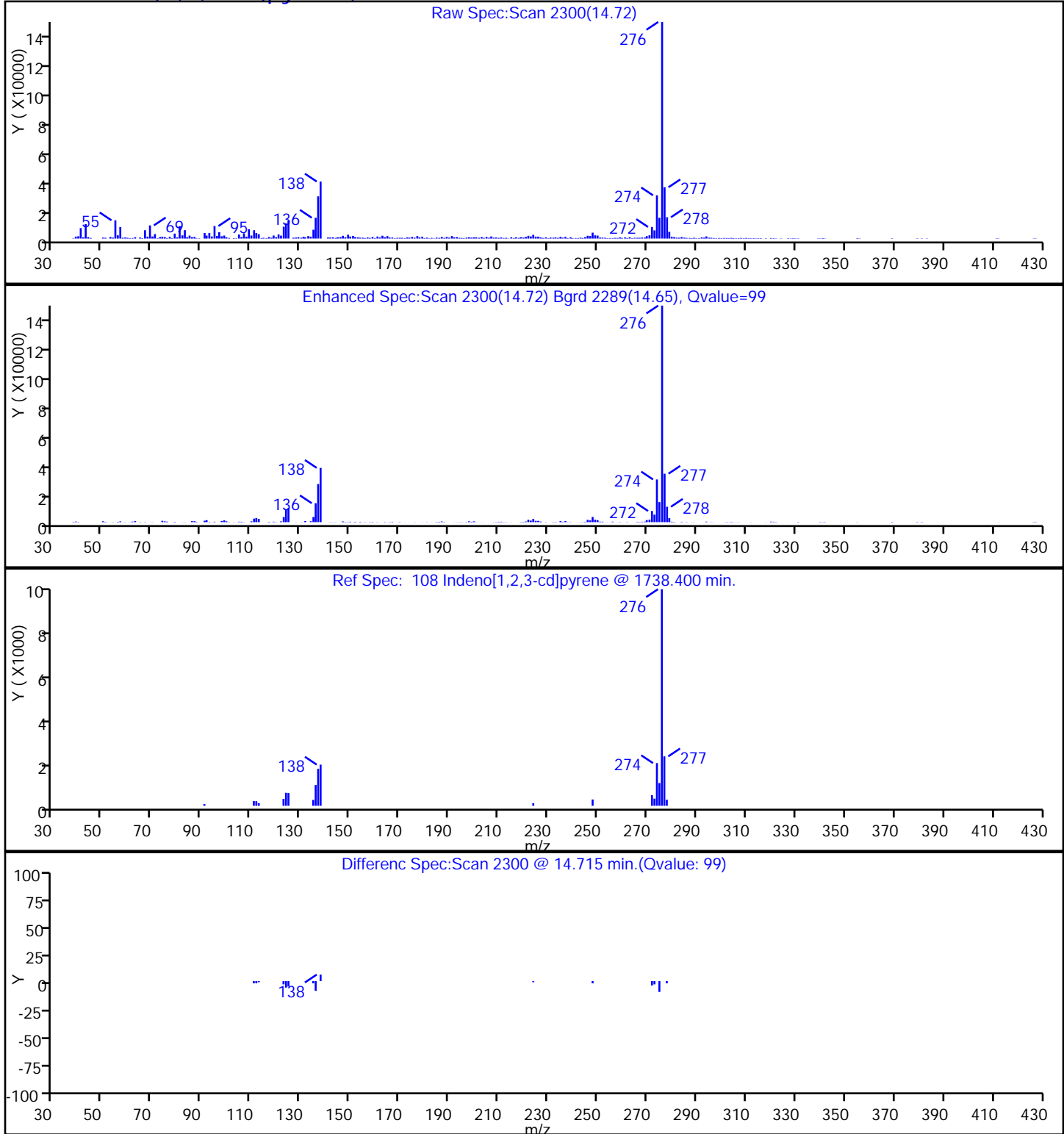
Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

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

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131371.D

Injection Date: 11-Mar-2016 11:47:30

Instrument ID: CBNAMS12

Lims ID: 460-109716-A-1-B

Lab Sample ID: 460-109716-1

Client ID: C1

Operator ID:

ALS Bottle#:

23

Worklist Smp#:

23

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270\_12R\_9

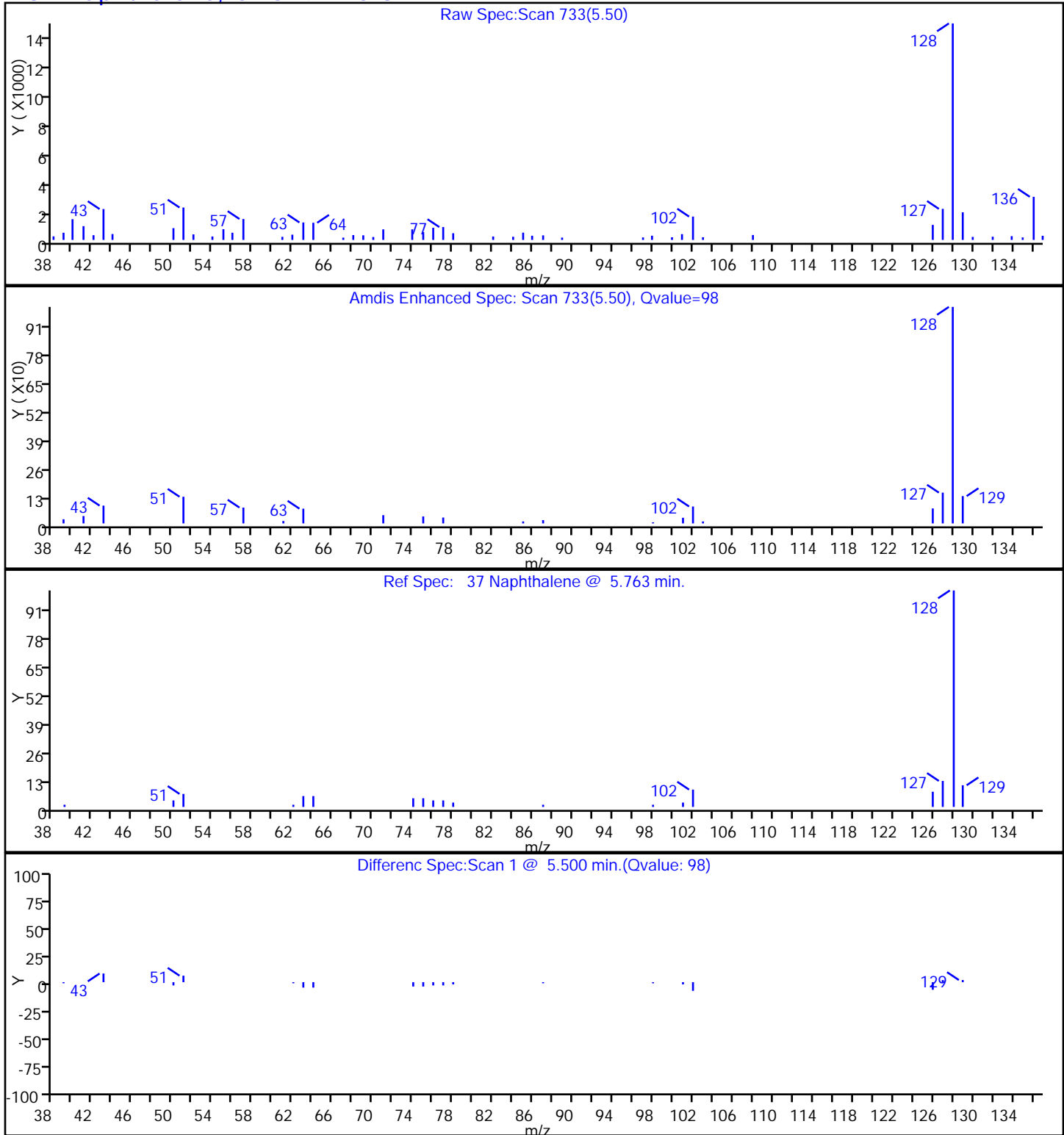
Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

**37 Naphthalene, CAS: 91-20-3**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131371.D

Injection Date: 11-Mar-2016 11:47:30

Instrument ID: CBNAMS12

Lims ID: 460-109716-A-1-B

Lab Sample ID: 460-109716-1

Client ID: C1

Operator ID:

ALS Bottle#:

23

Worklist Smp#:

23

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270\_12R\_9

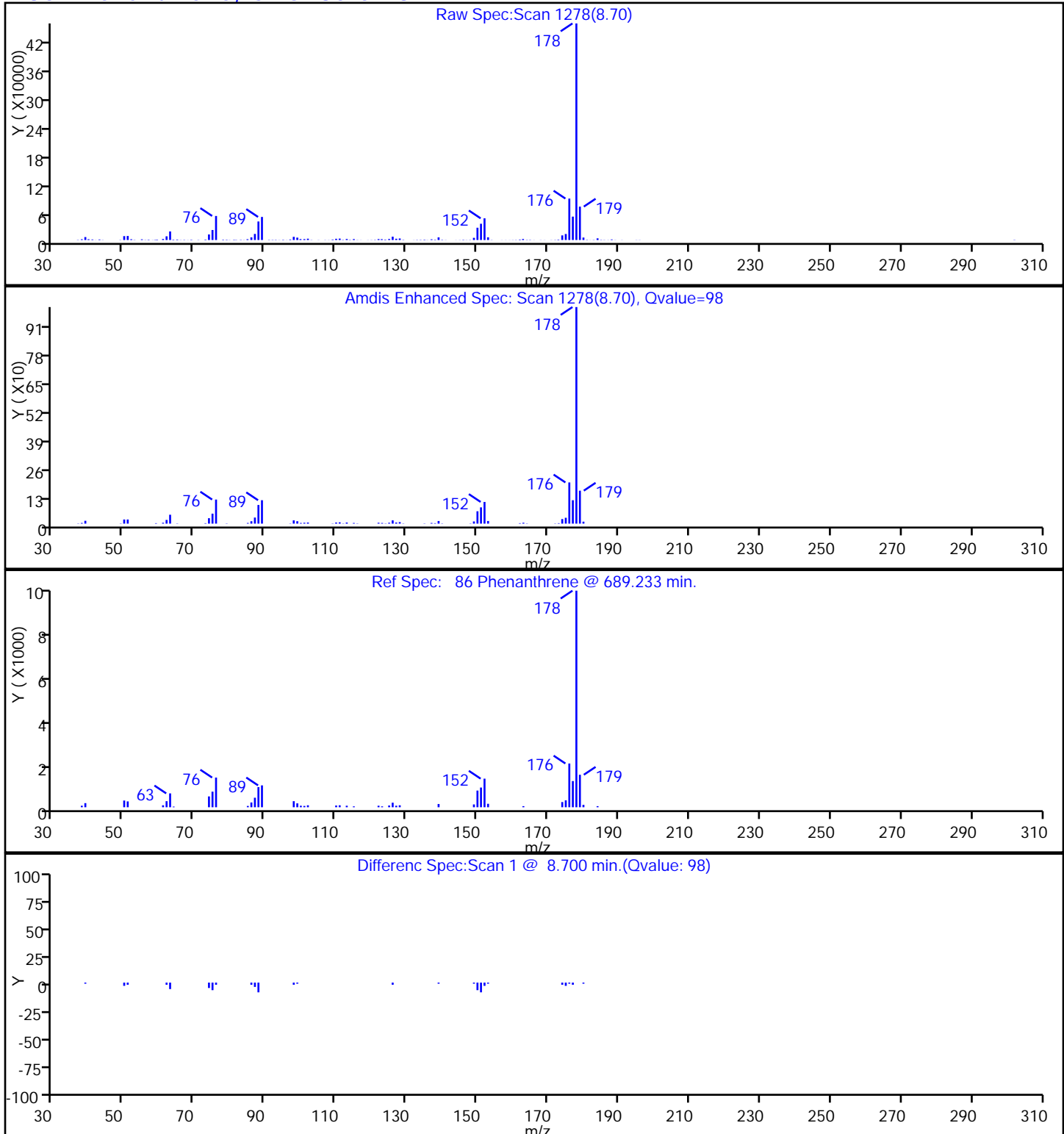
Limit Group:

SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

**86 Phenanthrene, CAS: 85-01-8**

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131371.D

Injection Date: 11-Mar-2016 11:47:30

Instrument ID: CBNAMS12

Lims ID: 460-109716-A-1-B

Lab Sample ID: 460-109716-1

Client ID: C1

Operator ID:

ALS Bottle#:

23

Worklist Smp#:

23

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8270\_12R\_9

Limit Group:

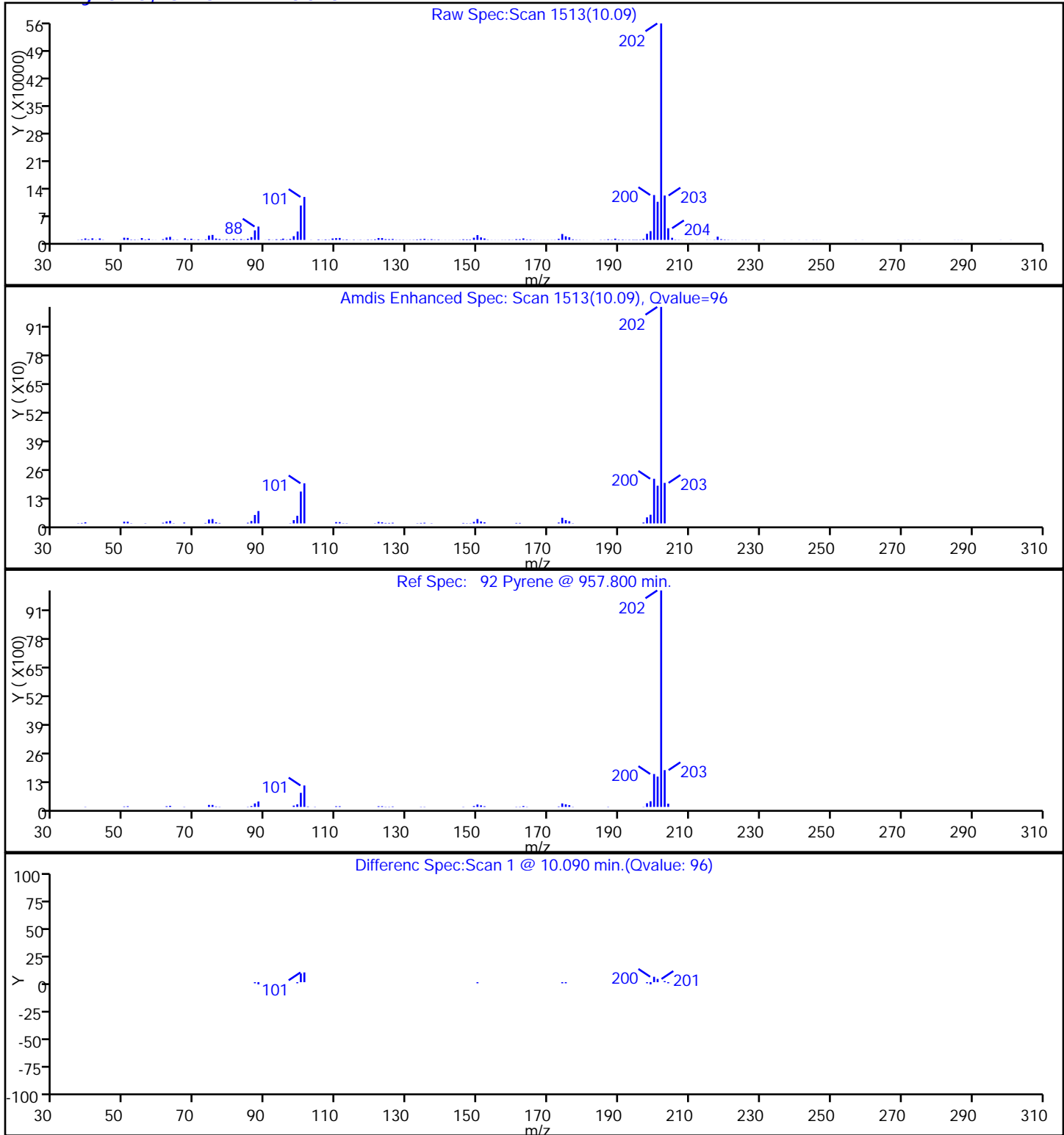
SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)

Detector

MS SCAN

## 92 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.: 460-109716-1 Analy Batch No.: 354905

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS11 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/09/2016 08:34 Calibration End Date: 03/09/2016 11:52 Calibration ID: 54797

Calibration Files:

| LEVEL:  | LAB SAMPLE ID:      | LAB FILE ID: |
|---------|---------------------|--------------|
| Level 1 | STD05 460-354905/10 | z41468.D     |
| Level 2 | STD1 460-354905/9   | z41467.D     |
| Level 3 | STD2 460-354905/8   | z41466.D     |
| Level 4 | STD5 460-354905/7   | z41465.D     |
| Level 5 | STD10 460-354905/6  | z41464.D     |
| Level 6 | STD20 460-354905/5  | z41463.D     |
| Level 7 | ICIS 460-354905/2   | z41460.D     |
| Level 8 | STD80 460-354905/4  | z41462.D     |
| Level 9 | STD120 460-354905/3 | z41461.D     |

| 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            |        |            |             |        |           |   |         |      |   |          |            |   |                |
| 1,4-Dioxane             | 0.6152 | 0.6482 | 0.6143 | 0.6224<br>0.6446 | 0.6218 | Ave        |             | 0.6278 |           |   |         | 2.4  |   | 20.0     |            |   |                |
| N-Nitrosodimethylamine  | 0.8377 | 0.8919 | 0.8515 | 0.8095<br>0.9426 | 0.8672 | Ave        |             | 0.8667 |           |   |         | 5.3  |   | 20.0     |            |   |                |
| Pyridine                | 1.4197 | 1.5718 | 1.4954 | 1.5018<br>1.6458 | 1.4240 | Ave        |             | 1.5098 |           |   |         | 5.8  |   | 20.0     |            |   |                |
| Phenol                  | 1.7903 | 1.8298 | 1.7890 | 1.7210<br>1.9624 | 1.7966 | Ave        |             | 1.8148 |           |   | 0.8000  | 4.4  |   | 20.0     |            |   |                |
| Aniline                 | 1.9163 | 2.0540 | 2.0055 | 1.8616<br>2.1739 | 1.9662 | Ave        |             | 1.9963 |           |   |         | 5.5  |   | 20.0     |            |   |                |
| Bis(2-chloroethyl)ether | 1.3953 | 1.3836 | 1.3621 | 1.2725<br>1.6153 | 1.3434 | Ave        |             | 1.3868 |           |   | 0.7000  | 6.8  |   | 20.0     |            |   |                |
| 2-Chlorophenol          | 1.3346 | 1.3953 | 1.3793 |                  |        |            |             |        |           |   |         |      |   |          |            |   |                |
|                         | 1.3571 | 1.3607 | 1.3423 | 1.3111<br>1.3974 | 1.3560 | Ave        |             | 1.3541 |           |   | 0.8000  | 2.1  |   | 20.0     |            |   |                |
| n-Decane                |        |        |        | 1.7862<br>1.5272 | 1.8355 | Ave        |             | 1.7215 |           |   |         | 7.2  |   | 20.0     |            |   |                |
| 1,3-Dichlorobenzene     | 1.8119 | 1.7563 | 1.6117 | 1.5212<br>1.6051 | 1.5857 | Ave        |             | 1.5591 |           |   |         | 2.1  |   | 20.0     |            |   |                |
| 1,4-Dichlorobenzene     | 1.5592 | 1.5575 | 1.5259 |                  |        |            |             |        |           |   |         |      |   |          |            |   |                |
|                         | 1.5925 | 1.5650 | 1.5430 | 1.5694<br>1.6298 | 1.6062 | Ave        |             | 1.5843 |           |   |         | 2.0  |   | 20.0     |            |   |                |
| Benzyl alcohol          |        |        |        | 0.4656<br>0.8046 | 0.5739 | Qua        | -1.790      | 0.7048 | 0.0009268 |   |         |      |   |          | 0.9970     |   | 0.9900         |
|                         | 0.5168 | 0.7737 | 0.7320 |                  |        |            |             |        |           |   |         |      |   |          |            |   |                |
| 1,2-Dichlorobenzene     |        |        |        | 1.4440<br>1.5091 | 1.4759 | Ave        |             | 1.4613 |           |   |         | 1.9  |   | 20.0     |            |   |                |
|                         | 1.4628 | 1.4414 | 1.4346 |                  |        |            |             |        |           |   |         |      |   |          |            |   |                |
| 2-Methylphenol          |        |        |        | 1.0976<br>1.2923 | 1.1683 | Ave        |             | 1.1998 |           |   | 0.7000  | 5.4  |   | 20.0     |            |   |                |
|                         | 1.2000 | 1.2154 | 1.2252 |                  |        |            |             |        |           |   |         |      |   |          |            |   |                |

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.: 460-109716-1 Analy Batch No.: 354905  
SDG No.: \_\_\_\_\_  
Instrument ID: CBNAMS11 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 03/09/2016 08:34 Calibration End Date: 03/09/2016 11:52 Calibration ID: 54797

| ANALYTE                      | RRF              |                  |                  |                  |        | CURVE<br>TYPE | COEFFICIENT |        |           | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|------------------------------|------------------|------------------|------------------|------------------|--------|---------------|-------------|--------|-----------|---|---------|------|---|-------------|---------------|---|-------------------|
|                              | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4<br>LVL 9   | LVL 5  |               | B           | M1     | M2        |   |         |      |   |             |               |   |                   |
| 2,2'-oxybis[1-chloropropane] | 1.9245           | 1.9079           | 1.8007           | 1.9547<br>1.8411 | 2.0233 | Ave           |             | 1.9087 |           |   | 0.0100  | 4.2  |   | 20.0        |               |   |                   |
| N-Nitrosodi-n-propylamine    | 0.9021<br>0.8517 | 0.8987<br>0.9088 | 0.9472<br>0.8323 | 0.8226<br>0.9876 | 0.8847 | Ave           |             | 0.8928 |           |   | 0.5000  | 6.0  |   | 20.0        |               |   |                   |
| Acetophenone                 | 1.6364           | 1.6754           | 1.7247           | 1.6456<br>1.8498 | 1.6936 | Ave           |             | 1.7042 |           |   | 0.0100  | 4.6  |   | 20.0        |               |   |                   |
| 3 & 4 Methylphenol           | 1.2319           | 1.1989           | 1.2106           | 1.1494<br>1.2720 | 1.2184 | Ave           |             | 1.2135 |           |   |         | 3.3  |   | 20.0        |               |   |                   |
| 4-Methylphenol               | 1.2319           | 1.1989           | 1.2106           | 1.1494<br>1.2720 | 1.2184 | Ave           |             | 1.2135 |           |   | 0.6000  | 3.3  |   | 20.0        |               |   |                   |
| Hexachloroethane             | 0.5645<br>0.5953 | 0.6427<br>0.5828 | 0.5929<br>0.5777 | 0.5659<br>0.6110 | 0.5951 | Ave           |             | 0.5920 |           |   | 0.3000  | 4.1  |   | 20.0        |               |   |                   |
| n,n'-Dimethylaniline         | 1.5787<br>1.7165 | 1.5298<br>1.8600 | 1.7240<br>1.7930 | 1.7783<br>1.9757 | 1.7385 | Ave           |             | 1.7438 |           |   |         | 7.7  |   | 20.0        |               |   |                   |
| Nitrobenzene                 | 0.5441<br>0.5743 | 0.5362<br>0.5706 | 0.5434<br>0.5521 | 0.5573<br>0.5839 | 0.5573 | Ave           |             | 0.5577 |           |   | 0.2000  | 2.8  |   | 20.0        |               |   |                   |
| Isophorone                   | 0.6423           | 0.6583           | 0.6413<br>0.6648 | 0.6278<br>0.6921 | 0.6500 | Ave           |             | 0.6538 |           |   | 0.4000  | 3.2  |   | 20.0        |               |   |                   |
| 2-Nitrophenol                | 0.1963           | 0.1999           | 0.1968           | 0.1808<br>0.2178 | 0.1914 | Ave           |             | 0.1972 |           |   | 0.1000  | 6.2  |   | 20.0        |               |   |                   |
| 2,4-Dimethylphenol           | 0.3113           | 0.3174           | 0.3183           | 0.2934<br>0.3268 | 0.2840 | Ave           |             | 0.3085 |           |   | 0.2000  | 5.3  |   | 20.0        |               |   |                   |
| Bis(2-chloroethoxy)methane   | 0.4051           | 0.4105           | 0.4104           | 0.3938<br>0.4285 | 0.3996 | Ave           |             | 0.4080 |           |   | 0.3000  | 2.9  |   | 20.0        |               |   |                   |
| Benzoic acid                 | 0.1094           | 0.1420           | 0.1558           | 0.0414<br>0.1640 | 0.0574 | Qua           | -0.777      | 0.1498 | 0.0001752 |   |         |      |   |             | 1.0000        |   | 0.9900            |
| 2,4-Dichlorophenol           | 0.2926           | 0.2918           | 0.2714<br>0.2923 | 0.2781<br>0.3016 | 0.2914 | Ave           |             | 0.2884 |           |   | 0.2000  | 3.5  |   | 20.0        |               |   |                   |
| 1,2,4-Trichlorobenzene       | 0.3427<br>0.3468 | 0.3615<br>0.3363 | 0.3583<br>0.3365 | 0.3305<br>0.3509 | 0.3435 | Ave           |             | 0.3452 |           |   |         | 3.0  |   | 20.0        |               |   |                   |
| Naphthalene                  | 1.0539           | 1.0502           | 1.0432           | 1.0471<br>1.0833 | 1.0432 | Ave           |             | 1.0535 |           |   | 0.7000  | 1.4  |   | 20.0        |               |   |                   |
| 4-Chloroaniline              | 0.3821           | 0.3965           | 0.3910           | 0.3975<br>0.4087 | 0.3837 | Ave           |             | 0.3933 |           |   | 0.0100  | 2.5  |   | 20.0        |               |   |                   |
| Hexachlorobutadiene          | 0.2117<br>0.2067 | 0.2022<br>0.2019 | 0.2074<br>0.1973 | 0.2042           | 0.2041 | Ave           |             | 0.2044 |           |   | 0.0100  | 2.1  |   | 20.0        |               |   |                   |
| 4-Chloro-3-methylphenol      | 0.2798           | 0.2883           | 0.2936           | 0.2523<br>0.2995 | 0.2805 | Ave           |             | 0.2823 |           |   | 0.2000  | 5.9  |   | 20.0        |               |   |                   |
| 2-Methylnaphthalene          | 0.6816           | 0.6713           | 0.6852           | 0.6576<br>0.7025 | 0.6842 | Ave           |             | 0.6804 |           |   | 0.4000  | 2.2  |   | 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.: 460-109716-1 Analy Batch No.: 354905  
SDG No.: \_\_\_\_\_  
Instrument ID: CBNAMS11 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 03/09/2016 08:34 Calibration End Date: 03/09/2016 11:52 Calibration ID: 54797

| ANALYTE                        | RRF            |                  |                  |                  |        | CURVE<br>TYPE | COEFFICIENT |        |           | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|--------------------------------|----------------|------------------|------------------|------------------|--------|---------------|-------------|--------|-----------|---|---------|------|---|-------------|---------------|---|-------------------|
|                                | LVL 1<br>LVL 6 | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4<br>LVL 9   | LVL 5  |               | B           | M1     | M2        |   |         |      |   |             |               |   |                   |
| 1-Methylnaphthalene            | 0.5755         | 0.5838           | 0.5863           | 0.5757<br>0.5994 | 0.5806 | Ave           |             | 0.5835 |           |   |         | 1.5  |   | 20.0        |               |   |                   |
| Hexachlorocyclopentadiene      | 0.1866         | 0.3650           | 0.3200           | 0.2889<br>0.3983 | 0.1880 | QuaF          |             | 0.2438 | 0.0012588 |   | 0.0500  |      |   |             | 0.9910        |   | 0.9900            |
| 1,2,4,5-Tetrachlorobenzene     | 0.6510         | 0.6504           | 0.6364           | 0.6394<br>0.6776 | 0.6497 | Ave           |             | 0.6507 |           |   | 0.0100  | 2.2  |   | 20.0        |               |   |                   |
| 2-tertbutyl-4-methylphenol     | 0.4201         | 0.4449           | 0.4332           | 0.3885<br>0.4603 | 0.4106 | Ave           |             | 0.4263 |           |   |         | 6.0  |   | 20.0        |               |   |                   |
| 2,4,6-Trichlorophenol          | 0.3869         | 0.4074           | 0.3627<br>0.3950 | 0.3493<br>0.4303 | 0.3815 | Ave           |             | 0.3876 |           |   | 0.2000  | 7.0  |   | 20.0        |               |   |                   |
| 2,4,5-Trichlorophenol          | 0.4201         | 0.4316           | 0.4237           | 0.3302<br>0.4187 | 0.3957 | Ave           |             | 0.4033 |           |   | 0.2000  | 9.4  |   | 20.0        |               |   |                   |
| 1,1'-Biphenyl                  | 1.6170         | 1.6290           | 1.6177           | 1.5576<br>1.7069 | 1.6035 | Ave           |             | 1.6219 |           |   | 0.0100  | 3.0  |   | 20.0        |               |   |                   |
| 2-Chloronaphthalene            | 1.2309         | 1.2179           | 1.1840           | 1.1767<br>1.2698 | 1.2134 | Ave           |             | 1.2154 |           |   | 0.8000  | 2.8  |   | 20.0        |               |   |                   |
| Phenyl ether                   | 0.8531         | 0.8623           | 0.8181           | 0.8170<br>0.8982 | 0.8359 | Ave           |             | 0.8474 |           |   |         | 3.6  |   | 20.0        |               |   |                   |
| 2-Nitroaniline                 | 0.3941         | 0.3819           | 0.3748           | 0.3377<br>0.3786 | 0.3923 | Ave           |             | 0.3766 |           |   | 0.0100  | 5.4  |   | 20.0        |               |   |                   |
| 1,3-Dimethylnaphthalene        | 1.0268         | 1.0321           | 0.9288           | 0.9979<br>1.0080 | 1.0238 | Ave           |             | 1.0029 |           |   |         | 3.8  |   | 20.0        |               |   |                   |
| Dimethyl phthalate             | 1.2315         | 1.1850           | 1.1737           | 1.2031<br>1.1974 | 1.2634 | Ave           |             | 1.2090 |           |   | 0.0100  | 2.7  |   | 20.0        |               |   |                   |
| Coumarin                       | 0.1804         | 0.1744           | 0.1689           | 0.1762<br>0.1657 | 0.1883 | Ave           |             | 0.1757 |           |   |         | 4.6  |   | 20.0        |               |   |                   |
| 2,6-Dinitrotoluene             | 0.2886         | 0.2445<br>0.2867 | 0.2781<br>0.2765 | 0.2809<br>0.2840 | 0.2967 | Ave           |             | 0.2795 |           |   | 0.2000  | 5.6  |   | 20.0        |               |   |                   |
| Acenaphthylene                 | 1.7602         | 1.7862           | 1.7504           | 1.7445<br>1.8198 | 1.7800 | Ave           |             | 1.7735 |           |   | 0.9000  | 1.6  |   | 20.0        |               |   |                   |
| 3-Nitroaniline                 | 0.2892         | 0.2874           | 0.2796           | 0.2755<br>0.2829 | 0.2971 | Ave           |             | 0.2853 |           |   | 0.0100  | 2.7  |   | 20.0        |               |   |                   |
| 3,5-di-tert-butyl-4-hydroxytol | 1.0248         | 1.1891           | 1.1452           | 1.0616<br>1.2738 | 0.9900 | Ave           |             | 1.1141 |           |   |         | 9.7  |   | 20.0        |               |   |                   |
| Acenaphthene                   | 1.1422         | 1.1122           | 1.1030           | 1.1208<br>1.1493 | 1.1576 | Ave           |             | 1.1309 |           |   | 0.9000  | 1.9  |   | 20.0        |               |   |                   |
| 2,4-Dinitrophenol              | 0.1610         | 0.1722           | 0.0684<br>0.1754 | 0.1092<br>0.1833 | 0.1477 | Qua           | -0.454      | 0.1683 | 0.0000694 |   | 0.0100  |      |   |             | 1.0000        |   | 0.9900            |
| 4-Nitrophenol                  | 0.1924         | 0.2103           | 0.2035           | 0.1558<br>0.2152 | 0.1935 | Ave           |             | 0.1951 |           |   | 0.0100  | 10.9 |   | 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.: 460-109716-1 Analy Batch No.: 354905  
SDG No.: \_\_\_\_\_  
Instrument ID: CBNAMS11 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 03/09/2016 08:34 Calibration End Date: 03/09/2016 11:52 Calibration ID: 54797

| ANALYTE                     | RRF              |                  |                  |                  |        | CURVE TYPE | COEFFICIENT |        |           | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|-----------------------------|------------------|------------------|------------------|------------------|--------|------------|-------------|--------|-----------|---|---------|------|---|----------|------------|---|----------------|
|                             | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4<br>LVL 9   | LVL 5  |            | B           | M1     | M2        |   |         |      |   |          |            |   |                |
| 2,4-Dinitrotoluene          | 0.3589           | 0.3268<br>0.3357 | 0.3514<br>0.3306 | 0.3593<br>0.3349 | 0.3880 | Ave        |             | 0.3482 |           |   | 0.2000  | 5.9  |   | 20.0     |            |   |                |
| Dibenzofuran                | 1.6371           | 1.5784           | 1.5407           | 1.6370<br>1.5887 | 1.6401 | Ave        |             | 1.6037 |           |   | 0.8000  | 2.6  |   | 20.0     |            |   |                |
| 2,3,4,6-Tetrachlorophenol   | 0.2954           | 0.2985           | 0.2881           | 0.2693<br>0.3065 | 0.3005 | Ave        |             | 0.2930 |           |   | 0.0100  | 4.5  |   | 20.0     |            |   |                |
| Diethyl phthalate           | 1.1619           | 1.0896           | 1.0549           | 1.1508<br>1.0807 | 1.2158 | Ave        |             | 1.1256 |           |   | 0.0100  | 5.4  |   | 20.0     |            |   |                |
| 4-Chlorophenyl phenyl ether | 0.6232           | 0.6111           | 0.5980           | 0.6168<br>0.6089 | 0.6290 | Ave        |             | 0.6145 |           |   | 0.4000  | 1.8  |   | 20.0     |            |   |                |
| Fluorene                    | 1.2907           | 1.2357           | 1.2080           | 1.2787<br>1.2293 | 1.3167 | Ave        |             | 1.2599 |           |   | 0.9000  | 3.3  |   | 20.0     |            |   |                |
| 4-Nitroaniline              | 0.2447           | 0.2327           | 0.2301           | 0.2303<br>0.2143 | 0.2596 | Ave        |             | 0.2353 |           |   | 0.0100  | 6.5  |   | 20.0     |            |   |                |
| 4,6-Dinitro-2-methylphenol  | 0.1373           | 0.1433           | 0.0772<br>0.1443 | 0.1027<br>0.1556 | 0.1315 | Lin2       | -0.299      | 0.1464 |           |   | 0.0100  |      |   |          | 0.9960     |   | 0.9900         |
| N-Nitrosodiphenylamine      | 0.6079           | 0.6287           | 0.5902<br>0.6242 | 0.5695<br>0.6576 | 0.6061 | Ave        |             | 0.6120 |           |   | 0.0100  | 4.6  |   | 20.0     |            |   |                |
| 1,2-Diphenylhydrazine       | 0.9026           | 0.9423           | 0.9318           | 0.8067<br>0.9995 | 0.8714 | Ave        |             | 0.9090 |           |   |         | 7.3  |   | 20.0     |            |   |                |
| 4-Bromophenyl phenyl ether  | 0.2405           | 0.2537           | 0.2496           | 0.2382<br>0.2732 | 0.2399 | Ave        |             | 0.2492 |           |   | 0.1000  | 5.3  |   | 20.0     |            |   |                |
| Hexachlorobenzene           | 0.2575<br>0.2489 | 0.2459<br>0.2573 | 0.2442<br>0.2587 | 0.2255<br>0.2740 | 0.2429 | Ave        |             | 0.2505 |           |   | 0.1000  | 5.4  |   | 20.0     |            |   |                |
| Pentachlorophenol           | 0.1127           | 0.1339           | 0.0593<br>0.1358 | 0.0769<br>0.1475 | 0.1016 | Qua        | -0.403      | 0.1230 | 0.0001074 |   | 0.0500  |      |   |          | 1.0000     |   | 0.9900         |
| Pentachloronitrobenzene     | 0.1045           | 0.1014           | 0.0895           | 0.0892<br>0.0963 | 0.1020 | Ave        |             | 0.0971 |           |   | 0.0100  | 6.8  |   | 20.0     |            |   |                |
| n-Octadecane                | 0.7124           | 0.7911           | 0.7660           | 0.6215<br>0.8167 | 0.6952 | Ave        |             | 0.7338 |           |   |         | 9.8  |   | 20.0     |            |   |                |
| Phenanthrene                | 1.1797           | 1.1469           | 1.1243           | 1.1421<br>1.1863 | 1.1813 | Ave        |             | 1.1601 |           |   | 0.7000  | 2.2  |   | 20.0     |            |   |                |
| Anthracene                  | 1.1376           | 1.1481           | 1.1317           | 1.1018<br>1.1881 | 1.1508 | Ave        |             | 1.1430 |           |   | 0.7000  | 2.5  |   | 20.0     |            |   |                |
| Carbazole                   | 0.8921           | 0.8698           | 0.8561           | 0.8928<br>0.9049 | 0.9072 | Ave        |             | 0.8872 |           |   | 0.0100  | 2.3  |   | 20.0     |            |   |                |
| Di-n-butyl phthalate        | 1.1218           | 1.0858           | 1.0733           | 1.0373<br>1.1444 | 1.1126 | Ave        |             | 1.0959 |           |   | 0.0100  | 3.5  |   | 20.0     |            |   |                |
| Fluoranthene                | 0.9689           | 0.9272           | 0.9131           | 0.9904<br>0.9476 | 0.9975 | Ave        |             | 0.9574 |           |   | 0.6000  | 3.6  |   | 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.: 460-109716-1 Analy Batch No.: 354905  
SDG No.: \_\_\_\_\_  
Instrument ID: CBNAMS11 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 03/09/2016 08:34 Calibration End Date: 03/09/2016 11:52 Calibration ID: 54797

| ANALYTE                     | RRF              |                  |                  |                  |        | CURVE<br>TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|-----------------------------|------------------|------------------|------------------|------------------|--------|---------------|-------------|--------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                             | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4<br>LVL 9   | LVL 5  |               | B           | M1     | M2 |   |         |      |   |             |               |   |                   |
| Benzidine                   | 0.2571           | 0.3342           | 0.3440           | 0.3825<br>0.3627 | 0.2434 | Ave           |             | 0.3206 |    |   |         | 17.8 |   | 20.0        |               |   |                   |
| Pyrene                      | 1.7434           | 1.7902           | 1.7548           | 1.7868<br>1.8387 | 1.8644 | Ave           |             | 1.7964 |    |   | 0.6000  | 2.6  |   | 20.0        |               |   |                   |
| Bisphenol-A                 | 0.0489           | 0.5149           | 0.3632           | +++++<br>0.5170  | 0.1060 | Ave           |             | 0.3100 |    |   |         | 71.7 | * | 20.0        |               |   |                   |
| Butyl benzyl phthalate      | 0.6468           | 0.6456           | 0.6396           | 0.6036<br>0.6734 | 0.6569 | Ave           |             | 0.6443 |    |   | 0.0100  | 3.6  |   | 20.0        |               |   |                   |
| 2,3,7,8-TCDD                |                  | 0.1645           |                  |                  |        | Ave           |             | 0.1645 |    |   |         |      |   | 20.0        |               |   |                   |
| Carbamazepine               | 0.3808           | 0.4457           | 0.4495           | 0.3150<br>0.5298 | 0.3771 | Ave           |             | 0.4163 |    |   |         | 18.0 |   | 20.0        |               |   |                   |
| 3,3'-Dichlorobenzidine      | 0.3641           | 0.3993           | 0.3057<br>0.4284 | 0.3446<br>0.4443 | 0.3468 | Ave           |             | 0.3762 |    |   | 0.0100  | 13.2 |   | 20.0        |               |   |                   |
| Benzo[a]anthracene          | 1.3181<br>1.1478 | 1.2578<br>1.1581 | 1.1538<br>1.1678 | 1.1426<br>1.2322 | 1.1641 | Ave           |             | 1.1936 |    |   | 0.8000  | 5.1  |   | 20.0        |               |   |                   |
| Bis(2-ethylhexyl) phthalate | 0.8655           | 0.8619           | 0.8825           | 0.7855<br>0.9328 | 0.8536 | Ave           |             | 0.8636 |    |   | 0.0100  | 5.5  |   | 20.0        |               |   |                   |
| Chrysene                    | 1.0586           | 1.0614           | 1.0625           | 1.0604<br>1.1196 | 1.0920 | Ave           |             | 1.0757 |    |   | 0.7000  | 2.3  |   | 20.0        |               |   |                   |
| Di-n-octyl phthalate        | 1.7484           | 1.6524           | 1.7105           | 1.5553<br>1.7577 | 1.7199 | Ave           |             | 1.6907 |    |   | 0.0100  | 4.5  |   | 20.0        |               |   |                   |
| Benzo[b]fluoranthene        | 1.3943<br>1.3043 | 1.2593<br>1.2598 | 1.2645<br>1.2630 | 1.2171<br>1.3129 | 1.3009 | Ave           |             | 1.2862 |    |   | 0.7000  | 3.9  |   | 20.0        |               |   |                   |
| Benzo[k]fluoranthene        | 1.2130<br>1.3663 | 1.1611<br>1.2599 | 1.2177<br>1.3828 | 1.2738<br>1.3974 | 1.3108 | Ave           |             | 1.2870 |    |   | 0.7000  | 6.5  |   | 20.0        |               |   |                   |
| Benzo[a]pyrene              | 1.0639<br>1.1895 | 1.0460<br>1.1573 | 1.0444<br>1.2184 | 1.0777<br>1.2695 | 1.1131 | Ave           |             | 1.1311 |    |   | 0.7000  | 7.2  |   | 20.0        |               |   |                   |
| Indeno[1,2,3-cd]pyrene      | 0.8234<br>0.9484 | 0.9145<br>1.0101 | 0.7440<br>1.0777 | 0.7488<br>1.2367 | 0.8518 | Ave           |             | 0.9284 |    |   | 0.5000  | 17.4 |   | 20.0        |               |   |                   |
| Dibenz(a,h)anthracene       | 0.7333<br>0.9530 | 0.7158<br>0.9947 | 0.8608<br>1.0784 | 0.7586<br>1.1821 | 0.8699 | Ave           |             | 0.9052 |    |   | 0.4000  | 17.8 |   | 20.0        |               |   |                   |
| Benzo[g,h,i]perylene        | 0.9888           | 0.9873           | 1.1022           | 0.7929<br>1.2309 | 0.8669 | Ave           |             | 0.9948 |    |   | 0.5000  | 15.9 |   | 20.0        |               |   |                   |
| 2-Fluorophenol (Surr)       | 1.2472<br>1.3241 | 1.3982<br>1.5158 | 1.3483<br>1.4056 | 1.7389           | 1.3870 | Ave           |             | 1.4206 |    |   |         | 10.5 |   | 20.0        |               |   |                   |
| Phenol-d5 (Surr)            | 1.5510           | 1.4328<br>1.7824 | 1.8069<br>1.6736 | 1.6589<br>2.0307 | 1.6791 | Ave           |             | 1.7019 |    |   |         | 10.5 |   | 20.0        |               |   |                   |
| Nitrobenzene-d5 (Surr)      | 0.3625<br>0.4106 | 0.3626<br>0.4569 | 0.4486<br>0.4266 | 0.4280<br>0.5000 | 0.4298 | Ave           |             | 0.4251 |    |   |         | 10.3 |   | 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.: 460-109716-1 Analy Batch No.: 354905

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS11 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/09/2016 08:34 Calibration End Date: 03/09/2016 11:52 Calibration ID: 54797

| ANALYTE                     | RRF              |                  |                  |                  |        | CURVE<br>TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>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            | 1.3677<br>1.4285 | 1.3947<br>1.5647 | 1.5825<br>1.4772 | 1.4865<br>1.7696 | 1.4566 | Ave           |             | 1.5031 |    |   |         | 8.1  |   | 20.0        |               |   |                   |
| 2,4,6-Tribromophenol (Surr) | 0.1533           | 0.1199<br>0.1765 | 0.1725<br>0.1624 | 0.1748<br>0.1894 | 0.1732 | Ave           |             | 0.1653 |    |   |         | 12.8 |   | 20.0        |               |   |                   |
| Terphenyl-d14 (Surr)        | 1.1153<br>1.1818 | 1.1151<br>1.3174 | 1.4451<br>1.2503 | 1.2596<br>1.4796 | 1.2819 | Ave           |             | 1.2718 |    |   |         | 10.1 |   | 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.: 460-109716-1 Analy Batch No.: 354905

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS11 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/09/2016 08:34 Calibration End Date: 03/09/2016 11:52 Calibration ID: 54797

Calibration Files:

| LEVEL:  | LAB SAMPLE ID:      | LAB FILE ID: |
|---------|---------------------|--------------|
| Level 1 | STD05 460-354905/10 | z41468.D     |
| Level 2 | STD1 460-354905/9   | z41467.D     |
| Level 3 | STD2 460-354905/8   | z41466.D     |
| Level 4 | STD5 460-354905/7   | z41465.D     |
| Level 5 | STD10 460-354905/6  | z41464.D     |
| Level 6 | STD20 460-354905/5  | z41463.D     |
| Level 7 | ICIS 460-354905/2   | z41460.D     |
| Level 8 | STD80 460-354905/4  | z41462.D     |
| Level 9 | STD120 460-354905/3 | z41461.D     |

| ANALYTE                      | IS REF | CURVE TYPE | RESPONSE       |                |                 |                  |        | CONCENTRATION (UG/ML) |                |                |                |       |
|------------------------------|--------|------------|----------------|----------------|-----------------|------------------|--------|-----------------------|----------------|----------------|----------------|-------|
|                              |        |            | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8  | LVL 4<br>LVL 9   | LVL 5  | LVL 6                 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| 1,4-Dioxane                  | DCB    | Ave        | 72952          | 212998         | 253731          | 18234<br>470876  | 45411  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| N-Nitrosodimethylamine       | DCB    | Ave        | 99345          | 293054         | 351694          | 23716<br>688520  | 63333  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Pyridine                     | DCB    | Ave        | 168365         | 516480         | 617654          | 44000<br>1202187 | 103999 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Phenol                       | DCB    | Ave        | 212313         | 601247         | 738898          | 50420<br>1433490 | 131207 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Aniline                      | DCB    | Ave        | 227251         | 674917         | 828344          | 54539<br>1587946 | 143598 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Bis(2-chloroethyl)ether      | DCB    | Ave        | 4939<br>158273 | 9362<br>458492 | 16898<br>569678 | 37280<br>1179932 | 98111  | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| 2-Chlorophenol               | DCB    | Ave        | 160940         | 447115         | 554394          | 38413<br>1020780 | 99032  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| n-Decane                     | DCB    | Ave        | 214871         | 577098         | 665671          | 52331<br>1115569 | 134053 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 1,3-Dichlorobenzene          | DCB    | Ave        | 184900         | 511789         | 630244          | 44567<br>1172495 | 115810 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 1,4-Dichlorobenzene          | DCB    | Ave        | 188851         | 514247         | 637313          | 45979<br>1190501 | 117304 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Benzyl alcohol               | DCB    | Qua        | 61284          | 254222         | 302327          | 13640<br>587756  | 41914  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 1,2-Dichlorobenzene          | DCB    | Ave        | 173467         | 473630         | 592539          | 42306<br>1102357 | 107789 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2-Methylphenol               | DCB    | Ave        | 142306         | 399372         | 506050          | 32156<br>943983  | 85325  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2,2'-oxybis[1-chloropropane] | DCB    | Ave        | 228225         | 626924         | 743739          | 57269<br>1344844 | 147762 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |

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

Lab Name: TestAmerica Edison Job No.: 460-109716-1 Analy Batch No.: 354905

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS11 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/09/2016 08:34 Calibration End Date: 03/09/2016 11:52 Calibration ID: 54797

| ANALYTE                    | IS REF | CURVE TYPE | RESPONSE       |                 |                 |                   |        | CONCENTRATION (UG/ML) |                |                |                |       |
|----------------------------|--------|------------|----------------|-----------------|-----------------|-------------------|--------|-----------------------|----------------|----------------|----------------|-------|
|                            |        |            | LVL 1<br>LVL 6 | LVL 2<br>LVL 7  | LVL 3<br>LVL 8  | LVL 4<br>LVL 9    | LVL 5  | LVL 1<br>LVL 6        | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| N-Nitrosodi-n-propylamine  | DCB    | Ave        | 3193<br>100998 | 6081<br>298628  | 11751<br>343751 | 24099<br>721378   | 64612  | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Acetophenone               | DCB    | Ave        | 194056         | 550509          | 712335          | 48213<br>1351205  | 123684 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 3 & 4 Methylphenol         | DCB    | Ave        | 146084         | 393932          | 500032          | 33674<br>929115   | 88979  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 4-Methylphenol             | DCB    | Ave        | 146084         | 393932          | 500032          | 33674<br>929115   | 88979  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Hexachloroethane           | DCB    | Ave        | 1998<br>70598  | 4349<br>191508  | 7356<br>238595  | 16579<br>446318   | 43458  | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| n,n'-Dimethylaniline       | DCB    | Ave        | 5588<br>203559 | 10351<br>611177 | 21388<br>740556 | 52100<br>1443138  | 126965 | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Nitrobenzene               | NPT    | Ave        | 6448<br>220781 | 11944<br>623464 | 23260<br>782738 | 53481<br>1479655  | 135062 | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Isophorone                 | NPT    | Ave        | 246913         | 719343          | 942577          | 60247<br>1753741  | 157528 | 20.0                  | 50.0           | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| 2-Nitrophenol              | NPT    | Ave        | 75449          | 218448          | 278973          | 17349<br>552034   | 46385  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2,4-Dimethylphenol         | NPT    | Ave        | 119666         | 346829          | 451277          | 28155<br>828147   | 68844  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Bis(2-chloroethoxy)methane | NPT    | Ave        | 155725         | 448593          | 581884          | 37793<br>1085916  | 96854  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Benzoic acid               | NPT    | Qua        | 42054          | 155178          | 220878          | 3970<br>415477    | 13921  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2,4-Dichlorophenol         | NPT    | Ave        | 112487         | 318794          | 11615<br>414422 | 26683<br>764315   | 70626  | 20.0                  | 50.0           | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| 1,2,4-Trichlorobenzene     | NPT    | Ave        | 4062<br>133342 | 8051<br>367461  | 15335<br>477148 | 31714<br>889133   | 83254  | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Naphthalene                | NPT    | Ave        | 405171         | 1147537         | 1479179         | 100476<br>2745138 | 252839 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 4-Chloroaniline            | NPT    | Ave        | 146885         | 433283          | 554421          | 38146<br>1035669  | 93002  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Hexachlorobutadiene        | NPT    | Ave        | 79466          | 220622          | 4716<br>279790  | 8654<br>517395    | 49477  | 20.0                  | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| 4-Chloro-3-methylphenol    | NPT    | Ave        | 107581         | 315056          | 416246          | 24211<br>758846   | 67981  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2-Methylnaphthalene        | NPT    | Ave        | 262020         | 733516          | 971544          | 63101<br>1780157  | 165836 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 1-Methylnaphthalene        | NPT    | Ave        | 221247         | 637875          | 831267          | 55240<br>1519030  | 140728 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Hexachlorocyclopentadiene  | ANT    | QuaF       | 32996          | 182841          | 216986          | 13199<br>455611   | 21585  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |

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

Lab Name: TestAmerica Edison Job No.: 460-109716-1 Analy Batch No.: 354905

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS11 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/09/2016 08:34 Calibration End Date: 03/09/2016 11:52 Calibration ID: 54797

| ANALYTE                        | IS REF | CURVE TYPE | RESPONSE       |                |                |                  |        | CONCENTRATION (UG/ML) |                |                |                |       |
|--------------------------------|--------|------------|----------------|----------------|----------------|------------------|--------|-----------------------|----------------|----------------|----------------|-------|
|                                |        |            | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9   | LVL 5  | LVL 6                 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| 1,2,4,5-Tetrachlorobenzene     | ANT    | Ave        | 115119         | 325791         | 431568         | 29210<br>775135  | 74611  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2-tertbutyl-4-methylphenol     | NPT    | Ave        | 161511         | 486166         | 614279         | 37284<br>1166320 | 99510  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2,4,6-Trichlorophenol          | ANT    | Ave        | 68417          | 204067         | 7626<br>267877 | 15957<br>492224  | 43815  | 20.0                  | 50.0           | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| 2,4,5-Trichlorophenol          | ANT    | Ave        | 74287          | 216210         | 287367         | 15083<br>479011  | 45437  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 1,1'-Biphenyl                  | ANT    | Ave        | 285962         | 815953         | 1097083        | 71160<br>1952660 | 184137 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2-Chloronaphthalene            | ANT    | Ave        | 217673         | 610048         | 802944         | 53755<br>1452607 | 139337 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Phenyl ether                   | ANT    | Ave        | 150858         | 431912         | 554814         | 37323<br>1027475 | 95989  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2-Nitroaniline                 | ANT    | Ave        | 69690          | 191308         | 254155         | 15428<br>433126  | 45046  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 1,3-Dimethylnaphthalene        | ANT    | Ave        | 181591         | 516976         | 629923         | 45590<br>1153099 | 117573 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Dimethyl phthalate             | ANT    | Ave        | 217781         | 593583         | 796010         | 54961<br>1369756 | 145082 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Coumarin                       | NPT    | Ave        | 69356          | 190591         | 239542         | 16909<br>419966  | 45637  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2,6-Dinitrotoluene             | ANT    | Ave        | 51041          | 2491<br>143602 | 5848<br>187495 | 12831<br>324858  | 34074  | 20.0                  | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Acenaphthylene                 | ANT    | Ave        | 311278         | 894728         | 1187078        | 79697<br>2081823 | 204412 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 3-Nitroaniline                 | ANT    | Ave        | 51138          | 143941         | 189621         | 12584<br>323650  | 34113  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 3,5-di-tert-butyl-4-hydroxytol | ANT    | Ave        | 181239         | 595638         | 776659         | 48497<br>1457228 | 113688 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Acenaphthene                   | ANT    | Ave        | 201992         | 557117         | 748057         | 51201<br>1314826 | 132939 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2,4-Dinitrophenol              | ANT    | Qua        | 56945          | 172464         | 2875<br>237948 | 9981<br>419285   | 33929  | 40.0                  | 100            | 4.00<br>160    | 10.0<br>240    | 20.0  |
| 4-Nitrophenol                  | ANT    | Ave        | 68043          | 210643         | 275996         | 14235<br>492356  | 44443  | 40.0                  | 100            | 160            | 10.0<br>240    | 20.0  |
| 2,4-Dinitrotoluene             | ANT    | Ave        | 63477          | 3329<br>168179 | 7389<br>224210 | 16416<br>383141  | 44562  | 20.0                  | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Dibenzofuran                   | ANT    | Ave        | 289515         | 790616         | 1044902        | 74785<br>1817478 | 188347 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2,3,4,6-Tetrachlorophenol      | ANT    | Ave        | 52248          | 149531         | 195353         | 12302<br>350596  | 34503  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |

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

Lab Name: TestAmerica Edison Job No.: 460-109716-1 Analy Batch No.: 354905

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS11 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/09/2016 08:34 Calibration End Date: 03/09/2016 11:52 Calibration ID: 54797

| ANALYTE                     | IS REF | CURVE TYPE | RESPONSE       |                |                  |                         |        | CONCENTRATION (UG/ML) |                |                |                |       |
|-----------------------------|--------|------------|----------------|----------------|------------------|-------------------------|--------|-----------------------|----------------|----------------|----------------|-------|
|                             |        |            | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8   | LVL 4<br>LVL 9          | LVL 5  | LVL 6                 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| Diethyl phthalate           | ANT    | Ave        | 205475         | 545811         | 715430           | 52575<br>1236298        | 139613 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 4-Chlorophenyl phenyl ether | ANT    | Ave        | 110218         | 306117         | 405550           | 28180<br>696547         | 72237  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Fluorene                    | ANT    | Ave        | 228262         | 618972         | 819218           | 58418<br>1406248        | 151204 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 4-Nitroaniline              | ANT    | Ave        | 43278          | 116578         | 156080           | 10523<br>245111         | 29815  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 4,6-Dinitro-2-methylphenol  | PHN    | Lin2       | 69632          | 190536         | 255870           | 4905<br>14444<br>443297 | 45380  | 40.0                  | 100            | 4.00<br>160    | 10.0<br>240    | 20.0  |
| N-Nitrosodiphenylamine      | PHN    | Ave        | 308351         | 836059         | 37519<br>1107166 | 80084<br>1872872        | 209210 | 40.0                  | 100            | 4.00<br>160    | 10.0<br>240    | 20.0  |
| 1,2-Diphenylhydrazine       | PHN    | Ave        | 228930         | 626581         | 826349           | 56720<br>1423399        | 150388 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 4-Bromophenyl phenyl ether  | PHN    | Ave        | 61009          | 168692         | 221405           | 16749<br>389083         | 41398  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Hexachlorobenzene           | PHN    | Ave        | 2269<br>63122  | 3726<br>171085 | 7761<br>229396   | 15853<br>390126         | 41929  | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Pentachlorophenol           | PHN    | Qua        | 57179          | 178037         | 3771<br>240826   | 10818<br>419974         | 35064  | 40.0                  | 100            | 4.00<br>160    | 10.0<br>240    | 20.0  |
| Pentachloronitrobenzene     | PHN    | Ave        | 26493          | 67429          | 79378            | 6269<br>137186          | 17608  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| n-Octadecane                | PHN    | Ave        | 180699         | 526019         | 679376           | 43700<br>1162990        | 119975 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Phenanthrene                | PHN    | Ave        | 299229         | 762653         | 997117           | 80305<br>1689347        | 203876 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Anthracene                  | PHN    | Ave        | 288538         | 763450         | 1003712          | 77471<br>1691964        | 198615 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Carbazole                   | PHN    | Ave        | 226281         | 578400         | 759280           | 62776<br>1288578        | 156563 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Di-n-butyl phthalate        | PHN    | Ave        | 284526         | 722014         | 951854           | 72933<br>1629658        | 192020 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Fluoranthene                | PHN    | Ave        | 245750         | 616540         | 809817           | 69637<br>1349433        | 172146 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Benzidine                   | PHN    | Ave        | 65218          | 222217         | 305072           | 26892<br>516510         | 42001  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Pyrene                      | CRY    | Ave        | 249105         | 607153         | 797738           | 70347<br>1345434        | 171112 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Bisphenol-A                 | CRY    | Ave        | 6981           | 174649         | 165131           | +++++<br>378291         | 9728   | 20.0                  | 50.0           | 80.0           | +++++<br>120   | 10.0  |
| Butyl benzyl phthalate      | CRY    | Ave        | 92413          | 218958         | 290769           | 23763<br>492747         | 60291  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |

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

Lab Name: TestAmerica Edison Job No.: 460-109716-1 Analy Batch No.: 354905

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS11 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/09/2016 08:34 Calibration End Date: 03/09/2016 11:52 Calibration ID: 54797

| ANALYTE                     | IS REF | CURVE TYPE | RESPONSE       |                 |                  |                  |        | CONCENTRATION (UG/ML) |                |                |                |       |
|-----------------------------|--------|------------|----------------|-----------------|------------------|------------------|--------|-----------------------|----------------|----------------|----------------|-------|
|                             |        |            | LVL 1<br>LVL 6 | LVL 2<br>LVL 7  | LVL 3<br>LVL 8   | LVL 4<br>LVL 9   | LVL 5  | LVL 6                 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| 2,3,7,8-TCDD                | CRY    | Ave        |                | 558             |                  |                  |        |                       | 0.500          |                |                |       |
| Carbamazepine               | CRY    | Ave        | 54409          | 151150          | 204333           | 387703           | 34607  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 3,3'-Dichlorobenzidine      | CRY    | Ave        | 52021          | 135441          | 5196<br>194769   | 13566<br>325098  | 31832  | 20.0                  | 50.0           | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Benzo[a]anthracene          | CRY    | Ave        | 6550<br>164011 | 11535<br>392766 | 19610<br>530878  | 44985<br>901625  | 106846 | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Bis(2-ethylhexyl) phthalate | CRY    | Ave        | 123665         | 292315          | 401157           | 30923<br>682519  | 78341  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Chrysene                    | CRY    | Ave        | 151264         | 359978          | 482988           | 41746<br>819230  | 100224 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Di-n-octyl phthalate        | PRY    | Ave        | 163950         | 412235          | 565076           | 38595<br>996527  | 102797 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Benzo[b]fluoranthene        | PRY    | Ave        | 4284<br>122308 | 7345<br>314293  | 12718<br>417228  | 30203<br>744341  | 77757  | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Benzo[k]fluoranthene        | PRY    | Ave        | 3727<br>128126 | 6772<br>314323  | 12247<br>456829  | 31610<br>792260  | 78349  | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Benzo[a]pyrene              | PRY    | Ave        | 3269<br>111543 | 6101<br>288729  | 10504<br>402510  | 26742<br>719753  | 66531  | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Indeno[1,2,3-cd]pyrene      | PRY    | Ave        | 2530<br>88935  | 5334<br>252004  | 7483<br>356009   | 18581<br>701123  | 50911  | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Dibenz(a,h)anthracene       | PRY    | Ave        | 2253<br>89369  | 4175<br>248165  | 8657<br>356243   | 18824<br>670166  | 51992  | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Benzo[g,h,i]perylene        | PRY    | Ave        | 92724          | 246322          | 364104           | 19675<br>697844  | 51812  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2-Fluorophenol (Surr)       | DCB    | Ave        | 157021         | 8439<br>498068  | 17346<br>580547  | 39501<br>1270194 | 101294 | 20.0                  | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Phenol-d5 (Surr)            | DCB    | Ave        | 183936         | 9695<br>585673  | 22417<br>691252  | 48602<br>1483348 | 122631 | 20.0                  | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Nitrobenzene-d5 (Surr)      | NPT    | Ave        | 4296<br>157850 | 8077<br>499278  | 19202<br>604890  | 41071<br>1267150 | 104161 | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| 2-Fluorobiphenyl            | ANT    | Ave        | 7753<br>252626 | 14209<br>783782 | 33274<br>1001836 | 67908<br>2024428 | 167268 | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| 2,4,6-Tribromophenol (Surr) | ANT    | Ave        | 27102          | 1222<br>88429   | 3628<br>110166   | 7987<br>216672   | 19891  | 20.0                  | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Terphenyl-d14 (Surr)        | CRY    | Ave        | 5542<br>168862 | 10227<br>446805 | 24561<br>568385  | 49591<br>1082688 | 117654 | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |

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

Lab Name: TestAmerica Edison Job No.: 460-109716-1 Analy Batch No.: 354905  
SDG No.: \_\_\_\_\_  
Instrument ID: CBNAMS11 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 03/09/2016 08:34 Calibration End Date: 03/09/2016 11:52 Calibration ID: 54797

Curve Type Legend:

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



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41460.D  
 Lims ID: icis  
 Client ID:  
 Sample Type: ICIS Calib Level: 7  
 Inject. Date: 09-Mar-2016 08:34:30 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038213-002  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Sublist: chrom-8270\_11R\_9\*sub18  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 16-Mar-2016 08:55:44 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK034

First Level Reviewer: szczech

Date: 16-Mar-2016 08:55:44

| Compound                      | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-------------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| 1 1,4-Dioxane                 | 88  | 1.852        | 1.852            | 0.000            | 96 | 212998   | 50.0             | 51.6               |       |
| 2 N-Nitrosodimethylamine      | 74  | 2.099        | 2.099            | 0.000            | 87 | 293054   | 50.0             | 51.4               |       |
| 3 Pyridine                    | 79  | 2.128        | 2.128            | 0.000            | 86 | 516480   | 50.0             | 52.1               |       |
| \$ 4 2-Fluorophenol           | 112 | 3.269        | 3.269            | 0.000            | 92 | 498068   | 50.0             | 53.3               |       |
| \$ 6 Phenol-d5                | 99  | 4.199        | 4.199            | 0.000            | 95 | 585673   | 50.0             | 52.4               |       |
| 7 Phenol                      | 94  | 4.210        | 4.210            | 0.000            | 86 | 601247   | 50.0             | 50.4               |       |
| 8 Aniline                     | 93  | 4.216        | 4.216            | 0.000            | 88 | 674917   | 50.0             | 51.4               |       |
| 9 Bis(2-chloroethyl)ether     | 93  | 4.269        | 4.269            | 0.000            | 94 | 458492   | 50.0             | 50.3               |       |
| 10 Benzonitrile               | 103 | 4.304        | 4.304            | 0.000            | 0  | 832505   | NC               | NC                 |       |
| 11 2-Chlorophenol             | 128 | 4.340        | 4.340            | 0.000            | 93 | 447115   | 50.0             | 50.2               |       |
| 12 n-Decane                   | 43  | 4.357        | 4.357            | 0.000            | 88 | 577098   | 50.0             | 51.0               |       |
| 13 1,3-Dichlorobenzene        | 146 | 4.475        | 4.475            | 0.000            | 94 | 511789   | 50.0             | 49.9               |       |
| * 14 1,4-Dichlorobenzene-d4   | 152 | 4.528        | 4.528            | 0.000            | 98 | 262870   | 40.0             | 40.0               |       |
| 15 1,4-Dichlorobenzene        | 146 | 4.546        | 4.546            | 0.000            | 93 | 514247   | 50.0             | 49.4               |       |
| 16 Benzyl alcohol             | 108 | 4.687        | 4.687            | 0.000            | 92 | 254222   | 50.0             | 53.6               |       |
| 17 1,2-Dichlorobenzene        | 146 | 4.704        | 4.704            | 0.000            | 94 | 473630   | 50.0             | 49.3               |       |
| 19 2,2'-oxybis[1-chloropropan | 45  | 4.804        | 4.804            | 0.000            | 87 | 626924   | 50.0             | 50.0               |       |
| 18 2-Methylphenol             | 108 | 4.804        | 4.804            | 0.000            | 80 | 399372   | 50.0             | 50.7               |       |
| 20 N-Methylaniline            | 106 | 4.934        | 4.934            | 0.000            | 0  | 640680   | NC               | NC                 |       |
| 22 Acetophenone               | 105 | 4.946        | 4.946            | 0.000            | 98 | 550509   | 50.0             | 49.2               |       |
| 21 N-Nitrosodi-n-propylamine  | 70  | 4.951        | 4.951            | 0.000            | 91 | 298628   | 50.0             | 50.9               |       |
| 23 3 & 4 Methylphenol         | 108 | 4.969        | 4.969            | 0.000            | 96 | 393932   | 50.0             | 49.4               |       |
| 24 4-Methylphenol             | 108 | 4.969        | 4.969            | 0.000            | 93 | 393932   | 50.0             | 49.4               |       |
| 25 Hexachloroethane           | 117 | 5.040        | 5.040            | 0.000            | 95 | 191508   | 50.0             | 49.2               |       |
| \$ 26 Nitrobenzene-d5         | 82  | 5.098        | 5.098            | 0.000            | 90 | 499278   | 50.0             | 53.7               |       |
| 28 n,n'-Dimethylaniline       | 120 | 5.116        | 5.116            | 0.000            | 93 | 611177   | 50.0             | 53.3               |       |
| 27 Nitrobenzene               | 77  | 5.122        | 5.122            | 0.000            | 91 | 623464   | 50.0             | 51.2               |       |
| 31 Isophorone                 | 82  | 5.363        | 5.363            | 0.000            | 99 | 719343   | 50.0             | 50.3               |       |
| 32 2-Nitrophenol              | 139 | 5.434        | 5.434            | 0.000            | 88 | 218448   | 50.0             | 50.7               |       |
| 33 2,4-Dimethylphenol         | 122 | 5.493        | 5.493            | 0.000            | 89 | 346829   | 50.0             | 51.4               |       |

| 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  | 5.569     | 5.569         | 0.000         | 97  | 448593   | 50.0          | 50.3            |       |
| 35 Benzoic acid               | 122 | 5.651     | 5.651         | 0.000         | 89  | 155178   | 50.0          | 49.7            |       |
| 36 2,4-Dichlorophenol         | 162 | 5.687     | 5.687         | 0.000         | 95  | 318794   | 50.0          | 50.6            |       |
| 37 1,2,4-Trichlorobenzene     | 180 | 5.757     | 5.757         | 0.000         | 95  | 367461   | 50.0          | 48.7            |       |
| * 38 Naphthalene-d8           | 136 | 5.816     | 5.816         | 0.000         | 100 | 874145   | 40.0          | 40.0            |       |
| 39 Naphthalene                | 128 | 5.840     | 5.840         | 0.000         | 99  | 1147537  | 50.0          | 49.8            |       |
| 40 4-Chloroaniline            | 127 | 5.904     | 5.904         | 0.000         | 95  | 433283   | 50.0          | 50.4            |       |
| 41 Hexachlorobutadiene        | 225 | 5.963     | 5.963         | 0.000         | 95  | 220622   | 50.0          | 49.4            |       |
| 43 4-Chloro-3-methylphenol    | 107 | 6.398     | 6.398         | 0.000         | 96  | 315056   | 50.0          | 51.1            |       |
| 44 2-Methylnaphthalene        | 142 | 6.528     | 6.528         | 0.000         | 85  | 733516   | 50.0          | 49.3            |       |
| 45 1-Methylnaphthalene        | 142 | 6.628     | 6.628         | 0.000         | 93  | 637875   | 50.0          | 50.0            |       |
| 46 Hexachlorocyclopentadiene  | 237 | 6.693     | 6.693         | 0.000         | 96  | 182841   | 50.0          | 57.7            |       |
| 47 1,2,4,5-Tetrachlorobenzene | 216 | 6.698     | 6.698         | 0.000         | 96  | 325791   | 50.0          | 50.0            |       |
| 48 2-tertbutyl-4-methylphenol | 149 | 6.740     | 6.740         | 0.000         | 90  | 486166   | 50.0          | 52.2            |       |
| 49 2,4,6-Trichlorophenol      | 196 | 6.822     | 6.822         | 0.000         | 89  | 204067   | 50.0          | 52.6            |       |
| 50 2,4,5-Trichlorophenol      | 196 | 6.863     | 6.863         | 0.000         | 96  | 216210   | 50.0          | 53.5            |       |
| \$ 51 2-Fluorobiphenyl        | 172 | 6.898     | 6.898         | 0.000         | 98  | 783782   | 50.0          | 52.0            |       |
| 52 1,1'-Biphenyl              | 154 | 6.998     | 6.998         | 0.000         | 95  | 815953   | 50.0          | 50.2            |       |
| 53 2-Chloronaphthalene        | 162 | 7.022     | 7.022         | 0.000         | 97  | 610048   | 50.0          | 50.1            |       |
| 54 Phenyl ether               | 170 | 7.098     | 7.098         | 0.000         | 86  | 431912   | 50.0          | 50.9            |       |
| 55 2-Nitroaniline             | 65  | 7.134     | 7.134         | 0.000         | 96  | 191308   | 50.0          | 50.7            |       |
| 57 1,3-Dimethylnaphthalene    | 156 | 7.234     | 7.234         | 0.000         | 91  | 516976   | 50.0          | 51.5            |       |
| 58 Dimethyl phthalate         | 163 | 7.316     | 7.316         | 0.000         | 99  | 593583   | 50.0          | 49.0            |       |
| 59 Coumarin                   | 146 | 7.340     | 7.340         | 0.000         | 77  | 190591   | 50.0          | 49.6            |       |
| 60 2,6-Dinitrotoluene         | 165 | 7.369     | 7.369         | 0.000         | 96  | 143602   | 50.0          | 51.3            |       |
| 63 Acenaphthylene             | 152 | 7.434     | 7.434         | 0.000         | 98  | 894728   | 50.0          | 50.4            |       |
| 64 3-Nitroaniline             | 138 | 7.545     | 7.545         | 0.000         | 92  | 143941   | 50.0          | 50.4            |       |
| * 65 Acenaphthene-d10         | 164 | 7.575     | 7.575         | 0.000         | 92  | 400725   | 40.0          | 40.0            |       |
| 66 3,5-di-tert-butyl-4-hydrox | 205 | 7.587     | 7.587         | 0.000         | 97  | 595638   | 50.0          | 53.4            |       |
| 67 Acenaphthene               | 154 | 7.604     | 7.604         | 0.000         | 94  | 557117   | 50.0          | 49.2            |       |
| 68 2,4-Dinitrophenol          | 184 | 7.645     | 7.645         | 0.000         | 96  | 172464   | 100.0         | 100.8           |       |
| 69 4-Nitrophenol              | 65  | 7.739     | 7.739         | 0.000         | 93  | 210643   | 100.0         | 107.8           |       |
| 70 2,4-Dinitrotoluene         | 165 | 7.769     | 7.769         | 0.000         | 94  | 168179   | 50.0          | 48.2            |       |
| 71 Dibenzofuran               | 168 | 7.775     | 7.775         | 0.000         | 95  | 790616   | 50.0          | 49.2            |       |
| 72 2,3,4,6-Tetrachlorophenol  | 232 | 7.904     | 7.904         | 0.000         | 93  | 149531   | 50.0          | 50.9            |       |
| 73 Diethyl phthalate          | 149 | 8.004     | 8.004         | 0.000         | 98  | 545811   | 50.0          | 48.4            |       |
| 75 4-Chlorophenyl phenyl ethe | 204 | 8.110     | 8.110         | 0.000         | 85  | 306117   | 50.0          | 49.7            |       |
| 74 Fluorene                   | 166 | 8.116     | 8.116         | 0.000         | 95  | 618972   | 50.0          | 49.0            |       |
| 76 4-Nitroaniline             | 138 | 8.169     | 8.169         | 0.000         | 91  | 116578   | 50.0          | 49.5            |       |
| 77 4,6-Dinitro-2-methylphenol | 198 | 8.181     | 8.181         | 0.000         | 85  | 190536   | 100.0         | 99.9            |       |
| 78 N-Nitrosodiphenylamine     | 169 | 8.239     | 8.239         | 0.000         | 67  | 836059   | 100.0         | 102.7           |       |
| 79 1,2-Diphenylhydrazine      | 77  | 8.269     | 8.269         | 0.000         | 97  | 626581   | 50.0          | 51.8            |       |
| \$ 80 2,4,6-Tribromophenol    | 330 | 8.357     | 8.357         | 0.000         | 94  | 88429    | 50.0          | 53.4            |       |
| 81 4-Bromophenyl phenyl ether | 248 | 8.592     | 8.592         | 0.000         | 88  | 168692   | 50.0          | 50.9            |       |
| 82 Hexachlorobenzene          | 284 | 8.663     | 8.663         | 0.000         | 98  | 171085   | 50.0          | 51.3            |       |
| 84 Pentachlorophenol          | 266 | 8.863     | 8.863         | 0.000         | 93  | 178037   | 100.0         | 102.8           |       |
| 85 Pentachloronitrobenzene    | 237 | 8.875     | 8.875         | 0.000         | 88  | 67429    | 50.0          | 52.2            |       |
| 86 n-Octadecane               | 57  | 8.916     | 8.916         | 0.000         | 91  | 526019   | 50.0          | 53.9            |       |
| * 87 Phenanthrene-d10         | 188 | 9.045     | 9.045         | 0.000         | 99  | 531954   | 40.0          | 40.0            |       |
| 88 Phenanthrene               | 178 | 9.069     | 9.069         | 0.000         | 97  | 762653   | 50.0          | 49.4            |       |
| 89 Anthracene                 | 178 | 9.116     | 9.116         | 0.000         | 99  | 763450   | 50.0          | 50.2            |       |
| 90 Carbazole                  | 167 | 9.281     | 9.281         | 0.000         | 96  | 578400   | 50.0          | 49.0            |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|--------------------------------|-----|-----------|---------------|---------------|-----|----------|---------------|-----------------|-------|
| 91 Di-n-butyl phthalate        | 149 | 9.604     | 9.604         | 0.000         | 100 | 722014   | 50.0          | 49.5            |       |
| 92 Fluoranthene                | 202 | 10.239    | 10.239        | 0.000         | 98  | 616540   | 50.0          | 48.4            |       |
| 93 Benzdine                    | 184 | 10.375    | 10.375        | 0.000         | 99  | 222217   | 50.0          | 52.1            |       |
| 94 Pyrene                      | 202 | 10.475    | 10.475        | 0.000         | 98  | 607153   | 50.0          | 49.8            |       |
| 95 Bisphenol-A                 | 213 | 10.533    | 10.533        | 0.000         | 99  | 174649   | 50.0          | 83.1            |       |
| \$ 96 Terphenyl-d14            | 244 | 10.628    | 10.628        | 0.000         | 99  | 446805   | 50.0          | 51.8            |       |
| 97 Butyl benzyl phthalate      | 149 | 11.169    | 11.169        | 0.000         | 98  | 218958   | 50.0          | 50.1            |       |
| 98 2,3,7,8-TCDD                | 320 | 11.286    | 11.286        | 0.000         | 88  | 558      | 0.5000        | 0.5000          |       |
| 99 Carbamazepine               | 193 | 11.310    | 11.310        | 0.000         | 93  | 151150   | 50.0          | 53.5            |       |
| 100 3,3'-Dichlorobenzidine     | 252 | 11.822    | 11.822        | 0.000         | 99  | 135441   | 50.0          | 53.1            |       |
| 101 Benzo[a]anthracene         | 228 | 11.845    | 11.845        | 0.000         | 98  | 392766   | 50.0          | 48.5            |       |
| * 102 Chrysene-d12             | 240 | 11.863    | 11.863        | 0.000         | 99  | 271326   | 40.0          | 40.0            |       |
| 104 Bis(2-ethylhexyl) phthalat | 149 | 11.869    | 11.869        | 0.000         | 89  | 292315   | 50.0          | 49.9            |       |
| 103 Chrysene                   | 228 | 11.898    | 11.898        | 0.000         | 99  | 359978   | 50.0          | 49.3            |       |
| 105 Di-n-octyl phthalate       | 149 | 12.745    | 12.745        | 0.000         | 98  | 412235   | 50.0          | 48.9            |       |
| 106 Benzo[b]fluoranthene       | 252 | 13.292    | 13.292        | 0.000         | 98  | 314293   | 50.0          | 49.0            |       |
| 107 Benzo[k]fluoranthene       | 252 | 13.327    | 13.327        | 0.000         | 99  | 314323   | 50.0          | 48.9            |       |
| 108 Benzo[a]pyrene             | 252 | 13.745    | 13.745        | 0.000         | 98  | 288729   | 50.0          | 51.2            |       |
| * 109 Perylene-d12             | 264 | 13.821    | 13.821        | 0.000         | 99  | 199587   | 40.0          | 40.0            |       |
| 110 Indeno[1,2,3-cd]pyrene     | 276 | 15.421    | 15.421        | 0.000         | 99  | 252004   | 50.0          | 54.4            |       |
| 111 Dibenz(a,h)anthracene      | 278 | 15.457    | 15.457        | 0.000         | 97  | 248165   | 50.0          | 54.9            |       |
| 112 Benzo[g,h,i]perylene       | 276 | 15.874    | 15.874        | 0.000         | 98  | 246322   | 50.0          | 49.6            |       |

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

**Reagents:**

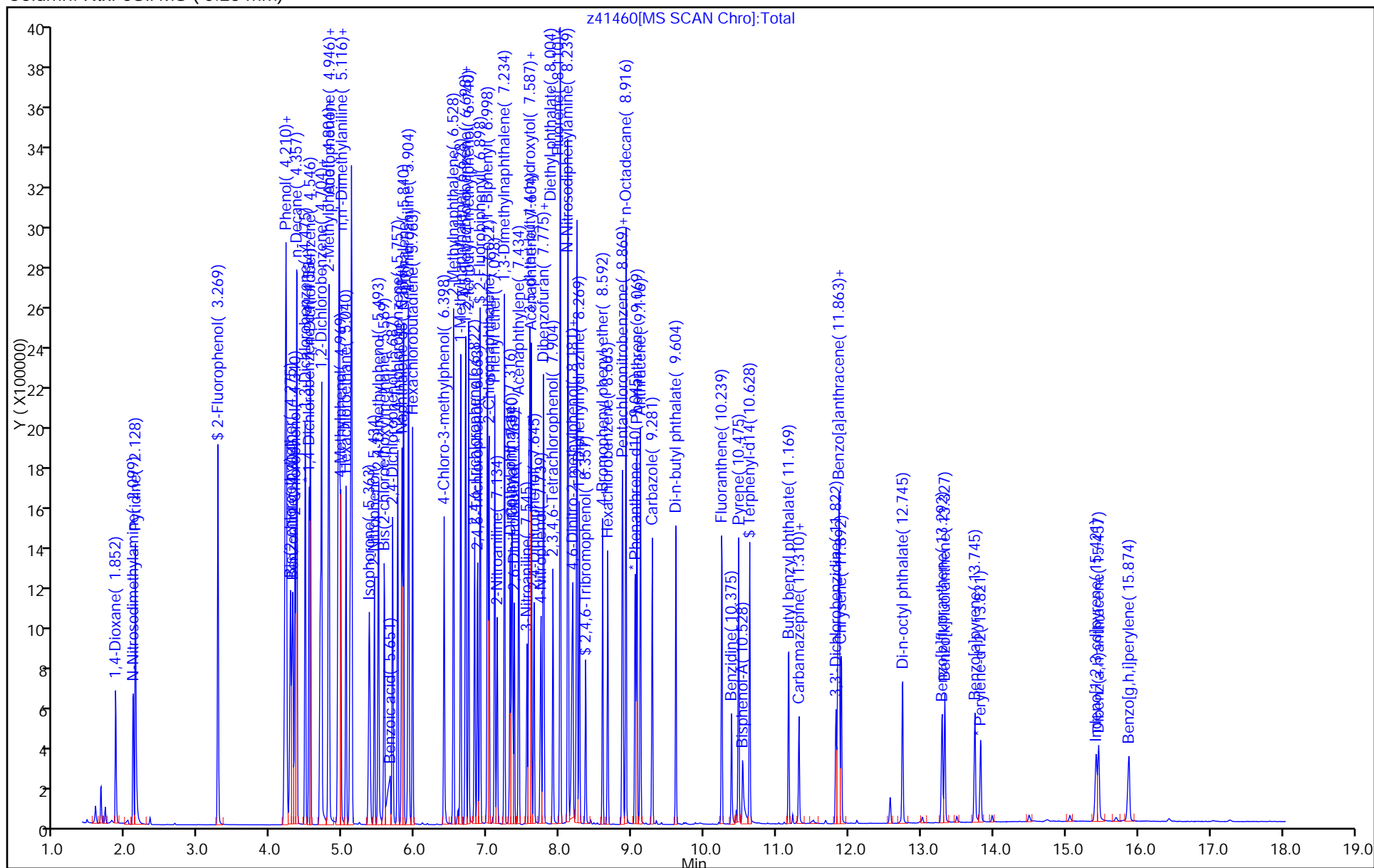
SV\_IC\_BNA\_L6\_00018

Amount Added: 1.00

Units: mL

|                 |  |                |               |
|-----------------|--|----------------|---------------|
| Data File:      | \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160309-38213.b\\z41460.D |                |               |
| Injection Date: | 09-Mar-2016 08:34:30   | Instrument ID: | CBNAMS11      |
| Lims ID:        | icis   |                |               |
| Client ID:      |  |                |               |
| Injection Vol:  | 1.0 ul   | Dil. Factor:   | 1.0000        |
| Method:         | 8270_11R_9   | Limit Group:   | SV 8270D ICAL |
| Column:         | Rtxi-5Sil MS ( 0.25 mm)  |                |               |

ALS Bottle#: 2



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41461.D  
 Lims ID: std120  
 Client ID:  
 Sample Type: IC Calib Level: 9  
 Inject. Date: 09-Mar-2016 09:04:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038213-003  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Sublist: chrom-8270\_11R\_9\*sub18  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 16-Mar-2016 09:03:04 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK034

First Level Reviewer: szczecha

Date: 16-Mar-2016 09:03:03

| Compound                      | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-------------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| 1 1,4-Dioxane                 | 88  | 1.840        | 1.852            | -0.012           | 97 | 470876   | 120.0            | 123.2              |       |
| 2 N-Nitrosodimethylamine      | 74  | 2.099        | 2.099            | 0.000            | 88 | 688520   | 120.0            | 130.5              |       |
| 3 Pyridine                    | 79  | 2.116        | 2.128            | -0.012           | 86 | 1202187  | 120.0            | 130.8              |       |
| \$ 4 2-Fluorophenol           | 112 | 3.275        | 3.269            | 0.006            | 92 | 1270194  | 120.0            | 146.9              |       |
| \$ 6 Phenol-d5                | 99  | 4.228        | 4.199            | 0.029            | 89 | 1483348  | 120.0            | 143.2              |       |
| 7 Phenol                      | 94  | 4.240        | 4.210            | 0.030            | 97 | 1433490  | 120.0            | 129.8              |       |
| 8 Aniline                     | 93  | 4.240        | 4.216            | 0.024            | 96 | 1587946  | 120.0            | 130.7              |       |
| 9 Bis(2-chloroethyl)ether     | 93  | 4.287        | 4.269            | 0.018            | 92 | 1179932  | 120.0            | 139.8              |       |
| 10 Benzonitrile               | 103 | 4.334        | 4.304            | 0.030            | 0  | 1960449  | NC               | NC                 |       |
| 11 2-Chlorophenol             | 128 | 4.351        | 4.340            | 0.011            | 93 | 1020780  | 120.0            | 123.8              |       |
| 12 n-Decane                   | 43  | 4.369        | 4.357            | 0.012            | 86 | 1115569  | 120.0            | 106.5              |       |
| 13 1,3-Dichlorobenzene        | 146 | 4.487        | 4.475            | 0.012            | 94 | 1172495  | 120.0            | 123.5              |       |
| * 14 1,4-Dichlorobenzene-d4   | 152 | 4.540        | 4.528            | 0.012            | 98 | 243487   | 40.0             | 40.0               |       |
| 15 1,4-Dichlorobenzene        | 146 | 4.557        | 4.546            | 0.011            | 93 | 1190501  | 120.0            | 123.4              |       |
| 16 Benzyl alcohol             | 108 | 4.716        | 4.687            | 0.029            | 91 | 587756   | 120.0            | 120.5              |       |
| 17 1,2-Dichlorobenzene        | 146 | 4.710        | 4.704            | 0.006            | 94 | 1102357  | 120.0            | 123.9              |       |
| 19 2,2'-oxybis[1-chloropropan | 45  | 4.810        | 4.804            | 0.006            | 96 | 1344844  | 120.0            | 115.7              |       |
| 18 2-Methylphenol             | 108 | 4.816        | 4.804            | 0.012            | 87 | 943983   | 120.0            | 129.3              |       |
| 20 N-Methylaniline            | 106 | 4.946        | 4.934            | 0.012            | 0  | 1536503  | NC               | NC                 |       |
| 22 Acetophenone               | 105 | 4.969        | 4.946            | 0.023            | 97 | 1351205  | 120.0            | 130.2              |       |
| 21 N-Nitrosodi-n-propylamine  | 70  | 4.981        | 4.951            | 0.030            | 89 | 721378   | 120.0            | 132.7              |       |
| 23 3 & 4 Methylphenol         | 108 | 4.998        | 4.969            | 0.029            | 96 | 929115   | 120.0            | 125.8              |       |
| 24 4-Methylphenol             | 108 | 4.998        | 4.969            | 0.029            | 92 | 929115   | 120.0            | 125.8              |       |
| 25 Hexachloroethane           | 117 | 5.046        | 5.040            | 0.006            | 95 | 446318   | 120.0            | 123.9              |       |
| \$ 26 Nitrobenzene-d5         | 82  | 5.128        | 5.098            | 0.030            | 90 | 1267150  | 120.0            | 141.2              |       |
| 28 n,n'-Dimethylaniline       | 120 | 5.134        | 5.116            | 0.018            | 97 | 1443138  | 120.0            | 136.0              |       |
| 27 Nitrobenzene               | 77  | 5.146        | 5.122            | 0.024            | 94 | 1479655  | 120.0            | 125.6              |       |
| 31 Isophorone                 | 82  | 5.410        | 5.363            | 0.047            | 99 | 1753741  | 120.0            | 127.0              | M     |
| 32 2-Nitrophenol              | 139 | 5.445        | 5.434            | 0.011            | 89 | 552034   | 120.0            | 132.6              |       |
| 33 2,4-Dimethylphenol         | 122 | 5.510        | 5.493            | 0.017            | 89 | 828147   | 120.0            | 127.1              |       |

| 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  | 5.587     | 5.569         | 0.018         | 98  | 1085916  | 120.0         | 126.0           | M     |
| 35 Benzoic acid               | 122 | 5.722     | 5.651         | 0.071         | 85  | 415477   | 120.0         | 119.8           |       |
| 36 2,4-Dichlorophenol         | 162 | 5.704     | 5.687         | 0.017         | 95  | 764315   | 120.0         | 125.5           |       |
| 37 1,2,4-Trichlorobenzene     | 180 | 5.769     | 5.757         | 0.012         | 94  | 889133   | 120.0         | 122.0           |       |
| * 38 Naphthalene-d8           | 136 | 5.822     | 5.816         | 0.006         | 99  | 844696   | 40.0          | 40.0            |       |
| 39 Naphthalene                | 128 | 5.851     | 5.840         | 0.011         | 100 | 2745138  | 120.0         | 123.4           |       |
| 40 4-Chloroaniline            | 127 | 5.922     | 5.904         | 0.018         | 94  | 1035669  | 120.0         | 124.7           |       |
| 41 Hexachlorobutadiene        | 225 | 5.969     | 5.963         | 0.006         | 95  | 517395   | 120.0         | 119.8           |       |
| 43 4-Chloro-3-methylphenol    | 107 | 6.410     | 6.398         | 0.012         | 96  | 758846   | 120.0         | 127.3           |       |
| 44 2-Methylnaphthalene        | 142 | 6.540     | 6.528         | 0.012         | 85  | 1780157  | 120.0         | 123.9           |       |
| 45 1-Methylnaphthalene        | 142 | 6.640     | 6.628         | 0.012         | 93  | 1519030  | 120.0         | 123.3           |       |
| 46 Hexachlorocyclopentadiene  | 237 | 6.698     | 6.693         | 0.006         | 97  | 455611   | 120.0         | 120.8           |       |
| 47 1,2,4,5-Tetrachlorobenzene | 216 | 6.710     | 6.698         | 0.012         | 97  | 775135   | 120.0         | 124.9           |       |
| 48 2-tertbutyl-4-methylphenol | 149 | 6.751     | 6.740         | 0.011         | 90  | 1166320  | 120.0         | 129.6           |       |
| 49 2,4,6-Trichlorophenol      | 196 | 6.834     | 6.822         | 0.012         | 88  | 492224   | 120.0         | 133.2           |       |
| 50 2,4,5-Trichlorophenol      | 196 | 6.875     | 6.863         | 0.012         | 97  | 479011   | 120.0         | 124.6           |       |
| \$ 51 2-Fluorobiphenyl        | 172 | 6.910     | 6.898         | 0.012         | 98  | 2024428  | 120.0         | 141.3           |       |
| 52 1,1'-Biphenyl              | 154 | 7.010     | 6.998         | 0.012         | 95  | 1952660  | 120.0         | 126.3           |       |
| 53 2-Chloronaphthalene        | 162 | 7.034     | 7.022         | 0.012         | 96  | 1452607  | 120.0         | 125.4           |       |
| 54 Phenyl ether               | 170 | 7.110     | 7.098         | 0.012         | 86  | 1027475  | 120.0         | 127.2           |       |
| 55 2-Nitroaniline             | 65  | 7.151     | 7.134         | 0.017         | 95  | 433126   | 120.0         | 120.7           |       |
| 57 1,3-Dimethylnaphthalene    | 156 | 7.245     | 7.234         | 0.011         | 91  | 1153099  | 120.0         | 120.6           |       |
| 58 Dimethyl phthalate         | 163 | 7.334     | 7.316         | 0.018         | 99  | 1369756  | 120.0         | 118.8           |       |
| 59 Coumarin                   | 146 | 7.357     | 7.340         | 0.017         | 77  | 419966   | 120.0         | 113.2           |       |
| 60 2,6-Dinitrotoluene         | 165 | 7.387     | 7.369         | 0.018         | 95  | 324858   | 120.0         | 121.9           |       |
| 63 Acenaphthylene             | 152 | 7.445     | 7.434         | 0.011         | 97  | 2081823  | 120.0         | 123.1           |       |
| 64 3-Nitroaniline             | 138 | 7.563     | 7.545         | 0.018         | 92  | 323650   | 120.0         | 119.0           |       |
| * 65 Acenaphthene-d10         | 164 | 7.581     | 7.575         | 0.006         | 93  | 381328   | 40.0          | 40.0            |       |
| 66 3,5-di-tert-butyl-4-hydrox | 205 | 7.592     | 7.587         | 0.005         | 97  | 1457228  | 120.0         | 137.2           |       |
| 67 Acenaphthene               | 154 | 7.616     | 7.604         | 0.012         | 94  | 1314826  | 120.0         | 122.0           |       |
| 68 2,4-Dinitrophenol          | 184 | 7.663     | 7.645         | 0.018         | 96  | 419285   | 240.0         | 240.3           |       |
| 69 4-Nitrophenol              | 65  | 7.763     | 7.739         | 0.024         | 93  | 492356   | 240.0         | 264.7           |       |
| 70 2,4-Dinitrotoluene         | 165 | 7.787     | 7.769         | 0.018         | 91  | 383141   | 120.0         | 115.4           |       |
| 71 Dibenzofuran               | 168 | 7.792     | 7.775         | 0.017         | 96  | 1817478  | 120.0         | 118.9           |       |
| 72 2,3,4,6-Tetrachlorophenol  | 232 | 7.916     | 7.904         | 0.012         | 93  | 350596   | 120.0         | 125.5           |       |
| 73 Diethyl phthalate          | 149 | 8.028     | 8.004         | 0.024         | 98  | 1236298  | 120.0         | 115.2           |       |
| 75 4-Chlorophenyl phenyl ethe | 204 | 8.122     | 8.110         | 0.012         | 86  | 696547   | 120.0         | 118.9           |       |
| 74 Fluorene                   | 166 | 8.128     | 8.116         | 0.012         | 96  | 1406248  | 120.0         | 117.1           |       |
| 76 4-Nitroaniline             | 138 | 8.204     | 8.169         | 0.035         | 93  | 245111   | 120.0         | 109.3           |       |
| 77 4,6-Dinitro-2-methylphenol | 198 | 8.210     | 8.181         | 0.029         | 86  | 443297   | 240.0         | 257.1           |       |
| 78 N-Nitrosodiphenylamine     | 169 | 8.257     | 8.239         | 0.018         | 66  | 1872872  | 240.0         | 257.9           |       |
| 79 1,2-Diphenylhydrazine      | 77  | 8.281     | 8.269         | 0.012         | 96  | 1423399  | 120.0         | 131.9           |       |
| \$ 80 2,4,6-Tribromophenol    | 330 | 8.375     | 8.357         | 0.018         | 94  | 216672   | 120.0         | 137.5           |       |
| 81 4-Bromophenyl phenyl ether | 248 | 8.604     | 8.592         | 0.012         | 91  | 389083   | 120.0         | 131.6           |       |
| 82 Hexachlorobenzene          | 284 | 8.675     | 8.663         | 0.012         | 98  | 390126   | 120.0         | 131.2           |       |
| 84 Pentachlorophenol          | 266 | 8.875     | 8.863         | 0.012         | 93  | 419974   | 240.0         | 240.4           |       |
| 85 Pentachloronitrobenzene    | 237 | 8.881     | 8.875         | 0.006         | 88  | 137186   | 120.0         | 119.0           |       |
| 86 n-Octadecane               | 57  | 8.922     | 8.916         | 0.006         | 90  | 1162990  | 120.0         | 133.5           |       |
| * 87 Phenanthrene-d10         | 188 | 9.045     | 9.045         | 0.000         | 99  | 474691   | 40.0          | 40.0            |       |
| 88 Phenanthrene               | 178 | 9.075     | 9.069         | 0.006         | 98  | 1689347  | 120.0         | 122.7           |       |
| 89 Anthracene                 | 178 | 9.128     | 9.116         | 0.012         | 98  | 1691964  | 120.0         | 124.7           |       |
| 90 Carbazole                  | 167 | 9.286     | 9.281         | 0.005         | 96  | 1288578  | 120.0         | 122.4           |       |



| Compound                       | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|--------------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 91 Di-n-butyl phthalate        | 149 | 9.610        | 9.604            | 0.006            | 100 | 1629658  | 120.0            | 125.3              |       |
| 92 Fluoranthene                | 202 | 10.251       | 10.239           | 0.012            | 98  | 1349433  | 120.0            | 118.8              |       |
| 93 Benzidine                   | 184 | 10.380       | 10.375           | 0.005            | 99  | 516510   | 120.0            | 135.7              |       |
| 94 Pyrene                      | 202 | 10.480       | 10.475           | 0.005            | 98  | 1345434  | 120.0            | 122.8              |       |
| 95 Bisphenol-A                 | 213 | 10.533       | 10.533           | 0.000            | 99  | 378291   | 120.0            | 200.1              |       |
| \$ 96 Terphenyl-d14            | 244 | 10.633       | 10.628           | 0.005            | 99  | 1082688  | 120.0            | 139.6              |       |
| 97 Butyl benzyl phthalate      | 149 | 11.169       | 11.169           | 0.000            | 98  | 492747   | 120.0            | 125.4              |       |
| 99 Carbamazepine               | 193 | 11.322       | 11.310           | 0.012            | 92  | 387703   | 120.0            | 152.7              |       |
| 100 3,3'-Dichlorobenzidine     | 252 | 11.827       | 11.822           | 0.005            | 99  | 325098   | 120.0            | 141.7              |       |
| 101 Benzo[a]anthracene         | 228 | 11.857       | 11.845           | 0.012            | 98  | 901625   | 120.0            | 123.9              |       |
| * 102 Chrysene-d12             | 240 | 11.869       | 11.863           | 0.006            | 99  | 243909   | 40.0             | 40.0               |       |
| 104 Bis(2-ethylhexyl) phthalat | 149 | 11.874       | 11.869           | 0.005            | 90  | 682519   | 120.0            | 129.6              |       |
| 103 Chrysene                   | 228 | 11.904       | 11.898           | 0.006            | 99  | 819230   | 120.0            | 124.9              |       |
| 105 Di-n-octyl phthalate       | 149 | 12.751       | 12.745           | 0.006            | 97  | 996527   | 120.0            | 124.8              |       |
| 106 Benzo[b]fluoranthene       | 252 | 13.298       | 13.292           | 0.006            | 98  | 744341   | 120.0            | 122.5              |       |
| 107 Benzo[k]fluoranthene       | 252 | 13.339       | 13.327           | 0.012            | 99  | 792260   | 120.0            | 130.3              |       |
| 108 Benzo[a]pyrene             | 252 | 13.757       | 13.745           | 0.012            | 98  | 719753   | 120.0            | 134.7              |       |
| * 109 Perylene-d12             | 264 | 13.827       | 13.821           | 0.006            | 98  | 188980   | 40.0             | 40.0               |       |
| 110 Indeno[1,2,3-cd]pyrene     | 276 | 15.439       | 15.421           | 0.018            | 99  | 701123   | 120.0            | 159.9              |       |
| 111 Dibenz(a,h)anthracene      | 278 | 15.480       | 15.457           | 0.023            | 98  | 670166   | 120.0            | 156.7              |       |
| 112 Benzo[g,h,i]perylene       | 276 | 15.904       | 15.874           | 0.030            | 98  | 697844   | 120.0            | 148.5              |       |
| S 119 Total Cresols            | 1   |              |                  |                  | 0   |          |                  | 255.0              |       |

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

**Reagents:**

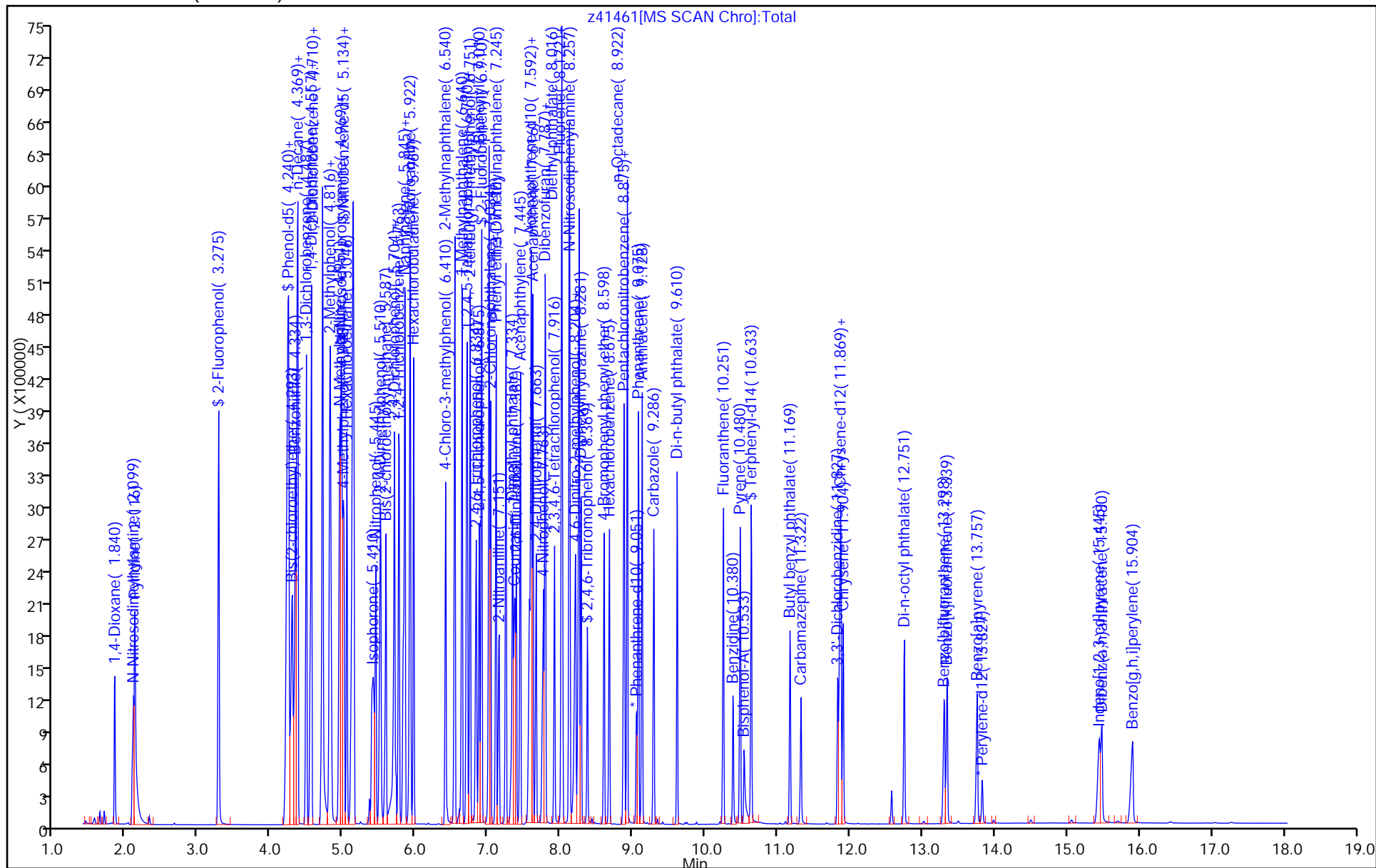
SV\_IC\_BNA\_L8\_00010

Amount Added: 1.00

Units: mL

|                 |  |                |               |
|-----------------|--|----------------|---------------|
| Data File:      | \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160309-38213.b\\z41461.D |                |               |
| Injection Date: | 09-Mar-2016 09:04:30   | Instrument ID: | CBNAMS11      |
| Lims ID:        | std120   |                |               |
| Client ID:      |  |                |               |
| Injection Vol:  | 1.0 ul   | Dil. Factor:   | 1.0000        |
| Method:         | 8270_11R_9   | Limit Group:   | SV 8270D ICAL |
| Column:         | Rtxi-5Sil MS ( 0.25 mm)  |                |               |

ALS Bottle#: 3





## TestAmerica Edison

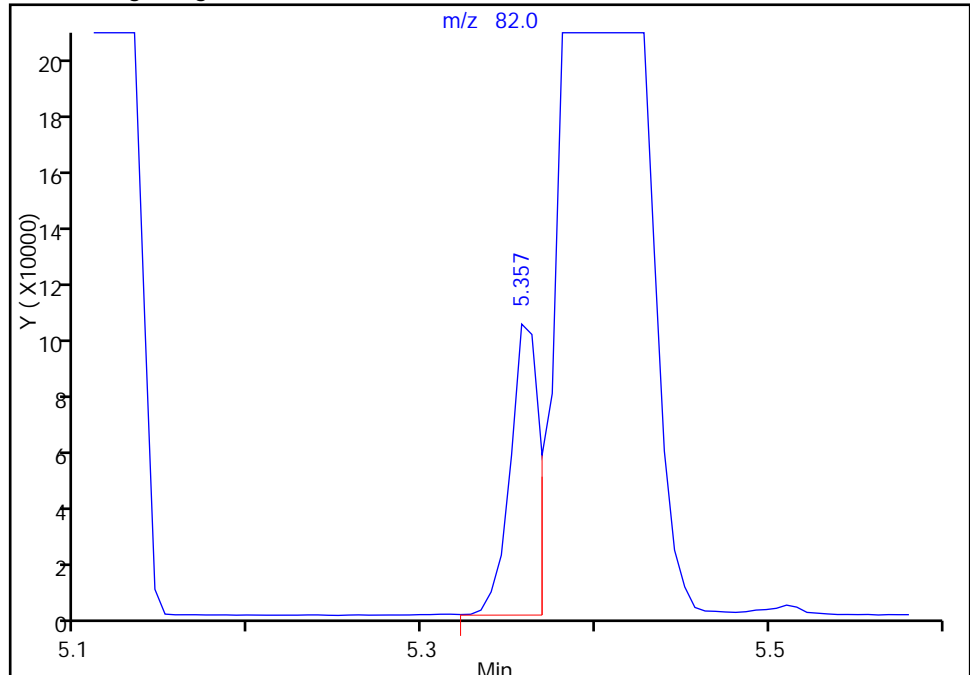
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Injection Date: 09-Mar-2016 09:04:30 Instrument ID: CBNAMS11  
Lims ID: std120  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_11R\_9  
Column: Rtxi-5Sil MS (0.25 mm)

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

## 31 Isophorone, CAS: 78-59-1

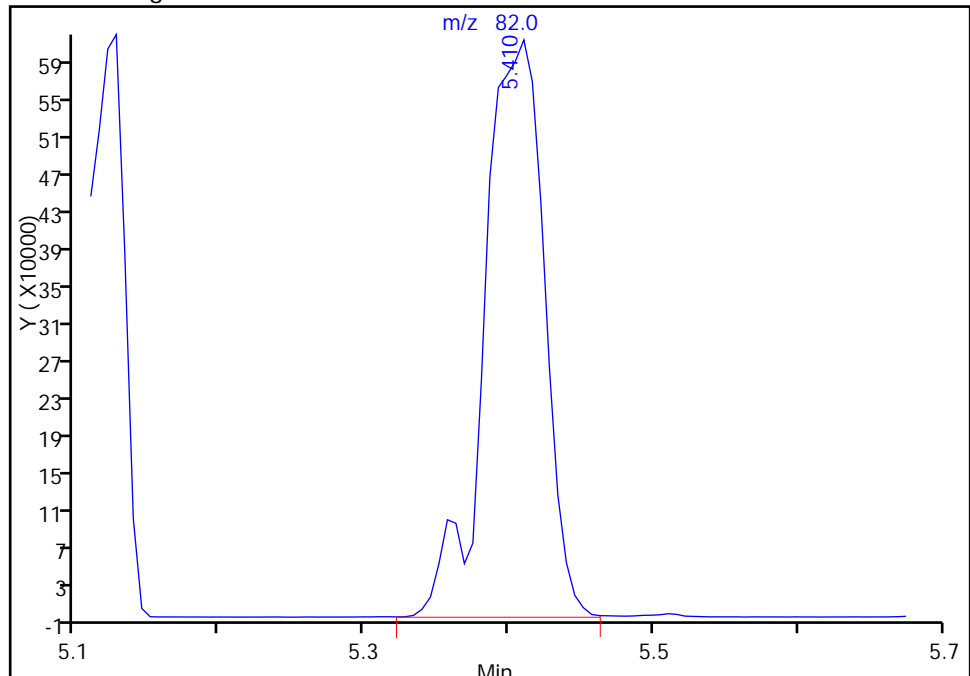
RT: 5.36  
Area: 122271  
Amount: 10.306018  
Amount Units: ug/ml

## Processing Integration Results



RT: 5.41  
Area: 1753741  
Amount: 127.0250  
Amount Units: ug/ml

## Manual Integration Results



Reviewer: szczecha, 09-Mar-2016 15:16:01  
Audit Action: Manually Integrated  
Audit Reason: Baseline

## TestAmerica Edison

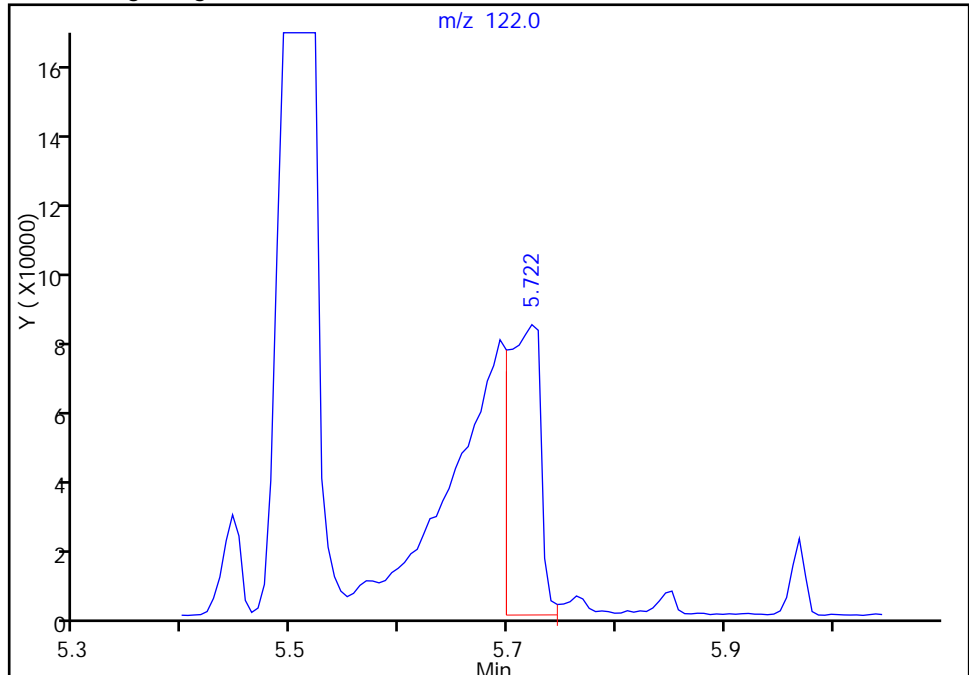
Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41461.D  
Injection Date: 09-Mar-2016 09:04:30 Instrument ID: CBNAMS11  
Lims ID: std120  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_11R\_9  
Column: Rtxi-5Sil MS (0.25 mm)

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

## 35 Benzoic acid, CAS: 65-85-0

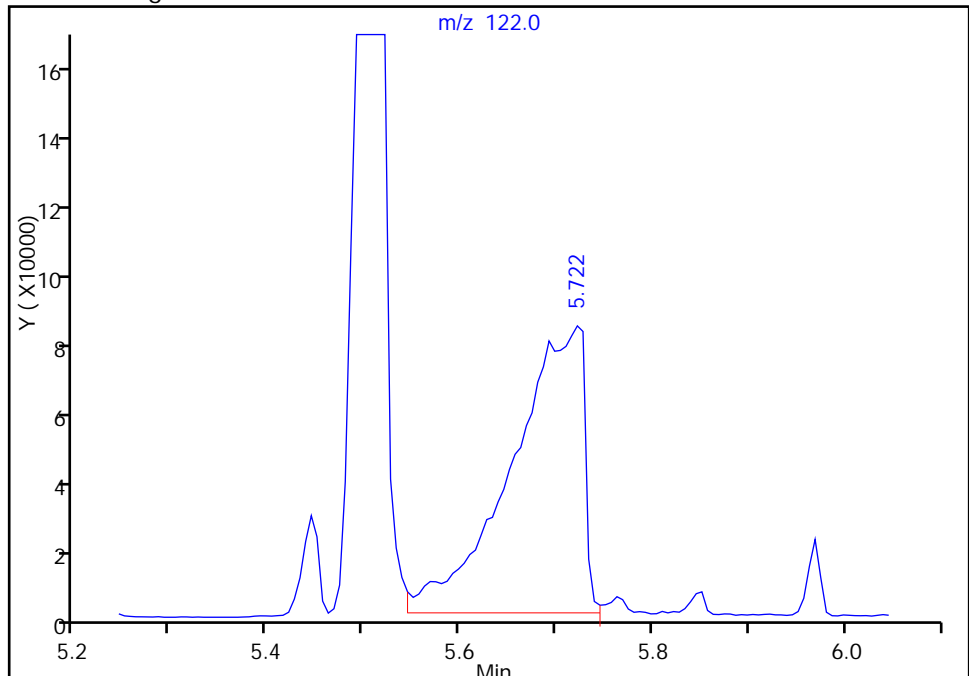
RT: 5.72  
Area: 168629  
Amount: 90.107037  
Amount Units: ug/ml

## Processing Integration Results



RT: 5.72  
Area: 415477  
Amount: 119.7536  
Amount Units: ug/ml

## Manual Integration Results



Reviewer: szczecha, 09-Mar-2016 15:16:01  
Audit Action: Manually Integrated  
Audit Reason: Baseline

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41462.D  
 Lims ID: std80  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 09-Mar-2016 09:28:30 ALS Bottle#: 4 Worklist Smp#: 4  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038213-004  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Sublist: chrom-8270\_11R\_9\*sub18  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 16-Mar-2016 09:03:28 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK034

First Level Reviewer: szczecha

Date: 09-Mar-2016 15:38:49

| Compound                      | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-------------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| 1 1,4-Dioxane                 | 88  | 1.834        | 1.852            | -0.018           | 97 | 253731   | 80.0             | 78.3               |       |
| 2 N-Nitrosodimethylamine      | 74  | 2.081        | 2.099            | -0.018           | 88 | 351694   | 80.0             | 78.6               |       |
| 3 Pyridine                    | 79  | 2.110        | 2.128            | -0.018           | 87 | 617654   | 80.0             | 79.2               |       |
| \$ 4 2-Fluorophenol           | 112 | 3.269        | 3.269            | 0.000            | 93 | 580547   | 80.0             | 79.2               |       |
| \$ 6 Phenol-d5                | 99  | 4.204        | 4.199            | 0.005            | 92 | 691252   | 80.0             | 78.7               |       |
| 7 Phenol                      | 94  | 4.222        | 4.210            | 0.012            | 97 | 738898   | 80.0             | 78.9               |       |
| 8 Aniline                     | 93  | 4.216        | 4.216            | 0.000            | 94 | 828344   | 80.0             | 80.4               |       |
| 9 Bis(2-chloroethyl)ether     | 93  | 4.275        | 4.269            | 0.006            | 95 | 569678   | 80.0             | 79.6               |       |
| 10 Benzonitrile               | 103 | 4.310        | 4.304            | 0.006            | 0  | 1009957  | NC               | NC                 |       |
| 11 2-Chlorophenol             | 128 | 4.339        | 4.340            | -0.001           | 93 | 554394   | 80.0             | 79.3               |       |
| 12 n-Decane                   | 43  | 4.363        | 4.357            | 0.006            | 87 | 665671   | 80.0             | 74.9               |       |
| 13 1,3-Dichlorobenzene        | 146 | 4.481        | 4.475            | 0.006            | 94 | 630244   | 80.0             | 78.3               |       |
| * 14 1,4-Dichlorobenzene-d4   | 152 | 4.534        | 4.528            | 0.006            | 98 | 206515   | 40.0             | 40.0               |       |
| 15 1,4-Dichlorobenzene        | 146 | 4.551        | 4.546            | 0.005            | 93 | 637313   | 80.0             | 77.9               |       |
| 16 Benzyl alcohol             | 108 | 4.692        | 4.687            | 0.005            | 92 | 302327   | 80.0             | 77.7               |       |
| 17 1,2-Dichlorobenzene        | 146 | 4.704        | 4.704            | 0.000            | 94 | 592539   | 80.0             | 78.5               |       |
| 19 2,2'-oxybis[1-chloropropan | 45  | 4.804        | 4.804            | 0.000            | 87 | 743739   | 80.0             | 75.5               |       |
| 18 2-Methylphenol             | 108 | 4.804        | 4.804            | 0.000            | 79 | 506050   | 80.0             | 81.7               |       |
| 20 N-Methylaniline            | 106 | 4.934        | 4.934            | 0.000            | 0  | 789031   | NC               | NC                 |       |
| 22 Acetophenone               | 105 | 4.951        | 4.946            | 0.005            | 95 | 712335   | 80.0             | 81.0               |       |
| 21 N-Nitrosodi-n-propylamine  | 70  | 4.957        | 4.951            | 0.006            | 86 | 343751   | 80.0             | 74.6               |       |
| 23 3 & 4 Methylphenol         | 108 | 4.975        | 4.969            | 0.006            | 96 | 500032   | 80.0             | 79.8               |       |
| 24 4-Methylphenol             | 108 | 4.975        | 4.969            | 0.006            | 92 | 500032   | 80.0             | 79.8               |       |
| 25 Hexachloroethane           | 117 | 5.039        | 5.040            | -0.001           | 95 | 238595   | 80.0             | 78.1               |       |
| \$ 26 Nitrobenzene-d5         | 82  | 5.104        | 5.098            | 0.006            | 91 | 604890   | 80.0             | 80.3               |       |
| 28 n,n'-Dimethylaniline       | 120 | 5.122        | 5.116            | 0.006            | 97 | 740556   | 80.0             | 82.3               |       |
| 27 Nitrobenzene               | 77  | 5.128        | 5.122            | 0.006            | 94 | 782738   | 80.0             | 79.2               |       |
| 31 Isophorone                 | 82  | 5.375        | 5.363            | 0.012            | 99 | 942577   | 80.0             | 81.3               |       |
| 32 2-Nitrophenol              | 139 | 5.439        | 5.434            | 0.005            | 89 | 278973   | 80.0             | 79.8               |       |
| 33 2,4-Dimethylphenol         | 122 | 5.498        | 5.493            | 0.005            | 90 | 451277   | 80.0             | 82.5               |       |

| 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  | 5.575     | 5.569         | 0.006         | 98  | 581884   | 80.0          | 80.5            |       |
| 35 Benzoic acid               | 122 | 5.675     | 5.651         | 0.024         | 88  | 220878   | 80.0          | 80.8            |       |
| 36 2,4-Dichlorophenol         | 162 | 5.692     | 5.687         | 0.005         | 95  | 414422   | 80.0          | 81.1            |       |
| 37 1,2,4-Trichlorobenzene     | 180 | 5.757     | 5.757         | 0.000         | 94  | 477148   | 80.0          | 78.0            |       |
| * 38 Naphthalene-d8           | 136 | 5.816     | 5.816         | 0.000         | 100 | 708931   | 40.0          | 40.0            |       |
| 39 Naphthalene                | 128 | 5.839     | 5.840         | -0.001        | 99  | 1479179  | 80.0          | 79.2            |       |
| 40 4-Chloroaniline            | 127 | 5.910     | 5.904         | 0.006         | 92  | 554421   | 80.0          | 79.5            |       |
| 41 Hexachlorobutadiene        | 225 | 5.963     | 5.963         | 0.000         | 95  | 279790   | 80.0          | 77.2            |       |
| 43 4-Chloro-3-methylphenol    | 107 | 6.404     | 6.398         | 0.006         | 96  | 416246   | 80.0          | 83.2            |       |
| 44 2-Methylnaphthalene        | 142 | 6.533     | 6.528         | 0.005         | 85  | 971544   | 80.0          | 80.6            |       |
| 45 1-Methylnaphthalene        | 142 | 6.633     | 6.628         | 0.005         | 93  | 831267   | 80.0          | 80.4            |       |
| 46 Hexachlorocyclopentadiene  | 237 | 6.692     | 6.693         | 0.000         | 96  | 216986   | 80.0          | 75.5            |       |
| 47 1,2,4,5-Tetrachlorobenzene | 216 | 6.704     | 6.698         | 0.006         | 97  | 431568   | 80.0          | 78.2            |       |
| 48 2-tertbutyl-4-methylphenol | 149 | 6.739     | 6.740         | -0.001        | 90  | 614279   | 80.0          | 81.3            |       |
| 49 2,4,6-Trichlorophenol      | 196 | 6.822     | 6.822         | 0.000         | 89  | 267877   | 80.0          | 81.5            |       |
| 50 2,4,5-Trichlorophenol      | 196 | 6.863     | 6.863         | 0.000         | 96  | 287367   | 80.0          | 84.0            |       |
| \$ 51 2-Fluorobiphenyl        | 172 | 6.904     | 6.898         | 0.006         | 98  | 1001836  | 80.0          | 78.6            |       |
| 52 1,1'-Biphenyl              | 154 | 7.004     | 6.998         | 0.006         | 95  | 1097083  | 80.0          | 79.8            |       |
| 53 2-Chloronaphthalene        | 162 | 7.022     | 7.022         | 0.000         | 98  | 802944   | 80.0          | 77.9            |       |
| 54 Phenyl ether               | 170 | 7.104     | 7.098         | 0.006         | 86  | 554814   | 80.0          | 77.2            |       |
| 55 2-Nitroaniline             | 65  | 7.139     | 7.134         | 0.005         | 96  | 254155   | 80.0          | 79.6            |       |
| 57 1,3-Dimethylnaphthalene    | 156 | 7.239     | 7.234         | 0.005         | 91  | 629923   | 80.0          | 74.1            |       |
| 58 Dimethyl phthalate         | 163 | 7.322     | 7.316         | 0.006         | 99  | 796010   | 80.0          | 77.7            |       |
| 59 Coumarin                   | 146 | 7.339     | 7.340         | -0.001        | 78  | 239542   | 80.0          | 76.9            |       |
| 60 2,6-Dinitrotoluene         | 165 | 7.375     | 7.369         | 0.006         | 94  | 187495   | 80.0          | 79.1            |       |
| 63 Acenaphthylene             | 152 | 7.433     | 7.434         | -0.001        | 98  | 1187078  | 80.0          | 79.0            |       |
| 64 3-Nitroaniline             | 138 | 7.551     | 7.545         | 0.006         | 92  | 189621   | 80.0          | 78.4            |       |
| * 65 Acenaphthene-d10         | 164 | 7.575     | 7.575         | 0.000         | 93  | 339089   | 40.0          | 40.0            |       |
| 66 3,5-di-tert-butyl-4-hydrox | 205 | 7.586     | 7.587         | -0.001        | 97  | 776659   | 80.0          | 82.2            |       |
| 67 Acenaphthene               | 154 | 7.610     | 7.604         | 0.006         | 94  | 748057   | 80.0          | 78.0            |       |
| 68 2,4-Dinitrophenol          | 184 | 7.651     | 7.645         | 0.006         | 96  | 237948   | 160.0         | 159.1           |       |
| 69 4-Nitrophenol              | 65  | 7.745     | 7.739         | 0.006         | 93  | 275996   | 160.0         | 166.9           |       |
| 70 2,4-Dinitrotoluene         | 165 | 7.775     | 7.769         | 0.006         | 93  | 224210   | 80.0          | 76.0            |       |
| 71 Dibenzofuran               | 168 | 7.780     | 7.775         | 0.005         | 95  | 1044902  | 80.0          | 76.9            |       |
| 72 2,3,4,6-Tetrachlorophenol  | 232 | 7.910     | 7.904         | 0.006         | 94  | 195353   | 80.0          | 78.6            |       |
| 73 Diethyl phthalate          | 149 | 8.010     | 8.004         | 0.006         | 94  | 715430   | 80.0          | 75.0            |       |
| 75 4-Chlorophenyl phenyl ethe | 204 | 8.110     | 8.110         | 0.000         | 88  | 405550   | 80.0          | 77.8            |       |
| 74 Fluorene                   | 166 | 8.116     | 8.116         | 0.000         | 96  | 819218   | 80.0          | 76.7            |       |
| 76 4-Nitroaniline             | 138 | 8.175     | 8.169         | 0.006         | 91  | 156080   | 80.0          | 78.2            |       |
| 77 4,6-Dinitro-2-methylphenol | 198 | 8.186     | 8.181         | 0.005         | 91  | 255870   | 160.0         | 159.7           |       |
| 78 N-Nitrosodiphenylamine     | 169 | 8.245     | 8.239         | 0.006         | 66  | 1107166  | 160.0         | 163.2           |       |
| 79 1,2-Diphenylhydrazine      | 77  | 8.275     | 8.269         | 0.006         | 97  | 826349   | 80.0          | 82.0            |       |
| \$ 80 2,4,6-Tribromophenol    | 330 | 8.363     | 8.357         | 0.006         | 94  | 110166   | 80.0          | 78.6            |       |
| 81 4-Bromophenyl phenyl ether | 248 | 8.592     | 8.592         | 0.000         | 88  | 221405   | 80.0          | 80.1            |       |
| 82 Hexachlorobenzene          | 284 | 8.669     | 8.663         | 0.006         | 98  | 229396   | 80.0          | 82.6            |       |
| 84 Pentachlorophenol          | 266 | 8.869     | 8.863         | 0.006         | 92  | 240826   | 160.0         | 158.0           |       |
| 85 Pentachloronitrobenzene    | 237 | 8.874     | 8.875         | -0.001        | 88  | 79378    | 80.0          | 73.7            |       |
| 86 n-Octadecane               | 57  | 8.916     | 8.916         | 0.000         | 91  | 679376   | 80.0          | 83.5            |       |
| * 87 Phenanthrene-d10         | 188 | 9.039     | 9.045         | -0.006        | 99  | 443435   | 40.0          | 40.0            |       |
| 88 Phenanthrene               | 178 | 9.069     | 9.069         | 0.000         | 97  | 997117   | 80.0          | 77.5            |       |
| 89 Anthracene                 | 178 | 9.116     | 9.116         | 0.000         | 99  | 1003712  | 80.0          | 79.2            |       |
| 90 Carbazole                  | 167 | 9.280     | 9.281         | -0.001        | 96  | 759280   | 80.0          | 77.2            |       |

| Compound                       | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|--------------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 91 Di-n-butyl phthalate        | 149 | 9.604        | 9.604            | 0.000            | 100 | 951854   | 80.0             | 78.4               |       |
| 92 Fluoranthene                | 202 | 10.239       | 10.239           | 0.000            | 98  | 809817   | 80.0             | 76.3               |       |
| 93 Benzidine                   | 184 | 10.374       | 10.375           | -0.001           | 99  | 305072   | 80.0             | 85.8               |       |
| 94 Pyrene                      | 202 | 10.474       | 10.475           | -0.001           | 98  | 797738   | 80.0             | 78.1               |       |
| 95 Bisphenol-A                 | 213 | 10.533       | 10.533           | 0.000            | 99  | 165131   | 80.0             | 93.7               |       |
| \$ 96 Terphenyl-d14            | 244 | 10.627       | 10.628           | -0.001           | 99  | 568385   | 80.0             | 78.6               |       |
| 97 Butyl benzyl phthalate      | 149 | 11.163       | 11.169           | -0.006           | 98  | 290769   | 80.0             | 79.4               |       |
| 99 Carbamazepine               | 193 | 11.310       | 11.310           | 0.000            | 93  | 204333   | 80.0             | 86.4               |       |
| 100 3,3'-Dichlorobenzidine     | 252 | 11.821       | 11.822           | -0.001           | 99  | 194769   | 80.0             | 91.1               |       |
| 101 Benzo[a]anthracene         | 228 | 11.845       | 11.845           | 0.000            | 98  | 530878   | 80.0             | 78.3               |       |
| * 102 Chrysene-d12             | 240 | 11.863       | 11.863           | 0.000            | 99  | 227297   | 40.0             | 40.0               |       |
| 104 Bis(2-ethylhexyl) phthalat | 149 | 11.868       | 11.869           | -0.001           | 89  | 401157   | 80.0             | 81.7               |       |
| 103 Chrysene                   | 228 | 11.892       | 11.898           | -0.006           | 99  | 482988   | 80.0             | 79.0               |       |
| 105 Di-n-octyl phthalate       | 149 | 12.739       | 12.745           | -0.006           | 97  | 565076   | 80.0             | 80.9               |       |
| 106 Benzo[b]fluoranthene       | 252 | 13.286       | 13.292           | -0.006           | 98  | 417228   | 80.0             | 78.6               |       |
| 107 Benzo[k]fluoranthene       | 252 | 13.327       | 13.327           | 0.000            | 99  | 456829   | 80.0             | 86.0               |       |
| 108 Benzo[a]pyrene             | 252 | 13.745       | 13.745           | 0.000            | 98  | 402510   | 80.0             | 86.2               |       |
| * 109 Perylene-d12             | 264 | 13.821       | 13.821           | 0.000            | 99  | 165177   | 40.0             | 40.0               |       |
| 110 Indeno[1,2,3-cd]pyrene     | 276 | 15.421       | 15.421           | 0.000            | 99  | 356009   | 80.0             | 92.9               |       |
| 111 Dibenz(a,h)anthracene      | 278 | 15.456       | 15.457           | -0.001           | 98  | 356243   | 80.0             | 95.3               |       |
| 112 Benzo[g,h,i]perylene       | 276 | 15.874       | 15.874           | 0.000            | 98  | 364104   | 80.0             | 88.6               |       |
| S 119 Total Cresols            | 1   |              |                  |                  | 0   |          |                  | 161.5              |       |

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

**Reagents:**

SV\_IC\_BNA\_L7\_00010

Amount Added: 1.00

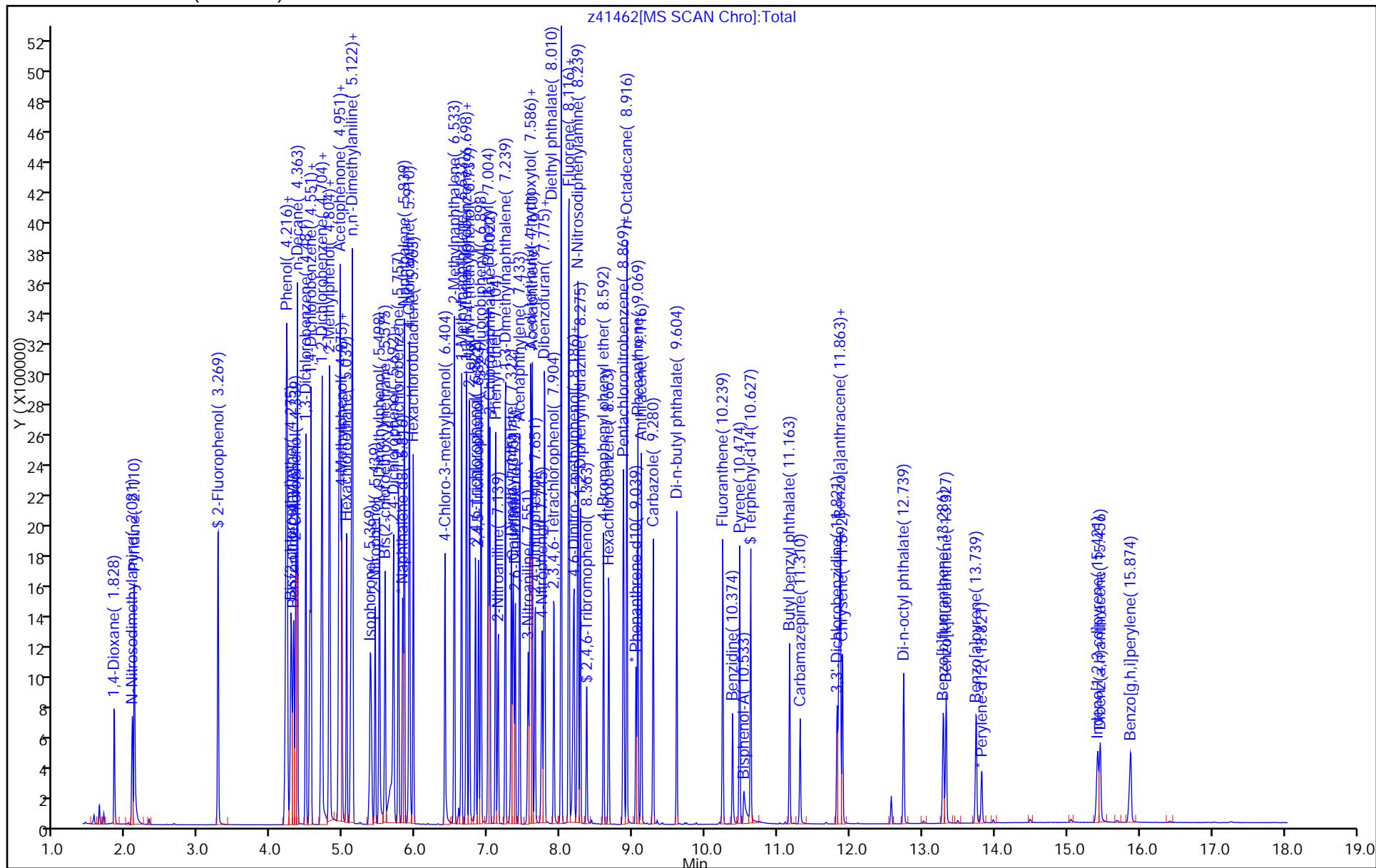
Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160309-38213.b\\z41462.D  
Injection Date: 09-Mar-2016 09:28:30 Instrument ID: CBNAMS11  
Lims ID: std80  
Client ID:  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8270\_11R\_9 Limit Group: SV 8270D ICAL  
Column: Rtxi-5Sil MS (0.25 mm)

Operator ID:  
Worklist Smp#: 4

ALS Bottle#: 4



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41463.D  
 Lims ID: std20  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 09-Mar-2016 09:52:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038213-005  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Sublist: chrom-8270\_11R\_9\*sub18  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 16-Mar-2016 09:03:47 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK034

First Level Reviewer: szczecha

Date: 09-Mar-2016 15:38:57

Second Level Reviewer: szczecha

Date: 16-Mar-2016 09:03:47

| 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  | 1.846     | 1.852         | -0.006        | 96 | 72952    | 20.0          | 19.6            |       |
| 2 N-Nitrosodimethylamine      | 74  | 2.081     | 2.099         | -0.018        | 87 | 99345    | 20.0          | 19.3            |       |
| 3 Pyridine                    | 79  | 2.116     | 2.128         | -0.012        | 85 | 168365   | 20.0          | 18.8            |       |
| \$ 4 2-Fluorophenol           | 112 | 3.263     | 3.269         | -0.006        | 92 | 157021   | 20.0          | 18.6            |       |
| \$ 6 Phenol-d5                | 99  | 4.181     | 4.199         | -0.018        | 87 | 183936   | 20.0          | 18.2            |       |
| 7 Phenol                      | 94  | 4.199     | 4.210         | -0.011        | 98 | 212313   | 20.0          | 19.7            |       |
| 8 Aniline                     | 93  | 4.204     | 4.216         | -0.012        | 93 | 227251   | 20.0          | 19.2            |       |
| 9 Bis(2-chloroethyl)ether     | 93  | 4.263     | 4.269         | -0.006        | 95 | 158273   | 20.0          | 19.2            |       |
| 10 Benzonitrile               | 103 | 4.287     | 4.304         | -0.017        | 0  | 286126   | NC            | NC              |       |
| 11 2-Chlorophenol             | 128 | 4.328     | 4.340         | -0.012        | 93 | 160940   | 20.0          | 20.0            |       |
| 12 n-Decane                   | 43  | 4.357     | 4.357         | 0.000         | 89 | 214871   | 20.0          | 21.1            |       |
| 13 1,3-Dichlorobenzene        | 146 | 4.475     | 4.475         | 0.000         | 94 | 184900   | 20.0          | 20.0            |       |
| * 14 1,4-Dichlorobenzene-d4   | 152 | 4.528     | 4.528         | 0.000         | 98 | 237177   | 40.0          | 40.0            |       |
| 15 1,4-Dichlorobenzene        | 146 | 4.546     | 4.546         | 0.000         | 94 | 188851   | 20.0          | 20.1            |       |
| 16 Benzyl alcohol             | 108 | 4.675     | 4.687         | -0.012        | 92 | 61284    | 20.0          | 16.8            |       |
| 17 1,2-Dichlorobenzene        | 146 | 4.699     | 4.704         | -0.005        | 94 | 173467   | 20.0          | 20.0            |       |
| 19 2,2'-oxybis[1-chloropropan | 45  | 4.799     | 4.804         | -0.005        | 94 | 228225   | 20.0          | 20.2            |       |
| 18 2-Methylphenol             | 108 | 4.793     | 4.804         | -0.011        | 87 | 142306   | 20.0          | 20.0            |       |
| 20 N-Methylaniline            | 106 | 4.928     | 4.934         | -0.006        | 0  | 225202   | NC            | NC              |       |
| 22 Acetophenone               | 105 | 4.934     | 4.946         | -0.012        | 91 | 194056   | 20.0          | 19.2            |       |
| 21 N-Nitrosodi-n-propylamine  | 70  | 4.934     | 4.951         | -0.017        | 76 | 100998   | 20.0          | 19.1            |       |
| 23 3 & 4 Methylphenol         | 108 | 4.951     | 4.969         | -0.018        | 96 | 146084   | 20.0          | 20.3            |       |
| 24 4-Methylphenol             | 108 | 4.951     | 4.969         | -0.018        | 95 | 146084   | 20.0          | 20.3            |       |
| 25 Hexachloroethane           | 117 | 5.040     | 5.040         | 0.000         | 95 | 70598    | 20.0          | 20.1            |       |
| \$ 26 Nitrobenzene-d5         | 82  | 5.087     | 5.098         | -0.011        | 90 | 157850   | 20.0          | 19.3            |       |
| 28 n,n'-Dimethylaniline       | 120 | 5.104     | 5.116         | -0.012        | 93 | 203559   | 20.0          | 19.7            |       |
| 27 Nitrobenzene               | 77  | 5.110     | 5.122         | -0.012        | 90 | 220781   | 20.0          | 20.6            |       |
| 31 Isophorone                 | 82  | 5.346     | 5.363         | -0.017        | 99 | 246913   | 20.0          | 19.6            |       |
| 32 2-Nitrophenol              | 139 | 5.428     | 5.434         | -0.006        | 89 | 75449    | 20.0          | 19.9            |       |



| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|---------------|-----------------|-------|
| 33 2,4-Dimethylphenol         | 122 | 5.481     | 5.493         | -0.012        | 89  | 119666   | 20.0          | 20.2            |       |
| 34 Bis(2-chloroethoxy)methane | 93  | 5.563     | 5.569         | -0.006        | 98  | 155725   | 20.0          | 19.9            |       |
| 35 Benzoic acid               | 122 | 5.598     | 5.651         | -0.053        | 91  | 42054    | 20.0          | 19.4            |       |
| 36 2,4-Dichlorophenol         | 162 | 5.681     | 5.687         | -0.006        | 95  | 112487   | 20.0          | 20.3            |       |
| 37 1,2,4-Trichlorobenzene     | 180 | 5.751     | 5.757         | -0.006        | 94  | 133342   | 20.0          | 20.1            |       |
| * 38 Naphthalene-d8           | 136 | 5.810     | 5.816         | -0.006        | 100 | 768889   | 40.0          | 40.0            |       |
| 39 Naphthalene                | 128 | 5.834     | 5.840         | -0.006        | 99  | 405171   | 20.0          | 20.0            |       |
| 40 4-Chloroaniline            | 127 | 5.893     | 5.904         | -0.011        | 95  | 146885   | 20.0          | 19.4            |       |
| 41 Hexachlorobutadiene        | 225 | 5.957     | 5.963         | -0.006        | 95  | 79466    | 20.0          | 20.2            |       |
| 43 4-Chloro-3-methylphenol    | 107 | 6.393     | 6.398         | -0.005        | 96  | 107581   | 20.0          | 19.8            |       |
| 44 2-Methylnaphthalene        | 142 | 6.528     | 6.528         | 0.000         | 85  | 262020   | 20.0          | 20.0            |       |
| 45 1-Methylnaphthalene        | 142 | 6.622     | 6.628         | -0.006        | 92  | 221247   | 20.0          | 19.7            |       |
| 46 Hexachlorocyclopentadiene  | 237 | 6.687     | 6.693         | -0.005        | 95  | 32996    | 20.0          | 14.3            |       |
| 47 1,2,4,5-Tetrachlorobenzene | 216 | 6.693     | 6.698         | -0.005        | 96  | 115119   | 20.0          | 20.0            |       |
| 48 2-tertbutyl-4-methylphenol | 149 | 6.734     | 6.740         | -0.006        | 90  | 161511   | 20.0          | 19.7            |       |
| 49 2,4,6-Trichlorophenol      | 196 | 6.816     | 6.822         | -0.006        | 89  | 68417    | 20.0          | 20.0            |       |
| 50 2,4,5-Trichlorophenol      | 196 | 6.857     | 6.863         | -0.006        | 97  | 74287    | 20.0          | 20.8            |       |
| \$ 51 2-Fluorobiphenyl        | 172 | 6.893     | 6.898         | -0.006        | 98  | 252626   | 20.0          | 19.0            |       |
| 52 1,1'-Biphenyl              | 154 | 6.993     | 6.998         | -0.006        | 95  | 285962   | 20.0          | 19.9            |       |
| 53 2-Chloronaphthalene        | 162 | 7.010     | 7.022         | -0.012        | 96  | 217673   | 20.0          | 20.3            |       |
| 54 Phenyl ether               | 170 | 7.098     | 7.098         | 0.000         | 87  | 150858   | 20.0          | 20.1            |       |
| 55 2-Nitroaniline             | 65  | 7.128     | 7.134         | -0.006        | 96  | 69690    | 20.0          | 20.9            |       |
| 57 1,3-Dimethylnaphthalene    | 156 | 7.228     | 7.234         | -0.006        | 91  | 181591   | 20.0          | 20.5            |       |
| 58 Dimethyl phthalate         | 163 | 7.298     | 7.316         | -0.018        | 99  | 217781   | 20.0          | 20.4            |       |
| 59 Coumarin                   | 146 | 7.328     | 7.340         | -0.012        | 78  | 69356    | 20.0          | 20.5            |       |
| 60 2,6-Dinitrotoluene         | 165 | 7.357     | 7.369         | -0.012        | 96  | 51041    | 20.0          | 20.7            |       |
| 63 Acenaphthylene             | 152 | 7.428     | 7.434         | -0.006        | 98  | 311278   | 20.0          | 19.8            |       |
| 64 3-Nitroaniline             | 138 | 7.534     | 7.545         | -0.011        | 92  | 51138    | 20.0          | 20.3            |       |
| * 65 Acenaphthene-d10         | 164 | 7.569     | 7.575         | -0.006        | 93  | 353689   | 40.0          | 40.0            |       |
| 66 3,5-di-tert-butyl-4-hydrox | 205 | 7.581     | 7.587         | -0.006        | 98  | 181239   | 20.0          | 18.4            |       |
| 67 Acenaphthene               | 154 | 7.598     | 7.604         | -0.006        | 94  | 201992   | 20.0          | 20.2            |       |
| 68 2,4-Dinitrophenol          | 184 | 7.634     | 7.645         | -0.011        | 96  | 56945    | 40.0          | 40.3            |       |
| 69 4-Nitrophenol              | 65  | 7.722     | 7.739         | -0.017        | 94  | 68043    | 40.0          | 39.4            |       |
| 70 2,4-Dinitrotoluene         | 165 | 7.757     | 7.769         | -0.012        | 94  | 63477    | 20.0          | 20.6            |       |
| 71 Dibenzofuran               | 168 | 7.769     | 7.775         | -0.006        | 95  | 289515   | 20.0          | 20.4            |       |
| 72 2,3,4,6-Tetrachlorophenol  | 232 | 7.898     | 7.904         | -0.006        | 94  | 52248    | 20.0          | 20.2            |       |
| 73 Diethyl phthalate          | 149 | 7.992     | 8.004         | -0.012        | 98  | 205475   | 20.0          | 20.6            |       |
| 75 4-Chlorophenyl phenyl ethe | 204 | 8.104     | 8.110         | -0.006        | 86  | 110218   | 20.0          | 20.3            |       |
| 74 Fluorene                   | 166 | 8.110     | 8.116         | -0.006        | 95  | 228262   | 20.0          | 20.5            |       |
| 76 4-Nitroaniline             | 138 | 8.145     | 8.169         | -0.024        | 91  | 43278    | 20.0          | 20.8            |       |
| 77 4,6-Dinitro-2-methylphenol | 198 | 8.163     | 8.181         | -0.018        | 92  | 69632    | 40.0          | 39.5            |       |
| 78 N-Nitrosodiphenylamine     | 169 | 8.228     | 8.239         | -0.011        | 67  | 308351   | 40.0          | 39.7            |       |
| 79 1,2-Diphenylhydrazine      | 77  | 8.263     | 8.269         | -0.006        | 97  | 228930   | 20.0          | 19.9            |       |
| \$ 80 2,4,6-Tribromophenol    | 330 | 8.351     | 8.357         | -0.006        | 93  | 27102    | 20.0          | 18.5            |       |
| 81 4-Bromophenyl phenyl ether | 248 | 8.587     | 8.592         | -0.005        | 88  | 61009    | 20.0          | 19.3            |       |
| 82 Hexachlorobenzene          | 284 | 8.657     | 8.663         | -0.006        | 98  | 63122    | 20.0          | 19.9            |       |
| 84 Pentachlorophenol          | 266 | 8.857     | 8.863         | -0.006        | 93  | 57179    | 40.0          | 38.6            |       |
| 85 Pentachloronitrobenzene    | 237 | 8.869     | 8.875         | -0.006        | 89  | 26493    | 20.0          | 21.5            |       |
| 86 n-Octadecane               | 57  | 8.910     | 8.916         | -0.006        | 91  | 180699   | 20.0          | 19.4            |       |
| * 87 Phenanthrene-d10         | 188 | 9.039     | 9.045         | -0.006        | 99  | 507277   | 40.0          | 40.0            |       |
| 88 Phenanthrene               | 178 | 9.063     | 9.069         | -0.006        | 97  | 299229   | 20.0          | 20.3            |       |
| 89 Anthracene                 | 178 | 9.110     | 9.116         | -0.006        | 99  | 288538   | 20.0          | 19.9            |       |



| Compound                       | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|--------------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 90 Carbazole                   | 167 | 9.275        | 9.281            | -0.006           | 96  | 226281   | 20.0             | 20.1               |       |
| 91 Di-n-butyl phthalate        | 149 | 9.598        | 9.604            | -0.006           | 100 | 284526   | 20.0             | 20.5               |       |
| 92 Fluoranthene                | 202 | 10.233       | 10.239           | -0.006           | 98  | 245750   | 20.0             | 20.2               |       |
| 93 Benzdine                    | 184 | 10.369       | 10.375           | -0.006           | 99  | 65218    | 20.0             | 16.0               |       |
| 94 Pyrene                      | 202 | 10.469       | 10.475           | -0.006           | 98  | 249105   | 20.0             | 19.4               |       |
| 95 Bisphenol-A                 | 213 | 10.586       | 10.533           | 0.053            | 83  | 6981     | 20.0             | 3.15               |       |
| \$ 96 Terphenyl-d14            | 244 | 10.622       | 10.628           | -0.006           | 99  | 168862   | 20.0             | 18.6               |       |
| 97 Butyl benzyl phthalate      | 149 | 11.157       | 11.169           | -0.012           | 98  | 92413    | 20.0             | 20.1               |       |
| 99 Carbamazepine               | 193 | 11.298       | 11.310           | -0.012           | 92  | 54409    | 20.0             | 18.3               |       |
| 100 3,3'-Dichlorobenzidine     | 252 | 11.816       | 11.822           | -0.006           | 99  | 52021    | 20.0             | 19.4               |       |
| 101 Benzo[a]anthracene         | 228 | 11.839       | 11.845           | -0.006           | 97  | 164011   | 20.0             | 19.2               |       |
| * 102 Chrysene-d12             | 240 | 11.857       | 11.863           | -0.006           | 99  | 285774   | 40.0             | 40.0               |       |
| 104 Bis(2-ethylhexyl) phthalat | 149 | 11.863       | 11.869           | -0.006           | 90  | 123665   | 20.0             | 20.0               |       |
| 103 Chrysene                   | 228 | 11.886       | 11.898           | -0.012           | 98  | 151264   | 20.0             | 19.7               |       |
| 105 Di-n-octyl phthalate       | 149 | 12.733       | 12.745           | -0.012           | 98  | 163950   | 20.0             | 20.7               |       |
| 106 Benzo[b]fluoranthene       | 252 | 13.280       | 13.292           | -0.012           | 98  | 122308   | 20.0             | 20.3               |       |
| 107 Benzo[k]fluoranthene       | 252 | 13.316       | 13.327           | -0.011           | 99  | 128126   | 20.0             | 21.2               |       |
| 108 Benzo[a]pyrene             | 252 | 13.733       | 13.745           | -0.012           | 97  | 111543   | 20.0             | 21.0               |       |
| * 109 Perylene-d12             | 264 | 13.816       | 13.821           | -0.005           | 98  | 187546   | 40.0             | 40.0               |       |
| 110 Indeno[1,2,3-cd]pyrene     | 276 | 15.404       | 15.421           | -0.017           | 99  | 88935    | 20.0             | 20.4               |       |
| 111 Dibenz(a,h)anthracene      | 278 | 15.445       | 15.457           | -0.012           | 96  | 89369    | 20.0             | 21.1               |       |
| 112 Benzo[g,h,i]perylene       | 276 | 15.857       | 15.874           | -0.017           | 98  | 92724    | 20.0             | 19.9               |       |
| S 119 Total Cresols            | 1   |              |                  |                  | 0   |          |                  | 40.3               |       |

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

**Reagents:**

SV\_IC\_BNA\_L5\_00010

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160309-38213.b\\z41463.D

Injection Date: 09-Mar-2016 09:52:30

Instrument ID: CBNAMS11

Operator ID:

Lims ID: std20

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

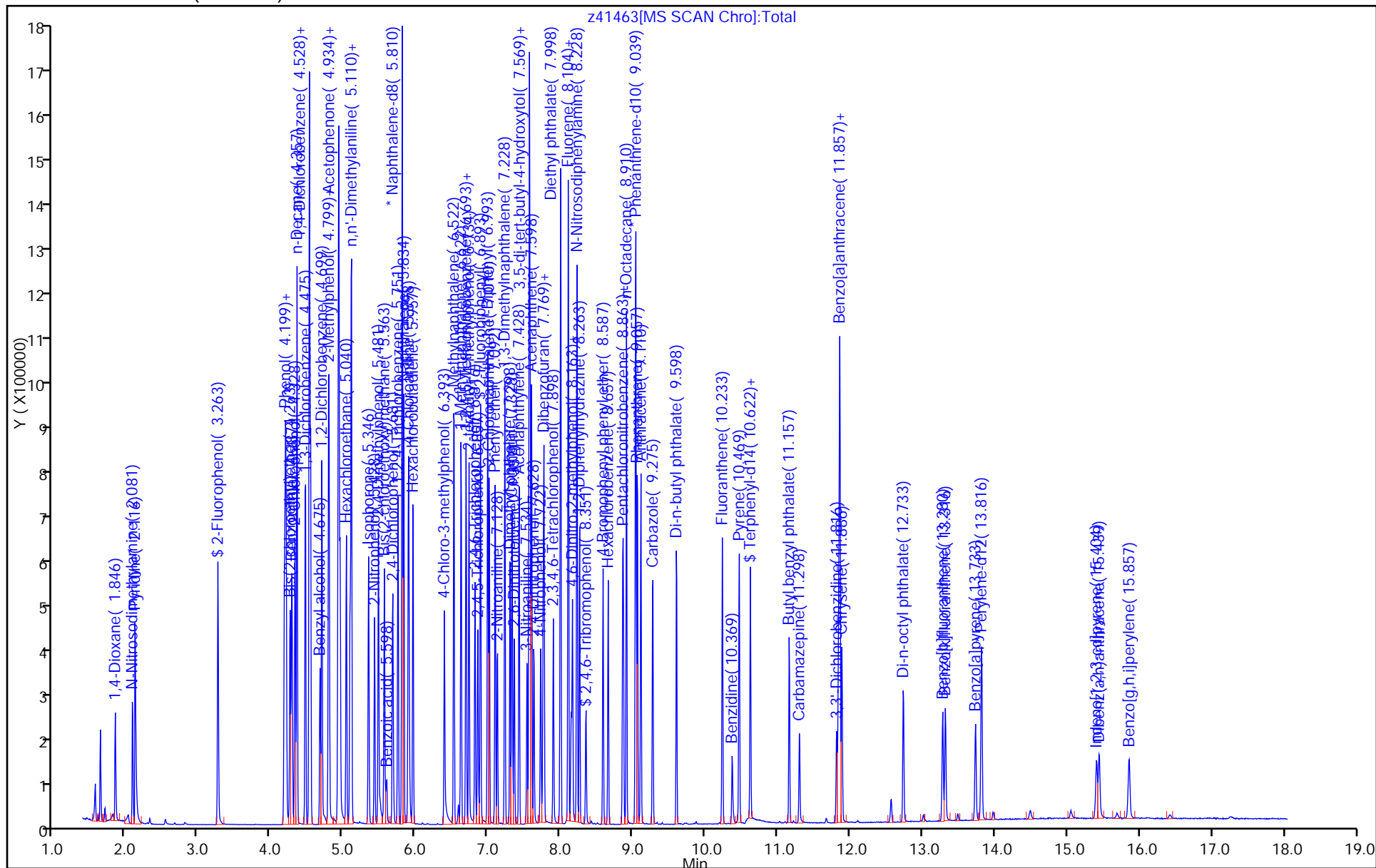
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8270\_11R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41464.D  
 Lims ID: std10  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 09-Mar-2016 10:16:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038213-006  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Sublist: chrom-8270\_11R\_9\*sub18  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 16-Mar-2016 09:04:10 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK034

First Level Reviewer: szczecha

Date: 16-Mar-2016 09:04:10

| Compound                      | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-------------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| 1 1,4-Dioxane                 | 88  | 1.846        | 1.852            | -0.006           | 97 | 45411    | 10.0             | 9.91               |       |
| 2 N-Nitrosodimethylamine      | 74  | 2.087        | 2.099            | -0.012           | 89 | 63333    | 10.0             | 10.0               |       |
| 3 Pyridine                    | 79  | 2.122        | 2.128            | -0.006           | 86 | 103999   | 10.0             | 9.43               |       |
| \$ 4 2-Fluorophenol           | 112 | 3.263        | 3.269            | -0.006           | 95 | 101294   | 10.0             | 9.76               |       |
| \$ 6 Phenol-d5                | 99  | 4.181        | 4.199            | -0.018           | 89 | 122631   | 10.0             | 9.87               |       |
| 7 Phenol                      | 94  | 4.193        | 4.210            | -0.017           | 97 | 131207   | 10.0             | 9.90               |       |
| 8 Aniline                     | 93  | 4.204        | 4.216            | -0.012           | 97 | 143598   | 10.0             | 9.85               |       |
| 9 Bis(2-chloroethyl)ether     | 93  | 4.257        | 4.269            | -0.012           | 95 | 98111    | 10.0             | 9.69               |       |
| 10 Benzonitrile               | 103 | 4.281        | 4.304            | -0.023           | 0  | 175344   | NC               | NC                 |       |
| 11 2-Chlorophenol             | 128 | 4.328        | 4.340            | -0.012           | 93 | 99032    | 10.0             | 10.0               |       |
| 12 n-Decane                   | 43  | 4.357        | 4.357            | 0.000            | 90 | 134053   | 10.0             | 10.7               |       |
| 13 1,3-Dichlorobenzene        | 146 | 4.475        | 4.475            | 0.000            | 94 | 115810   | 10.0             | 10.2               |       |
| * 14 1,4-Dichlorobenzene-d4   | 152 | 4.528        | 4.528            | 0.000            | 98 | 292128   | 40.0             | 40.0               |       |
| 15 1,4-Dichlorobenzene        | 146 | 4.545        | 4.546            | -0.001           | 96 | 117304   | 10.0             | 10.1               |       |
| 16 Benzyl alcohol             | 108 | 4.675        | 4.687            | -0.012           | 91 | 41914    | 10.0             | 10.5               |       |
| 17 1,2-Dichlorobenzene        | 146 | 4.698        | 4.704            | -0.006           | 94 | 107789   | 10.0             | 10.1               |       |
| 19 2,2'-oxybis[1-chloropropan | 45  | 4.798        | 4.804            | -0.006           | 94 | 147762   | 10.0             | 10.6               |       |
| 18 2-Methylphenol             | 108 | 4.792        | 4.804            | -0.012           | 88 | 85325    | 10.0             | 9.74               |       |
| 20 N-Methylaniline            | 106 | 4.922        | 4.934            | -0.012           | 0  | 137812   | NC               | NC                 |       |
| 22 Acetophenone               | 105 | 4.934        | 4.946            | -0.012           | 93 | 123684   | 10.0             | 9.94               |       |
| 21 N-Nitrosodi-n-propylamine  | 70  | 4.934        | 4.951            | -0.017           | 78 | 64612    | 10.0             | 9.91               |       |
| 23 3 & 4 Methylphenol         | 108 | 4.951        | 4.969            | -0.018           | 98 | 88979    | 10.0             | 10.0               |       |
| 24 4-Methylphenol             | 108 | 4.951        | 4.969            | -0.018           | 95 | 88979    | 10.0             | 10.0               |       |
| 25 Hexachloroethane           | 117 | 5.040        | 5.040            | 0.000            | 94 | 43458    | 10.0             | 10.1               |       |
| \$ 26 Nitrobenzene-d5         | 82  | 5.087        | 5.098            | -0.011           | 90 | 104161   | 10.0             | 10.1               |       |
| 28 n,n'-Dimethylaniline       | 120 | 5.104        | 5.116            | -0.012           | 93 | 126965   | 10.0             | 9.97               |       |
| 27 Nitrobenzene               | 77  | 5.104        | 5.122            | -0.018           | 91 | 135062   | 10.0             | 10.0               |       |
| 31 Isophorone                 | 82  | 5.345        | 5.363            | -0.018           | 99 | 157528   | 10.0             | 9.94               |       |
| 32 2-Nitrophenol              | 139 | 5.428        | 5.434            | -0.006           | 87 | 46385    | 10.0             | 9.71               |       |
| 33 2,4-Dimethylphenol         | 122 | 5.481        | 5.493            | -0.012           | 89 | 68844    | 10.0             | 9.21               |       |

| 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  | 5.563     | 5.569         | -0.006        | 98  | 96854    | 10.0          | 9.79            |       |
| 35 Benzoic acid               | 122 | 5.575     | 5.651         | -0.076        | 88  | 13921    | 10.0          | 8.93            |       |
| 36 2,4-Dichlorophenol         | 162 | 5.681     | 5.687         | -0.006        | 96  | 70626    | 10.0          | 10.1            |       |
| 37 1,2,4-Trichlorobenzene     | 180 | 5.751     | 5.757         | -0.006        | 95  | 83254    | 10.0          | 9.95            |       |
| * 38 Naphthalene-d8           | 136 | 5.810     | 5.816         | -0.006        | 100 | 969465   | 40.0          | 40.0            |       |
| 39 Naphthalene                | 128 | 5.834     | 5.840         | -0.006        | 99  | 252839   | 10.0          | 9.90            |       |
| 40 4-Chloroaniline            | 127 | 5.892     | 5.904         | -0.012        | 95  | 93002    | 10.0          | 9.76            |       |
| 41 Hexachlorobutadiene        | 225 | 5.957     | 5.963         | -0.006        | 94  | 49477    | 10.0          | 9.99            |       |
| 43 4-Chloro-3-methylphenol    | 107 | 6.392     | 6.398         | -0.006        | 96  | 67981    | 10.0          | 9.93            |       |
| 44 2-Methylnaphthalene        | 142 | 6.522     | 6.528         | -0.006        | 85  | 165836   | 10.0          | 10.1            |       |
| 45 1-Methylnaphthalene        | 142 | 6.622     | 6.628         | -0.006        | 93  | 140728   | 10.0          | 9.95            |       |
| 46 Hexachlorocyclopentadiene  | 237 | 6.686     | 6.693         | -0.006        | 96  | 21585    | 10.0          | 7.43            |       |
| 47 1,2,4,5-Tetrachlorobenzene | 216 | 6.692     | 6.698         | -0.006        | 97  | 74611    | 10.0          | 9.98            |       |
| 48 2-tertbutyl-4-methylphenol | 149 | 6.734     | 6.740         | -0.006        | 91  | 99510    | 10.0          | 9.63            |       |
| 49 2,4,6-Trichlorophenol      | 196 | 6.816     | 6.822         | -0.006        | 90  | 43815    | 10.0          | 9.84            |       |
| 50 2,4,5-Trichlorophenol      | 196 | 6.857     | 6.863         | -0.006        | 96  | 45437    | 10.0          | 9.81            |       |
| \$ 51 2-Fluorobiphenyl        | 172 | 6.892     | 6.898         | -0.006        | 98  | 167268   | 10.0          | 9.69            |       |
| 52 1,1'-Biphenyl              | 154 | 6.992     | 6.998         | -0.006        | 95  | 184137   | 10.0          | 9.89            |       |
| 53 2-Chloronaphthalene        | 162 | 7.010     | 7.022         | -0.012        | 96  | 139337   | 10.0          | 9.98            |       |
| 54 Phenyl ether               | 170 | 7.092     | 7.098         | -0.006        | 86  | 95989    | 10.0          | 9.86            |       |
| 55 2-Nitroaniline             | 65  | 7.122     | 7.134         | -0.012        | 96  | 45046    | 10.0          | 10.4            |       |
| 57 1,3-Dimethylnaphthalene    | 156 | 7.228     | 7.234         | -0.006        | 91  | 117573   | 10.0          | 10.2            |       |
| 58 Dimethyl phthalate         | 163 | 7.298     | 7.316         | -0.018        | 99  | 145082   | 10.0          | 10.4            |       |
| 59 Coumarin                   | 146 | 7.322     | 7.340         | -0.018        | 78  | 45637    | 10.0          | 10.7            |       |
| 60 2,6-Dinitrotoluene         | 165 | 7.357     | 7.369         | -0.012        | 96  | 34074    | 10.0          | 10.6            |       |
| 63 Acenaphthylene             | 152 | 7.422     | 7.434         | -0.012        | 98  | 204412   | 10.0          | 10.0            |       |
| 64 3-Nitroaniline             | 138 | 7.533     | 7.545         | -0.012        | 92  | 34113    | 10.0          | 10.4            |       |
| * 65 Acenaphthene-d10         | 164 | 7.569     | 7.575         | -0.006        | 93  | 459343   | 40.0          | 40.0            |       |
| 66 3,5-di-tert-butyl-4-hydrox | 205 | 7.581     | 7.587         | -0.006        | 98  | 113688   | 10.0          | 8.89            |       |
| 67 Acenaphthene               | 154 | 7.598     | 7.604         | -0.006        | 94  | 132939   | 10.0          | 10.2            |       |
| 68 2,4-Dinitrophenol          | 184 | 7.628     | 7.645         | -0.017        | 96  | 33929    | 20.0          | 20.1            |       |
| 69 4-Nitrophenol              | 65  | 7.722     | 7.739         | -0.017        | 95  | 44443    | 20.0          | 19.8            |       |
| 70 2,4-Dinitrotoluene         | 165 | 7.757     | 7.769         | -0.012        | 95  | 44562    | 10.0          | 11.1            |       |
| 71 Dibenzofuran               | 168 | 7.769     | 7.775         | -0.006        | 95  | 188347   | 10.0          | 10.2            |       |
| 72 2,3,4,6-Tetrachlorophenol  | 232 | 7.898     | 7.904         | -0.006        | 93  | 34503    | 10.0          | 10.3            |       |
| 73 Diethyl phthalate          | 149 | 7.992     | 8.004         | -0.012        | 98  | 139613   | 10.0          | 10.8            |       |
| 75 4-Chlorophenyl phenyl ethe | 204 | 8.104     | 8.110         | -0.006        | 87  | 72237    | 10.0          | 10.2            |       |
| 74 Fluorene                   | 166 | 8.104     | 8.116         | -0.012        | 96  | 151204   | 10.0          | 10.5            |       |
| 76 4-Nitroaniline             | 138 | 8.139     | 8.169         | -0.030        | 92  | 29815    | 10.0          | 11.0            |       |
| 77 4,6-Dinitro-2-methylphenol | 198 | 8.163     | 8.181         | -0.018        | 86  | 45380    | 20.0          | 20.0            |       |
| 78 N-Nitrosodiphenylamine     | 169 | 8.222     | 8.239         | -0.017        | 67  | 209210   | 20.0          | 19.8            |       |
| 79 1,2-Diphenylhydrazine      | 77  | 8.263     | 8.269         | -0.006        | 97  | 150388   | 10.0          | 9.59            |       |
| \$ 80 2,4,6-Tribromophenol    | 330 | 8.351     | 8.357         | -0.006        | 94  | 19891    | 10.0          | 10.5            |       |
| 81 4-Bromophenyl phenyl ether | 248 | 8.586     | 8.592         | -0.006        | 89  | 41398    | 10.0          | 9.63            |       |
| 82 Hexachlorobenzene          | 284 | 8.657     | 8.663         | -0.006        | 97  | 41929    | 10.0          | 9.70            |       |
| 84 Pentachlorophenol          | 266 | 8.857     | 8.863         | -0.006        | 93  | 35064    | 20.0          | 19.5            |       |
| 85 Pentachloronitrobenzene    | 237 | 8.869     | 8.875         | -0.006        | 87  | 17608    | 10.0          | 10.5            |       |
| 86 n-Octadecane               | 57  | 8.910     | 8.916         | -0.006        | 90  | 119975   | 10.0          | 9.47            |       |
| * 87 Phenanthrene-d10         | 188 | 9.039     | 9.045         | -0.006        | 99  | 690335   | 40.0          | 40.0            |       |
| 88 Phenanthrene               | 178 | 9.057     | 9.069         | -0.012        | 97  | 203876   | 10.0          | 10.2            |       |
| 89 Anthracene                 | 178 | 9.110     | 9.116         | -0.006        | 99  | 198615   | 10.0          | 10.1            |       |
| 90 Carbazole                  | 167 | 9.269     | 9.281         | -0.012        | 96  | 156563   | 10.0          | 10.2            |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|--------------------------------|-----|-----------|---------------|---------------|-----|----------|---------------|-----------------|-------|
| 91 Di-n-butyl phthalate        | 149 | 9.598     | 9.604         | -0.006        | 100 | 192020   | 10.0          | 10.2            |       |
| 92 Fluoranthene                | 202 | 10.233    | 10.239        | -0.006        | 98  | 172146   | 10.0          | 10.4            |       |
| 93 Benzidine                   | 184 | 10.369    | 10.375        | -0.006        | 99  | 42001    | 10.0          | 7.59            |       |
| 94 Pyrene                      | 202 | 10.463    | 10.475        | -0.012        | 98  | 171112   | 10.0          | 10.4            |       |
| 95 Bisphenol-A                 | 213 | 10.616    | 10.533        | 0.083         | 50  | 9728     | 10.0          | 3.42            |       |
| \$ 96 Terphenyl-d14            | 244 | 10.622    | 10.628        | -0.006        | 99  | 117654   | 10.0          | 10.1            |       |
| 97 Butyl benzyl phthalate      | 149 | 11.157    | 11.169        | -0.012        | 99  | 60291    | 10.0          | 10.2            |       |
| 99 Carbamazepine               | 193 | 11.298    | 11.310        | -0.012        | 91  | 34607    | 10.0          | 9.06            |       |
| 100 3,3'-Dichlorobenzidine     | 252 | 11.816    | 11.822        | -0.006        | 99  | 31832    | 10.0          | 9.22            |       |
| 101 Benzo[a]anthracene         | 228 | 11.839    | 11.845        | -0.006        | 99  | 106846   | 10.0          | 9.75            |       |
| * 102 Chrysene-d12             | 240 | 11.857    | 11.863        | -0.006        | 100 | 367124   | 40.0          | 40.0            |       |
| 104 Bis(2-ethylhexyl) phthalat | 149 | 11.863    | 11.869        | -0.006        | 89  | 78341    | 10.0          | 9.88            |       |
| 103 Chrysene                   | 228 | 11.886    | 11.898        | -0.012        | 99  | 100224   | 10.0          | 10.2            |       |
| 105 Di-n-octyl phthalate       | 149 | 12.733    | 12.745        | -0.012        | 98  | 102797   | 10.0          | 10.2            |       |
| 106 Benzo[b]fluoranthene       | 252 | 13.280    | 13.292        | -0.012        | 99  | 77757    | 10.0          | 10.1            |       |
| 107 Benzo[k]fluoranthene       | 252 | 13.315    | 13.327        | -0.012        | 99  | 78349    | 10.0          | 10.2            |       |
| 108 Benzo[a]pyrene             | 252 | 13.733    | 13.745        | -0.012        | 97  | 66531    | 10.0          | 9.84            |       |
| * 109 Perylene-d12             | 264 | 13.815    | 13.821        | -0.006        | 99  | 239081   | 40.0          | 40.0            |       |
| 110 Indeno[1,2,3-cd]pyrene     | 276 | 15.404    | 15.421        | -0.017        | 99  | 50911    | 10.0          | 9.17            |       |
| 111 Dibenz(a,h)anthracene      | 278 | 15.439    | 15.457        | -0.018        | 97  | 51992    | 10.0          | 9.61            |       |
| 112 Benzo[g,h,i]perylene       | 276 | 15.851    | 15.874        | -0.023        | 97  | 51812    | 10.0          | 8.71            |       |
| S 119 Total Cresols            | 1   |           |               |               | 0   |          |               | 19.8            |       |

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

**Reagents:**

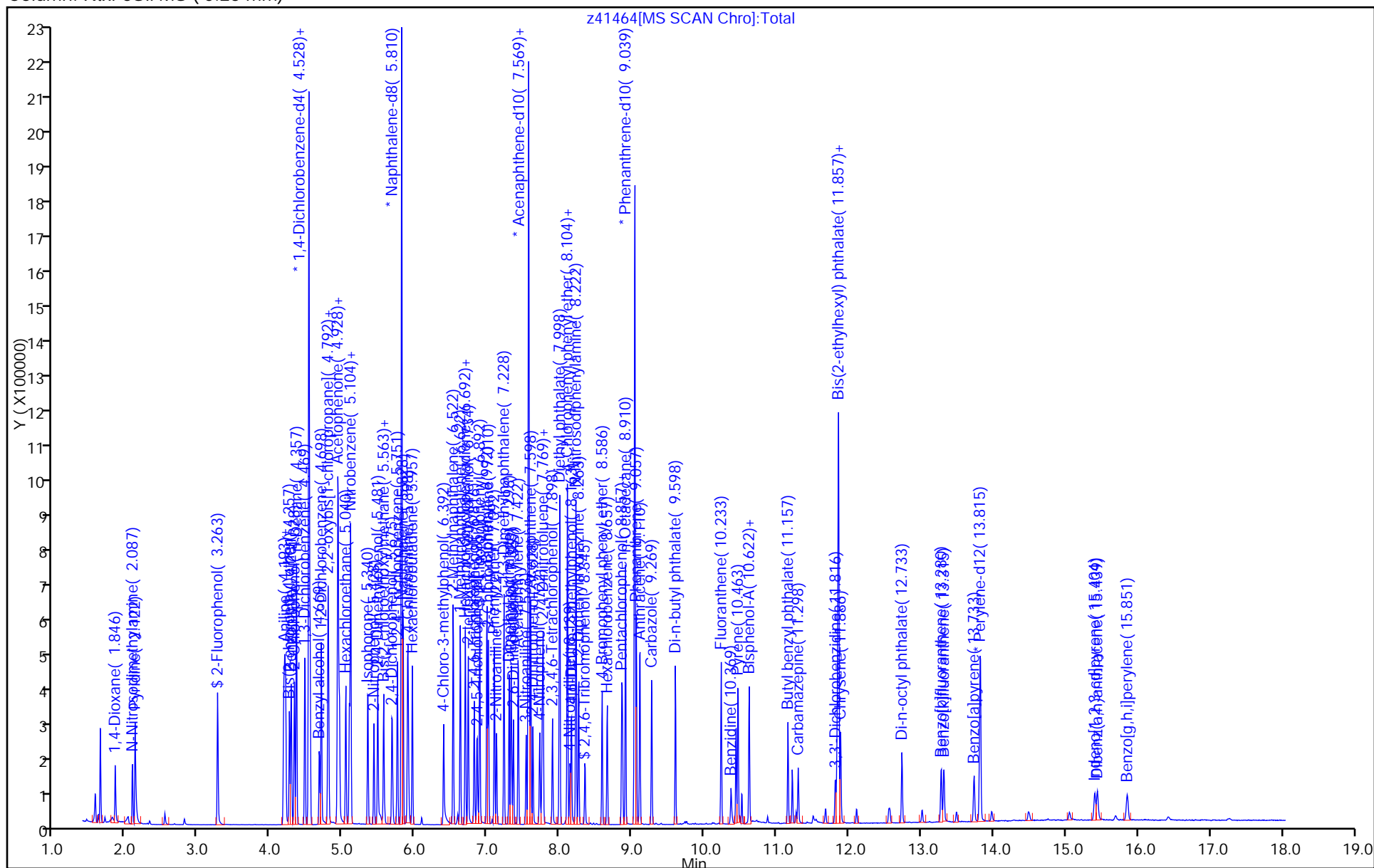
SV\_IC\_BNA\_L4\_00010

Amount Added: 1.00

Units: mL

|                 |  |                |               |
|-----------------|--|----------------|---------------|
| Data File:      | \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160309-38213.b\\z41464.D |                |               |
| Injection Date: | 09-Mar-2016 10:16:30   | Instrument ID: | CBNAMS11      |
| Lims ID:        | std10  |                |               |
| Client ID:      |  |                |               |
| Injection Vol:  | 1.0 ul   | Dil. Factor:   | 1.0000        |
| Method:         | 8270_11R_9   | Limit Group:   | SV 8270D ICAL |
| Column:         | Rtxi-5Sil MS ( 0.25 mm)  |                |               |

ALS Bottle#: 6



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41465.D  
 Lims ID: std5  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 09-Mar-2016 10:40:30 ALS Bottle#: 7 Worklist Smp#: 7  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038213-007  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Sublist: chrom-8270\_11R\_9\*sub18  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 16-Mar-2016 09:04:23 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK034

First Level Reviewer: szczech

Date: 09-Mar-2016 15:39:12

| Compound                      | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-------------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| 1 1,4-Dioxane                 | 88  | 1.852        | 1.852            | 0.000            | 97 | 18234    | 5.00             | 4.96               |       |
| 2 N-Nitrosodimethylamine      | 74  | 2.093        | 2.099            | -0.006           | 87 | 23716    | 5.00             | 4.67               |       |
| 3 Pyridine                    | 79  | 2.128        | 2.128            | 0.000            | 86 | 44000    | 5.00             | 4.97               |       |
| \$ 4 2-Fluorophenol           | 112 | 3.263        | 3.269            | -0.006           | 91 | 39501    | 5.00             | 4.75               |       |
| \$ 6 Phenol-d5                | 99  | 4.175        | 4.199            | -0.024           | 86 | 48602    | 5.00             | 4.87               |       |
| 7 Phenol                      | 94  | 4.187        | 4.210            | -0.023           | 98 | 50420    | 5.00             | 4.74               |       |
| 8 Aniline                     | 93  | 4.204        | 4.216            | -0.012           | 99 | 54539    | 5.00             | 4.66               |       |
| 9 Bis(2-chloroethyl)ether     | 93  | 4.257        | 4.269            | -0.012           | 96 | 37280    | 5.00             | 4.59               |       |
| 10 Benzonitrile               | 103 | 4.281        | 4.304            | -0.023           | 0  | 67784    | NC               | NC                 |       |
| 11 2-Chlorophenol             | 128 | 4.328        | 4.340            | -0.012           | 93 | 38413    | 5.00             | 4.84               |       |
| 12 n-Decane                   | 43  | 4.357        | 4.357            | 0.000            | 90 | 52331    | 5.00             | 5.19               |       |
| 13 1,3-Dichlorobenzene        | 146 | 4.469        | 4.475            | -0.006           | 94 | 44567    | 5.00             | 4.88               |       |
| * 14 1,4-Dichlorobenzene-d4   | 152 | 4.528        | 4.528            | 0.000            | 98 | 234379   | 40.0             | 40.0               |       |
| 15 1,4-Dichlorobenzene        | 146 | 4.546        | 4.546            | 0.000            | 77 | 45979    | 5.00             | 4.95               |       |
| 16 Benzyl alcohol             | 108 | 4.669        | 4.687            | -0.018           | 91 | 13640    | 5.00             | 5.80               |       |
| 17 1,2-Dichlorobenzene        | 146 | 4.699        | 4.704            | -0.005           | 94 | 42306    | 5.00             | 4.94               |       |
| 19 2,2'-oxybis[1-chloropropan | 45  | 4.799        | 4.804            | -0.005           | 94 | 57269    | 5.00             | 5.12               |       |
| 18 2-Methylphenol             | 108 | 4.787        | 4.804            | -0.017           | 83 | 32156    | 5.00             | 4.57               |       |
| 20 N-Methylaniline            | 106 | 4.922        | 4.934            | -0.012           | 0  | 54820    | NC               | NC                 |       |
| 22 Acetophenone               | 105 | 4.928        | 4.946            | -0.018           | 93 | 48213    | 5.00             | 4.83               |       |
| 21 N-Nitrosodi-n-propylamine  | 70  | 4.928        | 4.951            | -0.023           | 76 | 24099    | 5.00             | 4.61               |       |
| 23 3 & 4 Methylphenol         | 108 | 4.946        | 4.969            | -0.023           | 95 | 33674    | 5.00             | 4.74               |       |
| 24 4-Methylphenol             | 108 | 4.946        | 4.969            | -0.023           | 94 | 33674    | 5.00             | 4.74               |       |
| 25 Hexachloroethane           | 117 | 5.040        | 5.040            | 0.000            | 92 | 16579    | 5.00             | 4.78               |       |
| \$ 26 Nitrobenzene-d5         | 82  | 5.087        | 5.098            | -0.011           | 89 | 41071    | 5.00             | 5.03               |       |
| 28 n,n'-Dimethylaniline       | 120 | 5.104        | 5.116            | -0.012           | 95 | 52100    | 5.00             | 5.10               |       |
| 27 Nitrobenzene               | 77  | 5.104        | 5.122            | -0.018           | 91 | 53481    | 5.00             | 5.00               |       |
| 31 Isophorone                 | 82  | 5.340        | 5.363            | -0.023           | 99 | 60247    | 5.00             | 4.80               |       |
| 32 2-Nitrophenol              | 139 | 5.428        | 5.434            | -0.006           | 89 | 17349    | 5.00             | 4.58               |       |
| 33 2,4-Dimethylphenol         | 122 | 5.481        | 5.493            | -0.012           | 89 | 28155    | 5.00             | 4.75               |       |



| 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  | 5.563     | 5.569         | -0.006        | 97  | 37793    | 5.00          | 4.83            | M     |
| 35 Benzoic acid               | 122 | 5.540     | 5.651         | -0.111        | 1   | 3970     | 5.00          | 6.52            |       |
| 36 2,4-Dichlorophenol         | 162 | 5.675     | 5.687         | -0.012        | 95  | 26683    | 5.00          | 4.82            |       |
| 37 1,2,4-Trichlorobenzene     | 180 | 5.751     | 5.757         | -0.006        | 95  | 31714    | 5.00          | 4.79            |       |
| * 38 Naphthalene-d8           | 136 | 5.810     | 5.816         | -0.006        | 100 | 767688   | 40.0          | 40.0            |       |
| 39 Naphthalene                | 128 | 5.828     | 5.840         | -0.012        | 99  | 100476   | 5.00          | 4.97            |       |
| 40 4-Chloroaniline            | 127 | 5.893     | 5.904         | -0.011        | 96  | 38146    | 5.00          | 5.05            |       |
| 41 Hexachlorobutadiene        | 225 | 5.957     | 5.963         | -0.006        | 95  | 19901    | 5.00          | 5.07            |       |
| 43 4-Chloro-3-methylphenol    | 107 | 6.393     | 6.398         | -0.005        | 96  | 24211    | 5.00          | 4.47            |       |
| 44 2-Methylnaphthalene        | 142 | 6.522     | 6.528         | -0.006        | 84  | 63101    | 5.00          | 4.83            |       |
| 45 1-Methylnaphthalene        | 142 | 6.622     | 6.628         | -0.006        | 93  | 55240    | 5.00          | 4.93            |       |
| 46 Hexachlorocyclopentadiene  | 237 | 6.687     | 6.693         | -0.005        | 95  | 13199    | 5.00          | 5.76            |       |
| 47 1,2,4,5-Tetrachlorobenzene | 216 | 6.693     | 6.698         | -0.005        | 96  | 29210    | 5.00          | 4.91            |       |
| 48 2-tertbutyl-4-methylphenol | 149 | 6.734     | 6.740         | -0.006        | 90  | 37284    | 5.00          | 4.56            |       |
| 49 2,4,6-Trichlorophenol      | 196 | 6.816     | 6.822         | -0.006        | 87  | 15957    | 5.00          | 4.51            |       |
| 50 2,4,5-Trichlorophenol      | 196 | 6.851     | 6.863         | -0.012        | 94  | 15083    | 5.00          | 4.09            |       |
| \$ 51 2-Fluorobiphenyl        | 172 | 6.893     | 6.898         | -0.006        | 97  | 67908    | 5.00          | 4.94            |       |
| 52 1,1'-Biphenyl              | 154 | 6.987     | 6.998         | -0.011        | 95  | 71160    | 5.00          | 4.80            |       |
| 53 2-Chloronaphthalene        | 162 | 7.010     | 7.022         | -0.012        | 97  | 53755    | 5.00          | 4.84            |       |
| 54 Phenyl ether               | 170 | 7.093     | 7.098         | -0.006        | 87  | 37323    | 5.00          | 4.82            |       |
| 55 2-Nitroaniline             | 65  | 7.122     | 7.134         | -0.012        | 97  | 15428    | 5.00          | 4.48            |       |
| 57 1,3-Dimethylnaphthalene    | 156 | 7.228     | 7.234         | -0.006        | 91  | 45590    | 5.00          | 4.98            |       |
| 58 Dimethyl phthalate         | 163 | 7.292     | 7.316         | -0.024        | 99  | 54961    | 5.00          | 4.98            |       |
| 59 Coumarin                   | 146 | 7.322     | 7.340         | -0.018        | 76  | 16909    | 5.00          | 5.02            |       |
| 60 2,6-Dinitrotoluene         | 165 | 7.357     | 7.369         | -0.012        | 95  | 12831    | 5.00          | 5.02            |       |
| 63 Acenaphthylene             | 152 | 7.422     | 7.434         | -0.012        | 98  | 79697    | 5.00          | 4.92            |       |
| 64 3-Nitroaniline             | 138 | 7.534     | 7.545         | -0.011        | 92  | 12584    | 5.00          | 4.83            |       |
| * 65 Acenaphthene-d10         | 164 | 7.569     | 7.575         | -0.006        | 93  | 365475   | 40.0          | 40.0            |       |
| 66 3,5-di-tert-butyl-4-hydrox | 205 | 7.581     | 7.587         | -0.006        | 97  | 48497    | 5.00          | 4.76            |       |
| 67 Acenaphthene               | 154 | 7.598     | 7.604         | -0.006        | 94  | 51201    | 5.00          | 4.96            |       |
| 68 2,4-Dinitrophenol          | 184 | 7.628     | 7.645         | -0.017        | 95  | 9981     | 10.0          | 9.16            |       |
| 69 4-Nitrophenol              | 65  | 7.716     | 7.739         | -0.023        | 93  | 14235    | 10.0          | 7.99            |       |
| 70 2,4-Dinitrotoluene         | 165 | 7.757     | 7.769         | -0.012        | 95  | 16416    | 5.00          | 5.16            |       |
| 71 Dibenzofuran               | 168 | 7.769     | 7.775         | -0.006        | 96  | 74785    | 5.00          | 5.10            |       |
| 72 2,3,4,6-Tetrachlorophenol  | 232 | 7.898     | 7.904         | -0.006        | 93  | 12302    | 5.00          | 4.59            |       |
| 73 Diethyl phthalate          | 149 | 7.992     | 8.004         | -0.012        | 98  | 52575    | 5.00          | 5.11            |       |
| 75 4-Chlorophenyl phenyl ethe | 204 | 8.104     | 8.110         | -0.006        | 89  | 28180    | 5.00          | 5.02            |       |
| 74 Fluorene                   | 166 | 8.104     | 8.116         | -0.012        | 96  | 58418    | 5.00          | 5.07            |       |
| 76 4-Nitroaniline             | 138 | 8.134     | 8.169         | -0.035        | 93  | 10523    | 5.00          | 4.89            |       |
| 77 4,6-Dinitro-2-methylphenol | 198 | 8.157     | 8.181         | -0.024        | 87  | 14444    | 10.0          | 9.06            |       |
| 78 N-Nitrosodiphenylamine     | 169 | 8.222     | 8.239         | -0.017        | 68  | 80084    | 10.0          | 9.31            |       |
| 79 1,2-Diphenylhydrazine      | 77  | 8.257     | 8.269         | -0.012        | 97  | 56720    | 5.00          | 4.44            |       |
| \$ 80 2,4,6-Tribromophenol    | 330 | 8.345     | 8.357         | -0.012        | 95  | 7987     | 5.00          | 5.29            |       |
| 81 4-Bromophenyl phenyl ether | 248 | 8.587     | 8.592         | -0.005        | 91  | 16749    | 5.00          | 4.78            |       |
| 82 Hexachlorobenzene          | 284 | 8.657     | 8.663         | -0.006        | 98  | 15853    | 5.00          | 4.50            |       |
| 84 Pentachlorophenol          | 266 | 8.857     | 8.863         | -0.006        | 92  | 10818    | 10.0          | 9.45            |       |
| 85 Pentachloronitrobenzene    | 237 | 8.863     | 8.875         | -0.012        | 86  | 6269     | 5.00          | 4.59            |       |
| 86 n-Octadecane               | 57  | 8.910     | 8.916         | -0.006        | 91  | 43700    | 5.00          | 4.23            |       |
| * 87 Phenanthrene-d10         | 188 | 9.034     | 9.045         | -0.011        | 99  | 562496   | 40.0          | 40.0            |       |
| 88 Phenanthrene               | 178 | 9.057     | 9.069         | -0.012        | 97  | 80305    | 5.00          | 4.92            |       |
| 89 Anthracene                 | 178 | 9.104     | 9.116         | -0.012        | 99  | 77471    | 5.00          | 4.82            |       |
| 90 Carbazole                  | 167 | 9.269     | 9.281         | -0.012        | 96  | 62776    | 5.00          | 5.03            |       |



| Compound                       | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|--------------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 91 Di-n-butyl phthalate        | 149 | 9.598        | 9.604            | -0.006           | 100 | 72933    | 5.00             | 4.73               |       |
| 92 Fluoranthene                | 202 | 10.233       | 10.239           | -0.006           | 98  | 69637    | 5.00             | 5.17               |       |
| 93 Benzidine                   | 184 | 10.369       | 10.375           | -0.006           | 99  | 26892    | 5.00             | 5.96               |       |
| 94 Pyrene                      | 202 | 10.463       | 10.475           | -0.012           | 98  | 70347    | 5.00             | 4.97               |       |
| \$ 96 Terphenyl-d14            | 244 | 10.622       | 10.628           | -0.006           | 99  | 49591    | 5.00             | 4.95               |       |
| 97 Butyl benzyl phthalate      | 149 | 11.157       | 11.169           | -0.012           | 98  | 23763    | 5.00             | 4.68               |       |
| 99 Carbamazepine               | 193 | 11.298       | 11.310           | -0.012           | 95  | 12400    | 5.00             | 3.78               |       |
| 100 3,3'-Dichlorobenzidine     | 252 | 11.810       | 11.822           | -0.012           | 98  | 13566    | 5.00             | 4.58               |       |
| 101 Benzo[a]anthracene         | 228 | 11.839       | 11.845           | -0.006           | 97  | 44985    | 5.00             | 4.79               |       |
| * 102 Chrysene-d12             | 240 | 11.851       | 11.863           | -0.012           | 99  | 314955   | 40.0             | 40.0               |       |
| 104 Bis(2-ethylhexyl) phthalat | 149 | 11.863       | 11.869           | -0.006           | 89  | 30923    | 5.00             | 4.55               |       |
| 103 Chrysene                   | 228 | 11.880       | 11.898           | -0.018           | 99  | 41746    | 5.00             | 4.93               |       |
| 105 Di-n-octyl phthalate       | 149 | 12.733       | 12.745           | -0.012           | 97  | 38595    | 5.00             | 4.60               |       |
| 106 Benzo[b]fluoranthene       | 252 | 13.274       | 13.292           | -0.018           | 99  | 30203    | 5.00             | 4.73               |       |
| 107 Benzo[k]fluoranthene       | 252 | 13.316       | 13.327           | -0.011           | 99  | 31610    | 5.00             | 4.95               |       |
| 108 Benzo[a]pyrene             | 252 | 13.733       | 13.745           | -0.012           | 98  | 26742    | 5.00             | 4.76               |       |
| * 109 Perylene-d12             | 264 | 13.816       | 13.821           | -0.005           | 98  | 198518   | 40.0             | 40.0               |       |
| 110 Indeno[1,2,3-cd]pyrene     | 276 | 15.404       | 15.421           | -0.017           | 99  | 18581    | 5.00             | 4.03               | M     |
| 111 Dibenz(a,h)anthracene      | 278 | 15.439       | 15.457           | -0.018           | 96  | 18824    | 5.00             | 4.19               |       |
| 112 Benzo[g,h,i]perylene       | 276 | 15.845       | 15.874           | -0.029           | 97  | 19675    | 5.00             | 3.99               |       |
| S 119 Total Cresols            | 1   |              |                  |                  | 0   |          |                  | 9.31               |       |

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

Review Flags

M - Manually Integrated

**Reagents:**

SV\_IC\_BNA\_L3\_00012

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160309-38213.b\\z41465.D

Injection Date: 09-Mar-2016 10:40:30

Instrument ID: CBNAMS11

Operator ID:

Lims ID: std5

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

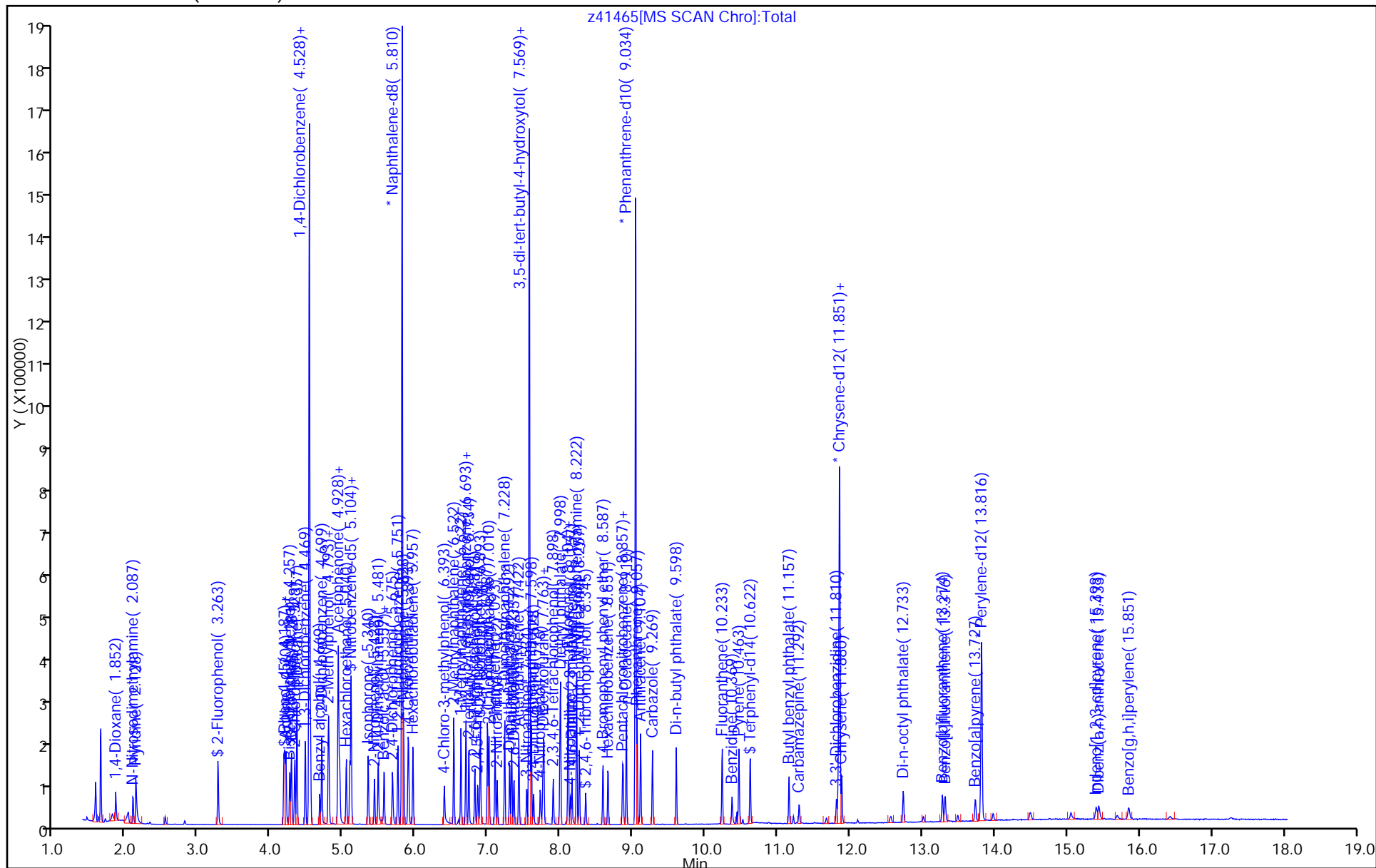
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8270\_11R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



## TestAmerica Edison

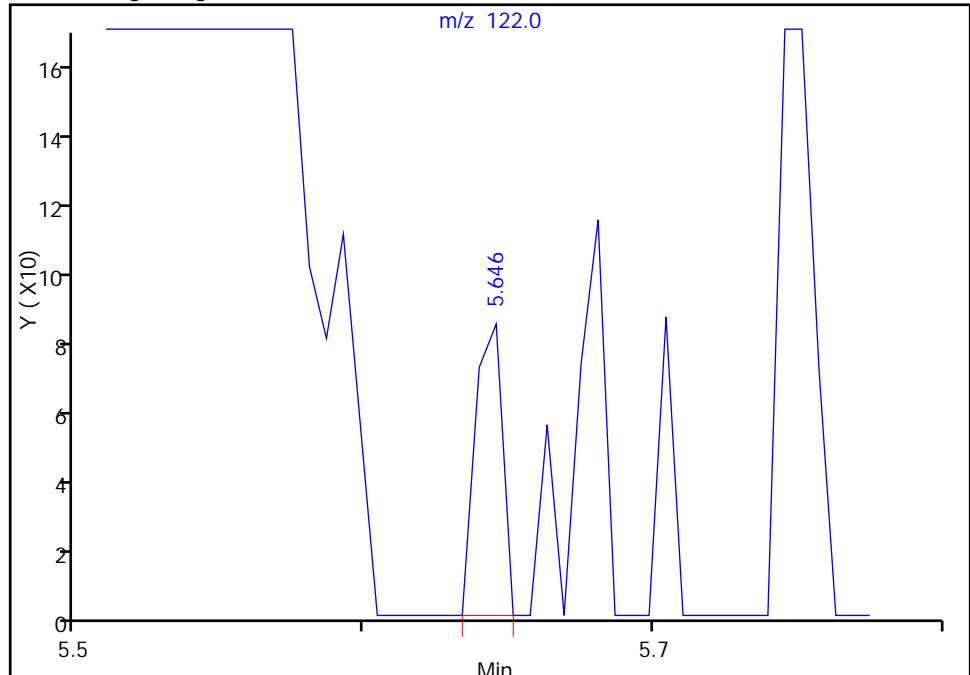
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Injection Date: 09-Mar-2016 10:40:30 Instrument ID: CBNAMS11  
Lims ID: std5  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_11R\_9  
Column: Rtxi-5Sil MS (0.25 mm)

ALS Bottle#: 7 Worklist Smp#: 7  
Dil. Factor: 1.0000  
Limit Group: SV 8270D ICAL  
Detector: MS SCAN

## 35 Benzoic acid, CAS: 65-85-0

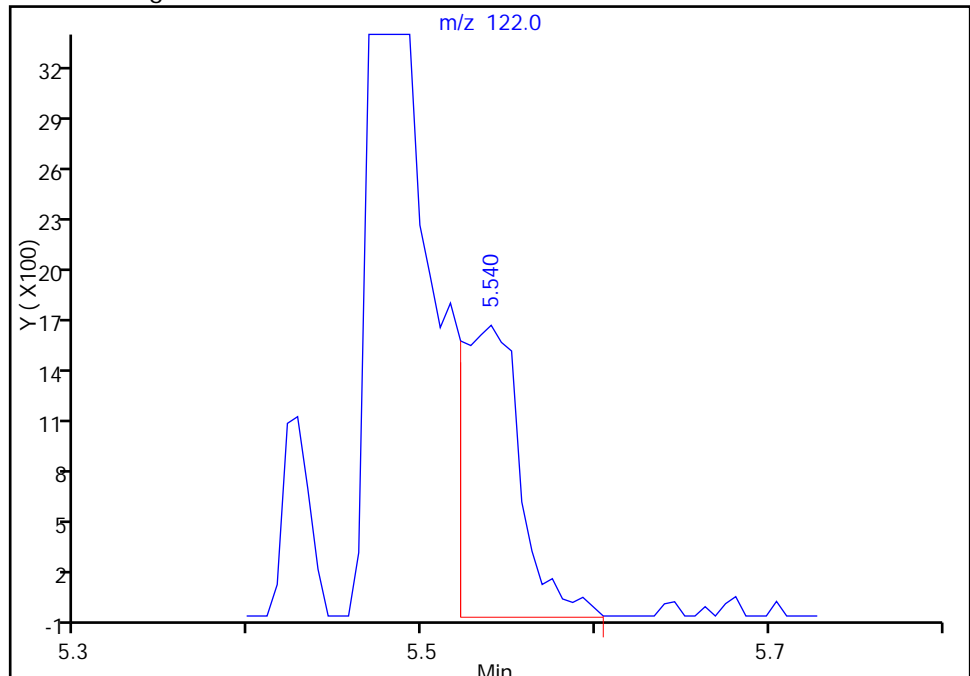
RT: 5.65  
Area: 53  
Amount: 5.320299  
Amount Units: ug/ml

## Processing Integration Results



RT: 5.54  
Area: 3970  
Amount: 6.515078  
Amount Units: ug/ml

## Manual Integration Results



Reviewer: szczecha, 09-Mar-2016 15:31:56  
Audit Action: Manually Integrated  
Audit Reason: Baseline

## TestAmerica Edison

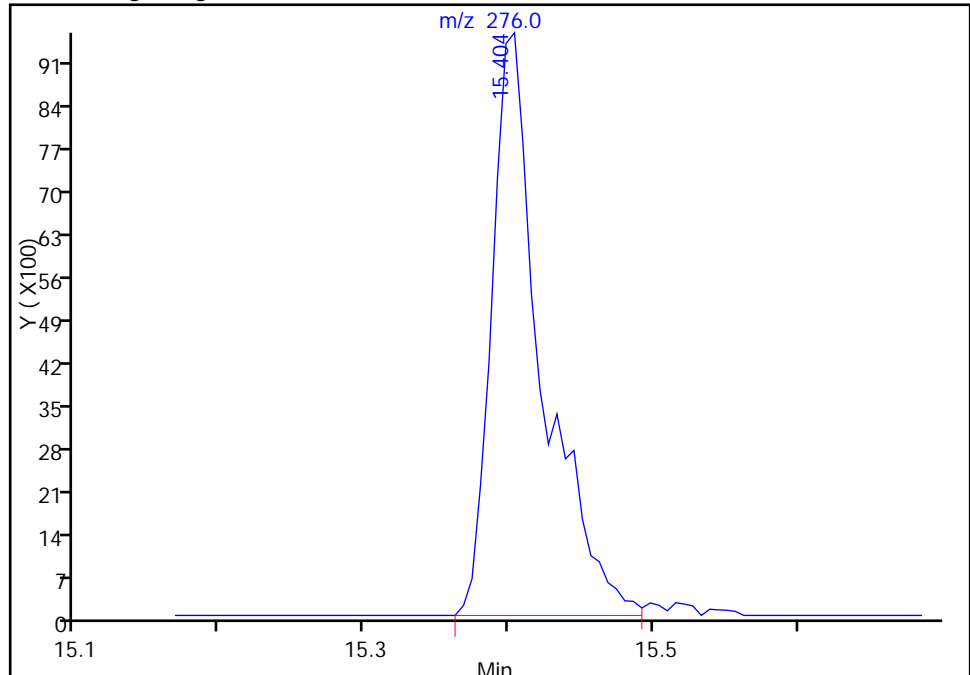
Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41465.D  
Injection Date: 09-Mar-2016 10:40:30 Instrument ID: CBNAMS11  
Lims ID: std5  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_11R\_9  
Column: Rtxi-5Sil MS (0.25 mm)

ALS Bottle#: 7 Worklist Smp#: 7  
Dil. Factor: 1.0000  
Limit Group: SV 8270D ICAL  
Detector: MS SCAN

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

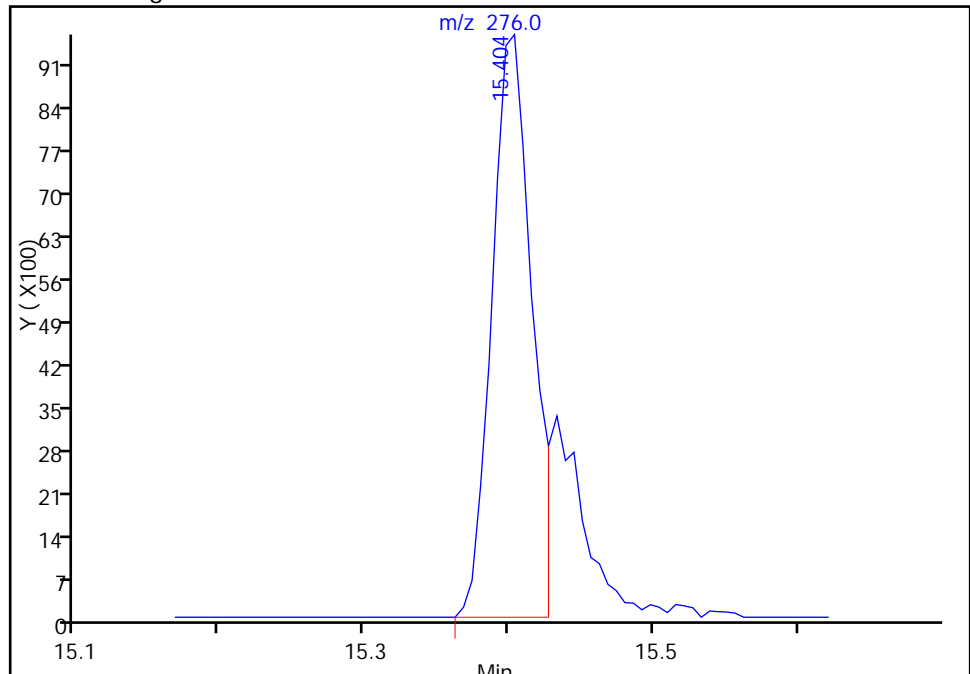
RT: 15.40  
Area: 23370  
Amount: 4.638780  
Amount Units: ug/ml

## Processing Integration Results



RT: 15.40  
Area: 18581  
Amount: 4.032788  
Amount Units: ug/ml

## Manual Integration Results



Reviewer: szczecha, 09-Mar-2016 15:09:30  
Audit Action: Split an Integrated Peak  
Audit Reason: Baseline

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41466.D  
 Lims ID: std2  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 09-Mar-2016 11:04:30 ALS Bottle#: 8 Worklist Smp#: 8  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038213-008  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Sublist: chrom-8270\_11R\_9\*sub18  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 16-Mar-2016 09:04:41 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK034

First Level Reviewer: szczecha

Date: 09-Mar-2016 15:10:08

| Compound                      | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-------------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| \$ 4 2-Fluorophenol           | 112 | 3.263        | 3.269            | -0.006           | 90  | 17346    | 2.00             | 1.97               |       |
| \$ 6 Phenol-d5                | 99  | 4.175        | 4.199            | -0.024           | 85  | 22417    | 2.00             | 2.12               |       |
| 9 Bis(2-chloroethyl)ether     | 93  | 4.257        | 4.269            | -0.012           | 95  | 16898    | 2.00             | 1.96               |       |
| * 14 1,4-Dichlorobenzene-d4   | 152 | 4.528        | 4.528            | 0.000            | 98  | 248123   | 40.0             | 40.0               |       |
| 21 N-Nitrosodi-n-propylamine  | 70  | 4.928        | 4.951            | -0.023           | 77  | 11751    | 2.00             | 2.12               |       |
| 25 Hexachloroethane           | 117 | 5.040        | 5.040            | 0.000            | 92  | 7356     | 2.00             | 2.00               |       |
| \$ 26 Nitrobenzene-d5         | 82  | 5.087        | 5.098            | -0.011           | 89  | 19202    | 2.00             | 2.11               |       |
| 28 n,n'-Dimethylaniline       | 120 | 5.104        | 5.116            | -0.012           | 91  | 21388    | 2.00             | 1.98               |       |
| 27 Nitrobenzene               | 77  | 5.104        | 5.122            | -0.018           | 90  | 23260    | 2.00             | 1.95               |       |
| 31 Isophorone                 | 82  | 5.340        | 5.363            | -0.023           | 99  | 27448    | 2.00             | 1.96               |       |
| 36 2,4-Dichlorophenol         | 162 | 5.675        | 5.687            | -0.012           | 94  | 11615    | 2.00             | 1.88               |       |
| 37 1,2,4-Trichlorobenzene     | 180 | 5.751        | 5.757            | -0.006           | 94  | 15335    | 2.00             | 2.08               |       |
| * 38 Naphthalene-d8           | 136 | 5.810        | 5.816            | -0.006           | 100 | 856035   | 40.0             | 40.0               |       |
| 41 Hexachlorobutadiene        | 225 | 5.957        | 5.963            | -0.006           | 94  | 8654     | 2.00             | 1.98               |       |
| 49 2,4,6-Trichlorophenol      | 196 | 6.816        | 6.822            | -0.006           | 87  | 7626     | 2.00             | 1.87               |       |
| \$ 51 2-Fluorobiphenyl        | 172 | 6.892        | 6.898            | -0.006           | 98  | 33274    | 2.00             | 2.11               |       |
| 60 2,6-Dinitrotoluene         | 165 | 7.357        | 7.369            | -0.012           | 95  | 5848     | 2.00             | 1.99               |       |
| * 65 Acenaphthene-d10         | 164 | 7.569        | 7.575            | -0.006           | 93  | 420517   | 40.0             | 40.0               |       |
| 68 2,4-Dinitrophenol          | 184 | 7.628        | 7.645            | -0.017           | 95  | 2875     | 4.00             | 4.32               |       |
| 70 2,4-Dinitrotoluene         | 165 | 7.757        | 7.769            | -0.012           | 94  | 7389     | 2.00             | 2.02               |       |
| 77 4,6-Dinitro-2-methylphenol | 198 | 8.157        | 8.181            | -0.024           | 84  | 4905     | 4.00             | 4.15               |       |
| 78 N-Nitrosodiphenylamine     | 169 | 8.222        | 8.239            | -0.017           | 67  | 37519    | 4.00             | 3.86               |       |
| \$ 80 2,4,6-Tribromophenol    | 330 | 8.345        | 8.357            | -0.012           | 92  | 3628     | 2.00             | 2.09               |       |
| 82 Hexachlorobenzene          | 284 | 8.657        | 8.663            | -0.006           | 97  | 7761     | 2.00             | 1.95               |       |
| 84 Pentachlorophenol          | 266 | 8.857        | 8.863            | -0.006           | 92  | 3771     | 4.00             | 5.18               |       |
| * 87 Phenanthrene-d10         | 188 | 9.039        | 9.045            | -0.006           | 99  | 635698   | 40.0             | 40.0               |       |
| \$ 96 Terphenyl-d14           | 244 | 10.622       | 10.628           | -0.006           | 99  | 24561    | 2.00             | 2.27               |       |
| 100 3,3'-Dichlorobenzidine    | 252 | 11.810       | 11.822           | -0.012           | 98  | 5196     | 2.00             | 1.63               |       |
| 101 Benzo[a]anthracene        | 228 | 11.839       | 11.845           | -0.006           | 97  | 19610    | 2.00             | 1.93               |       |
| * 102 Chrysene-d12            | 240 | 11.857       | 11.863           | -0.006           | 100 | 339930   | 40.0             | 40.0               |       |

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41466.D

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| 106 Benzo[b]fluoranthene   | 252 | 13.274       | 13.292           | -0.018           | 98 | 12718    | 2.00             | 1.97               |       |
| 107 Benzo[k]fluoranthene   | 252 | 13.315       | 13.327           | -0.012           | 99 | 12247    | 2.00             | 1.89               |       |
| 108 Benzo[a]pyrene         | 252 | 13.733       | 13.745           | -0.012           | 97 | 10504    | 2.00             | 1.85               |       |
| * 109 Perylene-d12         | 264 | 13.815       | 13.821           | -0.006           | 99 | 201149   | 40.0             | 40.0               |       |
| 110 Indeno[1,2,3-cd]pyrene | 276 | 15.392       | 15.421           | -0.029           | 98 | 7483     | 2.00             | 1.60               |       |
| 111 Dibenz(a,h)anthracene  | 278 | 15.433       | 15.457           | -0.024           | 94 | 8657     | 2.00             | 1.90               | M     |

### QC Flag Legend

Review Flags

M - Manually Integrated

### Reagents:

SV\_IC\_BNA\_L0\_00008

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160309-38213.b\\z41466.D

Injection Date: 09-Mar-2016 11:04:30

Instrument ID: CBNAMS11

Operator ID:

Lims ID: std2

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

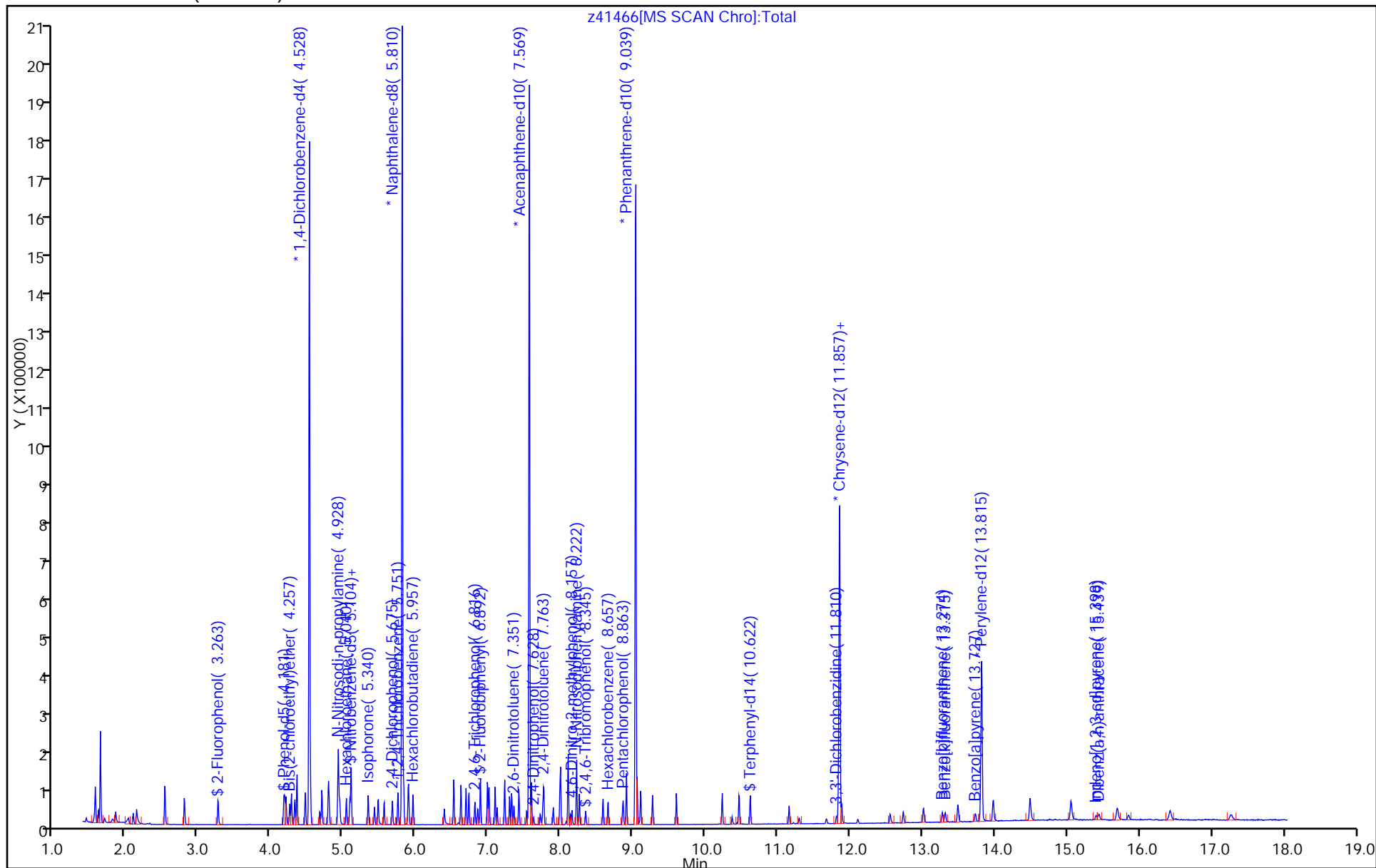
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8270\_11R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS ( 0.25 mm)



## TestAmerica Edison

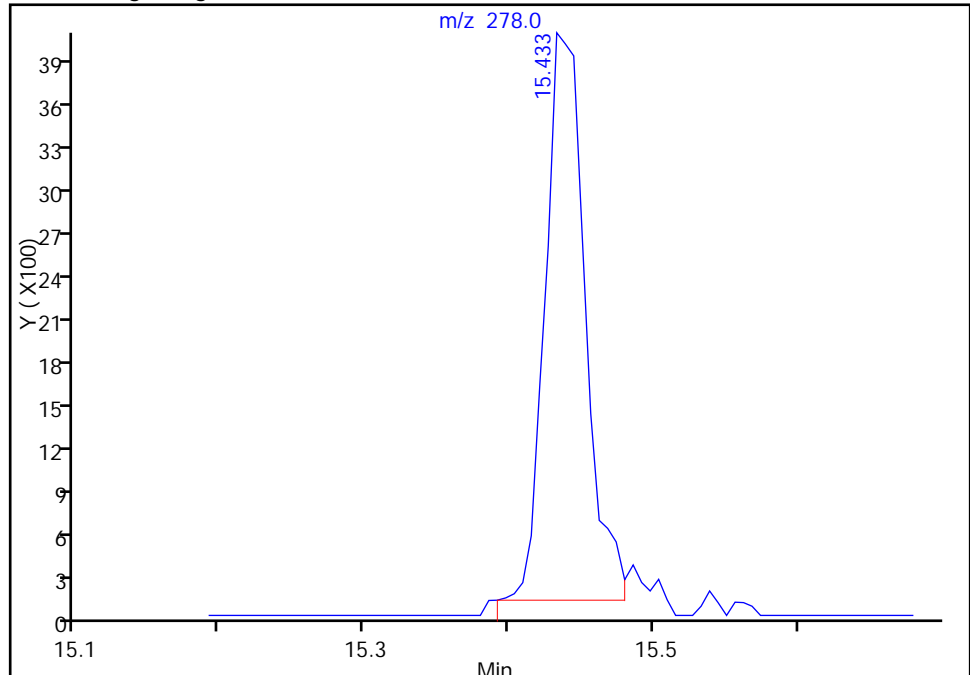
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Injection Date: 09-Mar-2016 11:04:30 Instrument ID: CBNAMS11  
Lims ID: std2  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_11R\_9  
Column: Rtxi-5Sil MS (0.25 mm)

ALS Bottle#: 8 Worklist Smp#: 8  
Dil. Factor: 1.0000  
Limit Group: SV 8270D ICAL  
Detector: MS SCAN

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

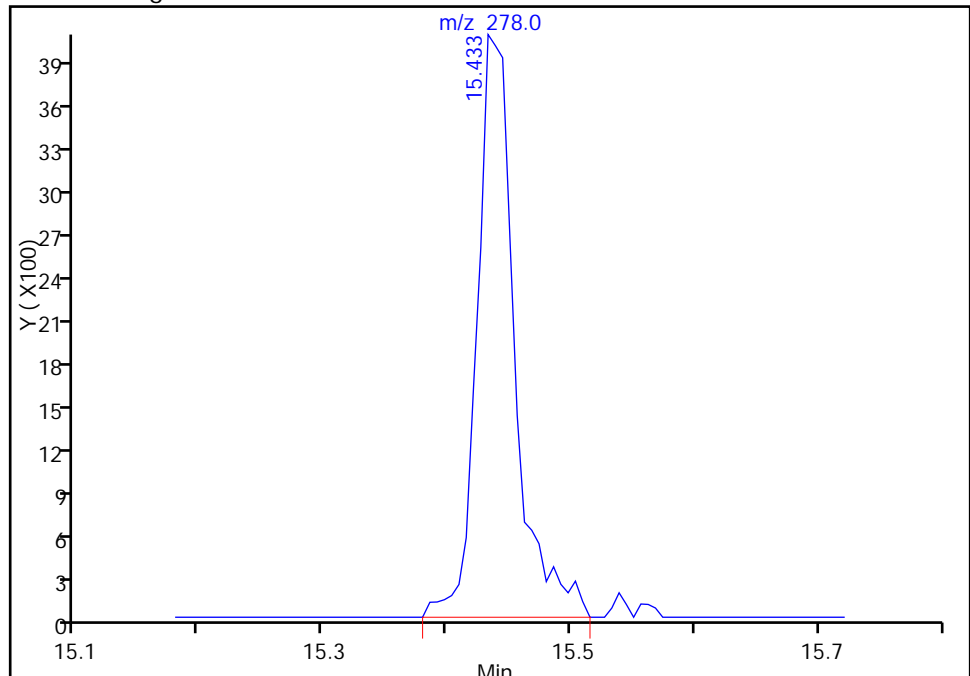
RT: 15.43  
Area: 7629  
Amount: 1.810968  
Amount Units: ug/ml

## Processing Integration Results



RT: 15.43  
Area: 8657  
Amount: 1.901878  
Amount Units: ug/ml

## Manual Integration Results



Reviewer: szczecha, 09-Mar-2016 15:10:08  
Audit Action: Manually Integrated  
Audit Reason: Baseline



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41467.D  
 Lims ID: std1  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 09-Mar-2016 11:28:30 ALS Bottle#: 9 Worklist Smp#: 9  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038213-009  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Sublist: chrom-8270\_11R\_9\*sub18  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 16-Mar-2016 09:05:02 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK034

First Level Reviewer: szczech

Date: 09-Mar-2016 15:10:37

| Compound                     | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|------------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| \$ 4 2-Fluorophenol          | 112 | 3.269        | 3.269            | 0.000            | 92  | 8439     | 1.00             | 0.8779             |       |
| \$ 6 Phenol-d5               | 99  | 4.175        | 4.199            | -0.024           | 86  | 9695     | 1.00             | 0.8419             |       |
| 9 Bis(2-chloroethyl)ether    | 93  | 4.257        | 4.269            | -0.012           | 96  | 9362     | 1.00             | 1.00               |       |
| * 14 1,4-Dichlorobenzene-d4  | 152 | 4.528        | 4.528            | 0.000            | 98  | 270652   | 40.0             | 40.0               |       |
| 21 N-Nitrosodi-n-propylamine | 70  | 4.928        | 4.951            | -0.023           | 81  | 6081     | 1.00             | 1.01               |       |
| 25 Hexachloroethane          | 117 | 5.040        | 5.040            | 0.000            | 94  | 4349     | 1.00             | 1.09               |       |
| \$ 26 Nitrobenzene-d5        | 82  | 5.087        | 5.098            | -0.011           | 89  | 8077     | 1.00             | 0.8531             |       |
| 28 n,n'-Dimethylaniline      | 120 | 5.104        | 5.116            | -0.012           | 93  | 10351    | 1.00             | 0.8773             |       |
| 27 Nitrobenzene              | 77  | 5.104        | 5.122            | -0.018           | 92  | 11944    | 1.00             | 0.9615             |       |
| 37 1,2,4-Trichlorobenzene    | 180 | 5.751        | 5.757            | -0.006           | 92  | 8051     | 1.00             | 1.05               |       |
| * 38 Naphthalene-d8          | 136 | 5.810        | 5.816            | -0.006           | 100 | 890949   | 40.0             | 40.0               |       |
| 41 Hexachlorobutadiene       | 225 | 5.957        | 5.963            | -0.006           | 92  | 4716     | 1.00             | 1.04               |       |
| \$ 51 2-Fluorobiphenyl       | 172 | 6.892        | 6.898            | -0.006           | 98  | 14209    | 1.00             | 0.9279             |       |
| 60 2,6-Dinitrotoluene        | 165 | 7.357        | 7.369            | -0.012           | 91  | 2491     | 1.00             | 0.8748             |       |
| * 65 Acenaphthene-d10        | 164 | 7.569        | 7.575            | -0.006           | 93  | 407514   | 40.0             | 40.0               |       |
| 70 2,4-Dinitrotoluene        | 165 | 7.757        | 7.769            | -0.012           | 97  | 3329     | 1.00             | 0.9384             |       |
| \$ 80 2,4,6-Tribromophenol   | 330 | 8.345        | 8.357            | -0.012           | 90  | 1222     | 1.00             | 0.7258             |       |
| 82 Hexachlorobenzene         | 284 | 8.657        | 8.663            | -0.006           | 97  | 3726     | 1.00             | 0.9816             |       |
| * 87 Phenanthrene-d10        | 188 | 9.039        | 9.045            | -0.006           | 99  | 606067   | 40.0             | 40.0               |       |
| \$ 96 Terphenyl-d14          | 244 | 10.622       | 10.628           | -0.006           | 99  | 10227    | 1.00             | 0.8768             |       |
| 101 Benzo[a]anthracene       | 228 | 11.839       | 11.845           | -0.006           | 97  | 11535    | 1.00             | 1.05               |       |
| * 102 Chrysene-d12           | 240 | 11.857       | 11.863           | -0.006           | 99  | 366842   | 40.0             | 40.0               |       |
| 106 Benzo[b]fluoranthene     | 252 | 13.280       | 13.292           | -0.012           | 98  | 7345     | 1.00             | 0.9791             |       |
| 107 Benzo[k]fluoranthene     | 252 | 13.316       | 13.327           | -0.011           | 99  | 6772     | 1.00             | 0.9022             |       |
| 108 Benzo[a]pyrene           | 252 | 13.727       | 13.745           | -0.018           | 96  | 6101     | 1.00             | 0.9248             |       |
| * 109 Perylene-d12           | 264 | 13.821       | 13.821           | 0.000            | 99  | 233300   | 40.0             | 40.0               |       |
| 110 Indeno[1,2,3-cd]pyrene   | 276 | 15.404       | 15.421           | -0.017           | 82  | 5334     | 1.00             | 0.9851             |       |
| 111 Dibenz(a,h)anthracene    | 278 | 15.439       | 15.457           | -0.018           | 93  | 4175     | 1.00             | 0.7908             |       |

**Reagents:**

SV\_IC\_BNA\_L2\_00010

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160309-38213.b\\z41467.D

Injection Date: 09-Mar-2016 11:28:30

Instrument ID: CBNAMS11

Operator ID:

Lims ID: std1

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

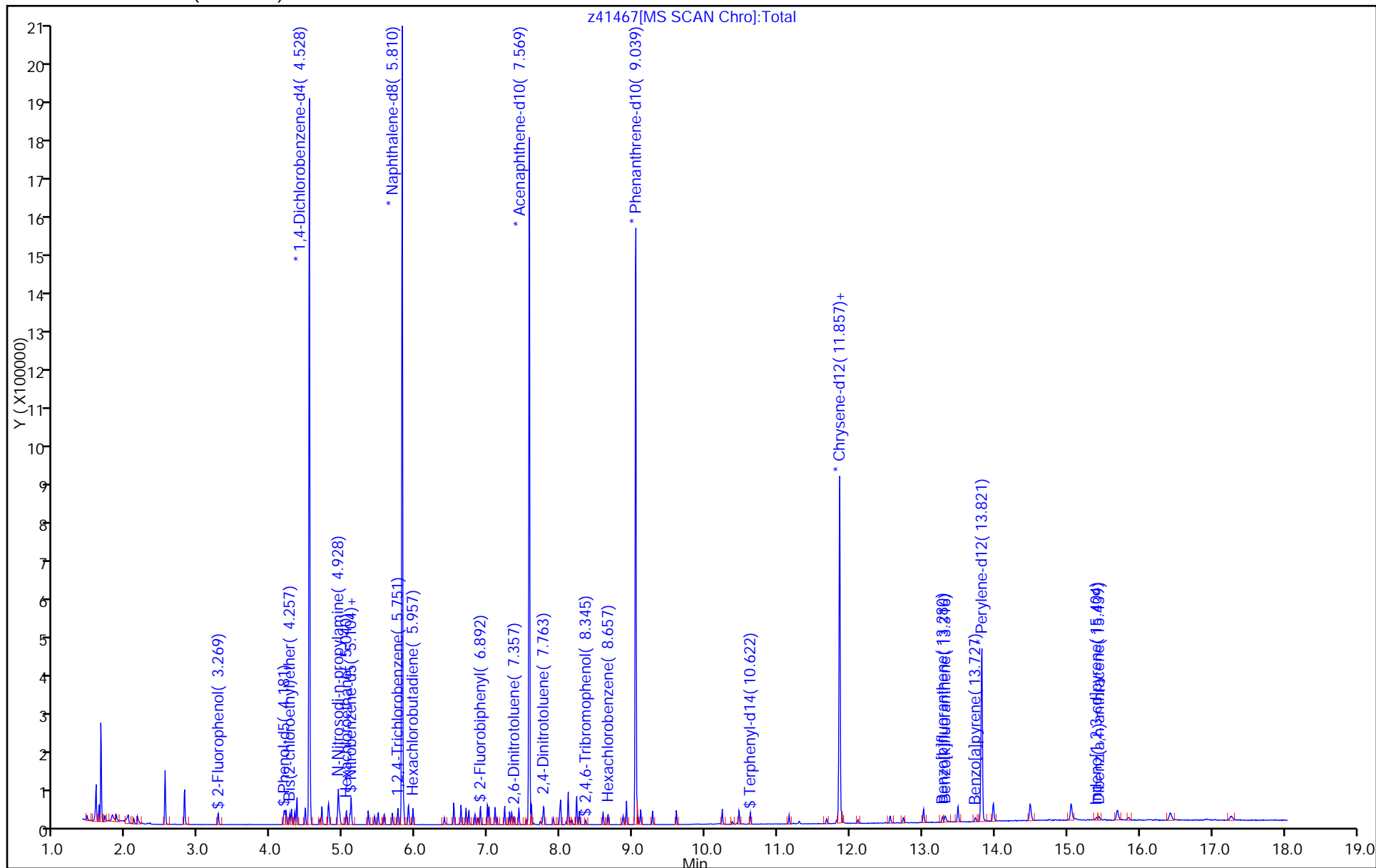
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8270\_11R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41468.D  
 Lims ID: std05  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 09-Mar-2016 11:52:30 ALS Bottle#: 10 Worklist Smp#: 10  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038213-010  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Sublist: chrom-8270\_11R\_9\*sub18  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 16-Mar-2016 09:05:19 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK034

First Level Reviewer: szczech

Date: 09-Mar-2016 15:39:26

| Compound                     | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|------------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 9 Bis(2-chloroethyl)ether    | 93  | 4.257        | 4.269            | -0.012           | 93  | 4939     | 0.5000           | 0.5031             |       |
| * 14 1,4-Dichlorobenzene-d4  | 152 | 4.528        | 4.528            | 0.000            | 98  | 283173   | 40.0             | 40.0               |       |
| 21 N-Nitrosodi-n-propylamine | 70  | 4.928        | 4.951            | -0.023           | 75  | 3193     | 0.5000           | 0.5052             |       |
| 25 Hexachloroethane          | 117 | 5.040        | 5.040            | 0.000            | 90  | 1998     | 0.5000           | 0.4767             |       |
| \$ 26 Nitrobenzene-d5        | 82  | 5.087        | 5.098            | -0.011           | 88  | 4296     | 0.5000           | 0.4264             |       |
| 28 n,n'-Dimethylaniline      | 120 | 5.104        | 5.116            | -0.012           | 85  | 5588     | 0.5000           | 0.4526             |       |
| 27 Nitrobenzene              | 77  | 5.104        | 5.122            | -0.018           | 90  | 6448     | 0.5000           | 0.4878             |       |
| 37 1,2,4-Trichlorobenzene    | 180 | 5.751        | 5.757            | -0.006           | 94  | 4062     | 0.5000           | 0.4964             |       |
| * 38 Naphthalene-d8          | 136 | 5.810        | 5.816            | -0.006           | 100 | 948112   | 40.0             | 40.0               |       |
| \$ 51 2-Fluorobiphenyl       | 172 | 6.892        | 6.898            | -0.006           | 98  | 7753     | 0.5000           | 0.4549             |       |
| * 65 Acenaphthene-d10        | 164 | 7.569        | 7.575            | -0.006           | 95  | 453505   | 40.0             | 40.0               |       |
| 82 Hexachlorobenzene         | 284 | 8.657        | 8.663            | -0.006           | 97  | 2269     | 0.5000           | 0.5139             |       |
| * 87 Phenanthrene-d10        | 188 | 9.039        | 9.045            | -0.006           | 99  | 704886   | 40.0             | 40.0               |       |
| \$ 96 Terphenyl-d14          | 244 | 10.622       | 10.628           | -0.006           | 99  | 5542     | 0.5000           | 0.4385             |       |
| 101 Benzo[a]anthracene       | 228 | 11.839       | 11.845           | -0.006           | 97  | 6550     | 0.5000           | 0.5522             |       |
| * 102 Chrysene-d12           | 240 | 11.857       | 11.863           | -0.006           | 100 | 397534   | 40.0             | 40.0               |       |
| 106 Benzo[b]fluoranthene     | 252 | 13.280       | 13.292           | -0.012           | 98  | 4284     | 0.5000           | 0.5420             |       |
| 107 Benzo[k]fluoranthene     | 252 | 13.310       | 13.327           | -0.017           | 98  | 3727     | 0.5000           | 0.4712             |       |
| 108 Benzo[a]pyrene           | 252 | 13.733       | 13.745           | -0.012           | 95  | 3269     | 0.5000           | 0.4703             |       |
| * 109 Perylene-d12           | 264 | 13.821       | 13.821           | 0.000            | 98  | 245807   | 40.0             | 40.0               |       |
| 110 Indeno[1,2,3-cd]pyrene   | 276 | 15.398       | 15.421           | -0.023           | 68  | 2530     | 0.5000           | 0.4435             | M     |
| 111 Dibenz(a,h)anthracene    | 278 | 15.439       | 15.457           | -0.018           | 93  | 2253     | 0.5000           | 0.4050             |       |

## 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\\CBNAMS11\\20160309-38213.b\\z41468.D

Injection Date: 09-Mar-2016 11:52:30

Instrument ID: CBNAMS11

Operator ID:

Lims ID: std05

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

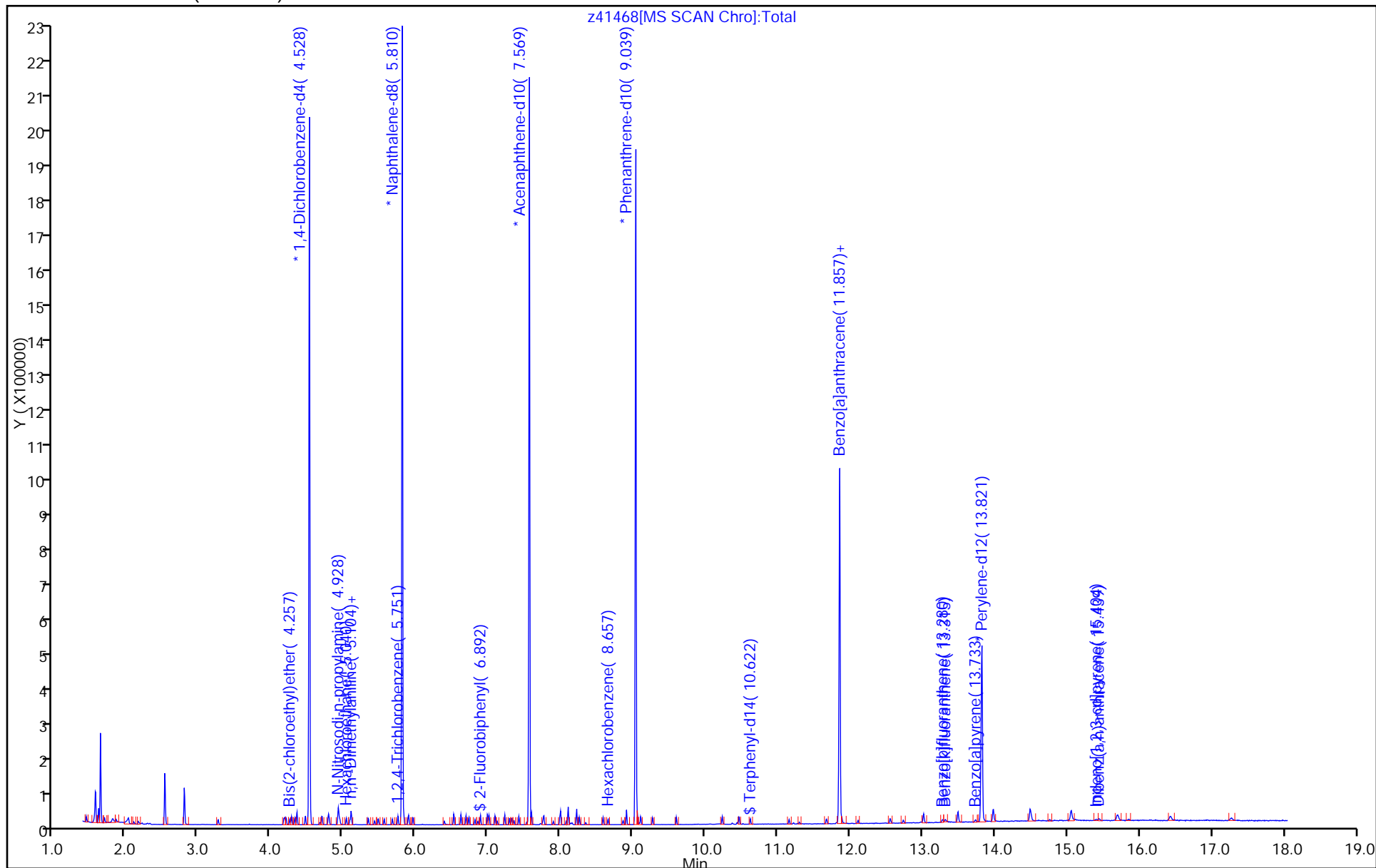
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 8270\_11R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS ( 0.25 mm)



## TestAmerica Edison

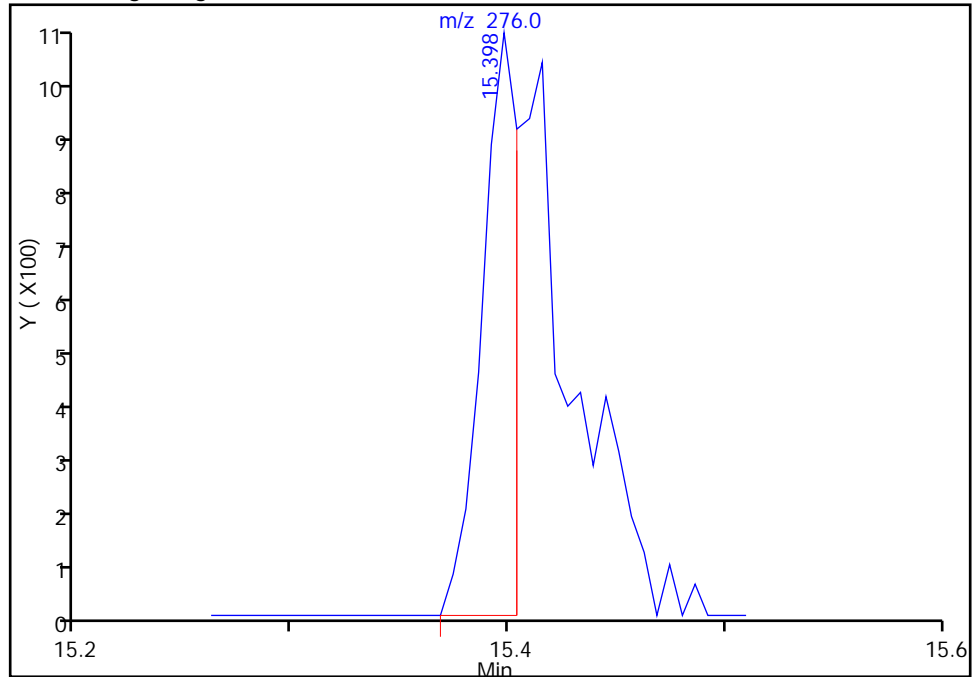
Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41468.D  
Injection Date: 09-Mar-2016 11:52:30 Instrument ID: CBNAMS11  
Lims ID: std05  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_11R\_9  
Column: Rtxi-5Sil MS (0.25 mm)

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

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

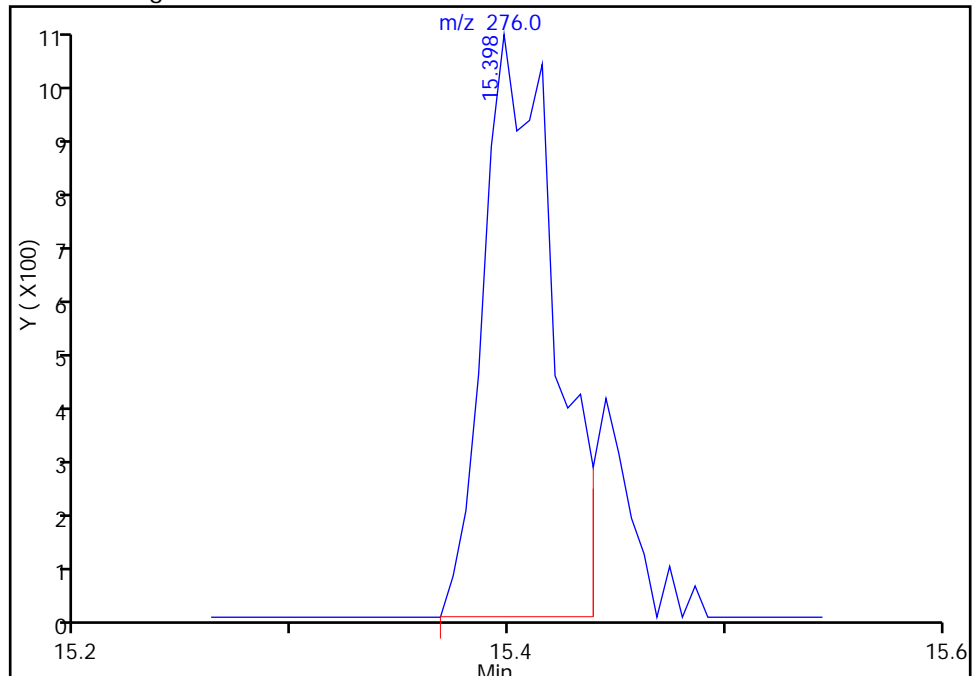
RT: 15.40  
Area: 1286  
Amount: 0.586220  
Amount Units: ug/ml

## Processing Integration Results



RT: 15.40  
Area: 2530  
Amount: 0.443468  
Amount Units: ug/ml

## Manual Integration Results



Reviewer: szczecha, 09-Mar-2016 15:11:39  
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.: 460-109716-1 Analy Batch No.: 354905

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS11 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/09/2016 12:16 Calibration End Date: 03/09/2016 14:41 Calibration ID: 54802

Calibration Files:

| LEVEL:  | LAB SAMPLE ID:       | LAB FILE ID: |
|---------|----------------------|--------------|
| Level 1 | STD2 460-354905/17   | z41475.D     |
| Level 2 | STD5 460-354905/16   | z41474.D     |
| Level 3 | STD10 460-354905/15  | z41473.D     |
| Level 4 | STD20 460-354905/14  | z41472.D     |
| Level 5 | STD50 460-354905/11  | z41469.D     |
| Level 6 | STD80 460-354905/13  | z41471.D     |
| Level 7 | STD120 460-354905/12 | z41470.D     |

| ANALYTE      | RRF              |                  |        |        |        | CURVE<br>TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|--------------|------------------|------------------|--------|--------|--------|---------------|-------------|--------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|              | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3  | LVL 4  | LVL 5  |               | B           | M1     | M2 |   |         |      |   |             |               |   |                   |
| Benzaldehyde | 1.1590           | 1.1589<br>1.2373 | 1.1287 | 1.2203 | 1.2171 | Ave           |             | 1.1869 |    |   | 0.0100  | 3.7  |   | 20.0        |               |   |                   |
| Caprolactam  | 0.0894           | 0.0747<br>0.0937 | 0.0750 | 0.0814 | 0.0920 | Ave           |             | 0.0844 |    |   | 0.0100  | 10.1 |   | 20.0        |               |   |                   |
| Atrazine     | 0.2077<br>0.2106 | 0.1980<br>0.2124 | 0.2031 | 0.2247 | 0.2146 | Ave           |             | 0.2102 |    |   | 0.0100  | 4.1  |   | 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.: 460-109716-1 Analy Batch No.: 354905

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS11 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/09/2016 12:16 Calibration End Date: 03/09/2016 14:41 Calibration ID: 54802

Calibration Files:

| LEVEL:  | LAB SAMPLE ID:       | LAB FILE ID: |
|---------|----------------------|--------------|
| Level 1 | STD2 460-354905/17   | z41475.D     |
| Level 2 | STD5 460-354905/16   | z41474.D     |
| Level 3 | STD10 460-354905/15  | z41473.D     |
| Level 4 | STD20 460-354905/14  | z41472.D     |
| Level 5 | STD50 460-354905/11  | z41469.D     |
| Level 6 | STD80 460-354905/13  | z41471.D     |
| Level 7 | STD120 460-354905/12 | z41470.D     |

| ANALYTE      | IS<br>REF | CURVE<br>TYPE | RESPONSE       |                  |       |        |        | CONCENTRATION (UG/ML) |                |       |       |       |
|--------------|-----------|---------------|----------------|------------------|-------|--------|--------|-----------------------|----------------|-------|-------|-------|
|              |           |               | LVL 1<br>LVL 6 | LVL 2<br>LVL 7   | LVL 3 | LVL 4  | LVL 5  | LVL 6                 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Benzaldehyde | DCB       | Ave           | 661562         | 51765<br>1293900 | 80100 | 172777 | 411587 | 80.0                  | 5.00<br>120    | 10.0  | 20.0  | 50.0  |
| Caprolactam  | NPT       | Ave           | 168174         | 10943<br>329919  | 17684 | 36718  | 106534 | 80.0                  | 5.00<br>120    | 10.0  | 20.0  | 50.0  |
| Atrazine     | PHN       | Ave           | 7318<br>281156 | 20409<br>532698  | 34137 | 65966  | 183978 | 2.00<br>80.0          | 5.00<br>120    | 10.0  | 20.0  | 50.0  |

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41469.D  
 Lims ID: std50  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 09-Mar-2016 12:16:30 ALS Bottle#: 11 Worklist Smp#: 11  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038213-011  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Sublist: chrom-8270\_11R\_9\*sub13  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 09-Mar-2016 15:32:09 Calib Date: 09-Mar-2016 14:17:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41474.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK028

First Level Reviewer: szczecha

Date: 09-Mar-2016 15:32:09

| Compound                    | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 5 Benzaldehyde              | 77  | 4.099        | 4.099            | 0.000            | 95  | 411587   | 50.0             | 51.3               |       |
| * 14 1,4-Dichlorobenzene-d4 | 152 | 4.528        | 4.528            | 0.000            | 98  | 270533   | 40.0             | 40.0               |       |
| * 38 Naphthalene-d8         | 136 | 5.810        | 5.810            | 0.000            | 100 | 926174   | 40.0             | 40.0               |       |
| 42 Caprolactam              | 113 | 6.240        | 6.240            | 0.000            | 89  | 106534   | 50.0             | 54.5               |       |
| * 65 Acenaphthene-d10       | 164 | 7.569        | 7.569            | 0.000            | 93  | 441336   | 40.0             | 40.0               |       |
| 83 Atrazine                 | 200 | 8.763        | 8.763            | 0.000            | 93  | 183978   | 50.0             | 51.0               |       |
| * 87 Phenanthrene-d10       | 188 | 9.039        | 9.039            | 0.000            | 99  | 685760   | 40.0             | 40.0               |       |
| * 102 Chrysene-d12          | 240 | 11.857       | 11.857           | 0.000            | 100 | 377216   | 40.0             | 40.0               |       |
| * 109 Perylene-d12          | 264 | 13.821       | 13.821           | 0.000            | 98  | 229200   | 40.0             | 40.0               |       |

**Reagents:**

SV\_IC-S\_L6\_00018

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41469.D

Injection Date: 09-Mar-2016 12:16:30

Instrument ID: CBNAMS11

Operator ID:

Lims ID: std50

Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 ul

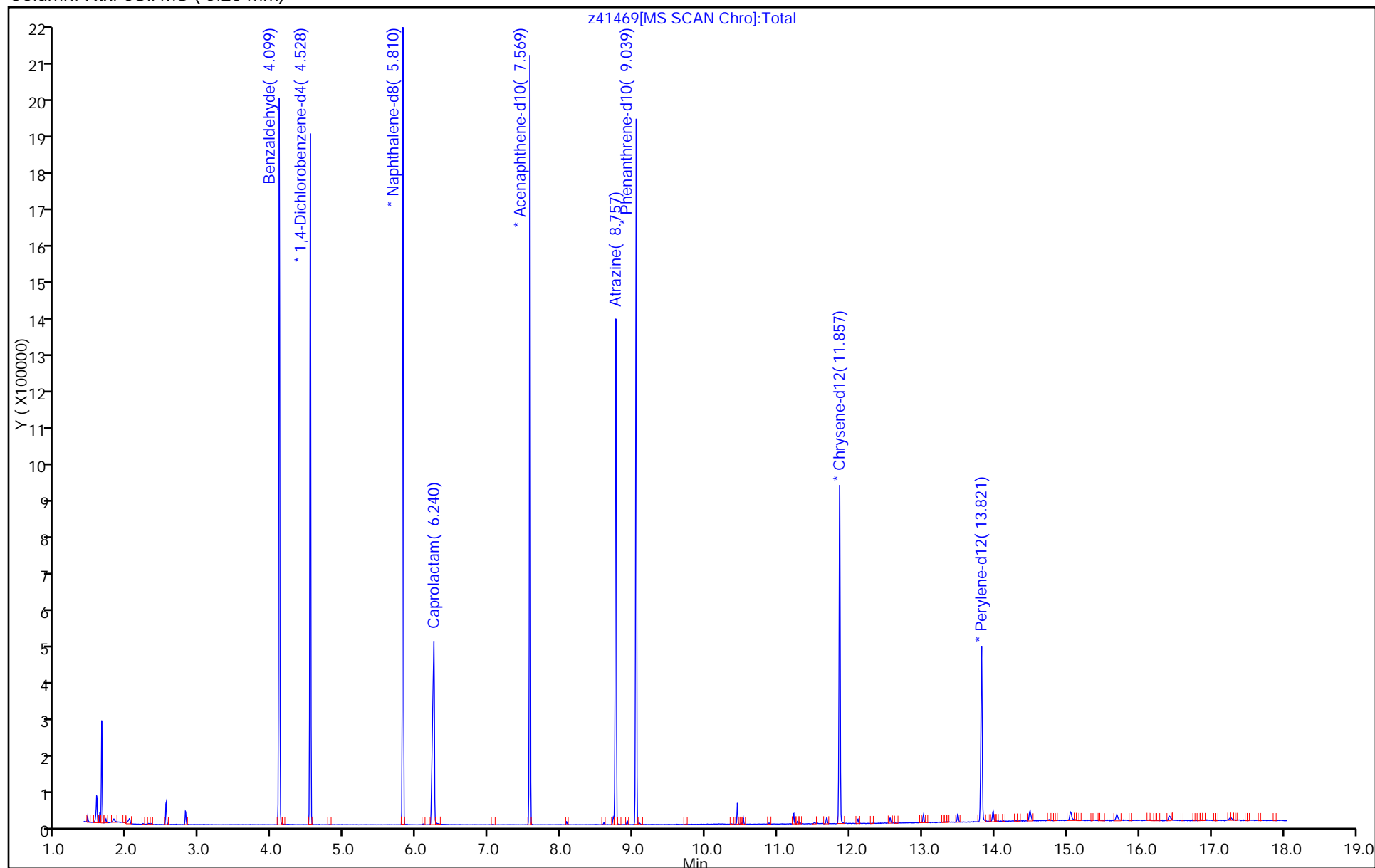
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 8270\_11R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS ( 0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41470.D  
 Lims ID: std120  
 Client ID:  
 Sample Type: IC Calib Level: 9  
 Inject. Date: 09-Mar-2016 12:41:30 ALS Bottle#: 12 Worklist Smp#: 12  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038213-012  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Sublist: chrom-8270\_11R\_9\*sub13  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 09-Mar-2016 15:39:37 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK028

First Level Reviewer: szczecha

Date: 09-Mar-2016 15:39:36

| Compound                    | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 5 Benzaldehyde              | 77  | 4.110        | 4.099            | 0.011            | 96  | 1293900  | 120.0            | 125.1              |       |
| * 14 1,4-Dichlorobenzene-d4 | 152 | 4.528        | 4.528            | 0.000            | 98  | 348570   | 40.0             | 40.0               |       |
| * 38 Naphthalene-d8         | 136 | 5.816        | 5.816            | 0.000            | 100 | 1173580  | 40.0             | 40.0               |       |
| 42 Caprolactam              | 113 | 6.281        | 6.240            | 0.041            | 90  | 329919   | 120.0            | 133.3              |       |
| * 65 Acenaphthene-d10       | 164 | 7.569        | 7.575            | -0.006           | 97  | 504956   | 40.0             | 40.0               |       |
| 83 Atrazine                 | 200 | 8.774        | 8.763            | 0.011            | 93  | 532698   | 120.0            | 121.3              |       |
| * 87 Phenanthrene-d10       | 188 | 9.039        | 9.045            | -0.006           | 99  | 836081   | 40.0             | 40.0               |       |
| * 102 Chrysene-d12          | 240 | 11.857       | 11.863           | -0.006           | 100 | 448696   | 40.0             | 40.0               |       |
| * 109 Perylene-d12          | 264 | 13.821       | 13.821           | 0.000            | 99  | 280062   | 40.0             | 40.0               |       |

**Reagents:**

SV\_IC-S\_L8\_00004

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160309-38213.b\\z41470.D

Injection Date: 09-Mar-2016 12:41:30

Instrument ID: CBNAMS11

Operator ID:

Lims ID: std120

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

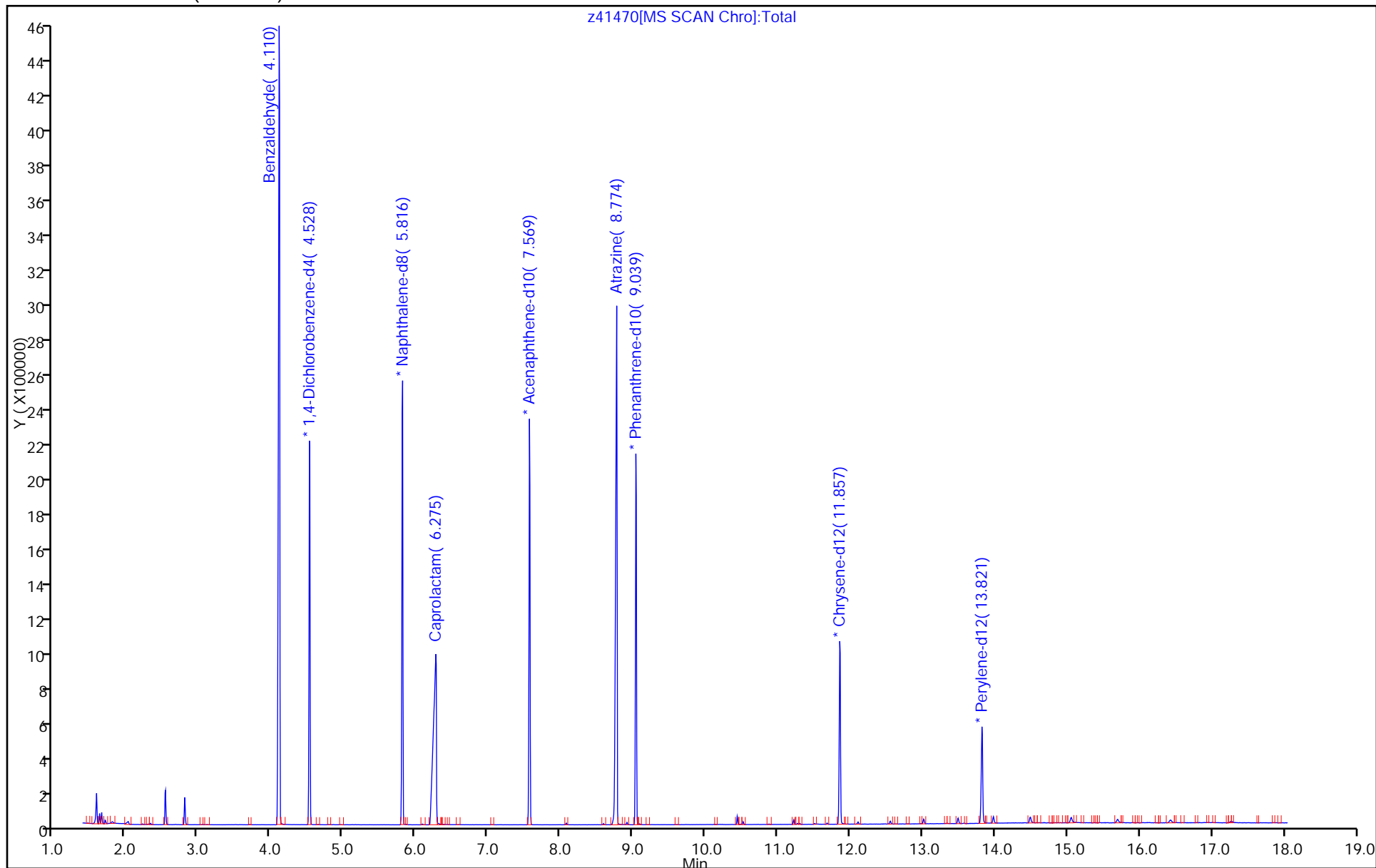
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 8270\_11R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41471.D  
 Lims ID: std80  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 09-Mar-2016 13:05:30 ALS Bottle#: 13 Worklist Smp#: 13  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038213-013  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Sublist: chrom-8270\_11R\_9\*sub13  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 09-Mar-2016 15:39:48 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK028

First Level Reviewer: szczecha

Date: 09-Mar-2016 15:39:48

| Compound                    | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 5 Benzaldehyde              | 77  | 4.104        | 4.099            | 0.005            | 96  | 661562   | 80.0             | 78.1               |       |
| * 14 1,4-Dichlorobenzene-d4 | 152 | 4.528        | 4.528            | 0.000            | 98  | 285398   | 40.0             | 40.0               |       |
| * 38 Naphthalene-d8         | 136 | 5.810        | 5.816            | -0.006           | 100 | 940209   | 40.0             | 40.0               |       |
| 42 Caprolactam              | 113 | 6.251        | 6.240            | 0.011            | 90  | 168174   | 80.0             | 84.8               |       |
| * 65 Acenaphthene-d10       | 164 | 7.569        | 7.575            | -0.006           | 97  | 397538   | 40.0             | 40.0               |       |
| 83 Atrazine                 | 200 | 8.763        | 8.763            | 0.000            | 93  | 281156   | 80.0             | 80.2               |       |
| * 87 Phenanthrene-d10       | 188 | 9.039        | 9.045            | -0.006           | 99  | 667445   | 40.0             | 40.0               |       |
| * 102 Chrysene-d12          | 240 | 11.857       | 11.863           | -0.006           | 100 | 363774   | 40.0             | 40.0               |       |
| * 109 Perylene-d12          | 264 | 13.821       | 13.821           | 0.000            | 98  | 229891   | 40.0             | 40.0               |       |

**Reagents:**

SV\_IC-S\_L7\_00004

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160309-38213.b\\z41471.D

Injection Date: 09-Mar-2016 13:05:30

Instrument ID: CBNAMS11

Operator ID:

Lims ID: std80

Worklist Smp#: 13

Client ID:

Injection Vol: 1.0 ul

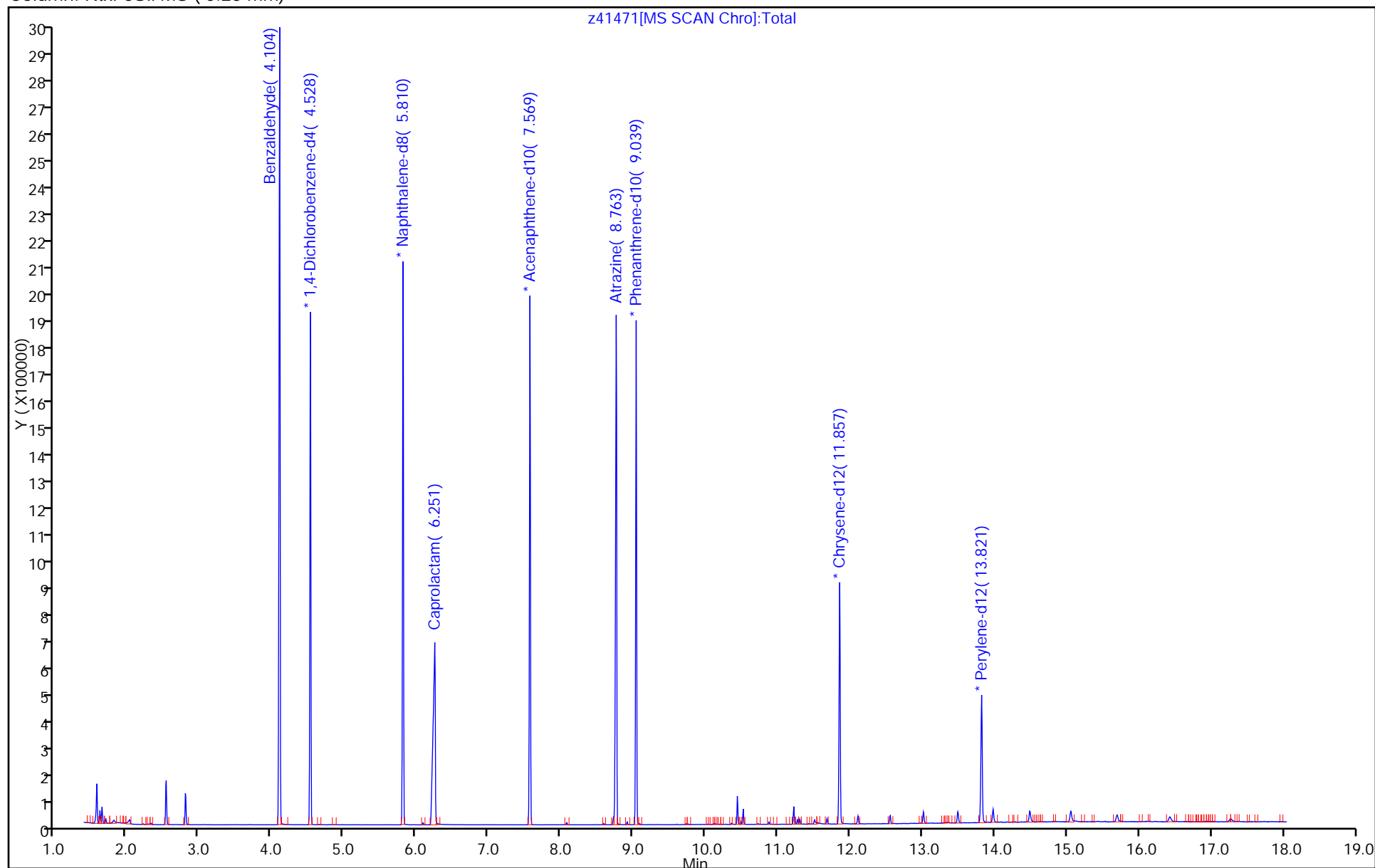
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 8270\_11R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS ( 0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41472.D  
 Lims ID: std20  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 09-Mar-2016 13:29:30 ALS Bottle#: 14 Worklist Smp#: 14  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038213-014  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Sublist: chrom-8270\_11R\_9\*sub13  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 09-Mar-2016 15:32:52 Calib Date: 09-Mar-2016 14:17:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41474.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK028

First Level Reviewer: szczech

Date: 09-Mar-2016 15:32:52

| Compound                    | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 5 Benzaldehyde              | 77  | 4.098        | 4.099            | -0.001           | 95  | 172777   | 20.0             | 20.6               |       |
| * 14 1,4-Dichlorobenzene-d4 | 152 | 4.528        | 4.528            | 0.000            | 99  | 283160   | 40.0             | 40.0               |       |
| * 38 Naphthalene-d8         | 136 | 5.810        | 5.810            | 0.000            | 100 | 902156   | 40.0             | 40.0               |       |
| 42 Caprolactam              | 113 | 6.222        | 6.240            | -0.018           | 89  | 36718    | 20.0             | 19.3               |       |
| * 65 Acenaphthene-d10       | 164 | 7.569        | 7.569            | 0.000            | 97  | 366800   | 40.0             | 40.0               |       |
| 83 Atrazine                 | 200 | 8.757        | 8.763            | -0.006           | 93  | 65966    | 20.0             | 21.3               |       |
| * 87 Phenanthrene-d10       | 188 | 9.039        | 9.039            | 0.000            | 99  | 587150   | 40.0             | 40.0               |       |
| * 102 Chrysene-d12          | 240 | 11.857       | 11.857           | 0.000            | 100 | 339253   | 40.0             | 40.0               |       |
| * 109 Perylene-d12          | 264 | 13.821       | 13.821           | 0.000            | 98  | 233012   | 40.0             | 40.0               |       |

**Reagents:**

SV\_IC-S\_L5\_00007

Amount Added: 1.00

Units: mL



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160309-38213.b\\z41472.D

Injection Date: 09-Mar-2016 13:29:30

Instrument ID: CBNAMS11

Operator ID:

Lims ID: std20

Worklist Smp#: 14

Client ID:

Injection Vol: 1.0 ul

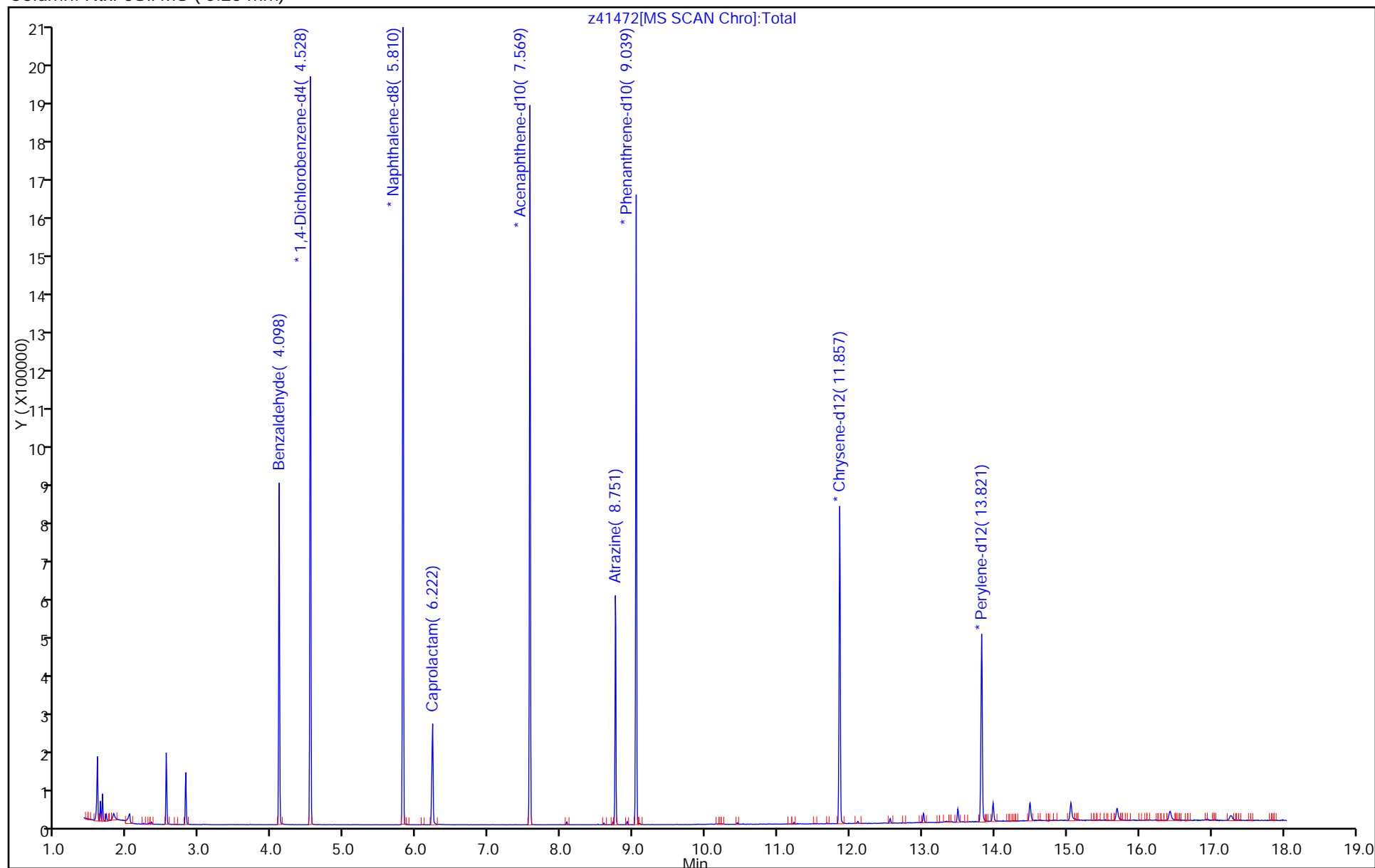
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: 8270\_11R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41473.D  
 Lims ID: std10  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 09-Mar-2016 13:53:30 ALS Bottle#: 15 Worklist Smp#: 15  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038213-015  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Sublist: chrom-8270\_11R\_9\*sub13  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 09-Mar-2016 15:39:57 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK028

First Level Reviewer: szczech

Date: 09-Mar-2016 15:39:57

| Compound                    | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 5 Benzaldehyde              | 77  | 4.098        | 4.099            | -0.001           | 95  | 80100    | 10.0             | 9.51               |       |
| * 14 1,4-Dichlorobenzene-d4 | 152 | 4.528        | 4.528            | 0.000            | 98  | 283871   | 40.0             | 40.0               |       |
| * 38 Naphthalene-d8         | 136 | 5.816        | 5.816            | 0.000            | 100 | 943730   | 40.0             | 40.0               |       |
| 42 Caprolactam              | 113 | 6.216        | 6.240            | -0.024           | 90  | 17684    | 10.0             | 8.88               |       |
| * 65 Acenaphthene-d10       | 164 | 7.569        | 7.575            | -0.006           | 97  | 402096   | 40.0             | 40.0               |       |
| 83 Atrazine                 | 200 | 8.751        | 8.763            | -0.012           | 92  | 34137    | 10.0             | 9.67               |       |
| * 87 Phenanthrene-d10       | 188 | 9.039        | 9.045            | -0.006           | 99  | 672158   | 40.0             | 40.0               |       |
| * 102 Chrysene-d12          | 240 | 11.857       | 11.863           | -0.006           | 99  | 365366   | 40.0             | 40.0               |       |
| * 109 Perylene-d12          | 264 | 13.821       | 13.821           | 0.000            | 98  | 223266   | 40.0             | 40.0               |       |

**Reagents:**

SV\_IC-S\_L4\_00019

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160309-38213.b\\z41473.D

Injection Date: 09-Mar-2016 13:53:30

Instrument ID: CBNAMS11

Operator ID:

Lims ID: std10

Worklist Smp#: 15

Client ID:

Injection Vol: 1.0 ul

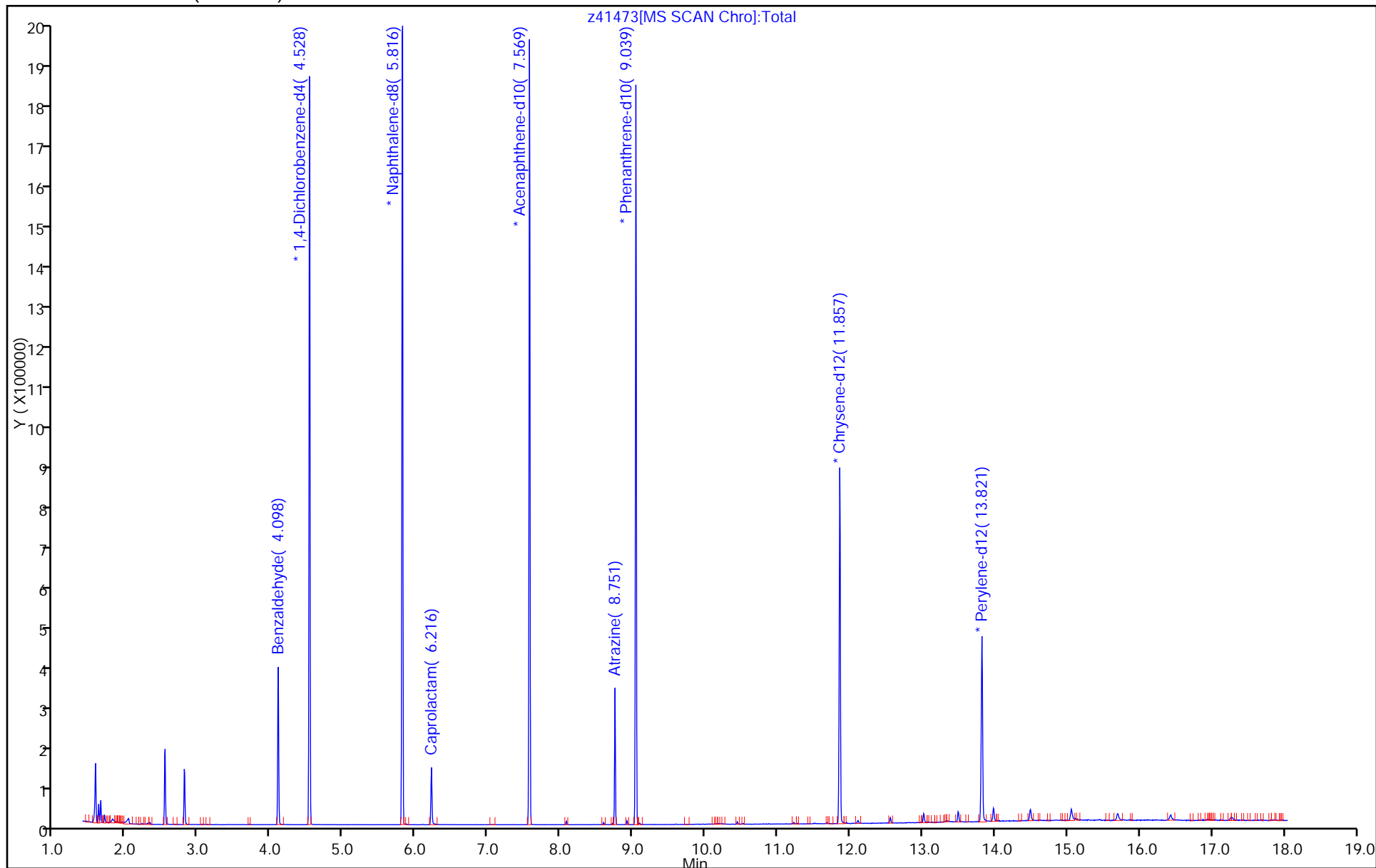
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: 8270\_11R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS ( 0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41474.D  
 Lims ID: std5  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 09-Mar-2016 14:17:30 ALS Bottle#: 16 Worklist Smp#: 16  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038213-016  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Sublist: chrom-8270\_11R\_9\*sub13  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 09-Mar-2016 15:33:26 Calib Date: 09-Mar-2016 14:17:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41474.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK028

First Level Reviewer: szczech

Date: 09-Mar-2016 15:33:25

| Compound                    | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 5 Benzaldehyde              | 77  | 4.098        | 4.099            | -0.001           | 94  | 51765    | 5.00             | 4.88               |       |
| * 14 1,4-Dichlorobenzene-d4 | 152 | 4.534        | 4.528            | 0.006            | 98  | 357346   | 40.0             | 40.0               |       |
| * 38 Naphthalene-d8         | 136 | 5.816        | 5.810            | 0.006            | 100 | 1171264  | 40.0             | 40.0               |       |
| 42 Caprolactam              | 113 | 6.216        | 6.240            | -0.024           | 89  | 10943    | 5.00             | 4.43               |       |
| * 65 Acenaphthene-d10       | 164 | 7.569        | 7.569            | 0.000            | 96  | 495354   | 40.0             | 40.0               |       |
| 83 Atrazine                 | 200 | 8.751        | 8.763            | -0.012           | 93  | 20409    | 5.00             | 4.70               |       |
| * 87 Phenanthrene-d10       | 188 | 9.039        | 9.039            | 0.000            | 99  | 824460   | 40.0             | 40.0               |       |
| * 102 Chrysene-d12          | 240 | 11.863       | 11.857           | 0.006            | 100 | 438786   | 40.0             | 40.0               |       |
| * 109 Perylene-d12          | 264 | 13.827       | 13.821           | 0.006            | 98  | 281390   | 40.0             | 40.0               |       |

**Reagents:**

SV\_IC-S\_L3\_00008

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160309-38213.b\\z41474.D

Injection Date: 09-Mar-2016 14:17:30

Instrument ID: CBNAMS11

Operator ID:

Lims ID: std5

Worklist Smp#: 16

Client ID:

Injection Vol: 1.0 ul

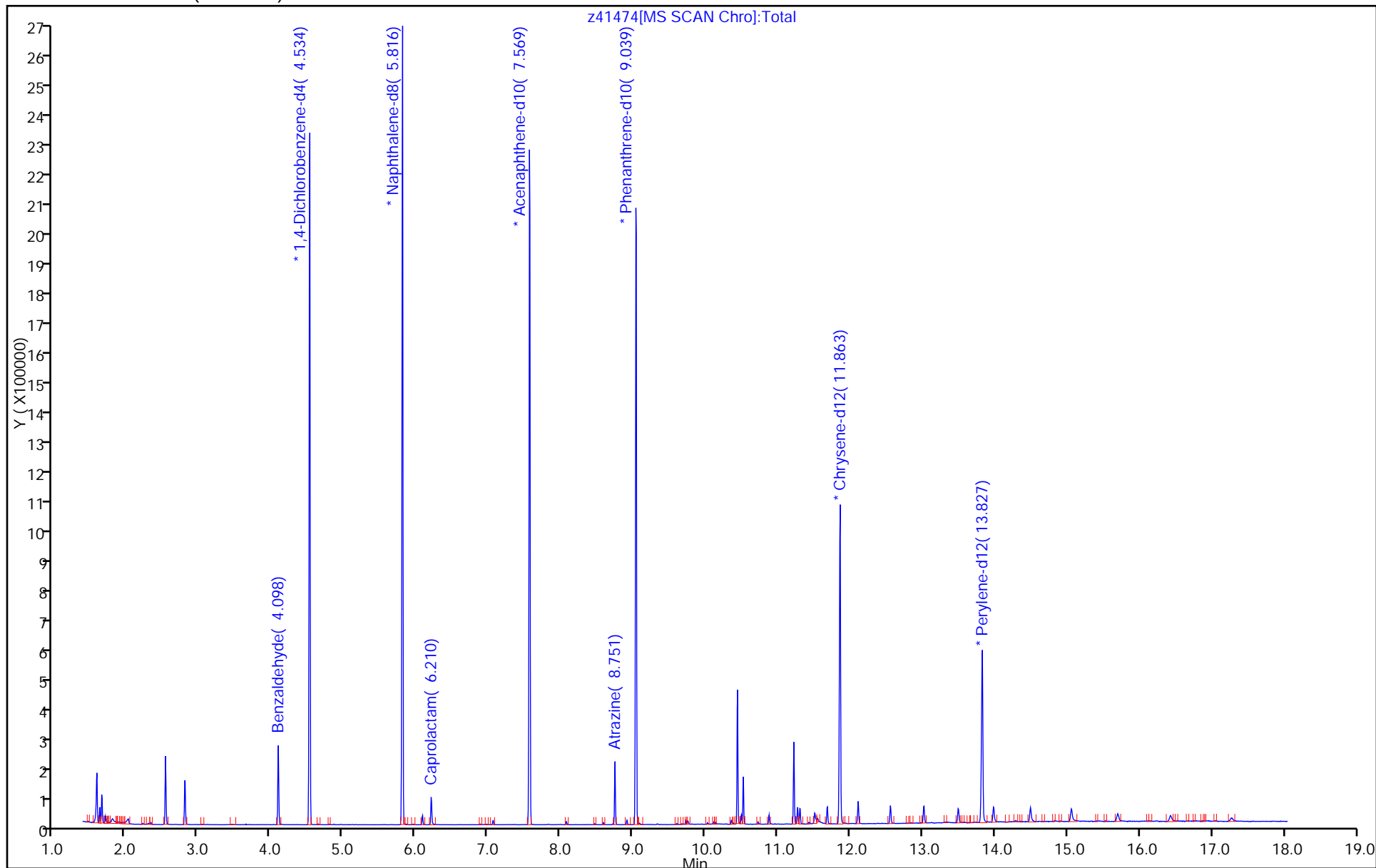
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: 8270\_11R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Lims ID: std2  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 09-Mar-2016 14:41:30 ALS Bottle#: 17 Worklist Smp#: 17  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038213-017  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Sublist: chrom-8270\_11R\_9\*sub13  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 09-Mar-2016 15:40:07 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK028

First Level Reviewer: szczech

Date: 09-Mar-2016 15:40:07

| Compound                    | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| * 14 1,4-Dichlorobenzene-d4 | 152 | 4.528        | 4.528            | 0.000            | 98  | 294351   | 40.0             | 40.0               |       |
| * 38 Naphthalene-d8         | 136 | 5.816        | 5.816            | 0.000            | 100 | 964920   | 40.0             | 40.0               |       |
| * 65 Acenaphthene-d10       | 164 | 7.569        | 7.575            | -0.006           | 97  | 414552   | 40.0             | 40.0               |       |
| 83 Atrazine                 | 200 | 8.751        | 8.763            | -0.012           | 92  | 7318     | 2.00             | 1.98               |       |
| * 87 Phenanthrene-d10       | 188 | 9.039        | 9.045            | -0.006           | 99  | 704766   | 40.0             | 40.0               |       |
| * 102 Chrysene-d12          | 240 | 11.863       | 11.863           | 0.000            | 99  | 376208   | 40.0             | 40.0               |       |
| * 109 Perylene-d12          | 264 | 13.827       | 13.821           | 0.006            | 99  | 235659   | 40.0             | 40.0               |       |

**Reagents:**

SV\_IC-S\_L2\_00007

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160309-38213.b\\z41475.D

Injection Date: 09-Mar-2016 14:41:30

Instrument ID: CBNAMS11

Operator ID:

Lims ID: std2

Worklist Smp#: 17

Client ID:

Injection Vol: 1.0 ul

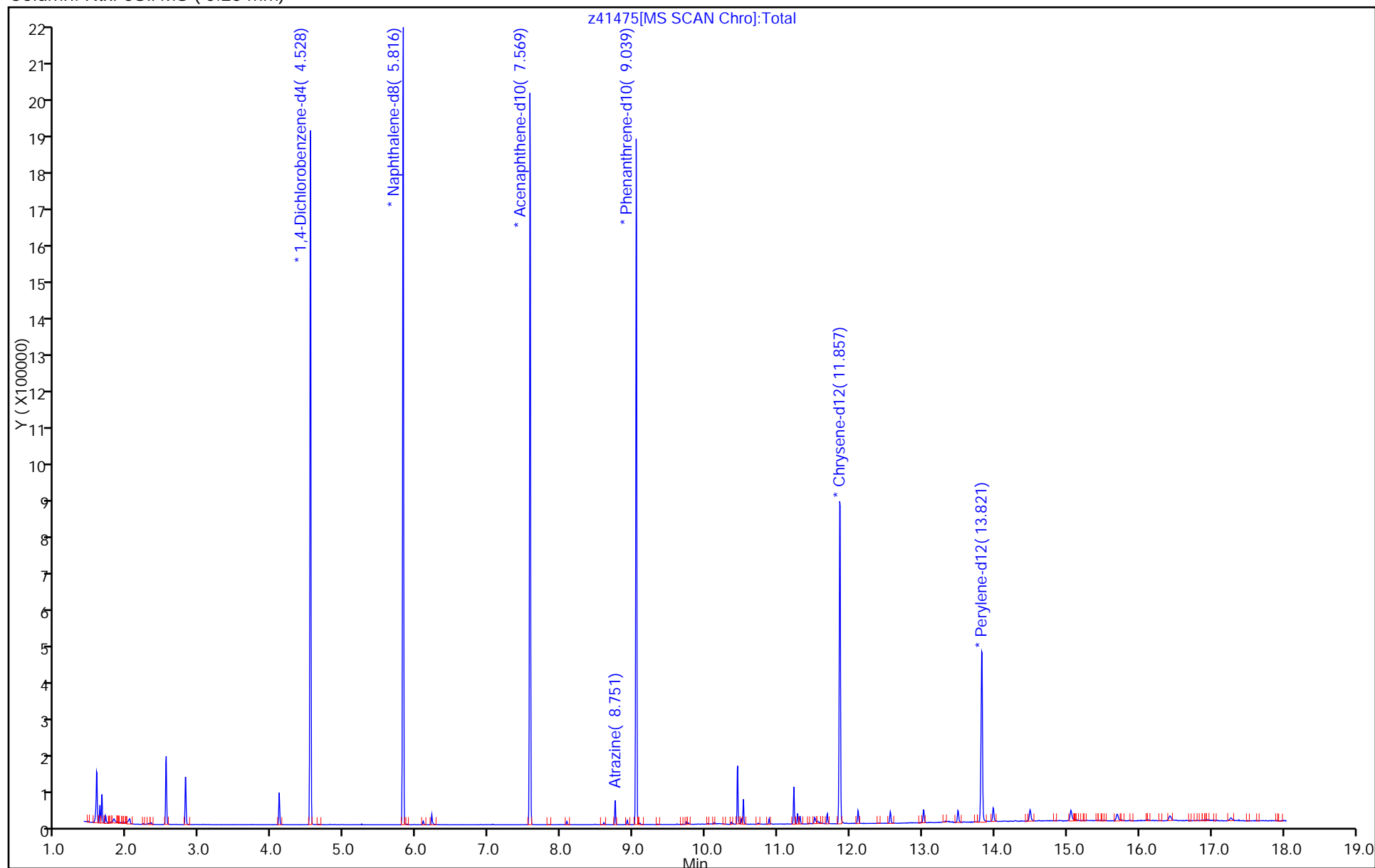
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: 8270\_11R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS ( 0.25 mm)



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

Lab Name: TestAmerica Edison Job No.: 460-109716-1 Analy Batch No.: 354301

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/06/2016 09:45 Calibration End Date: 03/06/2016 13:52 Calibration ID: 54752

Calibration Files:

|         |                     |              |
|---------|---------------------|--------------|
| LEVEL:  | LAB SAMPLE ID:      | LAB FILE ID: |
| Level 1 | STD05 460-354301/10 | L131122.D    |
| Level 2 | STD1 460-354301/9   | L131121.D    |
| Level 3 | STD2 460-354301/8   | L131120.D    |
| Level 4 | STD5 460-354301/7   | L131119.D    |
| Level 5 | STD10 460-354301/6  | L131118.D    |
| Level 6 | STD20 460-354301/5  | L131117.D    |
| Level 7 | ICIS 460-354301/2   | L131114.D    |
| Level 8 | STD80 460-354301/4  | L131116.D    |
| Level 9 | STD120 460-354301/3 | L131115.D    |

| 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            |        |            |             |        |    |   |         |      |   |          |            |   |                |
| 1,4-Dioxane             | 0.5612           | 0.5663           | 0.5406           | 0.6440<br>0.5675 | 0.6249 | Ave        |             | 0.5841 |    |   |         | 7.0  |   | 20.0     |            |   |                |
| N-Nitrosodimethylamine  | 0.7919           | 0.7703           | 0.7729           | 0.7340<br>0.8075 | 0.7528 | Ave        |             | 0.7716 |    |   |         | 3.4  |   | 20.0     |            |   |                |
| Pyridine                | 1.3453           | 1.3302           | 1.3295           | 1.3103<br>1.4111 | 1.3761 | Ave        |             | 1.3504 |    |   |         | 2.7  |   | 20.0     |            |   |                |
| Phenol                  | 1.6744           | 1.6474           | 1.6869           | 1.6824<br>1.6962 | 1.7037 | Ave        |             | 1.6818 |    |   | 0.8000  | 1.2  |   | 20.0     |            |   |                |
| Aniline                 | 1.9829           | 1.9638           | 1.9642           | 1.9261<br>1.9478 | 2.0309 | Ave        |             | 1.9693 |    |   |         | 1.8  |   | 20.0     |            |   |                |
| Bis(2-chloroethyl)ether | 1.3619<br>1.3794 | 1.4621<br>1.2984 | 1.4080<br>1.2764 | 1.3763<br>1.2930 | 1.3813 | Ave        |             | 1.3596 |    |   | 0.7000  | 4.4  |   | 20.0     |            |   |                |
| 2-Chlorophenol          | 1.4530           | 1.3815           | 1.3533           | 1.3867<br>1.3804 | 1.4464 | Ave        |             | 1.4002 |    |   | 0.8000  | 2.9  |   | 20.0     |            |   |                |
| n-Decane                | 2.4014           | 2.3064           | 2.2981           | 2.4776<br>2.4205 | 2.4753 | Ave        |             | 2.3966 |    |   |         | 3.3  |   | 20.0     |            |   |                |
| 1,3-Dichlorobenzene     | 1.6210           | 1.5345           | 1.5095           | 1.6582<br>1.5427 | 1.6432 | Ave        |             | 1.5849 |    |   |         | 4.0  |   | 20.0     |            |   |                |
| 1,4-Dichlorobenzene     | 1.5823           | 1.5203           | 1.5166           | 1.5756<br>1.5488 | 1.5805 | Ave        |             | 1.5540 |    |   |         | 1.9  |   | 20.0     |            |   |                |
| Benzyl alcohol          | 0.8596           | 0.8182           | 0.8340           | 0.8040<br>0.8359 | 0.8277 | Ave        |             | 0.8299 |    |   |         | 2.3  |   | 20.0     |            |   |                |
| 1,2-Dichlorobenzene     | 1.5296           | 1.4579           | 1.4397           | 1.5129<br>1.4544 | 1.5702 | Ave        |             | 1.4941 |    |   |         | 3.4  |   | 20.0     |            |   |                |
| 2-Methylphenol          | 1.2389           | 1.1800           | 1.1773           | 1.2070<br>1.1519 | 1.2479 | Ave        |             | 1.2005 |    |   | 0.7000  | 3.1  |   | 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.: 460-109716-1 Analy Batch No.: 354301  
SDG No.: \_\_\_\_\_  
Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 03/06/2016 09:45 Calibration End Date: 03/06/2016 13:52 Calibration ID: 54752

| ANALYTE                      | RRF              |                  |                  |                  |        | CURVE<br>TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|------------------------------|------------------|------------------|------------------|------------------|--------|---------------|-------------|--------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                              | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4<br>LVL 9   | LVL 5  |               | B           | M1     | M2 |   |         |      |   |             |               |   |                   |
| 2,2'-oxybis[1-chloropropane] | 2.9603           | 2.7628           | 2.7375           | 2.8739<br>2.7552 | 2.9282 | Ave           |             | 2.8363 |    |   | 0.0100  | 3.4  |   | 20.0        |               |   |                   |
| Acetophenone                 | 1.7220           | 1.6342           | 1.6493           | 1.7328<br>1.5880 | 1.7202 | Ave           |             | 1.6744 |    |   | 0.0100  | 3.5  |   | 20.0        |               |   |                   |
| N-Nitrosodi-n-propylamine    | 0.8536<br>0.8760 | 0.8424<br>0.8567 | 0.9339<br>0.8813 | 0.8581<br>0.8531 | 0.8702 | Ave           |             | 0.8695 |    |   | 0.5000  | 3.1  |   | 20.0        |               |   |                   |
| 3 & 4 Methylphenol           | 1.2873           | 1.2331           | 1.2266           | 1.3479<br>1.1305 | 1.3268 | Ave           |             | 1.2587 |    |   |         | 6.3  |   | 20.0        |               |   |                   |
| 4-Methylphenol               | 1.2873           | 1.2331           | 1.2266           | 1.3479<br>1.1305 | 1.3268 | Ave           |             | 1.2587 |    |   | 0.6000  | 6.3  |   | 20.0        |               |   |                   |
| Hexachloroethane             | 0.7313<br>0.6906 | 0.7139<br>0.6566 | 0.6739<br>0.6457 | 0.6776<br>0.6567 | 0.6760 | Ave           |             | 0.6803 |    |   | 0.3000  | 4.1  |   | 20.0        |               |   |                   |
| Nitrobenzene                 | 0.5219<br>0.5478 | 0.5274<br>0.5293 | 0.5810<br>0.5068 | 0.5608<br>0.5423 | 0.5753 | Ave           |             | 0.5436 |    |   | 0.2000  | 4.6  |   | 20.0        |               |   |                   |
| n,n'-Dimethylaniline         | 1.8638<br>1.8922 | 1.8042<br>1.8892 | 2.0056<br>1.7834 | 1.9220<br>1.7475 | 1.8785 | Ave           |             | 1.8651 |    |   |         | 4.2  |   | 20.0        |               |   |                   |
| Isophorone                   | 0.6623           | 0.6449           | 0.6815<br>0.6284 | 0.6501<br>0.6310 | 0.6690 | Ave           |             | 0.6525 |    |   | 0.4000  | 3.0  |   | 20.0        |               |   |                   |
| 2-Nitrophenol                | 0.2028           | 0.1967           | 0.1842<br>0.1953 | 0.1905<br>0.1953 | 0.1983 | Ave           |             | 0.1946 |    |   | 0.1000  | 3.3  |   | 20.0        |               |   |                   |
| 2,4-Dimethylphenol           | 0.3168           | 0.2986           | 0.3118<br>0.2976 | 0.2900<br>0.2976 | 0.3166 | Ave           |             | 0.3052 |    |   | 0.2000  | 3.7  |   | 20.0        |               |   |                   |
| Bis(2-chloroethoxy)methane   | 0.4410           | 0.4135           | 0.4300<br>0.4046 | 0.3981<br>0.4046 | 0.4297 | Ave           |             | 0.4195 |    |   | 0.3000  | 4.0  |   | 20.0        |               |   |                   |
| Benzoic acid                 | 0.1599           | 0.1717           | 0.0786<br>0.1987 | 0.1935<br>0.1987 | 0.1102 | Lin2          | -0.622      | 0.1926 |    |   | 0.0100  |      |   |             | 0.9930        |   | 0.9900            |
| 2,4-Dichlorophenol           | 0.3061           | 0.2972           | 0.2850<br>0.2857 | 0.2829<br>0.2869 | 0.3036 | Ave           |             | 0.2925 |    |   | 0.2000  | 3.3  |   | 20.0        |               |   |                   |
| 1,2,4-Trichlorobenzene       | 0.3176<br>0.3537 | 0.3322<br>0.3339 | 0.3672<br>0.3223 | 0.3493<br>0.3295 | 0.3540 | Ave           |             | 0.3400 |    |   |         | 4.9  |   | 20.0        |               |   |                   |
| Naphthalene                  | 1.0307           | 0.9919           | 1.0104<br>0.9749 | 1.0497<br>0.9749 | 1.0497 | Ave           |             | 1.0006 |    |   | 0.7000  | 3.8  |   | 20.0        |               |   |                   |
| 4-Chloroaniline              | 0.4223           | 0.4055           | 0.4014<br>0.3979 | 0.4008<br>0.3979 | 0.4334 | Ave           |             | 0.4102 |    |   | 0.0100  | 3.5  |   | 20.0        |               |   |                   |
| Hexachlorobutadiene          | 0.2217<br>0.2164 | 0.2225<br>0.2048 | 0.2073<br>0.1970 | 0.2073<br>0.2048 | 0.2199 | Ave           |             | 0.2118 |    |   | 0.0100  | 4.5  |   | 20.0        |               |   |                   |
| 4-Chloro-3-methylphenol      | 0.2937           | 0.2855           | 0.2741<br>0.2803 | 0.2861<br>0.2803 | 0.2902 | Ave           |             | 0.2850 |    |   | 0.2000  | 2.5  |   | 20.0        |               |   |                   |
| 2-Methylnaphthalene          | 0.6625           | 0.6413           | 0.6576<br>0.6192 | 0.6209<br>0.6192 | 0.6765 | Ave           |             | 0.6463 |    |   | 0.4000  | 3.6  |   | 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.: 460-109716-1 Analy Batch No.: 354301

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/06/2016 09:45 Calibration End Date: 03/06/2016 13:52 Calibration ID: 54752

| ANALYTE                        | RRF            |                  |                  |                  |        | CURVE<br>TYPE | COEFFICIENT |        |           | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|--------------------------------|----------------|------------------|------------------|------------------|--------|---------------|-------------|--------|-----------|---|---------|------|---|-------------|---------------|---|-------------------|
|                                | LVL 1<br>LVL 6 | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4<br>LVL 9   | LVL 5  |               | B           | M1     | M2        |   |         |      |   |             |               |   |                   |
| 1-Methylnaphthalene            | 0.5706         | 0.5563           | 0.5375           | 0.5603<br>0.5318 | 0.5931 | Ave           |             | 0.5583 |           |   |         | 4.0  |   | 20.0        |               |   |                   |
| Hexachlorocyclopentadiene      | 0.3654         | 0.3723           | 0.3660           | 0.3110<br>0.4015 | 0.3356 | Ave           |             | 0.3586 |           |   | 0.0500  | 8.7  |   | 20.0        |               |   |                   |
| 1,2,4,5-Tetrachlorobenzene     | 0.6367         | 0.5812           | 0.5638           | 0.6642<br>0.5761 | 0.6480 | Ave           |             | 0.6117 |           |   | 0.0100  | 7.0  |   | 20.0        |               |   |                   |
| 2-tertbutyl-4-methylphenol     | 0.4420         | 0.4417           | 0.4143           | 0.4244<br>0.4197 | 0.4467 | Ave           |             | 0.4315 |           |   |         | 3.2  |   | 20.0        |               |   |                   |
| 2,4,6-Trichlorophenol          | 0.4185         | 0.3933           | 0.3730<br>0.3851 | 0.3829<br>0.3937 | 0.4125 | Ave           |             | 0.3942 |           |   | 0.2000  | 4.1  |   | 20.0        |               |   |                   |
| 2,4,5-Trichlorophenol          | 0.4307         | 0.4201           | 0.4082           | 0.4164<br>0.4115 | 0.4283 | Ave           |             | 0.4192 |           |   | 0.2000  | 2.1  |   | 20.0        |               |   |                   |
| 1,1'-Biphenyl                  | 1.5378         | 1.4790           | 1.4136           | 1.5556<br>1.4206 | 1.5892 | Ave           |             | 1.4993 |           |   | 0.0100  | 4.9  |   | 20.0        |               |   |                   |
| 2-Chloronaphthalene            | 1.2299         | 1.1628           | 1.1423           | 1.2618<br>1.1600 | 1.2723 | Ave           |             | 1.2048 |           |   | 0.8000  | 4.7  |   | 20.0        |               |   |                   |
| Phenyl ether                   | 0.7948         | 0.7817           | 0.7296           | 0.8194<br>0.7527 | 0.8111 | Ave           |             | 0.7815 |           |   |         | 4.4  |   | 20.0        |               |   |                   |
| 2-Nitroaniline                 | 0.4583         | 0.4473           | 0.4514           | 0.4300<br>0.4676 | 0.4550 | Ave           |             | 0.4516 |           |   | 0.0100  | 2.8  |   | 20.0        |               |   |                   |
| 1,3-Dimethylnaphthalene        | 0.9949         | 0.9484           | 0.8318           | 0.9912<br>0.8584 | 0.9974 | Ave           |             | 0.9370 |           |   |         | 7.9  |   | 20.0        |               |   |                   |
| Dimethyl phthalate             | 1.2787         | 1.2104           | 1.2024           | 1.2312<br>1.1913 | 1.2581 | Ave           |             | 1.2287 |           |   | 0.0100  | 2.8  |   | 20.0        |               |   |                   |
| Coumarin                       | 0.2015         | 0.2037           | 0.1993           | 0.1828<br>0.1950 | 0.1929 | Ave           |             | 0.1959 |           |   |         | 3.8  |   | 20.0        |               |   |                   |
| 2,6-Dinitrotoluene             | 0.3024         | 0.2547<br>0.2894 | 0.2842<br>0.2854 | 0.2743<br>0.2895 | 0.2789 | Ave           |             | 0.2823 |           |   | 0.2000  | 4.9  |   | 20.0        |               |   |                   |
| Acenaphthylene                 | 1.8107         | 1.7030           | 1.6468           | 1.7888<br>1.6715 | 1.8426 | Ave           |             | 1.7439 |           |   | 0.9000  | 4.6  |   | 20.0        |               |   |                   |
| 3-Nitroaniline                 | 0.3156         | 0.3093           | 0.3042           | 0.2716<br>0.3064 | 0.2855 | Ave           |             | 0.2988 |           |   | 0.0100  | 5.6  |   | 20.0        |               |   |                   |
| 3,5-di-tert-butyl-4-hydroxytol | 1.0230         | 0.9930           | 0.9370           | 0.9978<br>0.9712 | 1.0021 | Ave           |             | 0.9874 |           |   |         | 3.0  |   | 20.0        |               |   |                   |
| Acenaphthene                   | 1.0821         | 1.0367           | 0.9923           | 1.0889<br>0.9872 | 1.1004 | Ave           |             | 1.0479 |           |   | 0.9000  | 4.8  |   | 20.0        |               |   |                   |
| 2,4-Dinitrophenol              | 0.1611         | 0.1711           | 0.0544<br>0.1828 | 0.0996<br>0.1916 | 0.1293 | Qua           | -0.625      | 0.1683 | 0.0001087 |   | 0.0100  |      |   |             | 1.0000        |   | 0.9900            |
| 4-Nitrophenol                  | 0.2352         | 0.2740           | 0.2588           | 0.2155<br>0.2844 | 0.2147 | Ave           |             | 0.2471 |           |   | 0.0100  | 12.1 |   | 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.: 460-109716-1 Analy Batch No.: 354301  
SDG No.: \_\_\_\_\_  
Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 03/06/2016 09:45 Calibration End Date: 03/06/2016 13:52 Calibration ID: 54752

| ANALYTE                     | RRF              |                  |                  |                  |        | CURVE<br>TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|-----------------------------|------------------|------------------|------------------|------------------|--------|---------------|-------------|--------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|                             | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4<br>LVL 9   | LVL 5  |               | B           | M1     | M2 |   |         |      |   |             |               |   |                   |
| 2,4-Dinitrotoluene          | 0.3727           | 0.2650<br>0.3817 | 0.3124<br>0.3673 | 0.3502<br>0.3645 | 0.3505 | Ave           |             | 0.3455 |    |   | 0.2000  | 11.2 |   | 20.0        |               |   |                   |
| Dibenzofuran                | 1.6308           | 1.5424           | 1.4996           | 1.6238<br>1.4938 | 1.6192 | Ave           |             | 1.5683 |    |   | 0.8000  | 4.1  |   | 20.0        |               |   |                   |
| 2,3,4,6-Tetrachlorophenol   | 0.3260           | 0.3232           | 0.3233           | 0.2917<br>0.3233 | 0.3077 | Ave           |             | 0.3159 |    |   | 0.0100  | 4.3  |   | 20.0        |               |   |                   |
| Diethyl phthalate           | 1.2842           | 1.2433           | 1.2218           | 1.1854<br>1.2270 | 1.2315 | Ave           |             | 1.2322 |    |   | 0.0100  | 2.6  |   | 20.0        |               |   |                   |
| 4-Chlorophenyl phenyl ether | 0.5828           | 0.5650           | 0.5348           | 0.5988<br>0.5329 | 0.5912 | Ave           |             | 0.5676 |    |   | 0.4000  | 5.0  |   | 20.0        |               |   |                   |
| Fluorene                    | 1.2629           | 1.1928           | 1.1668           | 1.2877<br>1.1665 | 1.2741 | Ave           |             | 1.2252 |    |   | 0.9000  | 4.6  |   | 20.0        |               |   |                   |
| 4-Nitroaniline              | 0.2745           | 0.2959           | 0.2914           | 0.2495<br>0.2717 | 0.2655 | Ave           |             | 0.2748 |    |   | 0.0100  | 6.2  |   | 20.0        |               |   |                   |
| 4,6-Dinitro-2-methylphenol  | 0.1522           | 0.1471           | 0.0869<br>0.1488 | 0.1141<br>0.1578 | 0.1329 | Lin2          | -0.277      | 0.1519 |    |   | 0.0100  |      |   |             | 0.9970        |   | 0.9900            |
| N-Nitrosodiphenylamine      | 0.5965           | 0.5538           | 0.6173<br>0.5439 | 0.5913<br>0.5563 | 0.6307 | Ave           |             | 0.5843 |    |   | 0.0100  | 5.8  |   | 20.0        |               |   |                   |
| 1,2-Diphenylhydrazine       | 0.9235           | 0.8699           | 0.8669           | 0.9267<br>0.9117 | 0.9636 | Ave           |             | 0.9104 |    |   |         | 4.1  |   | 20.0        |               |   |                   |
| 4-Bromophenyl phenyl ether  | 0.2356           | 0.2270           | 0.2252           | 0.2278<br>0.2307 | 0.2386 | Ave           |             | 0.2308 |    |   | 0.1000  | 2.3  |   | 20.0        |               |   |                   |
| Hexachlorobenzene           | 0.2938<br>0.2903 | 0.2979<br>0.2733 | 0.2760<br>0.2668 | 0.2737<br>0.2725 | 0.2902 | Ave           |             | 0.2816 |    |   | 0.1000  | 4.0  |   | 20.0        |               |   |                   |
| Pentachlorophenol           | 0.1642           | 0.1635           | 0.1039<br>0.1607 | 0.1357<br>0.1640 | 0.1511 | Ave           |             | 0.1490 |    |   | 0.0500  | 15.1 |   | 20.0        |               |   |                   |
| Pentachloronitrobenzene     | 0.1154           | 0.1157           | 0.0977           | 0.1113<br>0.1040 | 0.1127 | Ave           |             | 0.1094 |    |   | 0.0100  | 6.5  |   | 20.0        |               |   |                   |
| n-Octadecane                | 0.8020           | 0.7461           | 0.7595           | 0.7653<br>0.7835 | 0.8069 | Ave           |             | 0.7772 |    |   |         | 3.1  |   | 20.0        |               |   |                   |
| Phenanthrene                | 1.1740           | 1.1158           | 1.0905           | 1.1839<br>1.1230 | 1.1699 | Ave           |             | 1.1429 |    |   | 0.7000  | 3.3  |   | 20.0        |               |   |                   |
| Anthracene                  | 1.2018           | 1.1495           | 1.1061           | 1.1533<br>1.1474 | 1.2099 | Ave           |             | 1.1613 |    |   | 0.7000  | 3.3  |   | 20.0        |               |   |                   |
| Carbazole                   | 1.0326           | 1.0146           | 0.9596           | 0.9800<br>0.9793 | 1.0091 | Ave           |             | 0.9959 |    |   | 0.0100  | 2.7  |   | 20.0        |               |   |                   |
| Di-n-butyl phthalate        | 1.3103           | 1.3459           | 1.2735           | 1.2800<br>1.3004 | 1.2699 | Ave           |             | 1.2967 |    |   | 0.0100  | 2.2  |   | 20.0        |               |   |                   |
| Fluoranthene                | 1.1125           | 1.1568           | 1.0484           | 1.1012<br>1.0757 | 1.0978 | Ave           |             | 1.0987 |    |   | 0.6000  | 3.3  |   | 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.: 460-109716-1 Analy Batch No.: 354301  
SDG No.: \_\_\_\_\_  
Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 03/06/2016 09:45 Calibration End Date: 03/06/2016 13:52 Calibration ID: 54752

| ANALYTE                     | RRF              |                  |                  |                  |        | CURVE TYPE | COEFFICIENT |        |           | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|-----------------------------|------------------|------------------|------------------|------------------|--------|------------|-------------|--------|-----------|---|---------|------|---|----------|------------|---|----------------|
|                             | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3<br>LVL 8   | LVL 4<br>LVL 9   | LVL 5  |            | B           | M1     | M2        |   |         |      |   |          |            |   |                |
| Benzidine                   | 0.5805           | 0.6525           | 0.6772           | 0.5086<br>0.6510 | 0.5464 | QuaF       |             | 0.6562 | 0.0000024 |   |         |      |   |          | 0.9980     |   | 0.9900         |
| Pyrene                      | 1.6051           | 1.5616           | 1.4450           | 1.5258<br>1.5001 | 1.5495 | Ave        |             | 1.5312 |           |   | 0.6000  | 3.6  |   | 20.0     |            |   |                |
| Bisphenol-A                 | 0.6079           | 0.6053           | 0.6227           | 0.6185<br>0.6222 | 0.5947 | Ave        |             | 0.6119 |           |   |         | 1.8  |   | 20.0     |            |   |                |
| Butyl benzyl phthalate      | 0.6752           | 0.6738           | 0.6678           | 0.6159<br>0.7072 | 0.6218 | Ave        |             | 0.6603 |           |   | 0.0100  | 5.3  |   | 20.0     |            |   |                |
| 2,3,7,8-TCDD                |                  | 0.1469           |                  |                  |        | Ave        |             | 0.1469 |           |   |         |      |   | 20.0     |            |   |                |
| Carbamazepine               | 0.4590           | 0.5242           | 0.5482           | 0.3172<br>0.5761 | 0.4152 | Lin2       | -1.263      | 0.5556 |           |   | 0.0100  |      |   |          | 0.9970     |   | 0.9900         |
| 3,3'-Dichlorobenzidine      | 0.4490           | 0.4833           | 0.3118<br>0.5048 | 0.3721<br>0.4920 | 0.4086 | Ave        |             | 0.4317 |           |   | 0.0100  | 16.5 |   | 20.0     |            |   |                |
| Benzo[a]anthracene          | 1.2304<br>1.2564 | 1.2233<br>1.2206 | 1.2630<br>1.2138 | 1.2289<br>1.2581 | 1.2416 | Ave        |             | 1.2373 |           |   | 0.8000  | 1.5  |   | 20.0     |            |   |                |
| Bis(2-ethylhexyl) phthalate | 0.8809           | 0.8876           | 0.8887           | 0.7924<br>0.9444 | 0.8716 | Ave        |             | 0.8776 |           |   | 0.0100  | 5.6  |   | 20.0     |            |   |                |
| Chrysene                    | 1.1524           | 1.0835           | 1.0428           | 1.1255<br>1.0870 | 1.1177 | Ave        |             | 1.1015 |           |   | 0.7000  | 3.5  |   | 20.0     |            |   |                |
| Di-n-octyl phthalate        | 1.6249           | 1.6610           | 1.5573           | 1.3955<br>1.6671 | 1.5550 | Ave        |             | 1.5768 |           |   | 0.0100  | 6.4  |   | 20.0     |            |   |                |
| Benzo[b]fluoranthene        | 1.1436<br>1.2683 | 1.0708<br>1.2436 | 1.1602<br>1.1570 | 1.1333<br>1.2533 | 1.2020 | Ave        |             | 1.1813 |           |   | 0.7000  | 5.5  |   | 20.0     |            |   |                |
| Benzo[k]fluoranthene        | 1.2335<br>1.2324 | 1.2902<br>1.2204 | 1.2469<br>1.1924 | 1.2811<br>1.1874 | 1.2691 | Ave        |             | 1.2393 |           |   | 0.7000  | 2.9  |   | 20.0     |            |   |                |
| Benzo[a]pyrene              | 1.0178<br>1.1625 | 1.0300<br>1.1642 | 1.0890<br>1.1483 | 1.0549<br>1.1971 | 1.1536 | Ave        |             | 1.1130 |           |   | 0.7000  | 5.9  |   | 20.0     |            |   |                |
| Indeno[1,2,3-cd]pyrene      | 0.9047<br>1.1153 | 1.1262<br>1.0791 | 0.8842<br>1.1512 | 0.9187<br>1.2795 | 1.1134 | Ave        |             | 1.0636 |           |   | 0.5000  | 12.5 |   | 20.0     |            |   |                |
| Dibenz(a,h)anthracene       | 0.8349<br>1.1037 | 0.9201<br>1.0403 | 0.9221<br>1.0841 | 0.9805<br>1.1417 | 1.0677 | Ave        |             | 1.0106 |           |   | 0.4000  | 10.1 |   | 20.0     |            |   |                |
| Benzo[g,h,i]perylene        | 1.1215           | 1.0663           | 1.1564           | 0.9778<br>1.2201 | 1.0815 | Ave        |             | 1.1040 |           |   | 0.5000  | 7.5  |   | 20.0     |            |   |                |
| 2-Fluorophenol (Surr)       | 1.3334           | 1.0632<br>1.4090 | 1.3593<br>1.3317 | 1.3995<br>1.5729 | 1.3921 | Ave        |             | 1.3577 |           |   |         | 10.4 |   | 20.0     |            |   |                |
| Phenol-d5 (Surr)            | 1.6059           | 1.5403<br>1.6817 | 1.8670<br>1.6224 | 1.7109<br>1.8215 | 1.6708 | Ave        |             | 1.6901 |           |   |         | 6.5  |   | 20.0     |            |   |                |
| Nitrobenzene-d5 (Surr)      | 0.3918<br>0.4117 | 0.3966<br>0.4261 | 0.4728<br>0.4031 | 0.4262<br>0.4734 | 0.4256 | Ave        |             | 0.4253 |           |   |         | 7.0  |   | 20.0     |            |   |                |

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

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

Lab Name: TestAmerica Edison Job No.: 460-109716-1 Analy Batch No.: 354301  
SDG No.: \_\_\_\_\_  
Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 03/06/2016 09:45 Calibration End Date: 03/06/2016 13:52 Calibration ID: 54752

| ANALYTE                     | RRF              |                  |                  |                  |        | CURVE<br>TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>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            | 1.3984<br>1.3620 | 1.3418<br>1.4118 | 1.6558<br>1.2941 | 1.5250<br>1.4819 | 1.4546 | Ave           |             | 1.4362 |    |   |         | 7.6  |   | 20.0        |               |   |                   |
| 2,4,6-Tribromophenol (Surr) | 0.2087           | 0.1408<br>0.2227 | 0.2048<br>0.2146 | 0.1955<br>0.2430 | 0.2097 | Lin2          | -0.076      | 0.2228 |    |   | 0.0100  |      |   |             | 0.9950        |   | 0.9900            |
| Terphenyl-d14 (Surr)        | 0.9138<br>1.0518 | 0.8398<br>1.1201 | 1.1546<br>1.0138 | 1.1256<br>1.1747 | 1.0588 | Ave           |             | 1.0503 |    |   |         | 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  
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-109716-1 Analy Batch No.: 354301

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/06/2016 09:45 Calibration End Date: 03/06/2016 13:52 Calibration ID: 54752

Calibration Files:

| LEVEL:  | LAB SAMPLE ID:      | LAB FILE ID: |
|---------|---------------------|--------------|
| Level 1 | STD05 460-354301/10 | L131122.D    |
| Level 2 | STD1 460-354301/9   | L131121.D    |
| Level 3 | STD2 460-354301/8   | L131120.D    |
| Level 4 | STD5 460-354301/7   | L131119.D    |
| Level 5 | STD10 460-354301/6  | L131118.D    |
| Level 6 | STD20 460-354301/5  | L131117.D    |
| Level 7 | ICIS 460-354301/2   | L131114.D    |
| Level 8 | STD80 460-354301/4  | L131116.D    |
| Level 9 | STD120 460-354301/3 | L131115.D    |

| ANALYTE                      | IS REF | CURVE TYPE | RESPONSE       |                |                 |                 |       | CONCENTRATION (UG/ML) |                |                |                |       |
|------------------------------|--------|------------|----------------|----------------|-----------------|-----------------|-------|-----------------------|----------------|----------------|----------------|-------|
|                              |        |            | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8  | LVL 4<br>LVL 9  | LVL 5 | LVL 6                 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| 1,4-Dioxane                  | DCB    | Ave        | 38003          | 80462          | 115950          | 11473<br>201372 | 20452 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| N-Nitrosodimethylamine       | DCB    | Ave        | 53626          | 109447         | 165778          | 13078<br>286538 | 24639 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Pyridine                     | DCB    | Ave        | 91101          | 189010         | 285154          | 23345<br>500694 | 45039 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Phenol                       | DCB    | Ave        | 113390         | 234074         | 361819          | 29974<br>601888 | 55761 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Aniline                      | DCB    | Ave        | 134281         | 279028         | 421296          | 34316<br>691166 | 66472 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Bis(2-chloroethyl)ether      | DCB    | Ave        | 2149<br>93409  | 4655<br>184492 | 10808<br>273755 | 24521<br>458791 | 45210 | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| 2-Chlorophenol               | DCB    | Ave        | 98395          | 196287         | 290256          | 24707<br>489832 | 47340 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| n-Decane                     | DCB    | Ave        | 162615         | 327704         | 492907          | 44143<br>858894 | 81016 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 1,3-Dichlorobenzene          | DCB    | Ave        | 109773         | 218034         | 323758          | 29543<br>547422 | 53780 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 1,4-Dichlorobenzene          | DCB    | Ave        | 107149         | 216020         | 325292          | 28071<br>549580 | 51729 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Benzyl alcohol               | DCB    | Ave        | 58212          | 116261         | 178876          | 14324<br>296593 | 27089 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 1,2-Dichlorobenzene          | DCB    | Ave        | 103581         | 207143         | 308781          | 26955<br>516086 | 51392 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2-Methylphenol               | DCB    | Ave        | 83893          | 167665         | 252517          | 21504<br>408734 | 40844 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2,2'-oxybis[1-chloropropane] | DCB    | Ave        | 200465         | 392562         | 587140          | 51202<br>977636 | 95840 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |

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

Lab Name: TestAmerica Edison Job No.: 460-109716-1 Analy Batch No.: 354301

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/06/2016 09:45 Calibration End Date: 03/06/2016 13:52 Calibration ID: 54752

| ANALYTE                    | IS REF | CURVE TYPE | RESPONSE       |                |                 |                  |        | CONCENTRATION (UG/ML) |                |                |                |       |
|----------------------------|--------|------------|----------------|----------------|-----------------|------------------|--------|-----------------------|----------------|----------------|----------------|-------|
|                            |        |            | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8  | LVL 4<br>LVL 9   | LVL 5  | LVL 6                 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| Acetophenone               | DCB    | Ave        | 116608         | 232196         | 353750          | 30872<br>563481  | 56302  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| N-Nitrosodi-n-propylamine  | DCB    | Ave        | 1347<br>59320  | 2682<br>121727 | 7169<br>189017  | 15289<br>302702  | 28481  | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| 3 & 4 Methylphenol         | DCB    | Ave        | 87172          | 175213         | 263085          | 24014<br>401147  | 43426  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 4-Methylphenol             | DCB    | Ave        | 87172          | 175213         | 263085          | 24014<br>401147  | 43426  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Hexachloroethane           | DCB    | Ave        | 1154<br>46768  | 2273<br>93289  | 5173<br>138496  | 12073<br>233005  | 22125  | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Nitrobenzene               | NPT    | Ave        | 2938<br>129199 | 5744<br>265345 | 15989<br>397138 | 34163<br>657570  | 64067  | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| n,n'-Dimethylaniline       | DCB    | Ave        | 2941<br>128135 | 5744<br>268438 | 15395<br>382509 | 34243<br>620071  | 61482  | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Isophorone                 | NPT    | Ave        | 156204         | 323315         | 18755<br>492476 | 39600<br>765218  | 74499  | 20.0                  | 50.0           | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| 2-Nitrophenol              | NPT    | Ave        | 47822          | 98598          | 149324          | 11218<br>236806  | 22081  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2,4-Dimethylphenol         | NPT    | Ave        | 74712          | 149717         | 227273          | 18990<br>360898  | 35256  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Bis(2-chloroethoxy)methane | NPT    | Ave        | 104017         | 207292         | 311948          | 26190<br>490634  | 47850  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Benzoic acid               | NPT    | Lin2       | 37725          | 86095          | 151677          | 4790<br>240973   | 12276  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2,4-Dichlorophenol         | NPT    | Ave        | 72203          | 148982         | 7844<br>223872  | 17231<br>347935  | 33809  | 20.0                  | 50.0           | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| 1,2,4-Trichlorobenzene     | NPT    | Ave        | 1788<br>83421  | 3618<br>167386 | 10104<br>252583 | 21280<br>399613  | 39425  | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Naphthalene                | NPT    | Ave        | 243105         | 497281         | 741466          | 61545<br>1182220 | 116885 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 4-Chloroaniline            | NPT    | Ave        | 99609          | 203282         | 314119          | 24448<br>482473  | 48266  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Hexachlorobutadiene        | NPT    | Ave        | 51041          | 102655         | 2415<br>154346  | 6123<br>248325   | 24490  | 20.0                  | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| 4-Chloro-3-methylphenol    | NPT    | Ave        | 69278          | 143108         | 224168          | 16695<br>339908  | 32313  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2-Methylnaphthalene        | NPT    | Ave        | 156259         | 321509         | 486561          | 40058<br>750862  | 75335  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 1-Methylnaphthalene        | NPT    | Ave        | 134591         | 278888         | 421223          | 34131<br>644870  | 66041  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Hexachlorocyclopentadiene  | ANT    | Ave        | 42457          | 94714          | 146277          | 9092<br>238724   | 18292  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |

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

Lab Name: TestAmerica Edison Job No.: 460-109716-1 Analy Batch No.: 354301

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/06/2016 09:45 Calibration End Date: 03/06/2016 13:52 Calibration ID: 54752

| ANALYTE                        | IS REF | CURVE TYPE | RESPONSE       |                |                |                 |        | CONCENTRATION (UG/ML) |                |                |                |       |
|--------------------------------|--------|------------|----------------|----------------|----------------|-----------------|--------|-----------------------|----------------|----------------|----------------|-------|
|                                |        |            | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9  | LVL 5  | LVL 6                 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| 1,2,4,5-Tetrachlorobenzene     | ANT    | Ave        | 73984          | 147833         | 225323         | 19414<br>342511 | 35323  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2-tertbutyl-4-methylphenol     | NPT    | Ave        | 104244         | 221434         | 324666         | 25850<br>508919 | 49745  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2,4,6-Trichlorophenol          | ANT    | Ave        | 48633          | 100047         | 5013<br>153918 | 11194<br>234088 | 22483  | 20.0                  | 50.0           | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| 2,4,5-Trichlorophenol          | ANT    | Ave        | 50045          | 106858         | 163150         | 12173<br>244656 | 23349  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 1,1'-Biphenyl                  | ANT    | Ave        | 178686         | 376232         | 564920         | 45473<br>844653 | 86625  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2-Chloronaphthalene            | ANT    | Ave        | 142912         | 295790         | 456512         | 36884<br>689665 | 69350  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Phenyl ether                   | ANT    | Ave        | 92349          | 198852         | 291570         | 23951<br>447538 | 44212  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2-Nitroaniline                 | ANT    | Ave        | 53248          | 113778         | 180395         | 12568<br>278010 | 24801  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 1,3-Dimethylnaphthalene        | ANT    | Ave        | 115602         | 241265         | 332405         | 28975<br>510339 | 54367  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Dimethyl phthalate             | ANT    | Ave        | 148582         | 307911         | 480512         | 35989<br>708316 | 68576  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Coumarin                       | NPT    | Ave        | 47515          | 102106         | 156191         | 11137<br>236516 | 21477  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2,6-Dinitrotoluene             | ANT    | Ave        | 35133          | 1333<br>73619  | 3819<br>114052 | 8017<br>172112  | 15205  | 20.0                  | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Acenaphthylene                 | ANT    | Ave        | 210398         | 433219         | 658151         | 52290<br>993781 | 100440 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 3-Nitroaniline                 | ANT    | Ave        | 36669          | 78689          | 121559         | 7940<br>182185  | 15563  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 3,5-di-tert-butyl-4-hydroxytol | ANT    | Ave        | 118871         | 252611         | 374484         | 29168<br>577433 | 54622  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Acenaphthene                   | ANT    | Ave        | 125737         | 263710         | 396560         | 31829<br>586945 | 59981  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2,4-Dinitrophenol              | ANT    | Qua        | 37447          | 87050          | 1462<br>146084 | 5821<br>227798  | 14100  | 40.0                  | 100            | 4.00<br>160    | 10.0<br>240    | 20.0  |
| 4-Nitrophenol                  | ANT    | Ave        | 54668          | 139404         | 206830         | 12597<br>338237 | 23409  | 40.0                  | 100            | 160            | 10.0<br>240    | 20.0  |
| 2,4-Dinitrotoluene             | ANT    | Ave        | 43303          | 1387<br>97103  | 4199<br>146789 | 10237<br>216711 | 19107  | 20.0                  | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Dibenzofuran                   | ANT    | Ave        | 189491         | 392343         | 599294         | 47466<br>888160 | 88262  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2,3,4,6-Tetrachlorophenol      | ANT    | Ave        | 37874          | 82207          | 129191         | 8528<br>192240  | 16772  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |



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

Lab Name: TestAmerica Edison Job No.: 460-109716-1 Analy Batch No.: 354301

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/06/2016 09:45 Calibration End Date: 03/06/2016 13:52 Calibration ID: 54752

| ANALYTE                     | IS REF | CURVE TYPE | RESPONSE       |                |                |                  |       | CONCENTRATION (UG/ML) |                |                |                |       |
|-----------------------------|--------|------------|----------------|----------------|----------------|------------------|-------|-----------------------|----------------|----------------|----------------|-------|
|                             |        |            | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9   | LVL 5 | LVL 6                 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| Diethyl phthalate           | ANT    | Ave        | 149222         | 316271         | 488268         | 34651<br>729504  | 67126 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 4-Chlorophenyl phenyl ether | ANT    | Ave        | 67723          | 143719         | 213726         | 17503<br>316839  | 32228 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Fluorene                    | ANT    | Ave        | 146748         | 303433         | 466315         | 37642<br>693545  | 69450 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 4-Nitroaniline              | ANT    | Ave        | 31896          | 75275          | 116465         | 7294<br>161555   | 14471 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 4,6-Dinitro-2-methylphenol  | PHN    | Lin2       | 50811          | 111938         | 176450         | 3345<br>269636   | 19996 | 40.0                  | 100            | 4.00<br>160    | 10.0<br>240    | 20.0  |
| N-Nitrosodiphenylamine      | PHN    | Ave        | 199148         | 421388         | 645107         | 23758<br>950604  | 94917 | 40.0                  | 100            | 4.00<br>160    | 10.0<br>240    | 20.0  |
| 1,2-Diphenylhydrazine       | PHN    | Ave        | 154158         | 330908         | 514159         | 38753<br>778955  | 72509 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 4-Bromophenyl phenyl ether  | PHN    | Ave        | 39321          | 86337          | 133587         | 9527<br>197152   | 17953 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Hexachlorobenzene           | PHN    | Ave        | 1171<br>48462  | 2248<br>103956 | 5311<br>158223 | 11446<br>232836  | 21836 | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Pentachlorophenol           | PHN    | Ave        | 54834          | 124421         | 190576         | 3999<br>280292   | 22735 | 40.0                  | 100            | 4.00<br>160    | 10.0<br>240    | 20.0  |
| Pentachloronitrobenzene     | PHN    | Ave        | 19260          | 43996          | 57929          | 4655<br>88863    | 8477  | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| n-Octadecane                | PHN    | Ave        | 133877         | 283825         | 450445         | 32003<br>669473  | 60719 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Phenanthrene                | PHN    | Ave        | 195972         | 424457         | 646791         | 49512<br>959515  | 88036 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Anthracene                  | PHN    | Ave        | 200610         | 437307         | 656041         | 48230<br>980400  | 91043 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Carbazole                   | PHN    | Ave        | 172375         | 385962         | 569141         | 40984<br>836779  | 75936 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Di-n-butyl phthalate        | PHN    | Ave        | 218720         | 512014         | 755326         | 53528<br>1111096 | 95556 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Fluoranthene                | PHN    | Ave        | 185698         | 440061         | 621813         | 46054<br>919159  | 82606 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Benzidine                   | PHN    | QuaF       | 96907          | 248204         | 401647         | 21270<br>556241  | 41120 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Pyrene                      | CRY    | Ave        | 188270         | 450834         | 637357         | 47924<br>943010  | 85963 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Bisphenol-A                 | CRY    | Ave        | 71302          | 174757         | 274678         | 19426<br>391123  | 32993 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Butyl benzyl phthalate      | CRY    | Ave        | 79196          | 194518         | 294540         | 19344<br>444586  | 34498 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |

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

Lab Name: TestAmerica Edison Job No.: 460-109716-1 Analy Batch No.: 354301

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/06/2016 09:45 Calibration End Date: 03/06/2016 13:52 Calibration ID: 54752

| ANALYTE                     | IS REF | CURVE TYPE | RESPONSE       |                |                 |                  |       | CONCENTRATION (UG/ML) |                |                |                |       |
|-----------------------------|--------|------------|----------------|----------------|-----------------|------------------|-------|-----------------------|----------------|----------------|----------------|-------|
|                             |        |            | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8  | LVL 4<br>LVL 9   | LVL 5 | LVL 6                 | LVL 2<br>LVL 7 | LVL 3<br>LVL 8 | LVL 4<br>LVL 9 | LVL 5 |
| 2,3,7,8-TCDD                | CRY    | Ave        |                | 424            |                 |                  |       |                       | 0.500          |                |                |       |
| Carbamazepine               | CRY    | Lin2       | 53836          | 151352         | 241816          | 362132           | 23034 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 3,3'-Dichlorobenzidine      | CRY    | Ave        | 52667          | 139523         | 4092<br>222678  | 11688<br>309281  | 22667 | 20.0                  | 50.0           | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Benzo[a]anthracene          | CRY    | Ave        | 3598<br>147362 | 7152<br>352388 | 16577<br>535388 | 38599<br>790856  | 68883 | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Bis(2-ethylhexyl) phthalate | CRY    | Ave        | 103322         | 256253         | 392010          | 24889<br>593701  | 48352 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Chrysene                    | CRY    | Ave        | 135168         | 312825         | 459961          | 35352<br>683333  | 62008 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Di-n-octyl phthalate        | PRY    | Ave        | 165995         | 429487         | 677688          | 35594<br>1012008 | 77148 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| Benzo[b]fluoranthene        | PRY    | Ave        | 2800<br>129558 | 5045<br>321549 | 12147<br>503490 | 28904<br>760777  | 59635 | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Benzo[k]fluoranthene        | PRY    | Ave        | 3020<br>125891 | 6079<br>315570 | 13054<br>518894 | 32675<br>720809  | 62964 | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Benzo[a]pyrene              | PRY    | Ave        | 2492<br>118750 | 4853<br>301031 | 11401<br>499696 | 26905<br>726688  | 57233 | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Indeno[1,2,3-cd]pyrene      | PRY    | Ave        | 2215<br>113934 | 5306<br>279011 | 9257<br>500975  | 23431<br>776676  | 55236 | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Dibenz(a,h)anthracene       | PRY    | Ave        | 2044<br>112744 | 4335<br>268997 | 9654<br>471780  | 25009<br>693034  | 52972 | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Benzo[g,h,i]perylene        | PRY    | Ave        | 114571         | 275724         | 503219          | 24939<br>740668  | 53655 | 20.0                  | 50.0           | 80.0           | 5.00<br>120    | 10.0  |
| 2-Fluorophenol (Surr)       | DCB    | Ave        | 90295          | 3385<br>200208 | 10434<br>285627 | 24935<br>558122  | 45564 | 20.0                  | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Phenol-d5 (Surr)            | DCB    | Ave        | 108746         | 4904<br>238946 | 14331<br>347979 | 30482<br>646342  | 54685 | 20.0                  | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Nitrobenzene-d5 (Surr)      | NPT    | Ave        | 2206<br>97114  | 4320<br>213627 | 13010<br>315873 | 25962<br>574101  | 47395 | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| 2-Fluorobiphenyl            | ANT    | Ave        | 3808<br>158262 | 7022<br>359126 | 22253<br>517195 | 44579<br>881105  | 79290 | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| 2,4,6-Tribromophenol (Surr) | ANT    | Lin2       | 737<br>24250   | 2753<br>56648  | 5716<br>85763   | 11428<br>144497  |       | 20.0                  | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |
| Terphenyl-d14 (Surr)        | CRY    | Ave        | 2672<br>123370 | 4910<br>323391 | 15155<br>447195 | 35355<br>738413  | 58741 | 0.500<br>20.0         | 1.00<br>50.0   | 2.00<br>80.0   | 5.00<br>120    | 10.0  |

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

Lab Name: TestAmerica Edison Job No.: 460-109716-1 Analy Batch No.: 354301  
SDG No.: \_\_\_\_\_  
Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N  
Calibration Start Date: 03/06/2016 09:45 Calibration End Date: 03/06/2016 13:52 Calibration ID: 54752

Curve Type Legend:

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

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131114.D  
 Lims ID: ICIS  
 Client ID:  
 Sample Type: ICIS Calib Level: 7  
 Inject. Date: 06-Mar-2016 09:45:30 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038072-002  
 Operator ID: Instrument ID: CBNAMS12  
 Sublist: chrom-8270\_12R\_9\*sub18  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 06-Mar-2016 22:32:09 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK012

First Level Reviewer: bayoumiw

Date: 06-Mar-2016 11:07:27

| Compound                      | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-------------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| 1 1,4-Dioxane                 | 88  | 1.599        | 1.599            | 0.000            | 95 | 80462    | 50.0             | 48.5               |       |
| 2 N-Nitrosodimethylamine      | 74  | 1.828        | 1.828            | 0.000            | 73 | 109447   | 50.0             | 49.9               |       |
| 3 Pyridine                    | 79  | 1.857        | 1.857            | 0.000            | 76 | 189010   | 50.0             | 49.3               |       |
| \$ 4 2-Fluorophenol           | 112 | 2.999        | 2.999            | 0.000            | 93 | 200208   | 50.0             | 51.9               |       |
| \$ 6 Phenol-d5                | 99  | 3.922        | 3.922            | 0.000            | 86 | 238946   | 50.0             | 49.8               |       |
| 7 Phenol                      | 94  | 3.940        | 3.940            | 0.000            | 97 | 234074   | 50.0             | 49.0               |       |
| 8 Aniline                     | 93  | 3.963        | 3.963            | 0.000            | 98 | 279028   | 50.0             | 49.9               |       |
| 9 Bis(2-chloroethyl)ether     | 93  | 4.022        | 4.022            | 0.000            | 92 | 184492   | 50.0             | 47.7               |       |
| 10 2-Chlorophenol             | 128 | 4.087        | 4.087            | 0.000            | 93 | 196287   | 50.0             | 49.3               |       |
| 11 n-Decane                   | 43  | 4.140        | 4.140            | 0.000            | 96 | 327704   | 50.0             | 48.1               |       |
| 12 1,3-Dichlorobenzene        | 146 | 4.240        | 4.240            | 0.000            | 94 | 218034   | 50.0             | 48.4               |       |
| * 13 1,4-Dichlorobenzene-d4   | 152 | 4.293        | 4.293            | 0.000            | 97 | 113670   | 40.0             | 40.0               |       |
| 14 1,4-Dichlorobenzene        | 146 | 4.310        | 4.310            | 0.000            | 92 | 216020   | 50.0             | 48.9               |       |
| 15 Benzyl alcohol             | 108 | 4.428        | 4.428            | 0.000            | 90 | 116261   | 50.0             | 49.3               |       |
| 16 1,2-Dichlorobenzene        | 146 | 4.469        | 4.469            | 0.000            | 94 | 207143   | 50.0             | 48.8               |       |
| 17 2-Methylphenol             | 108 | 4.546        | 4.546            | 0.000            | 88 | 167665   | 50.0             | 49.1               |       |
| 18 2,2'-oxybis[1-chloropropan | 45  | 4.575        | 4.575            | 0.000            | 92 | 392562   | 50.0             | 48.7               |       |
| 22 Acetophenone               | 105 | 4.698        | 4.698            | 0.000            | 86 | 232196   | 50.0             | 48.8               |       |
| 19 4-Methylphenol             | 108 | 4.704        | 4.704            | 0.000            | 77 | 175213   | 50.0             | 49.0               |       |
| 20 3 & 4 Methylphenol         | 108 | 4.704        | 4.704            | 0.000            | 78 | 175213   | 50.0             | 49.0               |       |
| 21 N-Nitrosodi-n-propylamine  | 70  | 4.704        | 4.704            | 0.000            | 95 | 121727   | 50.0             | 49.3               |       |
| 25 Hexachloroethane           | 117 | 4.810        | 4.810            | 0.000            | 95 | 93289    | 50.0             | 48.3               |       |
| \$ 26 Nitrobenzene-d5         | 82  | 4.851        | 4.851            | 0.000            | 93 | 213627   | 50.0             | 50.1               |       |
| 27 Nitrobenzene               | 77  | 4.875        | 4.875            | 0.000            | 87 | 265345   | 50.0             | 48.7               |       |
| 28 n,n'-Dimethylaniline       | 120 | 4.881        | 4.881            | 0.000            | 93 | 268438   | 50.0             | 50.6               |       |
| 29 Isophorone                 | 82  | 5.110        | 5.110            | 0.000            | 98 | 323315   | 50.0             | 49.4               |       |
| 30 2-Nitrophenol              | 139 | 5.193        | 5.193            | 0.000            | 85 | 98598    | 50.0             | 50.5               |       |
| 31 2,4-Dimethylphenol         | 122 | 5.240        | 5.240            | 0.000            | 88 | 149717   | 50.0             | 48.9               |       |
| 32 Bis(2-chloroethoxy)methane | 93  | 5.334        | 5.334            | 0.000            | 95 | 207292   | 50.0             | 49.3               |       |
| 33 Benzoic acid               | 122 | 5.357        | 5.357            | 0.000            | 89 | 86095    | 50.0             | 47.8               |       |
| 34 2,4-Dichlorophenol         | 162 | 5.440        | 5.440            | 0.000            | 94 | 148982   | 50.0             | 50.8               |       |

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|---------------|-----------------|-------|
| 35 1,2,4-Trichlorobenzene     | 180 | 5.522     | 5.522         | 0.000         | 94  | 167386   | 50.0          | 49.1            |       |
| * 36 Naphthalene-d8           | 136 | 5.581     | 5.581         | 0.000         | 100 | 401071   | 40.0          | 40.0            |       |
| 37 Naphthalene                | 128 | 5.598     | 5.598         | 0.000         | 99  | 497281   | 50.0          | 49.6            |       |
| 38 4-Chloroaniline            | 127 | 5.651     | 5.651         | 0.000         | 96  | 203282   | 50.0          | 49.4            |       |
| 39 Hexachlorobutadiene        | 225 | 5.740     | 5.740         | 0.000         | 96  | 102655   | 50.0          | 48.3            |       |
| 41 4-Chloro-3-methylphenol    | 107 | 6.145     | 6.145         | 0.000         | 98  | 143108   | 50.0          | 50.1            |       |
| 42 2-Methylnaphthalene        | 142 | 6.293     | 6.293         | 0.000         | 84  | 321509   | 50.0          | 49.6            |       |
| 43 1-Methylnaphthalene        | 142 | 6.392     | 6.392         | 0.000         | 93  | 278888   | 50.0          | 49.8            |       |
| 44 Hexachlorocyclopentadiene  | 237 | 6.463     | 6.463         | 0.000         | 85  | 94714    | 50.0          | 51.9            |       |
| 45 1,2,4,5-Tetrachlorobenzene | 216 | 6.463     | 6.463         | 0.000         | 97  | 147833   | 50.0          | 47.5            |       |
| 46 2-tertbutyl-4-methylphenol | 149 | 6.498     | 6.498         | 0.000         | 89  | 221434   | 50.0          | 51.2            |       |
| 48 2,4,6-Trichlorophenol      | 196 | 6.575     | 6.575         | 0.000         | 88  | 100047   | 50.0          | 49.9            |       |
| 49 2,4,5-Trichlorophenol      | 196 | 6.610     | 6.610         | 0.000         | 96  | 106858   | 50.0          | 50.1            |       |
| \$ 50 2-Fluorobiphenyl        | 172 | 6.663     | 6.663         | 0.000         | 97  | 359126   | 50.0          | 49.2            |       |
| 51 1,1'-Biphenyl              | 154 | 6.757     | 6.757         | 0.000         | 96  | 376232   | 50.0          | 49.3            |       |
| 52 2-Chloronaphthalene        | 162 | 6.775     | 6.775         | 0.000         | 98  | 295790   | 50.0          | 48.3            |       |
| 53 Phenyl ether               | 170 | 6.863     | 6.863         | 0.000         | 91  | 198852   | 50.0          | 50.0            |       |
| 54 2-Nitroaniline             | 65  | 6.875     | 6.875         | 0.000         | 96  | 113778   | 50.0          | 49.5            |       |
| 55 1,3-Dimethylnaphthalene    | 156 | 6.992     | 6.992         | 0.000         | 91  | 241265   | 50.0          | 50.6            |       |
| 58 Dimethyl phthalate         | 163 | 7.063     | 7.063         | 0.000         | 98  | 307911   | 50.0          | 49.3            |       |
| 59 Coumarin                   | 146 | 7.081     | 7.081         | 0.000         | 78  | 102106   | 50.0          | 52.0            |       |
| 60 2,6-Dinitrotoluene         | 165 | 7.116     | 7.116         | 0.000         | 93  | 73619    | 50.0          | 51.3            |       |
| 61 Acenaphthylene             | 152 | 7.187     | 7.187         | 0.000         | 97  | 433219   | 50.0          | 48.8            |       |
| 62 3-Nitroaniline             | 138 | 7.281     | 7.281         | 0.000         | 93  | 78689    | 50.0          | 51.8            |       |
| * 63 Acenaphthene-d10         | 164 | 7.328     | 7.328         | 0.000         | 93  | 203504   | 40.0          | 40.0            |       |
| 64 3,5-di-tert-butyl-4-hydrox | 205 | 7.357     | 7.357         | 0.000         | 98  | 252611   | 50.0          | 50.3            |       |
| 65 Acenaphthene               | 154 | 7.363     | 7.363         | 0.000         | 95  | 263710   | 50.0          | 49.5            |       |
| 66 2,4-Dinitrophenol          | 184 | 7.387     | 7.387         | 0.000         | 93  | 87050    | 100.0         | 99.1            |       |
| 67 4-Nitrophenol              | 65  | 7.457     | 7.457         | 0.000         | 90  | 139404   | 100.0         | 110.9           |       |
| 68 2,4-Dinitrotoluene         | 165 | 7.510     | 7.510         | 0.000         | 95  | 97103    | 50.0          | 55.2            |       |
| 69 Dibenzofuran               | 168 | 7.528     | 7.528         | 0.000         | 96  | 392343   | 50.0          | 49.2            |       |
| 70 2,3,4,6-Tetrachlorophenol  | 232 | 7.651     | 7.651         | 0.000         | 93  | 82207    | 50.0          | 51.2            |       |
| 71 Diethyl phthalate          | 149 | 7.763     | 7.763         | 0.000         | 97  | 316271   | 50.0          | 50.5            |       |
| 73 4-Chlorophenyl phenyl ethe | 204 | 7.863     | 7.863         | 0.000         | 83  | 143719   | 50.0          | 49.8            |       |
| 74 Fluorene                   | 166 | 7.869     | 7.869         | 0.000         | 95  | 303433   | 50.0          | 48.7            |       |
| 75 4-Nitroaniline             | 138 | 7.887     | 7.887         | 0.000         | 92  | 75275    | 50.0          | 53.8            |       |
| 76 4,6-Dinitro-2-methylphenol | 198 | 7.916     | 7.916         | 0.000         | 78  | 111938   | 100.0         | 98.7            |       |
| 77 N-Nitrosodiphenylamine     | 169 | 7.987     | 7.987         | 0.000         | 69  | 421388   | 100.0         | 94.8            |       |
| 78 1,2-Diphenylhydrazine      | 77  | 8.022     | 8.022         | 0.000         | 99  | 330908   | 50.0          | 47.8            |       |
| \$ 79 2,4,6-Tribromophenol    | 330 | 8.104     | 8.104         | 0.000         | 95  | 56648    | 50.0          | 50.3            |       |
| 80 4-Bromophenyl phenyl ether | 248 | 8.345     | 8.345         | 0.000         | 85  | 86337    | 50.0          | 49.2            |       |
| 81 Hexachlorobenzene          | 284 | 8.416     | 8.416         | 0.000         | 98  | 103956   | 50.0          | 48.5            |       |
| 83 Pentachlorophenol          | 266 | 8.604     | 8.604         | 0.000         | 93  | 124421   | 100.0         | 109.7           |       |
| 84 Pentachloronitrobenzene    | 237 | 8.622     | 8.622         | 0.000         | 87  | 43996    | 50.0          | 52.8            |       |
| 72 n-Octadecane               | 57  | 8.686     | 8.686         | 0.000         | 94  | 283825   | 50.0          | 48.0            |       |
| * 85 Phenanthrene-d10         | 188 | 8.786     | 8.786         | 0.000         | 99  | 304334   | 40.0          | 40.0            |       |
| 86 Phenanthrene               | 178 | 8.810     | 8.810         | 0.000         | 98  | 424457   | 50.0          | 48.8            |       |
| 87 Anthracene                 | 178 | 8.857     | 8.857         | 0.000         | 98  | 437307   | 50.0          | 49.5            |       |
| 88 Carbazole                  | 167 | 9.016     | 9.016         | 0.000         | 96  | 385962   | 50.0          | 50.9            |       |
| 89 Di-n-butyl phthalate       | 149 | 9.357     | 9.357         | 0.000         | 99  | 512014   | 50.0          | 51.9            |       |
| 90 Fluoranthene               | 202 | 9.975     | 9.975         | 0.000         | 98  | 440061   | 50.0          | 52.6            |       |
| 91 Benzidine                  | 184 | 10.098    | 10.098        | 0.000         | 99  | 248204   | 50.0          | 49.7            |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|--------------------------------|-----|-----------|---------------|---------------|-----|----------|---------------|-----------------|-------|
| 92 Pyrene                      | 202 | 10.198    | 10.198        | 0.000         | 97  | 450834   | 50.0          | 51.0            |       |
| 93 Bisphenol-A                 | 213 | 10.239    | 10.239        | 0.000         | 100 | 174757   | 50.0          | 49.5            |       |
| \$ 94 Terphenyl-d14            | 244 | 10.351    | 10.351        | 0.000         | 99  | 323391   | 50.0          | 53.3            |       |
| 95 Butyl benzyl phthalate      | 149 | 10.875    | 10.875        | 0.000         | 98  | 194518   | 50.0          | 51.0            |       |
| 96 2,3,7,8-TCDD                | 320 | 10.986    | 10.986        | 0.000         | 1   | 424      | 0.5000        | 0.5000          |       |
| 97 Carbamazepine               | 193 | 10.998    | 10.998        | 0.000         | 92  | 151352   | 50.0          | 49.5            |       |
| 98 3,3'-Dichlorobenzidine      | 252 | 11.492    | 11.492        | 0.000         | 100 | 139523   | 50.0          | 56.0            |       |
| * 100 Chrysene-d12             | 240 | 11.533    | 11.533        | 0.000         | 99  | 230967   | 40.0          | 40.0            |       |
| 99 Benzo[a]anthracene          | 228 | 11.522    | 11.522        | 0.000         | 98  | 352388   | 50.0          | 49.3            |       |
| 102 Bis(2-ethylhexyl) phthalat | 149 | 11.563    | 11.563        | 0.000         | 89  | 256253   | 50.0          | 50.6            |       |
| 101 Chrysene                   | 228 | 11.563    | 11.563        | 0.000         | 99  | 312825   | 50.0          | 49.2            |       |
| 103 Di-n-octyl phthalate       | 149 | 12.404    | 12.404        | 0.000         | 97  | 429487   | 50.0          | 52.7            |       |
| 104 Benzo[b]fluoranthene       | 252 | 12.916    | 12.916        | 0.000         | 99  | 321549   | 50.0          | 52.6            |       |
| 105 Benzo[k]fluoranthene       | 252 | 12.951    | 12.951        | 0.000         | 99  | 315570   | 50.0          | 49.2            |       |
| 106 Benzo[a]pyrene             | 252 | 13.357    | 13.357        | 0.000         | 97  | 301031   | 50.0          | 52.3            |       |
| * 107 Perylene-d12             | 264 | 13.433    | 13.433        | 0.000         | 98  | 206855   | 40.0          | 40.0            |       |
| 108 Indeno[1,2,3-cd]pyrene     | 276 | 14.874    | 14.874        | 0.000         | 99  | 279011   | 50.0          | 50.7            |       |
| 109 Dibenz(a,h)anthracene      | 278 | 14.898    | 14.898        | 0.000         | 97  | 268997   | 50.0          | 51.5            |       |
| 110 Benzo[g,h,i]perylene       | 276 | 15.221    | 15.221        | 0.000         | 97  | 275724   | 50.0          | 48.3            |       |

**Reagents:**

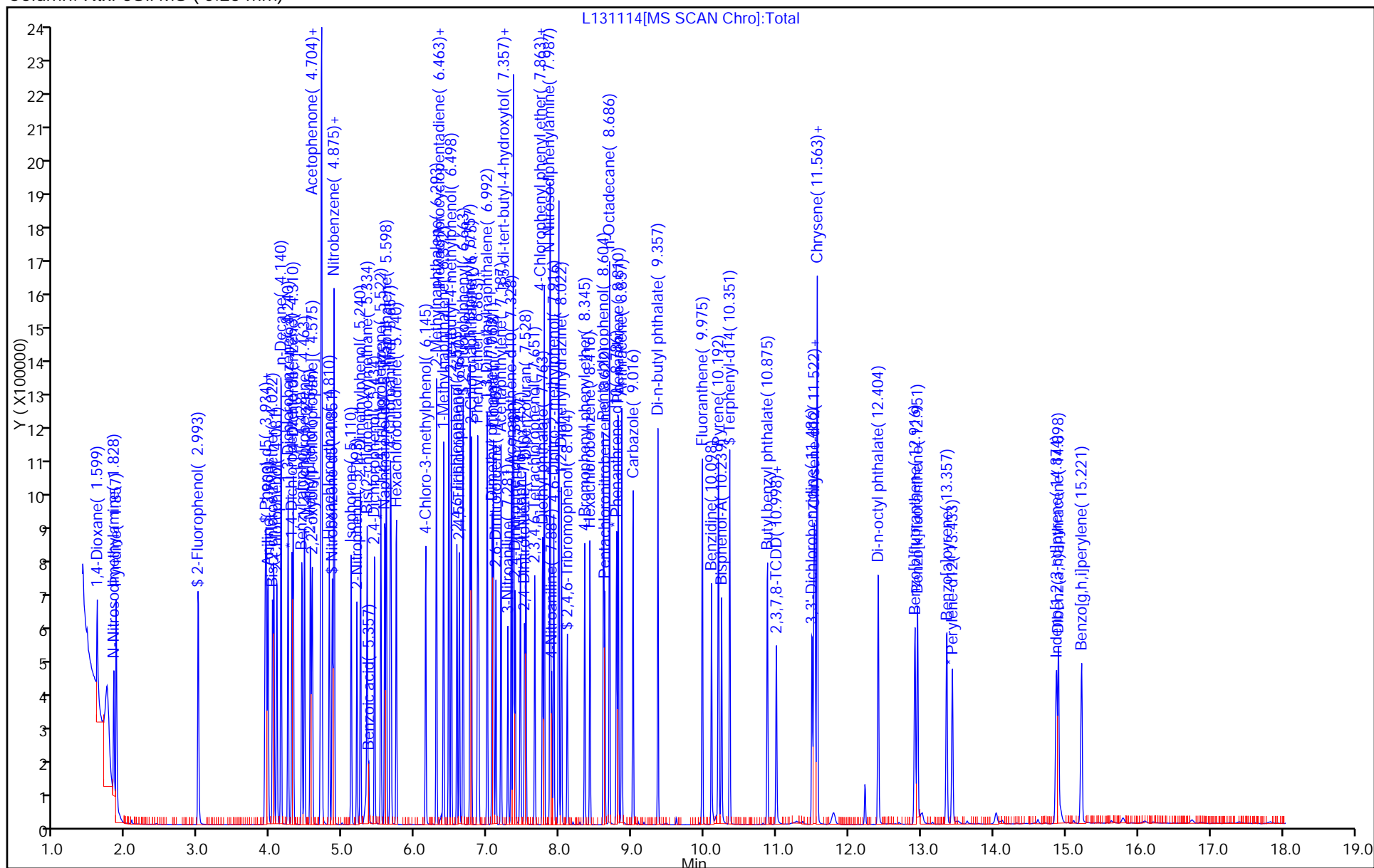
SV\_IC\_BNA\_L6\_00018

Amount Added: 1.00

Units: mL

|                 |   |                |               |
|-----------------|---|----------------|---------------|
| Data File:      | \\ChromNA\\Edison\\ChromData\\CBNAMS12\\20160306-38074.b\\L131114.D |                |               |
| Injection Date: | 06-Mar-2016 09:45:30  | Instrument ID: | CBNAMS12      |
| Lims ID:        | ICIS  |                |               |
| Client ID:      |   |                |               |
| Injection Vol:  | 1.0 ul  | Dil. Factor:   | 1.0000        |
| Method:         | 8270_12R_9  | Limit Group:   | SV 8270D ICAL |
| Column:         | Rtxi-5Sil MS ( 0.25 mm)   |                |               |

ALS Bottle#: 2



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131115.D  
 Lims ID: STD120  
 Client ID:  
 Sample Type: IC Calib Level: 9  
 Inject. Date: 06-Mar-2016 11:01:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038074-003  
 Operator ID: Instrument ID: CBNAMS12  
 Sublist: chrom-8270\_12R\_9\*sub18  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 06-Mar-2016 22:32:20 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK012

First Level Reviewer: bayoumiw

Date: 06-Mar-2016 15:01:26

| 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  | 1.593     | 1.599         | -0.006        | 94 | 201372   | 120.0         | 116.6           |       |
| 2 N-Nitrosodimethylamine      | 74  | 1.828     | 1.828         | 0.000         | 79 | 286538   | 120.0         | 125.6           |       |
| 3 Pyridine                    | 79  | 1.857     | 1.857         | 0.000         | 75 | 500694   | 120.0         | 125.4           |       |
| \$ 4 2-Fluorophenol           | 112 | 2.998     | 2.999         | -0.001        | 90 | 558122   | 120.0         | 139.0           |       |
| \$ 6 Phenol-d5                | 99  | 3.940     | 3.922         | 0.018         | 92 | 646342   | 120.0         | 129.3           |       |
| 7 Phenol                      | 94  | 3.957     | 3.940         | 0.017         | 95 | 601888   | 120.0         | 121.0           |       |
| 8 Aniline                     | 93  | 3.969     | 3.963         | 0.006         | 97 | 691166   | 120.0         | 118.7           |       |
| 9 Bis(2-chloroethyl)ether     | 93  | 4.034     | 4.022         | 0.012         | 91 | 458791   | 120.0         | 114.1           |       |
| 10 2-Chlorophenol             | 128 | 4.092     | 4.087         | 0.005         | 91 | 489832   | 120.0         | 118.3           |       |
| 11 n-Decane                   | 43  | 4.145     | 4.140         | 0.005         | 95 | 858894   | 120.0         | 121.2           |       |
| 12 1,3-Dichlorobenzene        | 146 | 4.245     | 4.240         | 0.005         | 93 | 547422   | 120.0         | 116.8           |       |
| * 13 1,4-Dichlorobenzene-d4   | 152 | 4.298     | 4.293         | 0.005         | 97 | 118279   | 40.0          | 40.0            |       |
| 14 1,4-Dichlorobenzene        | 146 | 4.316     | 4.310         | 0.006         | 92 | 549580   | 120.0         | 119.6           |       |
| 15 Benzyl alcohol             | 108 | 4.440     | 4.428         | 0.012         | 90 | 296593   | 120.0         | 120.9           |       |
| 16 1,2-Dichlorobenzene        | 146 | 4.469     | 4.469         | 0.000         | 97 | 516086   | 120.0         | 116.8           |       |
| 17 2-Methylphenol             | 108 | 4.557     | 4.546         | 0.011         | 88 | 408734   | 120.0         | 115.1           |       |
| 18 2,2'-oxybis[1-chloropropan | 45  | 4.575     | 4.575         | 0.000         | 91 | 977636   | 120.0         | 116.6           |       |
| 22 Acetophenone               | 105 | 4.710     | 4.698         | 0.012         | 95 | 563481   | 120.0         | 113.8           |       |
| 19 4-Methylphenol             | 108 | 4.722     | 4.704         | 0.018         | 93 | 401147   | 120.0         | 107.8           |       |
| 20 3 & 4 Methylphenol         | 108 | 4.722     | 4.704         | 0.018         | 89 | 401147   | 120.0         | 107.8           |       |
| 21 N-Nitrosodi-n-propylamine  | 70  | 4.716     | 4.704         | 0.012         | 92 | 302702   | 120.0         | 117.7           |       |
| 25 Hexachloroethane           | 117 | 4.810     | 4.810         | 0.000         | 94 | 233005   | 120.0         | 115.8           |       |
| \$ 26 Nitrobenzene-d5         | 82  | 4.857     | 4.851         | 0.006         | 94 | 574101   | 120.0         | 133.6           |       |
| 27 Nitrobenzene               | 77  | 4.887     | 4.875         | 0.012         | 89 | 657570   | 120.0         | 119.7           |       |
| 28 n,n'-Dimethylaniline       | 120 | 4.887     | 4.881         | 0.006         | 92 | 620071   | 120.0         | 112.4           |       |
| 29 Isophorone                 | 82  | 5.128     | 5.110         | 0.018         | 98 | 765218   | 120.0         | 116.1           |       |
| 30 2-Nitrophenol              | 139 | 5.198     | 5.193         | 0.005         | 81 | 236806   | 120.0         | 120.4           |       |
| 31 2,4-Dimethylphenol         | 122 | 5.251     | 5.240         | 0.011         | 87 | 360898   | 120.0         | 117.0           |       |
| 32 Bis(2-chloroethoxy)methane | 93  | 5.339     | 5.334         | 0.005         | 94 | 490634   | 120.0         | 115.7           |       |
| 33 Benzoic acid               | 122 | 5.410     | 5.357         | 0.053         | 90 | 240973   | 120.0         | 127.0           |       |
| 34 2,4-Dichlorophenol         | 162 | 5.445     | 5.440         | 0.005         | 93 | 347935   | 120.0         | 117.7           |       |



| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|---------------|-----------------|-------|
| 35 1,2,4-Trichlorobenzene     | 180 | 5.528     | 5.522         | 0.006         | 94  | 399613   | 120.0         | 116.3           |       |
| * 36 Naphthalene-d8           | 136 | 5.581     | 5.581         | 0.000         | 100 | 404212   | 40.0          | 40.0            |       |
| 37 Naphthalene                | 128 | 5.604     | 5.598         | 0.006         | 98  | 1182220  | 120.0         | 116.9           |       |
| 38 4-Chloroaniline            | 127 | 5.663     | 5.651         | 0.012         | 95  | 482473   | 120.0         | 116.4           |       |
| 39 Hexachlorobutadiene        | 225 | 5.739     | 5.740         | -0.001        | 93  | 248325   | 120.0         | 116.0           |       |
| 41 4-Chloro-3-methylphenol    | 107 | 6.151     | 6.145         | 0.006         | 97  | 339908   | 120.0         | 118.0           |       |
| 42 2-Methylnaphthalene        | 142 | 6.298     | 6.293         | 0.006         | 84  | 750862   | 120.0         | 115.0           |       |
| 43 1-Methylnaphthalene        | 142 | 6.392     | 6.392         | 0.000         | 92  | 644870   | 120.0         | 114.3           |       |
| 44 Hexachlorocyclopentadiene  | 237 | 6.469     | 6.463         | 0.006         | 96  | 238724   | 120.0         | 134.3           |       |
| 45 1,2,4,5-Tetrachlorobenzene | 216 | 6.469     | 6.463         | 0.006         | 96  | 342511   | 120.0         | 113.0           |       |
| 46 2-tertbutyl-4-methylphenol | 149 | 6.504     | 6.498         | 0.006         | 88  | 508919   | 120.0         | 116.7           |       |
| 48 2,4,6-Trichlorophenol      | 196 | 6.581     | 6.575         | 0.006         | 88  | 234088   | 120.0         | 119.9           |       |
| 49 2,4,5-Trichlorophenol      | 196 | 6.616     | 6.610         | 0.006         | 95  | 244656   | 120.0         | 117.8           |       |
| \$ 50 2-Fluorobiphenyl        | 172 | 6.669     | 6.663         | 0.006         | 97  | 881105   | 120.0         | 123.8           |       |
| 51 1,1'-Biphenyl              | 154 | 6.763     | 6.757         | 0.006         | 97  | 844653   | 120.0         | 113.7           |       |
| 52 2-Chloronaphthalene        | 162 | 6.781     | 6.775         | 0.006         | 97  | 689665   | 120.0         | 115.5           |       |
| 53 Phenyl ether               | 170 | 6.869     | 6.863         | 0.006         | 88  | 447538   | 120.0         | 115.6           |       |
| 54 2-Nitroaniline             | 65  | 6.886     | 6.875         | 0.011         | 95  | 278010   | 120.0         | 124.3           |       |
| 55 1,3-Dimethylnaphthalene    | 156 | 6.998     | 6.992         | 0.006         | 92  | 510339   | 120.0         | 109.9           |       |
| 58 Dimethyl phthalate         | 163 | 7.075     | 7.063         | 0.012         | 97  | 708316   | 120.0         | 116.4           |       |
| 59 Coumarin                   | 146 | 7.092     | 7.081         | 0.011         | 77  | 236516   | 120.0         | 119.5           |       |
| 60 2,6-Dinitrotoluene         | 165 | 7.128     | 7.116         | 0.012         | 91  | 172112   | 120.0         | 123.0           |       |
| 61 Acenaphthylene             | 152 | 7.192     | 7.187         | 0.005         | 97  | 993781   | 120.0         | 115.0           |       |
| 62 3-Nitroaniline             | 138 | 7.292     | 7.281         | 0.011         | 92  | 182185   | 120.0         | 123.1           |       |
| * 63 Acenaphthene-d10         | 164 | 7.333     | 7.328         | 0.005         | 93  | 198186   | 40.0          | 40.0            |       |
| 64 3,5-di-tert-butyl-4-hydrox | 205 | 7.363     | 7.357         | 0.006         | 98  | 577433   | 120.0         | 118.0           |       |
| 65 Acenaphthene               | 154 | 7.369     | 7.363         | 0.006         | 95  | 586945   | 120.0         | 113.0           |       |
| 66 2,4-Dinitrophenol          | 184 | 7.398     | 7.387         | 0.011         | 90  | 227798   | 240.0         | 239.8           |       |
| 67 4-Nitrophenol              | 65  | 7.469     | 7.457         | 0.012         | 88  | 338237   | 240.0         | 276.3           |       |
| 68 2,4-Dinitrotoluene         | 165 | 7.522     | 7.510         | 0.012         | 94  | 216711   | 120.0         | 126.6           |       |
| 69 Dibenzofuran               | 168 | 7.539     | 7.528         | 0.011         | 95  | 888160   | 120.0         | 114.3           |       |
| 70 2,3,4,6-Tetrachlorophenol  | 232 | 7.657     | 7.651         | 0.006         | 92  | 192240   | 120.0         | 122.8           |       |
| 71 Diethyl phthalate          | 149 | 7.769     | 7.763         | 0.006         | 97  | 729504   | 120.0         | 119.5           |       |
| 73 4-Chlorophenyl phenyl ethe | 204 | 7.869     | 7.863         | 0.006         | 82  | 316839   | 120.0         | 112.7           |       |
| 74 Fluorene                   | 166 | 7.875     | 7.869         | 0.006         | 96  | 693545   | 120.0         | 114.3           |       |
| 75 4-Nitroaniline             | 138 | 7.910     | 7.887         | 0.024         | 93  | 161555   | 120.0         | 118.7           |       |
| 76 4,6-Dinitro-2-methylphenol | 198 | 7.933     | 7.916         | 0.017         | 79  | 269636   | 240.0         | 251.1           |       |
| 77 N-Nitrosodiphenylamine     | 169 | 7.998     | 7.987         | 0.012         | 69  | 950604   | 240.0         | 228.5           |       |
| 78 1,2-Diphenylhydrazine      | 77  | 8.028     | 8.022         | 0.006         | 99  | 778955   | 120.0         | 120.2           |       |
| \$ 79 2,4,6-Tribromophenol    | 330 | 8.110     | 8.104         | 0.006         | 95  | 144497   | 120.0         | 131.2           |       |
| 80 4-Bromophenyl phenyl ether | 248 | 8.351     | 8.345         | 0.006         | 84  | 197152   | 120.0         | 120.0           |       |
| 81 Hexachlorobenzene          | 284 | 8.422     | 8.416         | 0.006         | 98  | 232836   | 120.0         | 116.1           |       |
| 83 Pentachlorophenol          | 266 | 8.616     | 8.604         | 0.012         | 92  | 280292   | 240.0         | 264.2           |       |
| 84 Pentachloronitrobenzene    | 237 | 8.627     | 8.622         | 0.005         | 87  | 88863    | 120.0         | 114.0           |       |
| 72 n-Octadecane               | 57  | 8.692     | 8.686         | 0.006         | 94  | 669473   | 120.0         | 121.0           |       |
| * 85 Phenanthrene-d10         | 188 | 8.786     | 8.786         | 0.000         | 99  | 284814   | 40.0          | 40.0            |       |
| 86 Phenanthrene               | 178 | 8.816     | 8.810         | 0.006         | 98  | 959515   | 120.0         | 117.9           |       |
| 87 Anthracene                 | 178 | 8.863     | 8.857         | 0.006         | 98  | 980400   | 120.0         | 118.6           |       |
| 88 Carbazole                  | 167 | 9.022     | 9.016         | 0.006         | 96  | 836779   | 120.0         | 118.0           |       |
| 89 Di-n-butyl phthalate       | 149 | 9.363     | 9.357         | 0.006         | 99  | 1111096  | 120.0         | 120.3           |       |
| 90 Fluoranthene               | 202 | 9.980     | 9.975         | 0.005         | 98  | 919159   | 120.0         | 117.5           |       |
| 91 Benzidine                  | 184 | 10.104    | 10.098        | 0.006         | 99  | 556241   | 120.0         | 119.0           |       |

| Compound                       | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|--------------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| 92 Pyrene                      | 202 | 10.204       | 10.198           | 0.006            | 97 | 943010   | 120.0            | 117.6              |       |
| 93 Bisphenol-A                 | 213 | 10.245       | 10.239           | 0.006            | 99 | 391123   | 120.0            | 122.0              |       |
| \$ 94 Terphenyl-d14            | 244 | 10.357       | 10.351           | 0.006            | 99 | 738413   | 120.0            | 134.2              |       |
| 95 Butyl benzyl phthalate      | 149 | 10.880       | 10.875           | 0.005            | 98 | 444586   | 120.0            | 128.5              |       |
| 97 Carbamazepine               | 193 | 11.010       | 10.998           | 0.012            | 92 | 362132   | 120.0            | 126.7              |       |
| 98 3,3'-Dichlorobenzidine      | 252 | 11.498       | 11.492           | 0.006            | 99 | 309281   | 120.0            | 136.8              |       |
| * 100 Chrysene-d12             | 240 | 11.539       | 11.533           | 0.006            | 99 | 209541   | 40.0             | 40.0               |       |
| 99 Benzo[a]anthracene          | 228 | 11.527       | 11.522           | 0.005            | 99 | 790856   | 120.0            | 122.0              |       |
| 102 Bis(2-ethylhexyl) phthalat | 149 | 11.568       | 11.563           | 0.005            | 90 | 593701   | 120.0            | 129.1              |       |
| 101 Chrysene                   | 228 | 11.574       | 11.563           | 0.011            | 99 | 683333   | 120.0            | 118.4              |       |
| 103 Di-n-octyl phthalate       | 149 | 12.415       | 12.404           | 0.011            | 96 | 1012008  | 120.0            | 126.9              |       |
| 104 Benzo[b]fluoranthene       | 252 | 12.927       | 12.916           | 0.011            | 99 | 760777   | 120.0            | 127.3              |       |
| 105 Benzo[k]fluoranthene       | 252 | 12.968       | 12.951           | 0.017            | 99 | 720809   | 120.0            | 115.0              |       |
| 106 Benzo[a]pyrene             | 252 | 13.368       | 13.357           | 0.011            | 97 | 726688   | 120.0            | 129.1              |       |
| * 107 Perylene-d12             | 264 | 13.439       | 13.433           | 0.006            | 98 | 202344   | 40.0             | 40.0               |       |
| 108 Indeno[1,2,3-cd]pyrene     | 276 | 14.892       | 14.874           | 0.018            | 99 | 776676   | 120.0            | 144.4              |       |
| 109 Dibenz(a,h)anthracene      | 278 | 14.921       | 14.898           | 0.023            | 96 | 693034   | 120.0            | 135.6              |       |
| 110 Benzo[g,h,i]perylene       | 276 | 15.251       | 15.221           | 0.030            | 97 | 740668   | 120.0            | 132.6              |       |
| S 117 Total Cresols            | 1   |              |                  |                  | 0  |          |                  | 222.9              |       |

**Reagents:**

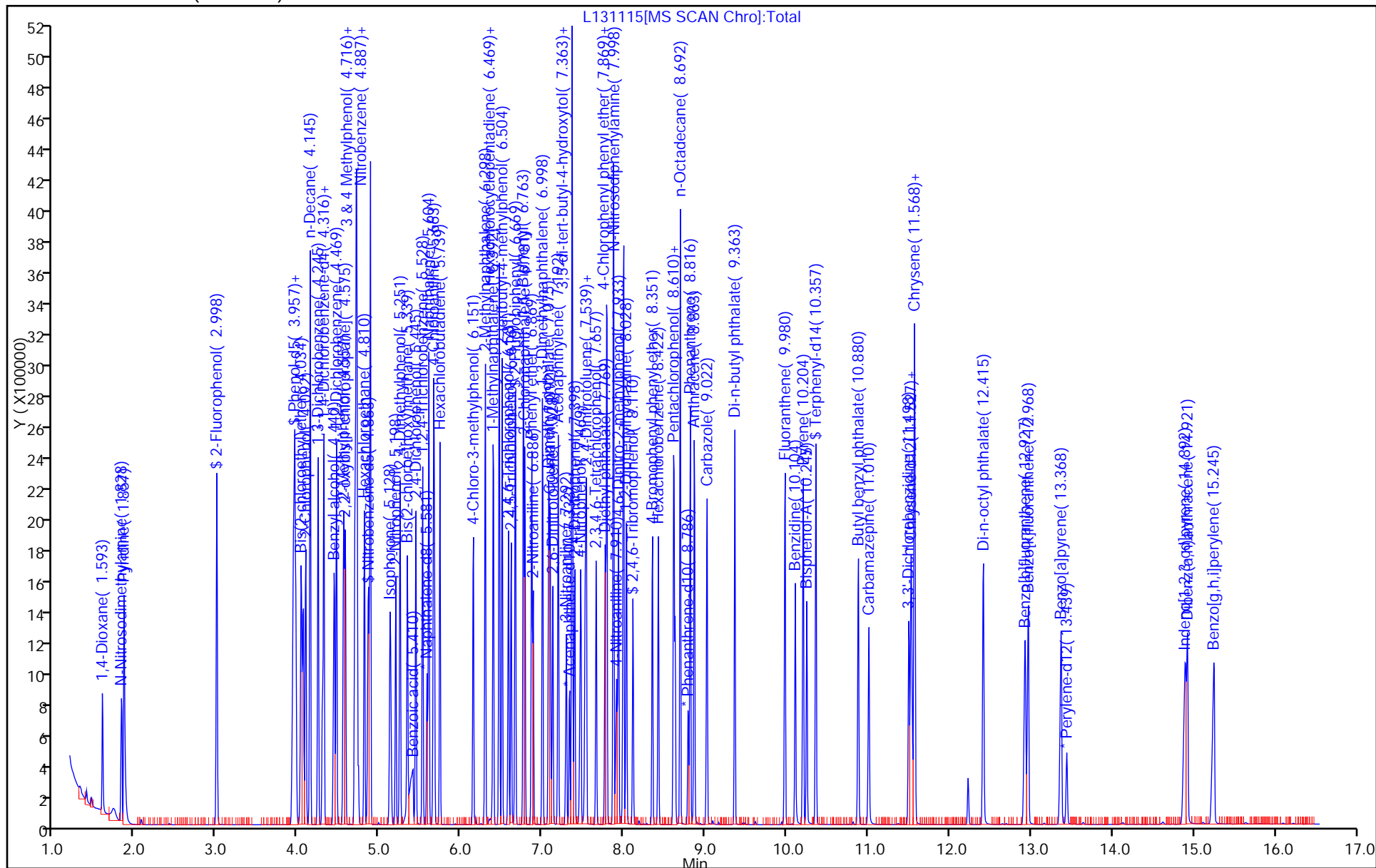
SV\_IC\_BNA\_L8\_00010

Amount Added: 1.00

Units: mL

|                 |   |                |               |
|-----------------|---|----------------|---------------|
| Data File:      | \\ChromNA\\Edison\\ChromData\\CBNAMS12\\20160306-38074.b\\L131115.D |                |               |
| Injection Date: | 06-Mar-2016 11:01:30  | Instrument ID: | CBNAMS12      |
| Lims ID:        | STD120  |                |               |
| Client ID:      |   |                |               |
| Injection Vol:  | 1.0 ul  | Dil. Factor:   | 1.0000        |
| Method:         | 8270_12R_9  | Limit Group:   | SV 8270D ICAL |
| Column:         | Rtxi-5Sil MS ( 0.25 mm)   |                |               |

ALS Bottle#: 3



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131116.D  
 Lims ID: STD80  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 06-Mar-2016 11:25:30 ALS Bottle#: 4 Worklist Smp#: 4  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038074-004  
 Operator ID: Instrument ID: CBNAMS12  
 Sublist: chrom-8270\_12R\_9\*sub18  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 06-Mar-2016 22:32:27 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK012

First Level Reviewer: bayoumiw

Date: 06-Mar-2016 15:02:43

| 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  | 1.599     | 1.599         | 0.000         | 95 | 115950   | 80.0          | 74.0            |       |
| 2 N-Nitrosodimethylamine      | 74  | 1.828     | 1.828         | 0.000         | 72 | 165778   | 80.0          | 80.1            |       |
| 3 Pyridine                    | 79  | 1.858     | 1.857         | 0.001         | 74 | 285154   | 80.0          | 78.8            |       |
| \$ 4 2-Fluorophenol           | 112 | 2.999     | 2.999         | 0.000         | 91 | 285627   | 80.0          | 78.5            |       |
| \$ 6 Phenol-d5                | 99  | 3.928     | 3.922         | 0.006         | 88 | 347979   | 80.0          | 76.8            |       |
| 7 Phenol                      | 94  | 3.946     | 3.940         | 0.006         | 96 | 361819   | 80.0          | 80.2            |       |
| 8 Aniline                     | 93  | 3.963     | 3.963         | 0.000         | 97 | 421296   | 80.0          | 79.8            |       |
| 9 Bis(2-chloroethyl)ether     | 93  | 4.028     | 4.022         | 0.006         | 92 | 273755   | 80.0          | 75.1            |       |
| 10 2-Chlorophenol             | 128 | 4.087     | 4.087         | 0.000         | 92 | 290256   | 80.0          | 77.3            |       |
| 11 n-Decane                   | 43  | 4.146     | 4.140         | 0.006         | 96 | 492907   | 80.0          | 76.7            |       |
| 12 1,3-Dichlorobenzene        | 146 | 4.240     | 4.240         | 0.000         | 94 | 323758   | 80.0          | 76.2            |       |
| * 13 1,4-Dichlorobenzene-d4   | 152 | 4.293     | 4.293         | 0.000         | 97 | 107241   | 40.0          | 40.0            |       |
| 14 1,4-Dichlorobenzene        | 146 | 4.310     | 4.310         | 0.000         | 92 | 325292   | 80.0          | 78.1            |       |
| 15 Benzyl alcohol             | 108 | 4.434     | 4.428         | 0.006         | 90 | 178876   | 80.0          | 80.4            |       |
| 16 1,2-Dichlorobenzene        | 146 | 4.469     | 4.469         | 0.000         | 94 | 308781   | 80.0          | 77.1            |       |
| 17 2-Methylphenol             | 108 | 4.551     | 4.546         | 0.005         | 89 | 252517   | 80.0          | 78.5            |       |
| 18 2,2'-oxybis[1-chloropropan | 45  | 4.575     | 4.575         | 0.000         | 91 | 587140   | 80.0          | 77.2            |       |
| 22 Acetophenone               | 105 | 4.704     | 4.698         | 0.006         | 94 | 353750   | 80.0          | 78.8            |       |
| 19 4-Methylphenol             | 108 | 4.710     | 4.704         | 0.006         | 84 | 263085   | 80.0          | 78.0            |       |
| 20 3 & 4 Methylphenol         | 108 | 4.710     | 4.704         | 0.006         | 89 | 263085   | 80.0          | 78.0            |       |
| 21 N-Nitrosodi-n-propylamine  | 70  | 4.710     | 4.704         | 0.006         | 95 | 189017   | 80.0          | 81.1            |       |
| 25 Hexachloroethane           | 117 | 4.810     | 4.810         | 0.000         | 94 | 138496   | 80.0          | 75.9            |       |
| \$ 26 Nitrobenzene-d5         | 82  | 4.857     | 4.851         | 0.006         | 92 | 315873   | 80.0          | 75.8            |       |
| 27 Nitrobenzene               | 77  | 4.875     | 4.875         | 0.000         | 88 | 397138   | 80.0          | 74.6            |       |
| 28 n,n'-Dimethylaniline       | 120 | 4.881     | 4.881         | 0.000         | 93 | 382509   | 80.0          | 76.5            |       |
| 29 Isophorone                 | 82  | 5.116     | 5.110         | 0.006         | 98 | 492476   | 80.0          | 77.1            |       |
| 30 2-Nitrophenol              | 139 | 5.193     | 5.193         | 0.000         | 83 | 149324   | 80.0          | 78.3            |       |
| 31 2,4-Dimethylphenol         | 122 | 5.246     | 5.240         | 0.006         | 87 | 227273   | 80.0          | 76.0            |       |
| 32 Bis(2-chloroethoxy)methane | 93  | 5.334     | 5.334         | 0.000         | 95 | 311948   | 80.0          | 75.9            |       |
| 33 Benzoic acid               | 122 | 5.381     | 5.357         | 0.024         | 91 | 151677   | 80.0          | 83.6            |       |
| 34 2,4-Dichlorophenol         | 162 | 5.440     | 5.440         | 0.000         | 93 | 223872   | 80.0          | 78.1            |       |

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|---------------|-----------------|-------|
| 35 1,2,4-Trichlorobenzene     | 180 | 5.528     | 5.522         | 0.006         | 94  | 252583   | 80.0          | 75.8            |       |
| * 36 Naphthalene-d8           | 136 | 5.581     | 5.581         | 0.000         | 100 | 391829   | 40.0          | 40.0            |       |
| 37 Naphthalene                | 128 | 5.598     | 5.598         | 0.000         | 99  | 741466   | 80.0          | 75.6            |       |
| 38 4-Chloroaniline            | 127 | 5.657     | 5.651         | 0.006         | 96  | 314119   | 80.0          | 78.2            |       |
| 39 Hexachlorobutadiene        | 225 | 5.740     | 5.740         | 0.000         | 95  | 154346   | 80.0          | 74.4            |       |
| 41 4-Chloro-3-methylphenol    | 107 | 6.145     | 6.145         | 0.000         | 97  | 224168   | 80.0          | 80.3            |       |
| 42 2-Methylnaphthalene        | 142 | 6.293     | 6.293         | 0.001         | 84  | 486561   | 80.0          | 76.8            |       |
| 43 1-Methylnaphthalene        | 142 | 6.393     | 6.392         | 0.000         | 93  | 421223   | 80.0          | 77.0            |       |
| 44 Hexachlorocyclopentadiene  | 237 | 6.463     | 6.463         | 0.000         | 96  | 146277   | 80.0          | 81.6            |       |
| 45 1,2,4,5-Tetrachlorobenzene | 216 | 6.469     | 6.463         | 0.006         | 96  | 225323   | 80.0          | 73.7            |       |
| 46 2-tertbutyl-4-methylphenol | 149 | 6.498     | 6.498         | 0.000         | 89  | 324666   | 80.0          | 76.8            |       |
| 48 2,4,6-Trichlorophenol      | 196 | 6.581     | 6.575         | 0.006         | 90  | 153918   | 80.0          | 78.2            |       |
| 49 2,4,5-Trichlorophenol      | 196 | 6.610     | 6.610         | 0.000         | 95  | 163150   | 80.0          | 77.9            |       |
| \$ 50 2-Fluorobiphenyl        | 172 | 6.663     | 6.663         | 0.000         | 97  | 517195   | 80.0          | 72.1            |       |
| 51 1,1'-Biphenyl              | 154 | 6.763     | 6.757         | 0.006         | 96  | 564920   | 80.0          | 75.4            |       |
| 52 2-Chloronaphthalene        | 162 | 6.781     | 6.775         | 0.006         | 98  | 456512   | 80.0          | 75.8            |       |
| 53 Phenyl ether               | 170 | 6.863     | 6.863         | 0.000         | 89  | 291570   | 80.0          | 74.7            |       |
| 54 2-Nitroaniline             | 65  | 6.881     | 6.875         | 0.006         | 95  | 180395   | 80.0          | 80.0            |       |
| 55 1,3-Dimethylnaphthalene    | 156 | 6.998     | 6.992         | 0.006         | 91  | 332405   | 80.0          | 71.0            |       |
| 58 Dimethyl phthalate         | 163 | 7.069     | 7.063         | 0.006         | 98  | 480512   | 80.0          | 78.3            |       |
| 59 Coumarin                   | 146 | 7.081     | 7.081         | 0.000         | 77  | 156191   | 80.0          | 81.4            |       |
| 60 2,6-Dinitrotoluene         | 165 | 7.122     | 7.116         | 0.006         | 92  | 114052   | 80.0          | 80.9            |       |
| 61 Acenaphthylene             | 152 | 7.187     | 7.187         | 0.000         | 97  | 658151   | 80.0          | 75.5            |       |
| 62 3-Nitroaniline             | 138 | 7.287     | 7.281         | 0.006         | 92  | 121559   | 80.0          | 81.4            |       |
| * 63 Acenaphthene-d10         | 164 | 7.328     | 7.328         | 0.000         | 93  | 199822   | 40.0          | 40.0            |       |
| 64 3,5-di-tert-butyl-4-hydrox | 205 | 7.357     | 7.357         | 0.000         | 98  | 374484   | 80.0          | 75.9            |       |
| 65 Acenaphthene               | 154 | 7.363     | 7.363         | 0.000         | 95  | 396560   | 80.0          | 75.8            |       |
| 66 2,4-Dinitrophenol          | 184 | 7.387     | 7.387         | 0.000         | 90  | 146084   | 160.0         | 160.8           |       |
| 67 4-Nitrophenol              | 65  | 7.463     | 7.457         | 0.006         | 75  | 206830   | 160.0         | 167.5           |       |
| 68 2,4-Dinitrotoluene         | 165 | 7.516     | 7.510         | 0.006         | 94  | 146789   | 80.0          | 85.0            |       |
| 69 Dibenzofuran               | 168 | 7.534     | 7.528         | 0.006         | 95  | 599294   | 80.0          | 76.5            |       |
| 70 2,3,4,6-Tetrachlorophenol  | 232 | 7.657     | 7.651         | 0.006         | 93  | 129191   | 80.0          | 81.9            |       |
| 71 Diethyl phthalate          | 149 | 7.763     | 7.763         | 0.000         | 97  | 488268   | 80.0          | 79.3            |       |
| 73 4-Chlorophenyl phenyl ethe | 204 | 7.869     | 7.863         | 0.006         | 75  | 213726   | 80.0          | 75.4            |       |
| 74 Fluorene                   | 166 | 7.869     | 7.869         | 0.000         | 94  | 466315   | 80.0          | 76.2            |       |
| 75 4-Nitroaniline             | 138 | 7.898     | 7.887         | 0.012         | 91  | 116465   | 80.0          | 84.9            |       |
| 76 4,6-Dinitro-2-methylphenol | 198 | 7.922     | 7.916         | 0.006         | 78  | 176450   | 160.0         | 158.5           |       |
| 77 N-Nitrosodiphenylamine     | 169 | 7.987     | 7.987         | 0.001         | 69  | 645107   | 160.0         | 148.9           |       |
| 78 1,2-Diphenylhydrazine      | 77  | 8.028     | 8.022         | 0.006         | 100 | 514159   | 80.0          | 76.2            |       |
| \$ 79 2,4,6-Tribromophenol    | 330 | 8.104     | 8.104         | 0.000         | 95  | 85763    | 80.0          | 77.4            |       |
| 80 4-Bromophenyl phenyl ether | 248 | 8.345     | 8.345         | 0.000         | 84  | 133587   | 80.0          | 78.1            |       |
| 81 Hexachlorobenzene          | 284 | 8.416     | 8.416         | 0.000         | 98  | 158223   | 80.0          | 75.8            |       |
| 83 Pentachlorophenol          | 266 | 8.610     | 8.604         | 0.006         | 92  | 190576   | 160.0         | 172.5           |       |
| 84 Pentachloronitrobenzene    | 237 | 8.622     | 8.622         | 0.000         | 86  | 57929    | 80.0          | 71.4            |       |
| 72 n-Octadecane               | 57  | 8.686     | 8.686         | 0.000         | 94  | 450445   | 80.0          | 78.2            |       |
| * 85 Phenanthrene-d10         | 188 | 8.786     | 8.786         | 0.000         | 99  | 296546   | 40.0          | 40.0            |       |
| 86 Phenanthrene               | 178 | 8.810     | 8.810         | 0.000         | 98  | 646791   | 80.0          | 76.3            |       |
| 87 Anthracene                 | 178 | 8.857     | 8.857         | 0.000         | 98  | 656041   | 80.0          | 76.2            |       |
| 88 Carbazole                  | 167 | 9.016     | 9.016         | 0.000         | 96  | 569141   | 80.0          | 77.1            |       |
| 89 Di-n-butyl phthalate       | 149 | 9.357     | 9.357         | 0.000         | 99  | 755326   | 80.0          | 78.6            |       |
| 90 Fluoranthene               | 202 | 9.975     | 9.975         | 0.000         | 98  | 621813   | 80.0          | 76.3            |       |
| 91 Benzidine                  | 184 | 10.098    | 10.098        | 0.000         | 99  | 401647   | 80.0          | 82.5            |       |

| Compound                       | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|--------------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 92 Pyrene                      | 202 | 10.198       | 10.198           | 0.000            | 97  | 637357   | 80.0             | 75.5               |       |
| 93 Bisphenol-A                 | 213 | 10.239       | 10.239           | 0.000            | 99  | 274678   | 80.0             | 81.4               |       |
| \$ 94 Terphenyl-d14            | 244 | 10.351       | 10.351           | 0.000            | 99  | 447195   | 80.0             | 77.2               |       |
| 95 Butyl benzyl phthalate      | 149 | 10.875       | 10.875           | 0.000            | 98  | 294540   | 80.0             | 80.9               |       |
| 97 Carbamazepine               | 193 | 10.998       | 10.998           | 0.000            | 92  | 241816   | 80.0             | 81.2               |       |
| 98 3,3'-Dichlorobenzidine      | 252 | 11.492       | 11.492           | 0.000            | 100 | 222678   | 80.0             | 93.6               |       |
| 99 Benzo[a]anthracene          | 228 | 11.522       | 11.522           | 0.000            | 98  | 535388   | 80.0             | 78.5               |       |
| * 100 Chrysene-d12             | 240 | 11.533       | 11.533           | 0.000            | 99  | 220543   | 40.0             | 40.0               |       |
| 102 Bis(2-ethylhexyl) phthalat | 149 | 11.563       | 11.563           | 0.000            | 90  | 392010   | 80.0             | 81.0               |       |
| 101 Chrysene                   | 228 | 11.569       | 11.563           | 0.006            | 98  | 459961   | 80.0             | 75.7               |       |
| 103 Di-n-octyl phthalate       | 149 | 12.410       | 12.404           | 0.006            | 97  | 677688   | 80.0             | 79.0               |       |
| 104 Benzo[b]fluoranthene       | 252 | 12.916       | 12.916           | 0.000            | 99  | 503490   | 80.0             | 78.4               |       |
| 105 Benzo[k]fluoranthene       | 252 | 12.957       | 12.951           | 0.006            | 100 | 518894   | 80.0             | 77.0               |       |
| 106 Benzo[a]pyrene             | 252 | 13.357       | 13.357           | 0.000            | 97  | 499696   | 80.0             | 82.5               |       |
| * 107 Perylene-d12             | 264 | 13.433       | 13.433           | 0.000            | 98  | 217581   | 40.0             | 40.0               |       |
| 108 Indeno[1,2,3-cd]pyrene     | 276 | 14.880       | 14.874           | 0.006            | 99  | 500975   | 80.0             | 86.6               |       |
| 109 Dibenz(a,h)anthracene      | 278 | 14.910       | 14.898           | 0.012            | 97  | 471780   | 80.0             | 85.8               |       |
| 110 Benzo[g,h,i]perylene       | 276 | 15.233       | 15.221           | 0.012            | 97  | 503219   | 80.0             | 83.8               |       |
| S 117 Total Cresols            | 1   |              |                  |                  | 0   |          |                  | 156.4              |       |

**Reagents:**

SV\_IC\_BNA\_L7\_00010

Amount Added: 1.00

Units: mL



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS12\\20160306-38074.b\\L131116.D

Injection Date: 06-Mar-2016 11:25:30

Instrument ID: CBNAMS12

Operator ID:

Lims ID: STD80

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

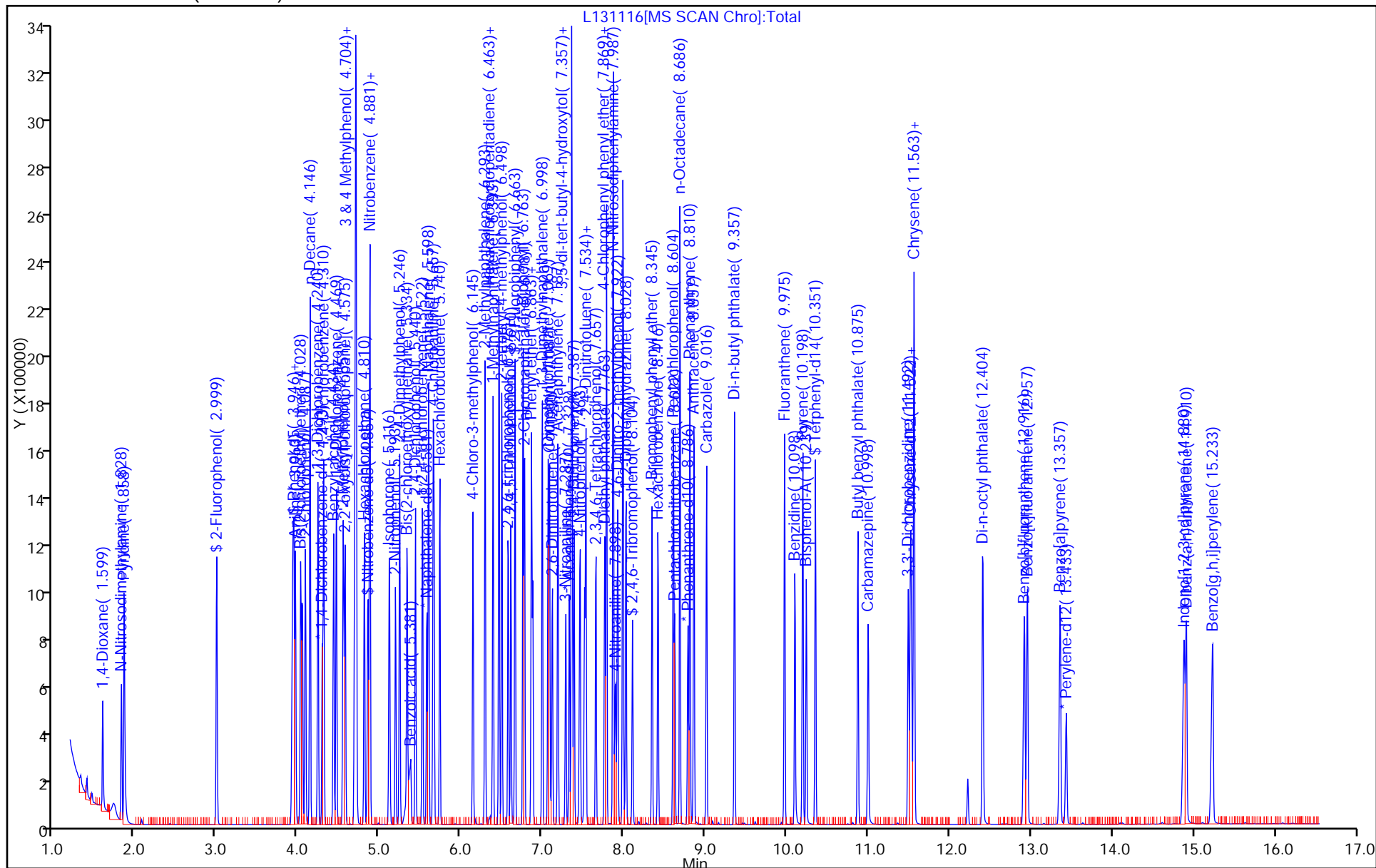
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8270\_12R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131117.D  
 Lims ID: STD20  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 06-Mar-2016 11:50:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038074-005  
 Operator ID: Instrument ID: CBNAMS12  
 Sublist: chrom-8270\_12R\_9\*sub18  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 06-Mar-2016 22:32:36 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK012

First Level Reviewer: bayoumiw

Date: 06-Mar-2016 15:03:42

| 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  | 1.604     | 1.599         | 0.005         | 96 | 38003    | 20.0          | 19.2            |       |
| 2 N-Nitrosodimethylamine      | 74  | 1.828     | 1.828         | 0.000         | 72 | 53626    | 20.0          | 20.5            |       |
| 3 Pyridine                    | 79  | 1.863     | 1.857         | 0.006         | 77 | 91101    | 20.0          | 19.9            |       |
| \$ 4 2-Fluorophenol           | 112 | 2.998     | 2.999         | -0.001        | 93 | 90295    | 20.0          | 19.6            |       |
| \$ 6 Phenol-d5                | 99  | 3.922     | 3.922         | 0.000         | 89 | 108746   | 20.0          | 19.0            |       |
| 7 Phenol                      | 94  | 3.934     | 3.940         | -0.006        | 97 | 113390   | 20.0          | 19.9            |       |
| 8 Aniline                     | 93  | 3.957     | 3.963         | -0.006        | 98 | 134281   | 20.0          | 20.1            |       |
| 9 Bis(2-chloroethyl)ether     | 93  | 4.022     | 4.022         | 0.000         | 92 | 93409    | 20.0          | 20.3            |       |
| 10 2-Chlorophenol             | 128 | 4.081     | 4.087         | -0.006        | 93 | 98395    | 20.0          | 20.8            |       |
| 11 n-Decane                   | 43  | 4.140     | 4.140         | 0.000         | 96 | 162615   | 20.0          | 20.0            |       |
| 12 1,3-Dichlorobenzene        | 146 | 4.240     | 4.240         | 0.000         | 94 | 109773   | 20.0          | 20.5            |       |
| * 13 1,4-Dichlorobenzene-d4   | 152 | 4.292     | 4.293         | -0.001        | 97 | 135436   | 40.0          | 40.0            |       |
| 14 1,4-Dichlorobenzene        | 146 | 4.310     | 4.310         | 0.000         | 94 | 107149   | 20.0          | 20.4            |       |
| 15 Benzyl alcohol             | 108 | 4.428     | 4.428         | 0.000         | 91 | 58212    | 20.0          | 20.7            |       |
| 16 1,2-Dichlorobenzene        | 146 | 4.469     | 4.469         | 0.000         | 95 | 103581   | 20.0          | 20.5            |       |
| 17 2-Methylphenol             | 108 | 4.545     | 4.546         | -0.001        | 88 | 83893    | 20.0          | 20.6            |       |
| 18 2,2'-oxybis[1-chloropropan | 45  | 4.575     | 4.575         | 0.000         | 92 | 200465   | 20.0          | 20.9            |       |
| 22 Acetophenone               | 105 | 4.698     | 4.698         | 0.000         | 93 | 116608   | 20.0          | 20.6            |       |
| 19 4-Methylphenol             | 108 | 4.704     | 4.704         | 0.000         | 86 | 87172    | 20.0          | 20.5            |       |
| 20 3 & 4 Methylphenol         | 108 | 4.704     | 4.704         | 0.000         | 86 | 87172    | 20.0          | 20.5            |       |
| 21 N-Nitrosodi-n-propylamine  | 70  | 4.698     | 4.704         | -0.006        | 95 | 59320    | 20.0          | 20.1            |       |
| 25 Hexachloroethane           | 117 | 4.810     | 4.810         | 0.000         | 95 | 46768    | 20.0          | 20.3            |       |
| \$ 26 Nitrobenzene-d5         | 82  | 4.845     | 4.851         | -0.006        | 93 | 97114    | 20.0          | 19.4            |       |
| 27 Nitrobenzene               | 77  | 4.869     | 4.875         | -0.006        | 88 | 129199   | 20.0          | 20.2            |       |
| 28 n,n'-Dimethylaniline       | 120 | 4.875     | 4.881         | -0.006        | 93 | 128135   | 20.0          | 20.3            |       |
| 29 Isophorone                 | 82  | 5.110     | 5.110         | 0.000         | 99 | 156204   | 20.0          | 20.3            |       |
| 30 2-Nitrophenol              | 139 | 5.192     | 5.193         | -0.001        | 86 | 47822    | 20.0          | 20.8            |       |
| 31 2,4-Dimethylphenol         | 122 | 5.239     | 5.240         | -0.001        | 88 | 74712    | 20.0          | 20.8            |       |
| 32 Bis(2-chloroethoxy)methane | 93  | 5.334     | 5.334         | 0.000         | 96 | 104017   | 20.0          | 21.0            |       |
| 33 Benzoic acid               | 122 | 5.328     | 5.357         | -0.029        | 91 | 37725    | 20.0          | 19.8            |       |
| 34 2,4-Dichlorophenol         | 162 | 5.434     | 5.440         | -0.006        | 93 | 72203    | 20.0          | 20.9            |       |



| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-------------------------------|-----|-----------|---------------|---------------|----|----------|---------------|-----------------|-------|
| 35 1,2,4-Trichlorobenzene     | 180 | 5.522     | 5.522         | 0.000         | 94 | 83421    | 20.0          | 20.8            |       |
| * 36 Naphthalene-d8           | 136 | 5.575     | 5.581         | -0.006        | 99 | 471722   | 40.0          | 40.0            |       |
| 37 Naphthalene                | 128 | 5.598     | 5.598         | 0.000         | 99 | 243105   | 20.0          | 20.6            |       |
| 38 4-Chloroaniline            | 127 | 5.651     | 5.651         | 0.000         | 96 | 99609    | 20.0          | 20.6            |       |
| 39 Hexachlorobutadiene        | 225 | 5.739     | 5.740         | -0.001        | 96 | 51041    | 20.0          | 20.4            |       |
| 41 4-Chloro-3-methylphenol    | 107 | 6.139     | 6.145         | -0.006        | 98 | 69278    | 20.0          | 20.6            |       |
| 42 2-Methylnaphthalene        | 142 | 6.292     | 6.293         | 0.000         | 85 | 156259   | 20.0          | 20.5            |       |
| 43 1-Methylnaphthalene        | 142 | 6.386     | 6.392         | -0.006        | 93 | 134591   | 20.0          | 20.4            |       |
| 44 Hexachlorocyclopentadiene  | 237 | 6.463     | 6.463         | 0.000         | 88 | 42457    | 20.0          | 20.4            |       |
| 45 1,2,4,5-Tetrachlorobenzene | 216 | 6.463     | 6.463         | 0.000         | 95 | 73984    | 20.0          | 20.8            |       |
| 46 2-tertbutyl-4-methylphenol | 149 | 6.498     | 6.498         | 0.000         | 89 | 104244   | 20.0          | 20.5            |       |
| 48 2,4,6-Trichlorophenol      | 196 | 6.575     | 6.575         | 0.000         | 89 | 48633    | 20.0          | 21.2            |       |
| 49 2,4,5-Trichlorophenol      | 196 | 6.610     | 6.610         | 0.000         | 96 | 50045    | 20.0          | 20.5            |       |
| \$ 50 2-Fluorobiphenyl        | 172 | 6.657     | 6.663         | -0.006        | 97 | 158262   | 20.0          | 19.0            |       |
| 51 1,1'-Biphenyl              | 154 | 6.757     | 6.757         | 0.000         | 95 | 178686   | 20.0          | 20.5            |       |
| 52 2-Chloronaphthalene        | 162 | 6.775     | 6.775         | 0.000         | 98 | 142912   | 20.0          | 20.4            |       |
| 53 Phenyl ether               | 170 | 6.863     | 6.863         | 0.000         | 91 | 92349    | 20.0          | 20.3            |       |
| 54 2-Nitroaniline             | 65  | 6.875     | 6.875         | 0.000         | 97 | 53248    | 20.0          | 20.3            |       |
| 55 1,3-Dimethylnaphthalene    | 156 | 6.992     | 6.992         | 0.000         | 92 | 115602   | 20.0          | 21.2            |       |
| 58 Dimethyl phthalate         | 163 | 7.057     | 7.063         | -0.006        | 98 | 148582   | 20.0          | 20.8            |       |
| 59 Coumarin                   | 146 | 7.075     | 7.081         | -0.006        | 80 | 47515    | 20.0          | 20.6            |       |
| 60 2,6-Dinitrotoluene         | 165 | 7.110     | 7.116         | -0.006        | 93 | 35133    | 20.0          | 21.4            |       |
| 61 Acenaphthylene             | 152 | 7.181     | 7.187         | -0.006        | 97 | 210398   | 20.0          | 20.8            |       |
| 62 3-Nitroaniline             | 138 | 7.281     | 7.281         | 0.000         | 93 | 36669    | 20.0          | 21.1            |       |
| * 63 Acenaphthene-d10         | 164 | 7.328     | 7.328         | 0.000         | 93 | 232391   | 40.0          | 40.0            |       |
| 64 3,5-di-tert-butyl-4-hydrox | 205 | 7.351     | 7.357         | -0.006        | 98 | 118871   | 20.0          | 20.7            |       |
| 65 Acenaphthene               | 154 | 7.357     | 7.363         | -0.006        | 95 | 125737   | 20.0          | 20.7            |       |
| 66 2,4-Dinitrophenol          | 184 | 7.381     | 7.387         | -0.007        | 93 | 37447    | 40.0          | 40.9            |       |
| 67 4-Nitrophenol              | 65  | 7.445     | 7.457         | -0.012        | 91 | 54668    | 40.0          | 38.1            |       |
| 68 2,4-Dinitrotoluene         | 165 | 7.510     | 7.510         | 0.000         | 94 | 43303    | 20.0          | 21.6            |       |
| 69 Dibenzofuran               | 168 | 7.528     | 7.528         | 0.000         | 96 | 189491   | 20.0          | 20.8            |       |
| 70 2,3,4,6-Tetrachlorophenol  | 232 | 7.651     | 7.651         | 0.000         | 93 | 37874    | 20.0          | 20.6            |       |
| 71 Diethyl phthalate          | 149 | 7.757     | 7.763         | -0.006        | 98 | 149222   | 20.0          | 20.8            |       |
| 73 4-Chlorophenyl phenyl ethe | 204 | 7.863     | 7.863         | 0.000         | 76 | 67723    | 20.0          | 20.5            |       |
| 74 Fluorene                   | 166 | 7.863     | 7.869         | -0.006        | 94 | 146748   | 20.0          | 20.6            |       |
| 75 4-Nitroaniline             | 138 | 7.880     | 7.887         | -0.006        | 93 | 31896    | 20.0          | 20.0            |       |
| 76 4,6-Dinitro-2-methylphenol | 198 | 7.910     | 7.916         | -0.006        | 80 | 50811    | 40.0          | 41.9            |       |
| 77 N-Nitrosodiphenylamine     | 169 | 7.980     | 7.987         | -0.006        | 70 | 199148   | 40.0          | 40.8            |       |
| 78 1,2-Diphenylhydrazine      | 77  | 8.016     | 8.022         | -0.006        | 99 | 154158   | 20.0          | 20.3            |       |
| \$ 79 2,4,6-Tribromophenol    | 330 | 8.098     | 8.104         | -0.006        | 95 | 24250    | 20.0          | 19.1            |       |
| 80 4-Bromophenyl phenyl ether | 248 | 8.345     | 8.345         | 0.000         | 89 | 39321    | 20.0          | 20.4            |       |
| 81 Hexachlorobenzene          | 284 | 8.416     | 8.416         | 0.000         | 98 | 48462    | 20.0          | 20.6            |       |
| 83 Pentachlorophenol          | 266 | 8.604     | 8.604         | 0.000         | 93 | 54834    | 40.0          | 44.1            |       |
| 84 Pentachloronitrobenzene    | 237 | 8.622     | 8.622         | 0.000         | 87 | 19260    | 20.0          | 21.1            |       |
| 72 n-Octadecane               | 57  | 8.686     | 8.686         | 0.000         | 94 | 133877   | 20.0          | 20.6            |       |
| * 85 Phenanthrene-d10         | 188 | 8.780     | 8.786         | -0.006        | 99 | 333854   | 40.0          | 40.0            |       |
| 86 Phenanthrene               | 178 | 8.804     | 8.810         | -0.006        | 97 | 195972   | 20.0          | 20.5            |       |
| 87 Anthracene                 | 178 | 8.857     | 8.857         | 0.000         | 98 | 200610   | 20.0          | 20.7            |       |
| 88 Carbazole                  | 167 | 9.010     | 9.016         | -0.006        | 96 | 172375   | 20.0          | 20.7            |       |
| 89 Di-n-butyl phthalate       | 149 | 9.357     | 9.357         | 0.000         | 99 | 218720   | 20.0          | 20.2            |       |
| 90 Fluoranthene               | 202 | 9.969     | 9.975         | -0.006        | 98 | 185698   | 20.0          | 20.2            |       |
| 91 Benzidine                  | 184 | 10.098    | 10.098        | 0.000         | 99 | 96907    | 20.0          | 17.7            |       |

| Compound                       | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|--------------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 92 Pyrene                      | 202 | 10.192       | 10.198           | -0.006           | 97  | 188270   | 20.0             | 21.0               |       |
| 93 Bisphenol-A                 | 213 | 10.239       | 10.239           | 0.000            | 99  | 71302    | 20.0             | 19.9               |       |
| \$ 94 Terphenyl-d14            | 244 | 10.351       | 10.351           | 0.000            | 99  | 123370   | 20.0             | 20.0               |       |
| 95 Butyl benzyl phthalate      | 149 | 10.869       | 10.875           | -0.006           | 97  | 79196    | 20.0             | 20.5               |       |
| 97 Carbamazepine               | 193 | 10.992       | 10.998           | -0.006           | 92  | 53836    | 20.0             | 18.8               |       |
| 98 3,3'-Dichlorobenzidine      | 252 | 11.486       | 11.492           | -0.006           | 99  | 52667    | 20.0             | 20.8               |       |
| 99 Benzo[a]anthracene          | 228 | 11.516       | 11.522           | -0.006           | 99  | 147362   | 20.0             | 20.3               |       |
| * 100 Chrysene-d12             | 240 | 11.527       | 11.533           | -0.006           | 99  | 234586   | 40.0             | 40.0               |       |
| 102 Bis(2-ethylhexyl) phthalat | 149 | 11.557       | 11.563           | -0.006           | 89  | 103322   | 20.0             | 20.1               |       |
| 101 Chrysene                   | 228 | 11.557       | 11.563           | -0.006           | 98  | 135168   | 20.0             | 20.9               |       |
| 103 Di-n-octyl phthalate       | 149 | 12.404       | 12.404           | 0.000            | 97  | 165995   | 20.0             | 20.6               |       |
| 104 Benzo[b]fluoranthene       | 252 | 12.910       | 12.916           | -0.006           | 99  | 129558   | 20.0             | 21.5               |       |
| 105 Benzo[k]fluoranthene       | 252 | 12.945       | 12.951           | -0.006           | 100 | 125891   | 20.0             | 19.9               |       |
| 106 Benzo[a]pyrene             | 252 | 13.351       | 13.357           | -0.006           | 97  | 118750   | 20.0             | 20.9               |       |
| * 107 Perylene-d12             | 264 | 13.427       | 13.433           | -0.006           | 98  | 204309   | 40.0             | 40.0               |       |
| 108 Indeno[1,2,3-cd]pyrene     | 276 | 14.862       | 14.874           | -0.012           | 99  | 113934   | 20.0             | 21.0               |       |
| 109 Dibenz(a,h)anthracene      | 278 | 14.892       | 14.898           | -0.006           | 95  | 112744   | 20.0             | 21.8               |       |
| 110 Benzo[g,h,i]perylene       | 276 | 15.209       | 15.221           | -0.012           | 97  | 114571   | 20.0             | 20.3               |       |
| S 117 Total Cresols            | 1   |              |                  |                  | 0   |          |                  | 41.1               |       |

**Reagents:**

SV\_IC\_BNA\_L5\_00010

Amount Added: 1.00

Units: mL

Operator ID:

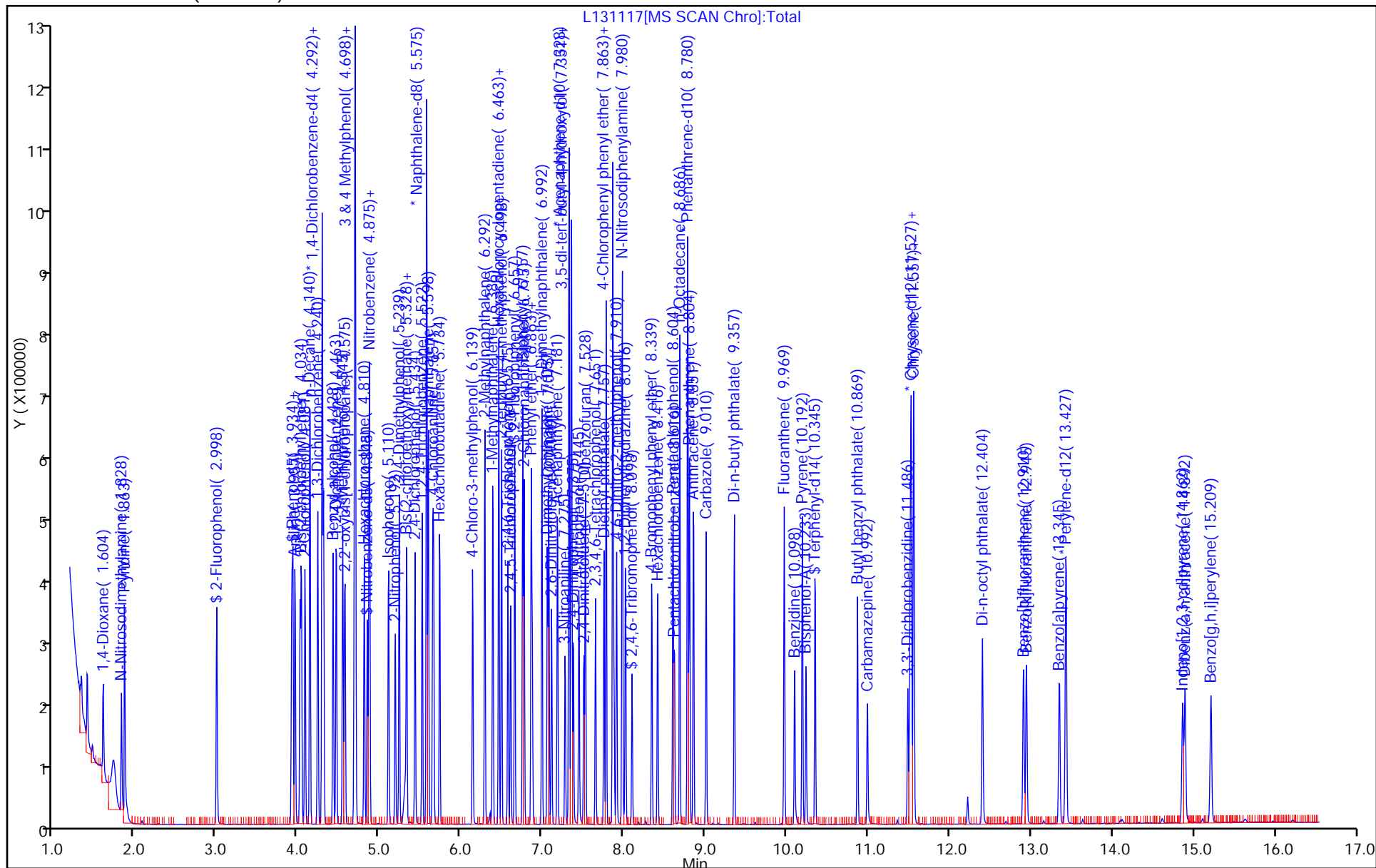
Worklist Smp#: 5

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\CBNAMS12\20160306-38074.b\L131118.D  
 Lims ID: STD10  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 06-Mar-2016 12:14:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038074-006  
 Operator ID: Instrument ID: CBNAMS12  
 Sublist: chrom-8270\_12R\_9\*sub18  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 06-Mar-2016 22:32:45 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK012

First Level Reviewer: bayoumiw

Date: 06-Mar-2016 15:08:04

| 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  | 1.604     | 1.599         | 0.005         | 98 | 20452    | 10.0          | 10.7            |       |
| 2 N-Nitrosodimethylamine      | 74  | 1.828     | 1.828         | 0.000         | 74 | 24639    | 10.0          | 9.76            |       |
| 3 Pyridine                    | 79  | 1.869     | 1.857         | 0.012         | 78 | 45039    | 10.0          | 10.2            |       |
| \$ 4 2-Fluorophenol           | 112 | 2.998     | 2.999         | -0.001        | 92 | 45564    | 10.0          | 10.3            |       |
| \$ 6 Phenol-d5                | 99  | 3.916     | 3.922         | -0.006        | 86 | 54685    | 10.0          | 9.89            |       |
| 7 Phenol                      | 94  | 3.928     | 3.940         | -0.012        | 97 | 55761    | 10.0          | 10.1            |       |
| 8 Aniline                     | 93  | 3.957     | 3.963         | -0.006        | 98 | 66472    | 10.0          | 10.3            |       |
| 9 Bis(2-chloroethyl)ether     | 93  | 4.022     | 4.022         | 0.000         | 93 | 45210    | 10.0          | 10.2            |       |
| 10 2-Chlorophenol             | 128 | 4.081     | 4.087         | -0.006        | 93 | 47340    | 10.0          | 10.3            |       |
| 11 n-Decane                   | 43  | 4.140     | 4.140         | 0.000         | 97 | 81016    | 10.0          | 10.3            |       |
| 12 1,3-Dichlorobenzene        | 146 | 4.240     | 4.240         | 0.000         | 94 | 53780    | 10.0          | 10.4            |       |
| * 13 1,4-Dichlorobenzene-d4   | 152 | 4.292     | 4.293         | -0.001        | 97 | 130919   | 40.0          | 40.0            |       |
| 14 1,4-Dichlorobenzene        | 146 | 4.310     | 4.310         | 0.000         | 96 | 51729    | 10.0          | 10.2            |       |
| 15 Benzyl alcohol             | 108 | 4.428     | 4.428         | 0.000         | 91 | 27089    | 10.0          | 9.97            |       |
| 16 1,2-Dichlorobenzene        | 146 | 4.469     | 4.469         | 0.000         | 94 | 51392    | 10.0          | 10.5            |       |
| 17 2-Methylphenol             | 108 | 4.545     | 4.546         | -0.001        | 87 | 40844    | 10.0          | 10.4            |       |
| 18 2,2'-oxybis[1-chloropropan | 45  | 4.569     | 4.575         | -0.006        | 92 | 95840    | 10.0          | 10.3            |       |
| 22 Acetophenone               | 105 | 4.692     | 4.698         | -0.006        | 95 | 56302    | 10.0          | 10.3            |       |
| 19 4-Methylphenol             | 108 | 4.698     | 4.704         | -0.006        | 90 | 43426    | 10.0          | 10.5            |       |
| 20 3 & 4 Methylphenol         | 108 | 4.698     | 4.704         | -0.006        | 94 | 43426    | 10.0          | 10.5            |       |
| 21 N-Nitrosodi-n-propylamine  | 70  | 4.698     | 4.704         | -0.006        | 95 | 28481    | 10.0          | 10.0            |       |
| 25 Hexachloroethane           | 117 | 4.810     | 4.810         | 0.000         | 95 | 22125    | 10.0          | 9.94            |       |
| \$ 26 Nitrobenzene-d5         | 82  | 4.845     | 4.851         | -0.006        | 92 | 47395    | 10.0          | 10.0            |       |
| 27 Nitrobenzene               | 77  | 4.869     | 4.875         | -0.006        | 89 | 64067    | 10.0          | 10.6            |       |
| 28 n,n'-Dimethylaniline       | 120 | 4.875     | 4.881         | -0.006        | 92 | 61482    | 10.0          | 10.1            |       |
| 29 Isophorone                 | 82  | 5.104     | 5.110         | -0.006        | 99 | 74499    | 10.0          | 10.3            |       |
| 30 2-Nitrophenol              | 139 | 5.192     | 5.193         | -0.001        | 85 | 22081    | 10.0          | 10.2            |       |
| 31 2,4-Dimethylphenol         | 122 | 5.239     | 5.240         | -0.001        | 89 | 35256    | 10.0          | 10.4            |       |
| 32 Bis(2-chloroethoxy)methane | 93  | 5.328     | 5.334         | -0.006        | 95 | 47850    | 10.0          | 10.2            |       |
| 33 Benzoic acid               | 122 | 5.304     | 5.357         | -0.053        | 90 | 12276    | 10.0          | 8.95            |       |
| 34 2,4-Dichlorophenol         | 162 | 5.434     | 5.440         | -0.006        | 93 | 33809    | 10.0          | 10.4            |       |

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|---------------|-----------------|-------|
| 35 1,2,4-Trichlorobenzene     | 180 | 5.522     | 5.522         | 0.000         | 94  | 39425    | 10.0          | 10.4            |       |
| * 36 Naphthalene-d8           | 136 | 5.575     | 5.581         | -0.006        | 100 | 445423   | 40.0          | 40.0            |       |
| 37 Naphthalene                | 128 | 5.598     | 5.598         | 0.000         | 99  | 116885   | 10.0          | 10.5            |       |
| 38 4-Chloroaniline            | 127 | 5.651     | 5.651         | 0.000         | 96  | 48266    | 10.0          | 10.6            |       |
| 39 Hexachlorobutadiene        | 225 | 5.734     | 5.740         | -0.006        | 94  | 24490    | 10.0          | 10.4            |       |
| 41 4-Chloro-3-methylphenol    | 107 | 6.139     | 6.145         | -0.006        | 98  | 32313    | 10.0          | 10.2            |       |
| 42 2-Methylnaphthalene        | 142 | 6.292     | 6.293         | 0.000         | 84  | 75335    | 10.0          | 10.5            |       |
| 43 1-Methylnaphthalene        | 142 | 6.386     | 6.392         | -0.006        | 93  | 66041    | 10.0          | 10.6            |       |
| 44 Hexachlorocyclopentadiene  | 237 | 6.463     | 6.463         | 0.000         | 66  | 18292    | 10.0          | 9.36            |       |
| 45 1,2,4,5-Tetrachlorobenzene | 216 | 6.463     | 6.463         | 0.000         | 95  | 35323    | 10.0          | 10.6            |       |
| 46 2-tertbutyl-4-methylphenol | 149 | 6.498     | 6.498         | 0.000         | 90  | 49745    | 10.0          | 10.4            |       |
| 48 2,4,6-Trichlorophenol      | 196 | 6.575     | 6.575         | 0.000         | 88  | 22483    | 10.0          | 10.5            |       |
| 49 2,4,5-Trichlorophenol      | 196 | 6.610     | 6.610         | 0.000         | 93  | 23349    | 10.0          | 10.2            |       |
| \$ 50 2-Fluorobiphenyl        | 172 | 6.657     | 6.663         | -0.006        | 97  | 79290    | 10.0          | 10.1            |       |
| 51 1,1'-Biphenyl              | 154 | 6.757     | 6.757         | 0.000         | 95  | 86625    | 10.0          | 10.6            |       |
| 52 2-Chloronaphthalene        | 162 | 6.775     | 6.775         | 0.000         | 96  | 69350    | 10.0          | 10.6            |       |
| 53 Phenyl ether               | 170 | 6.863     | 6.863         | 0.000         | 86  | 44212    | 10.0          | 10.4            |       |
| 54 2-Nitroaniline             | 65  | 6.869     | 6.875         | -0.006        | 88  | 24801    | 10.0          | 10.1            |       |
| 55 1,3-Dimethylnaphthalene    | 156 | 6.992     | 6.992         | 0.000         | 90  | 54367    | 10.0          | 10.6            |       |
| 58 Dimethyl phthalate         | 163 | 7.057     | 7.063         | -0.006        | 98  | 68576    | 10.0          | 10.2            |       |
| 59 Coumarin                   | 146 | 7.075     | 7.081         | -0.006        | 79  | 21477    | 10.0          | 9.85            |       |
| 60 2,6-Dinitrotoluene         | 165 | 7.110     | 7.116         | -0.006        | 82  | 15205    | 10.0          | 9.88            |       |
| 61 Acenaphthylene             | 152 | 7.180     | 7.187         | -0.007        | 97  | 100440   | 10.0          | 10.6            |       |
| 62 3-Nitroaniline             | 138 | 7.275     | 7.281         | -0.006        | 89  | 15563    | 10.0          | 9.56            |       |
| * 63 Acenaphthene-d10         | 164 | 7.328     | 7.328         | 0.000         | 92  | 218038   | 40.0          | 40.0            |       |
| 64 3,5-di-tert-butyl-4-hydrox | 205 | 7.351     | 7.357         | -0.006        | 69  | 54622    | 10.0          | 10.1            |       |
| 65 Acenaphthene               | 154 | 7.357     | 7.363         | -0.006        | 83  | 59981    | 10.0          | 10.5            |       |
| 66 2,4-Dinitrophenol          | 184 | 7.375     | 7.387         | -0.012        | 45  | 14100    | 20.0          | 18.9            |       |
| 67 4-Nitrophenol              | 65  | 7.445     | 7.457         | -0.012        | 90  | 23409    | 20.0          | 17.4            |       |
| 68 2,4-Dinitrotoluene         | 165 | 7.510     | 7.510         | 0.000         | 91  | 19107    | 10.0          | 10.1            |       |
| 69 Dibenzofuran               | 168 | 7.528     | 7.528         | 0.000         | 88  | 88262    | 10.0          | 10.3            |       |
| 70 2,3,4,6-Tetrachlorophenol  | 232 | 7.651     | 7.651         | 0.000         | 89  | 16772    | 10.0          | 9.74            |       |
| 71 Diethyl phthalate          | 149 | 7.751     | 7.763         | -0.012        | 95  | 67126    | 10.0          | 10.0            |       |
| 73 4-Chlorophenyl phenyl ethe | 204 | 7.863     | 7.863         | 0.000         | 71  | 32228    | 10.0          | 10.4            |       |
| 74 Fluorene                   | 166 | 7.863     | 7.869         | -0.006        | 82  | 69450    | 10.0          | 10.4            |       |
| 75 4-Nitroaniline             | 138 | 7.875     | 7.887         | -0.011        | 92  | 14471    | 10.0          | 9.66            |       |
| 76 4,6-Dinitro-2-methylphenol | 198 | 7.910     | 7.916         | -0.006        | 81  | 19996    | 20.0          | 19.3            |       |
| 77 N-Nitrosodiphenylamine     | 169 | 7.975     | 7.987         | -0.011        | 68  | 94917    | 20.0          | 21.6            |       |
| 78 1,2-Diphenylhydrazine      | 77  | 8.016     | 8.022         | -0.006        | 99  | 72509    | 10.0          | 10.6            |       |
| \$ 79 2,4,6-Tribromophenol    | 330 | 8.098     | 8.104         | -0.006        | 90  | 11428    | 10.0          | 9.75            |       |
| 80 4-Bromophenyl phenyl ether | 248 | 8.345     | 8.345         | 0.000         | 87  | 17953    | 10.0          | 10.3            |       |
| 81 Hexachlorobenzene          | 284 | 8.416     | 8.416         | 0.000         | 97  | 21836    | 10.0          | 10.3            |       |
| 83 Pentachlorophenol          | 266 | 8.604     | 8.604         | 0.000         | 93  | 22735    | 20.0          | 20.3            |       |
| 84 Pentachloronitrobenzene    | 237 | 8.616     | 8.622         | -0.006        | 87  | 8477     | 10.0          | 10.3            |       |
| 72 n-Octadecane               | 57  | 8.686     | 8.686         | 0.000         | 94  | 60719    | 10.0          | 10.4            |       |
| * 85 Phenanthrene-d10         | 188 | 8.780     | 8.786         | -0.006        | 99  | 300999   | 40.0          | 40.0            |       |
| 86 Phenanthrene               | 178 | 8.804     | 8.810         | -0.006        | 98  | 88036    | 10.0          | 10.2            |       |
| 87 Anthracene                 | 178 | 8.851     | 8.857         | -0.006        | 98  | 91043    | 10.0          | 10.4            |       |
| 88 Carbazole                  | 167 | 9.010     | 9.016         | -0.006        | 96  | 75936    | 10.0          | 10.1            |       |
| 89 Di-n-butyl phthalate       | 149 | 9.357     | 9.357         | 0.000         | 100 | 95556    | 10.0          | 9.79            |       |
| 90 Fluoranthene               | 202 | 9.969     | 9.975         | -0.006        | 97  | 82606    | 10.0          | 10.0            |       |
| 91 Benzidine                  | 184 | 10.098    | 10.098        | 0.000         | 100 | 41120    | 10.0          | 8.33            |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|--------------------------------|-----|-----------|---------------|---------------|-----|----------|---------------|-----------------|-------|
| 92 Pyrene                      | 202 | 10.192    | 10.198        | -0.006        | 97  | 85963    | 10.0          | 10.1            |       |
| 93 Bisphenol-A                 | 213 | 10.239    | 10.239        | 0.000         | 100 | 32993    | 10.0          | 9.72            |       |
| \$ 94 Terphenyl-d14            | 244 | 10.351    | 10.351        | 0.000         | 99  | 58741    | 10.0          | 10.1            |       |
| 95 Butyl benzyl phthalate      | 149 | 10.868    | 10.875        | -0.007        | 97  | 34498    | 10.0          | 9.42            |       |
| 97 Carbamazepine               | 193 | 10.986    | 10.998        | -0.012        | 92  | 23034    | 10.0          | 9.75            |       |
| 98 3,3'-Dichlorobenzidine      | 252 | 11.486    | 11.492        | -0.006        | 98  | 22667    | 10.0          | 9.47            |       |
| 99 Benzo[a]anthracene          | 228 | 11.516    | 11.522        | -0.006        | 98  | 68883    | 10.0          | 10.0            |       |
| * 100 Chrysene-d12             | 240 | 11.527    | 11.533        | -0.006        | 99  | 221911   | 40.0          | 40.0            |       |
| 102 Bis(2-ethylhexyl) phthalat | 149 | 11.557    | 11.563        | -0.006        | 89  | 48352    | 10.0          | 9.93            |       |
| 101 Chrysene                   | 228 | 11.557    | 11.563        | -0.006        | 98  | 62008    | 10.0          | 10.1            |       |
| 103 Di-n-octyl phthalate       | 149 | 12.404    | 12.404        | 0.000         | 97  | 77148    | 10.0          | 9.86            |       |
| 104 Benzo[b]fluoranthene       | 252 | 12.904    | 12.916        | -0.012        | 99  | 59635    | 10.0          | 10.2            |       |
| 105 Benzo[k]fluoranthene       | 252 | 12.945    | 12.951        | -0.006        | 99  | 62964    | 10.0          | 10.2            |       |
| 106 Benzo[a]pyrene             | 252 | 13.345    | 13.357        | -0.012        | 97  | 57233    | 10.0          | 10.4            |       |
| * 107 Perylene-d12             | 264 | 13.427    | 13.433        | -0.006        | 99  | 198447   | 40.0          | 40.0            |       |
| 108 Indeno[1,2,3-cd]pyrene     | 276 | 14.862    | 14.874        | -0.012        | 99  | 55236    | 10.0          | 10.5            | M     |
| 109 Dibenz(a,h)anthracene      | 278 | 14.886    | 14.898        | -0.012        | 96  | 52972    | 10.0          | 10.6            |       |
| 110 Benzo[g,h,i]perylene       | 276 | 15.209    | 15.221        | -0.012        | 96  | 53655    | 10.0          | 9.80            |       |
| S 117 Total Cresols            | 1   |           |               |               | 0   |          |               | 20.9            |       |

**QC Flag Legend**

Review Flags

M - Manually Integrated

**Reagents:**

SV\_IC\_BNA\_L4\_00010

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS12\\20160306-38074.b\\L131118.D

Injection Date: 06-Mar-2016 12:14:30

Instrument ID: CBNAMS12

Operator ID:

Lims ID: STD10

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

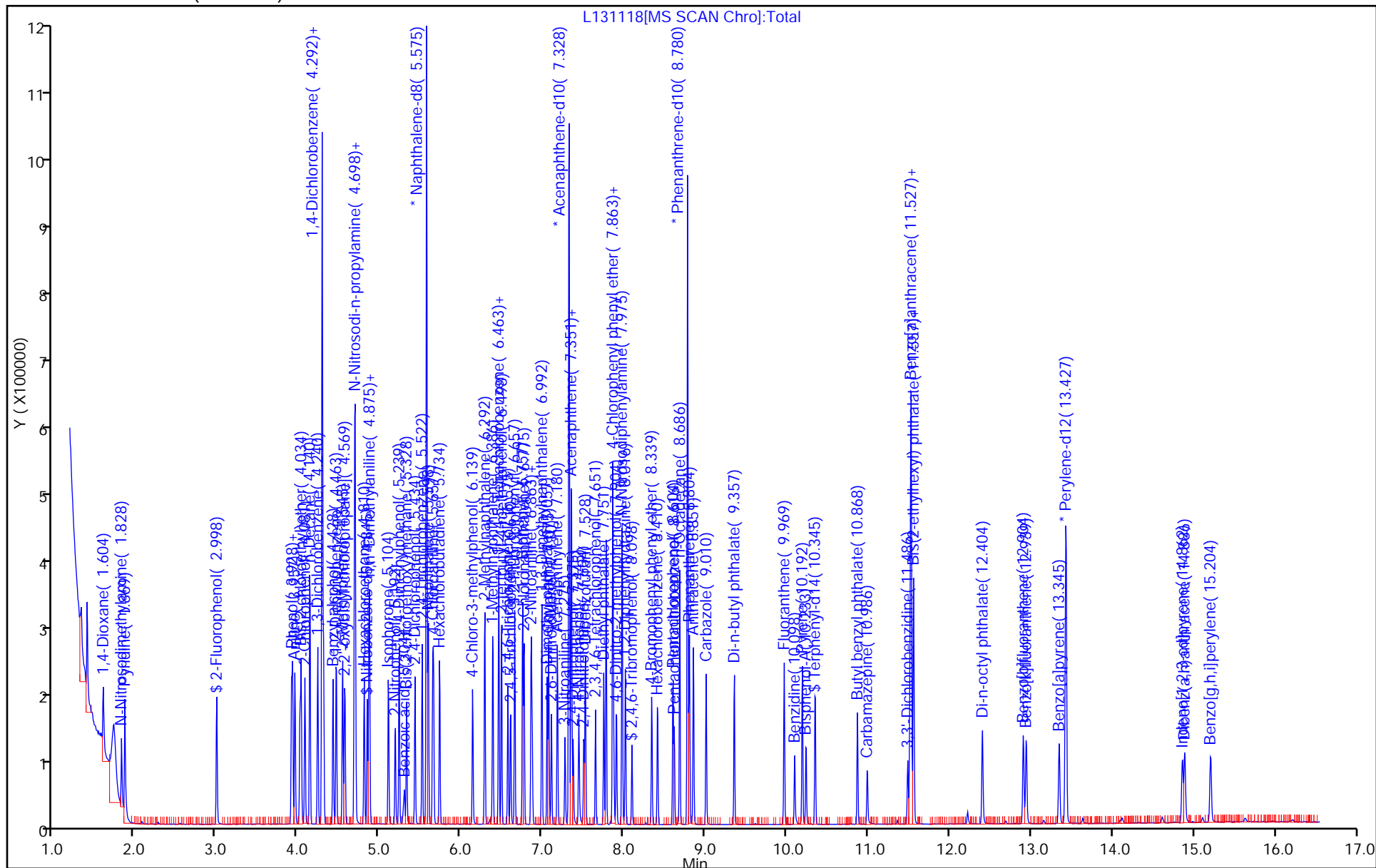
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8270\_12R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)





## TestAmerica Edison

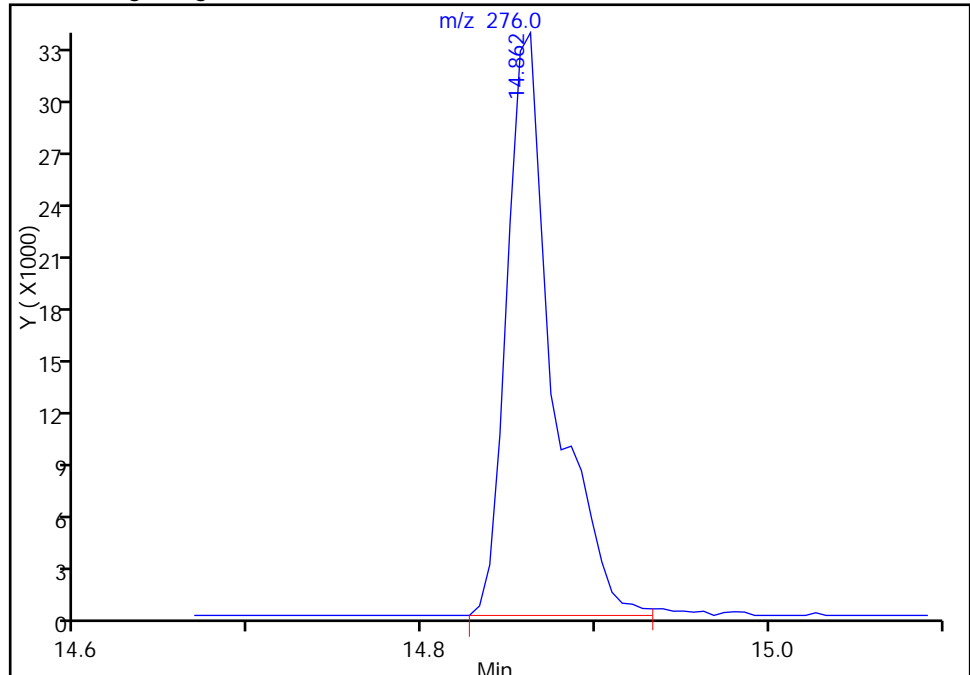
Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131118.D  
Injection Date: 06-Mar-2016 12:14:30 Instrument ID: CBNAMS12  
Lims ID: STD10  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_12R\_9  
Column: Rtxi-5Sil MS (0.25 mm)

ALS Bottle#: 6 Worklist Smp#: 6  
Dil. Factor: 1.0000  
Limit Group: SV 8270D ICAL  
Detector: MS SCAN

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

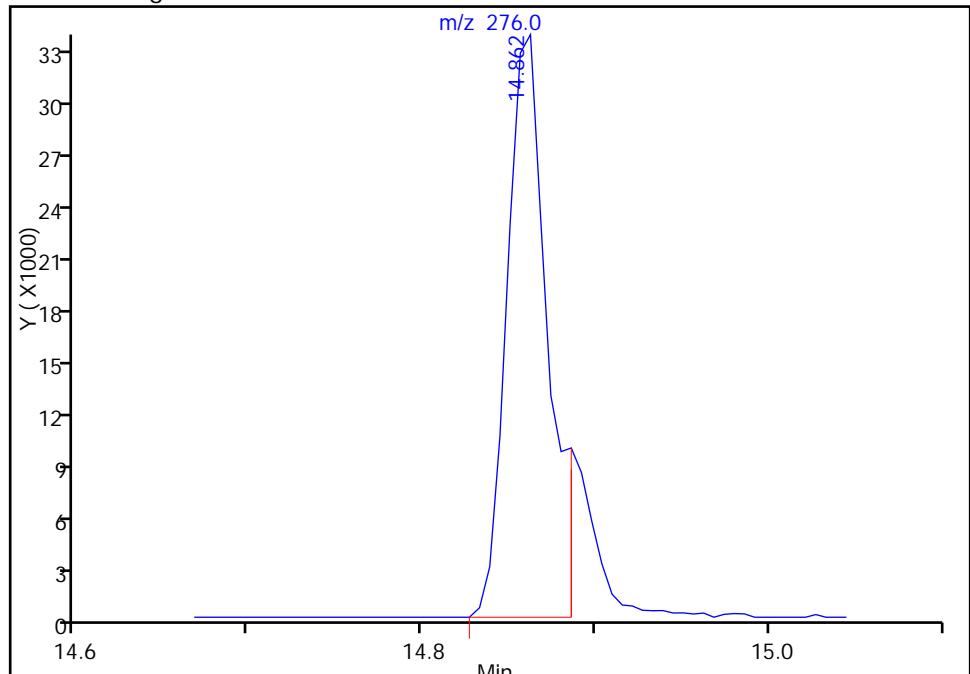
RT: 14.86  
Area: 62399  
Amount: 11.649936  
Amount Units: ug/ml

## Processing Integration Results



RT: 14.86  
Area: 55236  
Amount: 10.468148  
Amount Units: ug/ml

## Manual Integration Results



Reviewer: bayoumiw, 06-Mar-2016 15:08:04  
Audit Action: Split an Integrated Peak  
Audit Reason: Split Peak



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131119.D  
 Lims ID: STD5  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 06-Mar-2016 12:39:30 ALS Bottle#: 7 Worklist Smp#: 7  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038074-007  
 Operator ID: Instrument ID: CBNAMS12  
 Sublist: chrom-8270\_12R\_9\*sub18  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 06-Mar-2016 22:32:56 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK012

First Level Reviewer: bayoumiw

Date: 06-Mar-2016 15:09:00

| 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  | 1.605     | 1.599         | 0.005         | 97 | 11473    | 5.00          | 5.51            |       |
| 2 N-Nitrosodimethylamine      | 74  | 1.834     | 1.828         | 0.006         | 72 | 13078    | 5.00          | 4.76            |       |
| 3 Pyridine                    | 79  | 1.875     | 1.857         | 0.018         | 74 | 23345    | 5.00          | 4.85            |       |
| \$ 4 2-Fluorophenol           | 112 | 2.999     | 2.999         | 0.000         | 92 | 24935    | 5.00          | 5.15            |       |
| \$ 6 Phenol-d5                | 99  | 3.916     | 3.922         | -0.006        | 85 | 30482    | 5.00          | 5.06            |       |
| 7 Phenol                      | 94  | 3.928     | 3.940         | -0.012        | 97 | 29974    | 5.00          | 5.00            |       |
| 8 Aniline                     | 93  | 3.957     | 3.963         | -0.006        | 98 | 34316    | 5.00          | 4.89            |       |
| 9 Bis(2-chloroethyl)ether     | 93  | 4.022     | 4.022         | 0.000         | 93 | 24521    | 5.00          | 5.06            |       |
| 10 2-Chlorophenol             | 128 | 4.081     | 4.087         | -0.006        | 92 | 24707    | 5.00          | 4.95            |       |
| 11 n-Decane                   | 43  | 4.140     | 4.140         | 0.000         | 96 | 44143    | 5.00          | 5.17            |       |
| 12 1,3-Dichlorobenzene        | 146 | 4.240     | 4.240         | 0.000         | 94 | 29543    | 5.00          | 5.23            |       |
| * 13 1,4-Dichlorobenzene-d4   | 152 | 4.293     | 4.293         | 0.000         | 97 | 142532   | 40.0          | 40.0            |       |
| 14 1,4-Dichlorobenzene        | 146 | 4.310     | 4.310         | 0.000         | 93 | 28071    | 5.00          | 5.07            |       |
| 15 Benzyl alcohol             | 108 | 4.428     | 4.428         | 0.000         | 91 | 14324    | 5.00          | 4.84            |       |
| 16 1,2-Dichlorobenzene        | 146 | 4.469     | 4.469         | 0.000         | 94 | 26955    | 5.00          | 5.06            |       |
| 17 2-Methylphenol             | 108 | 4.545     | 4.546         | -0.001        | 86 | 21504    | 5.00          | 5.03            |       |
| 18 2,2'-oxybis[1-chloropropan | 45  | 4.569     | 4.575         | -0.006        | 92 | 51202    | 5.00          | 5.07            |       |
| 22 Acetophenone               | 105 | 4.693     | 4.698         | -0.005        | 83 | 30872    | 5.00          | 5.17            |       |
| 19 4-Methylphenol             | 108 | 4.698     | 4.704         | -0.006        | 88 | 24014    | 5.00          | 5.35            |       |
| 20 3 & 4 Methylphenol         | 108 | 4.698     | 4.704         | -0.006        | 87 | 24014    | 5.00          | 5.35            |       |
| 21 N-Nitrosodi-n-propylamine  | 70  | 4.698     | 4.704         | -0.006        | 94 | 15289    | 5.00          | 4.93            |       |
| 25 Hexachloroethane           | 117 | 4.810     | 4.810         | 0.000         | 94 | 12073    | 5.00          | 4.98            |       |
| \$ 26 Nitrobenzene-d5         | 82  | 4.845     | 4.851         | -0.006        | 91 | 25962    | 5.00          | 5.01            |       |
| 27 Nitrobenzene               | 77  | 4.869     | 4.875         | -0.006        | 89 | 34163    | 5.00          | 5.16            |       |
| 28 n,n'-Dimethylaniline       | 120 | 4.875     | 4.881         | -0.006        | 93 | 34243    | 5.00          | 5.15            |       |
| 29 Isophorone                 | 82  | 5.104     | 5.110         | -0.006        | 99 | 39600    | 5.00          | 4.98            |       |
| 30 2-Nitrophenol              | 139 | 5.193     | 5.193         | -0.001        | 85 | 11218    | 5.00          | 4.73            |       |
| 31 2,4-Dimethylphenol         | 122 | 5.240     | 5.240         | 0.000         | 88 | 18990    | 5.00          | 5.11            |       |
| 32 Bis(2-chloroethoxy)methane | 93  | 5.328     | 5.334         | -0.006        | 95 | 26190    | 5.00          | 5.12            |       |
| 33 Benzoic acid               | 122 | 5.293     | 5.357         | -0.065        | 86 | 4790     | 5.00          | 5.27            |       |
| 34 2,4-Dichlorophenol         | 162 | 5.434     | 5.440         | -0.006        | 93 | 17231    | 5.00          | 4.84            |       |

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|---------------|-----------------|-------|
| 35 1,2,4-Trichlorobenzene     | 180 | 5.522     | 5.522         | 0.000         | 95  | 21280    | 5.00          | 5.14            |       |
| * 36 Naphthalene-d8           | 136 | 5.575     | 5.581         | -0.006        | 100 | 487310   | 40.0          | 40.0            |       |
| 37 Naphthalene                | 128 | 5.598     | 5.598         | 0.000         | 99  | 61545    | 5.00          | 5.05            |       |
| 38 4-Chloroaniline            | 127 | 5.651     | 5.651         | 0.000         | 96  | 24448    | 5.00          | 4.89            |       |
| 39 Hexachlorobutadiene        | 225 | 5.740     | 5.740         | 0.000         | 93  | 12627    | 5.00          | 4.89            |       |
| 41 4-Chloro-3-methylphenol    | 107 | 6.140     | 6.145         | -0.005        | 98  | 16695    | 5.00          | 4.81            |       |
| 42 2-Methylnaphthalene        | 142 | 6.292     | 6.293         | 0.000         | 85  | 40058    | 5.00          | 5.09            |       |
| 43 1-Methylnaphthalene        | 142 | 6.387     | 6.392         | -0.005        | 93  | 34131    | 5.00          | 5.02            |       |
| 44 Hexachlorocyclopentadiene  | 237 | 6.463     | 6.463         | 0.000         | 73  | 9092     | 5.00          | 4.34            |       |
| 45 1,2,4,5-Tetrachlorobenzene | 216 | 6.463     | 6.463         | 0.000         | 96  | 19414    | 5.00          | 5.43            |       |
| 46 2-tertbutyl-4-methylphenol | 149 | 6.498     | 6.498         | 0.000         | 89  | 25850    | 5.00          | 4.92            |       |
| 48 2,4,6-Trichlorophenol      | 196 | 6.575     | 6.575         | 0.000         | 89  | 11194    | 5.00          | 4.86            |       |
| 49 2,4,5-Trichlorophenol      | 196 | 6.610     | 6.610         | 0.000         | 95  | 12173    | 5.00          | 4.97            |       |
| \$ 50 2-Fluorobiphenyl        | 172 | 6.657     | 6.663         | -0.006        | 97  | 44579    | 5.00          | 5.31            |       |
| 51 1,1'-Biphenyl              | 154 | 6.757     | 6.757         | 0.000         | 95  | 45473    | 5.00          | 5.19            |       |
| 52 2-Chloronaphthalene        | 162 | 6.775     | 6.775         | 0.000         | 98  | 36884    | 5.00          | 5.24            |       |
| 53 Phenyl ether               | 170 | 6.863     | 6.863         | 0.000         | 91  | 23951    | 5.00          | 5.24            |       |
| 54 2-Nitroaniline             | 65  | 6.875     | 6.875         | 0.000         | 94  | 12568    | 5.00          | 4.76            |       |
| 55 1,3-Dimethylnaphthalene    | 156 | 6.992     | 6.992         | 0.000         | 92  | 28975    | 5.00          | 5.29            |       |
| 58 Dimethyl phthalate         | 163 | 7.057     | 7.063         | -0.006        | 99  | 35989    | 5.00          | 5.01            |       |
| 59 Coumarin                   | 146 | 7.075     | 7.081         | -0.006        | 79  | 11137    | 5.00          | 4.67            |       |
| 60 2,6-Dinitrotoluene         | 165 | 7.110     | 7.116         | -0.006        | 90  | 8017     | 5.00          | 4.86            |       |
| 61 Acenaphthylene             | 152 | 7.181     | 7.187         | -0.006        | 97  | 52290    | 5.00          | 5.13            |       |
| 62 3-Nitroaniline             | 138 | 7.275     | 7.281         | -0.006        | 94  | 7940     | 5.00          | 4.55            |       |
| * 63 Acenaphthene-d10         | 164 | 7.328     | 7.328         | 0.000         | 92  | 233850   | 40.0          | 40.0            |       |
| 64 3,5-di-tert-butyl-4-hydrox | 205 | 7.351     | 7.357         | -0.006        | 97  | 29168    | 5.00          | 5.05            |       |
| 65 Acenaphthene               | 154 | 7.357     | 7.363         | -0.006        | 96  | 31829    | 5.00          | 5.20            |       |
| 66 2,4-Dinitrophenol          | 184 | 7.375     | 7.387         | -0.012        | 93  | 5821     | 10.0          | 9.57            |       |
| 67 4-Nitrophenol              | 65  | 7.445     | 7.457         | -0.012        | 89  | 12597    | 10.0          | 8.72            |       |
| 68 2,4-Dinitrotoluene         | 165 | 7.504     | 7.510         | -0.006        | 94  | 10237    | 5.00          | 5.07            |       |
| 69 Dibenzofuran               | 168 | 7.528     | 7.528         | 0.000         | 96  | 47466    | 5.00          | 5.18            |       |
| 70 2,3,4,6-Tetrachlorophenol  | 232 | 7.651     | 7.651         | 0.000         | 92  | 8528     | 5.00          | 4.62            |       |
| 71 Diethyl phthalate          | 149 | 7.751     | 7.763         | -0.012        | 97  | 34651    | 5.00          | 4.81            |       |
| 73 4-Chlorophenyl phenyl ethe | 204 | 7.863     | 7.863         | 0.000         | 77  | 17503    | 5.00          | 5.27            |       |
| 74 Fluorene                   | 166 | 7.863     | 7.869         | -0.006        | 94  | 37642    | 5.00          | 5.26            |       |
| 75 4-Nitroaniline             | 138 | 7.875     | 7.887         | -0.011        | 94  | 7294     | 5.00          | 4.54            |       |
| 76 4,6-Dinitro-2-methylphenol | 198 | 7.910     | 7.916         | -0.006        | 79  | 9541     | 10.0          | 9.34            |       |
| 77 N-Nitrosodiphenylamine     | 169 | 7.975     | 7.987         | -0.011        | 68  | 49457    | 10.0          | 10.1            |       |
| 78 1,2-Diphenylhydrazine      | 77  | 8.016     | 8.022         | -0.006        | 100 | 38753    | 5.00          | 5.09            |       |
| \$ 79 2,4,6-Tribromophenol    | 330 | 8.098     | 8.104         | -0.006        | 94  | 5716     | 5.00          | 4.73            |       |
| 80 4-Bromophenyl phenyl ether | 248 | 8.339     | 8.345         | -0.006        | 83  | 9527     | 5.00          | 4.93            |       |
| 81 Hexachlorobenzene          | 284 | 8.416     | 8.416         | 0.000         | 98  | 11446    | 5.00          | 4.86            |       |
| 83 Pentachlorophenol          | 266 | 8.604     | 8.604         | 0.000         | 93  | 11349    | 10.0          | 9.11            |       |
| 84 Pentachloronitrobenzene    | 237 | 8.616     | 8.622         | -0.006        | 86  | 4655     | 5.00          | 5.09            |       |
| 72 n-Octadecane               | 57  | 8.686     | 8.686         | 0.000         | 94  | 32003    | 5.00          | 4.92            |       |
| * 85 Phenanthrene-d10         | 188 | 8.781     | 8.786         | -0.006        | 99  | 334562   | 40.0          | 40.0            |       |
| 86 Phenanthrene               | 178 | 8.804     | 8.810         | -0.006        | 97  | 49512    | 5.00          | 5.18            |       |
| 87 Anthracene                 | 178 | 8.851     | 8.857         | -0.006        | 98  | 48230    | 5.00          | 4.97            |       |
| 88 Carbazole                  | 167 | 9.010     | 9.016         | -0.006        | 96  | 40984    | 5.00          | 4.92            |       |
| 89 Di-n-butyl phthalate       | 149 | 9.357     | 9.357         | 0.000         | 99  | 53528    | 5.00          | 4.94            |       |
| 90 Fluoranthene               | 202 | 9.969     | 9.975         | -0.006        | 97  | 46054    | 5.00          | 5.01            |       |
| 91 Benzidine                  | 184 | 10.098    | 10.098        | 0.000         | 99  | 21270    | 5.00          | 3.88            |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|---------------|-----------------|-------|
| 92 Pyrene                      | 202 | 10.192    | 10.198        | -0.006        | 97 | 47924    | 5.00          | 4.98            |       |
| 93 Bisphenol-A                 | 213 | 10.239    | 10.239        | 0.000         | 99 | 19426    | 5.00          | 5.05            |       |
| \$ 94 Terphenyl-d14            | 244 | 10.345    | 10.351        | -0.006        | 98 | 35355    | 5.00          | 5.36            |       |
| 95 Butyl benzyl phthalate      | 149 | 10.869    | 10.875        | -0.006        | 98 | 19344    | 5.00          | 4.66            |       |
| 97 Carbamazepine               | 193 | 10.986    | 10.998        | -0.012        | 92 | 9962     | 5.00          | 5.13            |       |
| 98 3,3'-Dichlorobenzidine      | 252 | 11.486    | 11.492        | -0.006        | 99 | 11688    | 5.00          | 4.31            |       |
| 99 Benzo[a]anthracene          | 228 | 11.516    | 11.522        | -0.006        | 98 | 38599    | 5.00          | 4.97            |       |
| * 100 Chrysene-d12             | 240 | 11.527    | 11.533        | -0.006        | 99 | 251271   | 40.0          | 40.0            |       |
| 102 Bis(2-ethylhexyl) phthalat | 149 | 11.557    | 11.563        | -0.006        | 88 | 24889    | 5.00          | 4.51            |       |
| 101 Chrysene                   | 228 | 11.557    | 11.563        | -0.006        | 99 | 35352    | 5.00          | 5.11            |       |
| 103 Di-n-octyl phthalate       | 149 | 12.404    | 12.404        | 0.000         | 97 | 35594    | 5.00          | 4.43            |       |
| 104 Benzo[b]fluoranthene       | 252 | 12.904    | 12.916        | -0.012        | 98 | 28904    | 5.00          | 4.80            |       |
| 105 Benzo[k]fluoranthene       | 252 | 12.939    | 12.951        | -0.012        | 99 | 32675    | 5.00          | 5.17            |       |
| 106 Benzo[a]pyrene             | 252 | 13.345    | 13.357        | -0.012        | 96 | 26905    | 5.00          | 4.74            |       |
| * 107 Perylene-d12             | 264 | 13.427    | 13.433        | -0.006        | 99 | 204043   | 40.0          | 40.0            |       |
| 108 Indeno[1,2,3-cd]pyrene     | 276 | 14.862    | 14.874        | -0.012        | 98 | 23431    | 5.00          | 4.32            |       |
| 109 Dibenz(a,h)anthracene      | 278 | 14.892    | 14.898        | -0.006        | 97 | 25009    | 5.00          | 4.85            |       |
| 110 Benzo[g,h,i]perylene       | 276 | 15.204    | 15.221        | -0.017        | 96 | 24939    | 5.00          | 4.43            |       |
| S 117 Total Cresols            | 1   |           |               |               | 0  |          |               | 10.4            |       |

**Reagents:**

SV\_IC\_BNA\_L3\_00012

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS12\\20160306-38074.b\\L131119.D

Injection Date: 06-Mar-2016 12:39:30

Instrument ID: CBNAMS12

Operator ID:

Lims ID: STD5

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

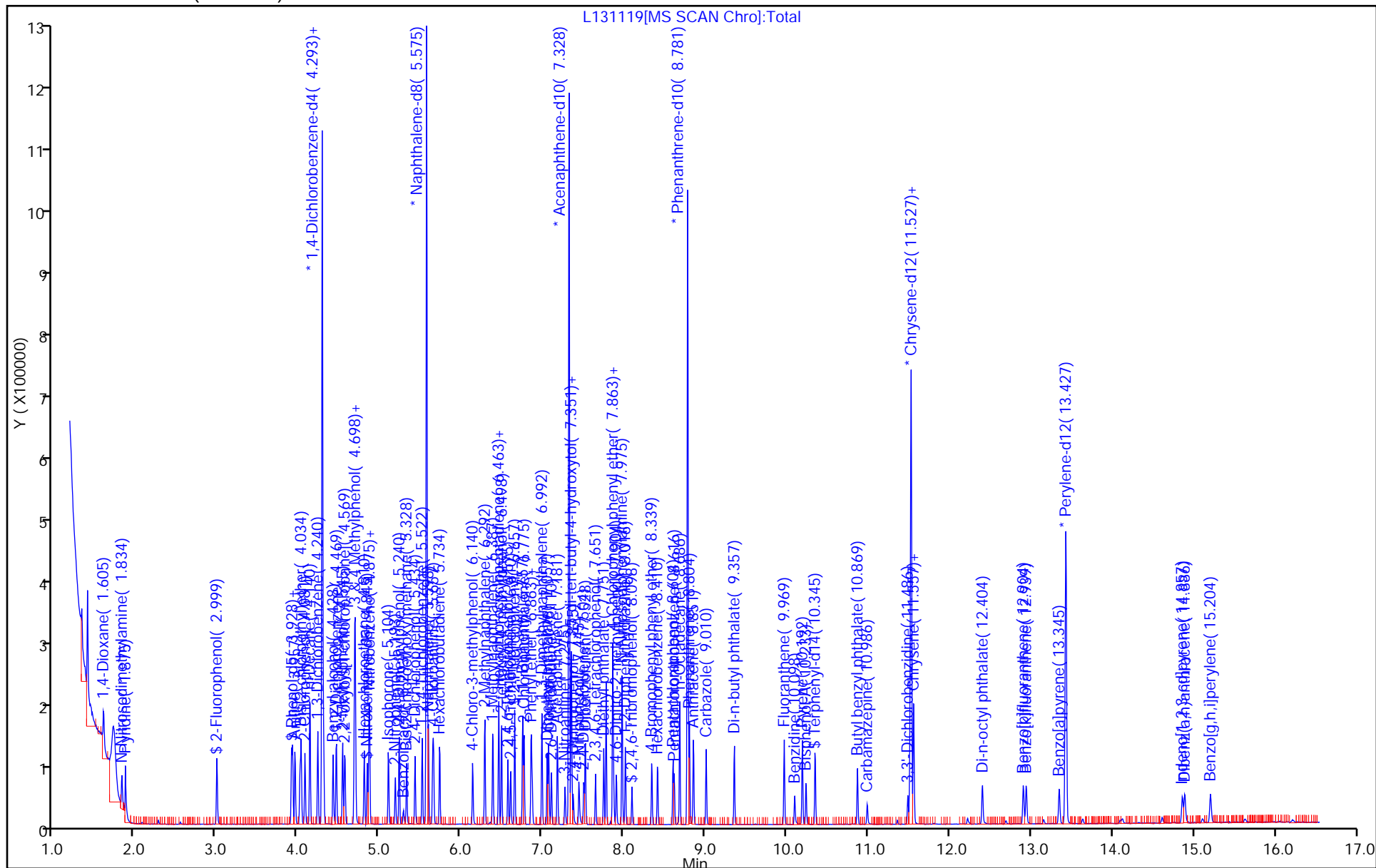
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8270\_12R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131120.D  
 Lims ID: STD2  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 06-Mar-2016 13:03:30 ALS Bottle#: 8 Worklist Smp#: 8  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038074-008  
 Operator ID: Instrument ID: CBNAMS12  
 Sublist: chrom-8270\_12R\_9\*sub18  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 06-Mar-2016 22:33:05 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK012

First Level Reviewer: bayoumiw

Date: 06-Mar-2016 15:09:50

| 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 | 2.998     | 2.999         | -0.001        | 90  | 10434    | 2.00          | 2.00            |       |
| \$ 6 Phenol-d5                | 99  | 3.916     | 3.922         | -0.006        | 85  | 14331    | 2.00          | 2.21            |       |
| 9 Bis(2-chloroethyl)ether     | 93  | 4.022     | 4.022         | 0.000         | 91  | 10808    | 2.00          | 2.07            |       |
| * 13 1,4-Dichlorobenzene-d4   | 152 | 4.292     | 4.293         | -0.001        | 97  | 153520   | 40.0          | 40.0            |       |
| 21 N-Nitrosodi-n-propylamine  | 70  | 4.698     | 4.704         | -0.006        | 95  | 7169     | 2.00          | 2.15            |       |
| 25 Hexachloroethane           | 117 | 4.810     | 4.810         | 0.000         | 94  | 5173     | 2.00          | 1.98            |       |
| \$ 26 Nitrobenzene-d5         | 82  | 4.845     | 4.851         | -0.006        | 91  | 13010    | 2.00          | 2.22            |       |
| 27 Nitrobenzene               | 77  | 4.869     | 4.875         | -0.006        | 89  | 15989    | 2.00          | 2.14            |       |
| 28 n,n'-Dimethylaniline       | 120 | 4.875     | 4.881         | -0.006        | 92  | 15395    | 2.00          | 2.15            |       |
| 29 Isophorone                 | 82  | 5.104     | 5.110         | -0.006        | 98  | 18755    | 2.00          | 2.09            |       |
| 34 2,4-Dichlorophenol         | 162 | 5.434     | 5.440         | -0.006        | 93  | 7844     | 2.00          | 1.95            |       |
| 35 1,2,4-Trichlorobenzene     | 180 | 5.522     | 5.522         | 0.000         | 94  | 10104    | 2.00          | 2.16            |       |
| * 36 Naphthalene-d8           | 136 | 5.575     | 5.581         | -0.006        | 100 | 550379   | 40.0          | 40.0            |       |
| 39 Hexachlorobutadiene        | 225 | 5.733     | 5.740         | -0.007        | 93  | 6123     | 2.00          | 2.10            |       |
| 48 2,4,6-Trichlorophenol      | 196 | 6.575     | 6.575         | 0.000         | 86  | 5013     | 2.00          | 1.89            |       |
| \$ 50 2-Fluorobiphenyl        | 172 | 6.657     | 6.663         | -0.006        | 97  | 22253    | 2.00          | 2.31            |       |
| 60 2,6-Dinitrotoluene         | 165 | 7.110     | 7.116         | -0.006        | 91  | 3819     | 2.00          | 2.01            |       |
| * 63 Acenaphthene-d10         | 164 | 7.328     | 7.328         | 0.000         | 93  | 268784   | 40.0          | 40.0            |       |
| 66 2,4-Dinitrophenol          | 184 | 7.380     | 7.387         | -0.007        | 80  | 1462     | 4.00          | 4.99            |       |
| 68 2,4-Dinitrotoluene         | 165 | 7.510     | 7.510         | 0.000         | 71  | 4199     | 2.00          | 1.81            |       |
| 76 4,6-Dinitro-2-methylphenol | 198 | 7.910     | 7.916         | -0.006        | 76  | 3345     | 4.00          | 4.11            |       |
| 77 N-Nitrosodiphenylamine     | 169 | 7.975     | 7.987         | -0.011        | 69  | 23758    | 4.00          | 4.23            |       |
| \$ 79 2,4,6-Tribromophenol    | 330 | 8.098     | 8.104         | -0.006        | 94  | 2753     | 2.00          | 2.18            |       |
| 81 Hexachlorobenzene          | 284 | 8.416     | 8.416         | 0.000         | 97  | 5311     | 2.00          | 1.96            |       |
| 83 Pentachlorophenol          | 266 | 8.604     | 8.604         | 0.000         | 91  | 3999     | 4.00          | 2.79            |       |
| * 85 Phenanthrene-d10         | 188 | 8.780     | 8.786         | -0.006        | 99  | 384859   | 40.0          | 40.0            |       |
| \$ 94 Terphenyl-d14           | 244 | 10.351    | 10.351        | 0.000         | 98  | 15155    | 2.00          | 2.20            |       |
| 98 3,3'-Dichlorobenzidine     | 252 | 11.486    | 11.492        | -0.006        | 95  | 4092     | 2.00          | 1.44            |       |
| 99 Benzo[a]anthracene         | 228 | 11.515    | 11.522        | -0.007        | 98  | 16577    | 2.00          | 2.04            |       |
| * 100 Chrysene-d12            | 240 | 11.527    | 11.533        | -0.006        | 99  | 262512   | 40.0          | 40.0            |       |
| 104 Benzo[b]fluoranthene      | 252 | 12.904    | 12.916        | -0.012        | 99  | 12147    | 2.00          | 1.96            |       |

| Compound                   | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|----------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| 105 Benzo[k]fluoranthene   | 252 | 12.945       | 12.951           | -0.006           | 78 | 13054    | 2.00             | 2.01               |       |
| 106 Benzo[a]pyrene         | 252 | 13.345       | 13.357           | -0.012           | 97 | 11401    | 2.00             | 1.96               |       |
| * 107 Perylene-d12         | 264 | 13.427       | 13.433           | -0.006           | 98 | 209386   | 40.0             | 40.0               |       |
| 108 Indeno[1,2,3-cd]pyrene | 276 | 14.862       | 14.874           | -0.012           | 99 | 9257     | 2.00             | 1.66               |       |
| 109 Dibenz(a,h)anthracene  | 278 | 14.886       | 14.898           | -0.012           | 94 | 9654     | 2.00             | 1.82               |       |

**Reagents:**

SV\_IC\_BNA\_LO\_00008

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS12\\20160306-38074.b\\L131120.D

Injection Date: 06-Mar-2016 13:03:30

Instrument ID: CBNAMS12

Operator ID:

Lims ID: STD2

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

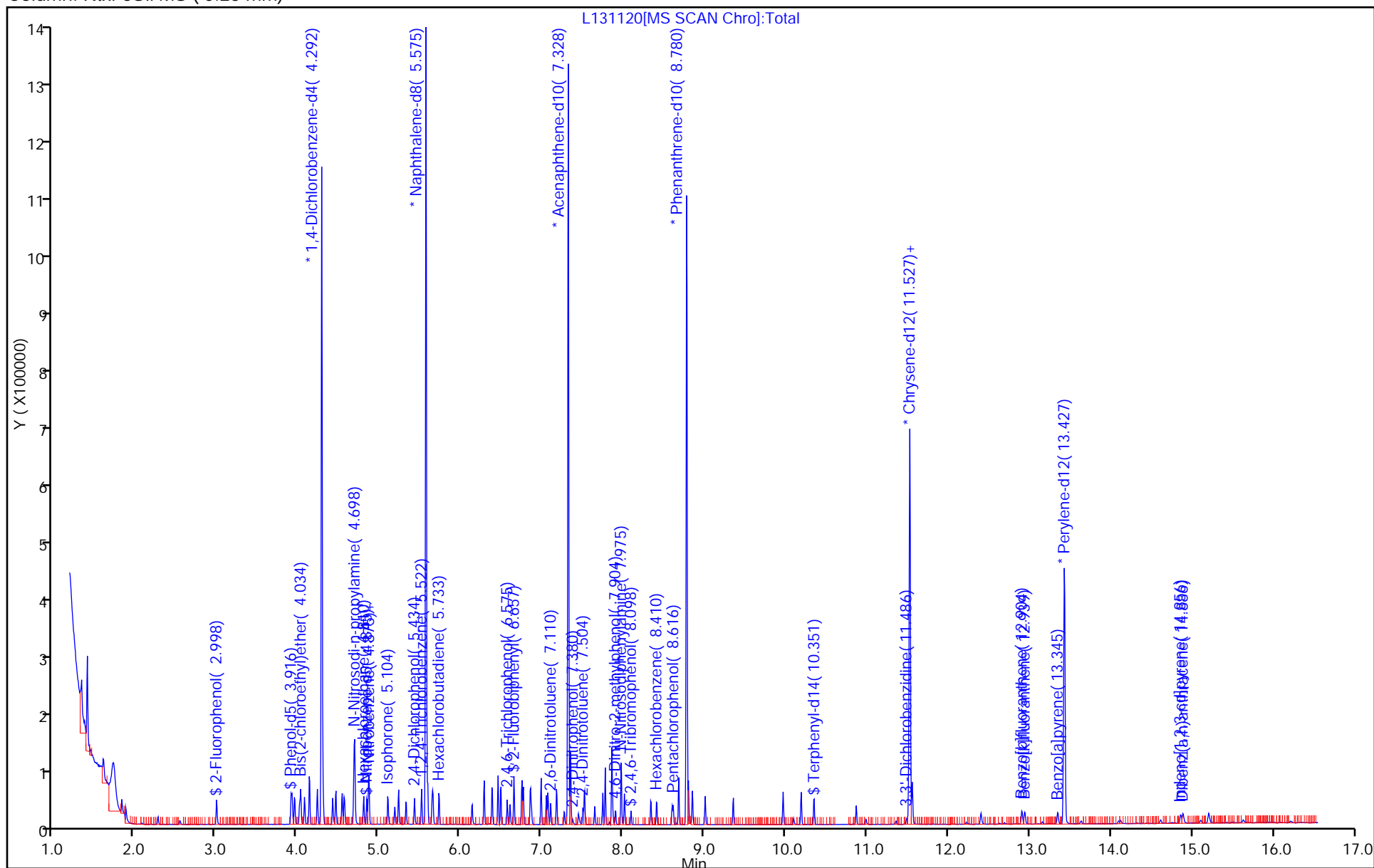
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8270\_12R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131121.D  
 Lims ID: std1  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 06-Mar-2016 13:27:30 ALS Bottle#: 9 Worklist Smp#: 9  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038074-009  
 Operator ID: Instrument ID: CBNAMS12  
 Sublist: chrom-8270\_12R\_9\*sub18  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 06-Mar-2016 22:33:16 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK012

First Level Reviewer: bayoumiw

Date: 06-Mar-2016 15:10:26

| 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 | 3.004     | 2.999         | 0.005         | 92  | 3385     | 1.00          | 0.7831          |       |
| \$ 6 Phenol-d5               | 99  | 3.916     | 3.922         | -0.006        | 84  | 4904     | 1.00          | 0.9114          |       |
| 9 Bis(2-chloroethyl)ether    | 93  | 4.022     | 4.022         | 0.000         | 95  | 4655     | 1.00          | 1.08            |       |
| * 13 1,4-Dichlorobenzene-d4  | 152 | 4.292     | 4.293         | -0.001        | 98  | 127349   | 40.0          | 40.0            |       |
| 21 N-Nitrosodi-n-propylamine | 70  | 4.698     | 4.704         | -0.006        | 96  | 2682     | 1.00          | 0.9689          |       |
| 25 Hexachloroethane          | 117 | 4.810     | 4.810         | 0.000         | 93  | 2273     | 1.00          | 1.05            |       |
| \$ 26 Nitrobenzene-d5        | 82  | 4.851     | 4.851         | 0.000         | 90  | 4320     | 1.00          | 0.9327          |       |
| 27 Nitrobenzene              | 77  | 4.869     | 4.875         | -0.006        | 87  | 5744     | 1.00          | 0.9701          |       |
| 28 n,n'-Dimethylaniline      | 120 | 4.875     | 4.881         | -0.006        | 91  | 5744     | 1.00          | 0.9673          |       |
| 35 1,2,4-Trichlorobenzene    | 180 | 5.522     | 5.522         | 0.000         | 92  | 3618     | 1.00          | 0.9771          |       |
| * 36 Naphthalene-d8          | 136 | 5.575     | 5.581         | -0.006        | 100 | 435669   | 40.0          | 40.0            |       |
| 39 Hexachlorobutadiene       | 225 | 5.739     | 5.740         | -0.001        | 92  | 2415     | 1.00          | 1.05            |       |
| \$ 50 2-Fluorobiphenyl       | 172 | 6.657     | 6.663         | -0.006        | 96  | 7022     | 1.00          | 0.9343          |       |
| 60 2,6-Dinitrotoluene        | 165 | 7.110     | 7.116         | -0.006        | 91  | 1333     | 1.00          | 0.9022          |       |
| * 63 Acenaphthene-d10        | 164 | 7.328     | 7.328         | 0.000         | 93  | 209334   | 40.0          | 40.0            |       |
| 68 2,4-Dinitrotoluene        | 165 | 7.510     | 7.510         | 0.000         | 32  | 1387     | 1.00          | 0.7670          |       |
| \$ 79 2,4,6-Tribromophenol   | 330 | 8.104     | 8.104         | 0.000         | 85  | 737      | 1.00          | 0.9709          |       |
| 81 Hexachlorobenzene         | 284 | 8.410     | 8.416         | -0.006        | 92  | 2248     | 1.00          | 1.06            |       |
| * 85 Phenanthrene-d10        | 188 | 8.780     | 8.786         | -0.006        | 99  | 301851   | 40.0          | 40.0            |       |
| \$ 94 Terphenyl-d14          | 244 | 10.351    | 10.351        | 0.000         | 98  | 4910     | 1.00          | 0.7996          |       |
| 99 Benzo[a]anthracene        | 228 | 11.515    | 11.522        | -0.007        | 99  | 7152     | 1.00          | 0.9887          |       |
| * 100 Chrysene-d12           | 240 | 11.527    | 11.533        | -0.006        | 99  | 233859   | 40.0          | 40.0            |       |
| 104 Benzo[b]fluoranthene     | 252 | 12.904    | 12.916        | -0.012        | 97  | 5045     | 1.00          | 0.9064          |       |
| 105 Benzo[k]fluoranthene     | 252 | 12.945    | 12.951        | -0.006        | 98  | 6079     | 1.00          | 1.04            |       |
| 106 Benzo[a]pyrene           | 252 | 13.351    | 13.357        | -0.006        | 96  | 4853     | 1.00          | 0.9254          |       |
| * 107 Perylene-d12           | 264 | 13.427    | 13.433        | -0.006        | 98  | 188464   | 40.0          | 40.0            |       |
| 108 Indeno[1,2,3-cd]pyrene   | 276 | 14.862    | 14.874        | -0.012        | 95  | 5306     | 1.00          | 1.06            |       |
| 109 Dibenz(a,h)anthracene    | 278 | 14.892    | 14.898        | -0.006        | 94  | 4335     | 1.00          | 0.9104          |       |



**Reagents:**

SV\_IC\_BNA\_L2\_00010

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS12\\20160306-38074.b\\L131121.D

Injection Date: 06-Mar-2016 13:27:30

Instrument ID: CBNAMS12

Operator ID:

Lims ID: std1

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

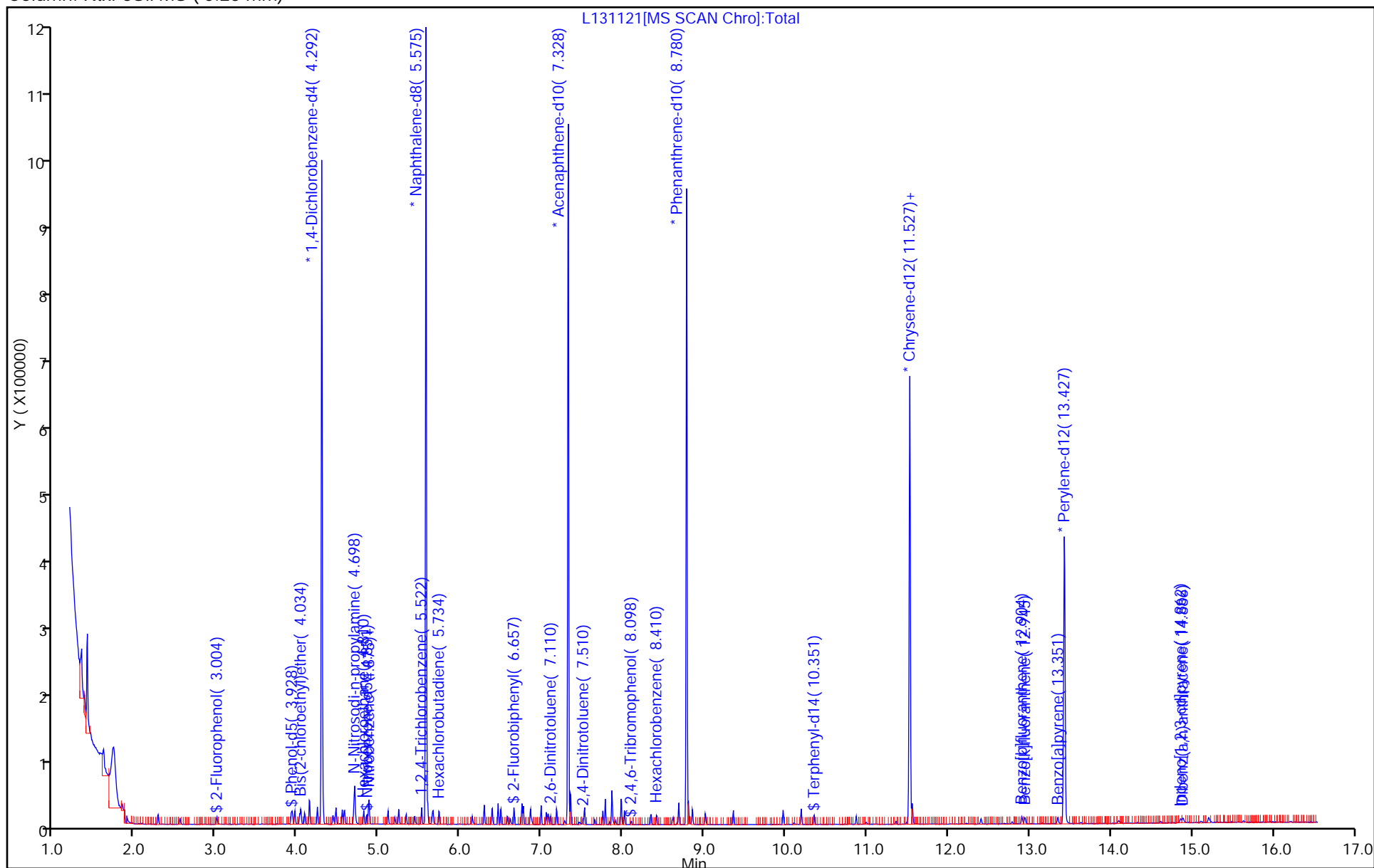
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8270\_12R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131122.D  
 Lims ID: STD05  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 06-Mar-2016 13:52:30 ALS Bottle#: 10 Worklist Smp#: 10  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038074-010  
 Operator ID: Instrument ID: CBNAMS12  
 Sublist: chrom-8270\_12R\_9\*sub18  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 06-Mar-2016 22:33:22 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK012

First Level Reviewer: bayoumiw

Date: 06-Mar-2016 15:11:15

| 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  | 4.022     | 4.022         | 0.000         | 89  | 2149     | 0.5000        | 0.5008          |       |
| * 13 1,4-Dichlorobenzene-d4  | 152 | 4.293     | 4.293         | 0.000         | 97  | 126239   | 40.0          | 40.0            |       |
| 21 N-Nitrosodi-n-propylamine | 70  | 4.698     | 4.704         | -0.006        | 96  | 1347     | 0.5000        | 0.4909          |       |
| 25 Hexachloroethane          | 117 | 4.810     | 4.810         | 0.000         | 89  | 1154     | 0.5000        | 0.5375          |       |
| \$ 26 Nitrobenzene-d5        | 82  | 4.851     | 4.851         | 0.000         | 95  | 2206     | 0.5000        | 0.4607          |       |
| 27 Nitrobenzene              | 77  | 4.869     | 4.875         | -0.006        | 86  | 2938     | 0.5000        | 0.4800          |       |
| 28 n,n'-Dimethylaniline      | 120 | 4.875     | 4.881         | -0.006        | 52  | 2941     | 0.5000        | 0.4996          |       |
| 35 1,2,4-Trichlorobenzene    | 180 | 5.522     | 5.522         | 0.000         | 90  | 1788     | 0.5000        | 0.4671          |       |
| * 36 Naphthalene-d8          | 136 | 5.575     | 5.581         | -0.006        | 100 | 450382   | 40.0          | 40.0            |       |
| \$ 50 2-Fluorobiphenyl       | 172 | 6.657     | 6.663         | -0.006        | 97  | 3808     | 0.5000        | 0.4869          |       |
| * 63 Acenaphthene-d10        | 164 | 7.328     | 7.328         | 0.000         | 93  | 217844   | 40.0          | 40.0            |       |
| 81 Hexachlorobenzene         | 284 | 8.416     | 8.416         | 0.000         | 88  | 1171     | 0.5000        | 0.5216          |       |
| * 85 Phenanthrene-d10        | 188 | 8.781     | 8.786         | -0.005        | 99  | 318909   | 40.0          | 40.0            |       |
| \$ 94 Terphenyl-d14          | 244 | 10.351    | 10.351        | 0.000         | 97  | 2672     | 0.5000        | 0.4350          |       |
| 99 Benzo[a]anthracene        | 228 | 11.557    | 11.522        | 0.035         | 96  | 3598     | 0.5000        | 0.4972          |       |
| * 100 Chrysene-d12           | 240 | 11.527    | 11.533        | -0.006        | 99  | 233932   | 40.0          | 40.0            |       |
| 104 Benzo[b]fluoranthene     | 252 | 12.910    | 12.916        | -0.006        | 96  | 2800     | 0.5000        | 0.4840          |       |
| 105 Benzo[k]fluoranthene     | 252 | 12.945    | 12.951        | -0.006        | 96  | 3020     | 0.5000        | 0.4977          |       |
| 106 Benzo[a]pyrene           | 252 | 13.351    | 13.357        | -0.006        | 97  | 2492     | 0.5000        | 0.4572          |       |
| * 107 Perylene-d12           | 264 | 13.427    | 13.433        | -0.006        | 98  | 195866   | 40.0          | 40.0            |       |
| 108 Indeno[1,2,3-cd]pyrene   | 276 | 14.863    | 14.874        | -0.011        | 95  | 2215     | 0.5000        | 0.4253          |       |
| 109 Dibenz(a,h)anthracene    | 278 | 14.892    | 14.898        | -0.006        | 26  | 2044     | 0.5000        | 0.4131          |       |

## Reagents:

SV\_IC\_BNA\_L1\_00011

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS12\\20160306-38074.b\\L131122.D

Injection Date: 06-Mar-2016 13:52:30

Instrument ID: CBNAMS12

Operator ID:

Lims ID: STD05

Worklist Smp#: 10

Client ID:

Injection Vol: 1.0 ul

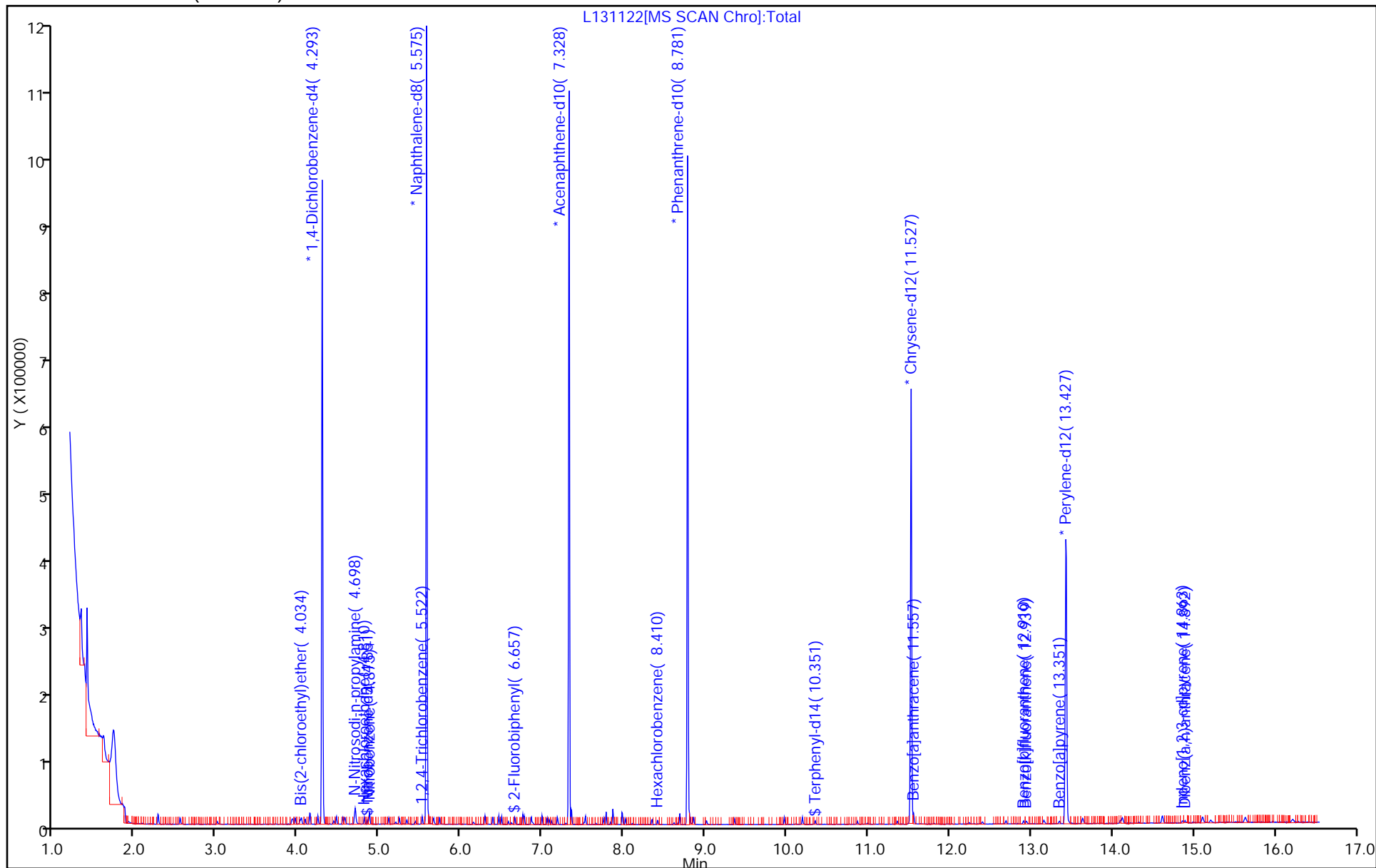
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 8270\_12R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



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

Lab Name: TestAmerica Edison Job No.: 460-109716-1 Analy Batch No.: 354301

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/06/2016 14:16 Calibration End Date: 03/06/2016 16:43 Calibration ID: 54756

Calibration Files:

|         |                      |              |
|---------|----------------------|--------------|
| LEVEL:  | LAB SAMPLE ID:       | LAB FILE ID: |
| Level 1 | STD2 460-354301/17   | L131129.D    |
| Level 2 | STD5 460-354301/16   | L131128.D    |
| Level 3 | STD010 460-354301/15 | L131127.D    |
| Level 4 | STD020 460-354301/14 | L131126.D    |
| Level 5 | STD50 460-354301/11  | L131123.D    |
| Level 6 | STD080 460-354301/13 | L131125.D    |
| Level 7 | STD120 460-354301/12 | L131124.D    |

| ANALYTE      | RRF              |                  |        |        |        | CURVE<br>TYPE | COEFFICIENT |        |    | # | MIN RRF | %RSD | # | MAX<br>%RSD | R^2<br>OR COD | # | MIN R^2<br>OR COD |
|--------------|------------------|------------------|--------|--------|--------|---------------|-------------|--------|----|---|---------|------|---|-------------|---------------|---|-------------------|
|              | LVL 1<br>LVL 6   | LVL 2<br>LVL 7   | LVL 3  | LVL 4  | LVL 5  |               | B           | M1     | M2 |   |         |      |   |             |               |   |                   |
| Benzaldehyde | 1.1136           | 1.1919<br>1.1783 | 1.1949 | 1.2859 | 1.2485 | Ave           |             | 1.2022 |    |   | 0.0100  | 5.0  |   | 20.0        |               |   |                   |
| Caprolactam  | 0.0786           | 0.0607<br>0.0801 | 0.0650 | 0.0779 | 0.0852 | Ave           |             | 0.0746 |    |   | 0.0100  | 12.8 |   | 20.0        |               |   |                   |
| Atrazine     | 0.1767<br>0.1968 | 0.1780<br>0.1975 | 0.1835 | 0.2109 | 0.2193 | Ave           |             | 0.1947 |    |   | 0.0100  | 8.4  |   | 20.0        |               |   |                   |

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

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

Lab Name: TestAmerica Edison Job No.: 460-109716-1 Analy Batch No.: 354301

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS12 GC Column: Rtxi-5Sil M ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/06/2016 14:16 Calibration End Date: 03/06/2016 16:43 Calibration ID: 54756

Calibration Files:

|         |                      |              |
|---------|----------------------|--------------|
| LEVEL:  | LAB SAMPLE ID:       | LAB FILE ID: |
| Level 1 | STD2 460-354301/17   | L131129.D    |
| Level 2 | STD5 460-354301/16   | L131128.D    |
| Level 3 | STD010 460-354301/15 | L131127.D    |
| Level 4 | STD020 460-354301/14 | L131126.D    |
| Level 5 | STD50 460-354301/11  | L131123.D    |
| Level 6 | STD080 460-354301/13 | L131125.D    |
| Level 7 | STD120 460-354301/12 | L131124.D    |

| ANALYTE      | IS<br>REF | CURVE<br>TYPE | RESPONSE       |                 |       |       |        | CONCENTRATION (UG/ML) |                |       |       |       |
|--------------|-----------|---------------|----------------|-----------------|-------|-------|--------|-----------------------|----------------|-------|-------|-------|
|              |           |               | LVL 1<br>LVL 6 | LVL 2<br>LVL 7  | LVL 3 | LVL 4 | LVL 5  | LVL 6                 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Benzaldehyde | DCB       | Ave           | 299006         | 16203<br>481795 | 41753 | 90997 | 182660 | 80.0                  | 5.00<br>120    | 10.0  | 20.0  | 50.0  |
| Caprolactam  | NPT       | Ave           | 71115          | 2935<br>115129  | 7898  | 19272 | 43346  | 80.0                  | 5.00<br>120    | 10.0  | 20.0  | 50.0  |
| Atrazine     | PHN       | Ave           | 3360<br>125418 | 6352<br>196213  | 15527 | 35445 | 81130  | 2.00<br>80.0          | 5.00<br>120    | 10.0  | 20.0  | 50.0  |

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131123.D  
 Lims ID: STD50  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 06-Mar-2016 14:16:30 ALS Bottle#: 11 Worklist Smp#: 11  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038074-011  
 Operator ID: Instrument ID: CBNAMS12  
 Sublist: chrom-8270\_12R\_9\*sub15  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 06-Mar-2016 22:33:26 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK012

First Level Reviewer: bayoumiw

Date: 06-Mar-2016 15:11:44

| Compound                    | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 5 Benzaldehyde              | 77  | 3.851        | 3.851            | 0.000            | 91  | 182660   | 50.0             | 51.9               |       |
| * 13 1,4-Dichlorobenzene-d4 | 152 | 4.292        | 4.292            | 0.000            | 97  | 117040   | 40.0             | 40.0               |       |
| * 36 Naphthalene-d8         | 136 | 5.575        | 5.575            | 0.000            | 100 | 407037   | 40.0             | 40.0               |       |
| 40 Caprolactam              | 113 | 5.975        | 5.975            | 0.000            | 86  | 43346    | 50.0             | 57.1               |       |
| * 63 Acenaphthene-d10       | 164 | 7.328        | 7.328            | 0.000            | 93  | 201667   | 40.0             | 40.0               |       |
| 82 Atrazine                 | 200 | 8.504        | 8.504            | 0.000            | 82  | 81130    | 50.0             | 56.3               |       |
| * 85 Phenanthrene-d10       | 188 | 8.780        | 8.780            | 0.000            | 99  | 295978   | 40.0             | 40.0               |       |
| * 100 Chrysene-d12          | 240 | 11.527       | 11.527           | 0.000            | 99  | 220855   | 40.0             | 40.0               |       |
| * 107 Perylene-d12          | 264 | 13.427       | 13.427           | 0.000            | 98  | 176031   | 40.0             | 40.0               |       |

**Reagents:**

SV\_IC-S\_L6\_00017

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS12\\20160306-38074.b\\L131123.D

Injection Date: 06-Mar-2016 14:16:30

Instrument ID: CBNAMS12

Operator ID:

Lims ID: STD50

Worklist Smp#: 11

Client ID:

Injection Vol: 1.0 ul

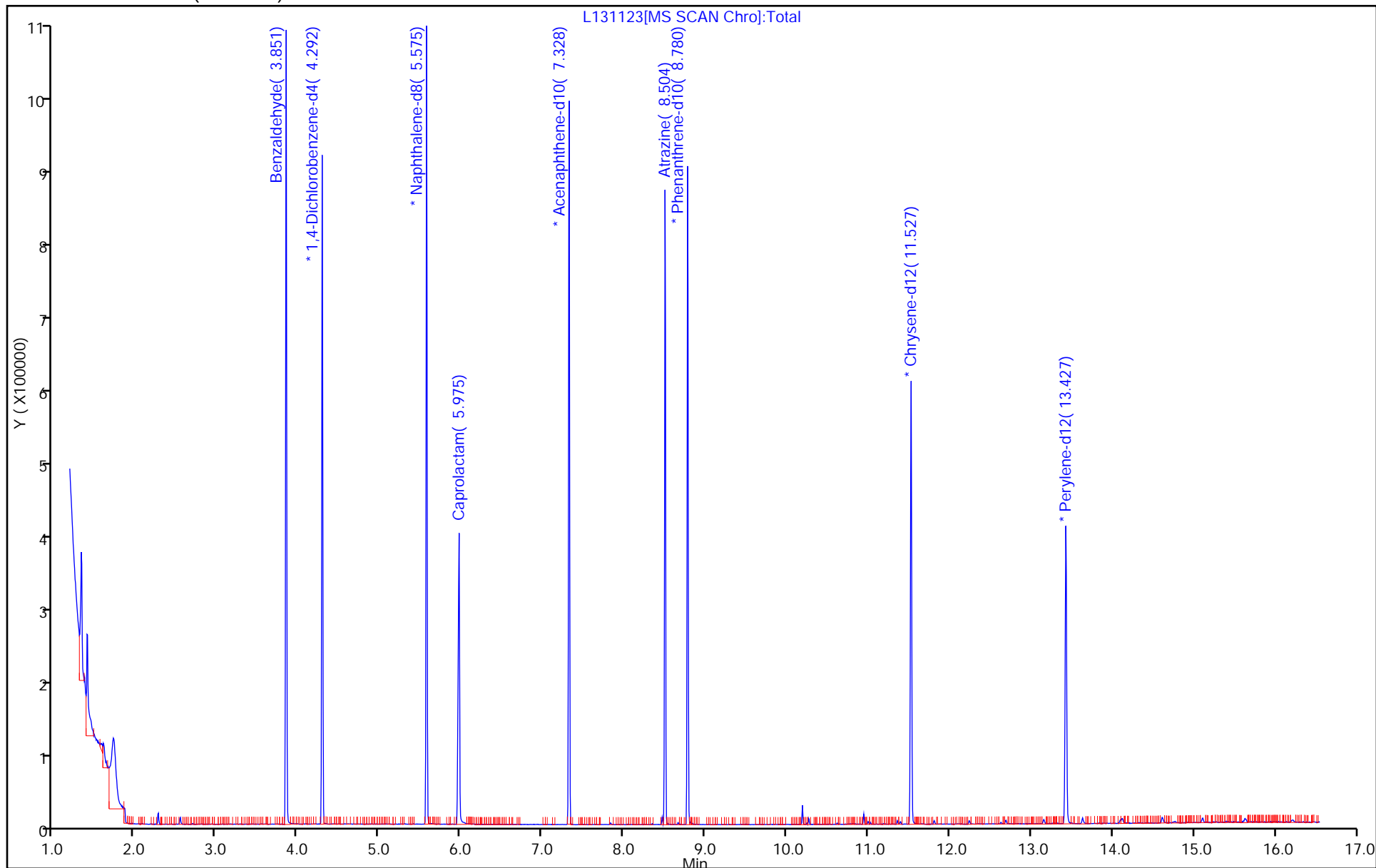
Dil. Factor: 1.0000

ALS Bottle#: 11

Method: 8270\_12R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS ( 0.25 mm)





TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131124.D  
 Lims ID: STD120  
 Client ID:  
 Sample Type: IC Calib Level: 9  
 Inject. Date: 06-Mar-2016 14:41:30 ALS Bottle#: 12 Worklist Smp#: 12  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038074-012  
 Operator ID: Instrument ID: CBNAMS12  
 Sublist: chrom-8270\_12R\_9\*sub15  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 06-Mar-2016 22:33:35 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK012

First Level Reviewer: bayoumiw

Date: 06-Mar-2016 22:11:30

| Compound                    | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 5 Benzaldehyde              | 77  | 3.857        | 3.851            | 0.006            | 91  | 481795   | 120.0            | 117.6              |       |
| * 13 1,4-Dichlorobenzene-d4 | 152 | 4.293        | 4.292            | 0.001            | 97  | 136302   | 40.0             | 40.0               |       |
| * 36 Naphthalene-d8         | 136 | 5.575        | 5.575            | 0.000            | 100 | 479231   | 40.0             | 40.0               |       |
| 40 Caprolactam              | 113 | 5.998        | 5.975            | 0.023            | 86  | 115129   | 120.0            | 128.8              |       |
| * 63 Acenaphthene-d10       | 164 | 7.328        | 7.328            | 0.000            | 97  | 210195   | 40.0             | 40.0               |       |
| 82 Atrazine                 | 200 | 8.516        | 8.504            | 0.012            | 87  | 196213   | 120.0            | 121.7              |       |
| * 85 Phenanthrene-d10       | 188 | 8.781        | 8.780            | 0.001            | 99  | 331151   | 40.0             | 40.0               |       |
| * 100 Chrysene-d12          | 240 | 11.527       | 11.527           | 0.000            | 99  | 250735   | 40.0             | 40.0               |       |
| * 107 Perylene-d12          | 264 | 13.427       | 13.427           | 0.000            | 98  | 204567   | 40.0             | 40.0               |       |

**Reagents:**

SV\_IC-S\_L8\_00004

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS12\\20160306-38074.b\\L131124.D

Injection Date: 06-Mar-2016 14:41:30

Instrument ID: CBNAMS12

Operator ID:

Lims ID: STD120

Worklist Smp#: 12

Client ID:

Injection Vol: 1.0 ul

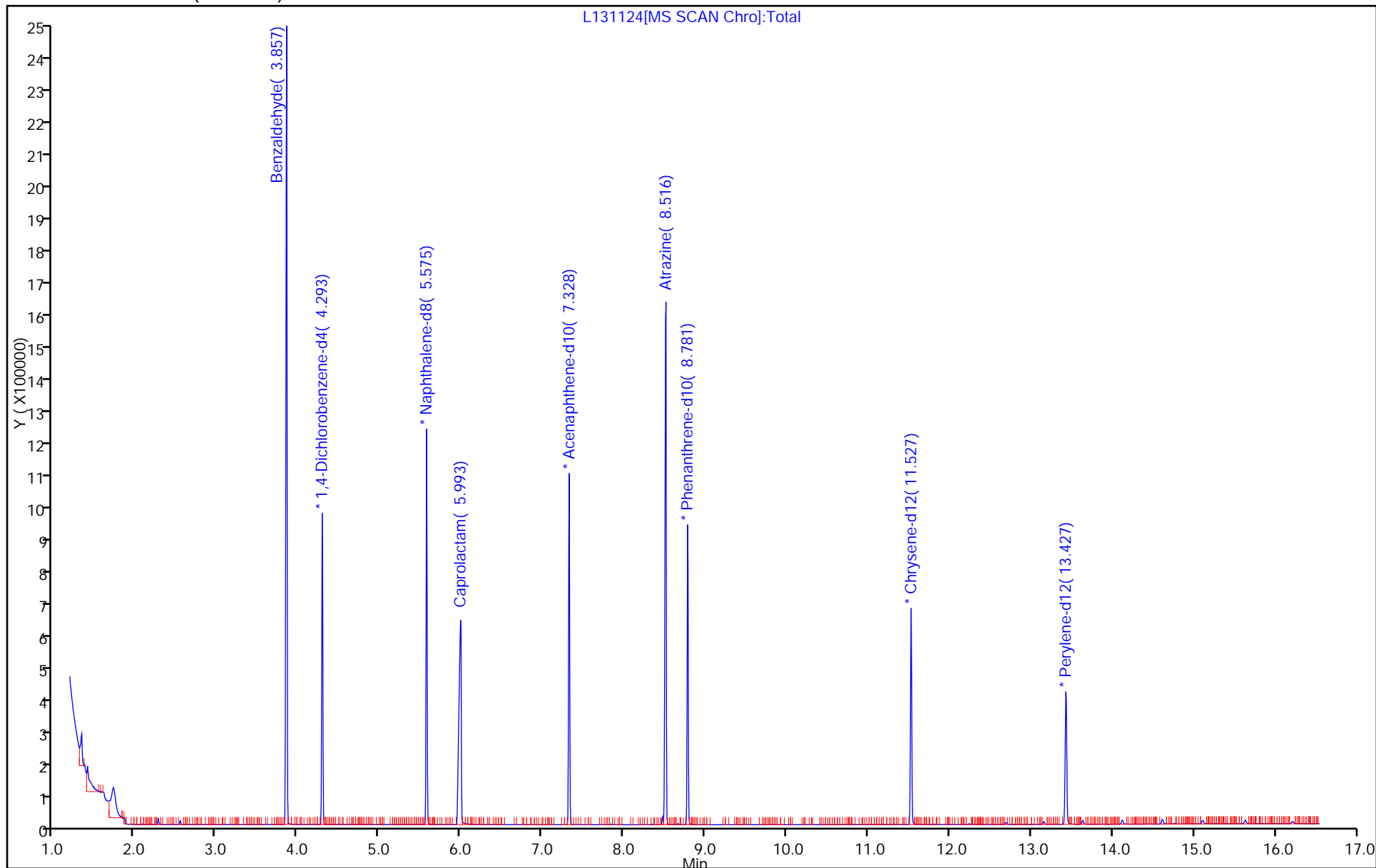
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: 8270\_12R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131125.D  
 Lims ID: STD080  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 06-Mar-2016 15:05:30 ALS Bottle#: 13 Worklist Smp#: 13  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038074-013  
 Operator ID: Instrument ID: CBNAMS12  
 Sublist: chrom-8270\_12R\_9\*sub15  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 06-Mar-2016 22:33:41 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK012

First Level Reviewer: bayoumiw

Date: 06-Mar-2016 22:11:44

| Compound                    | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-----------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| 5 Benzaldehyde              | 77  | 3.851        | 3.851            | 0.000            | 92 | 299006   | 80.0             | 74.1               |       |
| * 13 1,4-Dichlorobenzene-d4 | 152 | 4.293        | 4.292            | 0.001            | 97 | 134252   | 40.0             | 40.0               |       |
| * 36 Naphthalene-d8         | 136 | 5.575        | 5.575            | 0.000            | 99 | 452490   | 40.0             | 40.0               |       |
| 40 Caprolactam              | 113 | 5.987        | 5.975            | 0.012            | 86 | 71115    | 80.0             | 84.3               |       |
| * 63 Acenaphthene-d10       | 164 | 7.328        | 7.328            | 0.000            | 97 | 199011   | 40.0             | 40.0               |       |
| 82 Atrazine                 | 200 | 8.510        | 8.504            | 0.006            | 86 | 125418   | 80.0             | 80.9               |       |
| * 85 Phenanthrene-d10       | 188 | 8.781        | 8.780            | 0.001            | 99 | 318668   | 40.0             | 40.0               |       |
| * 100 Chrysene-d12          | 240 | 11.527       | 11.527           | 0.000            | 99 | 231173   | 40.0             | 40.0               |       |
| * 107 Perylene-d12          | 264 | 13.427       | 13.427           | 0.000            | 98 | 194389   | 40.0             | 40.0               |       |

**Reagents:**

SV\_IC-S\_L7\_00004

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS12\\20160306-38074.b\\L131125.D

Injection Date: 06-Mar-2016 15:05:30

Instrument ID: CBNAMS12

Operator ID:

Lims ID: STD080

Worklist Smp#: 13

Client ID:

Injection Vol: 1.0 ul

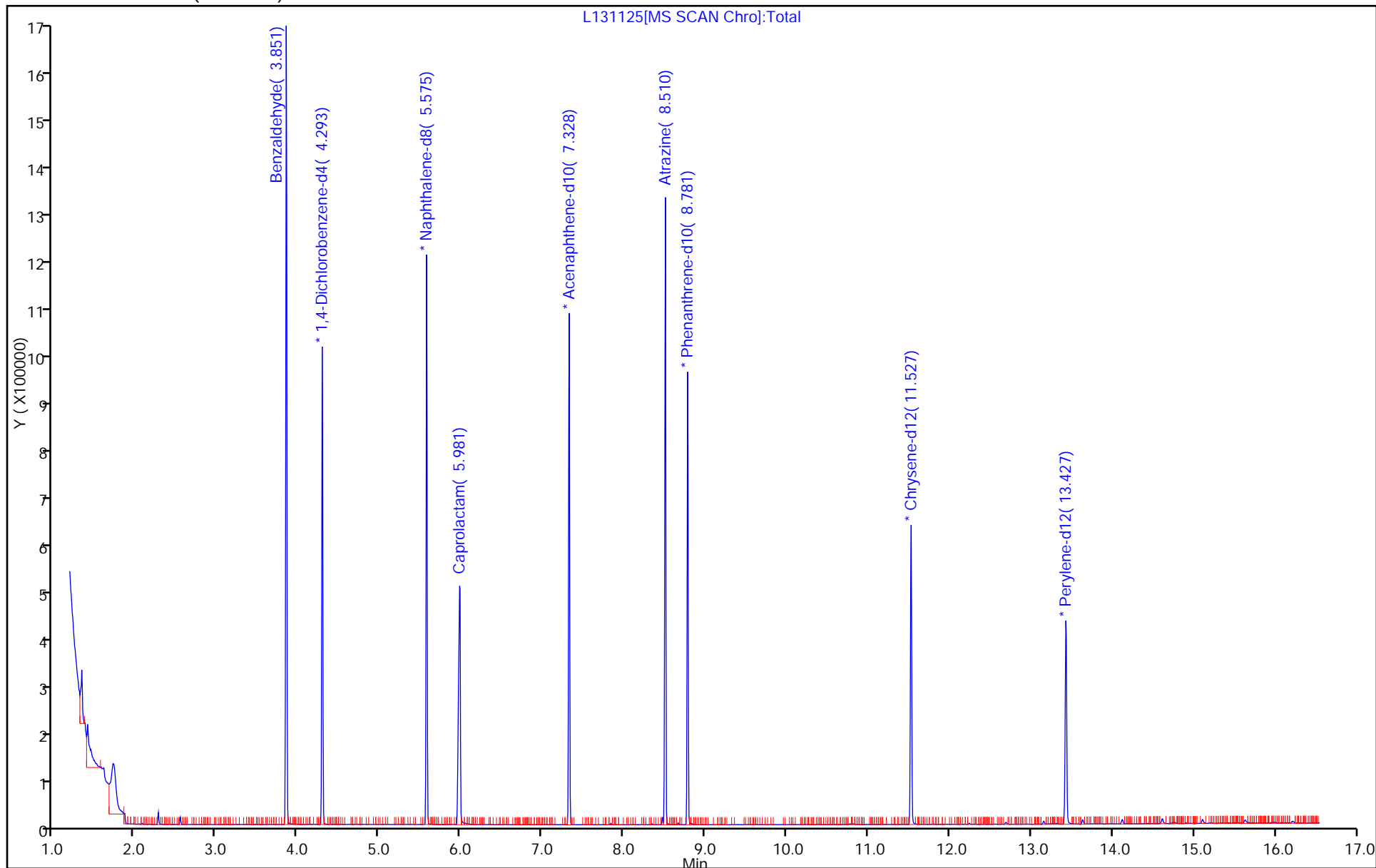
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: 8270\_12R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131126.D  
 Lims ID: STD020  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 06-Mar-2016 15:30:30 ALS Bottle#: 14 Worklist Smp#: 14  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038074-014  
 Operator ID: Instrument ID: CBNAMS12  
 Sublist: chrom-8270\_12R\_9\*sub15  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 06-Mar-2016 22:33:49 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK012

First Level Reviewer: bayoumiw

Date: 06-Mar-2016 22:11:53

| Compound                    | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 5 Benzaldehyde              | 77  | 3.851        | 3.851            | 0.000            | 92  | 90997    | 20.0             | 21.4               |       |
| * 13 1,4-Dichlorobenzene-d4 | 152 | 4.293        | 4.292            | 0.001            | 97  | 141526   | 40.0             | 40.0               |       |
| * 36 Naphthalene-d8         | 136 | 5.575        | 5.575            | 0.000            | 100 | 494584   | 40.0             | 40.0               |       |
| 40 Caprolactam              | 113 | 5.969        | 5.975            | -0.006           | 87  | 19272    | 20.0             | 20.9               |       |
| * 63 Acenaphthene-d10       | 164 | 7.328        | 7.328            | 0.000            | 98  | 215670   | 40.0             | 40.0               |       |
| 82 Atrazine                 | 200 | 8.504        | 8.504            | 0.000            | 88  | 35445    | 20.0             | 21.7               |       |
| * 85 Phenanthrene-d10       | 188 | 8.781        | 8.780            | 0.000            | 99  | 336172   | 40.0             | 40.0               |       |
| * 100 Chrysene-d12          | 240 | 11.527       | 11.527           | 0.000            | 99  | 229869   | 40.0             | 40.0               |       |
| * 107 Perylene-d12          | 264 | 13.427       | 13.427           | 0.000            | 98  | 182023   | 40.0             | 40.0               |       |

**Reagents:**

SV\_IC-S\_L5\_00007

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS12\\20160306-38074.b\\L131126.D

Injection Date: 06-Mar-2016 15:30:30

Instrument ID: CBNAMS12

Operator ID:

Lims ID: STD020

Worklist Smp#: 14

Client ID:

Injection Vol: 1.0 ul

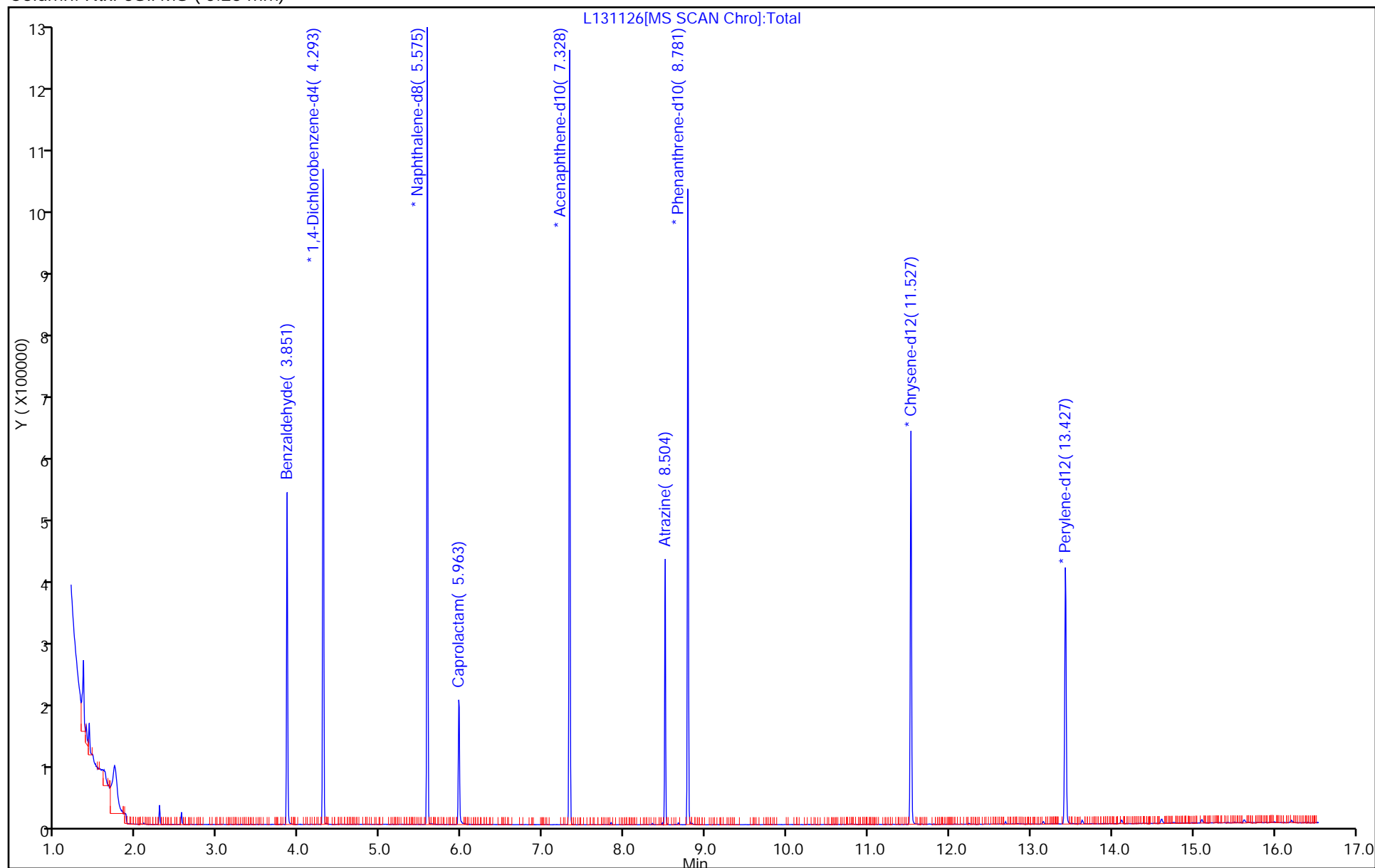
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: 8270\_12R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131127.D  
 Lims ID: STD010  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 06-Mar-2016 15:54:30 ALS Bottle#: 15 Worklist Smp#: 15  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038074-015  
 Operator ID: Instrument ID: CBNAMS12  
 Sublist: chrom-8270\_12R\_9\*sub15  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 06-Mar-2016 22:33:55 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK012

First Level Reviewer: bayoumiw

Date: 06-Mar-2016 22:12:05

| Compound                    | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 5 Benzaldehyde              | 77  | 3.851        | 3.851            | 0.000            | 92  | 41753    | 10.0             | 9.94               |       |
| * 13 1,4-Dichlorobenzene-d4 | 152 | 4.292        | 4.292            | 0.000            | 97  | 139767   | 40.0             | 40.0               |       |
| * 36 Naphthalene-d8         | 136 | 5.575        | 5.575            | 0.000            | 100 | 485970   | 40.0             | 40.0               |       |
| 40 Caprolactam              | 113 | 5.963        | 5.975            | -0.012           | 87  | 7898     | 10.0             | 8.72               |       |
| * 63 Acenaphthene-d10       | 164 | 7.328        | 7.328            | 0.000            | 97  | 214647   | 40.0             | 40.0               |       |
| 82 Atrazine                 | 200 | 8.498        | 8.504            | -0.006           | 88  | 15527    | 10.0             | 9.43               |       |
| * 85 Phenanthrene-d10       | 188 | 8.780        | 8.780            | 0.000            | 99  | 338378   | 40.0             | 40.0               |       |
| * 100 Chrysene-d12          | 240 | 11.527       | 11.527           | 0.000            | 99  | 215416   | 40.0             | 40.0               |       |
| * 107 Perylene-d12          | 264 | 13.427       | 13.427           | 0.000            | 98  | 178956   | 40.0             | 40.0               |       |

**Reagents:**

SV\_IC-S\_L4\_00019

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS12\\20160306-38074.b\\L131127.D

Injection Date: 06-Mar-2016 15:54:30

Instrument ID: CBNAMS12

Operator ID:

Lims ID: STD010

Worklist Smp#: 15

Client ID:

Injection Vol: 1.0 ul

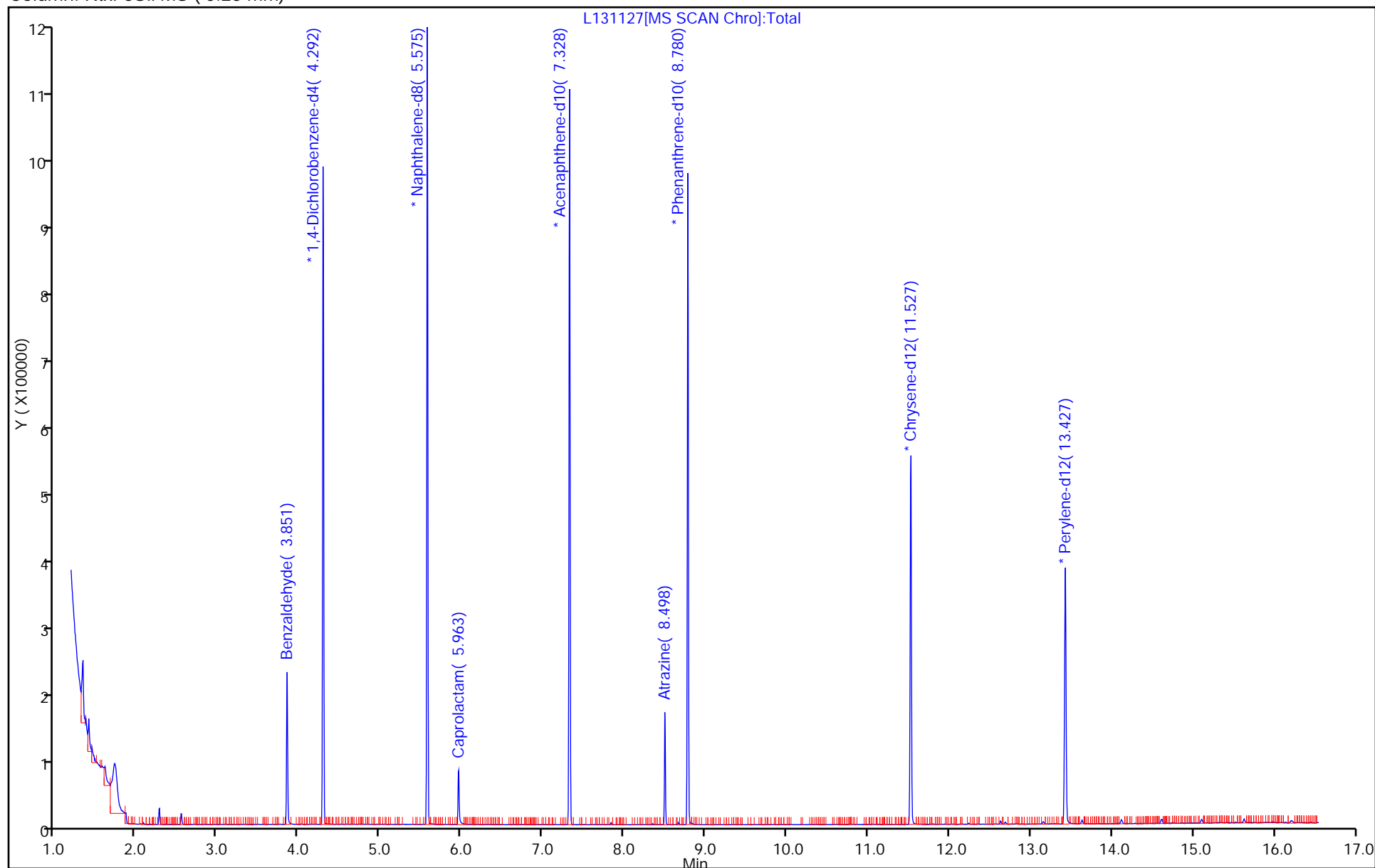
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: 8270\_12R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS ( 0.25 mm)





TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131128.D  
 Lims ID: STD5  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 06-Mar-2016 16:18:30 ALS Bottle#: 16 Worklist Smp#: 16  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038074-016  
 Operator ID: Instrument ID: CBNAMS12  
 Sublist: chrom-8270\_12R\_9\*sub15  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 06-Mar-2016 22:34:01 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK012

First Level Reviewer: bayoumiw

Date: 06-Mar-2016 22:12:19

| Compound                    | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 5 Benzaldehyde              | 77  | 3.857        | 3.851            | 0.006            | 93  | 16203    | 5.00             | 4.96               |       |
| * 13 1,4-Dichlorobenzene-d4 | 152 | 4.299        | 4.292            | 0.006            | 98  | 108753   | 40.0             | 40.0               |       |
| * 36 Naphthalene-d8         | 136 | 5.575        | 5.575            | 0.000            | 100 | 386591   | 40.0             | 40.0               |       |
| 40 Caprolactam              | 113 | 5.957        | 5.975            | -0.018           | 87  | 2935     | 5.00             | 4.07               |       |
| * 63 Acenaphthene-d10       | 164 | 7.322        | 7.328            | -0.006           | 96  | 175160   | 40.0             | 40.0               |       |
| 82 Atrazine                 | 200 | 8.498        | 8.504            | -0.006           | 87  | 6352     | 5.00             | 4.57               |       |
| * 85 Phenanthrene-d10       | 188 | 8.781        | 8.780            | 0.001            | 99  | 285549   | 40.0             | 40.0               |       |
| * 100 Chrysene-d12          | 240 | 11.516       | 11.527           | -0.011           | 99  | 219294   | 40.0             | 40.0               |       |
| * 107 Perylene-d12          | 264 | 13.410       | 13.427           | -0.017           | 98  | 189584   | 40.0             | 40.0               |       |

**Reagents:**

SV\_IC-S\_L3\_00008

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS12\\20160306-38074.b\\L131128.D

Injection Date: 06-Mar-2016 16:18:30

Instrument ID: CBNAMS12

Operator ID:

Lims ID: STD5

Worklist Smp#: 16

Client ID:

Injection Vol: 1.0 ul

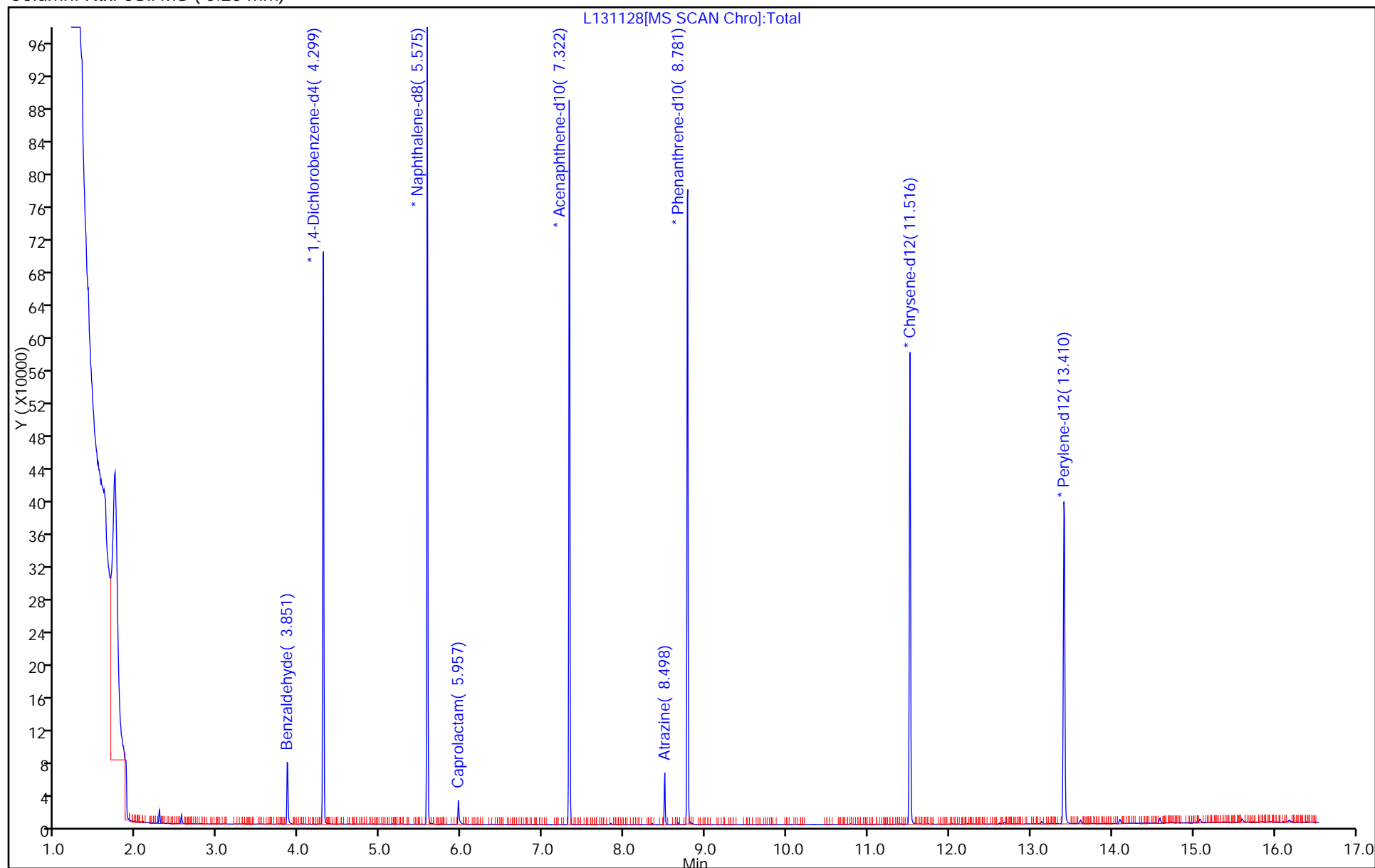
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: 8270\_12R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Lims ID: STD2  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 06-Mar-2016 16:43:30 ALS Bottle#: 17 Worklist Smp#: 17  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038074-017  
 Operator ID: Instrument ID: CBNAMS12  
 Sublist: chrom-8270\_12R\_9\*sub15  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 06-Mar-2016 22:34:07 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK012

First Level Reviewer: bayoumiw

Date: 06-Mar-2016 22:12:32

| Compound                    | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| * 13 1,4-Dichlorobenzene-d4 | 152 | 4.298        | 4.292            | 0.006            | 98  | 151699   | 40.0             | 40.0               |       |
| * 36 Naphthalene-d8         | 136 | 5.575        | 5.575            | 0.000            | 100 | 529415   | 40.0             | 40.0               |       |
| * 63 Acenaphthene-d10       | 164 | 7.322        | 7.328            | -0.006           | 96  | 239478   | 40.0             | 40.0               |       |
| 82 Atrazine                 | 200 | 8.498        | 8.504            | -0.006           | 86  | 3360     | 2.00             | 1.82               |       |
| * 85 Phenanthrene-d10       | 188 | 8.780        | 8.780            | 0.000            | 99  | 380274   | 40.0             | 40.0               |       |
| * 100 Chrysene-d12          | 240 | 11.516       | 11.527           | -0.011           | 99  | 239033   | 40.0             | 40.0               |       |
| * 107 Perylene-d12          | 264 | 13.409       | 13.427           | -0.018           | 98  | 187615   | 40.0             | 40.0               |       |

**Reagents:**

SV\_IC-S\_L2\_00007

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D

Injection Date: 06-Mar-2016 16:43:30

Instrument ID: CBNAMS12

Operator ID:

Lims ID: STD2

Worklist Smp#: 17

Client ID:

Injection Vol: 1.0 ul

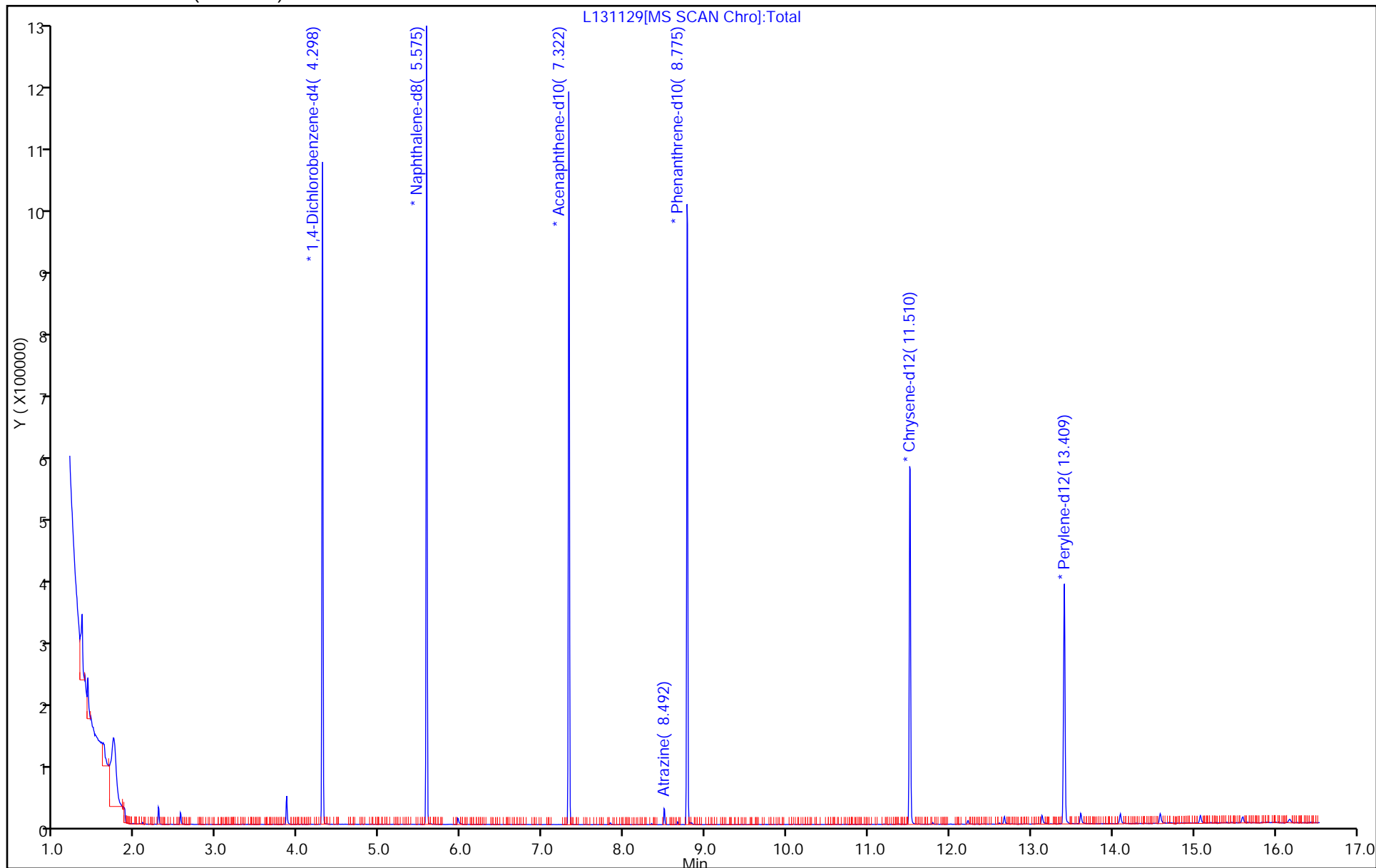
Dil. Factor: 1.0000

ALS Bottle#: 17

Method: 8270\_12R\_9

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.: 460-109716-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 460-354905/18 Calibration Date: 03/09/2016 15:06

Instrument ID: CBNAMS11 Calib Start Date: 03/09/2016 08:34

GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 03/09/2016 11:52

Lab File ID: z41476.D Conc. Units: ug/L

| ANALYTE                      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D    | MAX<br>%D |
|------------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| 1,4-Dioxane                  | Ave           | 0.6278  | 0.6420 | 0.0100  | 25600          | 25000           | 2.3   | 30.0      |
| N-Nitrosodimethylamine       | Ave           | 0.8667  | 0.7644 |         | 22000          | 25000           | -11.8 | 30.0      |
| Pyridine                     | Ave           | 1.510   | 1.518  |         | 25100          | 25000           | 0.5   | 30.0      |
| Phenol                       | Ave           | 1.815   | 1.792  | 0.8000  | 24700          | 25000           | -1.3  | 30.0      |
| Aniline                      | Ave           | 1.996   | 2.004  |         | 25100          | 25000           | 0.4   | 30.0      |
| Bis(2-chloroethyl)ether      | Ave           | 1.387   | 1.368  | 0.7000  | 24700          | 25000           | -1.4  | 30.0      |
| 2-Chlorophenol               | Ave           | 1.354   | 1.377  | 0.8000  | 25400          | 25000           | 1.7   | 30.0      |
| n-Decane                     | Ave           | 1.721   | 1.762  | 0.0100  | 25600          | 25000           | 2.4   | 30.0      |
| 1,3-Dichlorobenzene          | Ave           | 1.559   | 1.604  |         | 25700          | 25000           | 2.9   | 30.0      |
| 1,4-Dichlorobenzene          | Ave           | 1.584   | 1.627  |         | 25700          | 25000           | 2.7   | 30.0      |
| Benzyl alcohol               | Qua           |         | 0.6061 | 0.0100  | 23300          | 25000           | -6.7  | 30.0      |
| 1,2-Dichlorobenzene          | Ave           | 1.461   | 1.489  |         | 25500          | 25000           | 1.9   | 30.0      |
| 2-Methylphenol               | Ave           | 1.200   | 1.267  | 0.7000  | 26400          | 25000           | 5.6   | 30.0      |
| 2,2'-oxybis[1-chloropropane] | Ave           | 1.909   | 1.928  | 0.0100  | 25200          | 25000           | 1.0   | 30.0      |
| Acetophenone                 | Ave           | 1.704   | 1.766  | 0.0100  | 25900          | 25000           | 3.6   | 30.0      |
| N-Nitrosodi-n-propylamine    | Ave           | 0.8928  | 0.9347 | 0.5000  | 26200          | 25000           | 4.7   | 30.0      |
| 3 & 4 Methylphenol           | Ave           | 1.214   | 1.296  |         | 26700          | 25000           | 6.8   | 30.0      |
| 4-Methylphenol               | Ave           | 1.214   | 1.296  | 0.6000  | 26700          | 25000           | 6.8   | 30.0      |
| Hexachloroethane             | Ave           | 0.5920  | 0.6061 | 0.3000  | 25600          | 25000           | 2.4   | 30.0      |
| n,n'-Dimethylaniline         | Ave           | 1.744   | 1.786  | 0.0100  | 25600          | 25000           | 2.4   | 30.0      |
| Nitrobenzene                 | Ave           | 0.5577  | 0.5694 | 0.2000  | 25500          | 25000           | 2.1   | 30.0      |
| Isophorone                   | Ave           | 0.6538  | 0.6995 | 0.4000  | 26700          | 25000           | 7.0   | 30.0      |
| 2-Nitrophenol                | Ave           | 0.1972  | 0.2002 | 0.1000  | 25400          | 25000           | 1.5   | 30.0      |
| 2,4-Dimethylphenol           | Ave           | 0.3085  | 0.2901 | 0.2000  | 23500          | 25000           | -6.0  | 30.0      |
| Bis(2-chloroethoxy)methane   | Ave           | 0.4080  | 0.4153 | 0.3000  | 25400          | 25000           | 1.8   | 30.0      |
| Benzoic acid                 | Qua           |         | 0.1192 |         | 24400          | 25000           | -2.4  | 30.0      |
| 2,4-Dichlorophenol           | Ave           | 0.2884  | 0.3044 | 0.2000  | 26400          | 25000           | 5.5   | 30.0      |
| 1,2,4-Trichlorobenzene       | Ave           | 0.3452  | 0.3526 |         | 25500          | 25000           | 2.1   | 30.0      |
| Naphthalene                  | Ave           | 1.053   | 1.089  | 0.7000  | 25800          | 25000           | 3.3   | 30.0      |
| 4-Chloroaniline              | Ave           | 0.3933  | 0.3999 | 0.0100  | 25400          | 25000           | 1.7   | 30.0      |
| Hexachlorobutadiene          | Ave           | 0.2044  | 0.2094 | 0.0100  | 25600          | 25000           | 2.4   | 30.0      |
| 4-Chloro-3-methylphenol      | Ave           | 0.2823  | 0.3068 |         | 27200          | 25000           | 8.7   | 30.0      |
| 2-Methylnaphthalene          | Ave           | 0.6804  | 0.6839 | 0.4000  | 25100          | 25000           | 0.5   | 30.0      |
| 1-Methylnaphthalene          | Ave           | 0.5835  | 0.6342 | 0.0100  | 27200          | 25000           | 8.7   | 30.0      |
| Hexachlorocyclopentadiene    | QuaF          |         | 0.2522 | 0.0500  | 23100          | 25000           | -7.6  | 30.0      |
| 1,2,4,5-Tetrachlorobenzene   | Ave           | 0.6507  | 0.6434 | 0.0100  | 24700          | 25000           | -1.1  | 30.0      |
| 2-tertbutyl-4-methylphenol   | Ave           | 0.4263  | 0.4390 | 0.0100  | 25700          | 25000           | 3.0   | 30.0      |
| 2,4,6-Trichlorophenol        | Ave           | 0.3876  | 0.3896 | 0.2000  | 25100          | 25000           | 0.5   | 30.0      |
| 2,4,5-Trichlorophenol        | Ave           | 0.4033  | 0.4295 | 0.2000  | 26600          | 25000           | 6.5   | 30.0      |
| 1,1'-Biphenyl                | Ave           | 1.622   | 1.654  | 0.0100  | 25500          | 25000           | 2.0   | 30.0      |
| 2-Chloronaphthalene          | Ave           | 1.215   | 1.236  | 0.8000  | 25400          | 25000           | 1.7   | 30.0      |

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-109716-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 460-354905/18 Calibration Date: 03/09/2016 15:06

Instrument ID: CBNAMS11 Calib Start Date: 03/09/2016 08:34

GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 03/09/2016 11:52

Lab File ID: z41476.D Conc. Units: ug/L

| ANALYTE                        | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D     | MAX %D |
|--------------------------------|------------|---------|--------|---------|-------------|--------------|--------|--------|
| Phenyl ether                   | Ave        | 0.8474  | 0.8817 | 0.0100  | 26000       | 25000        | 4.0    | 30.0   |
| 2-Nitroaniline                 | Ave        | 0.3766  | 0.4052 | 0.0100  | 26900       | 25000        | 7.6    | 30.0   |
| 1,3-Dimethylnaphthalene        | Ave        | 1.003   | 1.074  | 0.0100  | 26800       | 25000        | 7.1    | 30.0   |
| Dimethyl phthalate             | Ave        | 1.209   | 1.264  | 0.0100  | 26100       | 25000        | 4.6    | 30.0   |
| Coumarin                       | Ave        | 0.1757  | 0.1949 | 0.0100  | 27700       | 25000        | 10.9   | 30.0   |
| 2,6-Dinitrotoluene             | Ave        | 0.2795  | 0.3003 | 0.2000  | 26900       | 25000        | 7.4    | 30.0   |
| Acenaphthylene                 | Ave        | 1.774   | 1.773  | 0.9000  | 25000       | 25000        | -0.0   | 30.0   |
| 3-Nitroaniline                 | Ave        | 0.2853  | 0.2988 | 0.0100  | 26200       | 25000        | 4.7    | 30.0   |
| 3,5-di-tert-butyl-4-hydroxytol | Ave        | 1.114   | 1.150  | 0.0100  | 25800       | 25000        | 3.2    | 30.0   |
| Acenaphthene                   | Ave        | 1.131   | 1.165  | 0.9000  | 25700       | 25000        | 3.0    | 30.0   |
| 2,4-Dinitrophenol              | Qua        |         | 0.1655 | 0.0100  | 50800       | 50000        | 1.6    | 30.0   |
| 4-Nitrophenol                  | Ave        | 0.1951  | 0.1966 | 0.0100  | 50400       | 50000        | 0.8    | 30.0   |
| 2,4-Dinitrotoluene             | Ave        | 0.3482  | 0.3685 | 0.2000  | 26500       | 25000        | 5.8    | 30.0   |
| Dibenzofuran                   | Ave        | 1.604   | 1.638  | 0.8000  | 25500       | 25000        | 2.1    | 30.0   |
| 2,3,4,6-Tetrachlorophenol      | Ave        | 0.2930  | 0.2994 | 0.0100  | 25500       | 25000        | 2.2    | 30.0   |
| Diethyl phthalate              | Ave        | 1.126   | 1.191  | 0.0100  | 26400       | 25000        | 5.8    | 30.0   |
| 4-Chlorophenyl phenyl ether    | Ave        | 0.6145  | 0.6382 | 0.4000  | 26000       | 25000        | 3.8    | 30.0   |
| Fluorene                       | Ave        | 1.260   | 1.320  | 0.9000  | 26200       | 25000        | 4.8    | 30.0   |
| 4-Nitroaniline                 | Ave        | 0.2353  | 0.2529 | 0.0100  | 26900       | 25000        | 7.5    | 30.0   |
| 4,6-Dinitro-2-methylphenol     | Lin2       |         | 0.1457 | 0.0100  | 51800       | 50000        | 3.6    | 30.0   |
| N-Nitrosodiphenylamine         | Ave        | 0.6120  | 0.7411 | 0.0100  | 51500       | 42500        | 21.1   | 30.0   |
| 1,2-Diphenylhydrazine          | Ave        | 0.9090  | 0.9724 | 0.0100  | 26700       | 25000        | 7.0    | 30.0   |
| 4-Bromophenyl phenyl ether     | Ave        | 0.2492  | 0.2518 | 0.1000  | 25300       | 25000        | 1.0    | 30.0   |
| Hexachlorobenzene              | Ave        | 0.2505  | 0.2567 | 0.1000  | 25600       | 25000        | 2.5    | 30.0   |
| Pentachlorophenol              | Qua        |         | 0.1204 | 0.0500  | 50000       | 50000        | 0.0    | 30.0   |
| Pentachloronitrobenzene        | Ave        | 0.0971  | 0.1117 | 0.0100  | 28800       | 25000        | 15.0   | 30.0   |
| n-Octadecane                   | Ave        | 0.7338  | 0.7294 | 0.0100  | 24800       | 25000        | -0.6   | 30.0   |
| Phenanthrene                   | Ave        | 1.160   | 1.161  | 0.7000  | 25000       | 25000        | 0.0    | 30.0   |
| Anthracene                     | Ave        | 1.143   | 1.181  | 0.7000  | 25800       | 25000        | 3.4    | 30.0   |
| Carbazole                      | Ave        | 0.8872  | 0.9035 | 0.0100  | 25500       | 25000        | 1.8    | 30.0   |
| Di-n-butyl phthalate           | Ave        | 1.096   | 1.128  | 0.0100  | 25700       | 25000        | 2.9    | 30.0   |
| Fluoranthene                   | Ave        | 0.9574  | 0.9830 | 0.6000  | 25700       | 25000        | 2.7    | 30.0   |
| Benzidine                      | Ave        | 0.3206  | 0.2434 |         | 19000       | 25000        | -24.1  | 30.0   |
| Pyrene                         | Ave        | 1.796   | 1.889  | 0.6000  | 26300       | 25000        | 5.2    | 30.0   |
| Bisphenol-A                    | Ave        | 0.3100  | 0.0353 |         | 2850        | 25000        | -88.6* | 30.0   |
| Butyl benzyl phthalate         | Ave        | 0.6443  | 0.6901 | 0.0100  | 26800       | 25000        | 7.1    | 30.0   |
| Carbamazepine                  | Ave        | 0.4163  | 0.4182 | 0.0100  | 25100       | 25000        | 0.5    | 30.0   |
| 3,3'-Dichlorobenzidine         | Ave        | 0.3762  | 0.3945 | 0.0100  | 26200       | 25000        | 4.9    | 30.0   |
| Benzo[a]anthracene             | Ave        | 1.194   | 1.229  | 0.8000  | 25700       | 25000        | 3.0    | 30.0   |
| Bis(2-ethylhexyl) phthalate    | Ave        | 0.8636  | 0.9052 | 0.0100  | 26200       | 25000        | 4.8    | 30.0   |

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 460-354905/18 Calibration Date: 03/09/2016 15:06  
 Instrument ID: CBNAMS11 Calib Start Date: 03/09/2016 08:34  
 GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 03/09/2016 11:52  
 Lab File ID: z41476.D Conc. Units: ug/L

| ANALYTE                | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D   | MAX<br>%D |
|------------------------|---------------|---------|--------|---------|----------------|-----------------|------|-----------|
| Chrysene               | Ave           | 1.076   | 1.164  | 0.7000  | 27000          | 25000           | 8.2  | 30.0      |
| Di-n-octyl phthalate   | Ave           | 1.691   | 1.924  | 0.0100  | 28400          | 25000           | 13.8 | 30.0      |
| Benzo[b]fluoranthene   | Ave           | 1.286   | 1.332  | 0.7000  | 25900          | 25000           | 3.5  | 30.0      |
| Benzo[k]fluoranthene   | Ave           | 1.287   | 1.435  | 0.7000  | 27900          | 25000           | 11.5 | 30.0      |
| Benzo[a]pyrene         | Ave           | 1.131   | 1.195  | 0.7000  | 26400          | 25000           | 5.6  | 30.0      |
| Indeno[1,2,3-cd]pyrene | Ave           | 0.9284  | 0.9203 | 0.5000  | 24800          | 25000           | -0.9 | 30.0      |
| Dibenz(a,h)anthracene  | Ave           | 0.9052  | 0.9532 | 0.4000  | 26300          | 25000           | 5.3  | 30.0      |
| Benzo[g,h,i]perylene   | Ave           | 0.9948  | 0.9697 | 0.5000  | 24400          | 25000           | -2.5 | 30.0      |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41476.D  
 Lims ID: icv  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 09-Mar-2016 15:06:30 ALS Bottle#: 18 Worklist Smp#: 18  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038213-018  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Sublist:  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 09-Mar-2016 15:40:07 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK028

First Level Reviewer: szczech

Date: 09-Mar-2016 15:56:44

| Compound                      | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-------------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| 1 1,4-Dioxane                 | 88  | 1.846        | 1.852            | -0.006           | 97 | 90907    | 25.0             | 25.6               |       |
| 2 N-Nitrosodimethylamine      | 74  | 2.081        | 2.099            | -0.018           | 87 | 108247   | 25.0             | 22.0               |       |
| 3 Pyridine                    | 79  | 2.116        | 2.128            | -0.012           | 86 | 214966   | 25.0             | 25.1               |       |
| 7 Phenol                      | 94  | 4.199        | 4.210            | -0.011           | 95 | 253699   | 25.0             | 24.7               |       |
| 8 Aniline                     | 93  | 4.210        | 4.216            | -0.006           | 95 | 283847   | 25.0             | 25.1               |       |
| 9 Bis(2-chloroethyl)ether     | 93  | 4.263        | 4.269            | -0.006           | 95 | 193692   | 25.0             | 24.7               |       |
| 10 Benzonitrile               | 103 | 4.287        | 4.304            | -0.017           | 0  | 355994   | NC               | NC                 |       |
| 11 2-Chlorophenol             | 128 | 4.334        | 4.340            | -0.006           | 93 | 195027   | 25.0             | 25.4               |       |
| 12 n-Decane                   | 43  | 4.363        | 4.357            | 0.006            | 89 | 249554   | 25.0             | 25.6               |       |
| 13 1,3-Dichlorobenzene        | 146 | 4.475        | 4.475            | 0.000            | 93 | 227127   | 25.0             | 25.7               |       |
| * 14 1,4-Dichlorobenzene-d4   | 152 | 4.534        | 4.528            | 0.006            | 98 | 226573   | 40.0             | 40.0               |       |
| 15 1,4-Dichlorobenzene        | 146 | 4.551        | 4.546            | 0.005            | 92 | 230423   | 25.0             | 25.7               |       |
| 16 Benzyl alcohol             | 108 | 4.681        | 4.687            | -0.006           | 92 | 85825    | 25.0             | 23.3               |       |
| 17 1,2-Dichlorobenzene        | 146 | 4.704        | 4.704            | 0.000            | 94 | 210794   | 25.0             | 25.5               |       |
| 19 2,2'-oxybis[1-chloropropan | 45  | 4.804        | 4.804            | 0.000            | 95 | 272963   | 25.0             | 25.2               |       |
| 18 2-Methylphenol             | 108 | 4.798        | 4.804            | -0.006           | 86 | 179369   | 25.0             | 26.4               |       |
| 20 N-Methylaniline            | 106 | 4.934        | 4.934            | 0.000            | 0  | 283406   | NC               | NC                 |       |
| 22 Acetophenone               | 105 | 4.940        | 4.946            | -0.006           | 93 | 250080   | 25.0             | 25.9               |       |
| 21 N-Nitrosodi-n-propylamine  | 70  | 4.940        | 4.951            | -0.011           | 86 | 132365   | 25.0             | 26.2               |       |
| 23 3 & 4 Methylphenol         | 108 | 4.957        | 4.969            | -0.012           | 95 | 183532   | 25.0             | 26.7               |       |
| 24 4-Methylphenol             | 108 | 4.957        | 4.969            | -0.012           | 94 | 183532   | 25.0             | 26.7               |       |
| 25 Hexachloroethane           | 117 | 5.046        | 5.040            | 0.006            | 93 | 85833    | 25.0             | 25.6               |       |
| 28 n,n'-Dimethylaniline       | 120 | 5.110        | 5.116            | -0.006           | 93 | 252842   | 25.0             | 25.6               |       |
| 27 Nitrobenzene               | 77  | 5.116        | 5.122            | -0.006           | 91 | 272388   | 25.0             | 25.5               |       |
| 31 Isophorone                 | 82  | 5.351        | 5.363            | -0.012           | 99 | 334641   | 25.0             | 26.7               |       |
| 32 2-Nitrophenol              | 139 | 5.434        | 5.434            | 0.000            | 88 | 95763    | 25.0             | 25.4               |       |
| 33 2,4-Dimethylphenol         | 122 | 5.487        | 5.493            | -0.006           | 89 | 138767   | 25.0             | 23.5               |       |
| 34 Bis(2-chloroethoxy)methane | 93  | 5.569        | 5.569            | 0.000            | 98 | 198691   | 25.0             | 25.4               |       |
| 35 Benzoic acid               | 122 | 5.616        | 5.651            | -0.035           | 87 | 57040    | 25.0             | 24.4               |       |
| 36 2,4-Dichlorophenol         | 162 | 5.687        | 5.687            | 0.000            | 95 | 145615   | 25.0             | 26.4               |       |



| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|---------------|-----------------|-------|
| 37 1,2,4-Trichlorobenzene     | 180 | 5.757     | 5.757         | 0.000         | 94  | 168654   | 25.0          | 25.5            |       |
| * 38 Naphthalene-d8           | 136 | 5.816     | 5.816         | 0.000         | 100 | 765411   | 40.0          | 40.0            |       |
| 39 Naphthalene                | 128 | 5.840     | 5.840         | 0.000         | 99  | 520836   | 25.0          | 25.8            |       |
| 40 4-Chloroaniline            | 127 | 5.898     | 5.904         | -0.006        | 95  | 191312   | 25.0          | 25.4            |       |
| 41 Hexachlorobutadiene        | 225 | 5.963     | 5.963         | 0.000         | 95  | 100179   | 25.0          | 25.6            |       |
| 43 4-Chloro-3-methylphenol    | 107 | 6.398     | 6.398         | 0.000         | 96  | 146782   | 25.0          | 27.2            |       |
| 44 2-Methylnaphthalene        | 142 | 6.528     | 6.528         | 0.000         | 85  | 327147   | 25.0          | 25.1            |       |
| 45 1-Methylnaphthalene        | 142 | 6.628     | 6.628         | 0.000         | 93  | 303386   | 25.0          | 27.2            |       |
| 46 Hexachlorocyclopentadiene  | 237 | 6.692     | 6.693         | 0.000         | 95  | 58937    | 25.0          | 23.1            |       |
| 47 1,2,4,5-Tetrachlorobenzene | 216 | 6.698     | 6.698         | 0.000         | 96  | 150336   | 25.0          | 24.7            |       |
| 48 2-tertbutyl-4-methylphenol | 149 | 6.740     | 6.740         | 0.000         | 90  | 210001   | 25.0          | 25.7            |       |
| 49 2,4,6-Trichlorophenol      | 196 | 6.822     | 6.822         | 0.000         | 89  | 91029    | 25.0          | 25.1            |       |
| 50 2,4,5-Trichlorophenol      | 196 | 6.863     | 6.863         | 0.000         | 97  | 100352   | 25.0          | 26.6            |       |
| 52 1,1'-Biphenyl              | 154 | 6.998     | 6.998         | 0.000         | 95  | 386433   | 25.0          | 25.5            |       |
| 53 2-Chloronaphthalene        | 162 | 7.016     | 7.022         | -0.006        | 96  | 288823   | 25.0          | 25.4            |       |
| 54 Phenyl ether               | 170 | 7.098     | 7.098         | 0.000         | 87  | 206015   | 25.0          | 26.0            |       |
| 55 2-Nitroaniline             | 65  | 7.134     | 7.134         | 0.000         | 96  | 94683    | 25.0          | 26.9            |       |
| 57 1,3-Dimethylnaphthalene    | 156 | 7.234     | 7.234         | 0.000         | 92  | 251008   | 25.0          | 26.8            |       |
| 58 Dimethyl phthalate         | 163 | 7.310     | 7.316         | -0.006        | 99  | 295382   | 25.0          | 26.1            |       |
| 59 Coumarin                   | 146 | 7.334     | 7.340         | -0.006        | 78  | 93235    | 25.0          | 27.7            |       |
| 60 2,6-Dinitrotoluene         | 165 | 7.369     | 7.369         | 0.000         | 95  | 70164    | 25.0          | 26.9            |       |
| 63 Acenaphthylene             | 152 | 7.434     | 7.434         | 0.000         | 98  | 414363   | 25.0          | 25.0            |       |
| 64 3-Nitroaniline             | 138 | 7.539     | 7.545         | -0.006        | 92  | 69805    | 25.0          | 26.2            |       |
| * 65 Acenaphthene-d10         | 164 | 7.575     | 7.575         | 0.000         | 93  | 373849   | 40.0          | 40.0            |       |
| 66 3,5-di-tert-butyl-4-hydrox | 205 | 7.587     | 7.587         | 0.000         | 97  | 268739   | 25.0          | 25.8            |       |
| 67 Acenaphthene               | 154 | 7.604     | 7.604         | 0.000         | 94  | 272116   | 25.0          | 25.7            |       |
| 68 2,4-Dinitrophenol          | 184 | 7.639     | 7.645         | -0.006        | 97  | 77358    | 50.0          | 50.8            |       |
| 69 4-Nitrophenol              | 65  | 7.734     | 7.739         | -0.005        | 92  | 91881    | 50.0          | 50.4            |       |
| 70 2,4-Dinitrotoluene         | 165 | 7.763     | 7.769         | -0.006        | 94  | 86104    | 25.0          | 26.5            |       |
| 71 Dibenzofuran               | 168 | 7.775     | 7.775         | 0.000         | 95  | 382641   | 25.0          | 25.5            |       |
| 72 2,3,4,6-Tetrachlorophenol  | 232 | 7.904     | 7.904         | 0.000         | 93  | 69945    | 25.0          | 25.5            |       |
| 73 Diethyl phthalate          | 149 | 8.004     | 8.004         | 0.000         | 98  | 278189   | 25.0          | 26.4            |       |
| 75 4-Chlorophenyl phenyl ethe | 204 | 8.110     | 8.110         | 0.000         | 85  | 149115   | 25.0          | 26.0            |       |
| 74 Fluorene                   | 166 | 8.116     | 8.116         | 0.000         | 95  | 308483   | 25.0          | 26.2            |       |
| 76 4-Nitroaniline             | 138 | 8.157     | 8.169         | -0.012        | 91  | 59085    | 25.0          | 26.9            |       |
| 77 4,6-Dinitro-2-methylphenol | 198 | 8.175     | 8.181         | -0.006        | 88  | 97269    | 50.0          | 51.8            |       |
| 78 N-Nitrosodiphenylamine     | 169 | 8.234     | 8.239         | -0.005        | 67  | 420408   | 42.5          | 51.5            |       |
| 79 1,2-Diphenylhydrazine      | 77  | 8.269     | 8.269         | 0.000         | 97  | 324493   | 25.0          | 26.7            |       |
| 81 4-Bromophenyl phenyl ether | 248 | 8.592     | 8.592         | 0.000         | 88  | 84016    | 25.0          | 25.3            |       |
| 82 Hexachlorobenzene          | 284 | 8.663     | 8.663         | 0.000         | 98  | 85661    | 25.0          | 25.6            |       |
| 84 Pentachlorophenol          | 266 | 8.863     | 8.863         | 0.000         | 94  | 80339    | 50.0          | 50.0            |       |
| 85 Pentachloronitrobenzene    | 237 | 8.875     | 8.875         | 0.000         | 88  | 37291    | 25.0          | 28.8            |       |
| 86 n-Octadecane               | 57  | 8.916     | 8.916         | 0.000         | 91  | 243413   | 25.0          | 24.8            |       |
| * 87 Phenanthrene-d10         | 188 | 9.045     | 9.045         | 0.000         | 99  | 533945   | 40.0          | 40.0            |       |
| 88 Phenanthrene               | 178 | 9.063     | 9.069         | -0.006        | 97  | 387315   | 25.0          | 25.0            |       |
| 89 Anthracene                 | 178 | 9.116     | 9.116         | 0.000         | 99  | 394273   | 25.0          | 25.8            |       |
| 90 Carbazole                  | 167 | 9.281     | 9.281         | 0.000         | 96  | 301507   | 25.0          | 25.5            |       |
| 91 Di-n-butyl phthalate       | 149 | 9.604     | 9.604         | 0.000         | 100 | 376453   | 25.0          | 25.7            |       |
| 92 Fluoranthene               | 202 | 10.239    | 10.239        | 0.000         | 98  | 328057   | 25.0          | 25.7            |       |
| 93 Benzidine                  | 184 | 10.375    | 10.375        | 0.000         | 99  | 81219    | 25.0          | 19.0            |       |
| 94 Pyrene                     | 202 | 10.475    | 10.475        | 0.000         | 98  | 319223   | 25.0          | 26.3            |       |
| 95 Bisphenol-A                | 213 | 10.592    | 10.533        | 0.059         | 89  | 5966     | 25.0          | 2.85            |       |

| Compound                       | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|--------------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| 97 Butyl benzyl phthalate      | 149 | 11.163       | 11.169           | -0.006           | 98 | 116592   | 25.0             | 26.8               |       |
| 99 Carbamazepine               | 193 | 11.304       | 11.310           | -0.006           | 92 | 70661    | 25.0             | 25.1               |       |
| 100 3,3'-Dichlorobenzidine     | 252 | 11.822       | 11.822           | 0.000            | 99 | 66645    | 25.0             | 26.2               |       |
| 101 Benzo[a]anthracene         | 228 | 11.845       | 11.845           | 0.000            | 98 | 207622   | 25.0             | 25.7               |       |
| * 102 Chrysene-d12             | 240 | 11.863       | 11.863           | 0.000            | 99 | 270333   | 40.0             | 40.0               |       |
| 104 Bis(2-ethylhexyl) phthalat | 149 | 11.869       | 11.869           | 0.000            | 89 | 152940   | 25.0             | 26.2               |       |
| 103 Chrysene                   | 228 | 11.892       | 11.898           | -0.006           | 99 | 196653   | 25.0             | 27.0               |       |
| 105 Di-n-octyl phthalate       | 149 | 12.739       | 12.745           | -0.006           | 98 | 209222   | 25.0             | 28.4               |       |
| 106 Benzo[b]fluoranthene       | 252 | 13.286       | 13.292           | -0.006           | 99 | 144802   | 25.0             | 25.9               |       |
| 107 Benzo[k]fluoranthene       | 252 | 13.321       | 13.327           | -0.006           | 99 | 156027   | 25.0             | 27.9               |       |
| 108 Benzo[a]pyrene             | 252 | 13.739       | 13.745           | -0.006           | 97 | 129914   | 25.0             | 26.4               |       |
| * 109 Perylene-d12             | 264 | 13.821       | 13.821           | 0.000            | 99 | 174000   | 40.0             | 40.0               |       |
| 110 Indeno[1,2,3-cd]pyrene     | 276 | 15.415       | 15.421           | -0.006           | 99 | 100080   | 25.0             | 24.8               |       |
| 111 Dibenz(a,h)anthracene      | 278 | 15.451       | 15.457           | -0.006           | 98 | 103655   | 25.0             | 26.3               |       |
| 112 Benzo[g,h,i]perylene       | 276 | 15.862       | 15.874           | -0.012           | 98 | 105450   | 25.0             | 24.4               |       |

### QC Flag Legend

Processing Flags

NC - Not Calibrated

### Reagents:

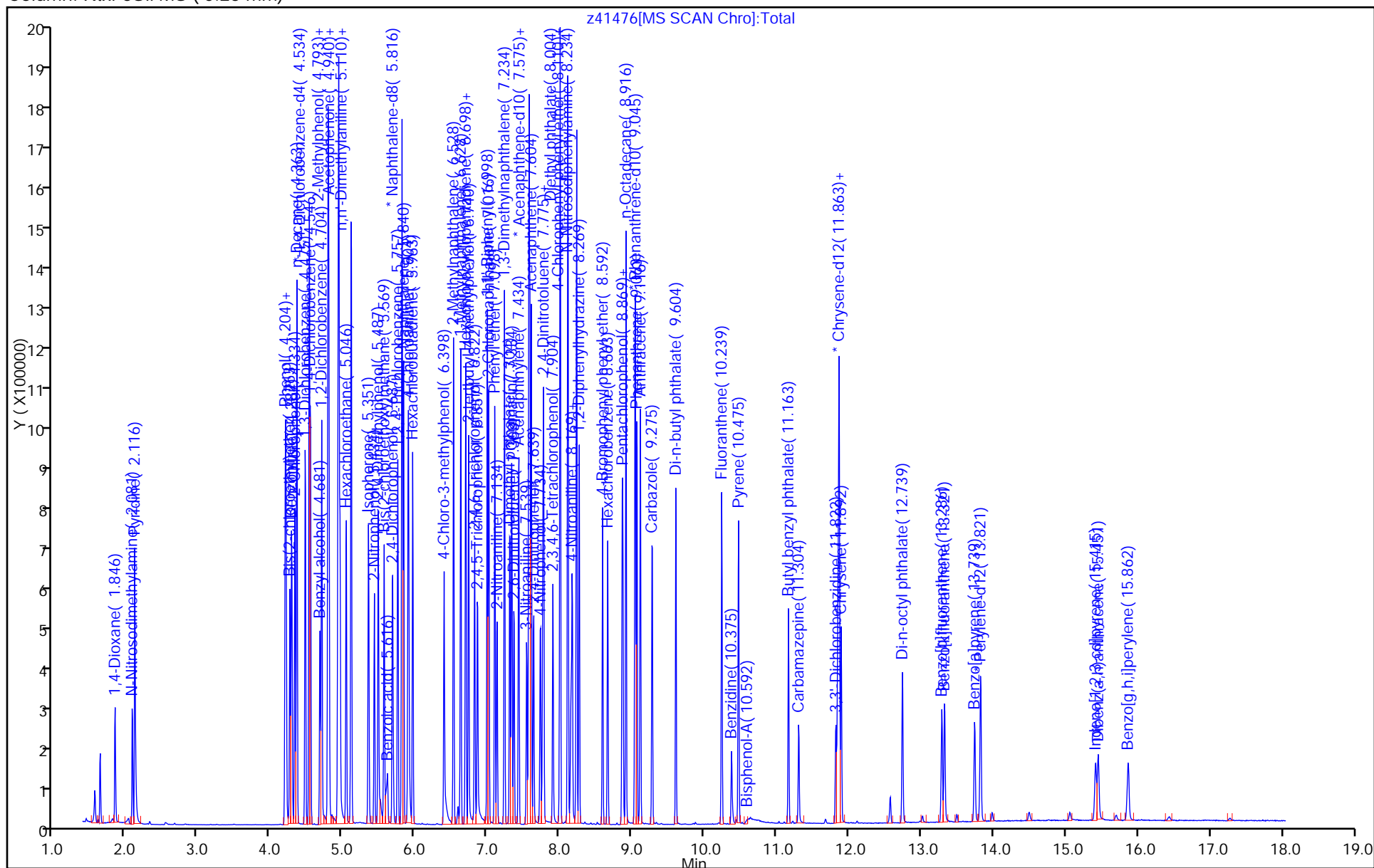
SM\_ICV-long\_00010

Amount Added: 1.00

Units: mL

|                 |  |                |               |
|-----------------|--|----------------|---------------|
| Data File:      | \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160309-38213.b\\z41476.D |                |               |
| Injection Date: | 09-Mar-2016 15:06:30   | Instrument ID: | CBNAMS11      |
| Lims ID:        | icv  |                |               |
| Client ID:      |  |                |               |
| Injection Vol:  | 1.0 ul   | Dil. Factor:   | 1.0000        |
| Method:         | 8270_11R_9   | Limit Group:   | SV 8270D ICAL |
| Column:         | Rtxi-5Sil MS ( 0.25 mm)  |                |               |

Operator ID:  
Worklist Smp#: 18  
ALS Bottle#: 18



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-109716-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: ICV 460-354905/19 Calibration Date: 03/09/2016 15:30  
Instrument ID: CBNAMS11 Calib Start Date: 03/09/2016 12:16  
GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 03/09/2016 14:41  
Lab File ID: z41477.D Conc. Units: ug/L

| ANALYTE      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D   | MAX<br>%D |
|--------------|---------------|---------|--------|---------|----------------|-----------------|------|-----------|
| Benzaldehyde | Ave           | 1.187   | 1.447  | 0.0100  | 30500          | 25000           | 21.9 | 30.0      |
| Caprolactam  | Ave           | 0.0844  | 0.1080 | 0.0100  | 32000          | 25000           | 28.0 | 30.0      |
| Atrazine     | Ave           | 0.2102  | 0.2651 | 0.0100  | 31500          | 25000           | 26.2 | 30.0      |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41477.D  
 Lims ID: icv  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 09-Mar-2016 15:30:30 ALS Bottle#: 19 Worklist Smp#: 19  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038213-019  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Sublist:  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 09-Mar-2016 13:51:02 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK028

First Level Reviewer: szczech

Date: 09-Mar-2016 15:57:40

| Compound                    | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 5 Benzaldehyde              | 77  | 4.099        | 4.099            | -0.001           | 96  | 219579   | 25.0             | 30.5               |       |
| * 14 1,4-Dichlorobenzene-d4 | 152 | 4.528        | 4.528            | 0.000            | 98  | 242802   | 40.0             | 40.0               |       |
| * 38 Naphthalene-d8         | 136 | 5.816        | 5.816            | 0.000            | 100 | 814618   | 40.0             | 40.0               |       |
| 42 Caprolactam              | 113 | 6.228        | 6.240            | -0.012           | 89  | 54990    | 25.0             | 32.0               |       |
| * 65 Acenaphthene-d10       | 164 | 7.569        | 7.575            | -0.006           | 93  | 391189   | 40.0             | 40.0               |       |
| 83 Atrazine                 | 200 | 8.757        | 8.763            | -0.006           | 93  | 99678    | 25.0             | 31.5               |       |
| * 87 Phenanthrene-d10       | 188 | 9.039        | 9.045            | -0.006           | 99  | 601527   | 40.0             | 40.0               |       |
| * 102 Chrysene-d12          | 240 | 11.857       | 11.863           | -0.006           | 99  | 328254   | 40.0             | 40.0               |       |
| * 109 Perylene-d12          | 264 | 13.821       | 13.821           | 0.000            | 98  | 196544   | 40.0             | 40.0               |       |

**Reagents:**

SM\_ICV-short\_00009

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160309-38213.b\\z41477.D

Injection Date: 09-Mar-2016 15:30:30

Instrument ID: CBNAMS11

Operator ID:

Lims ID: icv

Worklist Smp#: 19

Client ID:

Injection Vol: 1.0 ul

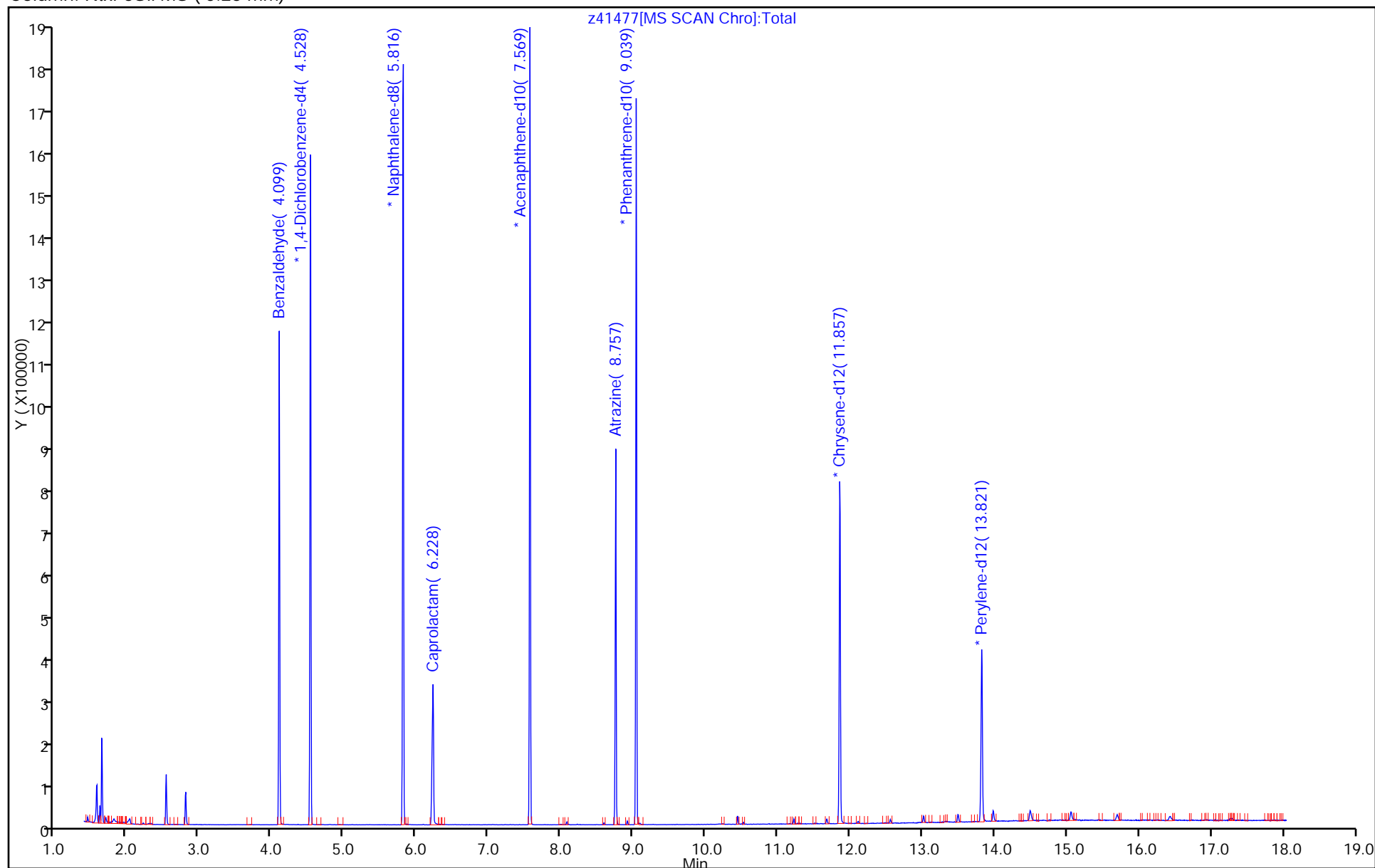
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: 8270\_11R\_9

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.: 460-109716-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 460-355365/2 Calibration Date: 03/10/2016 19:34

Instrument ID: CBNAMS11 Calib Start Date: 03/09/2016 08:34

GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 03/09/2016 11:52

Lab File ID: z41543.D Conc. Units: ug/L

| ANALYTE                      | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|------------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| 1,4-Dioxane                  | Ave        | 0.6278  | 0.5854 | 0.0100  | 46600       | 50000        | -6.7  | 20.0   |
| N-Nitrosodimethylamine       | Ave        | 0.8667  | 0.8340 |         | 48100       | 50000        | -3.8  | 20.0   |
| Pyridine                     | Ave        | 1.510   | 1.458  |         | 48300       | 50000        | -3.4  | 20.0   |
| Aniline                      | Ave        | 1.996   | 2.129  |         | 53300       | 50000        | 6.6   | 20.0   |
| Phenol                       | Ave        | 1.815   | 1.880  | 0.8000  | 51800       | 50000        | 3.6   | 20.0   |
| Bis(2-chloroethyl)ether      | Ave        | 1.387   | 1.337  | 0.7000  | 48200       | 50000        | -3.6  | 20.0   |
| 2-Chlorophenol               | Ave        | 1.354   | 1.383  | 0.8000  | 51100       | 50000        | 2.1   | 20.0   |
| n-Decane                     | Ave        | 1.721   | 1.508  | 0.0100  | 43800       | 50000        | -12.4 | 20.0   |
| 1,3-Dichlorobenzene          | Ave        | 1.559   | 1.561  |         | 50100       | 50000        | 0.1   | 20.0   |
| 1,4-Dichlorobenzene          | Ave        | 1.584   | 1.597  |         | 50400       | 50000        | 0.8   | 20.0   |
| Benzyl alcohol               | Qua        |         | 0.7964 | 0.0100  | 55100       | 50000        | 10.1  | 20.0   |
| 1,2-Dichlorobenzene          | Ave        | 1.461   | 1.470  |         | 50300       | 50000        | 0.6   | 20.0   |
| 2,2'-oxybis[1-chloropropane] | Ave        | 1.909   | 1.718  | 0.0100  | 45000       | 50000        | -10.0 | 20.0   |
| 2-Methylphenol               | Ave        | 1.200   | 1.256  | 0.7000  | 52300       | 50000        | 4.7   | 20.0   |
| Acetophenone                 | Ave        | 1.704   | 1.781  | 0.0100  | 52300       | 50000        | 4.5   | 20.0   |
| N-Nitrosodi-n-propylamine    | Ave        | 0.8928  | 0.9241 | 0.5000  | 51700       | 50000        | 3.5   | 20.0   |
| 3 & 4 Methylphenol           | Ave        | 1.214   | 1.263  |         | 52000       | 50000        | 4.1   | 20.0   |
| 4-Methylphenol               | Ave        | 1.214   | 1.263  | 0.6000  | 52000       | 50000        | 4.1   | 20.0   |
| Hexachloroethane             | Ave        | 0.5920  | 0.5944 | 0.3000  | 50200       | 50000        | 0.4   | 20.0   |
| n,n'-Dimethylaniline         | Ave        | 1.744   | 2.012  | 0.0100  | 57700       | 50000        | 15.4  | 20.0   |
| Nitrobenzene                 | Ave        | 0.5577  | 0.5648 | 0.2000  | 50600       | 50000        | 1.3   | 20.0   |
| Isophorone                   | Ave        | 0.6538  | 0.6523 | 0.4000  | 49900       | 50000        | 16.1  | 20.0   |
| 2-Nitrophenol                | Ave        | 0.1972  | 0.1955 | 0.1000  | 49600       | 50000        | -0.8  | 20.0   |
| 2,4-Dimethylphenol           | Ave        | 0.3085  | 0.3156 | 0.2000  | 51200       | 50000        | 2.3   | 20.0   |
| Bis(2-chloroethoxy)methane   | Ave        | 0.4080  | 0.4037 | 0.3000  | 49500       | 50000        | -1.0  | 20.0   |
| Benzoic acid                 | Qua        |         | 0.1295 |         | 46000       | 50000        | -8.1  | 20.0   |
| 2,4-Dichlorophenol           | Ave        | 0.2884  | 0.2918 | 0.2000  | 50600       | 50000        | 1.1   | 20.0   |
| 1,2,4-Trichlorobenzene       | Ave        | 0.3452  | 0.3393 |         | 49100       | 50000        | -1.7  | 20.0   |
| Naphthalene                  | Ave        | 1.053   | 1.048  | 0.7000  | 49700       | 50000        | -0.5  | 20.0   |
| 4-Chloroaniline              | Ave        | 0.3933  | 0.4011 | 0.0100  | 51000       | 50000        | 2.0   | 20.0   |
| Hexachlorobutadiene          | Ave        | 0.2044  | 0.2036 | 0.0100  | 49800       | 50000        | -0.4  | 20.0   |
| 4-Chloro-3-methylphenol      | Ave        | 0.2823  | 0.2898 |         | 51300       | 50000        | 2.6   | 20.0   |
| 2-Methylnaphthalene          | Ave        | 0.6804  | 0.6774 | 0.4000  | 49800       | 50000        | -0.4  | 20.0   |
| 1-Methylnaphthalene          | Ave        | 0.5835  | 0.5925 | 0.0100  | 50800       | 50000        | 1.5   | 20.0   |
| Hexachlorocyclopentadiene    | QuaF       |         | 0.4180 | 0.0500  | 64300       | 50000        | 28.7* | 20.0   |
| 1,2,4,5-Tetrachlorobenzene   | Ave        | 0.6507  | 0.6459 | 0.0100  | 49600       | 50000        | -0.7  | 20.0   |
| 2-tertbutyl-4-methylphenol   | Ave        | 0.4263  | 0.4656 | 0.0100  | 54600       | 50000        | 9.2   | 20.0   |
| 2,4,6-Trichlorophenol        | Ave        | 0.3876  | 0.3988 | 0.2000  | 51400       | 50000        | 2.9   | 20.0   |
| 2,4,5-Trichlorophenol        | Ave        | 0.4033  | 0.4334 | 0.2000  | 53700       | 50000        | 7.4   | 20.0   |
| 1,1'-Biphenyl                | Ave        | 1.622   | 1.614  | 0.0100  | 49800       | 50000        | -0.5  | 20.0   |
| 2-Chloronaphthalene          | Ave        | 1.215   | 1.192  | 0.8000  | 49000       | 50000        | -2.0  | 20.0   |

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-109716-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 460-355365/2 Calibration Date: 03/10/2016 19:34

Instrument ID: CBNAMS11 Calib Start Date: 03/09/2016 08:34

GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 03/09/2016 11:52

Lab File ID: z41543.D Conc. Units: ug/L

| ANALYTE                        | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D    | MAX<br>%D |
|--------------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| Phenyl ether                   | Ave           | 0.8474  | 0.8503 | 0.0100  | 50200          | 50000           | 0.3   | 20.0      |
| 2-Nitroaniline                 | Ave           | 0.3766  | 0.3675 | 0.0100  | 48800          | 50000           | -2.4  | 20.0      |
| 1,3-Dimethylnaphthalene        | Ave           | 1.003   | 1.017  | 0.0100  | 50700          | 50000           | 1.4   | 20.0      |
| Dimethyl phthalate             | Ave           | 1.209   | 1.186  | 0.0100  | 49100          | 50000           | -1.9  | 20.0      |
| Coumarin                       | Ave           | 0.1757  | 0.1804 | 0.0100  | 51300          | 50000           | 2.7   | 20.0      |
| 2,6-Dinitrotoluene             | Ave           | 0.2795  | 0.2797 | 0.2000  | 50000          | 50000           | 0.0   | 20.0      |
| Acenaphthylene                 | Ave           | 1.774   | 1.757  | 0.9000  | 49500          | 50000           | -0.9  | 20.0      |
| 3-Nitroaniline                 | Ave           | 0.2853  | 0.2832 | 0.0100  | 49600          | 50000           | -0.7  | 20.0      |
| 3,5-di-tert-butyl-4-hydroxytol | Ave           | 1.114   | 1.259  | 0.0100  | 56500          | 50000           | 13.0  | 20.0      |
| Acenaphthene                   | Ave           | 1.131   | 1.108  | 0.9000  | 49000          | 50000           | -2.1  | 20.0      |
| 2,4-Dinitrophenol              | Qua           |         | 0.1479 | 0.0100  | 87500          | 100000          | -12.5 | 20.0      |
| 4-Nitrophenol                  | Ave           | 0.1951  | 0.2055 | 0.0100  | 105000         | 100000          | 5.3   | 20.0      |
| 2,4-Dinitrotoluene             | Ave           | 0.3482  | 0.3436 | 0.2000  | 49300          | 50000           | -1.3  | 20.0      |
| Dibenzofuran                   | Ave           | 1.604   | 1.567  | 0.8000  | 48900          | 50000           | -2.3  | 20.0      |
| 2,3,4,6-Tetrachlorophenol      | Ave           | 0.2930  | 0.3012 | 0.0100  | 51400          | 50000           | 2.8   | 20.0      |
| Diethyl phthalate              | Ave           | 1.126   | 1.113  | 0.0100  | 49400          | 50000           | -1.2  | 20.0      |
| 4-Chlorophenyl phenyl ether    | Ave           | 0.6145  | 0.6211 | 0.4000  | 50500          | 50000           | 1.1   | 20.0      |
| Fluorene                       | Ave           | 1.260   | 1.255  | 0.9000  | 49800          | 50000           | -0.3  | 20.0      |
| 4-Nitroaniline                 | Ave           | 0.2353  | 0.2284 | 0.0100  | 48500          | 50000           | -3.0  | 20.0      |
| 4,6-Dinitro-2-methylphenol     | Lin2          |         | 0.1375 | 0.0100  | 95900          | 100000          | -4.1  | 20.0      |
| N-Nitrosodiphenylamine         | Ave           | 0.6120  | 0.6382 | 0.0100  | 104000         | 100000          | 4.3   | 20.0      |
| 1,2-Diphenylhydrazine          | Ave           | 0.9090  | 0.9149 | 0.0100  | 50300          | 50000           | 0.6   | 20.0      |
| 4-Bromophenyl phenyl ether     | Ave           | 0.2492  | 0.2555 | 0.1000  | 51300          | 50000           | 2.5   | 20.0      |
| Hexachlorobenzene              | Ave           | 0.2505  | 0.2626 | 0.1000  | 52400          | 50000           | 4.8   | 20.0      |
| Pentachlorophenol              | Qua           |         | 0.1360 | 0.0500  | 104000         | 100000          | 4.3   | 20.0      |
| Pentachloronitrobenzene        | Ave           | 0.0971  | 0.1046 | 0.0100  | 53800          | 50000           | 7.6   | 20.0      |
| n-Octadecane                   | Ave           | 0.7338  | 0.7320 | 0.0100  | 49900          | 50000           | -0.2  | 20.0      |
| Phenanthrene                   | Ave           | 1.160   | 1.146  | 0.7000  | 49400          | 50000           | -1.2  | 20.0      |
| Anthracene                     | Ave           | 1.143   | 1.148  | 0.7000  | 50200          | 50000           | 0.4   | 20.0      |
| Carbazole                      | Ave           | 0.8872  | 0.8762 | 0.0100  | 49400          | 50000           | -1.2  | 20.0      |
| Di-n-butyl phthalate           | Ave           | 1.096   | 1.089  | 0.0100  | 49700          | 50000           | -0.6  | 20.0      |
| Fluoranthene                   | Ave           | 0.9574  | 0.9122 | 0.6000  | 47600          | 50000           | -4.7  | 20.0      |
| Benzidine                      | Ave           | 0.3206  | 0.2892 |         | 45100          | 50000           | -9.8  | 20.0      |
| Pyrene                         | Ave           | 1.796   | 1.879  | 0.6000  | 52300          | 50000           | 4.6   | 20.0      |
| Bisphenol-A                    | Ave           | 0.3100  | 0.5492 |         | 88600          | 50000           | 77.2* | 20.0      |
| Butyl benzyl phthalate         | Ave           | 0.6443  | 0.6706 | 0.0100  | 52000          | 50000           | 4.1   | 20.0      |
| 2,3,7,8-TCDD                   | Ave           | 0.1645  | 0.2158 | 0.0100  | 656            | 500             | 31.1* | 20.0      |
| Carbamazepine                  | Ave           | 0.4163  | 0.4106 | 0.0100  | 49300          | 50000           | -1.4  | 20.0      |
| 3,3'-Dichlorobenzidine         | Ave           | 0.3762  | 0.3941 | 0.0100  | 52400          | 50000           | 4.8   | 20.0      |
| Benzo[a]anthracene             | Ave           | 1.194   | 1.186  | 0.8000  | 49700          | 50000           | -0.6  | 20.0      |



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 460-355365/2 Calibration Date: 03/10/2016 19:34  
 Instrument ID: CBNAMS11 Calib Start Date: 03/09/2016 08:34  
 GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 03/09/2016 11:52  
 Lab File ID: z41543.D Conc. Units: ug/L

| ANALYTE                     | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D    | MAX<br>%D |
|-----------------------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| Bis(2-ethylhexyl) phthalate | Ave           | 0.8636  | 0.9153 | 0.0100  | 53000          | 50000           | 6.0   | 20.0      |
| Chrysene                    | Ave           | 1.076   | 1.048  | 0.7000  | 48700          | 50000           | -2.5  | 20.0      |
| Di-n-octyl phthalate        | Ave           | 1.691   | 1.947  | 0.0100  | 57600          | 50000           | 15.2  | 20.0      |
| Benzo[b]fluoranthene        | Ave           | 1.286   | 1.285  | 0.7000  | 50000          | 50000           | -0.0  | 20.0      |
| Benzo[k]fluoranthene        | Ave           | 1.287   | 1.311  | 0.7000  | 50900          | 50000           | 1.9   | 20.0      |
| Benzo[a]pyrene              | Ave           | 1.131   | 1.159  | 0.7000  | 51200          | 50000           | 2.4   | 20.0      |
| Indeno[1,2,3-cd]pyrene      | Ave           | 0.9284  | 0.9252 | 0.5000  | 49800          | 50000           | -0.3  | 20.0      |
| Dibenz(a,h)anthracene       | Ave           | 0.9052  | 0.8992 | 0.4000  | 49700          | 50000           | -0.7  | 20.0      |
| Benzo[g,h,i]perylene        | Ave           | 0.9948  | 0.8827 | 0.5000  | 44400          | 50000           | -11.3 | 20.0      |
| 2-Fluorophenol (Surr)       | Ave           | 1.421   | 1.457  | 0.0100  | 51300          | 50000           | 2.5   | 20.0      |
| Phenol-d5 (Surr)            | Ave           | 1.702   | 1.777  | 0.0100  | 52200          | 50000           | 4.4   | 20.0      |
| Nitrobenzene-d5 (Surr)      | Ave           | 0.4251  | 0.4397 | 0.0100  | 51700          | 50000           | 3.4   | 20.0      |
| 2-Fluorobiphenyl            | Ave           | 1.503   | 1.562  | 0.0100  | 52000          | 50000           | 3.9   | 20.0      |
| 2,4,6-Tribromophenol (Surr) | Ave           | 0.1653  | 0.1837 | 0.0100  | 55600          | 50000           | 11.1  | 20.0      |
| Terphenyl-d14 (Surr)        | Ave           | 1.272   | 1.407  | 0.0100  | 55300          | 50000           | 10.6  | 20.0      |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160310-38294.b\z41543.D  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 10-Mar-2016 19:34:30 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038294-002  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Sublist: chrom-8270\_11R\_9\*sub18  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160310-38294.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 11-Mar-2016 13:21:50 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK027

First Level Reviewer: szczecha

Date: 11-Mar-2016 13:21:50

| Compound                      | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-------------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| 1 1,4-Dioxane                 | 88  | 1.846        | 1.846            | 0.000            | 98 | 181246   | 50.0             | 46.6               |       |
| 2 N-Nitrosodimethylamine      | 74  | 2.093        | 2.093            | 0.000            | 88 | 258200   | 50.0             | 48.1               |       |
| 3 Pyridine                    | 79  | 2.116        | 2.116            | 0.000            | 87 | 451422   | 50.0             | 48.3               |       |
| \$ 4 2-Fluorophenol           | 112 | 3.269        | 3.269            | 0.000            | 93 | 451002   | 50.0             | 51.3               |       |
| \$ 6 Phenol-d5                | 99  | 4.204        | 4.204            | 0.000            | 92 | 550296   | 50.0             | 52.2               |       |
| 7 Phenol                      | 94  | 4.216        | 4.216            | 0.000            | 90 | 582039   | 50.0             | 51.8               |       |
| 8 Aniline                     | 93  | 4.216        | 4.216            | 0.000            | 97 | 659116   | 50.0             | 53.3               |       |
| 9 Bis(2-chloroethyl)ether     | 93  | 4.275        | 4.275            | 0.000            | 95 | 413790   | 50.0             | 48.2               |       |
| 10 Benzonitrile               | 103 | 4.304        | 4.304            | 0.000            | 0  | 787597   | NC               | NC                 |       |
| 11 2-Chlorophenol             | 128 | 4.340        | 4.340            | 0.000            | 93 | 428135   | 50.0             | 51.1               |       |
| 12 n-Decane                   | 43  | 4.357        | 4.357            | 0.000            | 87 | 466934   | 50.0             | 43.8               |       |
| 13 1,3-Dichlorobenzene        | 146 | 4.475        | 4.475            | 0.000            | 94 | 483280   | 50.0             | 50.1               |       |
| * 14 1,4-Dichlorobenzene-d4   | 152 | 4.534        | 4.534            | 0.000            | 97 | 247681   | 40.0             | 40.0               |       |
| 15 1,4-Dichlorobenzene        | 146 | 4.551        | 4.551            | 0.000            | 94 | 494368   | 50.0             | 50.4               |       |
| 16 Benzyl alcohol             | 108 | 4.687        | 4.687            | 0.000            | 91 | 246579   | 50.0             | 55.1               |       |
| 17 1,2-Dichlorobenzene        | 146 | 4.704        | 4.704            | 0.000            | 94 | 455192   | 50.0             | 50.3               |       |
| 19 2,2'-oxybis[1-chloropropan | 45  | 4.804        | 4.804            | 0.000            | 93 | 531972   | 50.0             | 45.0               |       |
| 18 2-Methylphenol             | 108 | 4.804        | 4.804            | 0.000            | 84 | 388884   | 50.0             | 52.3               |       |
| 22 Acetophenone               | 105 | 4.951        | 4.951            | 0.000            | 95 | 551402   | 50.0             | 52.3               |       |
| 21 N-Nitrosodi-n-propylamine  | 70  | 4.951        | 4.951            | 0.000            | 86 | 286097   | 50.0             | 51.7               |       |
| 24 4-Methylphenol             | 108 | 4.969        | 4.969            | 0.000            | 92 | 391006   | 50.0             | 52.0               |       |
| 23 3 & 4 Methylphenol         | 108 | 4.969        | 4.969            | 0.000            | 88 | 391006   | 50.0             | 52.0               |       |
| 25 Hexachloroethane           | 117 | 5.040        | 5.040            | 0.000            | 94 | 184013   | 50.0             | 50.2               |       |
| \$ 26 Nitrobenzene-d5         | 82  | 5.098        | 5.098            | 0.000            | 90 | 476092   | 50.0             | 51.7               |       |
| 28 n,n'-Dimethylaniline       | 120 | 5.116        | 5.116            | 0.000            | 92 | 622876   | 50.0             | 57.7               |       |
| 27 Nitrobenzene               | 77  | 5.122        | 5.122            | 0.000            | 92 | 611577   | 50.0             | 50.6               |       |
| 31 Isophorone                 | 82  | 5.363        | 5.363            | 0.000            | 99 | 706404   | 50.0             | 49.9               |       |
| 32 2-Nitrophenol              | 139 | 5.434        | 5.434            | 0.000            | 88 | 211718   | 50.0             | 49.6               |       |
| 33 2,4-Dimethylphenol         | 122 | 5.493        | 5.493            | 0.000            | 89 | 341793   | 50.0             | 51.2               |       |
| 34 Bis(2-chloroethoxy)methane | 93  | 5.569        | 5.569            | 0.000            | 98 | 437174   | 50.0             | 49.5               |       |

| 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 | 5.651     | 5.651         | 0.000         | 88  | 140275   | 50.0          | 46.0            |       |
| 36 2,4-Dichlorophenol         | 162 | 5.687     | 5.687         | 0.000         | 95  | 315924   | 50.0          | 50.6            |       |
| 37 1,2,4-Trichlorobenzene     | 180 | 5.757     | 5.757         | 0.000         | 94  | 367367   | 50.0          | 49.1            |       |
| * 38 Naphthalene-d8           | 136 | 5.816     | 5.816         | 0.000         | 100 | 866298   | 40.0          | 40.0            |       |
| 39 Naphthalene                | 128 | 5.840     | 5.840         | 0.000         | 100 | 1134962  | 50.0          | 49.7            |       |
| 40 4-Chloroaniline            | 127 | 5.904     | 5.904         | 0.000         | 96  | 434338   | 50.0          | 51.0            |       |
| 41 Hexachlorobutadiene        | 225 | 5.963     | 5.963         | 0.000         | 95  | 220436   | 50.0          | 49.8            |       |
| 43 4-Chloro-3-methylphenol    | 107 | 6.398     | 6.398         | 0.000         | 96  | 313807   | 50.0          | 51.3            |       |
| 44 2-Methylnaphthalene        | 142 | 6.528     | 6.528         | 0.000         | 85  | 733580   | 50.0          | 49.8            |       |
| 45 1-Methylnaphthalene        | 142 | 6.628     | 6.628         | 0.000         | 93  | 641640   | 50.0          | 50.8            |       |
| 46 Hexachlorocyclopentadiene  | 237 | 6.692     | 6.692         | 0.000         | 96  | 216027   | 50.0          | 64.3            |       |
| 47 1,2,4,5-Tetrachlorobenzene | 216 | 6.698     | 6.698         | 0.000         | 97  | 333856   | 50.0          | 49.6            |       |
| 48 2-tertbutyl-4-methylphenol | 149 | 6.739     | 6.739         | 0.000         | 90  | 504221   | 50.0          | 54.6            |       |
| 49 2,4,6-Trichlorophenol      | 196 | 6.822     | 6.822         | 0.000         | 89  | 206102   | 50.0          | 51.4            |       |
| 50 2,4,5-Trichlorophenol      | 196 | 6.863     | 6.863         | 0.000         | 96  | 223988   | 50.0          | 53.7            |       |
| \$ 51 2-Fluorobiphenyl        | 172 | 6.898     | 6.898         | 0.000         | 98  | 807448   | 50.0          | 52.0            |       |
| 52 1,1'-Biphenyl              | 154 | 6.998     | 6.998         | 0.000         | 95  | 834354   | 50.0          | 49.8            |       |
| 53 2-Chloronaphthalene        | 162 | 7.016     | 7.016         | 0.000         | 96  | 615949   | 50.0          | 49.0            |       |
| 54 Phenyl ether               | 170 | 7.098     | 7.098         | 0.000         | 86  | 439513   | 50.0          | 50.2            |       |
| 55 2-Nitroaniline             | 65  | 7.134     | 7.134         | 0.000         | 96  | 189933   | 50.0          | 48.8            |       |
| 57 1,3-Dimethylnaphthalene    | 156 | 7.234     | 7.234         | 0.000         | 91  | 525646   | 50.0          | 50.7            |       |
| 58 Dimethyl phthalate         | 163 | 7.310     | 7.310         | 0.000         | 99  | 613258   | 50.0          | 49.1            |       |
| 59 Coumarin                   | 146 | 7.339     | 7.339         | 0.000         | 76  | 195331   | 50.0          | 51.3            |       |
| 60 2,6-Dinitrotoluene         | 165 | 7.369     | 7.369         | 0.000         | 94  | 144563   | 50.0          | 50.0            |       |
| 63 Acenaphthylene             | 152 | 7.434     | 7.434         | 0.000         | 98  | 908289   | 50.0          | 49.5            |       |
| 64 3-Nitroaniline             | 138 | 7.545     | 7.545         | 0.000         | 92  | 146362   | 50.0          | 49.6            |       |
| * 65 Acenaphthene-d10         | 164 | 7.569     | 7.569         | 0.000         | 93  | 413497   | 40.0          | 40.0            |       |
| 66 3,5-di-tert-butyl-4-hydrox | 205 | 7.581     | 7.581         | 0.000         | 98  | 650801   | 50.0          | 56.5            |       |
| 67 Acenaphthene               | 154 | 7.604     | 7.604         | 0.000         | 94  | 572522   | 50.0          | 49.0            |       |
| 68 2,4-Dinitrophenol          | 184 | 7.645     | 7.645         | 0.000         | 96  | 152933   | 100.0         | 87.5            |       |
| 69 4-Nitrophenol              | 65  | 7.739     | 7.739         | 0.000         | 92  | 212383   | 100.0         | 105.3           |       |
| 70 2,4-Dinitrotoluene         | 165 | 7.769     | 7.769         | 0.000         | 93  | 177584   | 50.0          | 49.3            |       |
| 71 Dibenzofuran               | 168 | 7.775     | 7.775         | 0.000         | 95  | 809947   | 50.0          | 48.9            |       |
| 72 2,3,4,6-Tetrachlorophenol  | 232 | 7.904     | 7.904         | 0.000         | 93  | 155661   | 50.0          | 51.4            |       |
| 73 Diethyl phthalate          | 149 | 8.004     | 8.004         | 0.000         | 93  | 575050   | 50.0          | 49.4            |       |
| 75 4-Chlorophenyl phenyl ethe | 204 | 8.104     | 8.104         | 0.000         | 87  | 321002   | 50.0          | 50.5            |       |
| 74 Fluorene                   | 166 | 8.116     | 8.116         | 0.000         | 97  | 648907   | 50.0          | 49.8            |       |
| 76 4-Nitroaniline             | 138 | 8.163     | 8.163         | 0.000         | 90  | 118032   | 50.0          | 48.5            |       |
| 77 4,6-Dinitro-2-methylphenol | 198 | 8.181     | 8.181         | 0.000         | 86  | 188659   | 100.0         | 95.9            |       |
| 78 N-Nitrosodiphenylamine     | 169 | 8.234     | 8.234         | 0.000         | 66  | 875970   | 100.0         | 104.3           |       |
| 79 1,2-Diphenylhydrazine      | 77  | 8.269     | 8.269         | 0.000         | 97  | 627864   | 50.0          | 50.3            |       |
| \$ 80 2,4,6-Tribromophenol    | 330 | 8.357     | 8.357         | 0.000         | 94  | 94929    | 50.0          | 55.6            |       |
| 81 4-Bromophenyl phenyl ether | 248 | 8.592     | 8.592         | 0.000         | 93  | 175345   | 50.0          | 51.3            |       |
| 82 Hexachlorobenzene          | 284 | 8.663     | 8.663         | 0.000         | 97  | 180196   | 50.0          | 52.4            |       |
| 84 Pentachlorophenol          | 266 | 8.863     | 8.863         | 0.000         | 93  | 186627   | 100.0         | 104.3           |       |
| 85 Pentachloronitrobenzene    | 237 | 8.875     | 8.875         | 0.000         | 88  | 71746    | 50.0          | 53.8            |       |
| 86 n-Octadecane               | 57  | 8.910     | 8.910         | 0.000         | 91  | 502341   | 50.0          | 49.9            |       |
| * 87 Phenanthrene-d10         | 188 | 9.039     | 9.039         | 0.000         | 99  | 548990   | 40.0          | 40.0            |       |
| 88 Phenanthrene               | 178 | 9.063     | 9.063         | 0.000         | 97  | 786473   | 50.0          | 49.4            |       |
| 89 Anthracene                 | 178 | 9.116     | 9.116         | 0.000         | 99  | 787747   | 50.0          | 50.2            |       |
| 90 Carbazole                  | 167 | 9.275     | 9.275         | 0.000         | 96  | 601274   | 50.0          | 49.4            |       |
| 91 Di-n-butyl phthalate       | 149 | 9.604     | 9.604         | 0.000         | 100 | 747365   | 50.0          | 49.7            |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|---------------|-----------------|-------|
| 92 Fluoranthene                | 202 | 10.239    | 10.239        | 0.000         | 98 | 625949   | 50.0          | 47.6            |       |
| 93 Benzidine                   | 184 | 10.375    | 10.375        | 0.000         | 99 | 198482   | 50.0          | 45.1            |       |
| 94 Pyrene                      | 202 | 10.475    | 10.475        | 0.000         | 98 | 612248   | 50.0          | 52.3            |       |
| 95 Bisphenol-A                 | 213 | 10.533    | 10.533        | 0.000         | 99 | 178943   | 50.0          | 88.6            |       |
| \$ 96 Terphenyl-d14            | 244 | 10.627    | 10.627        | 0.000         | 99 | 458292   | 50.0          | 55.3            |       |
| 97 Butyl benzyl phthalate      | 149 | 11.163    | 11.163        | 0.000         | 98 | 218489   | 50.0          | 52.0            |       |
| 98 2,3,7,8-TCDD                | 320 | 11.280    | 11.280        | 0.000         | 30 | 703      | 0.5000        | 0.6557          |       |
| 99 Carbamazepine               | 193 | 11.304    | 11.304        | 0.000         | 92 | 133784   | 50.0          | 49.3            |       |
| 100 3,3'-Dichlorobenzidine     | 252 | 11.816    | 11.816        | 0.000         | 99 | 128410   | 50.0          | 52.4            |       |
| 101 Benzo[a]anthracene         | 228 | 11.845    | 11.845        | 0.000         | 99 | 386400   | 50.0          | 49.7            |       |
| * 102 Chrysene-d12             | 240 | 11.857    | 11.857        | 0.000         | 99 | 260654   | 40.0          | 40.0            |       |
| 104 Bis(2-ethylhexyl) phthalat | 149 | 11.863    | 11.863        | 0.000         | 90 | 298232   | 50.0          | 53.0            |       |
| 103 Chrysene                   | 228 | 11.892    | 11.892        | 0.000         | 99 | 341565   | 50.0          | 48.7            |       |
| 105 Di-n-octyl phthalate       | 149 | 12.733    | 12.733        | 0.000         | 97 | 417143   | 50.0          | 57.6            |       |
| 106 Benzo[b]fluoranthene       | 252 | 13.286    | 13.286        | 0.000         | 99 | 275337   | 50.0          | 50.0            |       |
| 107 Benzo[k]fluoranthene       | 252 | 13.327    | 13.327        | 0.000         | 99 | 280813   | 50.0          | 50.9            |       |
| 108 Benzo[a]pyrene             | 252 | 13.739    | 13.739        | 0.000         | 97 | 248201   | 50.0          | 51.2            |       |
| * 109 Perylene-d12             | 264 | 13.821    | 13.821        | 0.000         | 99 | 171373   | 40.0          | 40.0            |       |
| 110 Indeno[1,2,3-cd]pyrene     | 276 | 15.415    | 15.415        | 0.000         | 99 | 198198   | 50.0          | 49.8            |       |
| 111 Dibenz(a,h)anthracene      | 278 | 15.451    | 15.451        | 0.000         | 97 | 192626   | 50.0          | 49.7            |       |
| 112 Benzo[g,h,i]perylene       | 276 | 15.868    | 15.868        | 0.000         | 98 | 189095   | 50.0          | 44.4            |       |

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

**Reagents:**

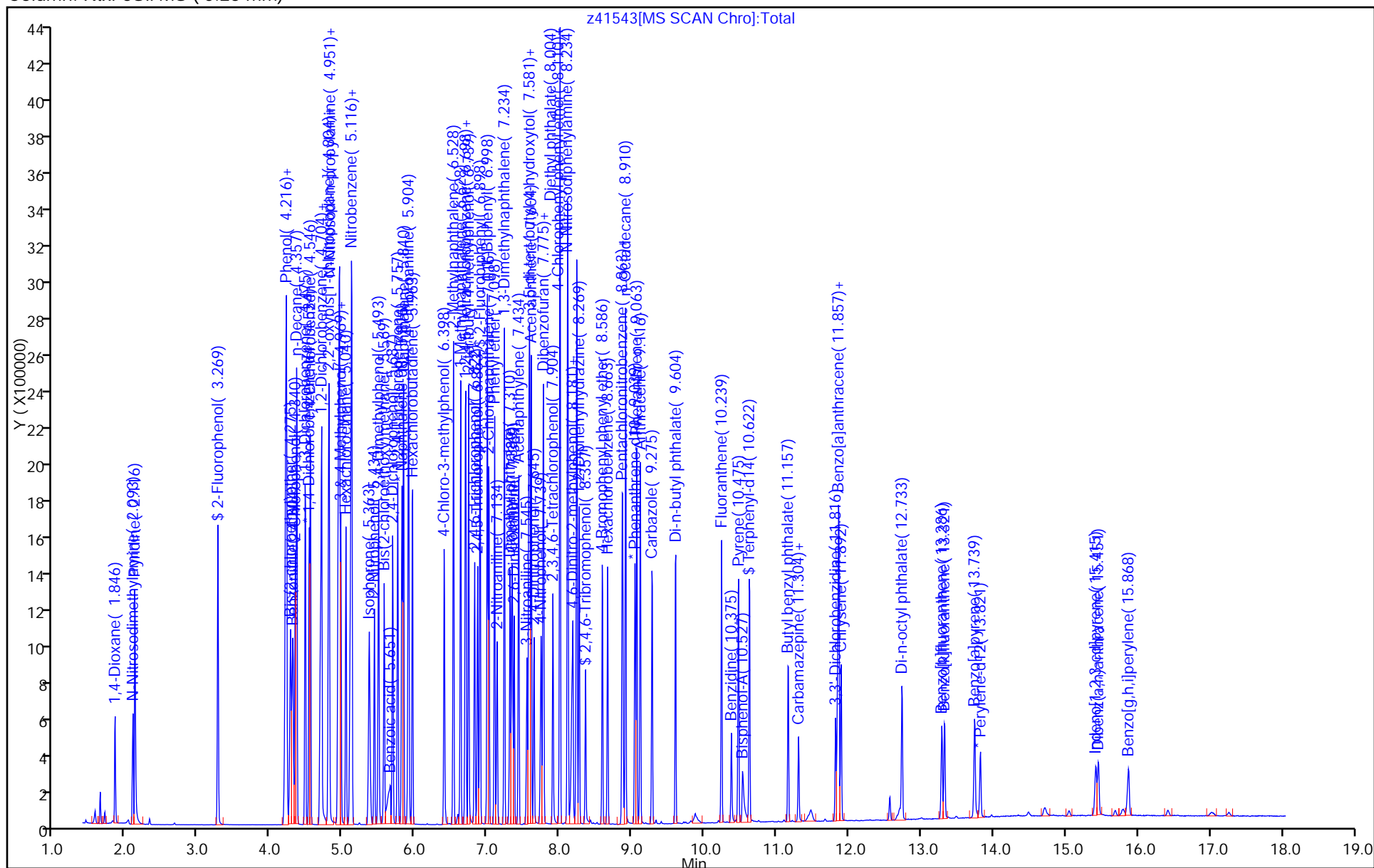
SV\_IC\_BNA\_L6\_00018

Amount Added: 1.00

Units: mL

|                 |  |                |               |
|-----------------|--|----------------|---------------|
| Data File:      | \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160310-38294.b\\z41543.D |                |               |
| Injection Date: | 10-Mar-2016 19:34:30   | Instrument ID: | CBNAMS11      |
| Lims ID:        | CCVIS  |                |               |
| Client ID:      |  |                |               |
| Injection Vol:  | 1.0 ul   | Dil. Factor:   | 1.0000        |
| Method:         | 8270_11R_9   | Limit Group:   | SV 8270D ICAL |
| Column:         | Rtxi-5Sil MS ( 0.25 mm)  |                |               |

ALS Bottle#: 2



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-109716-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: CCV 460-355365/3 Calibration Date: 03/10/2016 19:58  
Instrument ID: CBNAMS11 Calib Start Date: 03/09/2016 12:16  
GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 03/09/2016 14:41  
Lab File ID: z41544.D Conc. Units: ug/L

| ANALYTE      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D   | MAX<br>%D |
|--------------|---------------|---------|--------|---------|----------------|-----------------|------|-----------|
| Benzaldehyde | Ave           | 1.187   | 1.289  | 0.0100  | 54300          | 50000           | 8.6  | 20.0      |
| Caprolactam  | Ave           | 0.0844  | 0.0975 | 0.0100  | 57800          | 50000           | 15.6 | 20.0      |
| Atrazine     | Ave           | 0.2102  | 0.2221 | 0.0100  | 52800          | 50000           | 5.7  | 20.0      |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160310-38294.b\z41544.D  
 Lims ID: CCV  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 10-Mar-2016 19:58:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038294-003  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Sublist: chrom-8270\_11R\_9\*sub13  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160310-38294.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 11-Mar-2016 13:22:06 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK027

First Level Reviewer: szczecha

Date: 11-Mar-2016 13:22:06

| Compound                    | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 5 Benzaldehyde              | 77  | 4.098        | 4.098            | 0.000            | 96  | 424108   | 50.0             | 54.3               |       |
| * 14 1,4-Dichlorobenzene-d4 | 152 | 4.528        | 4.528            | 0.000            | 98  | 263296   | 40.0             | 40.0               |       |
| * 38 Naphthalene-d8         | 136 | 5.810        | 5.810            | 0.000            | 100 | 948540   | 40.0             | 40.0               |       |
| 42 Caprolactam              | 113 | 6.240        | 6.240            | 0.000            | 90  | 115652   | 50.0             | 57.8               |       |
| * 65 Acenaphthene-d10       | 164 | 7.563        | 7.563            | 0.000            | 94  | 484706   | 40.0             | 40.0               |       |
| 83 Atrazine                 | 200 | 8.757        | 8.757            | 0.000            | 93  | 206626   | 50.0             | 52.8               |       |
| * 87 Phenanthrene-d10       | 188 | 9.033        | 9.033            | 0.000            | 99  | 744349   | 40.0             | 40.0               |       |
| * 102 Chrysene-d12          | 240 | 11.851       | 11.851           | 0.000            | 100 | 403416   | 40.0             | 40.0               |       |
| * 109 Perylene-d12          | 264 | 13.816       | 13.816           | 0.000            | 99  | 245819   | 40.0             | 40.0               |       |

**Reagents:**

SV\_IC-S\_L6\_00018

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160310-38294.b\z41544.D

Injection Date: 10-Mar-2016 19:58:30

Instrument ID: CBNAMS11

Operator ID:

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

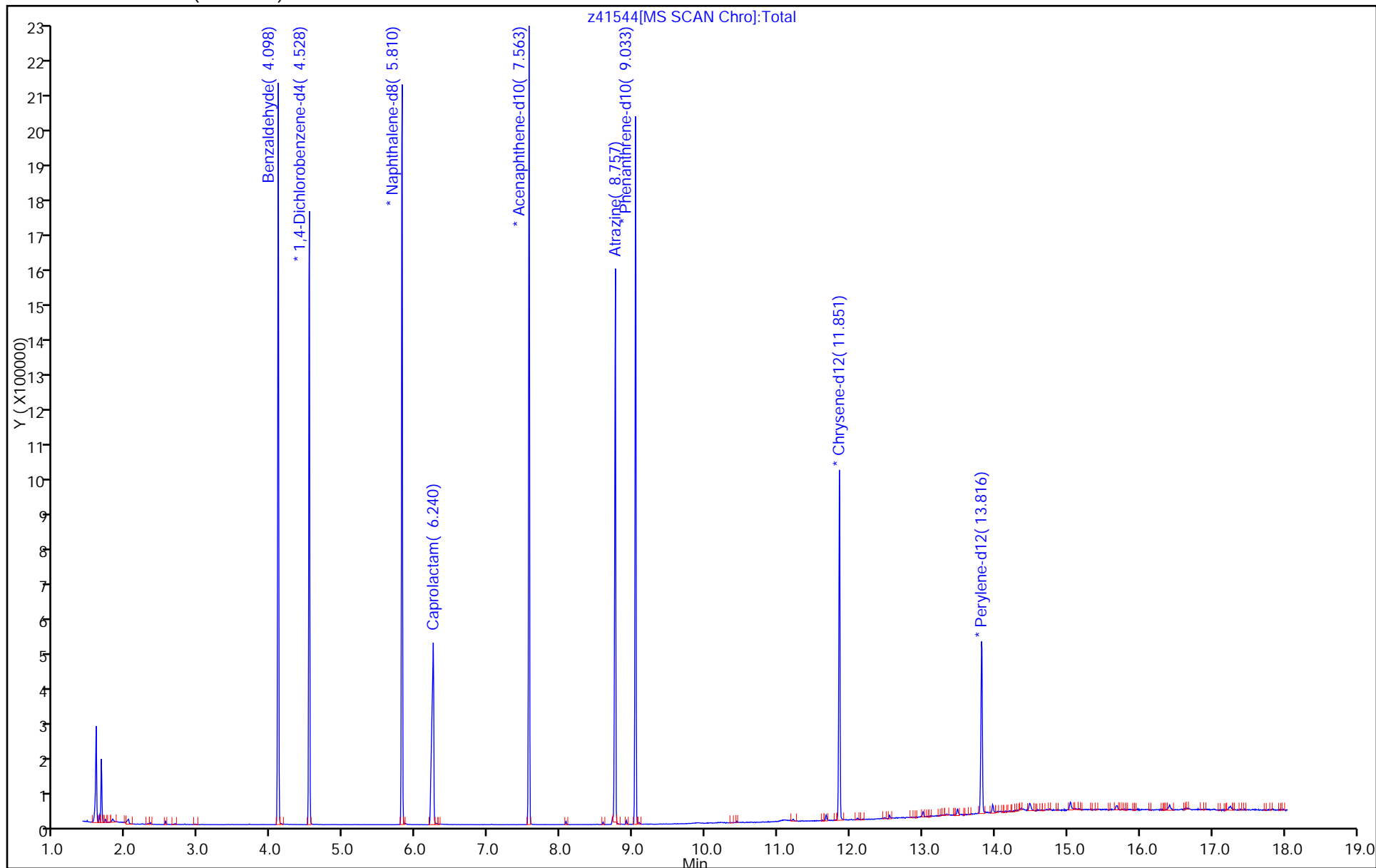
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8270\_11R\_9

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.: 460-109716-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 460-355488/2 Calibration Date: 03/11/2016 08:08

Instrument ID: CBNAMS11 Calib Start Date: 03/09/2016 08:34

GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 03/09/2016 11:52

Lab File ID: z41574.D Conc. Units: ug/L

| ANALYTE                      | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|------------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| 1,4-Dioxane                  | Ave        | 0.6278  | 0.5613 | 0.0100  | 44700       | 50000        | -10.6 | 20.0   |
| N-Nitrosodimethylamine       | Ave        | 0.8667  | 0.8119 |         | 46800       | 50000        | -6.3  | 20.0   |
| Pyridine                     | Ave        | 1.510   | 1.428  |         | 47300       | 50000        | -5.4  | 20.0   |
| Aniline                      | Ave        | 1.996   | 2.109  |         | 52800       | 50000        | 5.6   | 20.0   |
| Phenol                       | Ave        | 1.815   | 1.882  | 0.8000  | 51800       | 50000        | 3.7   | 20.0   |
| Bis(2-chloroethyl)ether      | Ave        | 1.387   | 1.360  | 0.7000  | 49000       | 50000        | -1.9  | 20.0   |
| 2-Chlorophenol               | Ave        | 1.354   | 1.374  | 0.8000  | 50700       | 50000        | 1.5   | 20.0   |
| n-Decane                     | Ave        | 1.721   | 1.453  | 0.0100  | 42200       | 50000        | -15.6 | 20.0   |
| 1,3-Dichlorobenzene          | Ave        | 1.559   | 1.564  |         | 50100       | 50000        | 0.3   | 20.0   |
| 1,4-Dichlorobenzene          | Ave        | 1.584   | 1.566  |         | 49400       | 50000        | -1.1  | 20.0   |
| Benzyl alcohol               | Qua        |         | 0.8609 | 0.0100  | 59000       | 50000        | 18.1  | 20.0   |
| 1,2-Dichlorobenzene          | Ave        | 1.461   | 1.489  |         | 51000       | 50000        | 1.9   | 20.0   |
| 2,2'-oxybis[1-chloropropane] | Ave        | 1.909   | 1.651  | 0.0100  | 43300       | 50000        | -13.5 | 20.0   |
| 2-Methylphenol               | Ave        | 1.200   | 1.230  | 0.7000  | 51300       | 50000        | 2.5   | 20.0   |
| Acetophenone                 | Ave        | 1.704   | 1.807  | 0.0100  | 53000       | 50000        | 6.0   | 20.0   |
| N-Nitrosodi-n-propylamine    | Ave        | 0.8928  | 0.9066 | 0.5000  | 50800       | 50000        | 1.5   | 20.0   |
| 3 & 4 Methylphenol           | Ave        | 1.214   | 1.260  |         | 51900       | 50000        | 3.8   | 20.0   |
| 4-Methylphenol               | Ave        | 1.214   | 1.260  | 0.6000  | 51900       | 50000        | 3.8   | 20.0   |
| Hexachloroethane             | Ave        | 0.5920  | 0.5970 | 0.3000  | 50400       | 50000        | 0.8   | 20.0   |
| n,n'-Dimethylaniline         | Ave        | 1.744   | 2.054  | 0.0100  | 58900       | 50000        | 17.8  | 20.0   |
| Nitrobenzene                 | Ave        | 0.5577  | 0.5702 | 0.2000  | 51100       | 50000        | 2.2   | 20.0   |
| Isophorone                   | Ave        | 0.6538  | 0.6263 | 0.4000  | 47900       | 50000        | 11.5  | 20.0   |
| 2-Nitrophenol                | Ave        | 0.1972  | 0.1937 | 0.1000  | 49100       | 50000        | -1.8  | 20.0   |
| 2,4-Dimethylphenol           | Ave        | 0.3085  | 0.3099 | 0.2000  | 50200       | 50000        | 0.4   | 20.0   |
| Bis(2-chloroethoxy)methane   | Ave        | 0.4080  | 0.3973 | 0.3000  | 48700       | 50000        | -2.6  | 20.0   |
| Benzoic acid                 | Qua        |         | 0.1283 |         | 45600       | 50000        | -8.9  | 20.0   |
| 2,4-Dichlorophenol           | Ave        | 0.2884  | 0.2907 | 0.2000  | 50400       | 50000        | 0.8   | 20.0   |
| 1,2,4-Trichlorobenzene       | Ave        | 0.3452  | 0.3389 |         | 49100       | 50000        | -1.8  | 20.0   |
| Naphthalene                  | Ave        | 1.053   | 1.053  | 0.7000  | 50000       | 50000        | -0.0  | 20.0   |
| 4-Chloroaniline              | Ave        | 0.3933  | 0.4038 | 0.0100  | 51300       | 50000        | 2.7   | 20.0   |
| Hexachlorobutadiene          | Ave        | 0.2044  | 0.2064 | 0.0100  | 50500       | 50000        | 0.9   | 20.0   |
| 4-Chloro-3-methylphenol      | Ave        | 0.2823  | 0.2845 |         | 50400       | 50000        | 0.7   | 20.0   |
| 2-Methylnaphthalene          | Ave        | 0.6804  | 0.6810 | 0.4000  | 50000       | 50000        | 0.0   | 20.0   |
| 1-Methylnaphthalene          | Ave        | 0.5835  | 0.5831 | 0.0100  | 50000       | 50000        | -0.0  | 20.0   |
| Hexachlorocyclopentadiene    | QuaF       |         | 0.4620 | 0.0500  | 69700       | 50000        | 39.4* | 20.0   |
| 1,2,4,5-Tetrachlorobenzene   | Ave        | 0.6507  | 0.6633 | 0.0100  | 51000       | 50000        | 1.9   | 20.0   |
| 2-tertbutyl-4-methylphenol   | Ave        | 0.4263  | 0.4651 | 0.0100  | 54500       | 50000        | 9.1   | 20.0   |
| 2,4,6-Trichlorophenol        | Ave        | 0.3876  | 0.4103 | 0.2000  | 52900       | 50000        | 5.8   | 20.0   |
| 2,4,5-Trichlorophenol        | Ave        | 0.4033  | 0.4219 | 0.2000  | 52300       | 50000        | 4.6   | 20.0   |
| 1,1'-Biphenyl                | Ave        | 1.622   | 1.662  | 0.0100  | 51200       | 50000        | 2.5   | 20.0   |
| 2-Chloronaphthalene          | Ave        | 1.215   | 1.224  | 0.8000  | 50400       | 50000        | 0.7   | 20.0   |

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-109716-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 460-355488/2 Calibration Date: 03/11/2016 08:08

Instrument ID: CBNAMS11 Calib Start Date: 03/09/2016 08:34

GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 03/09/2016 11:52

Lab File ID: z41574.D Conc. Units: ug/L

| ANALYTE                        | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D     | MAX %D |
|--------------------------------|------------|---------|--------|---------|-------------|--------------|--------|--------|
| Phenyl ether                   | Ave        | 0.8474  | 0.8624 | 0.0100  | 50900       | 50000        | 1.8    | 20.0   |
| 2-Nitroaniline                 | Ave        | 0.3766  | 0.3605 | 0.0100  | 47900       | 50000        | -4.3   | 20.0   |
| 1,3-Dimethylnaphthalene        | Ave        | 1.003   | 1.040  | 0.0100  | 51800       | 50000        | 3.7    | 20.0   |
| Dimethyl phthalate             | Ave        | 1.209   | 1.149  | 0.0100  | 47500       | 50000        | -5.0   | 20.0   |
| Coumarin                       | Ave        | 0.1757  | 0.1694 | 0.0100  | 48200       | 50000        | -3.5   | 20.0   |
| 2,6-Dinitrotoluene             | Ave        | 0.2795  | 0.2758 | 0.2000  | 49300       | 50000        | -1.3   | 20.0   |
| Acenaphthylene                 | Ave        | 1.774   | 1.796  | 0.9000  | 50600       | 50000        | 1.3    | 20.0   |
| 3-Nitroaniline                 | Ave        | 0.2853  | 0.2732 | 0.0100  | 47900       | 50000        | -4.2   | 20.0   |
| 3,5-di-tert-butyl-4-hydroxytol | Ave        | 1.114   | 1.302  | 0.0100  | 58400       | 50000        | 16.9   | 20.0   |
| Acenaphthene                   | Ave        | 1.131   | 1.115  | 0.9000  | 49300       | 50000        | -1.4   | 20.0   |
| 2,4-Dinitrophenol              | Qua        |         | 0.1311 | 0.0100  | 78100       | 100000       | -21.9* | 20.0   |
| 4-Nitrophenol                  | Ave        | 0.1951  | 0.1973 | 0.0100  | 101000      | 100000       | 1.1    | 20.0   |
| 2,4-Dinitrotoluene             | Ave        | 0.3482  | 0.3285 | 0.2000  | 47200       | 50000        | -5.7   | 20.0   |
| Dibenzofuran                   | Ave        | 1.604   | 1.573  | 0.8000  | 49000       | 50000        | -1.9   | 20.0   |
| 2,3,4,6-Tetrachlorophenol      | Ave        | 0.2930  | 0.2973 | 0.0100  | 50700       | 50000        | 1.4    | 20.0   |
| Diethyl phthalate              | Ave        | 1.126   | 1.078  | 0.0100  | 47900       | 50000        | -4.2   | 20.0   |
| 4-Chlorophenyl phenyl ether    | Ave        | 0.6145  | 0.6266 | 0.4000  | 51000       | 50000        | 2.0    | 20.0   |
| Fluorene                       | Ave        | 1.260   | 1.255  | 0.9000  | 49800       | 50000        | -0.4   | 20.0   |
| 4-Nitroaniline                 | Ave        | 0.2353  | 0.2235 | 0.0100  | 47500       | 50000        | -5.0   | 20.0   |
| 4,6-Dinitro-2-methylphenol     | Lin2       |         | 0.1235 | 0.0100  | 86400       | 100000       | -13.6  | 20.0   |
| N-Nitrosodiphenylamine         | Ave        | 0.6120  | 0.6447 | 0.0100  | 105000      | 100000       | 5.3    | 20.0   |
| 1,2-Diphenylhydrazine          | Ave        | 0.9090  | 0.9201 | 0.0100  | 50600       | 50000        | 1.2    | 20.0   |
| 4-Bromophenyl phenyl ether     | Ave        | 0.2492  | 0.2622 | 0.1000  | 52600       | 50000        | 5.2    | 20.0   |
| Hexachlorobenzene              | Ave        | 0.2505  | 0.2616 | 0.1000  | 52200       | 50000        | 4.4    | 20.0   |
| Pentachlorophenol              | Qua        |         | 0.1338 | 0.0500  | 103000      | 100000       | 2.8    | 20.0   |
| Pentachloronitrobenzene        | Ave        | 0.0971  | 0.1053 | 0.0100  | 54200       | 50000        | 8.3    | 20.0   |
| n-Octadecane                   | Ave        | 0.7338  | 0.7319 | 0.0100  | 49900       | 50000        | -0.3   | 20.0   |
| Phenanthrene                   | Ave        | 1.160   | 1.151  | 0.7000  | 49600       | 50000        | -0.8   | 20.0   |
| Anthracene                     | Ave        | 1.143   | 1.157  | 0.7000  | 50600       | 50000        | 1.2    | 20.0   |
| Carbazole                      | Ave        | 0.8872  | 0.8558 | 0.0100  | 48200       | 50000        | -3.5   | 20.0   |
| Di-n-butyl phthalate           | Ave        | 1.096   | 1.031  | 0.0100  | 47000       | 50000        | -5.9   | 20.0   |
| Fluoranthene                   | Ave        | 0.9574  | 0.9065 | 0.6000  | 47300       | 50000        | -5.3   | 20.0   |
| Benzidine                      | Ave        | 0.3206  | 0.3165 |         | 49300       | 50000        | -1.3   | 20.0   |
| Pyrene                         | Ave        | 1.796   | 1.761  | 0.6000  | 49000       | 50000        | -2.0   | 20.0   |
| Bisphenol-A                    | Ave        | 0.3100  | 0.5262 |         | 84900       | 50000        | 69.8*  | 20.0   |
| Butyl benzyl phthalate         | Ave        | 0.6443  | 0.6311 | 0.0100  | 49000       | 50000        | -2.1   | 20.0   |
| 2,3,7,8-TCDD                   | Ave        | 0.1645  | 0.1731 | 0.0100  | 526         | 500          | 5.2    | 20.0   |
| Carbamazepine                  | Ave        | 0.4163  | 0.4564 | 0.0100  | 54800       | 50000        | 9.6    | 20.0   |
| 3,3'-Dichlorobenzidine         | Ave        | 0.3762  | 0.4052 | 0.0100  | 53900       | 50000        | 7.7    | 20.0   |
| Benzo[a]anthracene             | Ave        | 1.194   | 1.183  | 0.8000  | 49600       | 50000        | -0.9   | 20.0   |

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 460-355488/2 Calibration Date: 03/11/2016 08:08  
 Instrument ID: CBNAMS11 Calib Start Date: 03/09/2016 08:34  
 GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 03/09/2016 11:52  
 Lab File ID: z41574.D Conc. Units: ug/L

| ANALYTE                     | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D   | MAX<br>%D |
|-----------------------------|---------------|---------|--------|---------|----------------|-----------------|------|-----------|
| Bis(2-ethylhexyl) phthalate | Ave           | 0.8636  | 0.8620 | 0.0100  | 49900          | 50000           | -0.2 | 20.0      |
| Chrysene                    | Ave           | 1.076   | 1.055  | 0.7000  | 49000          | 50000           | -1.9 | 20.0      |
| Di-n-octyl phthalate        | Ave           | 1.691   | 1.694  | 0.0100  | 50100          | 50000           | 0.2  | 20.0      |
| Benzo[b]fluoranthene        | Ave           | 1.286   | 1.252  | 0.7000  | 48700          | 50000           | -2.7 | 20.0      |
| Benzo[k]fluoranthene        | Ave           | 1.287   | 1.242  | 0.7000  | 48300          | 50000           | -3.5 | 20.0      |
| Benzo[a]pyrene              | Ave           | 1.131   | 1.140  | 0.7000  | 50400          | 50000           | 0.8  | 20.0      |
| Indeno[1,2,3-cd]pyrene      | Ave           | 0.9284  | 0.9567 | 0.5000  | 51500          | 50000           | 3.0  | 20.0      |
| Dibenz(a,h)anthracene       | Ave           | 0.9052  | 0.9188 | 0.4000  | 50800          | 50000           | 1.5  | 20.0      |
| Benzo[g,h,i]perylene        | Ave           | 0.9948  | 0.9023 | 0.5000  | 45300          | 50000           | -9.3 | 20.0      |
| 2-Fluorophenol (Surr)       | Ave           | 1.421   | 1.427  | 0.0100  | 50200          | 50000           | 0.5  | 20.0      |
| Phenol-d5 (Surr)            | Ave           | 1.702   | 1.789  | 0.0100  | 52600          | 50000           | 5.1  | 20.0      |
| Nitrobenzene-d5 (Surr)      | Ave           | 0.4251  | 0.4415 | 0.0100  | 51900          | 50000           | 3.9  | 20.0      |
| 2-Fluorobiphenyl            | Ave           | 1.503   | 1.602  | 0.0100  | 53300          | 50000           | 6.5  | 20.0      |
| 2,4,6-Tribromophenol (Surr) | Ave           | 0.1653  | 0.1785 | 0.0100  | 54000          | 50000           | 8.0  | 20.0      |
| Terphenyl-d14 (Surr)        | Ave           | 1.272   | 1.300  | 0.0100  | 51100          | 50000           | 2.2  | 20.0      |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160311-38326.b\z41574.D  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 11-Mar-2016 08:08:30 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038326-002  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Sublist: chrom-8270\_11R\_9\*sub18  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160311-38326.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 11-Mar-2016 13:44:18 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK027

First Level Reviewer: szczech

Date: 11-Mar-2016 13:44:18

| Compound                      | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-------------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| 1 1,4-Dioxane                 | 88  | 1.816        | 1.816            | 0.000            | 98 | 175189   | 50.0             | 44.7               |       |
| 2 N-Nitrosodimethylamine      | 74  | 2.057        | 2.057            | 0.000            | 88 | 253432   | 50.0             | 46.8               |       |
| 3 Pyridine                    | 79  | 2.081        | 2.081            | 0.000            | 87 | 445597   | 50.0             | 47.3               |       |
| \$ 4 2-Fluorophenol           | 112 | 3.228        | 3.228            | 0.000            | 94 | 445441   | 50.0             | 50.2               |       |
| \$ 6 Phenol-d5                | 99  | 4.157        | 4.157            | 0.000            | 91 | 558367   | 50.0             | 52.6               |       |
| 7 Phenol                      | 94  | 4.169        | 4.169            | 0.000            | 95 | 587326   | 50.0             | 51.8               |       |
| 8 Aniline                     | 93  | 4.169        | 4.169            | 0.000            | 98 | 658176   | 50.0             | 52.8               |       |
| 9 Bis(2-chloroethyl)ether     | 93  | 4.222        | 4.222            | 0.000            | 96 | 424499   | 50.0             | 49.0               |       |
| 10 Benzonitrile               | 103 | 4.257        | 4.257            | 0.000            | 0  | 784950   | NC               | NC                 |       |
| 11 2-Chlorophenol             | 128 | 4.292        | 4.292            | 0.000            | 94 | 428969   | 50.0             | 50.7               |       |
| 12 n-Decane                   | 43  | 4.310        | 4.310            | 0.000            | 87 | 453641   | 50.0             | 42.2               |       |
| 13 1,3-Dichlorobenzene        | 146 | 4.428        | 4.428            | 0.000            | 94 | 488116   | 50.0             | 50.1               |       |
| * 14 1,4-Dichlorobenzene-d4   | 152 | 4.481        | 4.481            | 0.000            | 97 | 249713   | 40.0             | 40.0               |       |
| 15 1,4-Dichlorobenzene        | 146 | 4.498        | 4.498            | 0.000            | 93 | 488955   | 50.0             | 49.4               |       |
| 16 Benzyl alcohol             | 108 | 4.634        | 4.634            | 0.000            | 91 | 268720   | 50.0             | 59.0               |       |
| 17 1,2-Dichlorobenzene        | 146 | 4.651        | 4.651            | 0.000            | 95 | 464880   | 50.0             | 51.0               |       |
| 19 2,2'-oxybis[1-chloropropan | 45  | 4.751        | 4.751            | 0.000            | 94 | 515434   | 50.0             | 43.3               |       |
| 18 2-Methylphenol             | 108 | 4.757        | 4.757            | 0.000            | 88 | 383959   | 50.0             | 51.3               |       |
| 21 N-Nitrosodi-n-propylamine  | 70  | 4.898        | 4.898            | 0.000            | 88 | 283001   | 50.0             | 50.8               |       |
| 22 Acetophenone               | 105 | 4.898        | 4.898            | 0.000            | 95 | 564134   | 50.0             | 53.0               |       |
| 20 N-Methylaniline            | 106 | 4.881        | 4.881            | 0.000            | 0  | 631046   | NC               | NC                 |       |
| 23 3 & 4 Methylphenol         | 108 | 4.922        | 4.922            | 0.000            | 95 | 393170   | 50.0             | 51.9               |       |
| 24 4-Methylphenol             | 108 | 4.922        | 4.922            | 0.000            | 93 | 393170   | 50.0             | 51.9               |       |
| 25 Hexachloroethane           | 117 | 4.987        | 4.987            | 0.000            | 94 | 186335   | 50.0             | 50.4               |       |
| \$ 26 Nitrobenzene-d5         | 82  | 5.051        | 5.051            | 0.000            | 90 | 483454   | 50.0             | 51.9               |       |
| 28 n,n'-Dimethylaniline       | 120 | 5.063        | 5.063            | 0.000            | 92 | 641110   | 50.0             | 58.9               |       |
| 27 Nitrobenzene               | 77  | 5.069        | 5.069            | 0.000            | 93 | 624351   | 50.0             | 51.1               |       |
| 31 Isophorone                 | 82  | 5.310        | 5.310            | 0.000            | 99 | 685790   | 50.0             | 47.9               |       |
| 32 2-Nitrophenol              | 139 | 5.381        | 5.381            | 0.000            | 88 | 212070   | 50.0             | 49.1               |       |
| 33 2,4-Dimethylphenol         | 122 | 5.439        | 5.439            | 0.000            | 89 | 339275   | 50.0             | 50.2               |       |

| 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  | 5.516     | 5.516         | 0.000         | 98  | 435067   | 50.0          | 48.7            |       |
| 35 Benzoic acid               | 122 | 5.598     | 5.598         | 0.000         | 87  | 140448   | 50.0          | 45.6            |       |
| 36 2,4-Dichlorophenol         | 162 | 5.634     | 5.634         | 0.000         | 95  | 318333   | 50.0          | 50.4            |       |
| 37 1,2,4-Trichlorobenzene     | 180 | 5.704     | 5.704         | 0.000         | 94  | 371022   | 50.0          | 49.1            |       |
| * 38 Naphthalene-d8           | 136 | 5.763     | 5.763         | 0.000         | 100 | 875962   | 40.0          | 40.0            |       |
| 39 Naphthalene                | 128 | 5.781     | 5.781         | 0.000         | 99  | 1152815  | 50.0          | 50.0            |       |
| 40 4-Chloroaniline            | 127 | 5.851     | 5.851         | 0.000         | 96  | 442165   | 50.0          | 51.3            |       |
| 41 Hexachlorobutadiene        | 225 | 5.904     | 5.904         | 0.000         | 95  | 225974   | 50.0          | 50.5            |       |
| 43 4-Chloro-3-methylphenol    | 107 | 6.345     | 6.345         | 0.000         | 96  | 311454   | 50.0          | 50.4            |       |
| 44 2-Methylnaphthalene        | 142 | 6.469     | 6.469         | 0.000         | 85  | 745603   | 50.0          | 50.0            |       |
| 45 1-Methylnaphthalene        | 142 | 6.569     | 6.569         | 0.000         | 93  | 638504   | 50.0          | 50.0            |       |
| 46 Hexachlorocyclopentadiene  | 237 | 6.633     | 6.633         | 0.000         | 96  | 232730   | 50.0          | 69.7            |       |
| 47 1,2,4,5-Tetrachlorobenzene | 216 | 6.639     | 6.639         | 0.000         | 97  | 334104   | 50.0          | 51.0            |       |
| 48 2-tertbutyl-4-methylphenol | 149 | 6.681     | 6.681         | 0.000         | 90  | 509211   | 50.0          | 54.5            |       |
| 49 2,4,6-Trichlorophenol      | 196 | 6.763     | 6.763         | 0.000         | 89  | 206654   | 50.0          | 52.9            |       |
| 50 2,4,5-Trichlorophenol      | 196 | 6.804     | 6.804         | 0.000         | 96  | 212530   | 50.0          | 52.3            |       |
| \$ 51 2-Fluorobiphenyl        | 172 | 6.839     | 6.839         | 0.000         | 98  | 806720   | 50.0          | 53.3            |       |
| 52 1,1'-Biphenyl              | 154 | 6.939     | 6.939         | 0.000         | 95  | 837259   | 50.0          | 51.2            |       |
| 53 2-Chloronaphthalene        | 162 | 6.957     | 6.957         | 0.000         | 97  | 616737   | 50.0          | 50.4            |       |
| 54 Phenyl ether               | 170 | 7.033     | 7.033         | 0.000         | 86  | 434433   | 50.0          | 50.9            |       |
| 55 2-Nitroaniline             | 65  | 7.069     | 7.069         | 0.000         | 97  | 181580   | 50.0          | 47.9            |       |
| 57 1,3-Dimethylnaphthalene    | 156 | 7.175     | 7.175         | 0.000         | 91  | 523782   | 50.0          | 51.8            |       |
| 58 Dimethyl phthalate         | 163 | 7.251     | 7.251         | 0.000         | 99  | 578768   | 50.0          | 47.5            |       |
| 59 Coumarin                   | 146 | 7.275     | 7.275         | 0.000         | 77  | 185524   | 50.0          | 48.2            |       |
| 60 2,6-Dinitrotoluene         | 165 | 7.310     | 7.310         | 0.000         | 95  | 138919   | 50.0          | 49.3            |       |
| 63 Acenaphthylene             | 152 | 7.369     | 7.369         | 0.000         | 98  | 904829   | 50.0          | 50.6            |       |
| 64 3-Nitroaniline             | 138 | 7.481     | 7.481         | 0.000         | 92  | 137640   | 50.0          | 47.9            |       |
| * 65 Acenaphthene-d10         | 164 | 7.510     | 7.510         | 0.000         | 93  | 402982   | 40.0          | 40.0            |       |
| 66 3,5-di-tert-butyl-4-hydrox | 205 | 7.522     | 7.522         | 0.000         | 98  | 655835   | 50.0          | 58.4            |       |
| 67 Acenaphthene               | 154 | 7.539     | 7.539         | 0.000         | 94  | 561632   | 50.0          | 49.3            |       |
| 68 2,4-Dinitrophenol          | 184 | 7.580     | 7.580         | 0.000         | 96  | 132038   | 100.0         | 78.1            |       |
| 69 4-Nitrophenol              | 65  | 7.680     | 7.680         | 0.000         | 91  | 198781   | 100.0         | 101.1           |       |
| 70 2,4-Dinitrotoluene         | 165 | 7.704     | 7.704         | 0.000         | 94  | 165477   | 50.0          | 47.2            |       |
| 71 Dibenzofuran               | 168 | 7.710     | 7.710         | 0.000         | 95  | 792155   | 50.0          | 49.0            |       |
| 72 2,3,4,6-Tetrachlorophenol  | 232 | 7.839     | 7.839         | 0.000         | 93  | 149731   | 50.0          | 50.7            |       |
| 73 Diethyl phthalate          | 149 | 7.939     | 7.939         | 0.000         | 98  | 542971   | 50.0          | 47.9            |       |
| 75 4-Chlorophenyl phenyl ethe | 204 | 8.039     | 8.039         | 0.000         | 92  | 315622   | 50.0          | 51.0            |       |
| 74 Fluorene                   | 166 | 8.051     | 8.051         | 0.000         | 96  | 631964   | 50.0          | 49.8            |       |
| 76 4-Nitroaniline             | 138 | 8.098     | 8.098         | 0.000         | 89  | 112589   | 50.0          | 47.5            |       |
| 77 4,6-Dinitro-2-methylphenol | 198 | 8.116     | 8.116         | 0.000         | 86  | 158901   | 100.0         | 86.4            |       |
| 78 N-Nitrosodiphenylamine     | 169 | 8.169     | 8.169         | 0.000         | 67  | 829301   | 100.0         | 105.3           |       |
| 79 1,2-Diphenylhydrazine      | 77  | 8.204     | 8.204         | 0.000         | 97  | 591830   | 50.0          | 50.6            |       |
| \$ 80 2,4,6-Tribromophenol    | 330 | 8.292     | 8.292         | 0.000         | 94  | 89893    | 50.0          | 54.0            |       |
| 81 4-Bromophenyl phenyl ether | 248 | 8.522     | 8.522         | 0.000         | 89  | 168644   | 50.0          | 52.6            |       |
| 82 Hexachlorobenzene          | 284 | 8.598     | 8.598         | 0.000         | 97  | 168237   | 50.0          | 52.2            |       |
| 84 Pentachlorophenol          | 266 | 8.798     | 8.798         | 0.000         | 93  | 172063   | 100.0         | 102.8           |       |
| 85 Pentachloronitrobenzene    | 237 | 8.804     | 8.804         | 0.000         | 88  | 67698    | 50.0          | 54.2            |       |
| 86 n-Octadecane               | 57  | 8.839     | 8.839         | 0.000         | 91  | 470740   | 50.0          | 49.9            |       |
| * 87 Phenanthrene-d10         | 188 | 8.969     | 8.969         | 0.000         | 99  | 514574   | 40.0          | 40.0            |       |
| 88 Phenanthrene               | 178 | 8.992     | 8.992         | 0.000         | 97  | 740095   | 50.0          | 49.6            |       |
| 89 Anthracene                 | 178 | 9.045     | 9.045         | 0.000         | 99  | 744119   | 50.0          | 50.6            |       |
| 90 Carbazole                  | 167 | 9.204     | 9.204         | 0.000         | 96  | 550484   | 50.0          | 48.2            |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|--------------------------------|-----|-----------|---------------|---------------|-----|----------|---------------|-----------------|-------|
| 91 Di-n-butyl phthalate        | 149 | 9.527     | 9.527         | 0.000         | 100 | 663226   | 50.0          | 47.0            |       |
| 92 Fluoranthene                | 202 | 10.163    | 10.163        | 0.000         | 98  | 583061   | 50.0          | 47.3            |       |
| 93 Benzidine                   | 184 | 10.298    | 10.298        | 0.000         | 99  | 203549   | 50.0          | 49.3            |       |
| 94 Pyrene                      | 202 | 10.392    | 10.392        | 0.000         | 98  | 568512   | 50.0          | 49.0            |       |
| 95 Bisphenol-A                 | 213 | 10.439    | 10.439        | 0.000         | 99  | 169914   | 50.0          | 84.9            |       |
| \$ 96 Terphenyl-d14            | 244 | 10.545    | 10.545        | 0.000         | 99  | 419622   | 50.0          | 51.1            |       |
| 97 Butyl benzyl phthalate      | 149 | 11.074    | 11.074        | 0.000         | 98  | 203757   | 50.0          | 49.0            |       |
| 98 2,3,7,8-TCDD                | 320 | 11.198    | 11.198        | 0.000         | 86  | 559      | 0.5000        | 0.5261          |       |
| 99 Carbamazepine               | 193 | 11.216    | 11.216        | 0.000         | 92  | 147362   | 50.0          | 54.8            |       |
| 100 3,3'-Dichlorobenzidine     | 252 | 11.721    | 11.721        | 0.000         | 99  | 130843   | 50.0          | 53.9            |       |
| * 102 Chrysene-d12             | 240 | 11.763    | 11.763        | 0.000         | 99  | 258308   | 40.0          | 40.0            |       |
| 101 Benzo[a]anthracene         | 228 | 11.751    | 11.751        | 0.000         | 98  | 381963   | 50.0          | 49.6            |       |
| 104 Bis(2-ethylhexyl) phthalat | 149 | 11.763    | 11.763        | 0.000         | 90  | 278310   | 50.0          | 49.9            |       |
| 103 Chrysene                   | 228 | 11.798    | 11.798        | 0.000         | 99  | 340678   | 50.0          | 49.0            |       |
| 105 Di-n-octyl phthalate       | 149 | 12.627    | 12.627        | 0.000         | 97  | 411447   | 50.0          | 50.1            |       |
| 106 Benzo[b]fluoranthene       | 252 | 13.180    | 13.180        | 0.000         | 98  | 304032   | 50.0          | 48.7            |       |
| 107 Benzo[k]fluoranthene       | 252 | 13.221    | 13.221        | 0.000         | 98  | 301730   | 50.0          | 48.3            |       |
| 108 Benzo[a]pyrene             | 252 | 13.633    | 13.633        | 0.000         | 98  | 276831   | 50.0          | 50.4            |       |
| * 109 Perylene-d12             | 264 | 13.710    | 13.710        | 0.000         | 99  | 194316   | 40.0          | 40.0            |       |
| 110 Indeno[1,2,3-cd]pyrene     | 276 | 15.286    | 15.286        | 0.000         | 99  | 232367   | 50.0          | 51.5            |       |
| 111 Dibenz(a,h)anthracene      | 278 | 15.315    | 15.315        | 0.000         | 96  | 223165   | 50.0          | 50.8            |       |
| 112 Benzo[g,h,i]perylene       | 276 | 15.727    | 15.727        | 0.000         | 98  | 219160   | 50.0          | 45.3            |       |

**QC Flag Legend**

Processing Flags

NC - Not Calibrated

**Reagents:**

SV\_IC\_BNA\_L6\_00018

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160311-38326.b\\z41574.D

Injection Date: 11-Mar-2016 08:08:30

Instrument ID: CBNAMS11

Operator ID:

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

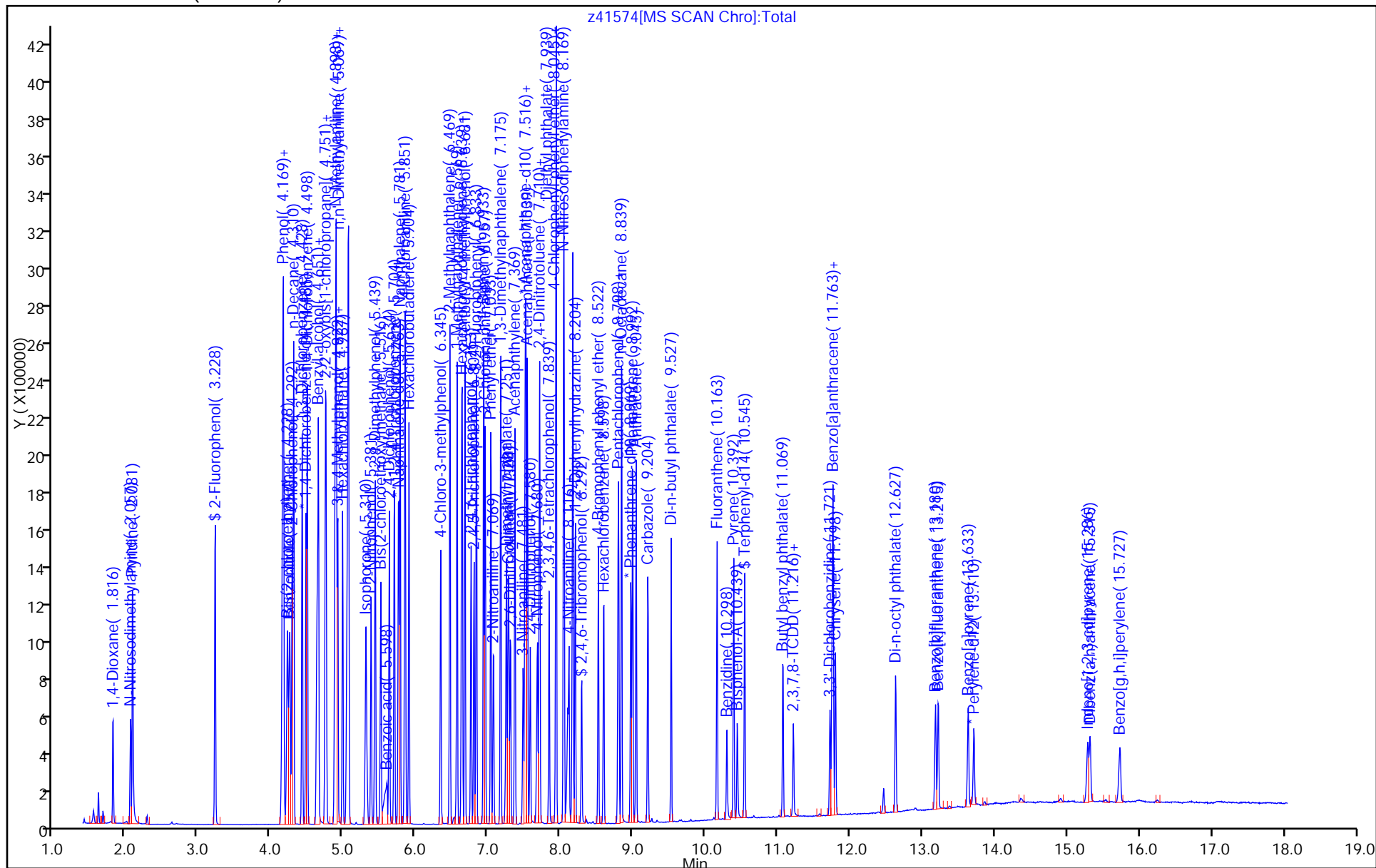
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8270\_11R\_9

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.: 460-109716-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: CCV 460-355488/3 Calibration Date: 03/11/2016 08:46  
Instrument ID: CBNAMS11 Calib Start Date: 03/09/2016 12:16  
GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 03/09/2016 14:41  
Lab File ID: z41575.D Conc. Units: ug/L

| ANALYTE      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D   | MAX<br>%D |
|--------------|---------------|---------|--------|---------|----------------|-----------------|------|-----------|
| Benzaldehyde | Ave           | 1.187   | 1.287  | 0.0100  | 54200          | 50000           | 8.4  | 20.0      |
| Caprolactam  | Ave           | 0.0844  | 0.0905 | 0.0100  | 53600          | 50000           | 7.3  | 20.0      |
| Atrazine     | Ave           | 0.2102  | 0.2053 | 0.0100  | 48800          | 50000           | -2.3 | 20.0      |



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160311-38326.b\z41575.D  
 Lims ID: CCV  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 11-Mar-2016 08:46:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038326-003  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Sublist: chrom-8270\_11R\_9\*sub13  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160311-38326.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 11-Mar-2016 13:44:31 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK027

First Level Reviewer: szczecha

Date: 11-Mar-2016 13:44:31

| Compound                    | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 5 Benzaldehyde              | 77  | 4.045        | 4.045            | 0.000            | 96  | 408822   | 50.0             | 54.2               |       |
| * 14 1,4-Dichlorobenzene-d4 | 152 | 4.469        | 4.469            | 0.000            | 98  | 254219   | 40.0             | 40.0               |       |
| * 38 Naphthalene-d8         | 136 | 5.751        | 5.751            | 0.000            | 100 | 923214   | 40.0             | 40.0               |       |
| 42 Caprolactam              | 113 | 6.175        | 6.175            | 0.000            | 91  | 104437   | 50.0             | 53.6               |       |
| * 65 Acenaphthene-d10       | 164 | 7.498        | 7.498            | 0.000            | 92  | 450460   | 40.0             | 40.0               |       |
| 83 Atrazine                 | 200 | 8.686        | 8.686            | 0.000            | 93  | 157463   | 50.0             | 48.8               |       |
| * 87 Phenanthrene-d10       | 188 | 8.963        | 8.963            | 0.000            | 98  | 613501   | 40.0             | 40.0               |       |
| * 102 Chrysene-d12          | 240 | 11.751       | 11.751           | 0.000            | 99  | 281717   | 40.0             | 40.0               |       |
| * 109 Perylene-d12          | 264 | 13.698       | 13.698           | 0.000            | 98  | 187111   | 40.0             | 40.0               |       |

**Reagents:**

SV\_IC-S\_L6\_00018

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160311-38326.b\\z41575.D

Injection Date: 11-Mar-2016 08:46:30

Instrument ID: CBNAMS11

Operator ID:

Lims ID: CCV

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

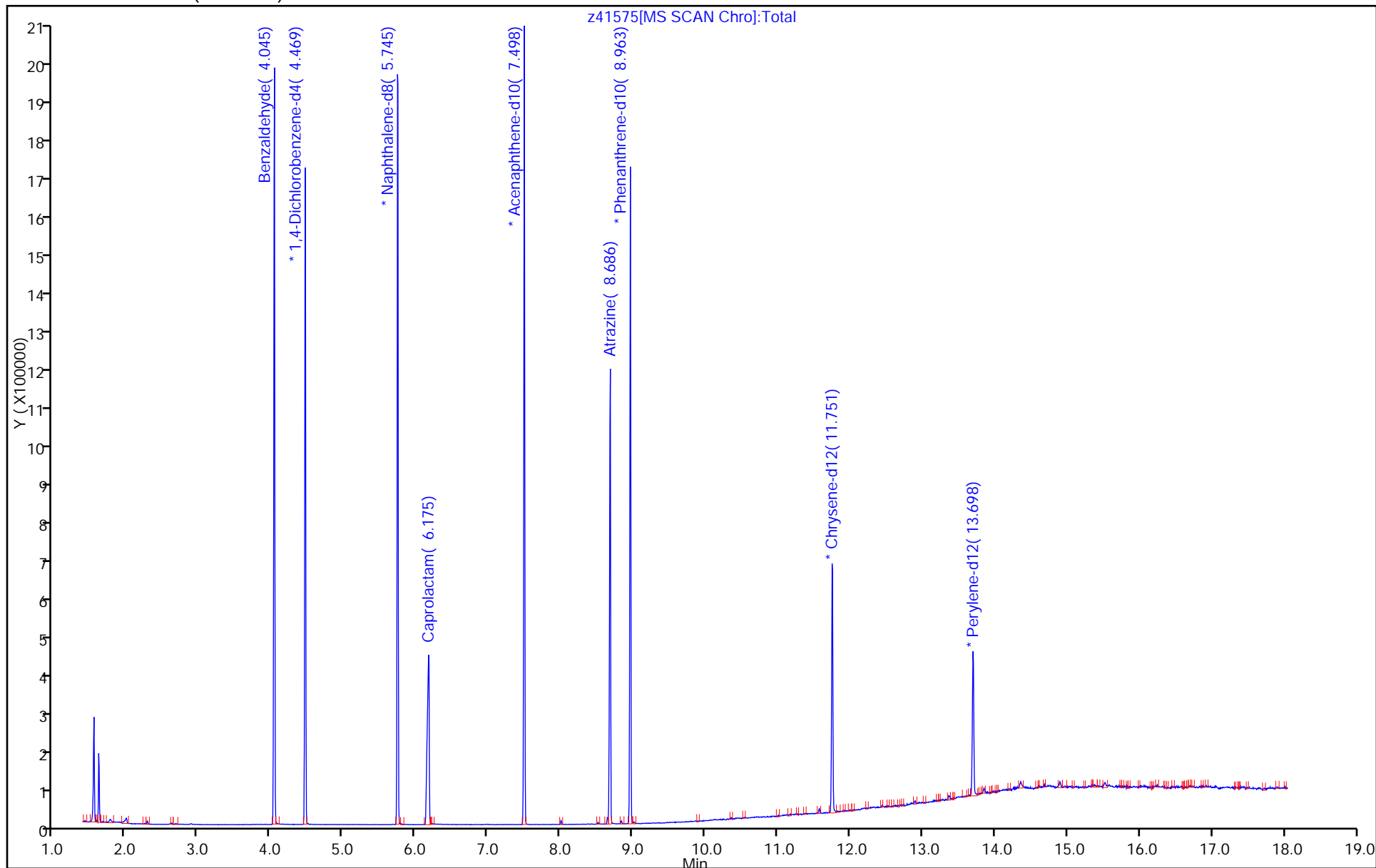
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8270\_11R\_9

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.: 460-109716-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 460-354301/18 Calibration Date: 03/06/2016 17:07

Instrument ID: CBNAMS12 Calib Start Date: 03/06/2016 09:45

GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 03/06/2016 13:52

Lab File ID: L131130.D Conc. Units: ug/L

| ANALYTE                      | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D   | MAX %D |
|------------------------------|------------|---------|--------|---------|-------------|--------------|------|--------|
| 1,4-Dioxane                  | Ave        | 0.5841  | 0.6199 | 0.0100  | 26500       | 25000        | 6.1  | 30.0   |
| N-Nitrosodimethylamine       | Ave        | 0.7716  | 0.7170 |         | 23200       | 25000        | -7.1 | 30.0   |
| Pyridine                     | Ave        | 1.350   | 1.397  |         | 25900       | 25000        | 3.4  | 30.0   |
| Phenol                       | Ave        | 1.682   | 1.758  | 0.8000  | 26100       | 25000        | 4.5  | 30.0   |
| Aniline                      | Ave        | 1.969   | 1.958  |         | 24900       | 25000        | -0.6 | 30.0   |
| Bis(2-chloroethyl)ether      | Ave        | 1.360   | 1.384  | 0.7000  | 25400       | 25000        | 1.8  | 30.0   |
| 2-Chlorophenol               | Ave        | 1.400   | 1.473  | 0.8000  | 26300       | 25000        | 5.2  | 30.0   |
| n-Decane                     | Ave        | 2.397   | 2.546  | 0.0100  | 26600       | 25000        | 6.2  | 30.0   |
| 1,3-Dichlorobenzene          | Ave        | 1.585   | 1.617  |         | 25500       | 25000        | 2.0  | 30.0   |
| 1,4-Dichlorobenzene          | Ave        | 1.554   | 1.612  |         | 25900       | 25000        | 3.8  | 30.0   |
| Benzyl alcohol               | Ave        | 0.8299  | 0.8563 | 0.0100  | 25800       | 25000        | 3.2  | 30.0   |
| 1,2-Dichlorobenzene          | Ave        | 1.494   | 1.543  |         | 25800       | 25000        | 3.3  | 30.0   |
| 2-Methylphenol               | Ave        | 1.200   | 1.232  | 0.7000  | 25600       | 25000        | 2.6  | 30.0   |
| 2,2'-oxybis[1-chloropropane] | Ave        | 2.836   | 2.825  | 0.0100  | 24900       | 25000        | -0.4 | 30.0   |
| Acetophenone                 | Ave        | 1.674   | 1.717  | 0.0100  | 25600       | 25000        | 2.5  | 30.0   |
| 3 & 4 Methylphenol           | Ave        | 1.259   | 1.274  |         | 25300       | 25000        | 1.2  | 30.0   |
| 4-Methylphenol               | Ave        | 1.259   | 1.274  | 0.6000  | 25300       | 25000        | 1.2  | 30.0   |
| N-Nitrosodi-n-propylamine    | Ave        | 0.8695  | 0.8569 | 0.5000  | 24600       | 25000        | -1.4 | 30.0   |
| Hexachloroethane             | Ave        | 0.6803  | 0.7226 | 0.3000  | 26600       | 25000        | 6.2  | 30.0   |
| Nitrobenzene                 | Ave        | 0.5436  | 0.5716 | 0.2000  | 26300       | 25000        | 5.2  | 30.0   |
| n,n'-Dimethylaniline         | Ave        | 1.865   | 1.845  | 0.0100  | 24700       | 25000        | -1.1 | 30.0   |
| Isophorone                   | Ave        | 0.6525  | 0.6765 | 0.4000  | 25900       | 25000        | 3.7  | 30.0   |
| 2-Nitrophenol                | Ave        | 0.1946  | 0.2019 | 0.1000  | 25900       | 25000        | 3.7  | 30.0   |
| 2,4-Dimethylphenol           | Ave        | 0.3052  | 0.3110 | 0.2000  | 25500       | 25000        | 1.9  | 30.0   |
| Benzoic acid                 | Lin2       |         | 0.1489 |         | 22600       | 25000        | -9.8 | 30.0   |
| Bis(2-chloroethoxy)methane   | Ave        | 0.4195  | 0.4397 | 0.3000  | 26200       | 25000        | 4.8  | 30.0   |
| 2,4-Dichlorophenol           | Ave        | 0.2925  | 0.3109 | 0.2000  | 26600       | 25000        | 6.3  | 30.0   |
| 1,2,4-Trichlorobenzene       | Ave        | 0.3400  | 0.3650 |         | 26800       | 25000        | 7.4  | 30.0   |
| Naphthalene                  | Ave        | 1.001   | 1.062  | 0.7000  | 26500       | 25000        | 6.1  | 30.0   |
| 4-Chloroaniline              | Ave        | 0.4102  | 0.4092 | 0.0100  | 24900       | 25000        | -0.2 | 30.0   |
| Hexachlorobutadiene          | Ave        | 0.2118  | 0.2309 | 0.0100  | 27300       | 25000        | 9.0  | 30.0   |
| 4-Chloro-3-methylphenol      | Ave        | 0.2850  | 0.3011 |         | 26400       | 25000        | 5.7  | 30.0   |
| 2-Methylnaphthalene          | Ave        | 0.6463  | 0.6398 | 0.4000  | 24700       | 25000        | -1.0 | 30.0   |
| 1-Methylnaphthalene          | Ave        | 0.5583  | 0.5933 | 0.0100  | 26600       | 25000        | 6.3  | 30.0   |
| 1,2,4,5-Tetrachlorobenzene   | Ave        | 0.6117  | 0.6567 | 0.0100  | 26800       | 25000        | 7.4  | 30.0   |
| Hexachlorocyclopentadiene    | Ave        | 0.3586  | 0.3674 | 0.0500  | 25600       | 25000        | 2.4  | 30.0   |
| 2-tertbutyl-4-methylphenol   | Ave        | 0.4315  | 0.4394 | 0.0100  | 25500       | 25000        | 1.8  | 30.0   |
| 2,4,6-Trichlorophenol        | Ave        | 0.3942  | 0.4388 | 0.2000  | 27800       | 25000        | 11.3 | 30.0   |
| 2,4,5-Trichlorophenol        | Ave        | 0.4192  | 0.4403 | 0.2000  | 26300       | 25000        | 5.0  | 30.0   |
| 1,1'-Biphenyl                | Ave        | 1.499   | 1.614  | 0.0100  | 26900       | 25000        | 7.6  | 30.0   |
| 2-Chloronaphthalene          | Ave        | 1.205   | 1.267  | 0.8000  | 26300       | 25000        | 5.2  | 30.0   |

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-109716-1

SDG No.: \_\_\_\_\_

Lab Sample ID: ICV 460-354301/18 Calibration Date: 03/06/2016 17:07

Instrument ID: CBNAMS12 Calib Start Date: 03/06/2016 09:45

GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 03/06/2016 13:52

Lab File ID: L131130.D Conc. Units: ug/L

| ANALYTE                        | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|--------------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Phenyl ether                   | Ave        | 0.7815  | 0.8236 | 0.0100  | 26300       | 25000        | 5.4   | 30.0   |
| 2-Nitroaniline                 | Ave        | 0.4516  | 0.4634 | 0.0100  | 25700       | 25000        | 2.6   | 30.0   |
| 1,3-Dimethylnaphthalene        | Ave        | 0.9370  | 1.008  | 0.0100  | 26900       | 25000        | 7.6   | 30.0   |
| Dimethyl phthalate             | Ave        | 1.229   | 1.284  | 0.0100  | 26100       | 25000        | 4.5   | 30.0   |
| Coumarin                       | Ave        | 0.1959  | 0.1913 | 0.0100  | 24400       | 25000        | -2.4  | 30.0   |
| 2,6-Dinitrotoluene             | Ave        | 0.2823  | 0.3013 | 0.2000  | 26700       | 25000        | 6.7   | 30.0   |
| Acenaphthylene                 | Ave        | 1.744   | 1.782  | 0.9000  | 25500       | 25000        | 2.2   | 30.0   |
| 3-Nitroaniline                 | Ave        | 0.2988  | 0.3102 | 0.0100  | 26000       | 25000        | 3.8   | 30.0   |
| 3,5-di-tert-butyl-4-hydroxytol | Ave        | 0.9874  | 1.059  | 0.0100  | 26800       | 25000        | 7.3   | 30.0   |
| Acenaphthene                   | Ave        | 1.048   | 1.105  | 0.9000  | 26400       | 25000        | 5.4   | 30.0   |
| 2,4-Dinitrophenol              | Qua        |         | 0.1480 | 0.0100  | 46300       | 50000        | -7.4  | 30.0   |
| 4-Nitrophenol                  | Ave        | 0.2471  | 0.2648 | 0.0100  | 53600       | 50000        | 7.2   | 30.0   |
| 2,4-Dinitrotoluene             | Ave        | 0.3455  | 0.3765 | 0.2000  | 27200       | 25000        | 9.0   | 30.0   |
| Dibenzofuran                   | Ave        | 1.568   | 1.634  | 0.8000  | 26000       | 25000        | 4.2   | 30.0   |
| 2,3,4,6-Tetrachlorophenol      | Ave        | 0.3159  | 0.3282 | 0.0100  | 26000       | 25000        | 3.9   | 30.0   |
| Diethyl phthalate              | Ave        | 1.232   | 1.296  | 0.0100  | 26300       | 25000        | 5.2   | 30.0   |
| Fluorene                       | Ave        | 1.225   | 1.261  | 0.9000  | 25700       | 25000        | 2.9   | 30.0   |
| 4-Chlorophenyl phenyl ether    | Ave        | 0.5676  | 0.5868 | 0.4000  | 25800       | 25000        | 3.4   | 30.0   |
| 4-Nitroaniline                 | Ave        | 0.2748  | 0.2594 | 0.0100  | 23600       | 25000        | -5.6  | 30.0   |
| 4,6-Dinitro-2-methylphenol     | Lin2       |         | 0.1444 | 0.0100  | 49400       | 50000        | -1.3  | 30.0   |
| N-Nitrosodiphenylamine         | Ave        | 0.5843  | 0.7222 | 0.0100  | 52500       | 42500        | 23.6  | 30.0   |
| 1,2-Diphenylhydrazine          | Ave        | 0.9104  | 1.045  | 0.0100  | 28700       | 25000        | 14.8  | 30.0   |
| 4-Bromophenyl phenyl ether     | Ave        | 0.2308  | 0.2510 | 0.1000  | 27200       | 25000        | 8.7   | 30.0   |
| Hexachlorobenzene              | Ave        | 0.2816  | 0.3026 | 0.1000  | 26900       | 25000        | 7.5   | 30.0   |
| Pentachlorophenol              | Ave        | 0.1490  | 0.1696 | 0.0500  | 56900       | 50000        | 13.8  | 30.0   |
| Pentachloronitrobenzene        | Ave        | 0.1094  | 0.1232 | 0.0100  | 28100       | 25000        | 12.5  | 30.0   |
| n-Octadecane                   | Ave        | 0.7772  | 0.8512 | 0.0100  | 27400       | 25000        | 9.5   | 30.0   |
| Phenanthrene                   | Ave        | 1.143   | 1.161  | 0.7000  | 25400       | 25000        | 1.6   | 30.0   |
| Anthracene                     | Ave        | 1.161   | 1.198  | 0.7000  | 25800       | 25000        | 3.1   | 30.0   |
| Carbazole                      | Ave        | 0.996   | 1.011  | 0.0100  | 25400       | 25000        | 1.5   | 30.0   |
| Di-n-butyl phthalate           | Ave        | 1.297   | 1.372  | 0.0100  | 26400       | 25000        | 5.8   | 30.0   |
| Fluoranthene                   | Ave        | 1.099   | 1.101  | 0.6000  | 25000       | 25000        | 0.2   | 30.0   |
| Benzidine                      | QuaF       |         | 0.4747 |         | 18100       | 25000        | -27.7 | 30.0   |
| Pyrene                         | Ave        | 1.531   | 1.631  | 0.6000  | 26600       | 25000        | 6.5   | 30.0   |
| Bisphenol-A                    | Ave        | 0.6119  | 0.6101 |         | 24900       | 25000        | -0.3  | 30.0   |
| Butyl benzyl phthalate         | Ave        | 0.6603  | 0.7203 | 0.0100  | 27300       | 25000        | 9.1   | 30.0   |
| Carbamazepine                  | Lin2       |         | 0.4446 | 0.0100  | 22300       | 25000        | -10.9 | 30.0   |
| 3,3'-Dichlorobenzidine         | Ave        | 0.4317  | 0.4483 | 0.0100  | 26000       | 25000        | 3.8   | 30.0   |
| Benzo[a]anthracene             | Ave        | 1.237   | 1.294  | 0.8000  | 26100       | 25000        | 4.6   | 30.0   |
| Bis(2-ethylhexyl) phthalate    | Ave        | 0.8776  | 0.9378 | 0.0100  | 26700       | 25000        | 6.9   | 30.0   |

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 460-354301/18 Calibration Date: 03/06/2016 17:07  
 Instrument ID: CBNAMS12 Calib Start Date: 03/06/2016 09:45  
 GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 03/06/2016 13:52  
 Lab File ID: L131130.D Conc. Units: ug/L

| ANALYTE                | CURVE<br>TYPE | AVE RRF | RRF   | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D   | MAX<br>%D |
|------------------------|---------------|---------|-------|---------|----------------|-----------------|------|-----------|
| Chrysene               | Ave           | 1.102   | 1.224 | 0.7000  | 27800          | 25000           | 11.1 | 30.0      |
| Di-n-octyl phthalate   | Ave           | 1.577   | 1.731 | 0.0100  | 27400          | 25000           | 9.8  | 30.0      |
| Benzo[b]fluoranthene   | Ave           | 1.181   | 1.259 | 0.7000  | 26600          | 25000           | 6.6  | 30.0      |
| Benzo[k]fluoranthene   | Ave           | 1.239   | 1.368 | 0.7000  | 27600          | 25000           | 10.4 | 30.0      |
| Benzo[a]pyrene         | Ave           | 1.113   | 1.203 | 0.7000  | 27000          | 25000           | 8.1  | 30.0      |
| Indeno[1,2,3-cd]pyrene | Ave           | 1.064   | 1.208 | 0.5000  | 28400          | 25000           | 13.6 | 30.0      |
| Dibenz(a,h)anthracene  | Ave           | 1.011   | 1.196 | 0.4000  | 29600          | 25000           | 18.3 | 30.0      |
| Benzo[g,h,i]perylene   | Ave           | 1.104   | 1.257 | 0.5000  | 28500          | 25000           | 13.8 | 30.0      |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131130.D  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 06-Mar-2016 17:07:30 ALS Bottle#: 18 Worklist Smp#: 18  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038074-018  
 Operator ID: Instrument ID: CBNAMS12  
 Sublist:  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 07-Mar-2016 09:43:30 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK030

First Level Reviewer: bayoumiw

Date: 06-Mar-2016 22:12:46

| 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  | 1.610     | 1.604         | 0.006         | 95  | 49208    | 25.0          | 26.5            |       |
| 2 N-Nitrosodimethylamine      | 74  | 1.834     | 1.834         | 0.000         | 71  | 56916    | 25.0          | 23.2            |       |
| 3 Pyridine                    | 79  | 1.869     | 1.863         | 0.006         | 80  | 110881   | 25.0          | 25.9            |       |
| 7 Phenol                      | 94  | 3.940     | 3.946         | -0.006        | 97  | 139561   | 25.0          | 26.1            |       |
| 8 Aniline                     | 93  | 3.963     | 3.963         | 0.000         | 98  | 155434   | 25.0          | 24.9            |       |
| 9 Bis(2-chloroethyl)ether     | 93  | 4.028     | 4.028         | 0.000         | 92  | 109836   | 25.0          | 25.4            |       |
| 10 2-Chlorophenol             | 128 | 4.087     | 4.087         | 0.000         | 93  | 116959   | 25.0          | 26.3            |       |
| 11 n-Decane                   | 43  | 4.146     | 4.146         | 0.000         | 96  | 202109   | 25.0          | 26.6            |       |
| 12 1,3-Dichlorobenzene        | 146 | 4.246     | 4.246         | 0.000         | 93  | 128358   | 25.0          | 25.5            |       |
| * 13 1,4-Dichlorobenzene-d4   | 152 | 4.298     | 4.293         | 0.005         | 97  | 127013   | 40.0          | 40.0            |       |
| 14 1,4-Dichlorobenzene        | 146 | 4.316     | 4.316         | 0.000         | 92  | 127992   | 25.0          | 25.9            |       |
| 15 Benzyl alcohol             | 108 | 4.434     | 4.434         | 0.000         | 90  | 67972    | 25.0          | 25.8            |       |
| 16 1,2-Dichlorobenzene        | 146 | 4.469     | 4.469         | 0.000         | 94  | 122498   | 25.0          | 25.8            |       |
| 17 2-Methylphenol             | 108 | 4.551     | 4.551         | 0.000         | 86  | 97767    | 25.0          | 25.6            |       |
| 18 2,2'-oxybis[1-chloropropan | 45  | 4.575     | 4.575         | 0.000         | 91  | 224220   | 25.0          | 24.9            |       |
| 22 Acetophenone               | 105 | 4.698     | 4.704         | -0.006        | 91  | 136274   | 25.0          | 25.6            |       |
| 19 4-Methylphenol             | 108 | 4.704     | 4.710         | -0.006        | 82  | 101135   | 25.0          | 25.3            |       |
| 20 3 & 4 Methylphenol         | 108 | 4.704     | 4.710         | -0.006        | 84  | 101135   | 25.0          | 25.3            |       |
| 21 N-Nitrosodi-n-propylamine  | 70  | 4.704     | 4.710         | -0.006        | 96  | 68026    | 25.0          | 24.6            |       |
| 25 Hexachloroethane           | 117 | 4.810     | 4.810         | 0.000         | 94  | 57359    | 25.0          | 26.6            |       |
| 27 Nitrobenzene               | 77  | 4.869     | 4.875         | -0.006        | 87  | 154224   | 25.0          | 26.3            |       |
| 28 n,n'-Dimethylaniline       | 120 | 4.881     | 4.881         | 0.000         | 95  | 146455   | 25.0          | 24.7            |       |
| 29 Isophorone                 | 82  | 5.110     | 5.116         | -0.006        | 98  | 182520   | 25.0          | 25.9            |       |
| 30 2-Nitrophenol              | 139 | 5.193     | 5.192         | 0.000         | 82  | 54473    | 25.0          | 25.9            |       |
| 31 2,4-Dimethylphenol         | 122 | 5.240     | 5.245         | -0.005        | 88  | 83895    | 25.0          | 25.5            |       |
| 32 Bis(2-chloroethoxy)methane | 93  | 5.334     | 5.334         | 0.000         | 96  | 118619   | 25.0          | 26.2            |       |
| 33 Benzoic acid               | 122 | 5.334     | 5.363         | -0.029        | 90  | 40173    | 25.0          | 22.6            |       |
| 34 2,4-Dichlorophenol         | 162 | 5.434     | 5.440         | -0.006        | 93  | 83879    | 25.0          | 26.6            |       |
| 35 1,2,4-Trichlorobenzene     | 180 | 5.522     | 5.522         | 0.000         | 94  | 98476    | 25.0          | 26.8            |       |
| * 36 Naphthalene-d8           | 136 | 5.575     | 5.575         | 0.000         | 100 | 431672   | 40.0          | 40.0            |       |
| 37 Naphthalene                | 128 | 5.598     | 5.598         | 0.000         | 99  | 286545   | 25.0          | 26.5            |       |

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-------------------------------|-----|-----------|---------------|---------------|----|----------|---------------|-----------------|-------|
| 38 4-Chloroaniline            | 127 | 5.651     | 5.651         | 0.000         | 95 | 110404   | 25.0          | 24.9            |       |
| 39 Hexachlorobutadiene        | 225 | 5.740     | 5.734         | 0.006         | 95 | 62294    | 25.0          | 27.3            |       |
| 41 4-Chloro-3-methylphenol    | 107 | 6.140     | 6.139         | 0.001         | 97 | 81246    | 25.0          | 26.4            |       |
| 42 2-Methylnaphthalene        | 142 | 6.292     | 6.292         | 0.000         | 84 | 172612   | 25.0          | 24.7            |       |
| 43 1-Methylnaphthalene        | 142 | 6.387     | 6.387         | 0.000         | 92 | 160057   | 25.0          | 26.6            |       |
| 44 Hexachlorocyclopentadiene  | 237 | 6.463     | 6.463         | 0.000         | 94 | 47570    | 25.0          | 25.6            |       |
| 45 1,2,4,5-Tetrachlorobenzene | 216 | 6.463     | 6.463         | 0.000         | 96 | 85032    | 25.0          | 26.8            |       |
| 46 2-tertbutyl-4-methylphenol | 149 | 6.498     | 6.498         | 0.000         | 89 | 118547   | 25.0          | 25.5            |       |
| 48 2,4,6-Trichlorophenol      | 196 | 6.575     | 6.575         | 0.000         | 89 | 56815    | 25.0          | 27.8            |       |
| 49 2,4,5-Trichlorophenol      | 196 | 6.604     | 6.610         | -0.006        | 96 | 57013    | 25.0          | 26.3            |       |
| 51 1,1'-Biphenyl              | 154 | 6.757     | 6.757         | 0.000         | 95 | 208949   | 25.0          | 26.9            |       |
| 52 2-Chloronaphthalene        | 162 | 6.775     | 6.775         | 0.000         | 97 | 164060   | 25.0          | 26.3            |       |
| 53 Phenyl ether               | 170 | 6.863     | 6.863         | 0.000         | 91 | 106642   | 25.0          | 26.3            |       |
| 54 2-Nitroaniline             | 65  | 6.875     | 6.875         | 0.000         | 95 | 59997    | 25.0          | 25.7            |       |
| 55 1,3-Dimethylnaphthalene    | 156 | 6.992     | 6.992         | 0.000         | 92 | 130566   | 25.0          | 26.9            |       |
| 58 Dimethyl phthalate         | 163 | 7.057     | 7.063         | -0.006        | 98 | 166303   | 25.0          | 26.1            |       |
| 59 Coumarin                   | 146 | 7.075     | 7.075         | 0.000         | 72 | 51597    | 25.0          | 24.4            |       |
| 60 2,6-Dinitrotoluene         | 165 | 7.110     | 7.116         | -0.006        | 91 | 39013    | 25.0          | 26.7            |       |
| 61 Acenaphthylene             | 152 | 7.181     | 7.181         | 0.000         | 97 | 230767   | 25.0          | 25.5            |       |
| 62 3-Nitroaniline             | 138 | 7.275     | 7.281         | -0.006        | 92 | 40167    | 25.0          | 26.0            |       |
| * 63 Acenaphthene-d10         | 164 | 7.322     | 7.322         | 0.000         | 93 | 207168   | 40.0          | 40.0            |       |
| 64 3,5-di-tert-butyl-4-hydrox | 205 | 7.351     | 7.351         | 0.000         | 98 | 137169   | 25.0          | 26.8            |       |
| 65 Acenaphthene               | 154 | 7.357     | 7.357         | 0.000         | 95 | 143037   | 25.0          | 26.4            |       |
| 66 2,4-Dinitrophenol          | 184 | 7.375     | 7.381         | -0.006        | 91 | 38319    | 50.0          | 46.3            |       |
| 67 4-Nitrophenol              | 65  | 7.445     | 7.451         | -0.006        | 90 | 68569    | 50.0          | 53.6            |       |
| 68 2,4-Dinitrotoluene         | 165 | 7.504     | 7.510         | -0.006        | 93 | 48751    | 25.0          | 27.2            |       |
| 69 Dibenzofuran               | 168 | 7.522     | 7.528         | -0.006        | 95 | 211539   | 25.0          | 26.0            |       |
| 70 2,3,4,6-Tetrachlorophenol  | 232 | 7.651     | 7.651         | 0.000         | 93 | 42491    | 25.0          | 26.0            |       |
| 71 Diethyl phthalate          | 149 | 7.751     | 7.757         | -0.006        | 97 | 167851   | 25.0          | 26.3            |       |
| 73 4-Chlorophenyl phenyl ethe | 204 | 7.863     | 7.857         | 0.006         | 76 | 75972    | 25.0          | 25.8            |       |
| 74 Fluorene                   | 166 | 7.857     | 7.863         | -0.006        | 94 | 163283   | 25.0          | 25.7            |       |
| 75 4-Nitroaniline             | 138 | 7.875     | 7.881         | -0.006        | 94 | 33585    | 25.0          | 23.6            |       |
| 76 4,6-Dinitro-2-methylphenol | 198 | 7.910     | 7.916         | -0.006        | 82 | 52012    | 50.0          | 49.4            |       |
| 77 N-Nitrosodiphenylamine     | 169 | 7.975     | 7.981         | -0.006        | 69 | 221071   | 42.5          | 52.5            |       |
| 78 1,2-Diphenylhydrazine      | 77  | 8.016     | 8.016         | 0.000         | 99 | 188172   | 25.0          | 28.7            |       |
| 80 4-Bromophenyl phenyl ether | 248 | 8.339     | 8.339         | 0.000         | 85 | 45196    | 25.0          | 27.2            |       |
| 81 Hexachlorobenzene          | 284 | 8.410     | 8.410         | 0.000         | 97 | 54498    | 25.0          | 26.9            |       |
| 83 Pentachlorophenol          | 266 | 8.598     | 8.598         | 0.000         | 93 | 61080    | 50.0          | 56.9            |       |
| 84 Pentachloronitrobenzene    | 237 | 8.616     | 8.616         | 0.000         | 86 | 22177    | 25.0          | 28.1            |       |
| 72 n-Octadecane               | 57  | 8.681     | 8.681         | 0.001         | 95 | 153268   | 25.0          | 27.4            |       |
| * 85 Phenanthrene-d10         | 188 | 8.775     | 8.775         | 0.000         | 99 | 288116   | 40.0          | 40.0            |       |
| 86 Phenanthrene               | 178 | 8.798     | 8.798         | 0.000         | 98 | 209043   | 25.0          | 25.4            |       |
| 87 Anthracene                 | 178 | 8.851     | 8.851         | 0.000         | 98 | 215659   | 25.0          | 25.8            |       |
| 88 Carbazole                  | 167 | 9.004     | 9.004         | 0.000         | 96 | 182064   | 25.0          | 25.4            |       |
| 89 Di-n-butyl phthalate       | 149 | 9.345     | 9.345         | 0.000         | 99 | 247003   | 25.0          | 26.4            |       |
| 90 Fluoranthene               | 202 | 9.963     | 9.963         | 0.000         | 98 | 198222   | 25.0          | 25.0            |       |
| 91 Benzidine                  | 184 | 10.086    | 10.086        | 0.000         | 99 | 85480    | 25.0          | 18.1            |       |
| 92 Pyrene                     | 202 | 10.180    | 10.186        | -0.006        | 97 | 195227   | 25.0          | 26.6            |       |
| 93 Bisphenol-A                | 213 | 10.227    | 10.227        | 0.000         | 99 | 73022    | 25.0          | 24.9            |       |
| 95 Butyl benzyl phthalate     | 149 | 10.857    | 10.857        | 0.000         | 98 | 86214    | 25.0          | 27.3            |       |
| 97 Carbamazepine              | 193 | 10.980    | 10.980        | 0.000         | 92 | 53215    | 25.0          | 22.3            |       |
| 98 3,3'-Dichlorobenzidine     | 252 | 11.469    | 11.474        | -0.005        | 99 | 53653    | 25.0          | 26.0            |       |

| Compound                       | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|--------------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| 99 Benzo[a]anthracene          | 228 | 11.498       | 11.504           | -0.006           | 98 | 154912   | 25.0             | 26.1               |       |
| * 100 Chrysene-d12             | 240 | 11.510       | 11.510           | 0.000            | 99 | 191513   | 40.0             | 40.0               |       |
| 102 Bis(2-ethylhexyl) phthalat | 149 | 11.545       | 11.539           | 0.006            | 83 | 112255   | 25.0             | 26.7               |       |
| 101 Chrysene                   | 228 | 11.545       | 11.545           | 0.000            | 99 | 146472   | 25.0             | 27.8               |       |
| 103 Di-n-octyl phthalate       | 149 | 12.386       | 12.386           | 0.000            | 97 | 175174   | 25.0             | 27.4               |       |
| 104 Benzo[b]fluoranthene       | 252 | 12.886       | 12.892           | -0.006           | 99 | 127379   | 25.0             | 26.6               |       |
| 105 Benzo[k]fluoranthene       | 252 | 12.921       | 12.933           | -0.012           | 99 | 138442   | 25.0             | 27.6               |       |
| 106 Benzo[a]pyrene             | 252 | 13.327       | 13.333           | -0.006           | 97 | 121716   | 25.0             | 27.0               |       |
| * 107 Perylene-d12             | 264 | 13.410       | 13.410           | 0.000            | 98 | 161896   | 40.0             | 40.0               |       |
| 108 Indeno[1,2,3-cd]pyrene     | 276 | 14.839       | 14.851           | -0.012           | 99 | 122271   | 25.0             | 28.4               |       |
| 109 Dibenz(a,h)anthracene      | 278 | 14.868       | 14.880           | -0.012           | 97 | 121009   | 25.0             | 29.6               |       |
| 110 Benzo[g,h,i]perylene       | 276 | 15.186       | 15.204           | -0.018           | 97 | 127171   | 25.0             | 28.5               |       |

**Reagents:**

SM\_ICV-long\_00010

Amount Added: 1.00

Units: mL



## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS12\\20160306-38074.b\\L131130.D

Injection Date: 06-Mar-2016 17:07:30

Instrument ID: CBNAMS12

Operator ID:

Lims ID: ICV

Worklist Smp#: 18

Client ID:

Injection Vol: 1.0 ul

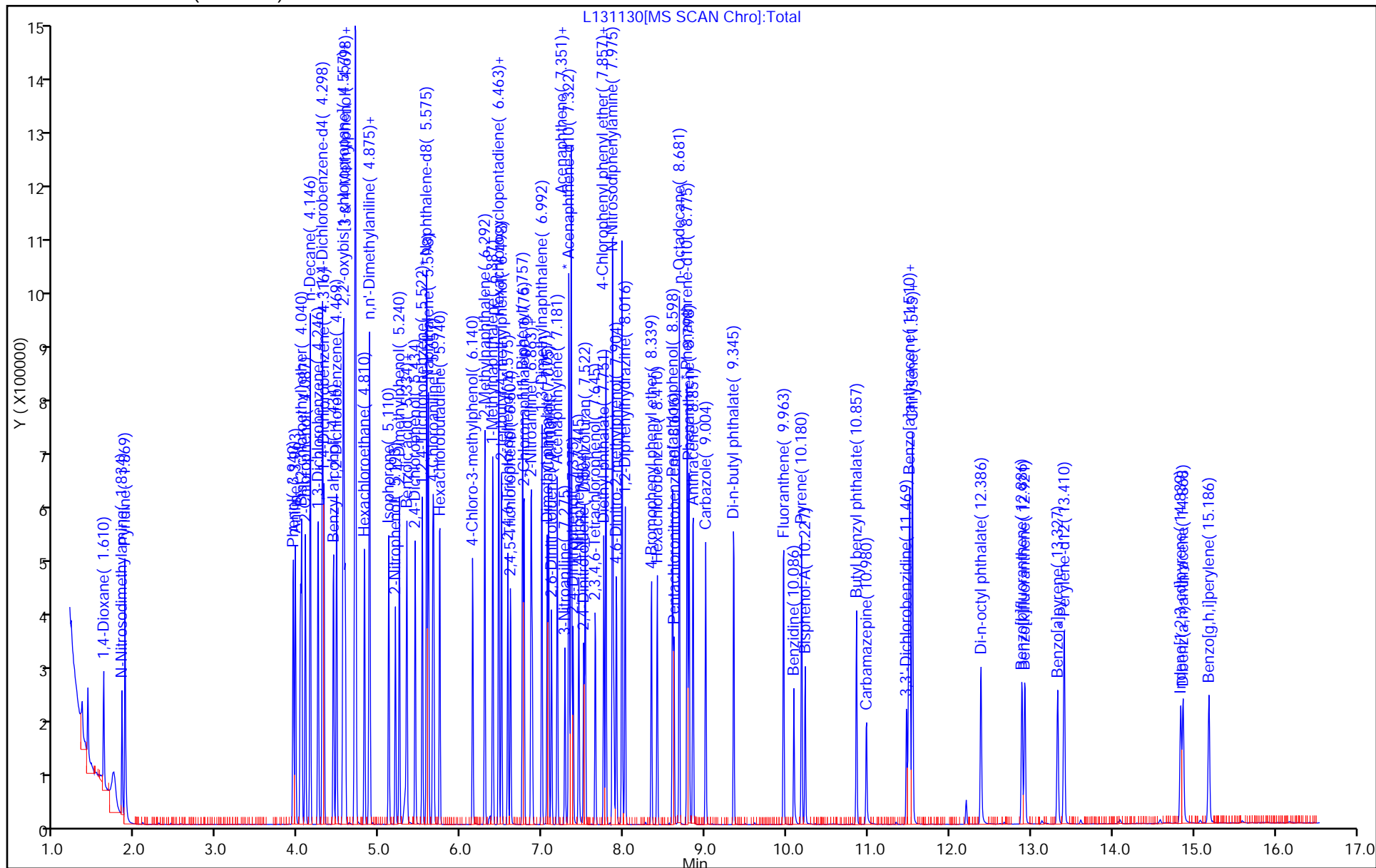
Dil. Factor: 1.0000

ALS Bottle#: 18

Method: 8270\_12R\_9

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.: 460-109716-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: ICV 460-354301/19 Calibration Date: 03/06/2016 17:31  
Instrument ID: CBNAMS12 Calib Start Date: 03/06/2016 14:16  
GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 03/06/2016 16:43  
Lab File ID: L131131.D Conc. Units: ug/L

| ANALYTE      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D   | MAX<br>%D |
|--------------|---------------|---------|--------|---------|----------------|-----------------|------|-----------|
| Benzaldehyde | Ave           | 1.202   | 1.349  | 0.0100  | 28000          | 25000           | 12.2 | 30.0      |
| Caprolactam  | Ave           | 0.0746  | 0.0871 | 0.0100  | 29200          | 25000           | 16.7 | 30.0      |
| Atrazine     | Ave           | 0.1947  | 0.2246 | 0.0100  | 28800          | 25000           | 15.4 | 30.0      |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131131.D  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 06-Mar-2016 17:31:30 ALS Bottle#: 19 Worklist Smp#: 19  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038074-019  
 Operator ID: Instrument ID: CBNAMS12  
 Sublist:  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 07-Mar-2016 09:43:30 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK030

First Level Reviewer: bayoumiw

Date: 06-Mar-2016 22:31:32

| Compound                    | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 5 Benzaldehyde              | 77  | 3.851        | 3.851            | 0.000            | 91  | 119193   | 25.0             | 28.0               |       |
| * 13 1,4-Dichlorobenzene-d4 | 152 | 4.298        | 4.293            | 0.005            | 98  | 141396   | 40.0             | 40.0               |       |
| * 36 Naphthalene-d8         | 136 | 5.575        | 5.575            | 0.000            | 100 | 503150   | 40.0             | 40.0               |       |
| 40 Caprolactam              | 113 | 5.969        | 5.975            | -0.006           | 87  | 27381    | 25.0             | 29.2               |       |
| * 63 Acenaphthene-d10       | 164 | 7.322        | 7.322            | 0.000            | 94  | 247239   | 40.0             | 40.0               |       |
| 82 Atrazine                 | 200 | 8.498        | 8.498            | 0.000            | 87  | 50711    | 25.0             | 28.8               |       |
| * 85 Phenanthrene-d10       | 188 | 8.775        | 8.775            | 0.000            | 99  | 361195   | 40.0             | 40.0               |       |
| * 100 Chrysene-d12          | 240 | 11.510       | 11.510           | 0.000            | 99  | 258823   | 40.0             | 40.0               |       |
| * 107 Perylene-d12          | 264 | 13.410       | 13.410           | 0.000            | 98  | 199385   | 40.0             | 40.0               |       |

**Reagents:**

SM\_ICV-short\_00009

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS12\\20160306-38074.b\\L131131.D

Injection Date: 06-Mar-2016 17:31:30

Instrument ID: CBNAMS12

Operator ID:

Lims ID: ICV

Worklist Smp#: 19

Client ID:

Injection Vol: 1.0 ul

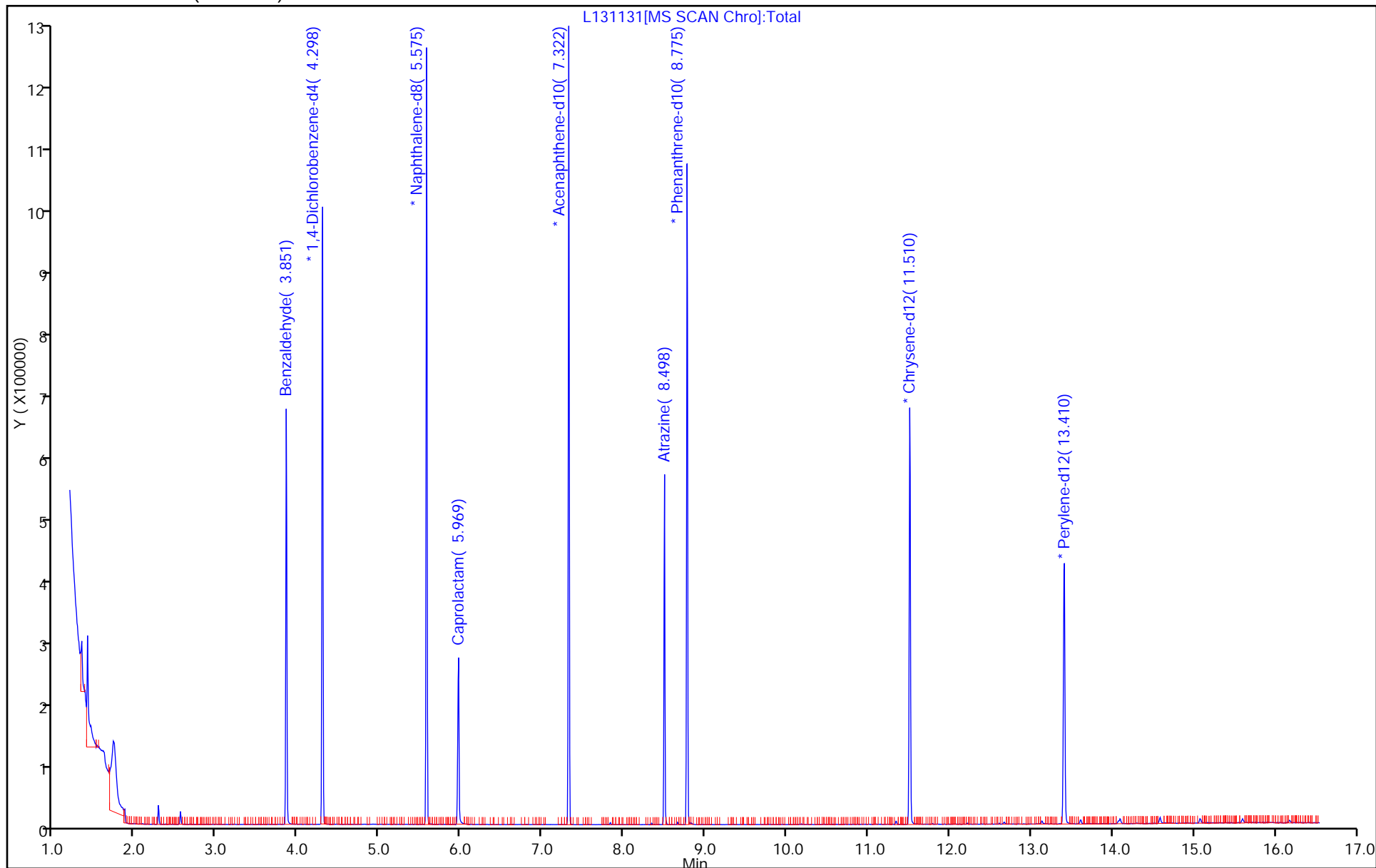
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: 8270\_12R\_9

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.: 460-109716-1

SDG No.: \_\_\_\_\_

Lab Sample ID: CCVIS 460-355423/2 Calibration Date: 03/11/2016 02:45

Instrument ID: CBNAMS12 Calib Start Date: 03/06/2016 09:45

GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 03/06/2016 13:52

Lab File ID: L131350a.D Conc. Units: ug/L

| ANALYTE                      | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|------------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| 1,4-Dioxane                  | Ave        | 0.5841  | 0.5871 | 0.0100  | 50300       | 50000        | 0.5   | 20.0   |
| N-Nitrosodimethylamine       | Ave        | 0.7716  | 0.8588 |         | 55700       | 50000        | 11.3  | 20.0   |
| Pyridine                     | Ave        | 1.350   | 1.490  |         | 55200       | 50000        | 10.3  | 20.0   |
| Phenol                       | Ave        | 1.682   | 1.886  | 0.8000  | 56100       | 50000        | 12.2  | 20.0   |
| Aniline                      | Ave        | 1.969   | 2.145  |         | 54500       | 50000        | 8.9   | 20.0   |
| Bis(2-chloroethyl)ether      | Ave        | 1.360   | 1.405  | 0.7000  | 51700       | 50000        | 3.3   | 20.0   |
| 2-Chlorophenol               | Ave        | 1.400   | 1.409  | 0.8000  | 50300       | 50000        | 0.6   | 20.0   |
| n-Decane                     | Ave        | 2.397   | 2.403  | 0.0100  | 50100       | 50000        | 0.3   | 20.0   |
| 1,3-Dichlorobenzene          | Ave        | 1.585   | 1.582  |         | 49900       | 50000        | -0.2  | 20.0   |
| 1,4-Dichlorobenzene          | Ave        | 1.554   | 1.591  |         | 51200       | 50000        | 2.4   | 20.0   |
| Benzyl alcohol               | Ave        | 0.8299  | 0.9043 | 0.0100  | 54500       | 50000        | 9.0   | 20.0   |
| 1,2-Dichlorobenzene          | Ave        | 1.494   | 1.519  |         | 50800       | 50000        | 1.6   | 20.0   |
| 2-Methylphenol               | Ave        | 1.200   | 1.248  | 0.7000  | 52000       | 50000        | 3.9   | 20.0   |
| 2,2'-oxybis[1-chloropropane] | Ave        | 2.836   | 2.860  | 0.0100  | 50400       | 50000        | 0.8   | 20.0   |
| Acetophenone                 | Ave        | 1.674   | 1.723  | 0.0100  | 51500       | 50000        | 2.9   | 20.0   |
| N-Nitrosodi-n-propylamine    | Ave        | 0.8695  | 0.9165 | 0.5000  | 52700       | 50000        | 5.4   | 20.0   |
| 3 & 4 Methylphenol           | Ave        | 1.259   | 1.244  |         | 49400       | 50000        | -1.2  | 20.0   |
| 4-Methylphenol               | Ave        | 1.259   | 1.244  | 0.6000  | 49400       | 50000        | -1.2  | 20.0   |
| Hexachloroethane             | Ave        | 0.6803  | 0.6743 | 0.3000  | 49600       | 50000        | -0.9  | 20.0   |
| Nitrobenzene                 | Ave        | 0.5436  | 0.5472 | 0.2000  | 50300       | 50000        | 0.7   | 20.0   |
| n,n'-Dimethylaniline         | Ave        | 1.865   | 1.896  | 0.0100  | 50800       | 50000        | 1.6   | 20.0   |
| Isophorone                   | Ave        | 0.6525  | 0.6741 | 0.4000  | 51700       | 50000        | 3.3   | 20.0   |
| 2-Nitrophenol                | Ave        | 0.1946  | 0.1989 | 0.1000  | 51100       | 50000        | 2.2   | 20.0   |
| 2,4-Dimethylphenol           | Ave        | 0.3052  | 0.3078 | 0.2000  | 50400       | 50000        | 0.8   | 20.0   |
| Bis(2-chloroethoxy)methane   | Ave        | 0.4195  | 0.4393 | 0.3000  | 52400       | 50000        | 4.7   | 20.0   |
| Benzoic acid                 | Lin2       |         | 0.1467 |         | 41300       | 50000        | -17.4 | 20.0   |
| 2,4-Dichlorophenol           | Ave        | 0.2925  | 0.2892 | 0.2000  | 49400       | 50000        | -1.1  | 20.0   |
| 1,2,4-Trichlorobenzene       | Ave        | 0.3400  | 0.3225 |         | 47400       | 50000        | -5.1  | 20.0   |
| Naphthalene                  | Ave        | 1.001   | 1.022  | 0.7000  | 51100       | 50000        | 2.1   | 20.0   |
| 4-Chloroaniline              | Ave        | 0.4102  | 0.4088 | 0.0100  | 49800       | 50000        | -0.3  | 20.0   |
| Hexachlorobutadiene          | Ave        | 0.2118  | 0.1917 | 0.0100  | 45200       | 50000        | -9.5  | 20.0   |
| 4-Chloro-3-methylphenol      | Ave        | 0.2850  | 0.2854 |         | 50100       | 50000        | 0.2   | 20.0   |
| 2-Methylnaphthalene          | Ave        | 0.6463  | 0.6295 | 0.4000  | 48700       | 50000        | -2.6  | 20.0   |
| 1-Methylnaphthalene          | Ave        | 0.5583  | 0.5465 | 0.0100  | 48900       | 50000        | -2.1  | 20.0   |
| 1,2,4,5-Tetrachlorobenzene   | Ave        | 0.6117  | 0.5804 | 0.0100  | 47400       | 50000        | -5.1  | 20.0   |
| Hexachlorocyclopentadiene    | Ave        | 0.3586  | 0.3843 | 0.0500  | 53600       | 50000        | 7.2   | 20.0   |
| 2-tertbutyl-4-methylphenol   | Ave        | 0.4315  | 0.4069 | 0.0100  | 47200       | 50000        | -5.7  | 20.0   |
| 2,4,6-Trichlorophenol        | Ave        | 0.3942  | 0.3894 | 0.2000  | 49400       | 50000        | -1.2  | 20.0   |
| 2,4,5-Trichlorophenol        | Ave        | 0.4192  | 0.4023 | 0.2000  | 48000       | 50000        | -4.0  | 20.0   |
| 1,1'-Biphenyl                | Ave        | 1.499   | 1.480  | 0.0100  | 49400       | 50000        | -1.3  | 20.0   |
| 2-Chloronaphthalene          | Ave        | 1.205   | 1.174  | 0.8000  | 48700       | 50000        | -2.6  | 20.0   |

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 460-355423/2 Calibration Date: 03/11/2016 02:45  
 Instrument ID: CBNAMS12 Calib Start Date: 03/06/2016 09:45  
 GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 03/06/2016 13:52  
 Lab File ID: L131350a.D Conc. Units: ug/L

| ANALYTE                        | CURVE TYPE | AVE RRF | RRF    | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D    | MAX %D |
|--------------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Phenyl ether                   | Ave        | 0.7815  | 0.7783 | 0.0100  | 49800       | 50000        | -0.4  | 20.0   |
| 2-Nitroaniline                 | Ave        | 0.4516  | 0.4660 | 0.0100  | 51600       | 50000        | 3.2   | 20.0   |
| 1,3-Dimethylnaphthalene        | Ave        | 0.9370  | 0.9407 | 0.0100  | 50200       | 50000        | 0.4   | 20.0   |
| Dimethyl phthalate             | Ave        | 1.229   | 1.198  | 0.0100  | 48700       | 50000        | -2.5  | 20.0   |
| Coumarin                       | Ave        | 0.1959  | 0.1967 | 0.0100  | 50200       | 50000        | 0.4   | 20.0   |
| 2,6-Dinitrotoluene             | Ave        | 0.2823  | 0.2884 | 0.2000  | 51100       | 50000        | 2.1   | 20.0   |
| Acenaphthylene                 | Ave        | 1.744   | 1.755  | 0.9000  | 50300       | 50000        | 0.6   | 20.0   |
| 3-Nitroaniline                 | Ave        | 0.2988  | 0.3165 | 0.0100  | 53000       | 50000        | 5.9   | 20.0   |
| 3,5-di-tert-butyl-4-hydroxytol | Ave        | 0.9874  | 0.9635 | 0.0100  | 48800       | 50000        | -2.4  | 20.0   |
| Acenaphthene                   | Ave        | 1.048   | 1.010  | 0.9000  | 48200       | 50000        | -3.6  | 20.0   |
| 2,4-Dinitrophenol              | Qua        |         | 0.1476 | 0.0100  | 86600       | 100000       | -13.4 | 20.0   |
| 4-Nitrophenol                  | Ave        | 0.2471  | 0.2219 | 0.0100  | 89800       | 100000       | -10.2 | 20.0   |
| 2,4-Dinitrotoluene             | Ave        | 0.3455  | 0.3508 | 0.2000  | 50800       | 50000        | 1.5   | 20.0   |
| Dibenzofuran                   | Ave        | 1.568   | 1.563  | 0.8000  | 49800       | 50000        | -0.4  | 20.0   |
| 2,3,4,6-Tetrachlorophenol      | Ave        | 0.3159  | 0.2968 | 0.0100  | 47000       | 50000        | -6.0  | 20.0   |
| Diethyl phthalate              | Ave        | 1.232   | 1.189  | 0.0100  | 48300       | 50000        | -3.5  | 20.0   |
| 4-Chlorophenyl phenyl ether    | Ave        | 0.5676  | 0.5438 | 0.4000  | 47900       | 50000        | -4.2  | 20.0   |
| Fluorene                       | Ave        | 1.225   | 1.174  | 0.9000  | 47900       | 50000        | -4.1  | 20.0   |
| 4-Nitroaniline                 | Ave        | 0.2748  | 0.2747 | 0.0100  | 50000       | 50000        | -0.0  | 20.0   |
| 4,6-Dinitro-2-methylphenol     | Lin2       |         | 0.1330 | 0.0100  | 89400       | 100000       | -10.6 | 20.0   |
| N-Nitrosodiphenylamine         | Ave        | 0.5843  | 0.5623 | 0.0100  | 96200       | 100000       | -3.8  | 20.0   |
| 1,2-Diphenylhydrazine          | Ave        | 0.9104  | 0.9826 | 0.0100  | 54000       | 50000        | 7.9   | 20.0   |
| 4-Bromophenyl phenyl ether     | Ave        | 0.2308  | 0.2266 | 0.1000  | 49100       | 50000        | -1.8  | 20.0   |
| Hexachlorobenzene              | Ave        | 0.2816  | 0.2671 | 0.1000  | 47400       | 50000        | -5.2  | 20.0   |
| Pentachlorophenol              | Ave        | 0.1490  | 0.1375 | 0.0500  | 92300       | 100000       | -7.7  | 20.0   |
| Pentachloronitrobenzene        | Ave        | 0.1094  | 0.1034 | 0.0100  | 47200       | 50000        | -5.5  | 20.0   |
| n-Octadecane                   | Ave        | 0.7772  | 0.8207 | 0.0100  | 52800       | 50000        | 5.6   | 20.0   |
| Phenanthrene                   | Ave        | 1.143   | 1.116  | 0.7000  | 48800       | 50000        | -2.3  | 20.0   |
| Anthracene                     | Ave        | 1.161   | 1.145  | 0.7000  | 49300       | 50000        | -1.4  | 20.0   |
| Carbazole                      | Ave        | 0.996   | 0.9826 | 0.0100  | 49300       | 50000        | -1.3  | 20.0   |
| Di-n-butyl phthalate           | Ave        | 1.297   | 1.290  | 0.0100  | 49700       | 50000        | -0.5  | 20.0   |
| Fluoranthene                   | Ave        | 1.099   | 1.054  | 0.6000  | 48000       | 50000        | -4.1  | 20.0   |
| Benzidine                      | QuaF       |         | 0.5445 |         | 41500       | 50000        | -17.0 | 20.0   |
| Pyrene                         | Ave        | 1.531   | 1.528  | 0.6000  | 49900       | 50000        | -0.2  | 20.0   |
| Bisphenol-A                    | Ave        | 0.6119  | 0.5566 |         | 45500       | 50000        | -9.0  | 20.0   |
| Butyl benzyl phthalate         | Ave        | 0.6603  | 0.6943 | 0.0100  | 52600       | 50000        | 5.1   | 20.0   |
| 2,3,7,8-TCDD                   | Ave        | 0.1469  | 0.1328 | 0.0100  | 452         | 500          | -9.6  | 20.0   |
| Carbamazepine                  | Lin2       |         | 0.4766 | 0.0100  | 45200       | 50000        | -9.7  | 20.0   |
| 3,3'-Dichlorobenzidine         | Ave        | 0.4317  | 0.4376 | 0.0100  | 50700       | 50000        | 1.4   | 20.0   |
| Benzo[a]anthracene             | Ave        | 1.237   | 1.187  | 0.8000  | 47900       | 50000        | -4.1  | 20.0   |

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 460-355423/2 Calibration Date: 03/11/2016 02:45  
 Instrument ID: CBNAMS12 Calib Start Date: 03/06/2016 09:45  
 GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 03/06/2016 13:52  
 Lab File ID: L131350a.D Conc. Units: ug/L

| ANALYTE                     | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D   | MAX<br>%D |
|-----------------------------|---------------|---------|--------|---------|----------------|-----------------|------|-----------|
| Bis(2-ethylhexyl) phthalate | Ave           | 0.8776  | 0.9042 | 0.0100  | 51500          | 50000           | 3.0  | 20.0      |
| Chrysene                    | Ave           | 1.102   | 1.042  | 0.7000  | 47300          | 50000           | -5.4 | 20.0      |
| Di-n-octyl phthalate        | Ave           | 1.577   | 1.775  | 0.0100  | 56300          | 50000           | 12.6 | 20.0      |
| Benzo[b]fluoranthene        | Ave           | 1.181   | 1.212  | 0.7000  | 51300          | 50000           | 2.6  | 20.0      |
| Benzo[k]fluoranthene        | Ave           | 1.239   | 1.210  | 0.7000  | 48800          | 50000           | -2.4 | 20.0      |
| Benzo[a]pyrene              | Ave           | 1.113   | 1.143  | 0.7000  | 51400          | 50000           | 2.7  | 20.0      |
| Indeno[1,2,3-cd]pyrene      | Ave           | 1.064   | 1.079  | 0.5000  | 50700          | 50000           | 1.5  | 20.0      |
| Dibenz(a,h)anthracene       | Ave           | 1.011   | 1.035  | 0.4000  | 51200          | 50000           | 2.4  | 20.0      |
| Benzo[g,h,i]perylene        | Ave           | 1.104   | 1.050  | 0.5000  | 47500          | 50000           | -4.9 | 20.0      |
| 2-Fluorophenol (Surr)       | Ave           | 1.358   | 1.516  | 0.0100  | 55800          | 50000           | 11.7 | 20.0      |
| Phenol-d5 (Surr)            | Ave           | 1.690   | 1.820  | 0.0100  | 53800          | 50000           | 7.7  | 20.0      |
| Nitrobenzene-d5 (Surr)      | Ave           | 0.4253  | 0.4390 | 0.0100  | 51600          | 50000           | 3.2  | 20.0      |
| 2-Fluorobiphenyl            | Ave           | 1.436   | 1.440  | 0.0100  | 50100          | 50000           | 0.3  | 20.0      |
| 2,4,6-Tribromophenol (Surr) | Lin2          |         | 0.2043 | 0.0100  | 46200          | 50000           | -7.6 | 20.0      |
| Terphenyl-d14 (Surr)        | Ave           | 1.050   | 1.090  | 0.0100  | 51900          | 50000           | 3.7  | 20.0      |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131350a.D  
 Lims ID: ccvis  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 11-Mar-2016 02:45:30 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038301-002  
 Operator ID: Instrument ID: CBNAMS12  
 Sublist: chrom-8270\_12R\_9\*sub18  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 11-Mar-2016 14:15:33 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK027

First Level Reviewer: szczecha

Date: 11-Mar-2016 14:15:32

| 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  | 1.528     | 1.528         | 0.000         | 98 | 97520    | 50.0          | 50.3            |       |
| 2 N-Nitrosodimethylamine      | 74  | 1.757     | 1.757         | 0.000         | 78 | 142663   | 50.0          | 55.7            |       |
| 3 Pyridine                    | 79  | 1.787     | 1.787         | 0.000         | 80 | 247522   | 50.0          | 55.2            |       |
| \$ 4 2-Fluorophenol           | 112 | 2.916     | 2.916         | 0.000         | 92 | 251892   | 50.0          | 55.8            |       |
| \$ 6 Phenol-d5                | 99  | 3.851     | 3.851         | 0.000         | 91 | 302332   | 50.0          | 53.8            |       |
| 7 Phenol                      | 94  | 3.863     | 3.863         | 0.000         | 94 | 313344   | 50.0          | 56.1            |       |
| 8 Aniline                     | 93  | 3.875     | 3.875         | 0.000         | 97 | 356320   | 50.0          | 54.5            |       |
| 9 Bis(2-chloroethyl)ether     | 93  | 3.940     | 3.940         | 0.000         | 93 | 233366   | 50.0          | 51.7            |       |
| 10 2-Chlorophenol             | 128 | 3.999     | 3.999         | 0.000         | 92 | 234103   | 50.0          | 50.3            |       |
| 11 n-Decane                   | 43  | 4.057     | 4.057         | 0.000         | 96 | 399115   | 50.0          | 50.1            |       |
| 12 1,3-Dichlorobenzene        | 146 | 4.151     | 4.151         | 0.000         | 94 | 262830   | 50.0          | 49.9            |       |
| * 13 1,4-Dichlorobenzene-d4   | 152 | 4.204     | 4.204         | 0.000         | 97 | 132890   | 40.0          | 40.0            |       |
| 14 1,4-Dichlorobenzene        | 146 | 4.222     | 4.222         | 0.000         | 93 | 264288   | 50.0          | 51.2            |       |
| 15 Benzyl alcohol             | 108 | 4.346     | 4.346         | 0.000         | 92 | 150223   | 50.0          | 54.5            |       |
| 16 1,2-Dichlorobenzene        | 146 | 4.381     | 4.381         | 0.000         | 95 | 252257   | 50.0          | 50.8            |       |
| 17 2-Methylphenol             | 108 | 4.469     | 4.469         | 0.000         | 89 | 207261   | 50.0          | 52.0            |       |
| 18 2,2'-oxybis[1-chloropropan | 45  | 4.487     | 4.487         | 0.000         | 93 | 475058   | 50.0          | 50.4            |       |
| 22 Acetophenone               | 105 | 4.616     | 4.616         | 0.000         | 94 | 286247   | 50.0          | 51.5            |       |
| 21 N-Nitrosodi-n-propylamine  | 70  | 4.622     | 4.622         | 0.000         | 95 | 152245   | 50.0          | 52.7            |       |
| 19 4-Methylphenol             | 108 | 4.628     | 4.628         | 0.000         | 89 | 206656   | 50.0          | 49.4            |       |
| 20 3 & 4 Methylphenol         | 108 | 4.628     | 4.628         | 0.000         | 86 | 206656   | 50.0          | 49.4            |       |
| 25 Hexachloroethane           | 117 | 4.722     | 4.722         | 0.000         | 94 | 112008   | 50.0          | 49.6            |       |
| \$ 26 Nitrobenzene-d5         | 82  | 4.763     | 4.763         | 0.000         | 92 | 262707   | 50.0          | 51.6            |       |
| 27 Nitrobenzene               | 77  | 4.787     | 4.787         | 0.000         | 90 | 327495   | 50.0          | 50.3            |       |
| 28 n,n'-Dimethylaniline       | 120 | 4.793     | 4.793         | 0.000         | 92 | 314911   | 50.0          | 50.8            |       |
| 29 Isophorone                 | 82  | 5.028     | 5.028         | 0.000         | 99 | 403432   | 50.0          | 51.7            |       |
| 30 2-Nitrophenol              | 139 | 5.104     | 5.104         | 0.000         | 86 | 119004   | 50.0          | 51.1            |       |
| 31 2,4-Dimethylphenol         | 122 | 5.163     | 5.163         | 0.000         | 89 | 184212   | 50.0          | 50.4            |       |
| 32 Bis(2-chloroethoxy)methane | 93  | 5.246     | 5.246         | 0.000         | 95 | 262907   | 50.0          | 52.4            |       |
| 33 Benzoic acid               | 122 | 5.287     | 5.287         | 0.000         | 90 | 87762    | 50.0          | 41.3            |       |
| 34 2,4-Dichlorophenol         | 162 | 5.351     | 5.351         | 0.000         | 93 | 173071   | 50.0          | 49.4            |       |



| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|---------------|-----------------|-------|
| 35 1,2,4-Trichlorobenzene     | 180 | 5.434     | 5.434         | 0.000         | 94  | 193007   | 50.0          | 47.4            |       |
| * 36 Naphthalene-d8           | 136 | 5.487     | 5.487         | 0.000         | 99  | 478761   | 40.0          | 40.0            |       |
| 37 Naphthalene                | 128 | 5.510     | 5.510         | 0.000         | 99  | 611647   | 50.0          | 51.1            |       |
| 38 4-Chloroaniline            | 127 | 5.569     | 5.569         | 0.000         | 96  | 244663   | 50.0          | 49.8            |       |
| 39 Hexachlorobutadiene        | 225 | 5.645     | 5.645         | 0.000         | 94  | 114695   | 50.0          | 45.2            |       |
| 41 4-Chloro-3-methylphenol    | 107 | 6.063     | 6.063         | 0.000         | 98  | 170806   | 50.0          | 50.1            |       |
| 42 2-Methylnaphthalene        | 142 | 6.204     | 6.204         | 0.000         | 84  | 376707   | 50.0          | 48.7            |       |
| 43 1-Methylnaphthalene        | 142 | 6.298     | 6.298         | 0.000         | 93  | 327075   | 50.0          | 48.9            |       |
| 44 Hexachlorocyclopentadiene  | 237 | 6.375     | 6.375         | 0.000         | 94  | 111170   | 50.0          | 53.6            |       |
| 45 1,2,4,5-Tetrachlorobenzene | 216 | 6.375     | 6.375         | 0.000         | 96  | 167883   | 50.0          | 47.4            |       |
| 46 2-tertbutyl-4-methylphenol | 149 | 6.416     | 6.416         | 0.000         | 90  | 243487   | 50.0          | 47.2            |       |
| 48 2,4,6-Trichlorophenol      | 196 | 6.492     | 6.492         | 0.000         | 89  | 112652   | 50.0          | 49.4            |       |
| 49 2,4,5-Trichlorophenol      | 196 | 6.528     | 6.528         | 0.000         | 96  | 116364   | 50.0          | 48.0            |       |
| \$ 50 2-Fluorobiphenyl        | 172 | 6.569     | 6.569         | 0.000         | 97  | 416552   | 50.0          | 50.1            |       |
| 51 1,1'-Biphenyl              | 154 | 6.669     | 6.669         | 0.000         | 96  | 428230   | 50.0          | 49.4            |       |
| 52 2-Chloronaphthalene        | 162 | 6.687     | 6.687         | 0.000         | 97  | 339603   | 50.0          | 48.7            |       |
| 53 Phenyl ether               | 170 | 6.775     | 6.775         | 0.000         | 89  | 225141   | 50.0          | 49.8            |       |
| 54 2-Nitroaniline             | 65  | 6.787     | 6.787         | 0.000         | 97  | 134798   | 50.0          | 51.6            |       |
| 55 1,3-Dimethylnaphthalene    | 156 | 6.904     | 6.904         | 0.000         | 91  | 272112   | 50.0          | 50.2            |       |
| 58 Dimethyl phthalate         | 163 | 6.975     | 6.975         | 0.000         | 98  | 346463   | 50.0          | 48.7            |       |
| 59 Coumarin                   | 146 | 6.992     | 6.992         | 0.000         | 79  | 117700   | 50.0          | 50.2            |       |
| 60 2,6-Dinitrotoluene         | 165 | 7.028     | 7.028         | 0.000         | 93  | 83414    | 50.0          | 51.1            |       |
| 61 Acenaphthylene             | 152 | 7.092     | 7.092         | 0.000         | 97  | 507739   | 50.0          | 50.3            |       |
| 62 3-Nitroaniline             | 138 | 7.192     | 7.192         | 0.000         | 93  | 91556    | 50.0          | 53.0            |       |
| * 63 Acenaphthene-d10         | 164 | 7.234     | 7.234         | 0.000         | 93  | 231424   | 40.0          | 40.0            |       |
| 64 3,5-di-tert-butyl-4-hydrox | 205 | 7.263     | 7.263         | 0.000         | 98  | 278715   | 50.0          | 48.8            |       |
| 65 Acenaphthene               | 154 | 7.269     | 7.269         | 0.000         | 96  | 292278   | 50.0          | 48.2            |       |
| 66 2,4-Dinitrophenol          | 184 | 7.298     | 7.298         | 0.000         | 91  | 85406    | 100.0         | 86.6            |       |
| 67 4-Nitrophenol              | 65  | 7.375     | 7.375         | 0.000         | 92  | 128395   | 100.0         | 89.8            |       |
| 68 2,4-Dinitrotoluene         | 165 | 7.428     | 7.428         | 0.000         | 91  | 101476   | 50.0          | 50.8            |       |
| 69 Dibenzofuran               | 168 | 7.439     | 7.439         | 0.000         | 96  | 452050   | 50.0          | 49.8            |       |
| 70 2,3,4,6-Tetrachlorophenol  | 232 | 7.563     | 7.563         | 0.000         | 93  | 85853    | 50.0          | 47.0            |       |
| 71 Diethyl phthalate          | 149 | 7.669     | 7.669         | 0.000         | 98  | 344025   | 50.0          | 48.3            |       |
| 73 4-Chlorophenyl phenyl ethe | 204 | 7.775     | 7.775         | 0.000         | 76  | 157305   | 50.0          | 47.9            |       |
| 74 Fluorene                   | 166 | 7.775     | 7.775         | 0.000         | 93  | 339749   | 50.0          | 47.9            |       |
| 75 4-Nitroaniline             | 138 | 7.798     | 7.798         | 0.000         | 93  | 79466    | 50.0          | 50.0            |       |
| 76 4,6-Dinitro-2-methylphenol | 198 | 7.834     | 7.834         | 0.000         | 77  | 109274   | 100.0         | 89.4            |       |
| 77 N-Nitrosodiphenylamine     | 169 | 7.892     | 7.892         | 0.000         | 69  | 461854   | 100.0         | 96.2            |       |
| 78 1,2-Diphenylhydrazine      | 77  | 7.928     | 7.928         | 0.000         | 99  | 403555   | 50.0          | 54.0            |       |
| \$ 79 2,4,6-Tribromophenol    | 330 | 8.010     | 8.010         | 0.000         | 95  | 59103    | 50.0          | 46.2            |       |
| 80 4-Bromophenyl phenyl ether | 248 | 8.251     | 8.251         | 0.000         | 85  | 93063    | 50.0          | 49.1            |       |
| 81 Hexachlorobenzene          | 284 | 8.322     | 8.322         | 0.000         | 98  | 109693   | 50.0          | 47.4            |       |
| 83 Pentachlorophenol          | 266 | 8.516     | 8.516         | 0.000         | 93  | 112957   | 100.0         | 92.3            |       |
| 84 Pentachloronitrobenzene    | 237 | 8.528     | 8.528         | 0.000         | 87  | 42460    | 50.0          | 47.2            |       |
| 72 n-Octadecane               | 57  | 8.592     | 8.592         | 0.000         | 94  | 337062   | 50.0          | 52.8            |       |
| * 85 Phenanthrene-d10         | 188 | 8.686     | 8.686         | 0.000         | 99  | 328560   | 40.0          | 40.0            |       |
| 86 Phenanthrene               | 178 | 8.710     | 8.710         | 0.000         | 98  | 458483   | 50.0          | 48.8            |       |
| 87 Anthracene                 | 178 | 8.763     | 8.763         | 0.000         | 98  | 470053   | 50.0          | 49.3            |       |
| 88 Carbazole                  | 167 | 8.916     | 8.916         | 0.000         | 96  | 403553   | 50.0          | 49.3            |       |
| 89 Di-n-butyl phthalate       | 149 | 9.263     | 9.263         | 0.000         | 99  | 529785   | 50.0          | 49.7            |       |
| 90 Fluoranthene               | 202 | 9.869     | 9.869         | 0.000         | 97  | 432782   | 50.0          | 48.0            |       |
| 91 Benzidine                  | 184 | 9.998     | 9.998         | 0.000         | 100 | 223606   | 50.0          | 41.5            |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|--------------------------------|-----|-----------|---------------|---------------|-----|----------|---------------|-----------------|-------|
| 92 Pyrene                      | 202 | 10.092    | 10.092        | 0.000         | 96  | 437381   | 50.0          | 49.9            |       |
| 93 Bisphenol-A                 | 213 | 10.139    | 10.139        | 0.000         | 99  | 159294   | 50.0          | 45.5            |       |
| \$ 94 Terphenyl-d14            | 244 | 10.245    | 10.245        | 0.000         | 98  | 311817   | 50.0          | 51.9            |       |
| 95 Butyl benzyl phthalate      | 149 | 10.757    | 10.757        | 0.000         | 98  | 198683   | 50.0          | 52.6            |       |
| 96 2,3,7,8-TCDD                | 320 | 10.869    | 10.869        | 0.000         | 88  | 380      | 0.5000        | 0.4521          |       |
| 97 Carbamazepine               | 193 | 10.880    | 10.880        | 0.000         | 92  | 136381   | 50.0          | 45.2            |       |
| 98 3,3'-Dichlorobenzidine      | 252 | 11.363    | 11.363        | 0.000         | 100 | 125243   | 50.0          | 50.7            |       |
| 99 Benzo[a]anthracene          | 228 | 11.392    | 11.392        | 0.000         | 99  | 339548   | 50.0          | 47.9            |       |
| * 100 Chrysene-d12             | 240 | 11.404    | 11.404        | 0.000         | 99  | 228940   | 40.0          | 40.0            |       |
| 102 Bis(2-ethylhexyl) phthalat | 149 | 11.433    | 11.433        | 0.000         | 89  | 258750   | 50.0          | 51.5            |       |
| 101 Chrysene                   | 228 | 11.439    | 11.439        | 0.000         | 98  | 298189   | 50.0          | 47.3            |       |
| 103 Di-n-octyl phthalate       | 149 | 12.269    | 12.269        | 0.000         | 97  | 430966   | 50.0          | 56.3            |       |
| 104 Benzo[b]fluoranthene       | 252 | 12.769    | 12.769        | 0.000         | 98  | 294094   | 50.0          | 51.3            |       |
| 105 Benzo[k]fluoranthene       | 252 | 12.804    | 12.804        | 0.000         | 99  | 293697   | 50.0          | 48.8            |       |
| 106 Benzo[a]pyrene             | 252 | 13.204    | 13.204        | 0.000         | 96  | 277563   | 50.0          | 51.4            |       |
| * 107 Perylene-d12             | 264 | 13.280    | 13.280        | 0.000         | 97  | 194192   | 40.0          | 40.0            |       |
| 108 Indeno[1,2,3-cd]pyrene     | 276 | 14.704    | 14.704        | 0.000         | 99  | 262023   | 50.0          | 50.7            |       |
| 109 Dibenz(a,h)anthracene      | 278 | 14.733    | 14.733        | 0.000         | 95  | 251117   | 50.0          | 51.2            |       |
| 110 Benzo[g,h,i]perylene       | 276 | 15.051    | 15.051        | 0.000         | 96  | 254830   | 50.0          | 47.5            |       |

**Reagents:**

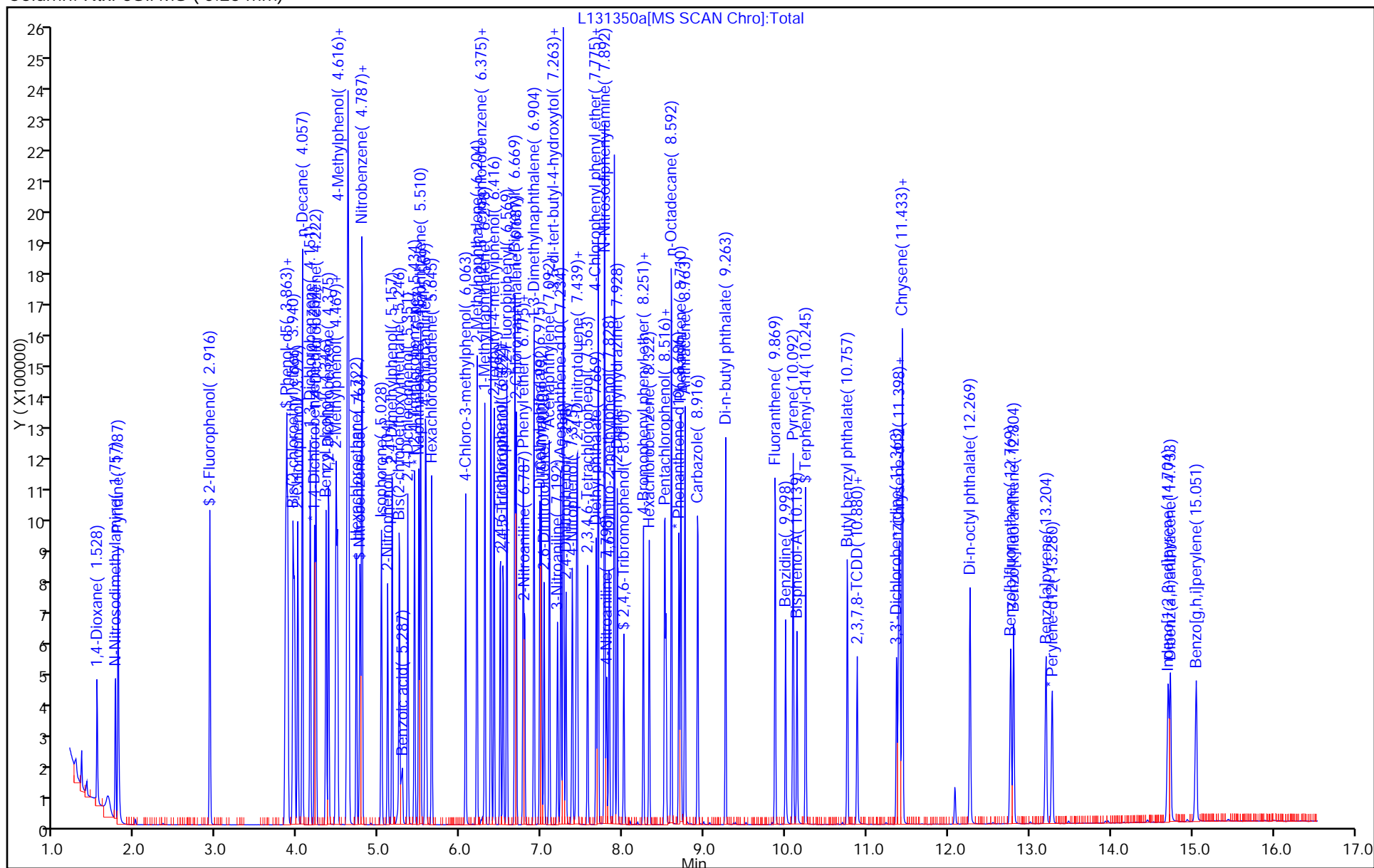
SV\_IC\_BNA\_L6\_00018

Amount Added: 1.00

Units: mL

|                 |   |                |               |
|-----------------|---|----------------|---------------|
| Data File:      | \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131350a.D |                |               |
| Injection Date: | 11-Mar-2016 02:45:30  | Instrument ID: | CBNAMS12      |
| Lims ID:        | ccvis   |                |               |
| Client ID:      |   |                |               |
| Injection Vol:  | 1.0 ul  | Dil. Factor:   | 1.0000        |
| Method:         | 8270_12R_9  | Limit Group:   | SV 8270D ICAL |
| Column:         | Rtxi-5Sil MS ( 0.25 mm)   |                |               |

ALS Bottle#: 2



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-109716-1  
SDG No.: \_\_\_\_\_  
Lab Sample ID: CCV 460-355423/3 Calibration Date: 03/11/2016 03:37  
Instrument ID: CBNAMS12 Calib Start Date: 03/06/2016 14:16  
GC Column: Rtxi-5Sil MS ID: 0.25 (mm) Calib End Date: 03/06/2016 16:43  
Lab File ID: L131351.D Conc. Units: ug/L

| ANALYTE      | CURVE<br>TYPE | AVE RRF | RRF    | MIN RRF | CALC<br>AMOUNT | SPIKE<br>AMOUNT | %D    | MAX<br>%D |
|--------------|---------------|---------|--------|---------|----------------|-----------------|-------|-----------|
| Benzaldehyde | Ave           | 1.202   | 1.343  | 0.0100  | 55800          | 50000           | 11.7  | 20.0      |
| Caprolactam  | Ave           | 0.0746  | 0.0912 | 0.0100  | 61100          | 50000           | 22.3* | 20.0      |
| Atrazine     | Ave           | 0.1947  | 0.2067 | 0.0100  | 53100          | 50000           | 6.2   | 20.0      |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131351.D  
 Lims ID: ccv  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 11-Mar-2016 03:37:30 ALS Bottle#: 3 Worklist Smp#: 3  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038301-003  
 Operator ID: Instrument ID: CBNAMS12  
 Sublist: chrom-8270\_12R\_9\*sub15  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 11-Mar-2016 14:16:02 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK027

First Level Reviewer: szczecha

Date: 11-Mar-2016 14:16:02

| Compound                    | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-----------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| 5 Benzaldehyde              | 77  | 3.757        | 3.757            | 0.000            | 93 | 209637   | 50.0             | 55.8               |       |
| * 13 1,4-Dichlorobenzene-d4 | 152 | 4.198        | 4.198            | 0.000            | 98 | 124920   | 40.0             | 40.0               |       |
| * 36 Naphthalene-d8         | 136 | 5.481        | 5.481            | 0.000            | 99 | 459747   | 40.0             | 40.0               |       |
| 40 Caprolactam              | 113 | 5.886        | 5.886            | 0.000            | 88 | 52422    | 50.0             | 61.1               |       |
| * 63 Acenaphthene-d10       | 164 | 7.233        | 7.233            | 0.000            | 94 | 228004   | 40.0             | 40.0               |       |
| 82 Atrazine                 | 200 | 8.416        | 8.416            | 0.000            | 87 | 87154    | 50.0             | 53.1               |       |
| * 85 Phenanthrene-d10       | 188 | 8.686        | 8.686            | 0.000            | 99 | 337252   | 40.0             | 40.0               |       |
| * 100 Chrysene-d12          | 240 | 11.398       | 11.398           | 0.000            | 99 | 246818   | 40.0             | 40.0               |       |
| * 107 Perylene-d12          | 264 | 13.274       | 13.274           | 0.000            | 98 | 195200   | 40.0             | 40.0               |       |

**Reagents:**

SV\_IC-S\_L6\_00017

Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131351.D

Injection Date: 11-Mar-2016 03:37:30

Instrument ID: CBNAMS12

Operator ID:

Lims ID: ccv

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

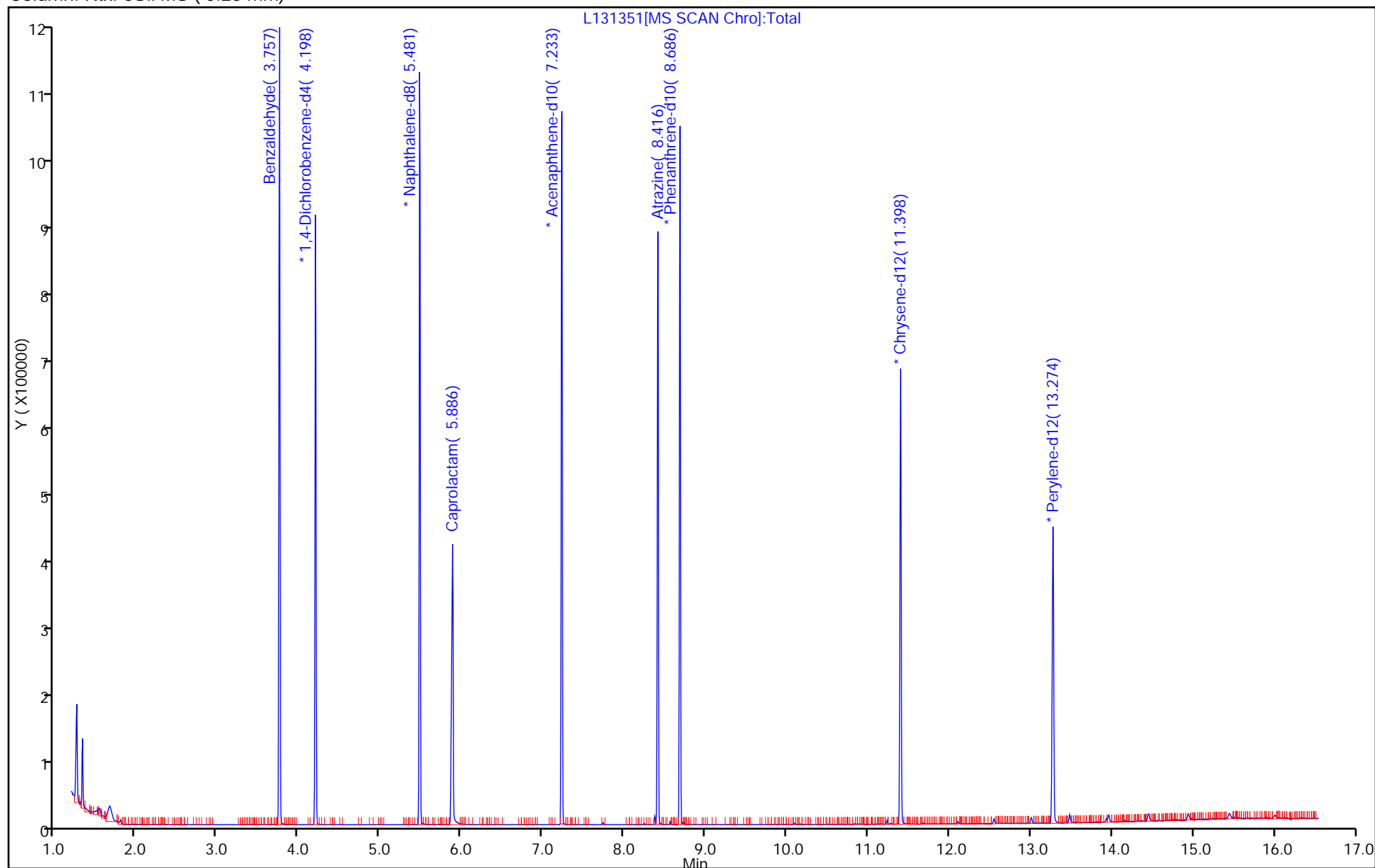
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8270\_12R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS ( 0.25 mm)



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41459.D  
 Lims ID: dftpp  
 Client ID:  
 Sample Type: DFTPP  
 Inject. Date: 09-Mar-2016 08:12:30 ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038164-001  
 Misc. Info.: DFTPP  
 Operator ID: Instrument ID: CBNAMS11  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 09-Mar-2016 15:38:15 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK028

First Level Reviewer: szczech

Date: 09-Mar-2016 15:38:15

| Compound               | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| 30 Pentachlorophenol_T | 266 | 5.340        | 5.340            | 0.000            | 93 | 22486    | NR               | NR                 |       |
| 56 Benzidine_T         | 184 | 7.175        | 7.175            | 0.000            | 99 | 211255   | NR               | NR                 |       |
| 124 DFTPP              |     |              |                  |                  |    |          |                  |                    |       |
| 126 4,4'-DDD           | 235 | 7.834        | 7.834            | 0.000            | 95 | 3480     |                  | NR                 | M     |
| 127 4,4'-DDT           | 235 | 8.157        | 8.157            | 0.000            | 98 | 89289    | NR               | NR                 |       |

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

**Reagents:**

SMDFTP\_CH\_00015

Amount Added: 1.00

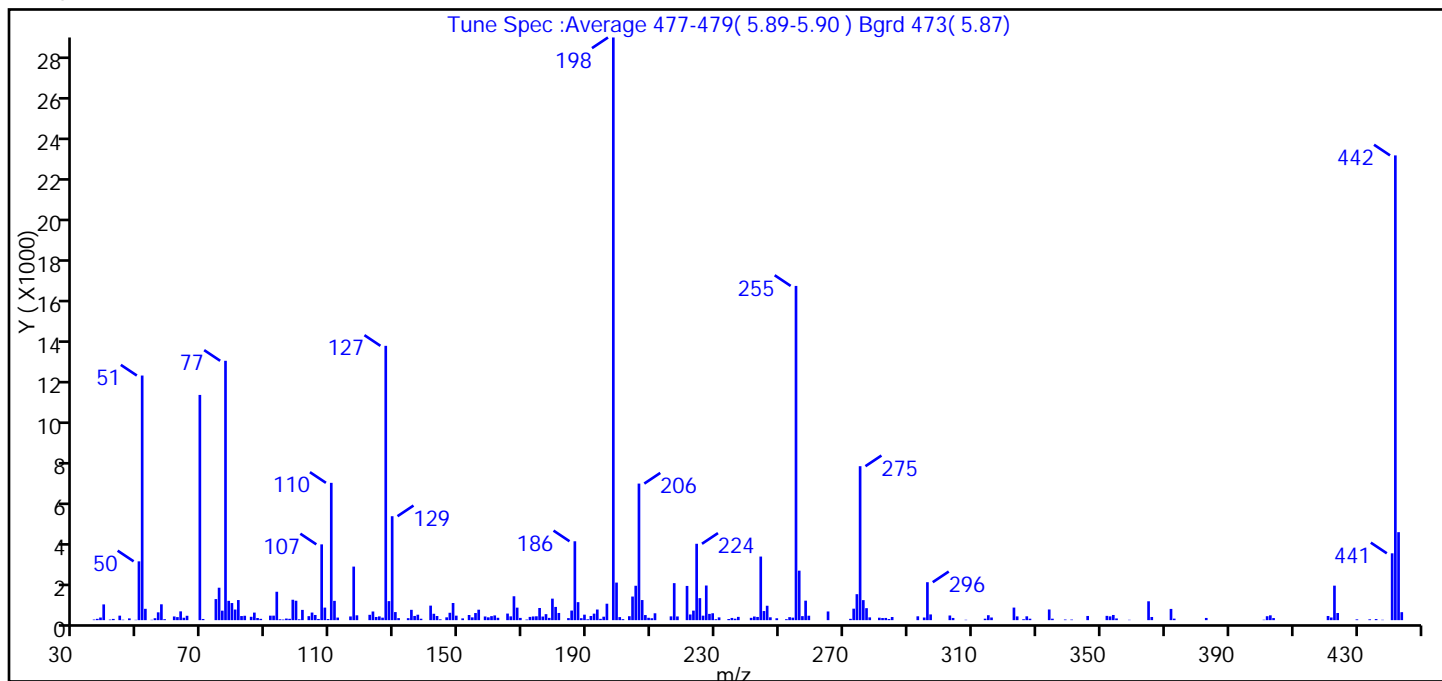
Units: mL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41459.D  
Injection Date: 09-Mar-2016 08:12:30 Instrument ID: CBNAMS11  
Lims ID: dftpp  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_11R\_9  
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                 | 42.0                 |
| 68  | <2% of mass 69                     | 0.0 (0.0)            |
| 69  | Present                            | 38.7                 |
| 70  | <2% of mass 69                     | 0.2 (0.5)            |
| 127 | 40-60% of mass 198                 | 47.1                 |
| 197 | <1% of mass 198                    | 0.0                  |
| 199 | 5-9% of mass 198                   | 6.4                  |
| 275 | 10-30% of mass 198                 | 26.4                 |
| 365 | >1% of mass 198                    | 3.2                  |
| 441 | Present but less than mass 443     | 11.5 (76.0)          |
| 442 | >40% of mass 198                   | 79.8                 |
| 443 | 17-23% of mass 442                 | 15.1 (18.9)          |



Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41459.D\8270\_11R\_9.rsl\spectra.d  
Injection Date: 09-Mar-2016 08:12:30  
Spectrum: Tune Spec :Average 477-479( 5.89-5.90 ) Bgrd 473( 5.87)  
Base Peak: 198.00  
Minimum % Base Peak: 0  
Number of Points: 231

| m/z   | Y     | m/z    | Y     | m/z    | Y     | m/z    | Y    |
|-------|-------|--------|-------|--------|-------|--------|------|
| 36.00 | 30    | 111.00 | 955   | 188.00 | 96    | 273.00 | 568  |
| 37.00 | 65    | 112.00 | 127   | 189.00 | 271   | 274.00 | 1286 |
| 38.00 | 129   | 116.00 | 183   | 190.00 | 42    | 275.00 | 7624 |
| 39.00 | 780   | 117.00 | 2652  | 191.00 | 205   | 276.00 | 991  |
| 41.00 | 28    | 118.00 | 239   | 192.00 | 322   | 277.00 | 593  |
| 42.00 | 61    | 122.00 | 264   | 193.00 | 526   | 278.00 | 137  |
| 44.00 | 222   | 123.00 | 428   | 194.00 | 65    | 281.00 | 121  |
| 45.00 | 22    | 124.00 | 157   | 195.00 | 171   | 282.00 | 105  |
| 47.00 | 87    | 125.00 | 186   | 196.00 | 814   | 283.00 | 109  |
| 49.00 | 15    | 126.00 | 123   | 198.00 | 28856 | 284.00 | 55   |
| 50.00 | 2912  | 127.00 | 13585 | 199.00 | 1860  | 285.00 | 155  |
| 51.00 | 12114 | 128.00 | 942   | 200.00 | 151   | 293.00 | 191  |
| 52.00 | 561   | 129.00 | 5147  | 201.00 | 49    | 295.00 | 130  |
| 54.00 | 17    | 130.00 | 400   | 203.00 | 195   | 296.00 | 1879 |
| 55.00 | 95    | 131.00 | 101   | 204.00 | 1169  | 297.00 | 283  |
| 56.00 | 387   | 134.00 | 98    | 205.00 | 1703  | 303.00 | 230  |
| 57.00 | 785   | 135.00 | 511   | 206.00 | 6763  | 304.00 | 109  |
| 58.00 | 47    | 136.00 | 208   | 207.00 | 995   | 308.00 | 18   |
| 61.00 | 183   | 137.00 | 269   | 208.00 | 252   | 314.00 | 72   |
| 62.00 | 150   | 138.00 | 70    | 209.00 | 117   | 315.00 | 244  |
| 63.00 | 435   | 141.00 | 719   | 210.00 | 94    | 316.00 | 131  |
| 64.00 | 119   | 142.00 | 316   | 211.00 | 340   | 323.00 | 622  |
| 65.00 | 216   | 143.00 | 205   | 216.00 | 187   | 324.00 | 186  |
| 69.00 | 11154 | 144.00 | 41    | 217.00 | 1832  | 326.00 | 45   |
| 70.00 | 58    | 146.00 | 139   | 218.00 | 183   | 327.00 | 190  |
| 74.00 | 1043  | 147.00 | 365   | 221.00 | 1694  | 328.00 | 71   |
| 75.00 | 1606  | 148.00 | 849   | 222.00 | 281   | 334.00 | 528  |
| 76.00 | 469   | 149.00 | 222   | 223.00 | 471   | 335.00 | 72   |
| 77.00 | 12844 | 151.00 | 87    | 224.00 | 3782  | 339.00 | 31   |
| 78.00 | 957   | 153.00 | 255   | 225.00 | 1090  | 341.00 | 28   |
| 79.00 | 847   | 154.00 | 138   | 226.00 | 222   | 346.00 | 207  |
| 80.00 | 525   | 155.00 | 352   | 227.00 | 1715  | 352.00 | 212  |
| 81.00 | 995   | 156.00 | 517   | 228.00 | 310   | 353.00 | 187  |

Report Date: 09-Mar-2016 15:38:17

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

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41459.D\8270\_11R\_9.rsl\spectra.d

Injection Date: 09-Mar-2016 08:12:30

Spectrum: Tune Spec :Average 477-479( 5.89-5.90 ) Bgrd 473( 5.87)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 231

| m/z    | Y    | m/z    | Y    | m/z    | Y     | m/z    | Y     |
|--------|------|--------|------|--------|-------|--------|-------|
| 82.00  | 203  | 158.00 | 182  | 229.00 | 341   | 354.00 | 256   |
| 83.00  | 217  | 159.00 | 139  | 230.00 | 45    | 355.00 | 84    |
| 85.00  | 166  | 160.00 | 198  | 231.00 | 137   | 359.00 | 17    |
| 86.00  | 374  | 161.00 | 234  | 234.00 | 55    | 365.00 | 934   |
| 87.00  | 106  | 162.00 | 118  | 235.00 | 109   | 366.00 | 156   |
| 88.00  | 65   | 165.00 | 326  | 236.00 | 72    | 372.00 | 556   |
| 91.00  | 222  | 166.00 | 187  | 237.00 | 162   | 373.00 | 74    |
| 92.00  | 223  | 167.00 | 1183 | 241.00 | 114   | 383.00 | 109   |
| 93.00  | 1406 | 168.00 | 619  | 242.00 | 180   | 401.00 | 21    |
| 94.00  | 42   | 169.00 | 111  | 243.00 | 158   | 402.00 | 195   |
| 95.00  | 29   | 171.00 | 29   | 244.00 | 3149  | 403.00 | 239   |
| 96.00  | 79   | 172.00 | 161  | 245.00 | 451   | 404.00 | 103   |
| 97.00  | 66   | 173.00 | 183  | 246.00 | 713   | 421.00 | 206   |
| 98.00  | 1010 | 174.00 | 191  | 247.00 | 141   | 422.00 | 131   |
| 99.00  | 961  | 175.00 | 602  | 249.00 | 93    | 423.00 | 1708  |
| 100.00 | 42   | 176.00 | 179  | 252.00 | 47    | 424.00 | 354   |
| 101.00 | 508  | 177.00 | 297  | 253.00 | 148   | 430.00 | 39    |
| 103.00 | 198  | 178.00 | 112  | 254.00 | 124   | 434.00 | 41    |
| 104.00 | 376  | 179.00 | 1065 | 255.00 | 16552 | 436.00 | 53    |
| 105.00 | 256  | 180.00 | 655  | 256.00 | 2451  | 438.00 | 18    |
| 106.00 | 59   | 181.00 | 356  | 257.00 | 199   | 441.00 | 3310  |
| 107.00 | 3753 | 184.00 | 101  | 258.00 | 965   | 442.00 | 23016 |
| 108.00 | 621  | 185.00 | 475  | 259.00 | 219   | 443.00 | 4357  |
| 109.00 | 54   | 186.00 | 3906 | 265.00 | 430   | 444.00 | 395   |
| 110.00 | 6800 | 187.00 | 891  | 272.00 | 65    |        |       |

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41459.D  
Injection Date: 09-Mar-2016 08:12:30 Instrument ID: CBNAMS11  
Lims ID: dftpp  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_11R\_9

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

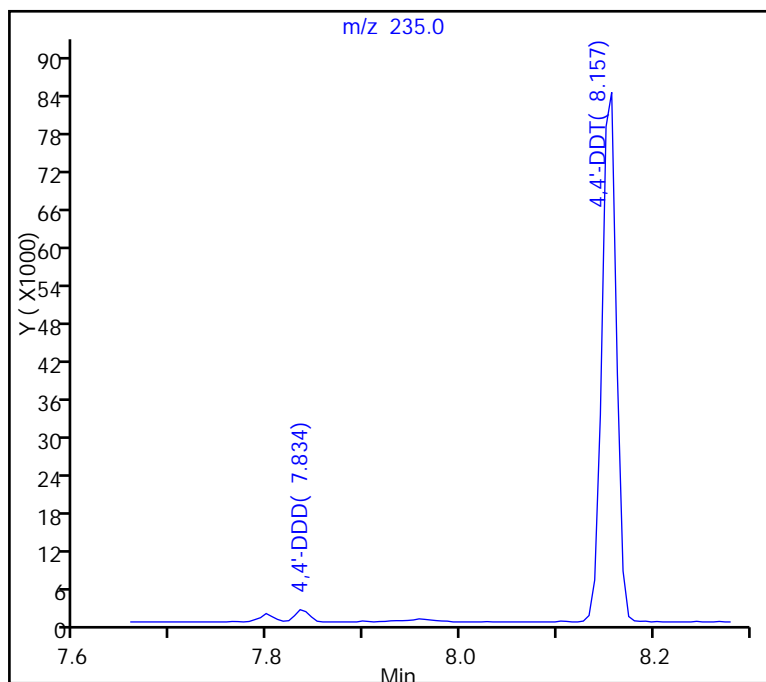
%Breakdown =  
(Area Breakdown Cpnds/  
Total Area Breakdown Cpnds) \* 100

127 4,4'-DDT, Area = 89289

126 4,4'-DDD, Area = 3480

125 4,4'-DDE, Area = 0

%Breakdown: 3.75%, Max Limit: 20.00%  
Passed



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41459.D  
Injection Date: 09-Mar-2016 08:12:30 Instrument ID: CBNAMS11  
Lims ID: dftpp  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_11R\_9

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

56 Benzidine\_T, Detector: MS SCAN

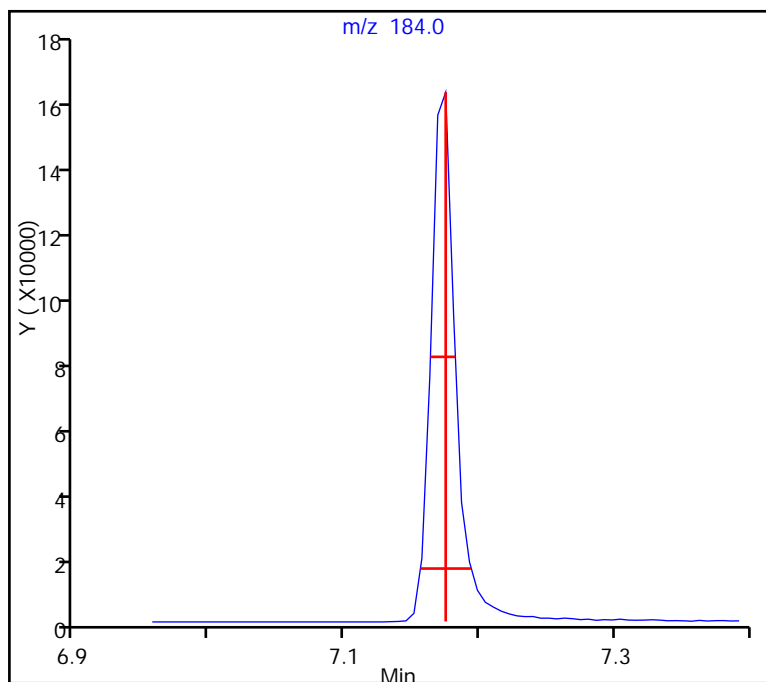
Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.019 (min.)

Front Width = 0.019 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00  
Passed

-----



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41459.D  
Injection Date: 09-Mar-2016 08:12:30 Instrument ID: CBNAMS11  
Lims ID: dftpp  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_11R\_9

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

30 Pentachlorophenol\_T, Detector: MS SCAN

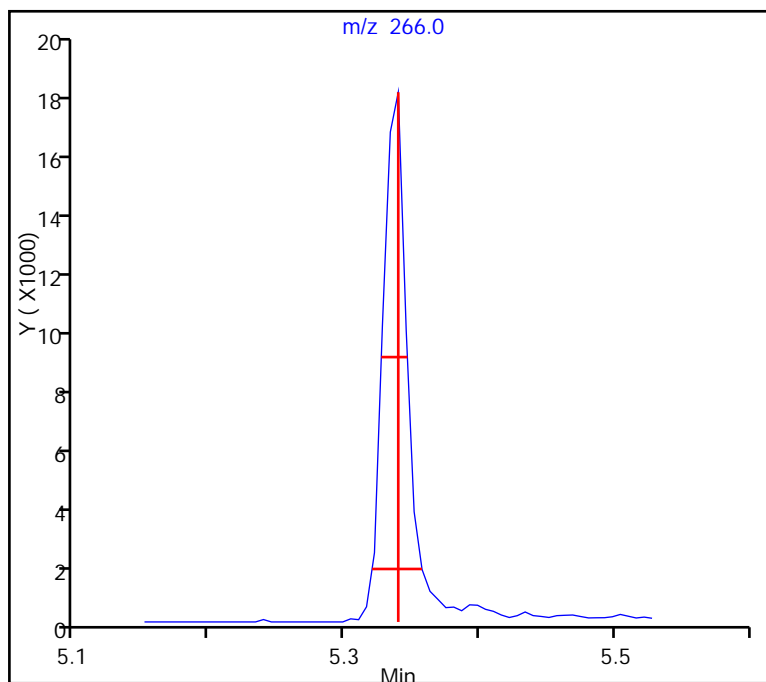
Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.018 (min.)

Front Width = 0.019 (min.)

Tailing Factor = 0.9, Max. Tailing < 2.00  
Passed

-----



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160310-38294.b\z41542.D  
 Lims ID: dftpp  
 Client ID:  
 Sample Type: DFTPP  
 Inject. Date: 10-Mar-2016 19:18:30 ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038294-001  
 Misc. Info.: DFTPP  
 Operator ID: Instrument ID: CBNAMS11  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160310-38294.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 11-Mar-2016 13:21:27 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK027

First Level Reviewer: szczecha

Date: 11-Mar-2016 13:21:27

| Compound               | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| 30 Pentachlorophenol_T | 266 | 5.340        | 5.340            | 0.000            | 92 | 28729    | NR               | NR                 |       |
| 56 Benzidine_T         | 184 | 7.169        | 7.169            | 0.000            | 99 | 187205   | NR               | NR                 |       |
| 124 DFTPP              |     |              |                  |                  |    |          |                  |                    |       |
| 125 4,4'-DDE           | 246 | 7.392        | 7.392            | 0.000            | 1  | 178      |                  | NR                 |       |
| 126 4,4'-DDD           | 235 | 7.792        | 7.792            | 0.000            | 93 | 5958     |                  | NR                 | M     |
| 127 4,4'-DDT           | 235 | 8.145        | 8.145            | 0.000            | 98 | 80081    | NR               | NR                 |       |

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

**Reagents:**

SMDFTP\_CH\_00015

Amount Added: 1.00

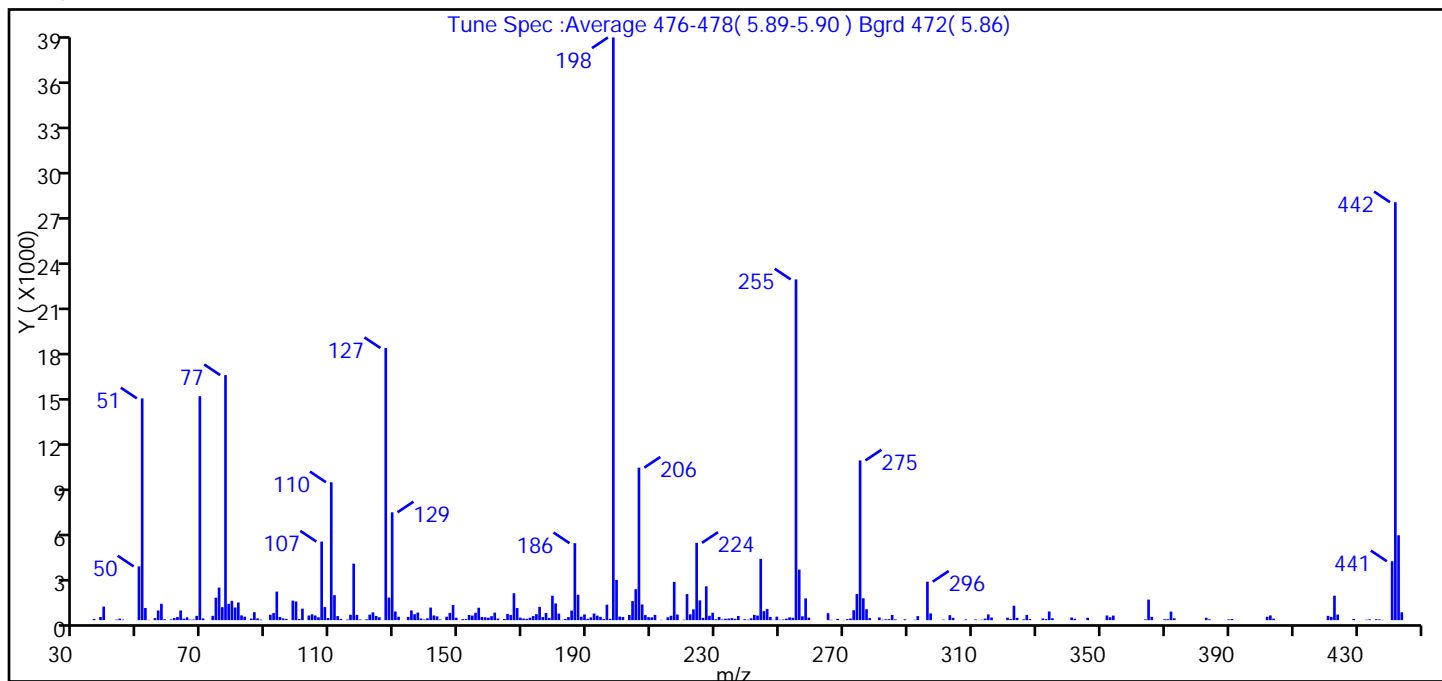
Units: mL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160310-38294.b\z41542.D  
Injection Date: 10-Mar-2016 19:18:30 Instrument ID: CBNAMS11  
Lims ID: dftpp  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_11R\_9  
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                 | 38.1                 |
| 68  | <2% of mass 69                     | 0.7 (1.9)            |
| 69  | Present                            | 38.4                 |
| 70  | <2% of mass 69                     | 0.3 (0.8)            |
| 127 | 40-60% of mass 198                 | 46.7                 |
| 197 | <1% of mass 198                    | 0.2                  |
| 199 | 5-9% of mass 198                   | 6.9                  |
| 275 | 10-30% of mass 198                 | 27.4                 |
| 365 | >1% of mass 198                    | 3.5                  |
| 441 | Present but less than mass 443     | 10.1 (69.4)          |
| 442 | >40% of mass 198                   | 71.7                 |
| 443 | 17-23% of mass 442                 | 14.6 (20.3)          |

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160310-38294.b\z41542.D\8270\_11R\_9.rsl\spectra.d  
Injection Date: 10-Mar-2016 19:18:30  
Spectrum: Tune Spec :Average 476-478( 5.89-5.90 ) Bgrd 472( 5.86)  
Base Peak: 198.00  
Minimum % Base Peak: 0  
Number of Points: 272

| m/z   | Y     | m/z    | Y     | m/z    | Y     | m/z    | Y    |
|-------|-------|--------|-------|--------|-------|--------|------|
| 36.00 | 80    | 123.00 | 520   | 196.00 | 1031  | 276.00 | 1454 |
| 38.00 | 208   | 124.00 | 280   | 197.00 | 93    | 277.00 | 727  |
| 39.00 | 902   | 125.00 | 191   | 198.00 | 38768 | 278.00 | 136  |
| 43.00 | 35    | 127.00 | 18104 | 199.00 | 2675  | 281.00 | 178  |
| 44.00 | 100   | 128.00 | 1500  | 200.00 | 236   | 282.00 | 29   |
| 45.00 | 32    | 129.00 | 7175  | 201.00 | 212   | 283.00 | 56   |
| 50.00 | 3577  | 130.00 | 576   | 203.00 | 345   | 284.00 | 64   |
| 51.00 | 14756 | 131.00 | 225   | 204.00 | 1268  | 285.00 | 346  |
| 52.00 | 810   | 134.00 | 217   | 205.00 | 2061  | 286.00 | 51   |
| 53.00 | 18    | 135.00 | 645   | 206.00 | 10147 | 289.00 | 57   |
| 55.00 | 133   | 136.00 | 397   | 207.00 | 1045  | 292.00 | 24   |
| 56.00 | 641   | 137.00 | 503   | 208.00 | 337   | 293.00 | 268  |
| 57.00 | 1089  | 138.00 | 108   | 209.00 | 201   | 296.00 | 2560 |
| 58.00 | 61    | 139.00 | 44    | 210.00 | 186   | 297.00 | 450  |
| 60.00 | 51    | 140.00 | 119   | 211.00 | 348   | 301.00 | 35   |
| 61.00 | 144   | 141.00 | 836   | 213.00 | 20    | 303.00 | 332  |
| 62.00 | 207   | 142.00 | 312   | 215.00 | 189   | 304.00 | 154  |
| 63.00 | 645   | 143.00 | 253   | 216.00 | 292   | 308.00 | 50   |
| 64.00 | 101   | 144.00 | 45    | 217.00 | 2543  | 311.00 | 44   |
| 65.00 | 187   | 146.00 | 229   | 218.00 | 374   | 313.00 | 28   |
| 66.00 | 39    | 147.00 | 482   | 220.00 | 32    | 314.00 | 103  |
| 67.00 | 41    | 148.00 | 1003  | 221.00 | 1735  | 315.00 | 381  |
| 68.00 | 285   | 149.00 | 164   | 222.00 | 388   | 316.00 | 176  |
| 69.00 | 14901 | 150.00 | 4     | 223.00 | 719   | 321.00 | 163  |
| 70.00 | 114   | 151.00 | 65    | 224.00 | 5142  | 322.00 | 67   |
| 73.00 | 285   | 152.00 | 69    | 225.00 | 1318  | 323.00 | 961  |
| 74.00 | 1494  | 153.00 | 344   | 226.00 | 148   | 324.00 | 153  |
| 75.00 | 2167  | 154.00 | 305   | 227.00 | 2252  | 326.00 | 55   |
| 76.00 | 864   | 155.00 | 489   | 228.00 | 289   | 327.00 | 345  |
| 77.00 | 16304 | 156.00 | 828   | 229.00 | 494   | 328.00 | 67   |
| 78.00 | 1085  | 157.00 | 210   | 230.00 | 64    | 332.00 | 113  |
| 79.00 | 1284  | 158.00 | 192   | 231.00 | 213   | 333.00 | 69   |
| 80.00 | 842   | 159.00 | 166   | 232.00 | 42    | 334.00 | 578  |



| m/z    | Y    | m/z    | Y    | m/z    | Y     | m/z    | Y     |
|--------|------|--------|------|--------|-------|--------|-------|
| 81.00  | 1173 | 160.00 | 265  | 233.00 | 94    | 335.00 | 126   |
| 82.00  | 316  | 161.00 | 499  | 234.00 | 106   | 341.00 | 172   |
| 83.00  | 232  | 162.00 | 108  | 235.00 | 134   | 342.00 | 95    |
| 85.00  | 108  | 164.00 | 76   | 236.00 | 86    | 346.00 | 160   |
| 86.00  | 532  | 165.00 | 417  | 237.00 | 276   | 352.00 | 309   |
| 87.00  | 111  | 166.00 | 346  | 239.00 | 60    | 353.00 | 194   |
| 88.00  | 38   | 167.00 | 1789 | 240.00 | 30    | 354.00 | 303   |
| 91.00  | 358  | 168.00 | 805  | 241.00 | 123   | 364.00 | 50    |
| 92.00  | 472  | 169.00 | 165  | 242.00 | 350   | 365.00 | 1367  |
| 93.00  | 1898 | 170.00 | 108  | 243.00 | 304   | 366.00 | 222   |
| 94.00  | 213  | 171.00 | 84   | 244.00 | 4080  | 370.00 | 61    |
| 95.00  | 116  | 172.00 | 164  | 245.00 | 601   | 371.00 | 67    |
| 96.00  | 72   | 173.00 | 271  | 246.00 | 746   | 372.00 | 568   |
| 98.00  | 1302 | 174.00 | 398  | 247.00 | 213   | 373.00 | 124   |
| 99.00  | 1244 | 175.00 | 884  | 248.00 | 20    | 383.00 | 156   |
| 100.00 | 77   | 176.00 | 204  | 249.00 | 235   | 384.00 | 53    |
| 101.00 | 767  | 177.00 | 479  | 250.00 | 28    | 390.00 | 50    |
| 103.00 | 306  | 178.00 | 153  | 251.00 | 42    | 391.00 | 76    |
| 104.00 | 387  | 179.00 | 1626 | 252.00 | 101   | 402.00 | 224   |
| 105.00 | 310  | 180.00 | 1113 | 253.00 | 186   | 403.00 | 315   |
| 106.00 | 190  | 181.00 | 436  | 254.00 | 160   | 404.00 | 101   |
| 107.00 | 5229 | 182.00 | 19   | 255.00 | 22672 | 421.00 | 284   |
| 108.00 | 872  | 183.00 | 77   | 256.00 | 3363  | 422.00 | 218   |
| 109.00 | 144  | 184.00 | 202  | 257.00 | 256   | 423.00 | 1624  |
| 110.00 | 9176 | 185.00 | 636  | 258.00 | 1449  | 424.00 | 372   |
| 111.00 | 1663 | 186.00 | 5120 | 259.00 | 169   | 429.00 | 75    |
| 112.00 | 269  | 187.00 | 1691 | 265.00 | 466   | 433.00 | 28    |
| 113.00 | 79   | 188.00 | 227  | 266.00 | 22    | 434.00 | 55    |
| 115.00 | 40   | 189.00 | 377  | 268.00 | 87    | 436.00 | 61    |
| 116.00 | 357  | 190.00 | 90   | 270.00 | 17    | 437.00 | 50    |
| 117.00 | 3759 | 191.00 | 188  | 271.00 | 65    | 438.00 | 21    |
| 118.00 | 351  | 192.00 | 442  | 272.00 | 107   | 441.00 | 3920  |
| 119.00 | 43   | 193.00 | 301  | 273.00 | 660   | 442.00 | 27808 |
| 121.00 | 57   | 194.00 | 215  | 274.00 | 1738  | 443.00 | 5648  |

Report Date: 11-Mar-2016 13:21:29

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

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160310-38294.b\z41542.D\8270\_11R\_9.rsl\spectra.d

Injection Date: 10-Mar-2016 19:18:30

Spectrum: Tune Spec :Average 476-478( 5.89-5.90 ) Bgrd 472( 5.86)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 272

| m/z    | Y   | m/z    | Y  | m/z    | Y     | m/z    | Y   |
|--------|-----|--------|----|--------|-------|--------|-----|
| 122.00 | 368 | 195.00 | 70 | 275.00 | 10627 | 444.00 | 523 |

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160310-38294.b\z41542.D  
Injection Date: 10-Mar-2016 19:18:30 Instrument ID: CBNAMS11  
Lims ID: dftpp  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_11R\_9

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

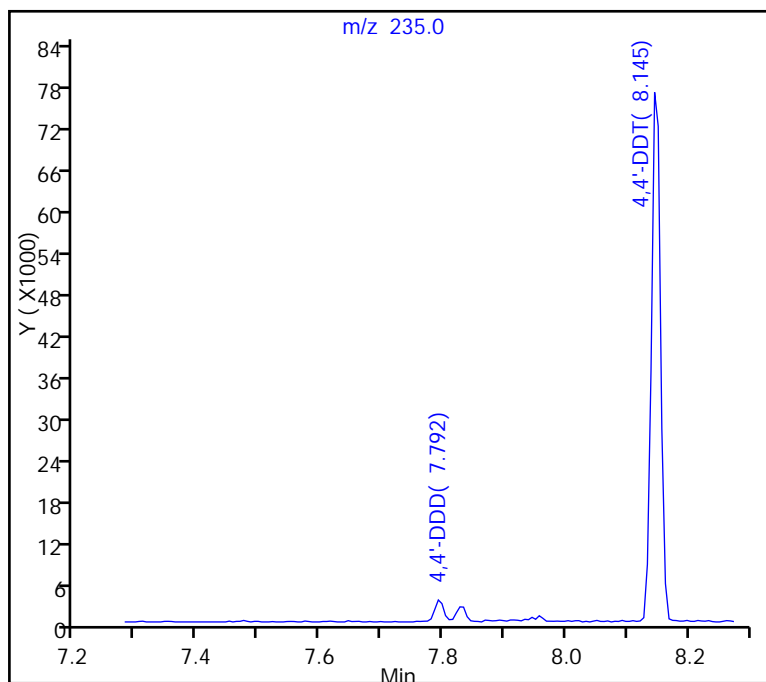
%Breakdown =  
(Area Breakdown Cpnds/  
Total Area Breakdown Cpnds) \* 100

127 4,4'-DDT, Area = 80081

126 4,4'-DDD, Area = 5958

125 4,4'-DDE, Area = 178

%Breakdown: 7.12%, Max Limit: 20.00%  
Passed



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160310-38294.b\z41542.D  
Injection Date: 10-Mar-2016 19:18:30 Instrument ID: CBNAMS11  
Lims ID: dftpp  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_11R\_9

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

56 Benzidine\_T, Detector: MS SCAN

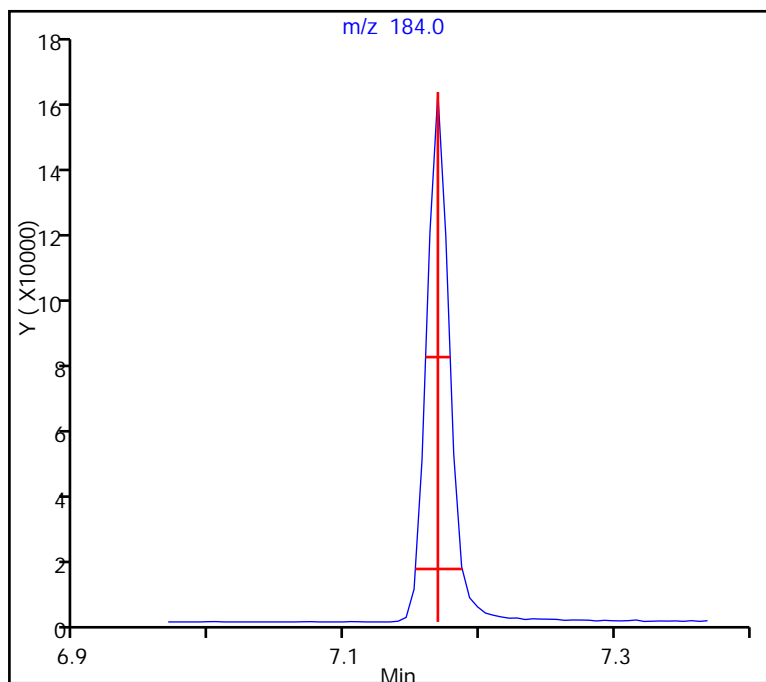
Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.018 (min.)

Front Width = 0.017 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00  
Passed

-----



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160310-38294.b\z41542.D

Injection Date: 10-Mar-2016 19:18:30

Instrument ID: CBNAMS11

Lims ID: dftpp

Client ID:

Operator ID:

ALS Bottle#: 1 Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8270\_11R\_9

Limit Group: SV 8270D ICAL

30 Pentachlorophenol\_T, Detector: MS SCAN

Peak Tailing Factor =

BackWidth/FrontWidth @ 10% Peak Height

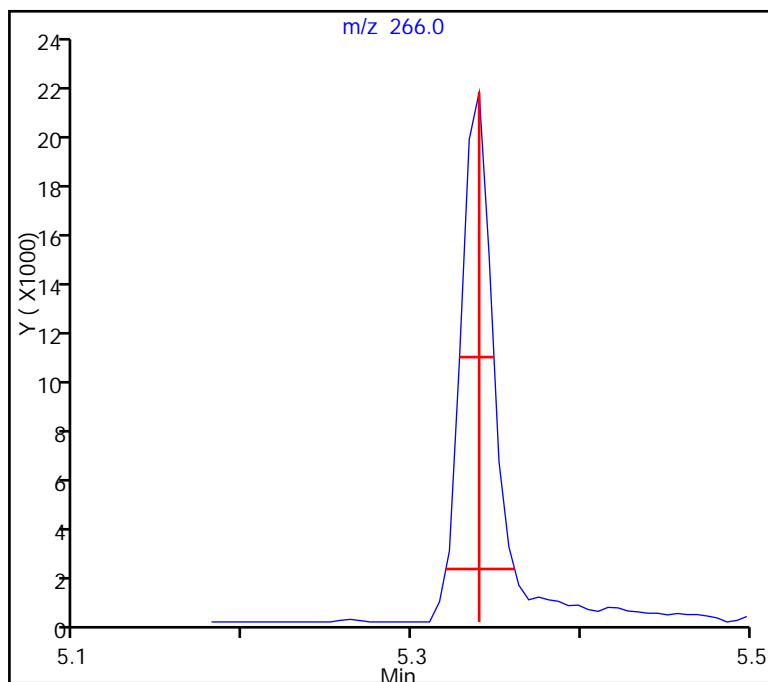
Back Width = 0.021 (min.)

Front Width = 0.020 (min.)

Tailing Factor = 1.1, Max. Tailing &lt; 2.00

Passed

-----



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160311-38326.b\z41573.D  
 Lims ID: dftpp  
 Client ID:  
 Sample Type: DFTPP  
 Inject. Date: 11-Mar-2016 07:54:30 ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038326-001  
 Misc. Info.: DFTPP  
 Operator ID: Instrument ID: CBNAMS11  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160311-38326.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 11-Mar-2016 13:42:11 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK027

First Level Reviewer: szczecha

Date: 11-Mar-2016 13:42:11

| Compound               | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| 30 Pentachlorophenol_T | 266 | 5.275        | 5.275            | 0.000            | 92 | 30104    | NR               | NR                 |       |
| 56 Benzidine_T         | 184 | 7.092        | 7.092            | 0.000            | 99 | 166871   | NR               | NR                 |       |
| 124 DFTPP              |     |              |                  |                  |    |          |                  |                    |       |
| 126 4,4'-DDD           | 235 | 7.716        | 7.716            | 0.000            | 94 | 7529     |                  | NR                 | M     |
| 127 4,4'-DDT           | 235 | 8.069        | 8.069            | 0.000            | 98 | 58431    | NR               | NR                 |       |

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

**Reagents:**

SMDFTP\_CH\_00015

Amount Added: 1.00

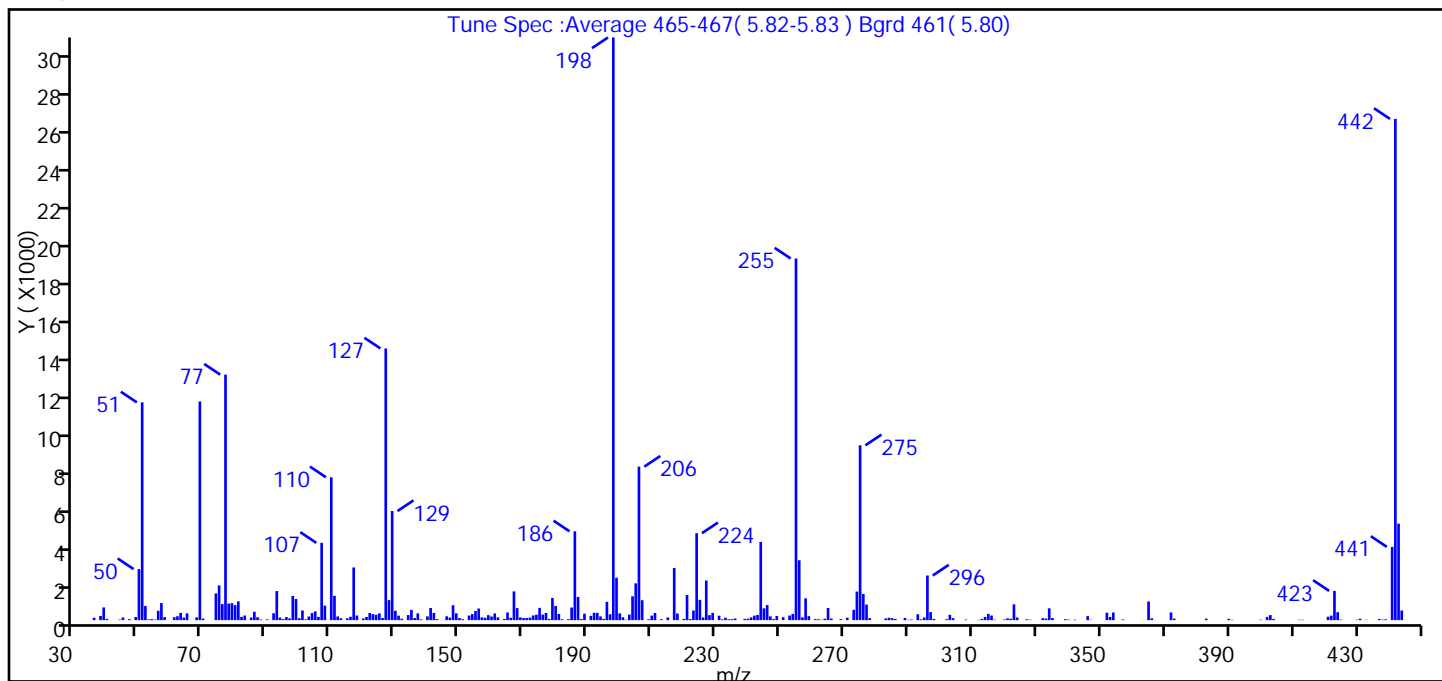
Units: mL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160311-38326.b\z41573.D  
Injection Date: 11-Mar-2016 07:54:30 Instrument ID: CBNAMS11  
Lims ID: dftpp  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_11R\_9  
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                 | 37.4                 |
| 68  | <2% of mass 69                     | 0.5 (1.3)            |
| 69  | Present                            | 37.5                 |
| 70  | <2% of mass 69                     | 0.3 (0.7)            |
| 127 | 40-60% of mass 198                 | 46.6                 |
| 197 | <1% of mass 198                    | 1.0                  |
| 199 | 5-9% of mass 198                   | 7.3                  |
| 275 | 10-30% of mass 198                 | 30.0                 |
| 365 | >1% of mass 198                    | 3.2                  |
| 441 | Present but less than mass 443     | 12.6 (75.9)          |
| 442 | >40% of mass 198                   | 86.0                 |
| 443 | 17-23% of mass 442                 | 16.6 (19.2)          |

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160311-38326.b\z41573.D\8270\_11R\_9.rsl\spectra.d  
Injection Date: 11-Mar-2016 07:54:30  
Spectrum: Tune Spec :Average 465-467( 5.82-5.83 ) Bgrd 461( 5.80)  
Base Peak: 198.00  
Minimum % Base Peak: 0  
Number of Points: 276

| m/z   | Y     | m/z    | Y     | m/z    | Y    | m/z    | Y    |
|-------|-------|--------|-------|--------|------|--------|------|
| 36.00 | 128   | 123.00 | 319   | 199.00 | 2252 | 286.00 | 61   |
| 38.00 | 223   | 124.00 | 286   | 200.00 | 359  | 289.00 | 115  |
| 39.00 | 676   | 125.00 | 358   | 201.00 | 152  | 290.00 | 17   |
| 40.00 | 66    | 126.00 | 114   | 202.00 | 23   | 291.00 | 31   |
| 44.00 | 29    | 127.00 | 14436 | 203.00 | 294  | 293.00 | 315  |
| 45.00 | 141   | 128.00 | 1065  | 204.00 | 1267 | 294.00 | 46   |
| 47.00 | 54    | 129.00 | 5797  | 205.00 | 1956 | 295.00 | 142  |
| 49.00 | 168   | 130.00 | 499   | 206.00 | 8156 | 296.00 | 2372 |
| 50.00 | 2711  | 131.00 | 236   | 207.00 | 1059 | 297.00 | 427  |
| 51.00 | 11571 | 132.00 | 76    | 209.00 | 49   | 298.00 | 65   |
| 52.00 | 753   | 134.00 | 270   | 210.00 | 240  | 302.00 | 50   |
| 53.00 | 39    | 135.00 | 547   | 211.00 | 383  | 303.00 | 283  |
| 54.00 | 56    | 136.00 | 112   | 213.00 | 50   | 304.00 | 104  |
| 55.00 | 29    | 137.00 | 358   | 215.00 | 144  | 308.00 | 32   |
| 56.00 | 499   | 138.00 | 40    | 217.00 | 2768 | 312.00 | 19   |
| 57.00 | 907   | 140.00 | 202   | 218.00 | 352  | 313.00 | 66   |
| 58.00 | 165   | 141.00 | 646   | 219.00 | 1    | 314.00 | 170  |
| 59.00 | 2     | 142.00 | 384   | 220.00 | 67   | 315.00 | 334  |
| 61.00 | 157   | 143.00 | 54    | 221.00 | 1335 | 316.00 | 243  |
| 62.00 | 207   | 145.00 | 10    | 222.00 | 59   | 317.00 | 26   |
| 63.00 | 384   | 146.00 | 205   | 223.00 | 512  | 320.00 | 35   |
| 64.00 | 138   | 147.00 | 137   | 224.00 | 4621 | 321.00 | 92   |
| 65.00 | 359   | 148.00 | 793   | 225.00 | 1078 | 322.00 | 74   |
| 68.00 | 147   | 149.00 | 363   | 226.00 | 142  | 323.00 | 838  |
| 69.00 | 11621 | 150.00 | 109   | 227.00 | 2105 | 324.00 | 142  |
| 70.00 | 85    | 151.00 | 51    | 228.00 | 265  | 327.00 | 45   |
| 74.00 | 1422  | 153.00 | 245   | 229.00 | 387  | 328.00 | 26   |
| 75.00 | 1846  | 154.00 | 318   | 231.00 | 237  | 332.00 | 108  |
| 76.00 | 852   | 155.00 | 490   | 232.00 | 44   | 333.00 | 86   |
| 77.00 | 13047 | 156.00 | 617   | 233.00 | 130  | 334.00 | 628  |
| 78.00 | 880   | 157.00 | 148   | 234.00 | 46   | 335.00 | 111  |
| 79.00 | 902   | 158.00 | 128   | 235.00 | 54   | 339.00 | 53   |
| 80.00 | 798   | 159.00 | 267   | 236.00 | 88   | 340.00 | 27   |



| m/z    | Y    | m/z    | Y    | m/z    | Y     | m/z    | Y     |
|--------|------|--------|------|--------|-------|--------|-------|
| 81.00  | 1000 | 160.00 | 193  | 239.00 | 64    | 342.00 | 28    |
| 82.00  | 174  | 161.00 | 356  | 240.00 | 75    | 346.00 | 214   |
| 83.00  | 247  | 162.00 | 148  | 241.00 | 148   | 347.00 | 17    |
| 85.00  | 140  | 164.00 | 64   | 242.00 | 238   | 352.00 | 396   |
| 86.00  | 446  | 165.00 | 409  | 243.00 | 276   | 353.00 | 169   |
| 87.00  | 154  | 166.00 | 126  | 244.00 | 4155  | 354.00 | 405   |
| 88.00  | 34   | 167.00 | 1527 | 245.00 | 627   | 357.00 | 37    |
| 90.00  | 40   | 168.00 | 639  | 246.00 | 800   | 365.00 | 992   |
| 92.00  | 366  | 169.00 | 148  | 247.00 | 200   | 366.00 | 98    |
| 93.00  | 1546 | 170.00 | 113  | 248.00 | 56    | 371.00 | 2     |
| 94.00  | 139  | 171.00 | 114  | 249.00 | 223   | 372.00 | 410   |
| 95.00  | 59   | 172.00 | 135  | 251.00 | 155   | 373.00 | 81    |
| 96.00  | 164  | 173.00 | 248  | 253.00 | 244   | 383.00 | 79    |
| 97.00  | 96   | 174.00 | 290  | 254.00 | 334   | 390.00 | 70    |
| 98.00  | 1284 | 175.00 | 650  | 255.00 | 19216 | 391.00 | 22    |
| 99.00  | 1122 | 176.00 | 294  | 256.00 | 3182  | 400.00 | 25    |
| 100.00 | 104  | 177.00 | 383  | 257.00 | 149   | 402.00 | 172   |
| 101.00 | 515  | 178.00 | 63   | 258.00 | 1158  | 403.00 | 268   |
| 102.00 | 39   | 179.00 | 1178 | 259.00 | 213   | 404.00 | 66    |
| 103.00 | 193  | 180.00 | 753  | 261.00 | 55    | 412.00 | 22    |
| 104.00 | 376  | 181.00 | 328  | 262.00 | 47    | 413.00 | 21    |
| 105.00 | 465  | 182.00 | 46   | 263.00 | 19    | 421.00 | 184   |
| 106.00 | 172  | 184.00 | 53   | 264.00 | 74    | 422.00 | 240   |
| 107.00 | 4107 | 185.00 | 671  | 265.00 | 648   | 423.00 | 1554  |
| 108.00 | 771  | 186.00 | 4719 | 266.00 | 86    | 424.00 | 423   |
| 110.00 | 7593 | 187.00 | 1235 | 269.00 | 53    | 425.00 | 28    |
| 111.00 | 1290 | 188.00 | 60   | 271.00 | 130   | 430.00 | 24    |
| 112.00 | 196  | 189.00 | 343  | 273.00 | 549   | 431.00 | 75    |
| 113.00 | 101  | 191.00 | 225  | 274.00 | 1519  | 433.00 | 17    |
| 115.00 | 98   | 192.00 | 394  | 275.00 | 9291  | 437.00 | 60    |
| 116.00 | 179  | 193.00 | 384  | 276.00 | 1389  | 438.00 | 23    |
| 117.00 | 2799 | 194.00 | 198  | 277.00 | 829   | 439.00 | 44    |
| 118.00 | 244  | 195.00 | 66   | 278.00 | 107   | 441.00 | 3893  |
| 120.00 | 91   | 196.00 | 973  | 283.00 | 89    | 442.00 | 26632 |

Report Date: 11-Mar-2016 13:42:13

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

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160311-38326.b\z41573.D\8270\_11R\_9.rsl\spectra.d

Injection Date: 11-Mar-2016 07:54:30

Spectrum: Tune Spec :Average 465-467( 5.82-5.83 ) Bgrd 461( 5.80)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 276

| m/z    | Y   | m/z    | Y     | m/z    | Y   | m/z    | Y    |
|--------|-----|--------|-------|--------|-----|--------|------|
| 121.00 | 171 | 197.00 | 312   | 284.00 | 129 | 443.00 | 5126 |
| 122.00 | 380 | 198.00 | 30960 | 285.00 | 105 | 444.00 | 515  |

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160311-38326.b\z41573.D  
Injection Date: 11-Mar-2016 07:54:30 Instrument ID: CBNAMS11  
Lims ID: dftpp  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_11R\_9

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

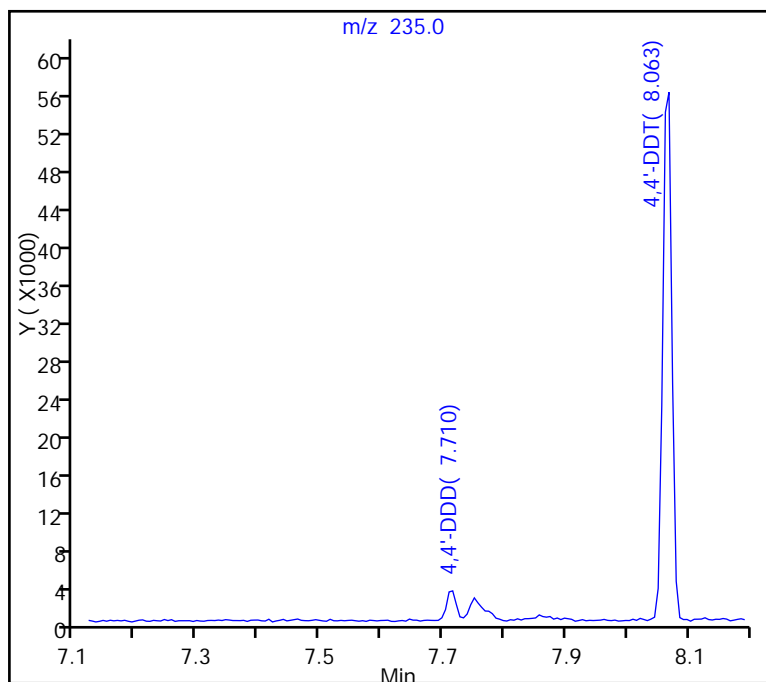
%Breakdown =  
(Area Breakdown Cpnds/  
Total Area Breakdown Cpnds) \* 100

127 4,4'-DDT, Area = 58431

126 4,4'-DDD, Area = 7529

125 4,4'-DDE, Area = 0

%Breakdown: 11.41%, Max Limit: 20.00%  
Passed



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160311-38326.b\z41573.D  
Injection Date: 11-Mar-2016 07:54:30 Instrument ID: CBNAMS11  
Lims ID: dftpp  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_11R\_9

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

30 Pentachlorophenol\_T, Detector: MS SCAN

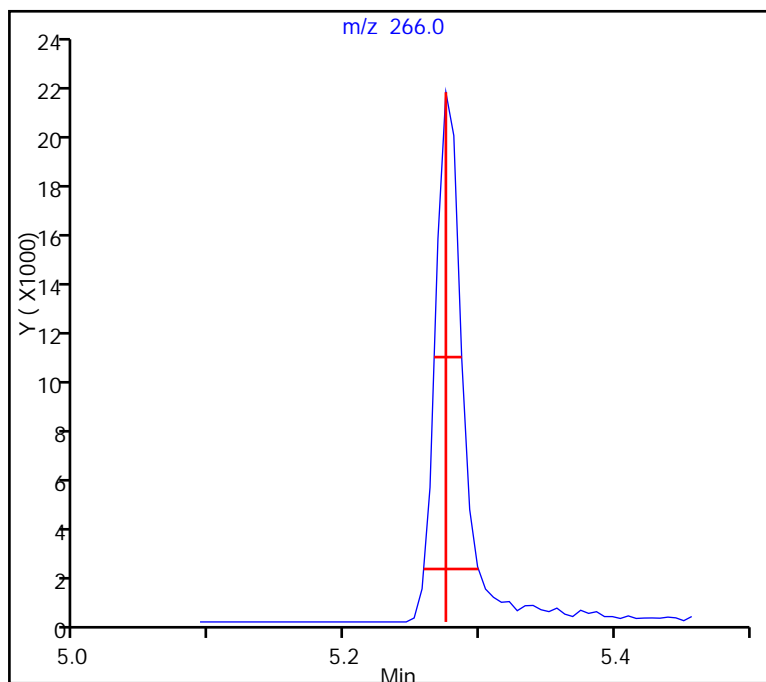
Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.024 (min.)

Front Width = 0.016 (min.)

Tailing Factor = 1.5, Max. Tailing < 2.00  
Passed

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## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160311-38326.b\z41573.D  
Injection Date: 11-Mar-2016 07:54:30 Instrument ID: CBNAMS11  
Lims ID: dftpp  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_11R\_9

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

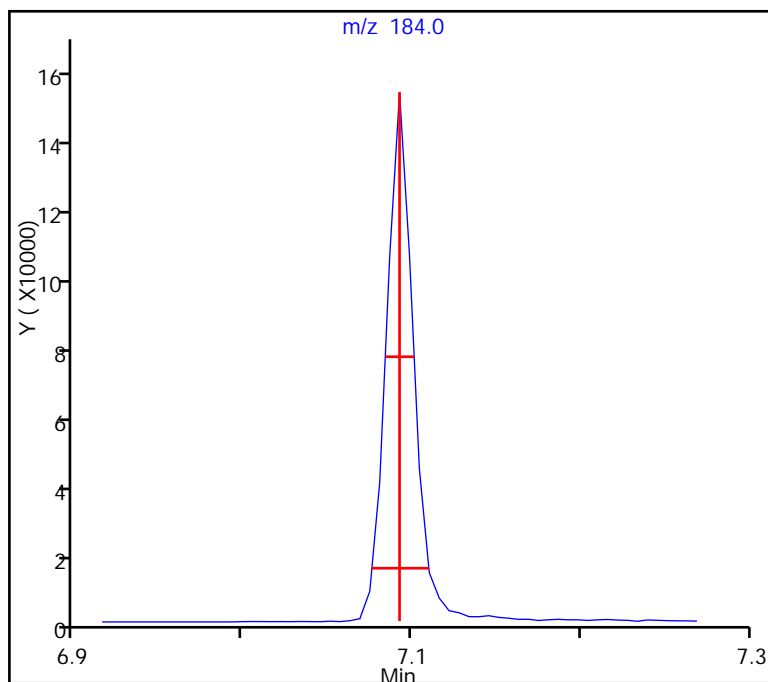
56 Benzidine\_T, Detector: MS SCAN

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

Back Width = 0.017 (min.)  
Front Width = 0.016 (min.)

Tailing Factor = 1.1, Max. Tailing < 2.00  
Passed

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TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131113a.D  
 Lims ID: dftpp  
 Client ID:  
 Sample Type: DFTPP  
 Inject. Date: 06-Mar-2016 09:26:30 ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038072-001  
 Operator ID: Instrument ID: CBNAMS12  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 07-Mar-2016 09:39:00 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK030

First Level Reviewer: szczecha

Date: 07-Mar-2016 09:39:00

| Compound               | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q  | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|------------------------|-----|--------------|------------------|------------------|----|----------|------------------|--------------------|-------|
| 23 Pentachlorophenol_T | 266 | 5.040        | 5.040            | 0.000            | 93 | 55326    | NR               | NR                 |       |
| 47 Benzidine_T         | 184 | 6.869        | 6.869            | 0.000            | 99 | 251752   | NR               | NR                 |       |
| 121 DFTPP              |     |              |                  |                  |    |          |                  |                    |       |
| 123 4,4'-DDD           | 235 | 7.546        | 7.546            | 0.000            | 94 | 4074     |                  | NR                 | M     |
| 124 4,4'-DDT           | 235 | 7.857        | 7.857            | 0.000            | 98 | 125944   | NR               | NR                 |       |

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

**Reagents:**

SMDFTP\_CH\_00015

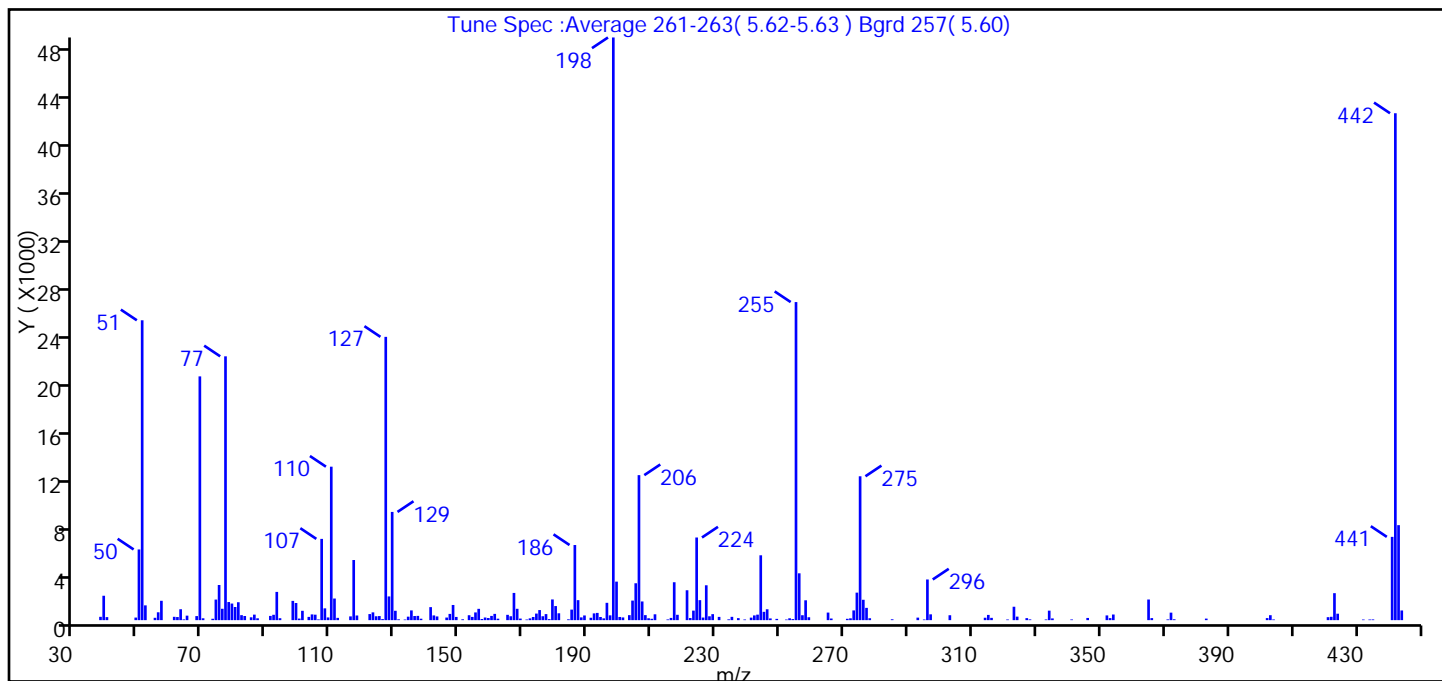
Amount Added: 1.00

Units: mL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131113a.D  
Injection Date: 06-Mar-2016 09:26:30 Instrument ID: CBNAMS12  
Lims ID: dftpp  
Client ID:  
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 8270\_12R\_9 Limit Group: SV 8270D ICAL  
Tune Method: DFTPP Method 8270

## 121 DFTPP



| m/z | Ion Abundance Criteria             | % Relative Abundance |
|-----|------------------------------------|----------------------|
| 198 | Base peak, 100% relative abundance | 100.0                |
| 51  | 30-60% of mass 198                 | 51.5                 |
| 68  | <2% of mass 69                     | 0.7 (1.7)            |
| 69  | Present                            | 41.8                 |
| 70  | <2% of mass 69                     | 0.3 (0.8)            |
| 127 | 40-60% of mass 198                 | 48.6                 |
| 197 | <1% of mass 198                    | 0.8                  |
| 199 | 5-9% of mass 198                   | 6.6                  |
| 275 | 10-30% of mass 198                 | 24.7                 |
| 365 | >1% of mass 198                    | 3.5                  |
| 441 | Present but less than mass 443     | 14.3 (87.7)          |
| 442 | >40% of mass 198                   | 87.0                 |
| 443 | 17-23% of mass 442                 | 16.3 (18.7)          |

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131113a.D\8270\_12R\_9.rsl\spectra.d  
Injection Date: 06-Mar-2016 09:26:30  
Spectrum: Tune Spec :Average 261-263( 5.62-5.63 ) Bgrd 257( 5.60)  
Base Peak: 198.00  
Minimum % Base Peak: 0  
Number of Points: 215

| m/z   | Y     | m/z    | Y     | m/z    | Y     | m/z    | Y     |
|-------|-------|--------|-------|--------|-------|--------|-------|
| 38.00 | 274   | 123.00 | 642   | 189.00 | 387   | 259.00 | 239   |
| 39.00 | 2014  | 124.00 | 320   | 191.00 | 197   | 265.00 | 625   |
| 40.00 | 250   | 125.00 | 338   | 192.00 | 558   | 266.00 | 134   |
| 49.00 | 212   | 126.00 | 88    | 193.00 | 597   | 271.00 | 111   |
| 50.00 | 5837  | 127.00 | 23392 | 194.00 | 260   | 272.00 | 151   |
| 51.00 | 24760 | 128.00 | 1958  | 195.00 | 147   | 273.00 | 804   |
| 52.00 | 1220  | 129.00 | 8936  | 196.00 | 1430  | 274.00 | 2271  |
| 55.00 | 194   | 130.00 | 773   | 197.00 | 396   | 275.00 | 11879 |
| 56.00 | 649   | 131.00 | 69    | 198.00 | 48112 | 276.00 | 1682  |
| 57.00 | 1598  | 133.00 | 50    | 199.00 | 3181  | 277.00 | 1014  |
| 61.00 | 275   | 134.00 | 287   | 200.00 | 262   | 278.00 | 158   |
| 62.00 | 256   | 135.00 | 804   | 201.00 | 224   | 285.00 | 70    |
| 63.00 | 901   | 136.00 | 341   | 203.00 | 412   | 293.00 | 208   |
| 64.00 | 63    | 137.00 | 352   | 204.00 | 1615  | 295.00 | 53    |
| 65.00 | 371   | 138.00 | 118   | 205.00 | 3046  | 296.00 | 3358  |
| 68.00 | 335   | 141.00 | 1075  | 206.00 | 11973 | 297.00 | 480   |
| 69.00 | 20128 | 142.00 | 390   | 207.00 | 1543  | 303.00 | 405   |
| 70.00 | 154   | 143.00 | 306   | 208.00 | 414   | 314.00 | 199   |
| 73.00 | 114   | 146.00 | 214   | 209.00 | 155   | 315.00 | 432   |
| 74.00 | 1699  | 147.00 | 515   | 210.00 | 111   | 316.00 | 189   |
| 75.00 | 2902  | 148.00 | 1252  | 211.00 | 483   | 321.00 | 55    |
| 76.00 | 939   | 149.00 | 265   | 215.00 | 59    | 323.00 | 1107  |
| 77.00 | 21784 | 151.00 | 70    | 216.00 | 184   | 324.00 | 290   |
| 78.00 | 1495  | 153.00 | 406   | 217.00 | 3130  | 327.00 | 166   |
| 79.00 | 1370  | 154.00 | 267   | 218.00 | 442   | 328.00 | 63    |
| 80.00 | 1085  | 155.00 | 637   | 221.00 | 2468  | 333.00 | 56    |
| 81.00 | 1479  | 156.00 | 934   | 222.00 | 175   | 334.00 | 784   |
| 82.00 | 412   | 157.00 | 93    | 223.00 | 787   | 335.00 | 143   |
| 83.00 | 342   | 158.00 | 217   | 224.00 | 6824  | 341.00 | 57    |
| 85.00 | 234   | 159.00 | 175   | 225.00 | 1651  | 346.00 | 181   |
| 86.00 | 456   | 160.00 | 349   | 226.00 | 214   | 352.00 | 391   |
| 87.00 | 152   | 161.00 | 517   | 227.00 | 2879  | 353.00 | 168   |
| 91.00 | 349   | 162.00 | 121   | 228.00 | 319   | 354.00 | 465   |



Report Date: 07-Mar-2016 09:39:01

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

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131113a.D\8270\_12R\_9.rslt\spectra.d

Injection Date: 06-Mar-2016 09:26:30

Spectrum: Tune Spec :Average 261-263( 5.62-5.63 ) Bgrd 257( 5.60)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 215

| m/z    | Y     | m/z    | Y    | m/z    | Y     | m/z    | Y     |
|--------|-------|--------|------|--------|-------|--------|-------|
| 92.00  | 442   | 165.00 | 439  | 229.00 | 495   | 365.00 | 1704  |
| 93.00  | 2332  | 166.00 | 322  | 231.00 | 268   | 366.00 | 169   |
| 94.00  | 160   | 167.00 | 2247 | 234.00 | 66    | 371.00 | 61    |
| 98.00  | 1590  | 168.00 | 937  | 235.00 | 272   | 372.00 | 619   |
| 99.00  | 1415  | 169.00 | 129  | 237.00 | 166   | 373.00 | 72    |
| 100.00 | 130   | 171.00 | 51   | 239.00 | 55    | 383.00 | 127   |
| 101.00 | 771   | 172.00 | 147  | 241.00 | 207   | 402.00 | 170   |
| 103.00 | 268   | 173.00 | 261  | 242.00 | 391   | 403.00 | 408   |
| 104.00 | 474   | 174.00 | 542  | 243.00 | 454   | 404.00 | 57    |
| 105.00 | 452   | 175.00 | 832  | 244.00 | 5355  | 421.00 | 245   |
| 106.00 | 60    | 176.00 | 322  | 245.00 | 686   | 422.00 | 277   |
| 107.00 | 6710  | 177.00 | 499  | 246.00 | 898   | 423.00 | 2227  |
| 108.00 | 974   | 178.00 | 86   | 247.00 | 141   | 424.00 | 531   |
| 109.00 | 223   | 179.00 | 1709 | 249.00 | 105   | 432.00 | 51    |
| 110.00 | 12672 | 180.00 | 1163 | 252.00 | 50    | 434.00 | 52    |
| 111.00 | 1785  | 181.00 | 567  | 253.00 | 154   | 435.00 | 59    |
| 112.00 | 188   | 184.00 | 68   | 254.00 | 89    | 441.00 | 6876  |
| 116.00 | 310   | 185.00 | 870  | 255.00 | 26264 | 442.00 | 41856 |
| 117.00 | 4965  | 186.00 | 6203 | 256.00 | 3867  | 443.00 | 7844  |
| 118.00 | 384   | 187.00 | 1651 | 257.00 | 406   | 444.00 | 800   |
| 122.00 | 501   | 188.00 | 228  | 258.00 | 1639  |        |       |

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131113a.D  
Injection Date: 06-Mar-2016 09:26:30 Instrument ID: CBNAMS12  
Lims ID: dftpp  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_12R\_9

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

124 4,4'-DDT, Detector: MS SCAN

## SW-846 Method

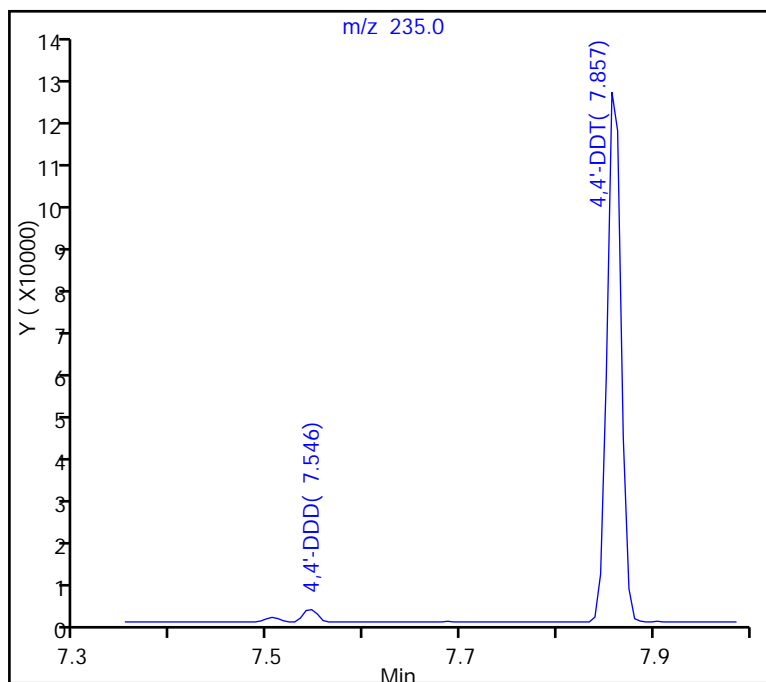
%Breakdown =  
(Area Breakdown Cpnds/  
Total Area Breakdown Cpnds) \* 100

124 4,4'-DDT, Area = 125944

123 4,4'-DDD, Area = 4074

122 4,4'-DDE, Area = 0

%Breakdown: 3.13%, Max Limit: 20.00%  
Passed



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131113a.D  
Injection Date: 06-Mar-2016 09:26:30 Instrument ID: CBNAMS12  
Lims ID: dftpp  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_12R\_9

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

47 Benzidine\_T, Detector: MS SCAN

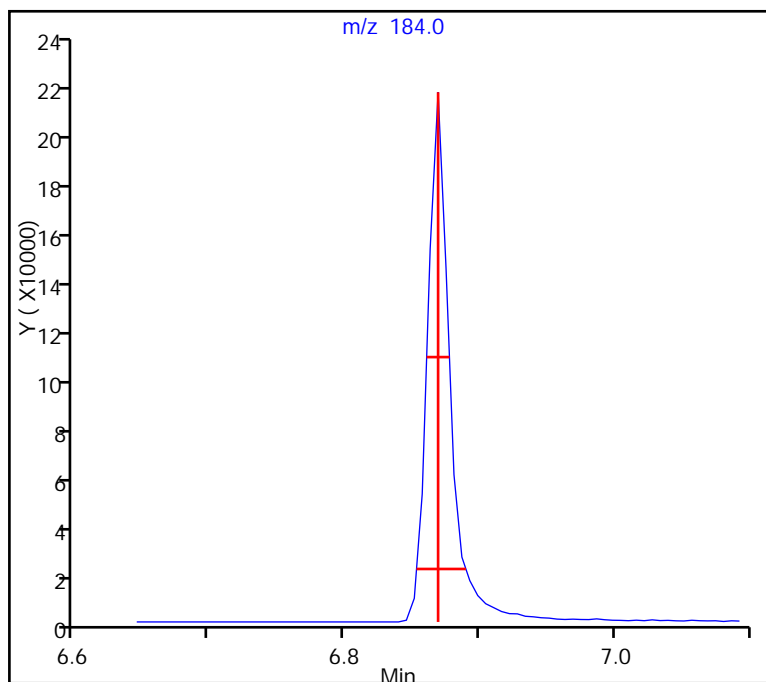
Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.021 (min.)

Front Width = 0.016 (min.)

Tailing Factor = 1.3, Max. Tailing < 2.00  
Passed

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## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131113a.D  
Injection Date: 06-Mar-2016 09:26:30 Instrument ID: CBNAMS12  
Lims ID: dftpp  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_12R\_9

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

23 Pentachlorophenol\_T, Detector: MS SCAN

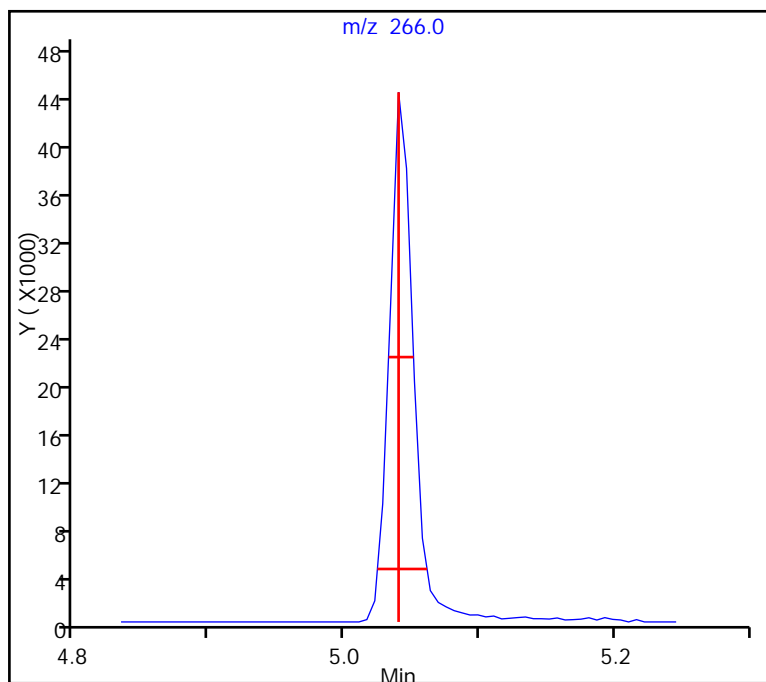
Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.021 (min.)

Front Width = 0.016 (min.)

Tailing Factor = 1.3, Max. Tailing < 2.00  
Passed

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TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131349.D  
 Lims ID: dftpp  
 Client ID:  
 Sample Type: DFTPP  
 Inject. Date: 11-Mar-2016 01:45:30 ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038301-001  
 Operator ID: Instrument ID: CBNAMS12  
 Method: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\8270\_12R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 11-Mar-2016 14:15:09 Calib Date: 06-Mar-2016 16:43:30  
 Integrator: RTE ID Type: RT Order ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS12\20160306-38074.b\L131129.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK027

First Level Reviewer: szczecha

Date: 11-Mar-2016 14:15:09

| Compound               | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 23 Pentachlorophenol_T | 266 | 4.934        | 4.934            | 0.000            | 92  | 23772    | NR               | NR                 |       |
| 47 Benzidine_T         | 184 | 6.751        | 6.751            | 0.000            | 100 | 178385   | NR               | NR                 |       |
| 121 DFTPP              |     |              |                  |                  |     |          |                  |                    |       |
| 123 4,4'-DDD           | 235 | 7.422        | 7.422            | 0.000            | 93  | 2825     |                  | NR                 | M     |
| 124 4,4'-DDT           | 235 | 7.740        | 7.740            | 0.000            | 98  | 71692    | NR               | NR                 |       |

**QC Flag Legend**

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

**Reagents:**

SMDFTP\_CH\_00015

Amount Added: 1.00

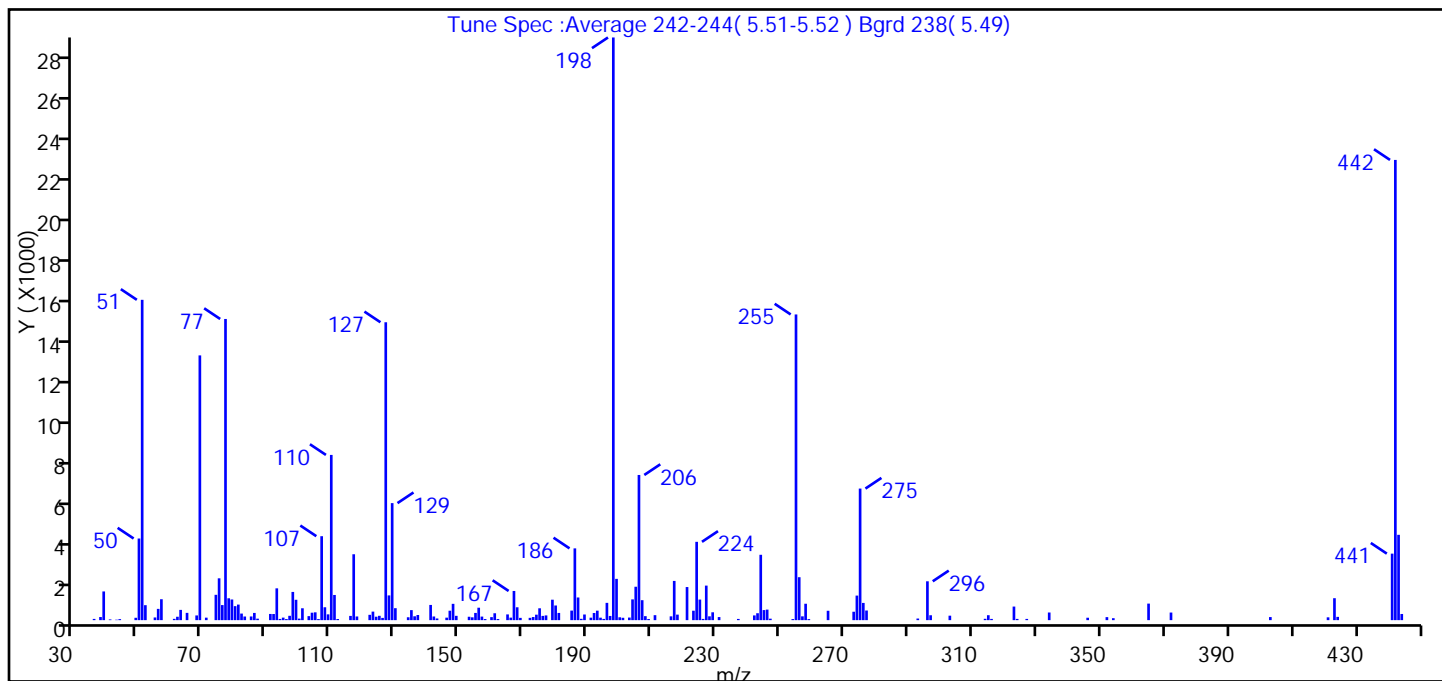
Units: mL

## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131349.D  
Injection Date: 11-Mar-2016 01:45:30 Instrument ID: CBNAMS12  
Lims ID: dftpp  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_12R\_9  
Tune Method: DFTPP Method 8270

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

## 121 DFTPP



| m/z | Ion Abundance Criteria             | % Relative Abundance |
|-----|------------------------------------|----------------------|
| 198 | Base peak, 100% relative abundance | 100.0                |
| 51  | 30-60% of mass 198                 | 55.0                 |
| 68  | <2% of mass 69                     | 0.8 (1.8)            |
| 69  | Present                            | 45.4                 |
| 70  | <2% of mass 69                     | 0.0 (0.0)            |
| 127 | 40-60% of mass 198                 | 51.1                 |
| 197 | <1% of mass 198                    | 0.7                  |
| 199 | 5-9% of mass 198                   | 7.1                  |
| 275 | 10-30% of mass 198                 | 22.6                 |
| 365 | >1% of mass 198                    | 2.8                  |
| 441 | Present but less than mass 443     | 11.4 (77.9)          |
| 442 | >40% of mass 198                   | 79.0                 |
| 443 | 17-23% of mass 442                 | 14.6 (18.5)          |

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131349.D\8270\_12R\_9.rsl\spectra.d  
Injection Date: 11-Mar-2016 01:45:30  
Spectrum: Tune Spec :Average 242-244( 5.51-5.52 ) Bgrd 238( 5.49)  
Base Peak: 198.00  
Minimum % Base Peak: 0  
Number of Points: 179

| m/z   | Y     | m/z    | Y     | m/z    | Y     | m/z    | Y     |
|-------|-------|--------|-------|--------|-------|--------|-------|
| 36.00 | 60    | 104.00 | 362   | 169.00 | 111   | 231.00 | 150   |
| 38.00 | 151   | 105.00 | 380   | 172.00 | 112   | 237.00 | 59    |
| 39.00 | 1397  | 106.00 | 51    | 173.00 | 151   | 242.00 | 230   |
| 41.00 | 35    | 107.00 | 4086  | 174.00 | 266   | 243.00 | 337   |
| 43.00 | 21    | 108.00 | 627   | 175.00 | 577   | 244.00 | 3181  |
| 44.00 | 50    | 109.00 | 282   | 176.00 | 207   | 245.00 | 490   |
| 49.00 | 115   | 110.00 | 8042  | 177.00 | 230   | 246.00 | 513   |
| 50.00 | 3973  | 111.00 | 1225  | 179.00 | 995   | 247.00 | 71    |
| 51.00 | 15591 | 112.00 | 55    | 180.00 | 713   | 254.00 | 52    |
| 52.00 | 728   | 116.00 | 206   | 181.00 | 351   | 255.00 | 14879 |
| 55.00 | 130   | 117.00 | 3207  | 185.00 | 465   | 256.00 | 2090  |
| 56.00 | 548   | 118.00 | 179   | 186.00 | 3493  | 257.00 | 185   |
| 57.00 | 1018  | 122.00 | 259   | 187.00 | 1103  | 258.00 | 798   |
| 61.00 | 63    | 123.00 | 415   | 188.00 | 64    | 259.00 | 50    |
| 62.00 | 165   | 124.00 | 167   | 189.00 | 275   | 265.00 | 456   |
| 63.00 | 499   | 125.00 | 211   | 191.00 | 120   | 273.00 | 409   |
| 65.00 | 354   | 126.00 | 109   | 192.00 | 348   | 274.00 | 1195  |
| 68.00 | 229   | 127.00 | 14499 | 193.00 | 461   | 275.00 | 6404  |
| 69.00 | 12886 | 128.00 | 1204  | 194.00 | 120   | 276.00 | 838   |
| 71.00 | 121   | 129.00 | 5696  | 195.00 | 60    | 277.00 | 469   |
| 74.00 | 1233  | 130.00 | 582   | 196.00 | 841   | 293.00 | 78    |
| 75.00 | 2036  | 134.00 | 140   | 197.00 | 204   | 296.00 | 1891  |
| 76.00 | 733   | 135.00 | 488   | 198.00 | 28360 | 297.00 | 238   |
| 77.00 | 14659 | 136.00 | 188   | 199.00 | 2009  | 303.00 | 217   |
| 78.00 | 1064  | 137.00 | 250   | 200.00 | 139   | 314.00 | 66    |
| 79.00 | 1005  | 141.00 | 740   | 201.00 | 115   | 315.00 | 240   |
| 80.00 | 681   | 142.00 | 178   | 203.00 | 126   | 316.00 | 60    |
| 81.00 | 757   | 143.00 | 81    | 204.00 | 1010  | 323.00 | 661   |
| 82.00 | 320   | 146.00 | 121   | 205.00 | 1626  | 324.00 | 60    |
| 83.00 | 177   | 147.00 | 459   | 206.00 | 7066  | 327.00 | 60    |
| 85.00 | 179   | 148.00 | 794   | 207.00 | 971   | 334.00 | 372   |
| 86.00 | 351   | 149.00 | 210   | 208.00 | 194   | 346.00 | 117   |
| 87.00 | 72    | 153.00 | 165   | 209.00 | 54    | 352.00 | 147   |

Report Date: 11-Mar-2016 14:15:11

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

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131349.D\8270\_12R\_9.rsl\spectra.d

Injection Date: 11-Mar-2016 01:45:30

Spectrum: Tune Spec :Average 242-244( 5.51-5.52 ) Bgrd 238( 5.49)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 179

| m/z    | Y    | m/z    | Y    | m/z    | Y    | m/z    | Y     |
|--------|------|--------|------|--------|------|--------|-------|
| 91.00  | 301  | 154.00 | 137  | 211.00 | 242  | 354.00 | 95    |
| 92.00  | 298  | 155.00 | 351  | 216.00 | 185  | 365.00 | 805   |
| 93.00  | 1548 | 156.00 | 605  | 217.00 | 1909 | 372.00 | 370   |
| 94.00  | 59   | 157.00 | 173  | 218.00 | 269  | 403.00 | 150   |
| 95.00  | 123  | 158.00 | 53   | 221.00 | 1611 | 421.00 | 137   |
| 96.00  | 52   | 160.00 | 146  | 223.00 | 459  | 423.00 | 1068  |
| 97.00  | 211  | 161.00 | 335  | 224.00 | 3812 | 424.00 | 159   |
| 98.00  | 1373 | 162.00 | 54   | 225.00 | 1001 | 441.00 | 3237  |
| 99.00  | 991  | 165.00 | 279  | 226.00 | 60   | 442.00 | 22400 |
| 100.00 | 74   | 166.00 | 122  | 227.00 | 1681 | 443.00 | 4153  |
| 101.00 | 578  | 167.00 | 1420 | 228.00 | 186  | 444.00 | 300   |
| 103.00 | 196  | 168.00 | 626  | 229.00 | 382  |        |       |



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131349.D  
Injection Date: 11-Mar-2016 01:45:30 Instrument ID: CBNAMS12  
Lims ID: dftpp  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_12R\_9

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

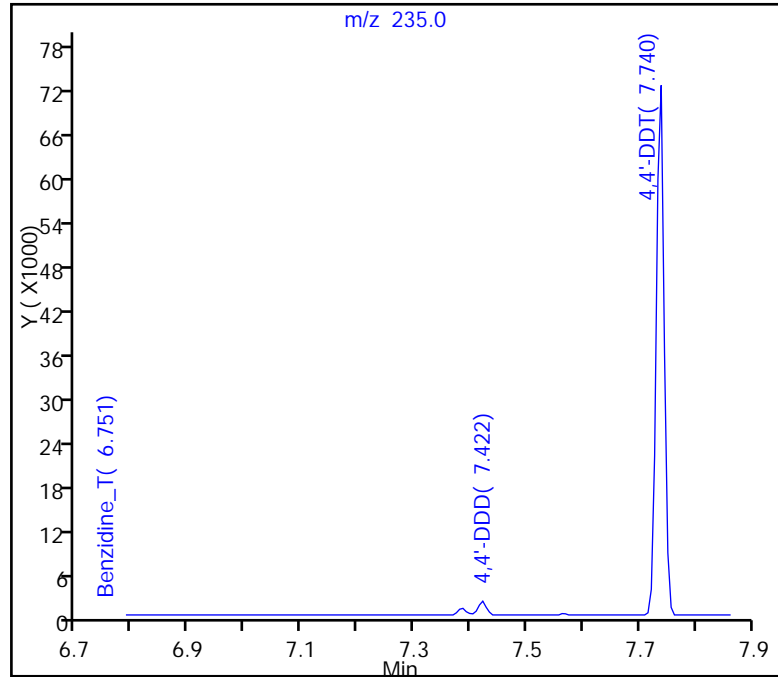
124 4,4'-DDT, Detector: MS SCAN

## SW-846 Method

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

124 4,4'-DDT, Area = 71692  
123 4,4'-DDD, Area = 2825  
122 4,4'-DDE, Area = 0

%Breakdown: 3.79%, Max Limit: 20.00%  
Passed



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131349.D  
Injection Date: 11-Mar-2016 01:45:30 Instrument ID: CBNAMS12  
Lims ID: dftpp  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_12R\_9

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

23 Pentachlorophenol\_T, Detector: MS SCAN

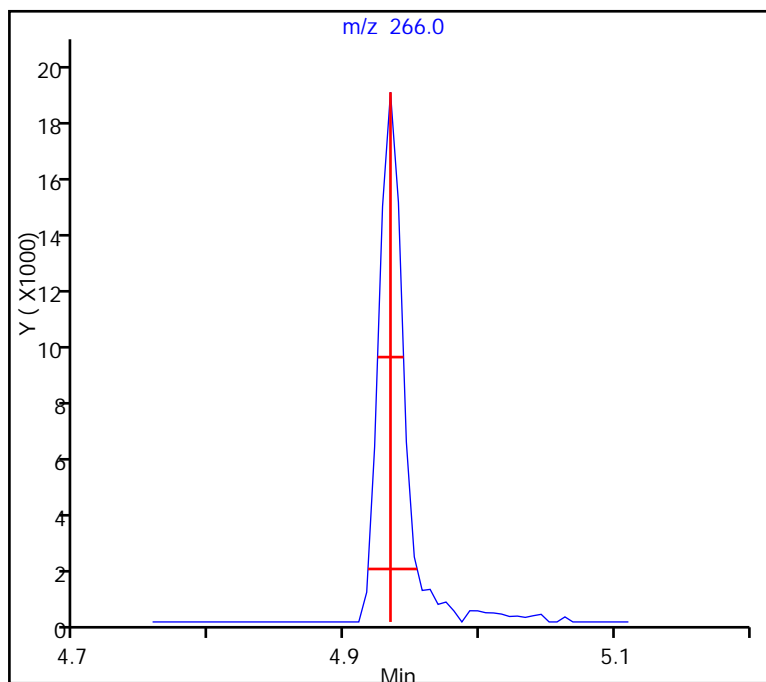
Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.020 (min.)

Front Width = 0.017 (min.)

Tailing Factor = 1.2, Max. Tailing < 2.00  
Passed

-----



## TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS12\20160311-38301.b\L131349.D  
Injection Date: 11-Mar-2016 01:45:30 Instrument ID: CBNAMS12  
Lims ID: dftpp  
Client ID:  
Operator ID:  
Injection Vol: 1.0 ul  
Method: 8270\_12R\_9

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

47 Benzidine\_T, Detector: MS SCAN

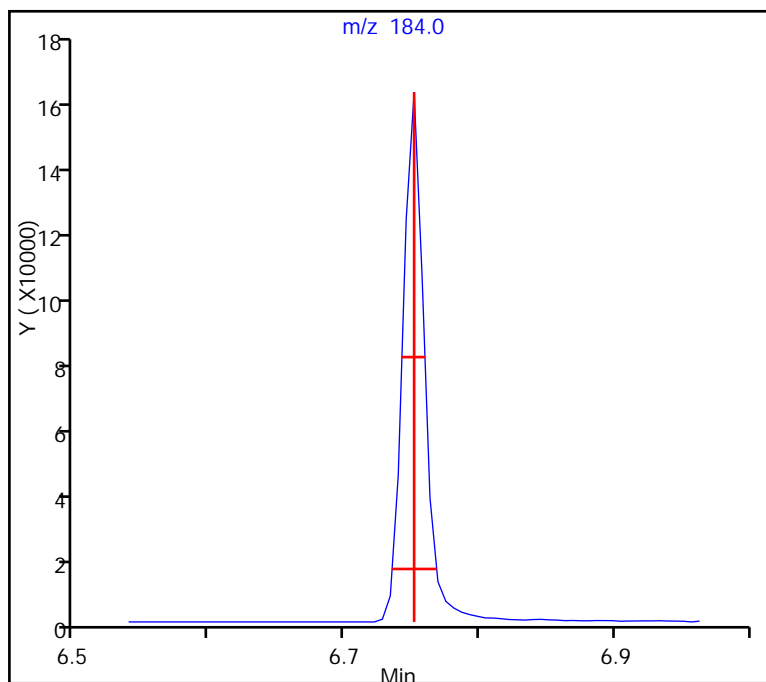
Peak Tailing Factor =  
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)

Front Width = 0.016 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00  
Passed

-----



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

|                                     |   |
|-------------------------------------|---|
| Lab Name: <u>TestAmerica Edison</u> | Job No.: <u>460-109716-1</u>            |
| SDG No.: _____                      |   |
| Client Sample ID: _____             | Lab Sample ID: <u>MB 460-355001/1-A</u> |
| Matrix: <u>Solid</u>                | Lab File ID: <u>z41577.D</u>            |
| Analysis Method: <u>8270D</u>       | Date Collected: _____                   |
| Extract. Method: <u>3546</u>        | Date Extracted: <u>03/09/2016 13:54</u> |
| Sample wt/vol: <u>15.0000 (g)</u>   | Date Analyzed: <u>03/11/2016 09:33</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>355488</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>460-109716-1</u>            |
| SDG No.: _____                      |   |
| Client Sample ID: _____             | Lab Sample ID: <u>MB 460-355001/1-A</u> |
| Matrix: <u>Solid</u>                | Lab File ID: <u>z41577.D</u>            |
| Analysis Method: <u>8270D</u>       | Date Collected: _____                   |
| Extract. Method: <u>3546</u>        | Date Extracted: <u>03/09/2016 13:54</u> |
| Sample wt/vol: <u>15.0000 (g)</u>   | Date Analyzed: <u>03/11/2016 09:33</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>355488</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: TestAmerica Edison Job No.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 460-355001/1-A  
 Matrix: Solid Lab File ID: z41577.D  
 Analysis Method: 8270D Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/09/2016 13:54  
 Sample wt/vol: 15.0000 (g) Date Analyzed: 03/11/2016 09:33  
 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.: 355488 Units: ug/Kg

| CAS NO.   | SURROGATE                   | %REC | Q | LIMITS |
|-----------|-----------------------------|------|---|--------|
| 118-79-6  | 2,4,6-Tribromophenol (Surr) | 79   |   | 10-95  |
| 321-60-8  | 2-Fluorobiphenyl            | 72   |   | 27-84  |
| 367-12-4  | 2-Fluorophenol (Surr)       | 68   |   | 21-84  |
| 4165-60-0 | Nitrobenzene-d5 (Surr)      | 73   |   | 28-92  |
| 4165-62-2 | Phenol-d5 (Surr)            | 73   |   | 22-88  |
| 1718-51-0 | Terphenyl-d14 (Surr)        | 81   |   | 16-114 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160311-38326.b\z41577.D  
 Lims ID: MB 460-355001/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 11-Mar-2016 09:33:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038326-005  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160311-38326.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 11-Mar-2016 13:46:19 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK027

First Level Reviewer: szczech

Date: 11-Mar-2016 13:46:19

| Compound                    | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| \$ 4 2-Fluorophenol         | 112 | 3.257        | 3.228            | 0.029            | 92  | 345923   | 50.0             | 34.2               |       |
| \$ 6 Phenol-d5              | 99  | 4.134        | 4.157            | -0.023           | 87  | 441069   | 50.0             | 36.4               |       |
| * 14 1,4-Dichlorobenzene-d4 | 152 | 4.469        | 4.469            | 0.000            | 98  | 285158   | 40.0             | 40.0               |       |
| \$ 26 Nitrobenzene-d5       | 82  | 5.028        | 5.051            | -0.023           | 89  | 419699   | 50.0             | 36.5               |       |
| * 38 Naphthalene-d8         | 136 | 5.745        | 5.751            | -0.006           | 100 | 1081404  | 40.0             | 40.0               |       |
| \$ 51 2-Fluorobiphenyl      | 172 | 6.822        | 6.839            | -0.017           | 98  | 760433   | 50.0             | 35.9               |       |
| * 65 Acenaphthene-d10       | 164 | 7.492        | 7.498            | -0.006           | 93  | 563080   | 40.0             | 40.0               |       |
| \$ 80 2,4,6-Tribromophenol  | 330 | 8.275        | 8.292            | -0.017           | 94  | 91993    | 50.0             | 39.5               |       |
| * 87 Phenanthrene-d10       | 188 | 8.957        | 8.963            | -0.006           | 99  | 783819   | 40.0             | 40.0               |       |
| \$ 96 Terphenyl-d14         | 244 | 10.533       | 10.545           | -0.012           | 99  | 462449   | 50.0             | 40.6               |       |
| * 102 Chrysene-d12          | 240 | 11.745       | 11.751           | -0.006           | 100 | 358350   | 40.0             | 40.0               |       |
| * 109 Perylene-d12          | 264 | 13.692       | 13.698           | -0.006           | 99  | 243167   | 40.0             | 40.0               |       |

**Reagents:**

SM\_ISTD\_00105

Amount Added: 20.00

Units: uL

Run Reagent

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160311-38326.b\\z41577.D

Injection Date: 11-Mar-2016 09:33:30

Instrument ID: CBNAMS11

Operator ID:

Lims ID: MB 460-355001/1-A

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

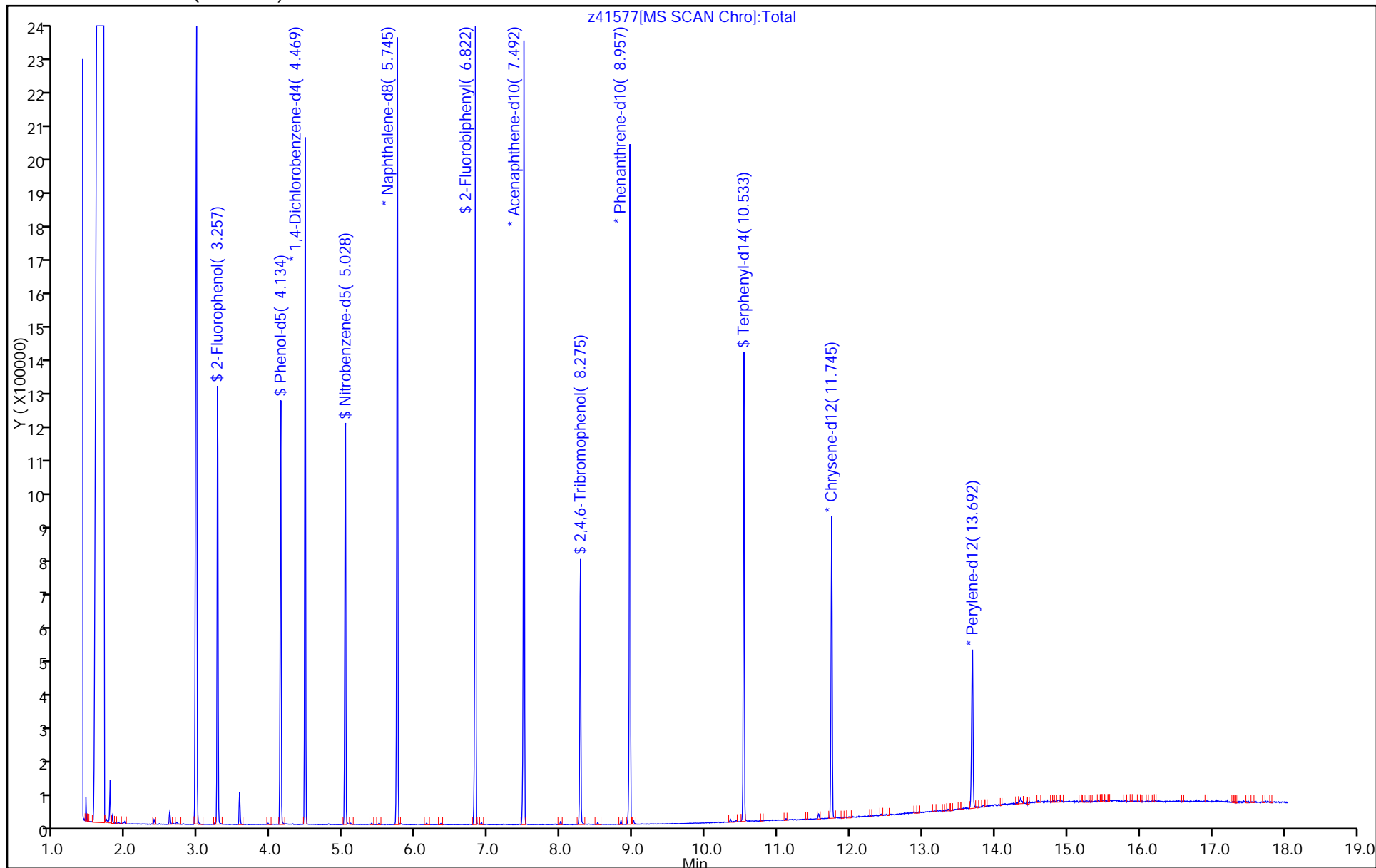
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8270\_11R\_9

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>460-109716-1</u>             |
| SDG No.: _____                      |  |
| Client Sample ID: _____             | Lab Sample ID: <u>LCS 460-355001/2-A</u> |
| Matrix: <u>Solid</u>                | Lab File ID: <u>z41546.D</u>             |
| Analysis Method: <u>8270D</u>       | Date Collected: _____                    |
| Extract. Method: <u>3546</u>        | Date Extracted: <u>03/09/2016 13:54</u>  |
| Sample wt/vol: <u>15.0000 (g)</u>   | Date Analyzed: <u>03/10/2016 20:47</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>355365</u>   | Units: <u>ug/Kg</u>                      |

| CAS NO.   | COMPOUND NAME                | RESULT | Q | RL  | MDL |
|-----------|------------------------------|--------|---|-----|-----|
| 92-52-4   | 1,1'-Biphenyl                | 2560   |   | 330 | 28  |
| 95-94-3   | 1,2,4,5-Tetrachlorobenzene   | 2570   |   | 330 | 25  |
| 108-60-1  | 2,2'-oxybis[1-chloropropane] | 2230   |   | 330 | 14  |
| 58-90-2   | 2,3,4,6-Tetrachlorophenol    | 2870   |   | 330 | 31  |
| 95-95-4   | 2,4,5-Trichlorophenol        | 2660   |   | 330 | 33  |
| 88-06-2   | 2,4,6-Trichlorophenol        | 2790   |   | 130 | 9.4 |
| 120-83-2  | 2,4-Dichlorophenol           | 2540   |   | 130 | 7.8 |
| 105-67-9  | 2,4-Dimethylphenol           | 2580   |   | 330 | 73  |
| 51-28-5   | 2,4-Dinitrophenol            | 4920   |   | 270 | 250 |
| 121-14-2  | 2,4-Dinitrotoluene           | 2830   |   | 67  | 13  |
| 606-20-2  | 2,6-Dinitrotoluene           | 2780   |   | 67  | 18  |
| 91-58-7   | 2-Chloronaphthalene          | 2550   |   | 330 | 7.5 |
| 95-57-8   | 2-Chlorophenol               | 2580   |   | 330 | 8.4 |
| 91-57-6   | 2-Methylnaphthalene          | 2590   |   | 330 | 7.3 |
| 95-48-7   | 2-Methylphenol               | 2700   |   | 330 | 14  |
| 88-74-4   | 2-Nitroaniline               | 2570   |   | 330 | 11  |
| 88-75-5   | 2-Nitrophenol                | 2580   |   | 330 | 11  |
| 91-94-1   | 3,3'-Dichlorobenzidine       | 1340   |   | 130 | 37  |
| 99-09-2   | 3-Nitroaniline               | 1500   |   | 330 | 9.8 |
| 534-52-1  | 4,6-Dinitro-2-methylphenol   | 5360   |   | 270 | 88  |
| 101-55-3  | 4-Bromophenyl phenyl ether   | 2870   |   | 330 | 10  |
| 59-50-7   | 4-Chloro-3-methylphenol      | 2800   |   | 330 | 14  |
| 106-47-8  | 4-Chloroaniline              | 1110   |   | 330 | 8.5 |
| 7005-72-3 | 4-Chlorophenyl phenyl ether  | 2780   |   | 330 | 9.9 |
| 106-44-5  | 4-Methylphenol               | 2750   |   | 330 | 9.0 |
| 100-01-6  | 4-Nitroaniline               | 2430   |   | 330 | 13  |
| 100-02-7  | 4-Nitrophenol                | 6240   |   | 670 | 160 |
| 83-32-9   | Acenaphthene                 | 2640   |   | 330 | 8.0 |
| 208-96-8  | Acenaphthylene               | 2720   |   | 330 | 8.5 |
| 98-86-2   | Acetophenone                 | 2710   |   | 330 | 7.2 |
| 120-12-7  | Anthracene                   | 2890   |   | 330 | 31  |
| 56-55-3   | Benzo[a]anthracene           | 2730   |   | 33  | 28  |
| 50-32-8   | Benzo[a]pyrene               | 2840   |   | 33  | 10  |
| 205-99-2  | Benzo[b]fluoranthene         | 2870   |   | 33  | 13  |

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

|                                     |  |
|-------------------------------------|--|
| Lab Name: <u>TestAmerica Edison</u> | Job No.: <u>460-109716-1</u>             |
| SDG No.: _____                      |  |
| Client Sample ID: _____             | Lab Sample ID: <u>LCS 460-355001/2-A</u> |
| Matrix: <u>Solid</u>                | Lab File ID: <u>z41546.D</u>             |
| Analysis Method: <u>8270D</u>       | Date Collected: _____                    |
| Extract. Method: <u>3546</u>        | Date Extracted: <u>03/09/2016 13:54</u>  |
| Sample wt/vol: <u>15.0000 (g)</u>   | Date Analyzed: <u>03/10/2016 20:47</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>355365</u>   | Units: <u>ug/Kg</u>                      |

| CAS NO.  | COMPOUND NAME               | RESULT | Q | RL  | MDL |
|----------|-----------------------------|--------|---|-----|-----|
| 191-24-2 | Benzo[g,h,i]perylene        | 2360   |   | 330 | 19  |
| 207-08-9 | Benzo[k]fluoranthene        | 2770   |   | 33  | 14  |
| 111-91-1 | Bis(2-chloroethoxy)methane  | 2620   |   | 330 | 10  |
| 111-44-4 | Bis(2-chloroethyl)ether     | 2640   |   | 33  | 7.8 |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 3000   |   | 330 | 13  |
| 85-68-7  | Butyl benzyl phthalate      | 2950   |   | 330 | 10  |
| 86-74-8  | Carbazole                   | 2730   |   | 330 | 8.2 |
| 218-01-9 | Chrysene                    | 2850   |   | 330 | 9.0 |
| 53-70-3  | Dibenz(a,h)anthracene       | 2620   |   | 33  | 17  |
| 132-64-9 | Dibenzofuran                | 2660   |   | 330 | 10  |
| 84-66-2  | Diethyl phthalate           | 2860   |   | 330 | 9.4 |
| 131-11-3 | Dimethyl phthalate          | 2770   |   | 330 | 9.6 |
| 84-74-2  | Di-n-butyl phthalate        | 2890   |   | 330 | 9.9 |
| 117-84-0 | Di-n-octyl phthalate        | 3210   |   | 330 | 17  |
| 206-44-0 | Fluoranthene                | 2730   |   | 330 | 9.8 |
| 86-73-7  | Fluorene                    | 2750   |   | 330 | 7.2 |
| 118-74-1 | Hexachlorobenzene           | 2820   |   | 33  | 13  |
| 87-68-3  | Hexachlorobutadiene         | 2580   |   | 67  | 9.3 |
| 77-47-4  | Hexachlorocyclopentadiene   | 4050   |   | 330 | 21  |
| 67-72-1  | Hexachloroethane            | 2480   |   | 33  | 12  |
| 193-39-5 | Indeno[1,2,3-cd]pyrene      | 2690   |   | 33  | 22  |
| 78-59-1  | Isophorone                  | 2760   |   | 130 | 7.1 |
| 91-20-3  | Naphthalene                 | 2580   |   | 330 | 8.4 |
| 98-95-3  | Nitrobenzene                | 2620   |   | 33  | 10  |
| 621-64-7 | N-Nitrosodi-n-propylamine   | 2920   |   | 33  | 11  |
| 86-30-6  | N-Nitrosodiphenylamine      | 2760   |   | 330 | 30  |
| 87-86-5  | Pentachlorophenol           | 5720   |   | 270 | 40  |
| 85-01-8  | Phenanthrene                | 2720   |   | 330 | 8.8 |
| 108-95-2 | Phenol                      | 2490   |   | 330 | 11  |
| 129-00-0 | Pyrene                      | 2870   |   | 330 | 15  |

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

|                                     |  |
|-------------------------------------|--|
| Lab Name: <u>TestAmerica Edison</u> | Job No.: <u>460-109716-1</u>             |
| SDG No.: _____                      |  |
| Client Sample ID: _____             | Lab Sample ID: <u>LCS 460-355001/2-A</u> |
| Matrix: <u>Solid</u>                | Lab File ID: <u>z41546.D</u>             |
| Analysis Method: <u>8270D</u>       | Date Collected: _____                    |
| Extract. Method: <u>3546</u>        | Date Extracted: <u>03/09/2016 13:54</u>  |
| Sample wt/vol: <u>15.0000 (g)</u>   | Date Analyzed: <u>03/10/2016 20:47</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>355365</u>   | Units: <u>ug/Kg</u>                      |

| CAS NO.   | SURROGATE                   | %REC | Q | LIMITS |
|-----------|-----------------------------|------|---|--------|
| 118-79-6  | 2,4,6-Tribromophenol (Surr) | 86   |   | 10-95  |
| 321-60-8  | 2-Fluorobiphenyl            | 76   |   | 27-84  |
| 367-12-4  | 2-Fluorophenol (Surr)       | 71   |   | 21-84  |
| 4165-60-0 | Nitrobenzene-d5 (Surr)      | 75   |   | 28-92  |
| 4165-62-2 | Phenol-d5 (Surr)            | 75   |   | 22-88  |
| 1718-51-0 | Terphenyl-d14 (Surr)        | 88   |   | 16-114 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160310-38294.b\z41546.D  
 Lims ID: LCS 460-355001/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 10-Mar-2016 20:47:30 ALS Bottle#: 5 Worklist Smp#: 5  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038294-005  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160310-38294.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 11-Mar-2016 13:22:06 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK027

First Level Reviewer: szczecha

Date: 11-Mar-2016 13:22:27

| 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  | 1.969     | 1.846         | 0.123         | 97 | 85180    | 50.0          | 18.9            |       |
| 2 N-Nitrosodimethylamine      | 74  | 2.193     | 2.093         | 0.100         | 90 | 207272   | 50.0          | 33.2            |       |
| 3 Pyridine                    | 79  | 2.222     | 2.116         | 0.106         | 88 | 294166   | 50.0          | 27.1            |       |
| \$ 4 2-Fluorophenol           | 112 | 3.304     | 3.269         | 0.035         | 93 | 363973   | 50.0          | 35.6            |       |
| \$ 6 Phenol-d5                | 99  | 4.198     | 4.204         | -0.006        | 95 | 462317   | 50.0          | 37.7            |       |
| 7 Phenol                      | 94  | 4.210     | 4.216         | -0.006        | 95 | 488750   | 50.0          | 37.4            |       |
| 8 Aniline                     | 93  | 4.210     | 4.216         | -0.006        | 92 | 377118   | 50.0          | 26.2            |       |
| 9 Bis(2-chloroethyl)ether     | 93  | 4.269     | 4.275         | -0.006        | 96 | 395538   | 50.0          | 39.6            |       |
| 10 Benzonitrile               | 103 | 4.304     | 4.304         | 0.000         | 0  | 743254   | NC            | NC              |       |
| 11 2-Chlorophenol             | 128 | 4.334     | 4.340         | -0.006        | 94 | 377395   | 50.0          | 38.7            |       |
| 12 n-Decane                   | 43  | 4.357     | 4.357         | 0.000         | 88 | 341703   | 50.0          | 27.6            |       |
| 13 1,3-Dichlorobenzene        | 146 | 4.475     | 4.475         | 0.000         | 94 | 418771   | 50.0          | 37.3            |       |
| * 14 1,4-Dichlorobenzene-d4   | 152 | 4.528     | 4.528         | 0.000         | 97 | 287870   | 40.0          | 40.0            |       |
| 15 1,4-Dichlorobenzene        | 146 | 4.545     | 4.551         | -0.006        | 93 | 428372   | 50.0          | 37.6            |       |
| 16 Benzyl alcohol             | 108 | 4.675     | 4.687         | -0.012        | 92 | 244457   | 50.0          | 47.7            |       |
| 17 1,2-Dichlorobenzene        | 146 | 4.698     | 4.704         | -0.006        | 95 | 398792   | 50.0          | 37.9            |       |
| 19 2,2'-oxybis[1-chloropropan | 45  | 4.793     | 4.804         | -0.011        | 94 | 459239   | 50.0          | 33.4            |       |
| 18 2-Methylphenol             | 108 | 4.798     | 4.804         | -0.006        | 88 | 349618   | 50.0          | 40.5            |       |
| 20 N-Methylaniline            | 106 | 4.928     | 4.934         | -0.006        | 0  | 603790   | NC            | NC              |       |
| 22 Acetophenone               | 105 | 4.940     | 4.951         | -0.011        | 93 | 498585   | 50.0          | 40.7            |       |
| 21 N-Nitrosodi-n-propylamine  | 70  | 4.940     | 4.951         | -0.011        | 86 | 281723   | 50.0          | 43.8            |       |
| 24 4-Methylphenol             | 108 | 4.957     | 4.969         | -0.012        | 94 | 360172   | 50.0          | 41.2            |       |
| 23 3 & 4 Methylphenol         | 108 | 4.957     | 4.969         | -0.012        | 97 | 360172   | 50.0          | 41.2            |       |
| 25 Hexachloroethane           | 117 | 5.034     | 5.040         | -0.006        | 93 | 158783   | 50.0          | 37.3            |       |
| \$ 26 Nitrobenzene-d5         | 82  | 5.093     | 5.098         | -0.006        | 90 | 426594   | 50.0          | 37.6            |       |
| 28 n,n'-Dimethylaniline       | 120 | 5.110     | 5.116         | -0.006        | 93 | 627280   | 50.0          | 50.0            |       |
| 27 Nitrobenzene               | 77  | 5.110     | 5.122         | -0.012        | 93 | 586164   | 50.0          | 39.3            |       |
| 31 Isophorone                 | 82  | 5.351     | 5.363         | -0.012        | 99 | 722906   | 50.0          | 41.4            |       |
| 32 2-Nitrophenol              | 139 | 5.428     | 5.434         | -0.006        | 89 | 204111   | 50.0          | 38.7            |       |
| 33 2,4-Dimethylphenol         | 122 | 5.487     | 5.493         | -0.005        | 89 | 318504   | 50.0          | 38.6            |       |
| 34 Bis(2-chloroethoxy)methane | 93  | 5.563     | 5.569         | -0.006        | 99 | 427728   | 50.0          | 39.2            |       |

| 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 | 5.645     | 5.651         | -0.006        | 86  | 136818   | 50.0          | 37.7            |       |
| 36 2,4-Dichlorophenol         | 162 | 5.681     | 5.687         | -0.006        | 95  | 293474   | 50.0          | 38.1            |       |
| 37 1,2,4-Trichlorobenzene     | 180 | 5.751     | 5.757         | -0.006        | 95  | 355297   | 50.0          | 38.5            |       |
| * 38 Naphthalene-d8           | 136 | 5.810     | 5.810         | 0.000         | 99  | 1068946  | 40.0          | 40.0            |       |
| 39 Naphthalene                | 128 | 5.828     | 5.840         | -0.012        | 99  | 1089815  | 50.0          | 38.7            |       |
| 40 4-Chloroaniline            | 127 | 5.898     | 5.904         | -0.006        | 95  | 174905   | 50.0          | 16.6            |       |
| 41 Hexachlorobutadiene        | 225 | 5.957     | 5.963         | -0.006        | 95  | 211448   | 50.0          | 38.7            |       |
| 43 4-Chloro-3-methylphenol    | 107 | 6.398     | 6.398         | 0.000         | 96  | 317251   | 50.0          | 42.0            |       |
| 44 2-Methylnaphthalene        | 142 | 6.522     | 6.528         | -0.006        | 85  | 705614   | 50.0          | 38.8            |       |
| 45 1-Methylnaphthalene        | 142 | 6.622     | 6.628         | -0.006        | 93  | 658069   | 50.0          | 42.2            |       |
| 46 Hexachlorocyclopentadiene  | 237 | 6.687     | 6.692         | -0.005        | 97  | 259744   | 50.0          | 60.7            |       |
| 47 1,2,4,5-Tetrachlorobenzene | 216 | 6.698     | 6.698         | 0.000         | 97  | 335285   | 50.0          | 38.5            |       |
| 48 2-tertbutyl-4-methylphenol | 149 | 6.734     | 6.739         | -0.005        | 90  | 531960   | 50.0          | 46.7            |       |
| 49 2,4,6-Trichlorophenol      | 196 | 6.822     | 6.822         | 0.000         | 90  | 216661   | 50.0          | 41.8            |       |
| 50 2,4,5-Trichlorophenol      | 196 | 6.863     | 6.863         | 0.000         | 96  | 215318   | 50.0          | 39.9            |       |
| \$ 51 2-Fluorobiphenyl        | 172 | 6.892     | 6.898         | -0.006        | 98  | 766987   | 50.0          | 38.2            |       |
| 52 1,1'-Biphenyl              | 154 | 6.992     | 6.998         | -0.006        | 95  | 831675   | 50.0          | 38.3            |       |
| 53 2-Chloronaphthalene        | 162 | 7.016     | 7.016         | 0.000         | 96  | 621585   | 50.0          | 38.2            |       |
| 54 Phenyl ether               | 170 | 7.092     | 7.098         | -0.006        | 85  | 454893   | 50.0          | 40.1            |       |
| 55 2-Nitroaniline             | 65  | 7.128     | 7.134         | -0.006        | 97  | 194127   | 50.0          | 38.6            |       |
| 57 1,3-Dimethylnaphthalene    | 156 | 7.228     | 7.234         | -0.006        | 91  | 561509   | 50.0          | 41.9            |       |
| 58 Dimethyl phthalate         | 163 | 7.310     | 7.310         | 0.000         | 99  | 671102   | 50.0          | 41.5            |       |
| 59 Coumarin                   | 146 | 7.334     | 7.339         | -0.005        | 77  | 225400   | 50.0          | 48.0            |       |
| 60 2,6-Dinitrotoluene         | 165 | 7.369     | 7.369         | 0.000         | 95  | 155947   | 50.0          | 41.7            |       |
| 63 Acenaphthylene             | 152 | 7.428     | 7.434         | -0.006        | 98  | 967958   | 50.0          | 40.8            |       |
| 64 3-Nitroaniline             | 138 | 7.539     | 7.545         | -0.006        | 91  | 85931    | 50.0          | 22.5            |       |
| * 65 Acenaphthene-d10         | 164 | 7.569     | 7.563         | 0.006         | 93  | 534841   | 40.0          | 40.0            |       |
| 66 3,5-di-tert-butyl-4-hydrox | 205 | 7.581     | 7.581         | 0.000         | 97  | 718756   | 50.0          | 48.2            |       |
| 67 Acenaphthene               | 154 | 7.604     | 7.604         | 0.000         | 94  | 599428   | 50.0          | 39.6            |       |
| 68 2,4-Dinitrophenol          | 184 | 7.639     | 7.645         | -0.006        | 96  | 164941   | 100.0         | 73.8            |       |
| 69 4-Nitrophenol              | 65  | 7.739     | 7.739         | 0.000         | 92  | 244155   | 100.0         | 93.6            |       |
| 70 2,4-Dinitrotoluene         | 165 | 7.769     | 7.769         | 0.000         | 94  | 197899   | 50.0          | 42.5            |       |
| 71 Dibenzofuran               | 168 | 7.775     | 7.775         | 0.000         | 95  | 854035   | 50.0          | 39.8            |       |
| 72 2,3,4,6-Tetrachlorophenol  | 232 | 7.904     | 7.904         | 0.000         | 95  | 168392   | 50.0          | 43.0            |       |
| 73 Diethyl phthalate          | 149 | 7.998     | 8.004         | -0.006        | 98  | 644669   | 50.0          | 42.8            |       |
| 75 4-Chlorophenyl phenyl ethe | 204 | 8.104     | 8.104         | 0.000         | 86  | 342646   | 50.0          | 41.7            |       |
| 74 Fluorene                   | 166 | 8.110     | 8.116         | -0.006        | 95  | 694586   | 50.0          | 41.2            |       |
| 76 4-Nitroaniline             | 138 | 8.157     | 8.163         | -0.006        | 90  | 114578   | 50.0          | 36.4            |       |
| 77 4,6-Dinitro-2-methylphenol | 198 | 8.175     | 8.181         | -0.006        | 87  | 212026   | 100.0         | 80.4            |       |
| 78 N-Nitrosodiphenylamine     | 169 | 8.228     | 8.234         | -0.006        | 66  | 468416   | 50.0          | 41.4            |       |
| 79 1,2-Diphenylhydrazine      | 77  | 8.263     | 8.269         | -0.006        | 97  | 697824   | 50.0          | 41.5            |       |
| \$ 80 2,4,6-Tribromophenol    | 330 | 8.351     | 8.357         | -0.006        | 94  | 95524    | 50.0          | 43.2            |       |
| 81 4-Bromophenyl phenyl ether | 248 | 8.586     | 8.592         | -0.006        | 89  | 198174   | 50.0          | 43.0            |       |
| 82 Hexachlorobenzene          | 284 | 8.657     | 8.663         | -0.006        | 97  | 195805   | 50.0          | 42.3            |       |
| 84 Pentachlorophenol          | 266 | 8.863     | 8.863         | 0.000         | 92  | 202436   | 100.0         | 85.9            |       |
| 85 Pentachloronitrobenzene    | 237 | 8.869     | 8.875         | -0.006        | 88  | 87352    | 50.0          | 48.7            |       |
| 86 n-Octadecane               | 57  | 8.910     | 8.910         | 0.000         | 91  | 520400   | 50.0          | 38.4            |       |
| * 87 Phenanthrene-d10         | 188 | 9.039     | 9.033         | 0.006         | 98  | 739265   | 40.0          | 40.0            |       |
| 88 Phenanthrene               | 178 | 9.063     | 9.063         | 0.000         | 97  | 875916   | 50.0          | 40.9            |       |
| 89 Anthracene                 | 178 | 9.110     | 9.116         | -0.006        | 99  | 914525   | 50.0          | 43.3            |       |
| 90 Carbazole                  | 167 | 9.275     | 9.275         | 0.000         | 96  | 670742   | 50.0          | 40.9            |       |
| 91 Di-n-butyl phthalate       | 149 | 9.598     | 9.604         | -0.006        | 100 | 876836   | 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 |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|---------------|-----------------|-------|
| 92 Fluoranthene                | 202 | 10.233    | 10.239        | -0.006        | 98 | 724864   | 50.0          | 41.0            |       |
| 93 Benzidine                   | 184 | 10.369    | 10.375        | -0.006        | 99 | 117635   | 50.0          | 19.9            |       |
| 94 Pyrene                      | 202 | 10.469    | 10.475        | -0.006        | 98 | 693268   | 50.0          | 43.1            |       |
| 95 Bisphenol-A                 | 213 | 10.533    | 10.533        | 0.000         | 99 | 107243   | 25.0          | 38.6            |       |
| \$ 96 Terphenyl-d14            | 244 | 10.622    | 10.627        | -0.005        | 99 | 502452   | 50.0          | 44.1            |       |
| 97 Butyl benzyl phthalate      | 149 | 11.157    | 11.163        | -0.006        | 98 | 255143   | 50.0          | 44.2            |       |
| 99 Carbamazepine               | 193 | 11.304    | 11.304        | 0.000         | 92 | 156773   | 50.0          | 42.1            |       |
| 100 3,3'-Dichlorobenzidine     | 252 | 11.810    | 11.816        | -0.006        | 99 | 67508    | 50.0          | 20.0            |       |
| 101 Benzo[a]anthracene         | 228 | 11.839    | 11.845        | -0.006        | 99 | 437120   | 50.0          | 40.9            |       |
| * 102 Chrysene-d12             | 240 | 11.857    | 11.851        | 0.006         | 99 | 358141   | 40.0          | 40.0            |       |
| 104 Bis(2-ethylhexyl) phthalat | 149 | 11.857    | 11.863        | -0.006        | 89 | 348128   | 50.0          | 45.0            |       |
| 103 Chrysene                   | 228 | 11.892    | 11.892        | 0.000         | 99 | 411736   | 50.0          | 42.7            |       |
| 105 Di-n-octyl phthalate       | 149 | 12.733    | 12.733        | 0.000         | 97 | 474383   | 50.0          | 48.1            |       |
| 106 Benzo[b]fluoranthene       | 252 | 13.286    | 13.286        | 0.000         | 98 | 322961   | 50.0          | 43.1            |       |
| 107 Benzo[k]fluoranthene       | 252 | 13.321    | 13.327        | -0.006        | 99 | 311767   | 50.0          | 41.6            |       |
| 108 Benzo[a]pyrene             | 252 | 13.739    | 13.739        | 0.000         | 98 | 280822   | 50.0          | 42.6            |       |
| * 109 Perylene-d12             | 264 | 13.821    | 13.816        | 0.005         | 99 | 233116   | 40.0          | 40.0            |       |
| 110 Indeno[1,2,3-cd]pyrene     | 276 | 15.409    | 15.415        | -0.006        | 99 | 218220   | 50.0          | 40.3            |       |
| 111 Dibenz(a,h)anthracene      | 278 | 15.445    | 15.451        | -0.006        | 97 | 207408   | 50.0          | 39.3            |       |
| 112 Benzo[g,h,i]perylene       | 276 | 15.868    | 15.868        | 0.000         | 98 | 205495   | 50.0          | 35.4            |       |

## QC Flag Legend

Processing Flags

NC - Not Calibrated

## Reagents:

SM\_ISTD\_00105

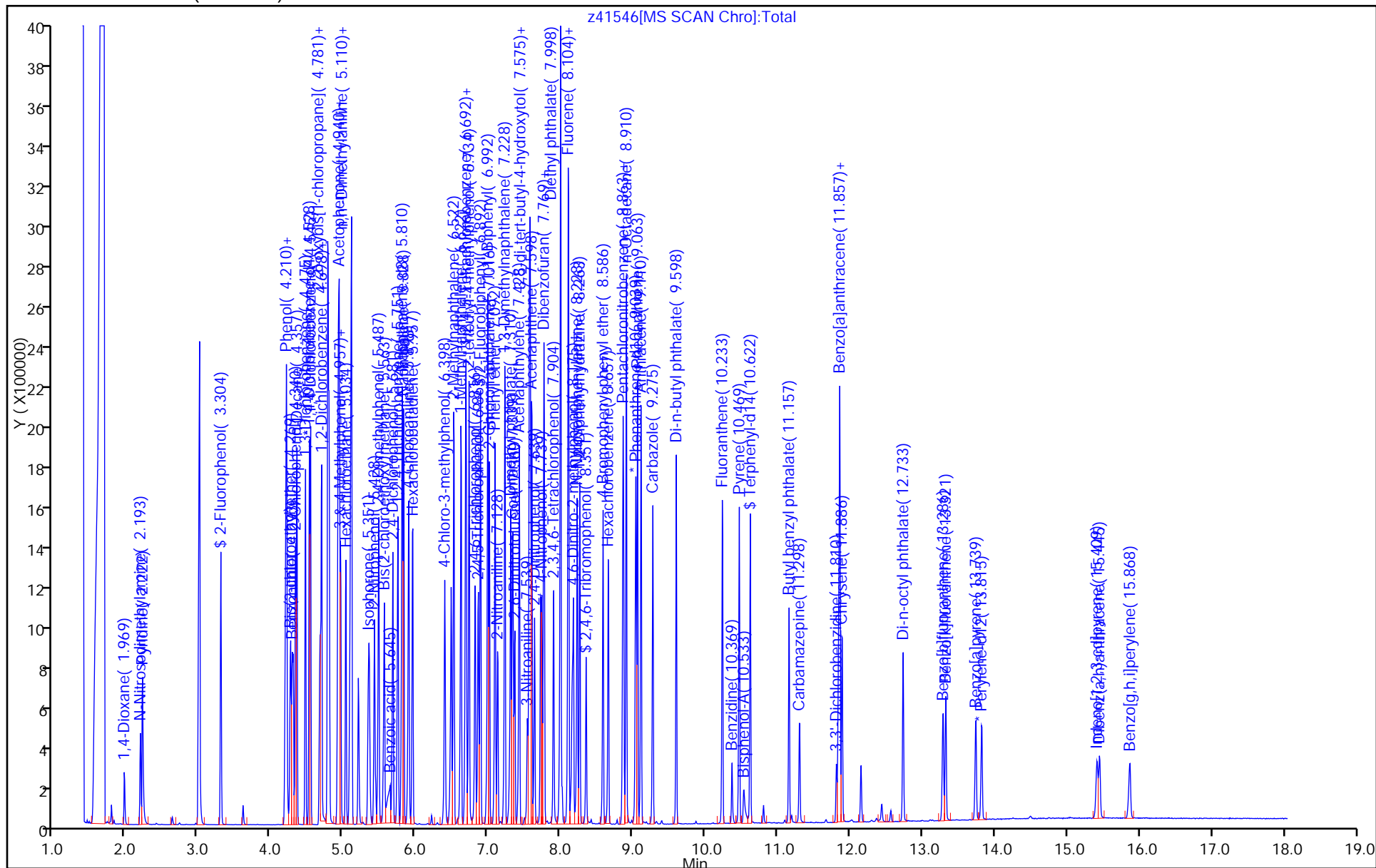
Amount Added: 20.00

Units: uL

Run Reagent

|                 |  |                |               |
|-----------------|--|----------------|---------------|
| Data File:      | \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160310-38294.b\\z41546.D |                |               |
| Injection Date: | 10-Mar-2016 20:47:30   | Instrument ID: | CBNAMS11      |
| Lims ID:        | LCS 460-355001/2-A   |                |               |
| Client ID:      |  |                |               |
| Injection Vol:  | 1.0 ul   | Dil. Factor:   | 1.0000        |
| Method:         | 8270_11R_9   | Limit Group:   | SV 8270D ICAL |
| Column:         | Rtxi-5Sil MS ( 0.25 mm)  |                |               |

Operator ID:  
Worklist Smp#: 5  
ALS Bottle#: 5



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 460-355001/3-A  
 Matrix: Solid Lab File ID: z41578.D  
 Analysis Method: 8270D Date Collected: \_\_\_\_\_  
 Extract. Method: 3546 Date Extracted: 03/09/2016 13:54  
 Sample wt/vol: 15.0000 (g) Date Analyzed: 03/11/2016 09:57  
 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.: 355488 Units: ug/Kg

| CAS NO.   | COMPOUND NAME | RESULT | Q | RL  | MDL |
|-----------|---------------|--------|---|-----|-----|
| 1912-24-9 | Atrazine      | 5740   |   | 130 | 15  |
| 100-52-7  | Benzaldehyde  | 5080   |   | 330 | 25  |
| 105-60-2  | Caprolactam   | 6720   |   | 330 | 24  |

| CAS NO.   | SURROGATE                   | %REC | Q | LIMITS |
|-----------|-----------------------------|------|---|--------|
| 118-79-6  | 2,4,6-Tribromophenol (Surr) | 83   |   | 10-95  |
| 321-60-8  | 2-Fluorobiphenyl            | 79   |   | 27-84  |
| 367-12-4  | 2-Fluorophenol (Surr)       | 74   |   | 21-84  |
| 4165-60-0 | Nitrobenzene-d5 (Surr)      | 81   |   | 28-92  |
| 4165-62-2 | Phenol-d5 (Surr)            | 78   |   | 22-88  |
| 1718-51-0 | Terphenyl-d14 (Surr)        | 89   |   | 16-114 |



TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160311-38326.b\z41578.D  
 Lims ID: LCS 460-355001/3-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 11-Mar-2016 09:57:30 ALS Bottle#: 6 Worklist Smp#: 6  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 460-0038326-006  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160311-38326.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 11-Mar-2016 13:46:19 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK027

First Level Reviewer: szczech

Date: 11-Mar-2016 13:46:37

| Compound                    | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|-----------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| \$ 4 2-Fluorophenol         | 112 | 3.257        | 3.228            | 0.029            | 93  | 347927   | 50.0             | 36.9               |       |
| 5 Benzaldehyde              | 77  | 4.057        | 4.045            | 0.012            | 96  | 600962   | 100.0            | 76.2               |       |
| \$ 6 Phenol-d5              | 99  | 4.134        | 4.157            | -0.023           | 87  | 442842   | 50.0             | 39.2               |       |
| * 14 1,4-Dichlorobenzene-d4 | 152 | 4.469        | 4.469            | 0.000            | 98  | 265725   | 40.0             | 40.0               |       |
| \$ 26 Nitrobenzene-d5       | 82  | 5.028        | 5.051            | -0.023           | 89  | 432064   | 50.0             | 40.5               |       |
| * 38 Naphthalene-d8         | 136 | 5.745        | 5.751            | -0.006           | 100 | 1002909  | 40.0             | 40.0               |       |
| 42 Caprolactam              | 113 | 6.187        | 6.175            | 0.012            | 91  | 213206   | 100.0            | 100.8              |       |
| \$ 51 2-Fluorobiphenyl      | 172 | 6.822        | 6.839            | -0.017           | 98  | 771298   | 50.0             | 39.4               |       |
| * 65 Acenaphthene-d10       | 164 | 7.492        | 7.498            | -0.006           | 93  | 520583   | 40.0             | 40.0               |       |
| \$ 80 2,4,6-Tribromophenol  | 330 | 8.275        | 8.292            | -0.017           | 94  | 89137    | 50.0             | 41.4               |       |
| 83 Atrazine                 | 200 | 8.686        | 8.686            | 0.000            | 94  | 331394   | 100.0            | 86.1               |       |
| * 87 Phenanthrene-d10       | 188 | 8.957        | 8.963            | -0.006           | 98  | 732264   | 40.0             | 40.0               |       |
| \$ 96 Terphenyl-d14         | 244 | 10.528       | 10.545           | -0.017           | 99  | 477154   | 50.0             | 44.7               |       |
| * 102 Chrysene-d12          | 240 | 11.739       | 11.751           | -0.012           | 99  | 335775   | 40.0             | 40.0               |       |
| * 109 Perylene-d12          | 264 | 13.686       | 13.698           | -0.012           | 99  | 225765   | 40.0             | 40.0               |       |

## Reagents:

SM\_ISTD\_00105 Amount Added: 20.00 Units: uL Run Reagent

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160311-38326.b\\z41578.D

Injection Date: 11-Mar-2016 09:57:30

Instrument ID: CBNAMS11

Operator ID:

Lims ID: LCS 460-355001/3-A

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

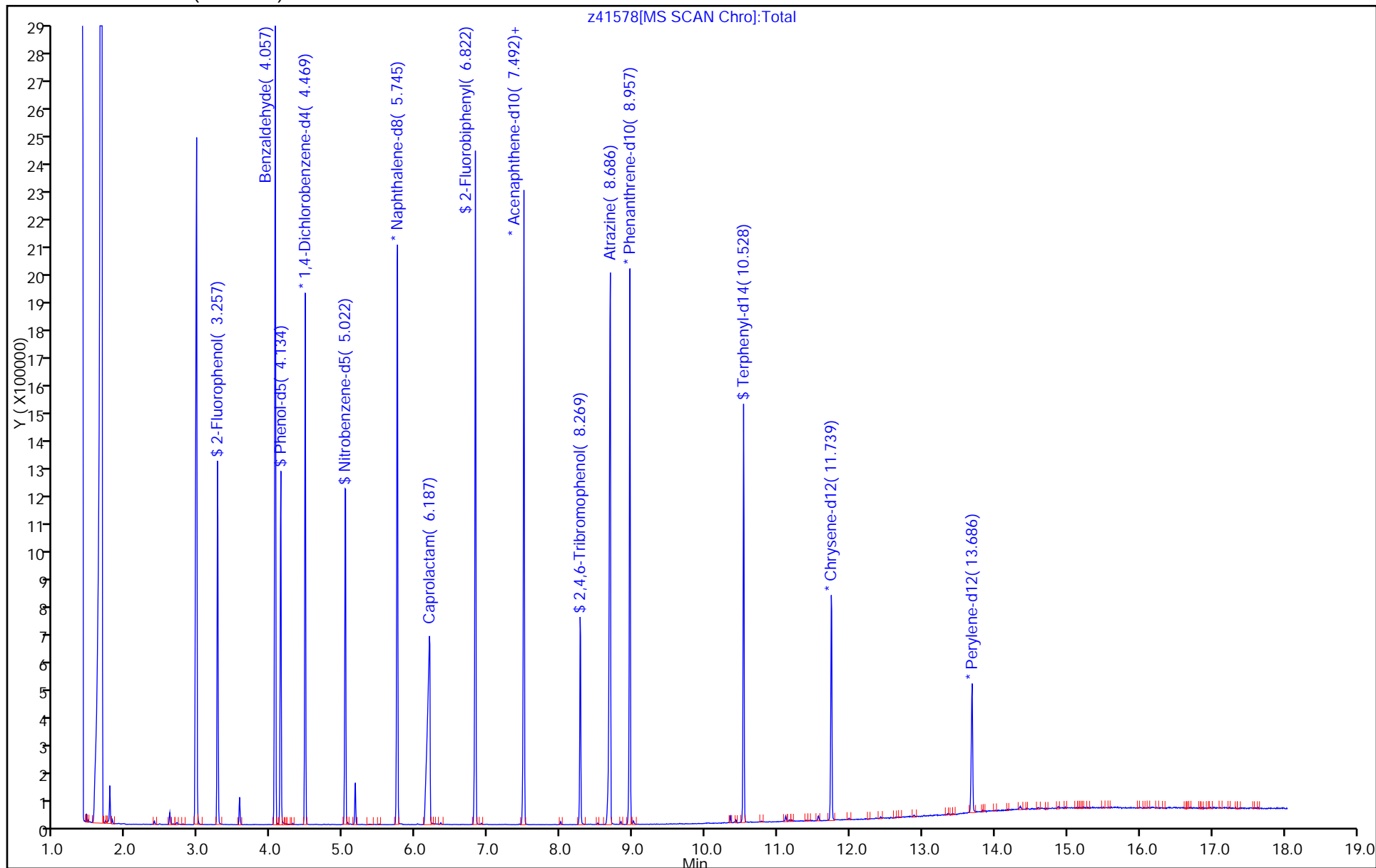
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8270\_11R\_9

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>460-109716-1</u>                 |
| SDG No.: _____                      |  |
| Client Sample ID: _____             | Lab Sample ID: <u>460-109462-E-1-C MS DL</u> |
| Matrix: <u>Solid</u>                | Lab File ID: <u>z41591.D</u>                 |
| Analysis Method: <u>8270D</u>       | Date Collected: <u>02/25/2016 11:55</u>      |
| Extract. Method: <u>3546</u>        | Date Extracted: <u>03/09/2016 13:54</u>      |
| Sample wt/vol: <u>15.0214(g)</u>    | Date Analyzed: <u>03/11/2016 15:09</u>       |
| Con. Extract Vol.: <u>1(mL)</u>     | Dilution Factor: <u>10</u>                   |
| Injection Volume: <u>1(uL)</u>      | Level: (low/med) <u>Low</u>                  |
| % Moisture: <u>6.4</u>              | GPC Cleanup: (Y/N) <u>N</u>                  |
| Analysis Batch No.: <u>355488</u>   | Units: <u>ug/Kg</u>                          |

| CAS NO.   | COMPOUND NAME                | RESULT | Q | RL   | MDL  |
|-----------|------------------------------|--------|---|------|------|
| 92-52-4   | 1,1'-Biphenyl                | 2180   | J | 3500 | 300  |
| 95-94-3   | 1,2,4,5-Tetrachlorobenzene   | 2140   | J | 3500 | 260  |
| 108-60-1  | 2,2'-oxybis[1-chloropropane] | 1730   | J | 3500 | 150  |
| 58-90-2   | 2,3,4,6-Tetrachlorophenol    | 1650   | J | 3500 | 330  |
| 95-95-4   | 2,4,5-Trichlorophenol        | 1880   | J | 3500 | 350  |
| 88-06-2   | 2,4,6-Trichlorophenol        | 2240   |   | 1400 | 100  |
| 120-83-2  | 2,4-Dichlorophenol           | 1920   |   | 1400 | 83   |
| 105-67-9  | 2,4-Dimethylphenol           | 2100   | J | 3500 | 780  |
| 51-28-5   | 2,4-Dinitrophenol            | 2800   | U | 2800 | 2700 |
| 121-14-2  | 2,4-Dinitrotoluene           | 2200   |   | 710  | 140  |
| 606-20-2  | 2,6-Dinitrotoluene           | 2690   |   | 710  | 190  |
| 91-58-7   | 2-Chloronaphthalene          | 2140   | J | 3500 | 80   |
| 95-57-8   | 2-Chlorophenol               | 1870   | J | 3500 | 90   |
| 91-57-6   | 2-Methylnaphthalene          | 1850   | J | 3500 | 78   |
| 95-48-7   | 2-Methylphenol               | 1940   | J | 3500 | 150  |
| 88-74-4   | 2-Nitroaniline               | 2050   | J | 3500 | 120  |
| 88-75-5   | 2-Nitrophenol                | 1750   | J | 3500 | 120  |
| 91-94-1   | 3,3'-Dichlorobenzidine       | 1350   | J | 1400 | 390  |
| 99-09-2   | 3-Nitroaniline               | 2200   | J | 3500 | 100  |
| 534-52-1  | 4,6-Dinitro-2-methylphenol   | 2800   | U | 2800 | 940  |
| 101-55-3  | 4-Bromophenyl phenyl ether   | 2350   | J | 3500 | 110  |
| 59-50-7   | 4-Chloro-3-methylphenol      | 1890   | J | 3500 | 150  |
| 106-47-8  | 4-Chloroaniline              | 964    | J | 3500 | 91   |
| 7005-72-3 | 4-Chlorophenyl phenyl ether  | 1940   | J | 3500 | 110  |
| 106-44-5  | 4-Methylphenol               | 1880   | J | 3500 | 96   |
| 100-01-6  | 4-Nitroaniline               | 1760   | J | 3500 | 130  |
| 100-02-7  | 4-Nitrophenol                | 3690   | J | 7100 | 1700 |
| 83-32-9   | Acenaphthene                 | 2020   | J | 3500 | 85   |
| 208-96-8  | Acenaphthylene               | 2150   | J | 3500 | 91   |
| 98-86-2   | Acetophenone                 | 1840   | J | 3500 | 77   |
| 120-12-7  | Anthracene                   | 2010   | J | 3500 | 330  |
| 1912-24-9 | Atrazine                     | 4270   |   | 1400 | 160  |
| 100-52-7  | Benzaldehyde                 | 3200   | J | 3500 | 270  |
| 56-55-3   | Benzo[a]anthracene           | 2500   |   | 350  | 290  |

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

|                                     |  |
|-------------------------------------|--|
| Lab Name: <u>TestAmerica Edison</u> | Job No.: <u>460-109716-1</u>                 |
| SDG No.: _____                      |  |
| Client Sample ID: _____             | Lab Sample ID: <u>460-109462-E-1-C MS DL</u> |
| Matrix: <u>Solid</u>                | Lab File ID: <u>z41591.D</u>                 |
| Analysis Method: <u>8270D</u>       | Date Collected: <u>02/25/2016 11:55</u>      |
| Extract. Method: <u>3546</u>        | Date Extracted: <u>03/09/2016 13:54</u>      |
| Sample wt/vol: <u>15.0214(g)</u>    | Date Analyzed: <u>03/11/2016 15:09</u>       |
| Con. Extract Vol.: <u>1(mL)</u>     | Dilution Factor: <u>10</u>                   |
| Injection Volume: <u>1(uL)</u>      | Level: (low/med) <u>Low</u>                  |
| % Moisture: <u>6.4</u>              | GPC Cleanup: (Y/N) <u>N</u>                  |
| Analysis Batch No.: <u>355488</u>   | Units: <u>ug/Kg</u>                          |

| CAS NO.  | COMPOUND NAME               | RESULT | Q | RL   | MDL |
|----------|-----------------------------|--------|---|------|-----|
| 50-32-8  | Benzo[a]pyrene              | 3250   |   | 350  | 110 |
| 205-99-2 | Benzo[b]fluoranthene        | 3440   |   | 350  | 140 |
| 191-24-2 | Benzo[g,h,i]perylene        | 4030   |   | 3500 | 200 |
| 207-08-9 | Benzo[k]fluoranthene        | 2260   |   | 350  | 150 |
| 111-91-1 | Bis(2-chloroethoxy)methane  | 2080   | J | 3500 | 110 |
| 111-44-4 | Bis(2-chloroethyl)ether     | 1760   |   | 350  | 83  |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 2090   | J | 3500 | 140 |
| 85-68-7  | Butyl benzyl phthalate      | 2430   | J | 3500 | 110 |
| 105-60-2 | Caprolactam                 | 2770   | J | 3500 | 250 |
| 86-74-8  | Carbazole                   | 2140   | J | 3500 | 87  |
| 218-01-9 | Chrysene                    | 3120   | J | 3500 | 96  |
| 53-70-3  | Dibenz(a,h)anthracene       | 3140   |   | 350  | 180 |
| 132-64-9 | Dibenzofuran                | 1990   | J | 3500 | 110 |
| 84-66-2  | Diethyl phthalate           | 2340   | J | 3500 | 100 |
| 131-11-3 | Dimethyl phthalate          | 2570   | J | 3500 | 100 |
| 84-74-2  | Di-n-butyl phthalate        | 2230   | J | 3500 | 110 |
| 117-84-0 | Di-n-octyl phthalate        | 1670   | J | 3500 | 180 |
| 206-44-0 | Fluoranthene                | 2810   | J | 3500 | 100 |
| 86-73-7  | Fluorene                    | 1880   | J | 3500 | 77  |
| 118-74-1 | Hexachlorobenzene           | 1950   |   | 350  | 140 |
| 87-68-3  | Hexachlorobutadiene         | 1970   |   | 710  | 99  |
| 77-47-4  | Hexachlorocyclopentadiene   | 1600   | J | 3500 | 220 |
| 67-72-1  | Hexachloroethane            | 1650   |   | 350  | 130 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene      | 4920   |   | 350  | 230 |
| 78-59-1  | Isophorone                  | 2140   |   | 1400 | 76  |
| 91-20-3  | Naphthalene                 | 1960   | J | 3500 | 90  |
| 98-95-3  | Nitrobenzene                | 2080   |   | 350  | 110 |
| 621-64-7 | N-Nitrosodi-n-propylamine   | 2110   |   | 350  | 120 |
| 86-30-6  | N-Nitrosodiphenylamine      | 2400   | J | 3500 | 320 |
| 87-86-5  | Pentachlorophenol           | 4280   |   | 2800 | 430 |
| 85-01-8  | Phenanthrene                | 2240   | J | 3500 | 94  |
| 108-95-2 | Phenol                      | 1800   | J | 3500 | 120 |
| 129-00-0 | Pyrene                      | 4010   |   | 3500 | 160 |

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

|                                     |  |
|-------------------------------------|--|
| Lab Name: <u>TestAmerica Edison</u> | Job No.: <u>460-109716-1</u>                 |
| SDG No.: _____                      |  |
| Client Sample ID: _____             | Lab Sample ID: <u>460-109462-E-1-C MS DL</u> |
| Matrix: <u>Solid</u>                | Lab File ID: <u>z41591.D</u>                 |
| Analysis Method: <u>8270D</u>       | Date Collected: <u>02/25/2016 11:55</u>      |
| Extract. Method: <u>3546</u>        | Date Extracted: <u>03/09/2016 13:54</u>      |
| Sample wt/vol: <u>15.0214(g)</u>    | Date Analyzed: <u>03/11/2016 15:09</u>       |
| Con. Extract Vol.: <u>1(mL)</u>     | Dilution Factor: <u>10</u>                   |
| Injection Volume: <u>1(uL)</u>      | Level: (low/med) <u>Low</u>                  |
| % Moisture: <u>6.4</u>              | GPC Cleanup: (Y/N) <u>N</u>                  |
| Analysis Batch No.: <u>355488</u>   | Units: <u>ug/Kg</u>                          |

| CAS NO.   | SURROGATE                   | %REC | Q | LIMITS |
|-----------|-----------------------------|------|---|--------|
| 118-79-6  | 2,4,6-Tribromophenol (Surr) | 50   |   | 10-95  |
| 321-60-8  | 2-Fluorobiphenyl            | 61   |   | 27-84  |
| 367-12-4  | 2-Fluorophenol (Surr)       | 51   |   | 21-84  |
| 4165-60-0 | Nitrobenzene-d5 (Surr)      | 56   |   | 28-92  |
| 4165-62-2 | Phenol-d5 (Surr)            | 53   |   | 22-88  |
| 1718-51-0 | Terphenyl-d14 (Surr)        | 51   |   | 16-114 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160311-38326.b\z41591.D  
 Lims ID: 460-109462-E-1-C MS  
 Client ID:  
 Sample Type: MS  
 Inject. Date: 11-Mar-2016 15:09:30 ALS Bottle#: 19 Worklist Smp#: 19  
 Injection Vol: 1.0 ul Dil. Factor: 10.0000  
 Sample Info: 460-0038326-019  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160311-38326.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 14-Mar-2016 12:11:36 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK051

First Level Reviewer: phoonnays

Date: 14-Mar-2016 11:28:18

| 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  | 1.834     | 1.816         | 0.018         | 97 | 5345     | 5.00          | 1.67            |       |
| 2 N-Nitrosodimethylamine      | 74  | 2.069     | 2.057         | 0.012         | 83 | 10638    | 5.00          | 2.41            |       |
| 3 Pyridine                    | 79  | 2.116     | 2.081         | 0.035         | 84 | 8969     | 5.00          | 1.17            |       |
| \$ 4 2-Fluorophenol           | 112 | 3.222     | 3.228         | -0.006        | 93 | 18601    | 5.00          | 2.57            |       |
| 5 Benzaldehyde                | 77  | 4.040     | 4.045         | -0.005        | 96 | 27231    | 10.0          | 4.50            |       |
| \$ 6 Phenol-d5                | 99  | 4.122     | 4.157         | -0.035        | 89 | 22866    | 5.00          | 2.63            |       |
| 7 Phenol                      | 94  | 4.134     | 4.169         | -0.035        | 97 | 23488    | 5.00          | 2.54            |       |
| 8 Aniline                     | 93  | 4.145     | 4.169         | -0.024        | 92 | 10809    | 5.00          | 1.06            |       |
| 9 Bis(2-chloroethyl)ether     | 93  | 4.198     | 4.222         | -0.024        | 95 | 17553    | 5.00          | 2.48            |       |
| 10 Benzonitrile               | 103 | 4.263     | 4.257         | 0.006         | 0  | 142      | NC            | NC              |       |
| 11 2-Chlorophenol             | 128 | 4.269     | 4.292         | -0.023        | 93 | 18177    | 5.00          | 2.63            |       |
| 12 n-Decane                   | 43  | 4.298     | 4.310         | -0.012        | 88 | 17435    | 5.00          | 1.99            |       |
| 13 1,3-Dichlorobenzene        | 146 | 4.410     | 4.428         | -0.018        | 93 | 19550    | 5.00          | 2.46            |       |
| * 14 1,4-Dichlorobenzene-d4   | 152 | 4.469     | 4.469         | 0.000         | 98 | 203960   | 4.00          | 40.0            |       |
| 15 1,4-Dichlorobenzene        | 146 | 4.481     | 4.498         | -0.017        | 92 | 20019    | 5.00          | 2.48            |       |
| 16 Benzyl alcohol             | 108 | 4.604     | 4.634         | -0.030        | 91 | 10497    | 5.00          | 5.42            |       |
| 17 1,2-Dichlorobenzene        | 146 | 4.639     | 4.651         | -0.012        | 94 | 18411    | 5.00          | 2.47            |       |
| 19 2,2'-oxybis[1-chloropropan | 45  | 4.734     | 4.751         | -0.017        | 95 | 23720    | 5.00          | 2.44            |       |
| 18 2-Methylphenol             | 108 | 4.728     | 4.757         | -0.029        | 87 | 16677    | 5.00          | 2.73            |       |
| 20 N-Methylaniline            | 106 | 4.857     | 4.881         | -0.024        | 0  | 24487    | NC            | NC              |       |
| 21 N-Nitrosodi-n-propylamine  | 70  | 4.863     | 4.898         | -0.035        | 89 | 13526    | 5.00          | 2.97            |       |
| 22 Acetophenone               | 105 | 4.869     | 4.898         | -0.029        | 93 | 22498    | 5.00          | 2.59            |       |
| 23 3 & 4 Methylphenol         | 108 | 4.887     | 4.922         | -0.035        | 94 | 16373    | 5.00          | 2.65            |       |
| 24 4-Methylphenol             | 108 | 4.887     | 4.922         | -0.035        | 95 | 16373    | 5.00          | 2.65            |       |
| 29 2-Toluidine                | 107 | 4.857     | 4.947         | -0.090        | 88 | 18537    |               | NC              |       |
| 25 Hexachloroethane           | 117 | 4.975     | 4.987         | -0.012        | 90 | 7020     | 5.00          | 2.33            |       |
| \$ 26 Nitrobenzene-d5         | 82  | 5.022     | 5.051         | -0.029        | 90 | 19724    | 5.00          | 2.82            |       |
| 28 n,n'-Dimethylaniline       | 120 | 5.039     | 5.063         | -0.024        | 95 | 26024    | 5.00          | 2.93            |       |
| 27 Nitrobenzene               | 77  | 5.039     | 5.069         | -0.030        | 93 | 26843    | 5.00          | 2.92            |       |
| 31 Isophorone                 | 82  | 5.275     | 5.310         | -0.035        | 99 | 32425    | 5.00          | 3.01            |       |
| 32 2-Nitrophenol              | 139 | 5.363     | 5.381         | -0.018        | 91 | 7979     | 5.00          | 2.46            |       |

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|---------------|-----------------|-------|
| 33 2,4-Dimethylphenol         | 122 | 5.410     | 5.439         | -0.029        | 89  | 14966    | 5.00          | 2.95            |       |
| 34 Bis(2-chloroethoxy)methane | 93  | 5.492     | 5.516         | -0.024        | 99  | 19613    | 5.00          | 2.92            |       |
| 35 Benzoic acid               | 122 | 5.592     | 5.598         | -0.006        | 1   | 59       | 5.00          | 5.18            |       |
| 36 2,4-Dichlorophenol         | 162 | 5.610     | 5.634         | -0.024        | 94  | 12823    | 5.00          | 2.70            |       |
| 37 1,2,4-Trichlorobenzene     | 180 | 5.681     | 5.704         | -0.023        | 94  | 15498    | 5.00          | 2.73            |       |
| * 38 Naphthalene-d8           | 136 | 5.739     | 5.751         | -0.012        | 100 | 658253   | 4.00          | 40.0            |       |
| 39 Naphthalene                | 128 | 5.763     | 5.781         | -0.018        | 99  | 47765    | 5.00          | 2.76            |       |
| 40 4-Chloroaniline            | 127 | 5.822     | 5.851         | -0.029        | 95  | 8779     | 5.00          | 1.36            |       |
| 41 Hexachlorobutadiene        | 225 | 5.886     | 5.904         | -0.018        | 94  | 9335     | 5.00          | 2.77            |       |
| 42 Caprolactam                | 113 | 6.139     | 6.175         | -0.036        | 93  | 5414     | 10.0          | 3.90            |       |
| 43 4-Chloro-3-methylphenol    | 107 | 6.322     | 6.345         | -0.023        | 96  | 12323    | 5.00          | 2.65            |       |
| 44 2-Methylnaphthalene        | 142 | 6.451     | 6.469         | -0.018        | 84  | 29083    | 5.00          | 2.60            |       |
| 45 1-Methylnaphthalene        | 142 | 6.551     | 6.569         | -0.018        | 92  | 25517    | 5.00          | 2.66            |       |
| 46 Hexachlorocyclopentadiene  | 237 | 6.616     | 6.633         | -0.017        | 95  | 3574     | 5.00          | 2.25            |       |
| 47 1,2,4,5-Tetrachlorobenzene | 216 | 6.622     | 6.639         | -0.017        | 95  | 12625    | 5.00          | 3.02            |       |
| 48 2-tertbutyl-4-methylphenol | 149 | 6.657     | 6.681         | -0.024        | 89  | 23706    | 5.00          | 3.38            |       |
| 49 2,4,6-Trichlorophenol      | 196 | 6.745     | 6.763         | -0.018        | 91  | 7858     | 5.00          | 3.15            |       |
| 50 2,4,5-Trichlorophenol      | 196 | 6.786     | 6.804         | -0.018        | 96  | 6863     | 5.00          | 2.64            |       |
| \$ 51 2-Fluorobiphenyl        | 172 | 6.816     | 6.839         | -0.023        | 98  | 29508    | 5.00          | 3.05            |       |
| 52 1,1'-Biphenyl              | 154 | 6.916     | 6.939         | -0.023        | 94  | 32027    | 5.00          | 3.07            |       |
| 53 2-Chloronaphthalene        | 162 | 6.933     | 6.957         | -0.024        | 96  | 23524    | 5.00          | 3.01            |       |
| 54 Phenyl ether               | 170 | 7.016     | 7.033         | -0.017        | 86  | 16700    | 5.00          | 3.06            |       |
| 55 2-Nitroaniline             | 65  | 7.045     | 7.069         | -0.024        | 95  | 6999     | 5.00          | 2.89            |       |
| 62 2-Naphthylamine            | 143 | 7.210     | 7.151         | 0.059         | 1   | 229      |               | NC              |       |
| 61 1-Naphthylamine            | 143 | 7.145     | 7.151         | -0.006        | 20  | 204      |               | NC              |       |
| 57 1,3-Dimethylnaphthalene    | 156 | 7.151     | 7.175         | -0.024        | 91  | 20763    | 5.00          | 3.22            |       |
| 58 Dimethyl phthalate         | 163 | 7.216     | 7.251         | -0.035        | 99  | 28109    | 5.00          | 3.61            |       |
| 59 Coumarin                   | 146 | 7.245     | 7.275         | -0.030        | 76  | 8578     | 5.00          | 2.97            |       |
| 60 2,6-Dinitrotoluene         | 165 | 7.275     | 7.310         | -0.035        | 95  | 6804     | 5.00          | 3.78            |       |
| 63 Acenaphthylene             | 152 | 7.345     | 7.369         | -0.024        | 98  | 34568    | 5.00          | 3.03            |       |
| 64 3-Nitroaniline             | 138 | 7.451     | 7.481         | -0.029        | 88  | 5680     | 5.00          | 3.09            |       |
| * 65 Acenaphthene-d10         | 164 | 7.486     | 7.498         | -0.012        | 92  | 257350   | 4.00          | 40.0            |       |
| 66 3,5-di-tert-butyl-4-hydrox | 205 | 7.498     | 7.522         | -0.024        | 97  | 24404    | 5.00          | 3.40            |       |
| 67 Acenaphthene               | 154 | 7.516     | 7.539         | -0.023        | 94  | 20678    | 5.00          | 2.84            |       |
| 69 4-Nitrophenol              | 65  | 7.645     | 7.680         | -0.035        | 89  | 6515     | 10.0          | 5.19            |       |
| 70 2,4-Dinitrotoluene         | 165 | 7.675     | 7.704         | -0.029        | 94  | 6948     | 5.00          | 3.10            |       |
| 71 Dibenzofuran               | 168 | 7.686     | 7.710         | -0.024        | 95  | 28899    | 5.00          | 2.80            |       |
| 72 2,3,4,6-Tetrachlorophenol  | 232 | 7.822     | 7.839         | -0.017        | 90  | 4386     | 5.00          | 2.33            |       |
| 73 Diethyl phthalate          | 149 | 7.910     | 7.939         | -0.029        | 98  | 23796    | 5.00          | 3.29            |       |
| 75 4-Chlorophenyl phenyl ethe | 204 | 8.022     | 8.039         | -0.017        | 84  | 10797    | 5.00          | 2.73            |       |
| 74 Fluorene                   | 166 | 8.027     | 8.051         | -0.024        | 97  | 21400    | 5.00          | 2.64            |       |
| 76 4-Nitroaniline             | 138 | 8.057     | 8.098         | -0.041        | 91  | 3740     | 5.00          | 2.47            |       |
| 78 N-Nitrosodiphenylamine     | 169 | 8.139     | 8.169         | -0.030        | 65  | 15971    | 5.00          | 3.37            |       |
| 79 1,2-Diphenylhydrazine      | 77  | 8.175     | 8.204         | -0.029        | 96  | 22054    | 5.00          | 3.13            |       |
| \$ 80 2,4,6-Tribromophenol    | 330 | 8.269     | 8.292         | -0.023        | 92  | 2652     | 5.00          | 2.49            |       |
| 81 4-Bromophenyl phenyl ether | 248 | 8.498     | 8.522         | -0.024        | 87  | 6373     | 5.00          | 3.30            |       |
| 82 Hexachlorobenzene          | 284 | 8.575     | 8.598         | -0.023        | 95  | 5318     | 5.00          | 2.74            |       |
| 83 Atrazine                   | 200 | 8.663     | 8.686         | -0.023        | 92  | 9766     | 10.0          | 6.00            |       |
| 84 Pentachlorophenol          | 266 | 8.775     | 8.798         | -0.024        | 81  | 2648     | 10.0          | 6.02            |       |
| 85 Pentachloronitrobenzene    | 237 | 8.780     | 8.804         | -0.024        | 83  | 2206     | 5.00          | 2.93            |       |
| 86 n-Octadecane               | 57  | 8.822     | 8.839         | -0.017        | 92  | 13529    | 5.00          | 2.38            |       |
| * 87 Phenanthrene-d10         | 188 | 8.951     | 8.963         | -0.012        | 98  | 309751   | 4.00          | 40.0            |       |

| Compound                       | Sig | RT<br>(min.) | Adj RT<br>(min.) | Dlt RT<br>(min.) | Q   | Response | Cal Amt<br>ug/ml | OnCol Amt<br>ug/ml | Flags |
|--------------------------------|-----|--------------|------------------|------------------|-----|----------|------------------|--------------------|-------|
| 88 Phenanthrene                | 178 | 8.969        | 8.992            | -0.023           | 98  | 28330    | 5.00             | 3.15               |       |
| 89 Anthracene                  | 178 | 9.022        | 9.045            | -0.023           | 99  | 24977    | 5.00             | 2.82               |       |
| 90 Carbazole                   | 167 | 9.180        | 9.204            | -0.024           | 95  | 20696    | 5.00             | 3.01               |       |
| 91 Di-n-butyl phthalate        | 149 | 9.510        | 9.527            | -0.017           | 100 | 26596    | 5.00             | 3.13               |       |
| 92 Fluoranthene                | 202 | 10.139       | 10.163           | -0.024           | 98  | 29338    | 5.00             | 3.96               |       |
| 94 Pyrene                      | 202 | 10.369       | 10.392           | -0.023           | 98  | 46295    | 5.00             | 5.64               |       |
| 95 Bisphenol-A                 | 213 | 10.421       | 10.439           | -0.018           | 95  | 4583     | 2.50             | 3.24               |       |
| \$ 96 Terphenyl-d14            | 244 | 10.516       | 10.545           | -0.029           | 98  | 14916    | 5.00             | 2.57               |       |
| 97 Butyl benzyl phthalate      | 149 | 11.045       | 11.074           | -0.029           | 94  | 10046    | 5.00             | 3.41               |       |
| 99 Carbamazepine               | 193 | 11.186       | 11.216           | -0.030           | 91  | 6746     | 5.00             | 3.55               |       |
| 100 3,3'-Dichlorobenzidine     | 252 | 11.692       | 11.721           | -0.029           | 91  | 3264     | 5.00             | 1.90               |       |
| * 102 Chrysene-d12             | 240 | 11.733       | 11.751           | -0.018           | 99  | 182774   | 4.00             | 40.0               |       |
| 101 Benzo[a]anthracene         | 228 | 11.721       | 11.751           | -0.030           | 96  | 19214    | 5.00             | 3.52               |       |
| 104 Bis(2-ethylhexyl) phthalat | 149 | 11.739       | 11.763           | -0.024           | 48  | 11591    | 5.00             | 2.94               |       |
| 103 Chrysene                   | 228 | 11.763       | 11.798           | -0.035           | 99  | 21543    | 5.00             | 4.38               |       |
| 105 Di-n-octyl phthalate       | 149 | 12.604       | 12.627           | -0.023           | 96  | 20546    | 5.00             | 2.34               |       |
| 106 Benzo[b]fluoranthene       | 252 | 13.151       | 13.180           | -0.029           | 98  | 32306    | 5.00             | 4.84               |       |
| 107 Benzo[k]fluoranthene       | 252 | 13.186       | 13.221           | -0.035           | 98  | 21245    | 5.00             | 3.18               |       |
| 108 Benzo[a]pyrene             | 252 | 13.598       | 13.633           | -0.035           | 98  | 26850    | 5.00             | 4.57               |       |
| * 109 Perylene-d12             | 264 | 13.686       | 13.698           | -0.012           | 99  | 207547   | 4.00             | 40.0               |       |
| 110 Indeno[1,2,3-cd]pyrene     | 276 | 15.245       | 15.286           | -0.041           | 98  | 33317    | 5.00             | 6.92               |       |
| 111 Dibenz(a,h)anthracene      | 278 | 15.274       | 15.315           | -0.041           | 94  | 20712    | 5.00             | 4.41               |       |
| 112 Benzo[g,h,i]perylene       | 276 | 15.686       | 15.727           | -0.041           | 97  | 29244    | 5.00             | 5.67               |       |
| S 119 Total Cresols            | 1   |              |                  |                  | 0   |          |                  | 5.37               |       |

**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\\CBNAMS11\\20160311-38326.b\\z41591.D

Injection Date: 11-Mar-2016 15:09:30

Instrument ID: CBNAMS11

Operator ID:

Lims ID: 460-109462-E-1-C MS

Worklist Smp#: 19

Client ID:

Injection Vol: 1.0 ul

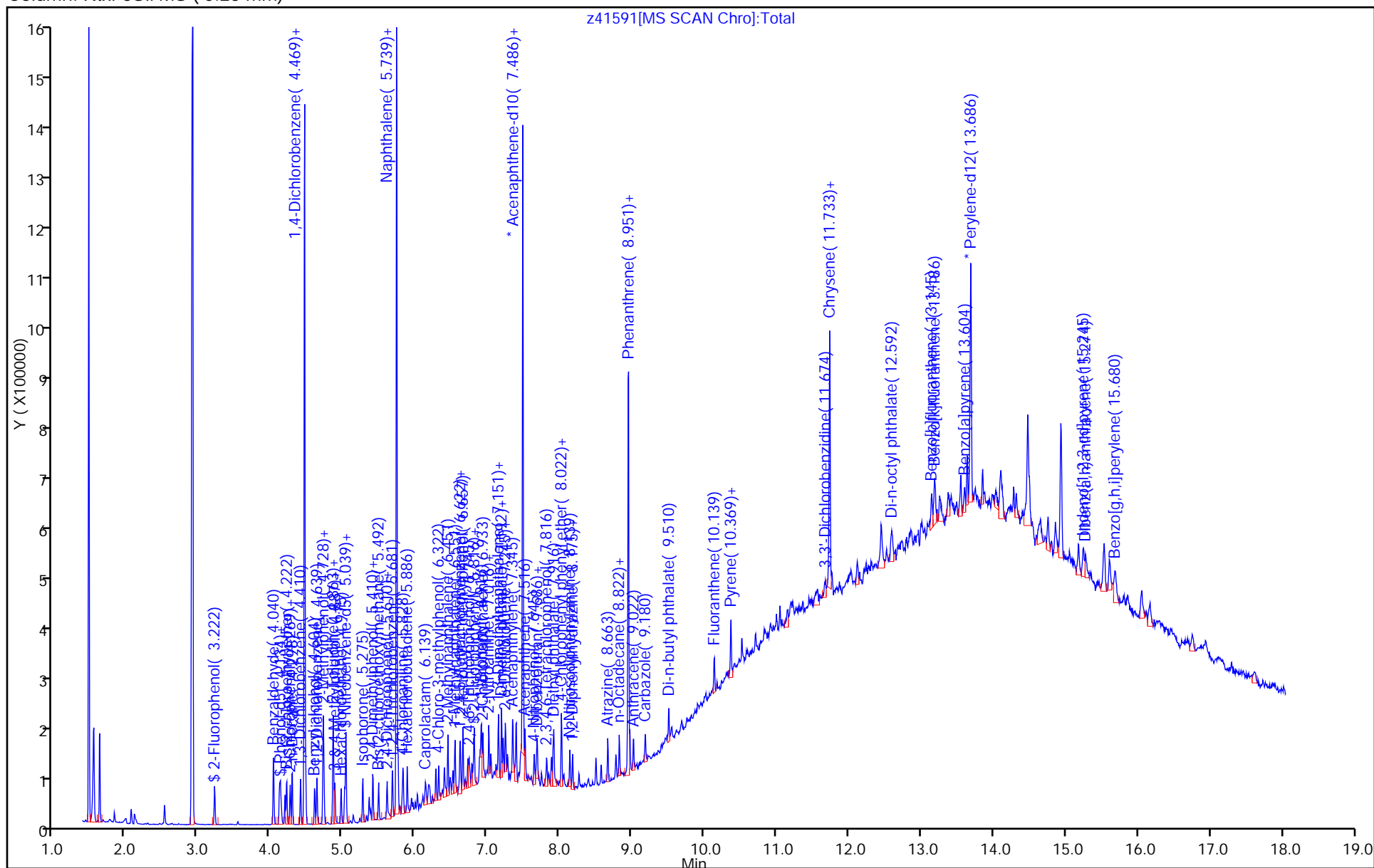
Dil. Factor: 10.0000

ALS Bottle#: 19

Method: 8270\_11R\_9

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>460-109716-1</u>                  |
| SDG No.: _____                      |   |
| Client Sample ID: _____             | Lab Sample ID: <u>460-109462-E-1-D MSD DL</u> |
| Matrix: <u>Solid</u>                | Lab File ID: <u>z41592.D</u>                  |
| Analysis Method: <u>8270D</u>       | Date Collected: <u>02/25/2016 11:55</u>       |
| Extract. Method: <u>3546</u>        | Date Extracted: <u>03/09/2016 13:54</u>       |
| Sample wt/vol: <u>15.0314(g)</u>    | Date Analyzed: <u>03/11/2016 15:33</u>        |
| Con. Extract Vol.: <u>1(mL)</u>     | Dilution Factor: <u>10</u>                    |
| Injection Volume: <u>1(uL)</u>      | Level: (low/med) <u>Low</u>                   |
| % Moisture: <u>6.4</u>              | GPC Cleanup: (Y/N) <u>N</u>                   |
| Analysis Batch No.: <u>355488</u>   | Units: <u>ug/Kg</u>                           |

| CAS NO.   | COMPOUND NAME                | RESULT | Q | RL   | MDL  |
|-----------|------------------------------|--------|---|------|------|
| 92-52-4   | 1,1'-Biphenyl                | 2370   | J | 3500 | 300  |
| 95-94-3   | 1,2,4,5-Tetrachlorobenzene   | 2250   | J | 3500 | 260  |
| 108-60-1  | 2,2'-oxybis[1-chloropropane] | 1920   | J | 3500 | 140  |
| 58-90-2   | 2,3,4,6-Tetrachlorophenol    | 1770   | J | 3500 | 330  |
| 95-95-4   | 2,4,5-Trichlorophenol        | 2020   | J | 3500 | 350  |
| 88-06-2   | 2,4,6-Trichlorophenol        | 2240   |   | 1400 | 100  |
| 120-83-2  | 2,4-Dichlorophenol           | 2050   |   | 1400 | 83   |
| 105-67-9  | 2,4-Dimethylphenol           | 2330   | J | 3500 | 770  |
| 51-28-5   | 2,4-Dinitrophenol            | 2800   | U | 2800 | 2700 |
| 121-14-2  | 2,4-Dinitrotoluene           | 2440   |   | 710  | 140  |
| 606-20-2  | 2,6-Dinitrotoluene           | 2520   |   | 710  | 190  |
| 91-58-7   | 2-Chloronaphthalene          | 2260   | J | 3500 | 80   |
| 95-57-8   | 2-Chlorophenol               | 2080   | J | 3500 | 90   |
| 91-57-6   | 2-Methylnaphthalene          | 1970   | J | 3500 | 78   |
| 95-48-7   | 2-Methylphenol               | 2190   | J | 3500 | 150  |
| 88-74-4   | 2-Nitroaniline               | 2640   | J | 3500 | 120  |
| 88-75-5   | 2-Nitrophenol                | 1700   | J | 3500 | 120  |
| 91-94-1   | 3,3'-Dichlorobenzidine       | 1480   |   | 1400 | 390  |
| 99-09-2   | 3-Nitroaniline               | 2640   | J | 3500 | 100  |
| 534-52-1  | 4,6-Dinitro-2-methylphenol   | 1890   | J | 2800 | 940  |
| 101-55-3  | 4-Bromophenyl phenyl ether   | 2480   | J | 3500 | 110  |
| 59-50-7   | 4-Chloro-3-methylphenol      | 2080   | J | 3500 | 150  |
| 106-47-8  | 4-Chloroaniline              | 1030   | J | 3500 | 91   |
| 7005-72-3 | 4-Chlorophenyl phenyl ether  | 2110   | J | 3500 | 110  |
| 106-44-5  | 4-Methylphenol               | 2170   | J | 3500 | 96   |
| 100-01-6  | 4-Nitroaniline               | 1970   | J | 3500 | 130  |
| 100-02-7  | 4-Nitrophenol                | 4110   | J | 7100 | 1700 |
| 83-32-9   | Acenaphthene                 | 2270   | J | 3500 | 85   |
| 208-96-8  | Acenaphthylene               | 2320   | J | 3500 | 91   |
| 98-86-2   | Acetophenone                 | 2040   | J | 3500 | 77   |
| 120-12-7  | Anthracene                   | 2580   | J | 3500 | 330  |
| 1912-24-9 | Atrazine                     | 4960   |   | 1400 | 160  |
| 100-52-7  | Benzaldehyde                 | 3380   | J | 3500 | 270  |
| 56-55-3   | Benzo[a]anthracene           | 3810   |   | 350  | 290  |

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

|                                     |   |
|-------------------------------------|---|
| Lab Name: <u>TestAmerica Edison</u> | Job No.: <u>460-109716-1</u>                  |
| SDG No.: _____                      |   |
| Client Sample ID: _____             | Lab Sample ID: <u>460-109462-E-1-D MSD DL</u> |
| Matrix: <u>Solid</u>                | Lab File ID: <u>z41592.D</u>                  |
| Analysis Method: <u>8270D</u>       | Date Collected: <u>02/25/2016 11:55</u>       |
| Extract. Method: <u>3546</u>        | Date Extracted: <u>03/09/2016 13:54</u>       |
| Sample wt/vol: <u>15.0314(g)</u>    | Date Analyzed: <u>03/11/2016 15:33</u>        |
| Con. Extract Vol.: <u>1(mL)</u>     | Dilution Factor: <u>10</u>                    |
| Injection Volume: <u>1(uL)</u>      | Level: (low/med) <u>Low</u>                   |
| % Moisture: <u>6.4</u>              | GPC Cleanup: (Y/N) <u>N</u>                   |
| Analysis Batch No.: <u>355488</u>   | Units: <u>ug/Kg</u>                           |

| CAS NO.  | COMPOUND NAME               | RESULT | Q | RL   | MDL |
|----------|-----------------------------|--------|---|------|-----|
| 50-32-8  | Benzo[a]pyrene              | 4890   |   | 350  | 110 |
| 205-99-2 | Benzo[b]fluoranthene        | 5230   |   | 350  | 140 |
| 191-24-2 | Benzo[g,h,i]perylene        | 5580   |   | 3500 | 200 |
| 207-08-9 | Benzo[k]fluoranthene        | 3030   |   | 350  | 150 |
| 111-91-1 | Bis(2-chloroethoxy)methane  | 2300   | J | 3500 | 110 |
| 111-44-4 | Bis(2-chloroethyl)ether     | 2100   |   | 350  | 83  |
| 117-81-7 | Bis(2-ethylhexyl) phthalate | 2540   | J | 3500 | 140 |
| 85-68-7  | Butyl benzyl phthalate      | 2280   | J | 3500 | 110 |
| 105-60-2 | Caprolactam                 | 2800   | J | 3500 | 250 |
| 86-74-8  | Carbazole                   | 2740   | J | 3500 | 87  |
| 218-01-9 | Chrysene                    | 4830   |   | 3500 | 96  |
| 53-70-3  | Dibenz(a,h)anthracene       | 4010   |   | 350  | 180 |
| 132-64-9 | Dibenzofuran                | 2200   | J | 3500 | 110 |
| 84-66-2  | Diethyl phthalate           | 2600   | J | 3500 | 100 |
| 131-11-3 | Dimethyl phthalate          | 2810   | J | 3500 | 100 |
| 84-74-2  | Di-n-butyl phthalate        | 2510   | J | 3500 | 110 |
| 117-84-0 | Di-n-octyl phthalate        | 1780   | J | 3500 | 180 |
| 206-44-0 | Fluoranthene                | 5550   |   | 3500 | 100 |
| 86-73-7  | Fluorene                    | 2170   | J | 3500 | 77  |
| 118-74-1 | Hexachlorobenzene           | 2150   |   | 350  | 140 |
| 87-68-3  | Hexachlorobutadiene         | 2240   |   | 710  | 99  |
| 77-47-4  | Hexachlorocyclopentadiene   | 1720   | J | 3500 | 220 |
| 67-72-1  | Hexachloroethane            | 1850   |   | 350  | 130 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene      | 6650   |   | 350  | 230 |
| 78-59-1  | Isophorone                  | 2390   |   | 1400 | 76  |
| 91-20-3  | Naphthalene                 | 2170   | J | 3500 | 90  |
| 98-95-3  | Nitrobenzene                | 2200   |   | 350  | 110 |
| 621-64-7 | N-Nitrosodi-n-propylamine   | 2170   |   | 350  | 120 |
| 86-30-6  | N-Nitrosodiphenylamine      | 2730   | J | 3500 | 320 |
| 87-86-5  | Pentachlorophenol           | 4420   |   | 2800 | 430 |
| 85-01-8  | Phenanthrene                | 3800   |   | 3500 | 94  |
| 108-95-2 | Phenol                      | 2040   | J | 3500 | 120 |
| 129-00-0 | Pyrene                      | 6070   |   | 3500 | 160 |

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

|                                     |   |
|-------------------------------------|---|
| Lab Name: <u>TestAmerica Edison</u> | Job No.: <u>460-109716-1</u>                  |
| SDG No.: _____                      |   |
| Client Sample ID: _____             | Lab Sample ID: <u>460-109462-E-1-D MSD DL</u> |
| Matrix: <u>Solid</u>                | Lab File ID: <u>z41592.D</u>                  |
| Analysis Method: <u>8270D</u>       | Date Collected: <u>02/25/2016 11:55</u>       |
| Extract. Method: <u>3546</u>        | Date Extracted: <u>03/09/2016 13:54</u>       |
| Sample wt/vol: <u>15.0314(g)</u>    | Date Analyzed: <u>03/11/2016 15:33</u>        |
| Con. Extract Vol.: <u>1(mL)</u>     | Dilution Factor: <u>10</u>                    |
| Injection Volume: <u>1(uL)</u>      | Level: (low/med) <u>Low</u>                   |
| % Moisture: <u>6.4</u>              | GPC Cleanup: (Y/N) <u>N</u>                   |
| Analysis Batch No.: <u>355488</u>   | Units: <u>ug/Kg</u>                           |

| CAS NO.   | SURROGATE                   | %REC | Q | LIMITS |
|-----------|-----------------------------|------|---|--------|
| 118-79-6  | 2,4,6-Tribromophenol (Surr) | 56   |   | 10-95  |
| 321-60-8  | 2-Fluorobiphenyl            | 68   |   | 27-84  |
| 367-12-4  | 2-Fluorophenol (Surr)       | 56   |   | 21-84  |
| 4165-60-0 | Nitrobenzene-d5 (Surr)      | 63   |   | 28-92  |
| 4165-62-2 | Phenol-d5 (Surr)            | 57   |   | 22-88  |
| 1718-51-0 | Terphenyl-d14 (Surr)        | 51   |   | 16-114 |

TestAmerica Edison  
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS11\20160311-38326.b\z41592.D  
 Lims ID: 460-109462-E-1-D MSD  
 Client ID:  
 Sample Type: MSD  
 Inject. Date: 11-Mar-2016 15:33:30 ALS Bottle#: 20 Worklist Smp#: 20  
 Injection Vol: 1.0 ul Dil. Factor: 10.0000  
 Sample Info: 460-0038326-020  
 Misc. Info.: CCVIS  
 Operator ID: Instrument ID: CBNAMS11  
 Method: \\ChromNA\Edison\ChromData\CBNAMS11\20160311-38326.b\8270\_11R\_9.m  
 Limit Group: SV 8270D ICAL  
 Last Update: 14-Mar-2016 12:11:36 Calib Date: 09-Mar-2016 14:41:30  
 Integrator: RTE ID Type: Deconvolution ID  
 Quant Method: Internal Standard Quant By: Initial Calibration  
 Last Ical File: \\ChromNA\Edison\ChromData\CBNAMS11\20160309-38213.b\z41475.D  
 Column 1 : Rtxi-5Sil MS ( 0.25 mm) Det: MS SCAN  
 Process Host: XAWRK051

First Level Reviewer: bayoumiw

Date: 14-Mar-2016 12:09:01

| 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  | 1.834     | 1.816         | 0.018         | 97 | 5310     | 5.00          | 1.69            |       |
| 2 N-Nitrosodimethylamine      | 74  | 2.063     | 2.057         | 0.006         | 85 | 11639    | 5.00          | 2.69            |       |
| 3 Pyridine                    | 79  | 2.110     | 2.081         | 0.029         | 85 | 7760     | 5.00          | 1.03            |       |
| \$ 4 2-Fluorophenol           | 112 | 3.222     | 3.228         | -0.006        | 93 | 19810    | 5.00          | 2.79            |       |
| 5 Benzaldehyde                | 77  | 4.034     | 4.045         | -0.011        | 95 | 28158    | 10.0          | 4.75            |       |
| \$ 6 Phenol-d5                | 99  | 4.122     | 4.157         | -0.035        | 93 | 24276    | 5.00          | 2.86            |       |
| 7 Phenol                      | 94  | 4.134     | 4.169         | -0.035        | 97 | 26030    | 5.00          | 2.87            |       |
| 8 Aniline                     | 93  | 4.145     | 4.169         | -0.024        | 94 | 10661    | 5.00          | 1.07            |       |
| 9 Bis(2-chloroethyl)ether     | 93  | 4.198     | 4.222         | -0.024        | 95 | 20504    | 5.00          | 2.96            |       |
| 10 Benzonitrile               | 103 | 4.222     | 4.257         | -0.035        | 0  | 38454    | NC            | NC              |       |
| 11 2-Chlorophenol             | 128 | 4.269     | 4.292         | -0.023        | 91 | 19821    | 5.00          | 2.93            |       |
| 12 n-Decane                   | 43  | 4.292     | 4.310         | -0.018        | 90 | 19623    | 5.00          | 2.28            |       |
| 13 1,3-Dichlorobenzene        | 146 | 4.410     | 4.428         | -0.018        | 92 | 20787    | 5.00          | 2.67            |       |
| * 14 1,4-Dichlorobenzene-d4   | 152 | 4.469     | 4.469         | 0.000         | 98 | 199648   | 4.00          | 40.0            |       |
| 15 1,4-Dichlorobenzene        | 146 | 4.481     | 4.498         | -0.017        | 94 | 22144    | 5.00          | 2.80            |       |
| 16 Benzyl alcohol             | 108 | 4.604     | 4.634         | -0.030        | 91 | 12780    | 5.00          | 6.12            |       |
| 17 1,2-Dichlorobenzene        | 146 | 4.639     | 4.651         | -0.012        | 94 | 20171    | 5.00          | 2.77            |       |
| 19 2,2'-oxybis[1-chloropropan | 45  | 4.734     | 4.751         | -0.017        | 94 | 25727    | 5.00          | 2.70            |       |
| 18 2-Methylphenol             | 108 | 4.728     | 4.757         | -0.029        | 88 | 18459    | 5.00          | 3.08            |       |
| 20 N-Methylaniline            | 106 | 4.881     | 4.881         | 0.000         | 0  | 603      | NC            | NC              |       |
| 21 N-Nitrosodi-n-propylamine  | 70  | 4.863     | 4.898         | -0.035        | 82 | 13613    | 5.00          | 3.05            |       |
| 22 Acetophenone               | 105 | 4.863     | 4.898         | -0.035        | 91 | 24423    | 5.00          | 2.87            |       |
| 23 3 & 4 Methylphenol         | 108 | 4.887     | 4.922         | -0.036        | 97 | 18536    | 5.00          | 3.06            |       |
| 24 4-Methylphenol             | 108 | 4.887     | 4.922         | -0.036        | 95 | 18536    | 5.00          | 3.06            |       |
| 29 2-Toluidine                | 107 | 4.887     | 4.947         | -0.061        | 58 | 22298    |               | NC              |       |
| 25 Hexachloroethane           | 117 | 4.975     | 4.987         | -0.012        | 93 | 7687     | 5.00          | 2.60            |       |
| \$ 26 Nitrobenzene-d5         | 82  | 5.022     | 5.051         | -0.029        | 91 | 21199    | 5.00          | 3.13            |       |
| 28 n,n'-Dimethylaniline       | 120 | 5.039     | 5.063         | -0.024        | 94 | 29194    | 5.00          | 3.35            |       |
| 27 Nitrobenzene               | 77  | 5.039     | 5.069         | -0.030        | 92 | 27560    | 5.00          | 3.10            |       |
| 31 Isophorone                 | 82  | 5.275     | 5.310         | -0.035        | 99 | 35113    | 5.00          | 3.37            |       |
| 32 2-Nitrophenol              | 139 | 5.363     | 5.381         | -0.018        | 88 | 7512     | 5.00          | 2.39            |       |

| Compound                      | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q   | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|-------------------------------|-----|-----------|---------------|---------------|-----|----------|---------------|-----------------|-------|
| 33 2,4-Dimethylphenol         | 122 | 5.410     | 5.439         | -0.029        | 88  | 16148    | 5.00          | 3.28            |       |
| 34 Bis(2-chloroethoxy)methane | 93  | 5.492     | 5.516         | -0.024        | 99  | 21092    | 5.00          | 3.24            |       |
| 35 Benzoic acid               | 122 | 5.610     | 5.598         | 0.012         | 29  | 69       | 5.00          | 5.18            |       |
| 36 2,4-Dichlorophenol         | 162 | 5.610     | 5.634         | -0.024        | 94  | 13282    | 5.00          | 2.89            |       |
| 37 1,2,4-Trichlorobenzene     | 180 | 5.686     | 5.704         | -0.018        | 93  | 15720    | 5.00          | 2.86            |       |
| * 38 Naphthalene-d8           | 136 | 5.739     | 5.751         | -0.012        | 100 | 637598   | 4.00          | 40.0            |       |
| 39 Naphthalene                | 128 | 5.763     | 5.781         | -0.018        | 99  | 51321    | 5.00          | 3.06            |       |
| 40 4-Chloroaniline            | 127 | 5.822     | 5.851         | -0.029        | 92  | 9089     | 5.00          | 1.45            |       |
| 41 Hexachlorobutadiene        | 225 | 5.886     | 5.904         | -0.018        | 94  | 10267    | 5.00          | 3.15            |       |
| 42 Caprolactam                | 113 | 6.139     | 6.175         | -0.036        | 89  | 5299     | 10.0          | 3.94            |       |
| 43 4-Chloro-3-methylphenol    | 107 | 6.322     | 6.345         | -0.023        | 95  | 13175    | 5.00          | 2.93            |       |
| 44 2-Methylnaphthalene        | 142 | 6.451     | 6.469         | -0.018        | 85  | 30141    | 5.00          | 2.78            |       |
| 45 1-Methylnaphthalene        | 142 | 6.551     | 6.569         | -0.018        | 92  | 27949    | 5.00          | 3.00            |       |
| 46 Hexachlorocyclopentadiene  | 237 | 6.616     | 6.633         | -0.017        | 93  | 3716     | 5.00          | 2.42            |       |
| 47 1,2,4,5-Tetrachlorobenzene | 216 | 6.622     | 6.639         | -0.017        | 95  | 12802    | 5.00          | 3.16            |       |
| 48 2-tertbutyl-4-methylphenol | 149 | 6.657     | 6.681         | -0.024        | 93  | 24584    | 5.00          | 3.62            |       |
| 49 2,4,6-Trichlorophenol      | 196 | 6.745     | 6.763         | -0.018        | 88  | 7601     | 5.00          | 3.15            |       |
| 50 2,4,5-Trichlorophenol      | 196 | 6.786     | 6.804         | -0.018        | 95  | 7138     | 5.00          | 2.85            |       |
| \$ 51 2-Fluorobiphenyl        | 172 | 6.816     | 6.839         | -0.023        | 98  | 31888    | 5.00          | 3.41            |       |
| 52 1,1'-Biphenyl              | 154 | 6.916     | 6.939         | -0.023        | 95  | 33713    | 5.00          | 3.34            |       |
| 53 2-Chloronaphthalene        | 162 | 6.933     | 6.957         | -0.024        | 95  | 24080    | 5.00          | 3.19            |       |
| 54 Phenyl ether               | 170 | 7.016     | 7.033         | -0.017        | 85  | 18142    | 5.00          | 3.44            |       |
| 55 2-Nitroaniline             | 65  | 7.045     | 7.069         | -0.024        | 94  | 8688     | 5.00          | 3.71            |       |
| 62 2-Naphthylamine            | 143 | 7.216     | 7.151         | 0.065         | 41  | 134      |               | NC              |       |
| 61 1-Naphthylamine            | 143 | 7.145     | 7.151         | -0.006        | 10  | 124      |               | NC              |       |
| 57 1,3-Dimethylnaphthalene    | 156 | 7.151     | 7.175         | -0.024        | 90  | 22797    | 5.00          | 3.66            |       |
| 58 Dimethyl phthalate         | 163 | 7.216     | 7.251         | -0.035        | 98  | 29770    | 5.00          | 3.96            |       |
| 59 Coumarin                   | 146 | 7.245     | 7.275         | -0.030        | 78  | 8920     | 5.00          | 3.19            |       |
| 60 2,6-Dinitrotoluene         | 165 | 7.275     | 7.310         | -0.035        | 92  | 6164     | 5.00          | 3.55            |       |
| 63 Acenaphthylene             | 152 | 7.345     | 7.369         | -0.024        | 98  | 35981    | 5.00          | 3.26            |       |
| 64 3-Nitroaniline             | 138 | 7.451     | 7.481         | -0.029        | 90  | 6603     | 5.00          | 3.72            |       |
| * 65 Acenaphthene-d10         | 164 | 7.486     | 7.498         | -0.012        | 92  | 248751   | 4.00          | 40.0            |       |
| 66 3,5-di-tert-butyl-4-hydrox | 205 | 7.498     | 7.522         | -0.024        | 97  | 24604    | 5.00          | 3.55            |       |
| 67 Acenaphthene               | 154 | 7.516     | 7.539         | -0.023        | 94  | 22455    | 5.00          | 3.19            |       |
| 69 4-Nitrophenol              | 65  | 7.645     | 7.680         | -0.035        | 93  | 7022     | 10.0          | 5.79            |       |
| 70 2,4-Dinitrotoluene         | 165 | 7.675     | 7.704         | -0.029        | 94  | 7445     | 5.00          | 3.44            |       |
| 71 Dibenzofuran               | 168 | 7.686     | 7.710         | -0.024        | 94  | 30814    | 5.00          | 3.09            |       |
| 72 2,3,4,6-Tetrachlorophenol  | 232 | 7.822     | 7.839         | -0.017        | 91  | 4532     | 5.00          | 2.49            |       |
| 73 Diethyl phthalate          | 149 | 7.904     | 7.939         | -0.035        | 98  | 25602    | 5.00          | 3.66            |       |
| 75 4-Chlorophenyl phenyl ethe | 204 | 8.022     | 8.039         | -0.017        | 87  | 11323    | 5.00          | 2.96            |       |
| 74 Fluorene                   | 166 | 8.022     | 8.051         | -0.029        | 97  | 23920    | 5.00          | 3.05            |       |
| 76 4-Nitroaniline             | 138 | 8.057     | 8.098         | -0.041        | 92  | 4047     | 5.00          | 2.77            |       |
| 77 4,6-Dinitro-2-methylphenol | 198 | 8.080     | 8.116         | -0.036        | 51  | 661      | 10.0          | 2.66            |       |
| 78 N-Nitrosodiphenylamine     | 169 | 8.139     | 8.169         | -0.030        | 65  | 17311    | 5.00          | 3.85            |       |
| 79 1,2-Diphenylhydrazine      | 77  | 8.175     | 8.204         | -0.029        | 97  | 22874    | 5.00          | 3.42            |       |
| \$ 80 2,4,6-Tribromophenol    | 330 | 8.263     | 8.292         | -0.029        | 91  | 2890     | 5.00          | 2.81            |       |
| 81 4-Bromophenyl phenyl ether | 248 | 8.498     | 8.522         | -0.024        | 88  | 6396     | 5.00          | 3.49            |       |
| 82 Hexachlorobenzene          | 284 | 8.575     | 8.598         | -0.024        | 96  | 5585     | 5.00          | 3.03            |       |
| 83 Atrazine                   | 200 | 8.663     | 8.686         | -0.023        | 93  | 10789    | 10.0          | 6.98            |       |
| 84 Pentachlorophenol          | 266 | 8.774     | 8.798         | -0.024        | 85  | 2692     | 10.0          | 6.22            |       |
| 85 Pentachloronitrobenzene    | 237 | 8.780     | 8.804         | -0.024        | 87  | 2749     | 5.00          | 3.85            |       |
| 86 n-Octadecane               | 57  | 8.822     | 8.839         | -0.017        | 91  | 15180    | 5.00          | 2.81            |       |

| Compound                       | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q  | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|---------------|-----------------|-------|
| * 87 Phenanthrene-d10          | 188 | 8.945     | 8.963         | -0.018        | 99 | 294222   | 4.00          | 40.0            |       |
| 88 Phenanthrene                | 178 | 8.969     | 8.992         | -0.023        | 97 | 45668    | 5.00          | 5.35            |       |
| 89 Anthracene                  | 178 | 9.022     | 9.045         | -0.023        | 99 | 30524    | 5.00          | 3.63            |       |
| 90 Carbazole                   | 167 | 9.180     | 9.204         | -0.024        | 96 | 25155    | 5.00          | 3.85            |       |
| 91 Di-n-butyl phthalate        | 149 | 9.510     | 9.527         | -0.017        | 99 | 28484    | 5.00          | 3.53            |       |
| 92 Fluoranthene                | 202 | 10.139    | 10.163        | -0.024        | 98 | 54992    | 5.00          | 7.81            |       |
| 94 Pyrene                      | 202 | 10.369    | 10.392        | -0.024        | 97 | 72027    | 5.00          | 8.54            |       |
| 95 Bisphenol-A                 | 213 | 10.421    | 10.439        | -0.018        | 95 | 4431     | 2.50          | 3.04            |       |
| \$ 96 Terphenyl-d14            | 244 | 10.521    | 10.545        | -0.024        | 98 | 15123    | 5.00          | 2.53            |       |
| 97 Butyl benzyl phthalate      | 149 | 11.045    | 11.074        | -0.029        | 96 | 9691     | 5.00          | 3.20            |       |
| 99 Carbamazepine               | 193 | 11.192    | 11.216        | -0.024        | 91 | 6852     | 5.00          | 3.51            |       |
| 100 3,3'-Dichlorobenzidine     | 252 | 11.692    | 11.721        | -0.029        | 60 | 3671     | 5.00          | 2.08            |       |
| * 102 Chrysene-d12             | 240 | 11.739    | 11.751        | -0.012        | 99 | 187811   | 4.00          | 40.0            |       |
| 101 Benzo[a]anthracene         | 228 | 11.721    | 11.751        | -0.030        | 97 | 30083    | 5.00          | 5.37            |       |
| 104 Bis(2-ethylhexyl) phthalat | 149 | 11.739    | 11.763        | -0.024        | 49 | 14488    | 5.00          | 3.57            |       |
| 103 Chrysene                   | 228 | 11.768    | 11.798        | -0.030        | 98 | 34353    | 5.00          | 6.80            |       |
| 105 Di-n-octyl phthalate       | 149 | 12.604    | 12.627        | -0.023        | 93 | 23123    | 5.00          | 2.50            |       |
| 106 Benzo[b]fluoranthene       | 252 | 13.151    | 13.180        | -0.029        | 98 | 51649    | 5.00          | 7.35            |       |
| 107 Benzo[k]fluoranthene       | 252 | 13.186    | 13.221        | -0.035        | 98 | 29929    | 5.00          | 4.26            |       |
| 108 Benzo[a]pyrene             | 252 | 13.604    | 13.633        | -0.029        | 97 | 42467    | 5.00          | 6.88            |       |
| * 109 Perylene-d12             | 264 | 13.692    | 13.698        | -0.006        | 99 | 218392   | 4.00          | 40.0            |       |
| 110 Indeno[1,2,3-cd]pyrene     | 276 | 15.251    | 15.286        | -0.035        | 99 | 47421    | 5.00          | 9.36            |       |
| 111 Dibenz(a,h)anthracene      | 278 | 15.286    | 15.315        | -0.029        | 93 | 27921    | 5.00          | 5.65            |       |
| 112 Benzo[g,h,i]perylene       | 276 | 15.698    | 15.727        | -0.029        | 98 | 42687    | 5.00          | 7.86            |       |
| S 119 Total Cresols            | 1   |           |               |               | 0  |          |               | 6.14            |       |
| 126 4,4'-DDD                   | 235 | 7.757     | 7.716         | 0.041         | 1  | 68       |               | NR              | 7     |
| 127 4,4'-DDT                   | 235 | 8.127     | 8.069         | 0.058         | 1  | 159      |               | NR              | 7     |

**QC Flag Legend**

## Processing Flags

NR - Missing Quant Standard

NC - Not Calibrated

7 - Failed Limit of Detection

**Reagents:**

SM\_ISTD\_00105

Amount Added: 20.00

Units: uL

Run Reagent

## TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CBNAMS11\\20160311-38326.b\\z41592.D

Injection Date: 11-Mar-2016 15:33:30

Instrument ID: CBNAMS11

Operator ID:

Lims ID: 460-109462-E-1-D MSD

Worklist Smp#: 20

Client ID:

Injection Vol: 1.0 ul

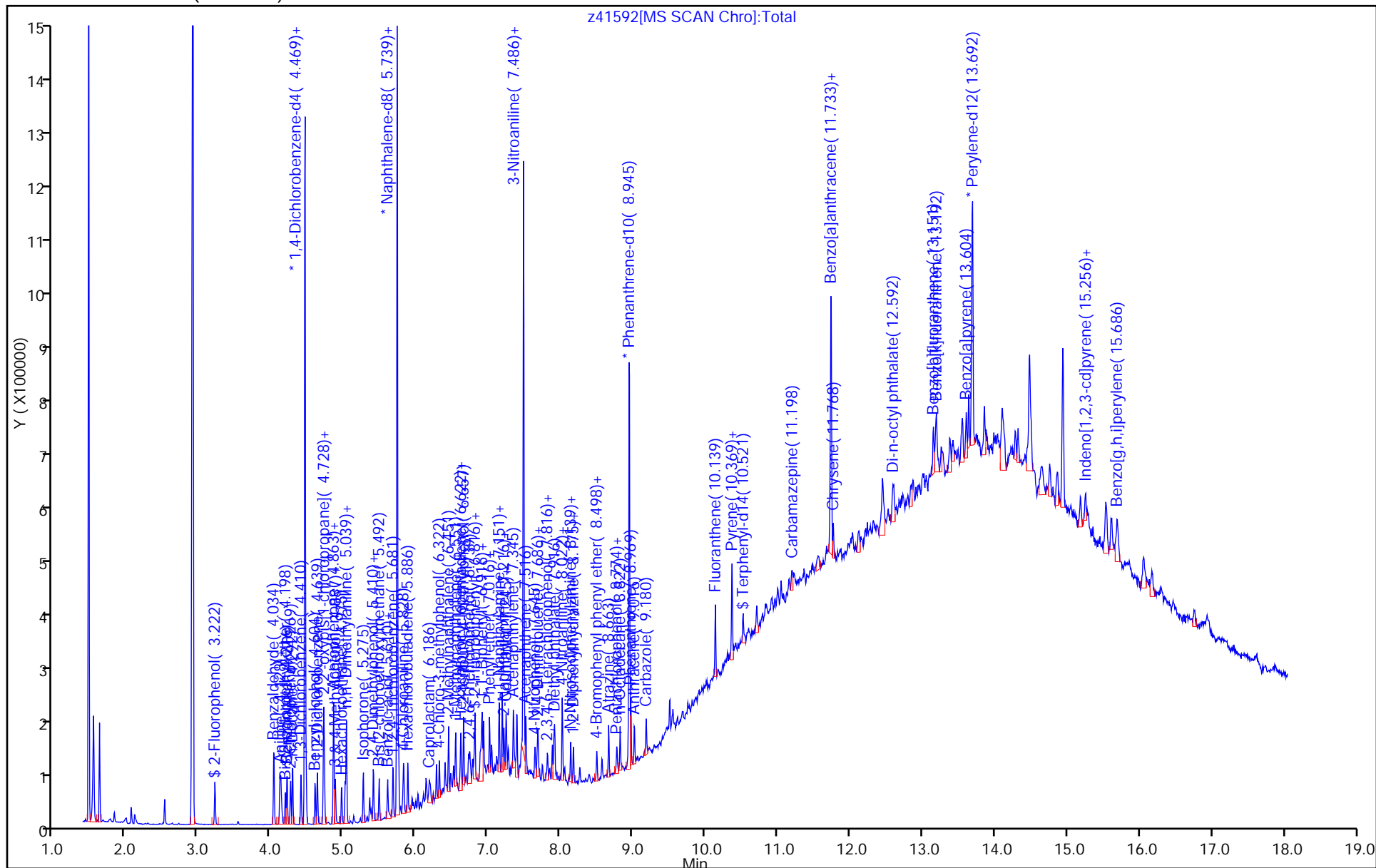
Dil. Factor: 10.0000

ALS Bottle#: 20

Method: 8270\_11R\_9

Limit Group: SV 8270D ICAL

Column: Rtxi-5Sil MS (0.25 mm)





## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica EdisonJob No.: 460-109716-1

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS11Start Date: 03/09/2016 08:12Analysis Batch Number: 354905End Date: 03/09/2016 15:30

| LAB SAMPLE ID              | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID              |
|----------------------------|------------------|------------------|--------------------|-------------|------------------------|
| DFTPP 460-354905/1         |                  | 03/09/2016 08:12 | 1                  | z41459.D    | Rtxi-5Sil MS 0.25 (mm) |
| ICIS 460-354905/2          |                  | 03/09/2016 08:34 | 1                  | z41460.D    | Rtxi-5Sil MS 0.25 (mm) |
| STD120 460-354905/3<br>IC  |                  | 03/09/2016 09:04 | 1                  | z41461.D    | Rtxi-5Sil MS 0.25 (mm) |
| STD80 460-354905/4<br>IC   |                  | 03/09/2016 09:28 | 1                  | z41462.D    | Rtxi-5Sil MS 0.25 (mm) |
| STD20 460-354905/5<br>IC   |                  | 03/09/2016 09:52 | 1                  | z41463.D    | Rtxi-5Sil MS 0.25 (mm) |
| STD10 460-354905/6<br>IC   |                  | 03/09/2016 10:16 | 1                  | z41464.D    | Rtxi-5Sil MS 0.25 (mm) |
| STD5 460-354905/7 IC       |                  | 03/09/2016 10:40 | 1                  | z41465.D    | Rtxi-5Sil MS 0.25 (mm) |
| STD2 460-354905/8 IC       |                  | 03/09/2016 11:04 | 1                  | z41466.D    | Rtxi-5Sil MS 0.25 (mm) |
| STD1 460-354905/9 IC       |                  | 03/09/2016 11:28 | 1                  | z41467.D    | Rtxi-5Sil MS 0.25 (mm) |
| STD05 460-354905/10<br>IC  |                  | 03/09/2016 11:52 | 1                  | z41468.D    | Rtxi-5Sil MS 0.25 (mm) |
| STD50 460-354905/11<br>IC  |                  | 03/09/2016 12:16 | 1                  | z41469.D    | Rtxi-5Sil MS 0.25 (mm) |
| STD120 460-354905/12<br>IC |                  | 03/09/2016 12:41 | 1                  | z41470.D    | Rtxi-5Sil MS 0.25 (mm) |
| STD80 460-354905/13<br>IC  |                  | 03/09/2016 13:05 | 1                  | z41471.D    | Rtxi-5Sil MS 0.25 (mm) |
| STD20 460-354905/14<br>IC  |                  | 03/09/2016 13:29 | 1                  | z41472.D    | Rtxi-5Sil MS 0.25 (mm) |
| STD10 460-354905/15<br>IC  |                  | 03/09/2016 13:53 | 1                  | z41473.D    | Rtxi-5Sil MS 0.25 (mm) |
| STD5 460-354905/16<br>IC   |                  | 03/09/2016 14:17 | 1                  | z41474.D    | Rtxi-5Sil MS 0.25 (mm) |
| STD2 460-354905/17<br>IC   |                  | 03/09/2016 14:41 | 1                  | z41475.D    | Rtxi-5Sil MS 0.25 (mm) |
| ICV 460-354905/18          |                  | 03/09/2016 15:06 | 1                  | z41476.D    | Rtxi-5Sil MS 0.25 (mm) |
| ICV 460-354905/19          |                  | 03/09/2016 15:30 | 1                  | z41477.D    | Rtxi-5Sil MS 0.25 (mm) |

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica EdisonJob No.: 460-109716-1

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS11Start Date: 03/10/2016 19:18Analysis Batch Number: 355365End Date: 03/11/2016 07:12

| LAB SAMPLE ID      | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID              |
|--------------------|------------------|------------------|--------------------|-------------|------------------------|
| DFTPP 460-355365/1 |                  | 03/10/2016 19:18 | 1                  | z41542.D    | Rtxi-5Sil MS 0.25 (mm) |
| CCVIS 460-355365/2 |                  | 03/10/2016 19:34 | 1                  | z41543.D    | Rtxi-5Sil MS 0.25 (mm) |
| CCV 460-355365/3   |                  | 03/10/2016 19:58 | 1                  | z41544.D    | Rtxi-5Sil MS 0.25 (mm) |
| LCS 460-355001/2-A |                  | 03/10/2016 20:47 | 1                  | z41546.D    | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/10/2016 21:35 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/10/2016 21:59 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/10/2016 22:23 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/10/2016 22:47 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/10/2016 23:11 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/10/2016 23:35 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/10/2016 23:59 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 00:23 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 00:47 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 01:11 | 10                 |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 01:35 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 01:59 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 02:23 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 02:47 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 03:12 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 06:24 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 07:12 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica EdisonJob No.: 460-109716-1

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS11Start Date: 03/11/2016 07:54Analysis Batch Number: 355488End Date: 03/11/2016 19:33

| LAB SAMPLE ID              | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID              |
|----------------------------|------------------|------------------|--------------------|-------------|------------------------|
| DFTPP 460-355488/1         |                  | 03/11/2016 07:54 | 1                  | z41573.D    | Rtxi-5Sil MS 0.25 (mm) |
| CCVIS 460-355488/2         |                  | 03/11/2016 08:08 | 1                  | z41574.D    | Rtxi-5Sil MS 0.25 (mm) |
| CCV 460-355488/3           |                  | 03/11/2016 08:46 | 1                  | z41575.D    | Rtxi-5Sil MS 0.25 (mm) |
| MB 460-355001/1-A          |                  | 03/11/2016 09:33 | 1                  | z41577.D    | Rtxi-5Sil MS 0.25 (mm) |
| LCS 460-355001/3-A         |                  | 03/11/2016 09:57 | 1                  | z41578.D    | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                      |                  | 03/11/2016 10:21 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                      |                  | 03/11/2016 10:45 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                      |                  | 03/11/2016 11:09 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                      |                  | 03/11/2016 11:33 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                      |                  | 03/11/2016 11:57 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                      |                  | 03/11/2016 12:21 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                      |                  | 03/11/2016 12:45 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                      |                  | 03/11/2016 13:09 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                      |                  | 03/11/2016 13:57 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                      |                  | 03/11/2016 14:21 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                      |                  | 03/11/2016 14:45 | 10                 |             | Rtxi-5Sil MS 0.25 (mm) |
| 460-109462-E-1-C MS<br>DL  |                  | 03/11/2016 15:09 | 10                 | z41591.D    | Rtxi-5Sil MS 0.25 (mm) |
| 460-109462-E-1-D MSD<br>DL |                  | 03/11/2016 15:33 | 10                 | z41592.D    | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                      |                  | 03/11/2016 16:21 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                      |                  | 03/11/2016 16:45 | 5                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                      |                  | 03/11/2016 17:09 | 2                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                      |                  | 03/11/2016 17:33 | 2                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                      |                  | 03/11/2016 17:57 | 2                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                      |                  | 03/11/2016 18:45 | 5                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ                      |                  | 03/11/2016 19:33 | 2                  |             | Rtxi-5Sil MS 0.25 (mm) |

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica EdisonJob No.: 460-109716-1

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS12Start Date: 03/06/2016 09:26Analysis Batch Number: 354301End Date: 03/06/2016 17:31

| LAB SAMPLE ID              | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID              |
|----------------------------|------------------|------------------|--------------------|-------------|------------------------|
| DFTPP 460-354301/1         |                  | 03/06/2016 09:26 | 1                  | L131113a.D  | Rtxi-5Sil MS 0.25 (mm) |
| ICIS 460-354301/2          |                  | 03/06/2016 09:45 | 1                  | L131114.D   | Rtxi-5Sil MS 0.25 (mm) |
| STD120 460-354301/3<br>IC  |                  | 03/06/2016 11:01 | 1                  | L131115.D   | Rtxi-5Sil MS 0.25 (mm) |
| STD80 460-354301/4<br>IC   |                  | 03/06/2016 11:25 | 1                  | L131116.D   | Rtxi-5Sil MS 0.25 (mm) |
| STD20 460-354301/5<br>IC   |                  | 03/06/2016 11:50 | 1                  | L131117.D   | Rtxi-5Sil MS 0.25 (mm) |
| STD10 460-354301/6<br>IC   |                  | 03/06/2016 12:14 | 1                  | L131118.D   | Rtxi-5Sil MS 0.25 (mm) |
| STD5 460-354301/7 IC       |                  | 03/06/2016 12:39 | 1                  | L131119.D   | Rtxi-5Sil MS 0.25 (mm) |
| STD2 460-354301/8 IC       |                  | 03/06/2016 13:03 | 1                  | L131120.D   | Rtxi-5Sil MS 0.25 (mm) |
| STD1 460-354301/9 IC       |                  | 03/06/2016 13:27 | 1                  | L131121.D   | Rtxi-5Sil MS 0.25 (mm) |
| STD05 460-354301/10<br>IC  |                  | 03/06/2016 13:52 | 1                  | L131122.D   | Rtxi-5Sil MS 0.25 (mm) |
| STD50 460-354301/11<br>IC  |                  | 03/06/2016 14:16 | 1                  | L131123.D   | Rtxi-5Sil MS 0.25 (mm) |
| STD120 460-354301/12<br>IC |                  | 03/06/2016 14:41 | 1                  | L131124.D   | Rtxi-5Sil MS 0.25 (mm) |
| STD080 460-354301/13<br>IC |                  | 03/06/2016 15:05 | 1                  | L131125.D   | Rtxi-5Sil MS 0.25 (mm) |
| STD020 460-354301/14<br>IC |                  | 03/06/2016 15:30 | 1                  | L131126.D   | Rtxi-5Sil MS 0.25 (mm) |
| STD010 460-354301/15<br>IC |                  | 03/06/2016 15:54 | 1                  | L131127.D   | Rtxi-5Sil MS 0.25 (mm) |
| STD5 460-354301/16<br>IC   |                  | 03/06/2016 16:18 | 1                  | L131128.D   | Rtxi-5Sil MS 0.25 (mm) |
| STD2 460-354301/17<br>IC   |                  | 03/06/2016 16:43 | 1                  | L131129.D   | Rtxi-5Sil MS 0.25 (mm) |
| ICV 460-354301/18          |                  | 03/06/2016 17:07 | 1                  | L131130.D   | Rtxi-5Sil MS 0.25 (mm) |
| ICV 460-354301/19          |                  | 03/06/2016 17:31 | 1                  | L131131.D   | Rtxi-5Sil MS 0.25 (mm) |

## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica EdisonJob No.: 460-109716-1

SDG No.: \_\_\_\_\_

Instrument ID: CBNAMS12Start Date: 03/11/2016 01:45Analysis Batch Number: 355423End Date: 03/11/2016 13:24

| LAB SAMPLE ID      | CLIENT SAMPLE ID | DATE ANALYZED    | DILUTION<br>FACTOR | LAB FILE ID | COLUMN ID              |
|--------------------|------------------|------------------|--------------------|-------------|------------------------|
| DFTPP 460-355423/1 |                  | 03/11/2016 01:45 | 1                  | L131349.D   | Rtxi-5Sil MS 0.25 (mm) |
| CCVIS 460-355423/2 |                  | 03/11/2016 02:45 | 1                  | L131350a.D  | Rtxi-5Sil MS 0.25 (mm) |
| CCV 460-355423/3   |                  | 03/11/2016 03:37 | 1                  | L131351.D   | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 04:02 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 04:26 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 04:50 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 05:15 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 05:40 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 06:04 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 06:29 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 06:53 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 07:42 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 08:06 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 08:31 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 08:56 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 09:20 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 09:44 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 10:09 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 10:33 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 10:57 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 11:22 | 2                  |             | Rtxi-5Sil MS 0.25 (mm) |
| 460-109716-1       |                  | 03/11/2016 11:47 | 1                  | L131371.D   | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 12:11 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 12:35 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 13:00 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |
| ZZZZZ              |                  | 03/11/2016 13:24 | 1                  |             | Rtxi-5Sil MS 0.25 (mm) |

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-109716-1

SDG No.: \_\_\_\_\_

Batch Number: 355001 Batch Start Date: 03/09/16 13:54 Batch Analyst: DeLeaon, Royce ABatch Method: 3546 Batch End Date: \_\_\_\_\_

| Lab Sample ID         | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | OP_Benzald_sp<br>00002 | OP_BNA SPIK<br>00020 | OP_BNASurroga<br>00009 |  |
|-----------------------|------------------|--------------|-------|---------------|-------------|------------------------|----------------------|------------------------|--|
| MB 460-355001/1       |                  | 3546, 8270D  |       | 15.0000 g     | 1 mL        |                        |                      | 500 uL                 |  |
| LCS<br>460-355001/2   |                  | 3546, 8270D  |       | 15.0000 g     | 1 mL        |                        | 500 uL               | 500 uL                 |  |
| LCS<br>460-355001/3   |                  | 3546, 8270D  |       | 15.0000 g     | 1 mL        | 50 uL                  |                      | 500 uL                 |  |
| 460-109462-E-1<br>MS  |                  | 3546, 8270D  | T     | 15.0214 g     | 1 mL        | 50 uL                  | 500 uL               | 500 uL                 |  |
| 460-109462-E-1<br>MSD |                  | 3546, 8270D  | T     | 15.0314 g     | 1 mL        | 50 uL                  | 500 uL               | 500 uL                 |  |
| 460-109716-A-1        | C1               | 3546, 8270D  | T     | 15.0268 g     | 1 mL        |                        |                      | 500 uL                 |  |

| Batch Notes                        |                                 |
|------------------------------------|---------------------------------|
| Balance ID                         | 28                              |
| Batch Comment                      | BNA SOIL 8270D                  |
| Final Concentrator Volume          | 1 mL                            |
| MeCL2 ID                           | 128101                          |
| MeCl2 / Acetone ID                 | 110970                          |
| Na2SO4 ID                          | 151191 (SILICA SAND LOT#132456) |
| Person's name who did the prep     | RD                              |
| Analyst ID - Spike Analyst         | RD                              |
| Analyst ID - Spike Witness Analyst | RD                              |
| Water Bath Temperature             | 38c (38c UNCORRECTED)           |

| 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: 460-109716-1

SDG No.: \_\_\_\_\_

Project: DEC-Elmont546; Site / E130150

Client Sample ID  
C1

Lab Sample ID  
460-109716-1

Comments:



1A-IN  
INORGANIC ANALYSIS DATA SHEET  
METALS

|                              |                                 |
|------------------------------|---------------------------------|
| Client Sample ID: C1         | Lab Sample ID: 460-109716-1     |
| Lab Name: TestAmerica Edison | Job No.: 460-109716-1           |
| SDG ID.:                     |                                 |
| Matrix: Solid                | Date Sampled: 02/29/2016 13:55  |
| Reporting Basis: DRY         | Date Received: 02/29/2016 18:50 |
| % Solids: 87.8               |                                 |

| CAS No.   | Analyte   | Result | RL   | MDL  | Units | C | Q | DIL | Method |
|-----------|-----------|--------|------|------|-------|---|---|-----|--------|
| 7429-90-5 | Aluminum  | 4130   | 44.2 | 22.8 | mg/Kg |   |   | 4   | 6010C  |
| 7440-36-0 | Antimony  | 4.4    | 4.4  | 1.7  | mg/Kg | U |   | 4   | 6010C  |
| 7440-38-2 | Arsenic   | 3.0    | 3.3  | 1.1  | mg/Kg | J |   | 4   | 6010C  |
| 7440-39-3 | Barium    | 93.7   | 44.2 | 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   | 17700  | 1110 | 65.5 | mg/Kg |   |   | 4   | 6010C  |
| 7440-47-3 | Chromium  | 9.6    | 2.2  | 1.1  | mg/Kg |   |   | 4   | 6010C  |
| 7440-48-4 | Cobalt    | 2.8    | 11.1 | 1.3  | mg/Kg | J |   | 4   | 6010C  |
| 7440-50-8 | Copper    | 17.2   | 5.5  | 1.4  | mg/Kg |   |   | 4   | 6010C  |
| 7439-89-6 | Iron      | 8460   | 33.2 | 25.0 | mg/Kg |   |   | 4   | 6010C  |
| 7439-92-1 | Lead      | 344    | 2.2  | 0.87 | mg/Kg |   |   | 4   | 6010C  |
| 7439-95-4 | Magnesium | 6520   | 1110 | 55.2 | mg/Kg |   |   | 4   | 6010C  |
| 7439-96-5 | Manganese | 157    | 3.3  | 1.2  | mg/Kg |   |   | 4   | 6010C  |
| 7440-02-0 | Nickel    | 7.2    | 8.8  | 1.6  | mg/Kg | J |   | 4   | 6010C  |
| 7440-09-7 | Potassium | 314    | 1110 | 33.5 | 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    | 1110   | 1110 | 74.9 | mg/Kg | U |   | 4   | 6010C  |
| 7440-28-0 | Thallium  | 4.4    | 4.4  | 2.0  | mg/Kg | U |   | 4   | 6010C  |
| 7440-62-2 | Vanadium  | 13.4   | 11.1 | 1.1  | mg/Kg |   |   | 4   | 6010C  |
| 7440-66-6 | Zinc      | 92.0   | 6.6  | 1.6  | mg/Kg |   |   | 4   | 6010C  |

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Edison Job No.: 460-109716-1

SDG No.: \_\_\_\_\_

ICV Source: ME\_CCV\_DUO\_00149 Concentration Units: ug/L

CCV Source: ME\_CCV\_DUO\_00149

| Analyte          | ICV 460-354083/7<br>03/04/2016 11:30 |   |        |     | CCV 460-354083/46<br>03/04/2016 14:22 |   |        |     | CCV 460-354083/59<br>03/04/2016 15:12 |   |        |     |
|------------------|--------------------------------------|---|--------|-----|---------------------------------------|---|--------|-----|---------------------------------------|---|--------|-----|
|                  | Found                                | C | True   | %R  | Found                                 | C | True   | %R  | Found                                 | C | True   | %R  |
| <b>Aluminum</b>  | 126500                               |   | 125000 | 101 | 131500                                |   | 125000 | 105 | 134200                                |   | 125000 | 107 |
| <b>Antimony</b>  | 1001                                 |   | 1000   | 100 | 1022                                  |   | 1000   | 102 | 1028                                  |   | 1000   | 103 |
| <b>Arsenic</b>   | 2463                                 |   | 2500   | 99  | 2394                                  |   | 2500   | 96  | 2355                                  |   | 2500   | 94  |
| <b>Barium</b>    | 10060                                |   | 10000  | 101 | 10380                                 |   | 10000  | 104 | 10600                                 |   | 10000  | 106 |
| <b>Beryllium</b> | 1021                                 |   | 1000   | 102 | 1023                                  |   | 1000   | 102 | 1056                                  |   | 1000   | 106 |
| <b>Cadmium</b>   | 1252                                 |   | 1250   | 100 | 1297                                  |   | 1250   | 104 | 1311                                  |   | 1250   | 105 |
| <b>Calcium</b>   | 124900                               |   | 125000 | 100 | 126700                                |   | 125000 | 101 | 128600                                |   | 125000 | 103 |
| <b>Chromium</b>  | 5014                                 |   | 5000   | 100 | 4826                                  |   | 5000   | 97  | 4809                                  |   | 5000   | 96  |
| <b>Cobalt</b>    | 2506                                 |   | 2500   | 100 | 2567                                  |   | 2500   | 103 | 2590                                  |   | 2500   | 104 |
| <b>Copper</b>    | 12580                                |   | 12500  | 101 | 12710                                 |   | 12500  | 102 | 12790                                 |   | 12500  | 102 |
| <b>Iron</b>      | 100400                               |   | 100000 | 100 | 98070                                 |   | 100000 | 98  | 98630                                 |   | 100000 | 99  |
| <b>Lead</b>      | 7484                                 |   | 7500   | 100 | 7362                                  |   | 7500   | 98  | 7321                                  |   | 7500   | 98  |
| <b>Magnesium</b> | 123100                               |   | 125000 | 98  | 117500                                |   | 125000 | 94  | 117200                                |   | 125000 | 94  |
| <b>Manganese</b> | 5105                                 |   | 5000   | 102 | 5229                                  |   | 5000   | 105 | 5296                                  |   | 5000   | 106 |
| <b>Nickel</b>    | 2519                                 |   | 2500   | 101 | 2646                                  |   | 2500   | 106 | 2693                                  |   | 2500   | 108 |
| <b>Potassium</b> | 50440                                |   | 50000  | 101 | 53710                                 |   | 50000  | 107 | 55220                                 |   | 50000  | 110 |
| <b>Selenium</b>  | 2481                                 |   | 2500   | 99  | 2457                                  |   | 2500   | 98  | 2413                                  |   | 2500   | 97  |
| <b>Silver</b>    | 1238                                 |   | 1250   | 99  | 1201                                  |   | 1250   | 96  | 1198                                  |   | 1250   | 96  |
| <b>Sodium</b>    | 126200                               |   | 125000 | 101 | 129200                                |   | 125000 | 103 | 131400                                |   | 125000 | 105 |
| <b>Thallium</b>  | 2513                                 |   | 2500   | 101 | 2518                                  |   | 2500   | 101 | 2524                                  |   | 2500   | 101 |
| <b>Vanadium</b>  | 2518                                 |   | 2500   | 101 | 2562                                  |   | 2500   | 102 | 2588                                  |   | 2500   | 104 |
| <b>Zinc</b>      | 2509                                 |   | 2500   | 100 | 2548                                  |   | 2500   | 102 | 2550                                  |   | 2500   | 102 |

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.: 460-109716-1

SDG No.: \_\_\_\_\_

ICV Source: ME\_CCV\_DUO\_00149 Concentration Units: ug/L

CCV Source: ME\_CCV\_DUO\_00149

| Analyte          | CCV 460-354083/72<br>03/04/2016 16:02 |   |        |     | CCV 460-354083/85<br>03/04/2016 17:12 |   |        |     |       |   |      |    |
|------------------|---------------------------------------|---|--------|-----|---------------------------------------|---|--------|-----|-------|---|------|----|
|                  | Found                                 | C | True   | %R  | Found                                 | C | True   | %R  | Found | C | True | %R |
| <b>Aluminum</b>  | 130200                                |   | 125000 | 104 | 129800                                |   | 125000 | 104 |       |   |      |    |
| <b>Antimony</b>  | 1025                                  |   | 1000   | 103 | 1012                                  |   | 1000   | 101 |       |   |      |    |
| <b>Arsenic</b>   | 2436                                  |   | 2500   | 97  | 2413                                  |   | 2500   | 97  |       |   |      |    |
| <b>Barium</b>    | 10530                                 |   | 10000  | 105 | 10230                                 |   | 10000  | 102 |       |   |      |    |
| <b>Beryllium</b> | 1016                                  |   | 1000   | 102 | 1071                                  |   | 1000   | 107 |       |   |      |    |
| <b>Cadmium</b>   | 1317                                  |   | 1250   | 105 | 1278                                  |   | 1250   | 102 |       |   |      |    |
| <b>Calcium</b>   | 131300                                |   | 125000 | 105 | 125100                                |   | 125000 | 100 |       |   |      |    |
| <b>Chromium</b>  | 4961                                  |   | 5000   | 99  | 4870                                  |   | 5000   | 97  |       |   |      |    |
| <b>Cobalt</b>    | 2587                                  |   | 2500   | 103 | 2544                                  |   | 2500   | 102 |       |   |      |    |
| <b>Copper</b>    | 12690                                 |   | 12500  | 102 | 12660                                 |   | 12500  | 101 |       |   |      |    |
| <b>Iron</b>      | 101500                                |   | 100000 | 102 | 98460                                 |   | 100000 | 98  |       |   |      |    |
| <b>Lead</b>      | 7481                                  |   | 7500   | 100 | 7366                                  |   | 7500   | 98  |       |   |      |    |
| <b>Magnesium</b> | 122400                                |   | 125000 | 98  | 118600                                |   | 125000 | 95  |       |   |      |    |
| <b>Manganese</b> | 5302                                  |   | 5000   | 106 | 5179                                  |   | 5000   | 104 |       |   |      |    |
| <b>Nickel</b>    | 2673                                  |   | 2500   | 107 | 2598                                  |   | 2500   | 104 |       |   |      |    |
| <b>Potassium</b> | 53590                                 |   | 50000  | 107 | 52330                                 |   | 50000  | 105 |       |   |      |    |
| <b>Selenium</b>  | 2481                                  |   | 2500   | 99  | 2467                                  |   | 2500   | 99  |       |   |      |    |
| <b>Silver</b>    | 1225                                  |   | 1250   | 98  | 1207                                  |   | 1250   | 97  |       |   |      |    |
| <b>Sodium</b>    | 128900                                |   | 125000 | 103 | 128000                                |   | 125000 | 102 |       |   |      |    |
| <b>Thallium</b>  | 2549                                  |   | 2500   | 102 | 2506                                  |   | 2500   | 100 |       |   |      |    |
| <b>Vanadium</b>  | 2593                                  |   | 2500   | 104 | 2543                                  |   | 2500   | 102 |       |   |      |    |
| <b>Zinc</b>      | 2616                                  |   | 2500   | 105 | 2527                                  |   | 2500   | 101 |       |   |      |    |

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

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Edison

Job No.: 460-109716-1

SDG No.: \_\_\_\_\_

ICV Source: ME\_Cal2\_BC\_00009

Concentration Units: ug/L

CCV Source: ME\_Cal2\_BC\_00009

| Analyte          | ICVL 460-354083/9<br>03/04/2016 11:37 |   |      |     | CCVL 460-354083/48<br>03/04/2016 14:30 |   |      |     | CCVL 460-354083/61<br>03/04/2016 15:20 |   |      |     |
|------------------|---------------------------------------|---|------|-----|--|---|------|-----|--|---|------|-----|
|                  | Found                                 | C | True | %R  | Found                                  | C | True | %R  | Found                                  | C | True | %R  |
| <b>Aluminum</b>  | 220.8                                 |   | 200  | 110 | 209.8                                  |   | 200  | 105 | 226.6                                  |   | 200  | 113 |
| <b>Antimony</b>  | 19.17                                 | J | 20.0 | 96  | 18.74                                  | J | 20.0 | 94  | 20.16                                  |   | 20.0 | 101 |
| <b>Arsenic</b>   | 16.07                                 |   | 15.0 | 107 | 18.04                                  |   | 15.0 | 120 | 15.16                                  |   | 15.0 | 101 |
| <b>Barium</b>    | 204.3                                 |   | 200  | 102 | 203.8                                  |   | 200  | 102 | 214.0                                  |   | 200  | 107 |
| <b>Beryllium</b> | 2.17                                  |   | 2.00 | 108 | 1.89                                   | J | 2.00 | 95  | 2.31                                   |   | 2.00 | 115 |
| <b>Cadmium</b>   | 4.39                                  |   | 4.00 | 110 | 4.18                                   |   | 4.00 | 104 | 4.48                                   |   | 4.00 | 112 |
| <b>Calcium</b>   | 5079                                  |   | 5000 | 102 | 4976                                   | J | 5000 | 100 | 5169                                   |   | 5000 | 103 |
| <b>Chromium</b>  | 11.55                                 |   | 10.0 | 116 | 9.97                                   | J | 10.0 | 100 | 10.35                                  |   | 10.0 | 104 |
| <b>Cobalt</b>    | 52.15                                 |   | 50.0 | 104 | 50.89                                  |   | 50.0 | 102 | 53.40                                  |   | 50.0 | 107 |
| <b>Copper</b>    | 25.38                                 |   | 25.0 | 102 | 19.97                                  | J | 25.0 | 80  | 20.86                                  | J | 25.0 | 83  |
| <b>Iron</b>      | 171.2                                 |   | 150  | 114 | 155.3                                  |   | 150  | 104 | 160.5                                  |   | 150  | 107 |
| <b>Lead</b>      | 10.21                                 |   | 10.0 | 102 | 9.56                                   | J | 10.0 | 96  | 10.12                                  |   | 10.0 | 101 |
| <b>Magnesium</b> | 4992                                  | J | 5000 | 100 | 4666                                   | J | 5000 | 93  | 4734                                   | J | 5000 | 95  |
| <b>Manganese</b> | 16.50                                 |   | 15.0 | 110 | 15.89                                  |   | 15.0 | 106 | 16.86                                  |   | 15.0 | 112 |
| <b>Nickel</b>    | 41.23                                 |   | 40.0 | 103 | 41.88                                  |   | 40.0 | 105 | 44.47                                  |   | 40.0 | 111 |
| <b>Potassium</b> | 4934                                  | J | 5000 | 99  | 5075                                   |   | 5000 | 102 | 5377                                   |   | 5000 | 108 |
| <b>Selenium</b>  | 20.14                                 |   | 20.0 | 101 | 15.44                                  | J | 20.0 | 77  | 17.31                                  | J | 20.0 | 87  |
| <b>Silver</b>    | 10.02                                 |   | 10.0 | 100 | 8.71                                   | J | 10.0 | 87  | 9.22                                   | J | 10.0 | 92  |
| <b>Sodium</b>    | 5044                                  |   | 5000 | 101 | 4951                                   | J | 5000 | 99  | 5242                                   |   | 5000 | 105 |
| <b>Thallium</b>  | 23.24                                 |   | 20.0 | 116 | 22.44                                  |   | 20.0 | 112 | 20.05                                  |   | 20.0 | 100 |
| <b>Vanadium</b>  | 51.33                                 |   | 50.0 | 103 | 50.46                                  |   | 50.0 | 101 | 53.01                                  |   | 50.0 | 106 |
| <b>Zinc</b>      | 31.97                                 |   | 30.0 | 107 | 30.89                                  |   | 30.0 | 103 | 32.42                                  |   | 30.0 | 108 |

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

2A-IN  
CALIBRATION VERIFICATIONS  
METALS

Lab Name: TestAmerica Edison Job No.: 460-109716-1

SDG No.: \_\_\_\_\_

ICV Source: ME\_Cal2\_BC\_00009 Concentration Units: ug/L

CCV Source: ME\_Cal2\_BC\_00009

| Analyte          | CCVL 460-354083/74<br>03/04/2016 16:09 |   |      |     | CCVL 460-354083/87<br>03/04/2016 17:19 |   |      |     |       |   |      |    |
|------------------|--|---|------|-----|--|---|------|-----|-------|---|------|----|
|                  | Found                                  | C | True | %R  | Found                                  | C | True | %R  | Found | C | True | %R |
| <b>Aluminum</b>  | 227.5                                  |   | 200  | 114 | 224.4                                  |   | 200  | 112 |       |   |      |    |
| <b>Antimony</b>  | 20.95                                  |   | 20.0 | 105 | 19.25                                  | J | 20.0 | 96  |       |   |      |    |
| <b>Arsenic</b>   | 16.72                                  |   | 15.0 | 111 | 13.83                                  | J | 15.0 | 92  |       |   |      |    |
| <b>Barium</b>    | 212.8                                  |   | 200  | 106 | 211.5                                  |   | 200  | 106 |       |   |      |    |
| <b>Beryllium</b> | 2.20                                   |   | 2.00 | 110 | 2.23                                   |   | 2.00 | 112 |       |   |      |    |
| <b>Cadmium</b>   | 4.45                                   |   | 4.00 | 111 | 4.50                                   |   | 4.00 | 112 |       |   |      |    |
| <b>Calcium</b>   | 5276                                   |   | 5000 | 106 | 5111                                   |   | 5000 | 102 |       |   |      |    |
| <b>Chromium</b>  | 10.84                                  |   | 10.0 | 108 | 10.54                                  |   | 10.0 | 105 |       |   |      |    |
| <b>Cobalt</b>    | 53.73                                  |   | 50.0 | 107 | 53.46                                  |   | 50.0 | 107 |       |   |      |    |
| <b>Copper</b>    | 22.23                                  | J | 25.0 | 89  | 22.07                                  | J | 25.0 | 88  |       |   |      |    |
| <b>Iron</b>      | 164.3                                  |   | 150  | 110 | 163.6                                  |   | 150  | 109 |       |   |      |    |
| <b>Lead</b>      | 11.95                                  |   | 10.0 | 120 | 9.95                                   | J | 10.0 | 100 |       |   |      |    |
| <b>Magnesium</b> | 4949                                   | J | 5000 | 99  | 4803                                   | J | 5000 | 96  |       |   |      |    |
| <b>Manganese</b> | 16.89                                  |   | 15.0 | 113 | 16.74                                  |   | 15.0 | 112 |       |   |      |    |
| <b>Nickel</b>    | 44.62                                  |   | 40.0 | 112 | 43.61                                  |   | 40.0 | 109 |       |   |      |    |
| <b>Potassium</b> | 5364                                   |   | 5000 | 107 | 5239                                   |   | 5000 | 105 |       |   |      |    |
| <b>Selenium</b>  | 17.07                                  | J | 20.0 | 85  | 16.62                                  | J | 20.0 | 83  |       |   |      |    |
| <b>Silver</b>    | 9.38                                   | J | 10.0 | 94  | 9.63                                   | J | 10.0 | 96  |       |   |      |    |
| <b>Sodium</b>    | 5256                                   |   | 5000 | 105 | 5220                                   |   | 5000 | 104 |       |   |      |    |
| <b>Thallium</b>  | 19.98                                  | J | 20.0 | 100 | 20.43                                  |   | 20.0 | 102 |       |   |      |    |
| <b>Vanadium</b>  | 53.48                                  |   | 50.0 | 107 | 52.74                                  |   | 50.0 | 105 |       |   |      |    |
| <b>Zinc</b>      | 33.18                                  |   | 30.0 | 111 | 32.26                                  |   | 30.0 | 108 |       |   |      |    |

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.: 460-109716-1

SDG No.: \_\_\_\_\_

Concentration Units: ug/L

| Analyte   | RL   | ICB 460-354083/8<br>03/04/2016 11:33 |   | CCB 460-354083/47<br>03/04/2016 14:26 |   | CCB 460-354083/60<br>03/04/2016 15:16 |   | CCB 460-354083/73<br>03/04/2016 16:05 |   |
|-----------|------|--------------------------------------|---|---------------------------------------|---|---------------------------------------|---|---------------------------------------|---|
|           |      | Found                                | C | Found                                 | C | Found                                 | C | Found                                 | C |
| Aluminum  | 200  | 200                                  | U | 200                                   | U | 200                                   | U | 200                                   | U |
| Antimony  | 20.0 | 20.0                                 | U | 20.0                                  | U | 20.0                                  | U | 20.0                                  | U |
| Arsenic   | 15.0 | 15.0                                 | U | 15.0                                  | U | 15.0                                  | U | 15.0                                  | U |
| Barium    | 200  | 200                                  | U | 200                                   | U | 200                                   | U | 200                                   | U |
| Beryllium | 2.0  | 2.0                                  | U | 2.0                                   | U | 2.0                                   | U | 2.0                                   | U |
| Cadmium   | 4.0  | 4.0                                  | U | 4.0                                   | U | 4.0                                   | U | 4.0                                   | U |
| Calcium   | 5000 | 5000                                 | U | 5000                                  | U | 5000                                  | U | 5000                                  | U |
| Chromium  | 10.0 | 10.0                                 | U | 10.0                                  | U | 10.0                                  | U | 10.0                                  | U |
| Cobalt    | 50.0 | 50.0                                 | U | 50.0                                  | U | 50.0                                  | U | 50.0                                  | U |
| Copper    | 25.0 | 25.0                                 | U | 25.0                                  | U | 25.0                                  | U | 25.0                                  | U |
| Iron      | 150  | 150                                  | U | 150                                   | U | 150                                   | U | 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.: 460-109716-1

SDG No.: \_\_\_\_\_

Concentration Units: ug/L

| Analyte   | RL   | CCB 460-354083/86<br>03/04/2016 17:15 |   |       |   |       |   |       |   |
|-----------|------|---------------------------------------|---|-------|---|-------|---|-------|---|
|           |      | 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.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Concentration Units: mg/Kg Lab Sample ID: MB 460-354017/1-A ^2  
 Instrument Code: ICP4 Batch No.: 354083

| 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.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICSA 460-354083/10 Instrument ID: ICP4  
 Lab File ID: 353918.asc ICS Source: ME\_ICSA\_Duo\_00066  
 Concentration Units: ug/L

| Analyte           | True<br>Solution A | Found<br>Solution A | Percent<br>Recovery |
|-------------------|--------------------|---------------------|---------------------|
| <b>Aluminum</b>   | <b>500000</b>      | <b>495100</b>       | <b>99</b>           |
| <b>Antimony</b>   |                    | <b>-3.61</b>        |                     |
| <b>Arsenic</b>    |                    | <b>-0.281</b>       |                     |
| <b>Barium</b>     |                    | <b>0.499</b>        |                     |
| <b>Beryllium</b>  |                    | <b>0.0548</b>       |                     |
| <b>Cadmium</b>    |                    | <b>-0.407</b>       |                     |
| <b>Calcium</b>    | <b>500000</b>      | <b>493000</b>       | <b>99</b>           |
| <b>Chromium</b>   |                    | <b>-1.34</b>        |                     |
| <b>Cobalt</b>     |                    | <b>-2.19</b>        |                     |
| <b>Copper</b>     |                    | <b>-1.05</b>        |                     |
| <b>Iron</b>       | <b>200000</b>      | <b>194100</b>       | <b>97</b>           |
| <b>Lead</b>       |                    | <b>-1.29</b>        |                     |
| <b>Magnesium</b>  | <b>500000</b>      | <b>503800</b>       | <b>101</b>          |
| <b>Manganese</b>  |                    | <b>-4.45</b>        |                     |
| <b>Nickel</b>     |                    | <b>-1.67</b>        |                     |
| <b>Potassium</b>  |                    | <b>-27.1</b>        |                     |
| <b>Selenium</b>   |                    | <b>-0.192</b>       |                     |
| <b>Silver</b>     |                    | <b>0.543</b>        |                     |
| <b>Sodium</b>     |                    | <b>-28.0</b>        |                     |
| <b>Thallium</b>   |                    | <b>1.96</b>         |                     |
| <b>Vanadium</b>   |                    | <b>-0.0933</b>      |                     |
| <b>Zinc</b>       |                    | <b>-3.66</b>        |                     |
| <i>Boron</i>      |                    | <i>-6.00</i>        |                     |
| <i>Molybdenum</i> |                    | <i>-0.354</i>       |                     |
| <i>Strontium</i>  |                    | <i>-1.60</i>        |                     |
| <i>Tin</i>        |                    | <i>-0.495</i>       |                     |
| <i>Titanium</i>   |                    | <i>0.0336</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.: 460-109716-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICSAB 460-354083/11 Instrument ID: ICP4  
 Lab File ID: 353918.asc ICS Source: ME\_ICSAB\_DUO\_00082  
 Concentration Units: ug/L

| Analyte           | True          | Found         |                  |
|-------------------|---------------|---------------|------------------|
|                   | Solution AB   | Solution AB   | Percent Recovery |
| <b>Aluminum</b>   | <b>500000</b> | <b>548500</b> | <b>110</b>       |
| <b>Antimony</b>   | <b>100</b>    | <b>103</b>    | <b>103</b>       |
| <b>Arsenic</b>    | <b>100</b>    | <b>100</b>    | <b>100</b>       |
| <b>Barium</b>     | <b>100</b>    | <b>109</b>    | <b>109</b>       |
| <b>Beryllium</b>  | <b>100</b>    | <b>107</b>    | <b>107</b>       |
| <b>Cadmium</b>    | <b>100</b>    | <b>104</b>    | <b>104</b>       |
| <b>Calcium</b>    | <b>500000</b> | <b>540900</b> | <b>108</b>       |
| <b>Chromium</b>   | <b>100</b>    | <b>107</b>    | <b>107</b>       |
| <b>Cobalt</b>     | <b>100</b>    | <b>102</b>    | <b>102</b>       |
| <b>Copper</b>     | <b>100</b>    | <b>114</b>    | <b>114</b>       |
| <b>Iron</b>       | <b>200000</b> | <b>212500</b> | <b>106</b>       |
| <b>Lead</b>       | <b>100</b>    | <b>96.6</b>   | <b>97</b>        |
| <b>Magnesium</b>  | <b>500000</b> | <b>547300</b> | <b>109</b>       |
| <b>Manganese</b>  | <b>100</b>    | <b>103</b>    | <b>103</b>       |
| <b>Nickel</b>     | <b>100</b>    | <b>102</b>    | <b>102</b>       |
| <b>Potassium</b>  | <b>10000</b>  | <b>11200</b>  | <b>112</b>       |
| <b>Selenium</b>   | <b>100</b>    | <b>100</b>    | <b>100</b>       |
| <b>Silver</b>     | <b>100</b>    | <b>113</b>    | <b>113</b>       |
| <b>Sodium</b>     | <b>10000</b>  | <b>11270</b>  | <b>113</b>       |
| <b>Thallium</b>   | <b>100</b>    | <b>106</b>    | <b>106</b>       |
| <b>Vanadium</b>   | <b>100</b>    | <b>109</b>    | <b>109</b>       |
| <b>Zinc</b>       | <b>100</b>    | <b>98.0</b>   | <b>98</b>        |
| <i>Boron</i>      | <i>100</i>    | <i>96.2</i>   | <i>96</i>        |
| <i>Molybdenum</i> | <i>100</i>    | <i>105</i>    | <i>105</i>       |
| <i>Strontium</i>  | <i>100</i>    | <i>108</i>    | <i>108</i>       |
| <i>Tin</i>        | <i>100</i>    | <i>104</i>    | <i>104</i>       |
| <i>Titanium</i>   | <i>100</i>    | <i>109</i>    | <i>109</i>       |

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

5A-IN  
MATRIX SPIKE SAMPLE RECOVERY  
METALS

Client ID: \_\_\_\_\_

Lab ID: 460-109595-A-3-C MS

Lab Name: TestAmerica Edison

Job No.: 460-109716-1

SDG No.: \_\_\_\_\_

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 65.2

| Analyte   | SSR<br>C | Sample<br>Result (SR)<br>C | Spike<br>Added (SA) | %R   | Control<br>Limit<br>%R | Q | Method |
|-----------|----------|----------------------------|---------------------|------|------------------------|---|--------|
| Aluminum  | 16700    | 16400                      | 307                 | 109  | 75-125                 | 4 | 6010C  |
| Antimony  | 66.36    | 6.1                        | 76.7                | 87   | 75-125                 |   | 6010C  |
| Arsenic   | 284.0    | 6.0                        | 307                 | 91   | 75-125                 |   | 6010C  |
| Barium    | 354.2    | 29.0                       | 307                 | 106  | 75-125                 |   | 6010C  |
| Beryllium | 8.63     | 0.61                       | 7.67                | 113  | 75-125                 |   | 6010C  |
| Cadmium   | 7.86     | 1.2                        | 7.67                | 103  | 75-125                 |   | 6010C  |
| Calcium   | 3542     | 275                        | 3070                | 107  | 75-125                 |   | 6010C  |
| Chromium  | 36.16    | 4.5                        | 30.7                | 103  | 75-125                 |   | 6010C  |
| Cobalt    | 83.41    | 2.4                        | 76.7                | 106  | 75-125                 |   | 6010C  |
| Copper    | 45.48    | 6.4                        | 38.3                | 102  | 75-125                 |   | 6010C  |
| Iron      | 13170    | 13600                      | 153                 | -274 | 75-125                 | 4 | 6010C  |
| Lead      | 75.16    | 4.0                        | 76.7                | 93   | 75-125                 |   | 6010C  |
| Magnesium | 2987     | 1530                       | 3070                | 97   | 75-125                 |   | 6010C  |
| Manganese | 1295     | 1240                       | 76.7                | 77   | 75-125                 | 4 | 6010C  |
| Nickel    | 89.36    | 3.5                        | 76.7                | 112  | 75-125                 |   | 6010C  |
| Potassium | 3309     | 105                        | 3070                | 104  | 75-125                 |   | 6010C  |
| Selenium  | 275.6    | 6.1                        | 307                 | 90   | 75-125                 |   | 6010C  |
| Silver    | 7.23     | 3.1                        | 7.67                | 94   | 75-125                 |   | 6010C  |
| Sodium    | 3272     | 1530                       | 3070                | 107  | 75-125                 |   | 6010C  |
| Thallium  | 305.3    | 6.1                        | 307                 | 100  | 75-125                 |   | 6010C  |
| Vanadium  | 88.78    | 7.3                        | 76.7                | 106  | 75-125                 |   | 6010C  |
| Zinc      | 92.03    | 10                         | 76.7                | 107  | 75-125                 |   | 6010C  |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.  
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5B-IN  
POST DIGESTION SPIKE SAMPLE RECOVERY  
METALS

Client ID: \_\_\_\_\_

Lab ID: 460-109595-A-3-A PDS

Lab Name: TestAmerica Edison

Job No.: 460-109716-1

SDG No.: \_\_\_\_\_

Matrix: Solid

Concentration Units: mg/Kg

| Analyte   | SSR<br>C | Sample<br>Result (SR)<br>C | Spike<br>Added (SA) | %R  | Control<br>Limit<br>%R | Q | Method |
|-----------|----------|----------------------------|---------------------|-----|------------------------|---|--------|
| Aluminum  | 16560    | 16400                      | 613                 | NC  | 80-120                 |   | 6010C  |
| Antimony  | 142.3    | 6.1 U                      | 153                 | 93  | 80-120                 |   | 6010C  |
| Arsenic   | 535.1    | 6.0                        | 613                 | 86  | 80-120                 |   | 6010C  |
| Barium    | 633.9    | 29.0 J                     | 613                 | 99  | 80-120                 |   | 6010C  |
| Beryllium | 16.02    | 0.61 U                     | 15.3                | 104 | 80-120                 |   | 6010C  |
| Cadmium   | 14.89    | 1.2 U                      | 15.3                | 97  | 80-120                 |   | 6010C  |
| Calcium   | 6161     | 275 J                      | 6130                | 96  | 80-120                 |   | 6010C  |
| Chromium  | 62.10    | 4.5                        | 61.3                | 94  | 80-120                 |   | 6010C  |
| Cobalt    | 153.7    | 2.4 J                      | 153                 | 99  | 80-120                 |   | 6010C  |
| Copper    | 79.55    | 6.4 J                      | 76.7                | 95  | 80-120                 |   | 6010C  |
| Iron      | 13220    | 13600                      | 307                 | NC  | 80-120                 |   | 6010C  |
| Lead      | 139.1    | 4.0                        | 153                 | 88  | 80-120                 |   | 6010C  |
| Magnesium | 5296     | 1530 U                     | 6130                | 86  | 80-120                 |   | 6010C  |
| Manganese | 1342     | 1240                       | 153                 | 69  | 80-120                 |   | 6010C  |
| Nickel    | 162.9    | 3.5 J                      | 153                 | 104 | 80-120                 |   | 6010C  |
| Potassium | 6063     | 105 J                      | 6130                | 97  | 80-120                 |   | 6010C  |
| Selenium  | 532.4    | 6.1 U                      | 613                 | 87  | 80-120                 |   | 6010C  |
| Silver    | 13.56    | 3.1 U                      | 15.3                | 88  | 80-120                 |   | 6010C  |
| Sodium    | 6069     | 1530 U                     | 6130                | 99  | 80-120                 |   | 6010C  |
| Thallium  | 577.5    | 6.1 U                      | 613                 | 94  | 80-120                 |   | 6010C  |
| Vanadium  | 159.3    | 7.3 J                      | 153                 | 99  | 80-120                 |   | 6010C  |
| Zinc      | 160.5    | 10                         | 153                 | 98  | 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: \_\_\_\_\_

Lab ID: 460-109595-A-3-B DU \_\_\_\_\_

Lab Name: TestAmerica Edison \_\_\_\_\_

Job No.: 460-109716-1 \_\_\_\_\_

SDG No.: \_\_\_\_\_

% Solids for Sample: 65.2 \_\_\_\_\_

% Solids for Duplicate: 65.2 \_\_\_\_\_

Matrix: Solid \_\_\_\_\_

Concentration Units: mg/Kg \_\_\_\_\_

| Analyte   | Control Limit | Sample (S)<br>C | Duplicate (D)<br>C | RPD | Q | Method |
|-----------|---------------|-----------------|--------------------|-----|---|--------|
| Aluminum  | 61.3          | 16400           |                    | 1   |   | 6010C  |
| Antimony  | 6.1           | 6.1 U           | 6.1 U              | NC  |   | 6010C  |
| Arsenic   | 4.6           | 6.0             | 5.48               | 9   |   | 6010C  |
| Barium    | 61.3          | 29.0 J          | 29.13 J            | 0.4 |   | 6010C  |
| Beryllium | 0.61          | 0.61 U          | 0.61 U             | NC  |   | 6010C  |
| Cadmium   | 1.2           | 1.2 U           | 1.2 U              | NC  |   | 6010C  |
| Calcium   | 1530          | 275 J           | 279.6 J            | 2   |   | 6010C  |
| Chromium  | 3.1           | 4.5             | 4.37               | 4   |   | 6010C  |
| Cobalt    | 15.3          | 2.4 J           | 2.29 J             | 5   |   | 6010C  |
| Copper    | 7.7           | 6.4 J           | 6.43 J             | 0.5 |   | 6010C  |
| Iron      | 46.0          | 13600           | 13810              | 2   |   | 6010C  |
| Lead      | 3.1           | 4.0             | 3.80               | 4   |   | 6010C  |
| Magnesium | 1530          | 1530 U          | 1530 U             | NC  |   | 6010C  |
| Manganese | 4.6           | 1240            | 1253               | 1   |   | 6010C  |
| Nickel    | 12.3          | 3.5 J           | 3.53 J             | 2   |   | 6010C  |
| Potassium | 1530          | 105 J           | 93.59 J            | 11  |   | 6010C  |
| Selenium  | 6.1           | 6.1 U           | 6.1 U              | NC  |   | 6010C  |
| Silver    | 3.1           | 3.1 U           | 3.1 U              | NC  |   | 6010C  |
| Sodium    | 1530          | 1530 U          | 1530 U             | NC  |   | 6010C  |
| Thallium  | 6.1           | 6.1 U           | 6.1 U              | NC  |   | 6010C  |
| Vanadium  | 15.3          | 7.3 J           | 7.30 J             | 0.5 |   | 6010C  |
| Zinc      | 9.2           | 10              | 10.24              | 2   |   | 6010C  |

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

7A-IN  
LCS-CERTIFIED REFERENCE MATERIAL  
METALS

Lab ID: LCSSRM 460-354017/2-A

Lab Name: TestAmerica Edison

Job No.: 460-109716-1

Sample Matrix: Solid

LCS Source: ME\_LCSS\_87\_00006

| Analyte   | Solid (mg/Kg) |       |   |       |        |       |   |        |
|-----------|---------------|-------|---|-------|--------|-------|---|--------|
|           | True          | Found | C | %R    | Limits |       | Q | Method |
| Aluminum  | 7930          | 5936  |   | 74.9  | 50.2   | 150.1 |   | 6010C  |
| Antimony  | 105           | 178.9 |   | 170.4 | 0.1    | 201.0 |   | 6010C  |
| Arsenic   | 98.5          | 91.32 |   | 92.7  | 77.8   | 122.8 |   | 6010C  |
| Barium    | 308           | 309.4 |   | 100.5 | 82.5   | 117.5 |   | 6010C  |
| Beryllium | 66.0          | 67.78 |   | 102.7 | 83.0   | 116.8 |   | 6010C  |
| Cadmium   | 146           | 148.9 |   | 102.0 | 82.9   | 117.8 |   | 6010C  |
| Calcium   | 6610          | 6548  |   | 99.1  | 83.7   | 116.2 |   | 6010C  |
| Chromium  | 182           | 182.3 |   | 100.2 | 79.7   | 120.3 |   | 6010C  |
| Cobalt    | 162           | 169.1 |   | 104.4 | 83.3   | 116.0 |   | 6010C  |
| Copper    | 106           | 103.7 |   | 97.8  | 81.5   | 118.9 |   | 6010C  |
| Iron      | 14400         | 14280 |   | 99.2  | 44.1   | 155.6 |   | 6010C  |
| Lead      | 130           | 122.0 |   | 93.8  | 82.3   | 117.7 |   | 6010C  |
| Magnesium | 2640          | 2184  |   | 82.7  | 75.8   | 124.6 |   | 6010C  |
| Manganese | 410           | 446.4 |   | 108.9 | 81.2   | 119.0 |   | 6010C  |
| Nickel    | 149           | 162.4 |   | 109.0 | 82.6   | 117.4 |   | 6010C  |
| Potassium | 2550          | 2378  |   | 93.3  | 69.0   | 130.6 |   | 6010C  |
| Selenium  | 154           | 139.2 |   | 90.4  | 77.9   | 122.1 |   | 6010C  |
| Silver    | 40.9          | 38.16 |   | 93.3  | 75.1   | 124.7 |   | 6010C  |
| Sodium    | 2480          | 2398  |   | 96.7  | 70.6   | 129.0 |   | 6010C  |
| Thallium  | 175           | 172.3 |   | 98.4  | 78.3   | 121.1 |   | 6010C  |
| Vanadium  | 96.7          | 99.30 |   | 102.7 | 77.2   | 123.1 |   | 6010C  |
| Zinc      | 191           | 196.7 |   | 103.0 | 83.2   | 116.8 |   | 6010C  |

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

FORM VIIA - IN

8-IN  
ICP-AES AND ICP-MS SERIAL DILUTIONS  
METALS

Lab ID: 460-109595-A-3-A SD

SDG No:

Lab Name: TestAmerica Edison

Job No: 460-109716-1

Matrix: Solid

Concentration Units: mg/Kg

| Analyte   | Initial Sample<br>Result (I) C |   | Serial<br>Dilution<br>Result (S) C |   | %<br>Difference | Q | Method |
|-----------|--------------------------------|---|------------------------------------|---|-----------------|---|--------|
| Aluminum  | 16400                          |   | 15700                              |   | 4.1             |   | 6010C  |
| Antimony  | 6.1                            | U | 30.7                               | U | NC              |   | 6010C  |
| Arsenic   | 6.0                            |   | 7.77                               | J | NC              |   | 6010C  |
| Barium    | 29.0                           | J | 27.45                              | J | NC              |   | 6010C  |
| Beryllium | 0.61                           | U | 3.1                                | U | NC              |   | 6010C  |
| Cadmium   | 1.2                            | U | 6.1                                | U | NC              |   | 6010C  |
| Calcium   | 275                            | J | 7670                               | U | NC              |   | 6010C  |
| Chromium  | 4.5                            |   | 15.3                               | U | NC              |   | 6010C  |
| Cobalt    | 2.4                            | J | 76.7                               | U | NC              |   | 6010C  |
| Copper    | 6.4                            | J | 38.3                               | U | NC              |   | 6010C  |
| Iron      | 13600                          |   | 13350                              |   | 1.8             |   | 6010C  |
| Lead      | 4.0                            |   | 15.3                               | U | NC              |   | 6010C  |
| Magnesium | 1530                           | U | 7670                               | U | NC              |   | 6010C  |
| Manganese | 1240                           |   | 1178                               |   | 4.7             |   | 6010C  |
| Nickel    | 3.5                            | J | 61.3                               | U | NC              |   | 6010C  |
| Potassium | 105                            | J | 7670                               | U | NC              |   | 6010C  |
| Selenium  | 6.1                            | U | 30.7                               | U | NC              |   | 6010C  |
| Silver    | 3.1                            | U | 15.3                               | U | NC              |   | 6010C  |
| Sodium    | 1530                           | U | 7670                               | U | NC              |   | 6010C  |
| Thallium  | 6.1                            | U | 30.7                               | U | NC              |   | 6010C  |
| Vanadium  | 7.3                            | J | 76.7                               | U | NC              |   | 6010C  |
| Zinc      | 10                             |   | 46.0                               | U | NC              |   | 6010C  |

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

FORM VIII-IN

9-IN  
DETECTION LIMITS  
METALS

Lab Name: TestAmerica Edison Job Number: 460-109716-1  
 SDG Number: \_\_\_\_\_  
 Matrix: Solid Instrument ID: ICP4  
 Method: 6010C MDL Date: 05/05/2015 13:01  
 Prep Method: 3050B

| Analyte   | Wavelength/<br>Mass | RL<br>(mg/Kg) | MDL<br>(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: 460-109716-1

SDG Number: \_\_\_\_\_

Matrix: Solid

Instrument ID: ICP4

Method: 6010C

XMDL Date: 05/05/2015 12:52

| Analyte   | Wavelength/<br>Mass | XRL<br>(ug/L) | XMDL<br>(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.: 460-109716-1

SDG No.: \_\_\_\_\_

Prep Method: 3050B

| Lab<br>Sample<br>ID   | Preparation<br>Date | Prep<br>Batch | Initial<br>Weight<br>(g) | Initial<br>Volume | Final<br>Volume<br>(mL) |
|-----------------------|---------------------|---------------|--------------------------|-------------------|-------------------------|
| MB 460-354017/1-A ^2  | 03/04/2016 07:41    | 354017        | 1.0                      |                   | 50                      |
| LCSSRM 460-354017/2-A | 03/04/2016 07:41    | 354017        | 1.0                      |                   | 50                      |
| 460-109595-A-3-B DU   | 03/04/2016 07:41    | 354017        | 1.0                      |                   | 50                      |
| 460-109595-A-3-C MS   | 03/04/2016 07:41    | 354017        | 1.0                      |                   | 50                      |
| 460-109716-1          | 03/04/2016 07:41    | 354017        | 1.03                     |                   | 50                      |

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Edison Job No.: 460-109716-1

SDG No.: \_\_\_\_\_

Instrument ID: ICP4 Method: 6010C

Start Date: 03/04/2016 11:07 End Date: 03/04/2016 22:24

| Lab<br>Sample<br>ID | D<br>/<br>F | T<br>y<br>p<br>e | Time  | Analytes |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
|---------------------|-------------|------------------|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|--------|--------|--------|--------|
|                     |             |                  |       | A<br>g   | A<br>l | A<br>s | B<br>a | B<br>e | C<br>a | C<br>d | C<br>o | C<br>r | C<br>u | F<br>e | K | M<br>g | M<br>n | N<br>a | N<br>i | P<br>b | S<br>b | S<br>e | T<br>l |
| ICIS 460-354083/1   | 1           |                  | 11:07 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      | X      |
| ZZZZZZ              |             |                  | 11:11 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 11:15 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 11:19 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 11:22 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 11:26 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ICV 460-354083/7    | 1           |                  | 11:30 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      | X      |
| ICB 460-354083/8    | 1           |                  | 11:33 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      | X      |
| ICVL 460-354083/9   | 1           |                  | 11:37 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      | X      |
| ICSA 460-354083/10  | 1           |                  | 11:41 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      | X      |
| ICSAB 460-354083/11 | 1           |                  | 11:45 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      | X      |
| ZZZZZZ              |             |                  | 11:49 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 11:53 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 11:57 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 12:00 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCV 460-354083/16   |             |                  | 12:04 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCB 460-354083/17   |             |                  | 12:08 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCVL 460-354083/18  |             |                  | 12:11 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 12:31 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 12:35 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 12:39 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 12:43 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 12:47 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 12:50 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 12:54 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 12:58 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 13:02 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 13:05 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCV 460-354083/29   |             |                  | 13:09 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCB 460-354083/30   |             |                  | 13:13 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCVL 460-354083/31  |             |                  | 13:17 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 13:20 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 13:24 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 13:28 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 13:32 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 13:36 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 13:40 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 13:43 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 13:47 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 13:51 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 13:55 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCV 460-354083/42   |             |                  | 13:58 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Edison Job No.: 460-109716-1

SDG No.: \_\_\_\_\_

Instrument ID: ICP4 Method: 6010C

Start Date: 03/04/2016 11:07 End Date: 03/04/2016 22:24

| Lab<br>Sample<br>ID   | D<br>/<br>F | T<br>y<br>p<br>e | Time  | Analytes |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
|-----------------------|-------------|------------------|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|--------|--------|--------|--------|
|                       |             |                  |       | A<br>g   | A<br>l | A<br>s | B<br>a | B<br>e | C<br>a | C<br>d | C<br>o | C<br>r | C<br>u | F<br>e | K | M<br>g | M<br>n | N<br>a | N<br>i | P<br>b | S<br>b | S<br>e | T<br>l |
| CCB 460-354083/43     |             |                  | 14:02 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCVL 460-354083/44    |             |                  | 14:06 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ                |             |                  | 14:10 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCV 460-354083/46     | 1           |                  | 14:22 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      |        |
| CCB 460-354083/47     | 1           |                  | 14:26 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      |        |
| CCVL 460-354083/48    | 1           |                  | 14:30 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      |        |
| ZZZZZZ                |             |                  | 14:34 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ                |             |                  | 14:37 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ                |             |                  | 14:41 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ                |             |                  | 14:45 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ                |             |                  | 14:49 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ                |             |                  | 14:53 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ                |             |                  | 14:57 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ                |             |                  | 15:01 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| MB 460-354017/1-A ^2  | 2           | T                | 15:05 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      |        |
| LCSSRM 460-354017/2-A | 4           | T                | 15:09 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      |        |
| CCV 460-354083/59     | 1           |                  | 15:12 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      |        |
| CCB 460-354083/60     | 1           |                  | 15:16 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      |        |
| CCVL 460-354083/61    | 1           |                  | 15:20 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      |        |
| 460-109595-A-3-B DU   | 4           | T                | 15:24 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      |        |
| ZZZZZZ                |             |                  | 15:27 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| 460-109595-A-3-A SD   | 20          | T                | 15:31 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      |        |
| 460-109595-A-3-C MS   | 4           | T                | 15:35 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      |        |
| 460-109595-A-3-A PDS  | 4           | T                | 15:39 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      |        |
| ZZZZZZ                |             |                  | 15:42 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ                |             |                  | 15:46 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ                |             |                  | 15:50 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ                |             |                  | 15:54 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ                |             |                  | 15:58 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCV 460-354083/72     | 1           |                  | 16:02 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      |        |
| CCB 460-354083/73     | 1           |                  | 16:05 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      |        |
| CCVL 460-354083/74    | 1           |                  | 16:09 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      |        |
| ZZZZZZ                |             |                  | 16:33 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| 460-109716-1          | 4           | T                | 16:37 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      |        |
| ZZZZZZ                |             |                  | 16:41 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ                |             |                  | 16:45 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ                |             |                  | 16:48 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ                |             |                  | 16:52 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ                |             |                  | 16:56 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ                |             |                  | 17:00 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ                |             |                  | 17:04 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ                |             |                  | 17:08 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Edison Job No.: 460-109716-1

SDG No.: \_\_\_\_\_

Instrument ID: ICP4 Method: 6010C

Start Date: 03/04/2016 11:07 End Date: 03/04/2016 22:24

| Lab<br>Sample<br>ID | D<br>/<br>F | T<br>y<br>p<br>e | Time  | Analytes |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
|---------------------|-------------|------------------|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|--------|--------|--------|--------|
|                     |             |                  |       | A<br>g   | A<br>l | A<br>s | B<br>a | B<br>e | C<br>a | C<br>d | C<br>o | C<br>r | C<br>u | F<br>e | K | M<br>g | M<br>n | N<br>a | N<br>i | P<br>b | S<br>b | S<br>e | T<br>l |
| CCV 460-354083/85   | 1           |                  | 17:12 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      | X      |
| CCB 460-354083/86   | 1           |                  | 17:15 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      | X      |
| CCVL 460-354083/87  | 1           |                  | 17:19 | X        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X | X      | X      | X      | X      | X      | X      | X      | X      |
| ZZZZZZ              |             |                  | 17:23 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 17:27 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 17:31 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 17:35 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 17:39 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 17:43 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 17:46 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 17:50 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 17:54 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 17:58 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCV 460-354083/98   |             |                  | 18:02 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCB 460-354083/99   |             |                  | 18:05 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCVL 460-354083/100 |             |                  | 18:09 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 18:13 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 18:17 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 18:21 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 18:25 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 18:29 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 18:32 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 18:36 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 18:40 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 18:44 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 18:48 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCV 460-354083/111  |             |                  | 18:52 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCB 460-354083/112  |             |                  | 18:55 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCVL 460-354083/113 |             |                  | 18:59 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 19:03 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 19:07 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 19:11 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 19:15 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 19:19 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 19:23 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 19:27 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 19:31 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 19:34 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 19:38 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCV 460-354083/124  |             |                  | 19:42 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCB 460-354083/125  |             |                  | 19:46 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCVL 460-354083/126 |             |                  | 19:50 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Edison Job No.: 460-109716-1

SDG No.: \_\_\_\_\_

Instrument ID: ICP4 Method: 6010C

Start Date: 03/04/2016 11:07 End Date: 03/04/2016 22:24

| Lab<br>Sample<br>ID | D<br>/<br>F | T<br>y<br>p<br>e | Time  | Analytes |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
|---------------------|-------------|------------------|-------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---|--------|--------|--------|--------|--------|--------|--------|--------|
|                     |             |                  |       | A<br>g   | A<br>l | A<br>s | B<br>a | B<br>e | C<br>a | C<br>d | C<br>o | C<br>r | C<br>u | F<br>e | K | M<br>g | M<br>n | N<br>a | N<br>i | P<br>b | S<br>b | S<br>e | T<br>l |
| ZZZZZZ              |             |                  | 19:54 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 19:58 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 20:01 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 20:05 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 20:09 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 20:13 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 20:17 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 20:21 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 20:25 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 20:29 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCV 460-354083/137  |             |                  | 20:33 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCB 460-354083/138  |             |                  | 20:37 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCVL 460-354083/139 |             |                  | 20:41 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 20:45 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 20:49 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 20:53 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 20:57 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCV 460-354083/144  |             |                  | 21:01 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCB 460-354083/145  |             |                  | 21:05 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCVL 460-354083/146 |             |                  | 21:09 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCV 460-354083/147  |             |                  | 22:02 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCB 460-354083/148  |             |                  | 22:05 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCVL 460-354083/149 |             |                  | 22:09 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| ZZZZZZ              |             |                  | 22:13 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCV 460-354083/151  |             |                  | 22:16 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCB 460-354083/152  |             |                  | 22:20 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |
| CCVL 460-354083/153 |             |                  | 22:24 |          |        |        |        |        |        |        |        |        |        |        |   |        |        |        |        |        |        |        |        |

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Edison Job No.: 460-109716-1

SDG No.: \_\_\_\_\_

Instrument ID: ICP4 Method: 6010C

Start Date: 03/04/2016 11:07 End Date: 03/04/2016 22:24

| Lab<br>Sample<br>ID | D<br>/<br>F | T<br>y<br>p<br>e | Time  | Analytes |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------|-------------|------------------|-------|----------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                     |             |                  |       | V        | Z<br>n |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ICIS 460-354083/1   | 1           |                  | 11:07 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 11:11 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 11:15 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 11:19 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 11:22 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 11:26 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ICV 460-354083/7    | 1           |                  | 11:30 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ICB 460-354083/8    | 1           |                  | 11:33 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ICVL 460-354083/9   | 1           |                  | 11:37 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ICSA 460-354083/10  | 1           |                  | 11:41 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ICSAB 460-354083/11 | 1           |                  | 11:45 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 11:49 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 11:53 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 11:57 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 12:00 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 460-354083/16   |             |                  | 12:04 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 460-354083/17   |             |                  | 12:08 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCVL 460-354083/18  |             |                  | 12:11 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 12:31 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 12:35 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 12:39 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 12:43 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 12:47 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 12:50 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 12:54 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 12:58 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 13:02 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 13:05 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 460-354083/29   |             |                  | 13:09 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 460-354083/30   |             |                  | 13:13 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCVL 460-354083/31  |             |                  | 13:17 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 13:20 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 13:24 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 13:28 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 13:32 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 13:36 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 13:40 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 13:43 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 13:47 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 13:51 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 13:55 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 460-354083/42   |             |                  | 13:58 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Edison Job No.: 460-109716-1

SDG No.: \_\_\_\_\_

Instrument ID: ICP4 Method: 6010C

Start Date: 03/04/2016 11:07 End Date: 03/04/2016 22:24

| Lab<br>Sample<br>ID   | D<br>/<br>F | T<br>y<br>p<br>e | Time  | Analytes |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------|-------------|------------------|-------|----------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                       |             |                  |       | V        | Z<br>n |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 460-354083/43     |             |                  | 14:02 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCVL 460-354083/44    |             |                  | 14:06 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 14:10 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 460-354083/46     | 1           |                  | 14:22 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 460-354083/47     | 1           |                  | 14:26 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCVL 460-354083/48    | 1           |                  | 14:30 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 14:34 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 14:37 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 14:41 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 14:45 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 14:49 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 14:53 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 14:57 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 15:01 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MB 460-354017/1-A ^2  | 2           | T                | 15:05 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LCSSRM 460-354017/2-A | 4           | T                | 15:09 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 460-354083/59     | 1           |                  | 15:12 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 460-354083/60     | 1           |                  | 15:16 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCVL 460-354083/61    | 1           |                  | 15:20 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 460-109595-A-3-B DU   | 4           | T                | 15:24 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 15:27 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 460-109595-A-3-A SD   | 20          | T                | 15:31 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 460-109595-A-3-C MS   | 4           | T                | 15:35 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 460-109595-A-3-A PDS  | 4           | T                | 15:39 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 15:42 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 15:46 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 15:50 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 15:54 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 15:58 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 460-354083/72     | 1           |                  | 16:02 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 460-354083/73     | 1           |                  | 16:05 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCVL 460-354083/74    | 1           |                  | 16:09 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 16:33 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 460-109716-1          | 4           | T                | 16:37 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 16:41 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 16:45 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 16:48 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 16:52 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 16:56 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 17:00 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 17:04 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ                |             |                  | 17:08 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Edison Job No.: 460-109716-1

SDG No.: \_\_\_\_\_

Instrument ID: ICP4 Method: 6010C

Start Date: 03/04/2016 11:07 End Date: 03/04/2016 22:24

| Lab<br>Sample<br>ID | D<br>/<br>F | T<br>y<br>p<br>e | Time  | Analytes |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------|-------------|------------------|-------|----------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                     |             |                  |       | V        | Z<br>n |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 460-354083/85   | 1           |                  | 17:12 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 460-354083/86   | 1           |                  | 17:15 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCVL 460-354083/87  | 1           |                  | 17:19 | X        | X      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 17:23 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 17:27 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 17:31 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 17:35 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 17:39 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 17:43 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 17:46 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 17:50 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 17:54 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 17:58 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 460-354083/98   |             |                  | 18:02 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 460-354083/99   |             |                  | 18:05 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCVL 460-354083/100 |             |                  | 18:09 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 18:13 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 18:17 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 18:21 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 18:25 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 18:29 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 18:32 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 18:36 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 18:40 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 18:44 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 18:48 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 460-354083/111  |             |                  | 18:52 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 460-354083/112  |             |                  | 18:55 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCVL 460-354083/113 |             |                  | 18:59 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:03 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:07 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:11 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:15 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:19 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:23 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:27 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:31 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:34 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:38 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 460-354083/124  |             |                  | 19:42 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 460-354083/125  |             |                  | 19:46 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCVL 460-354083/126 |             |                  | 19:50 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

13-IN  
ANALYSIS RUN LOG  
METALS

Lab Name: TestAmerica Edison Job No.: 460-109716-1

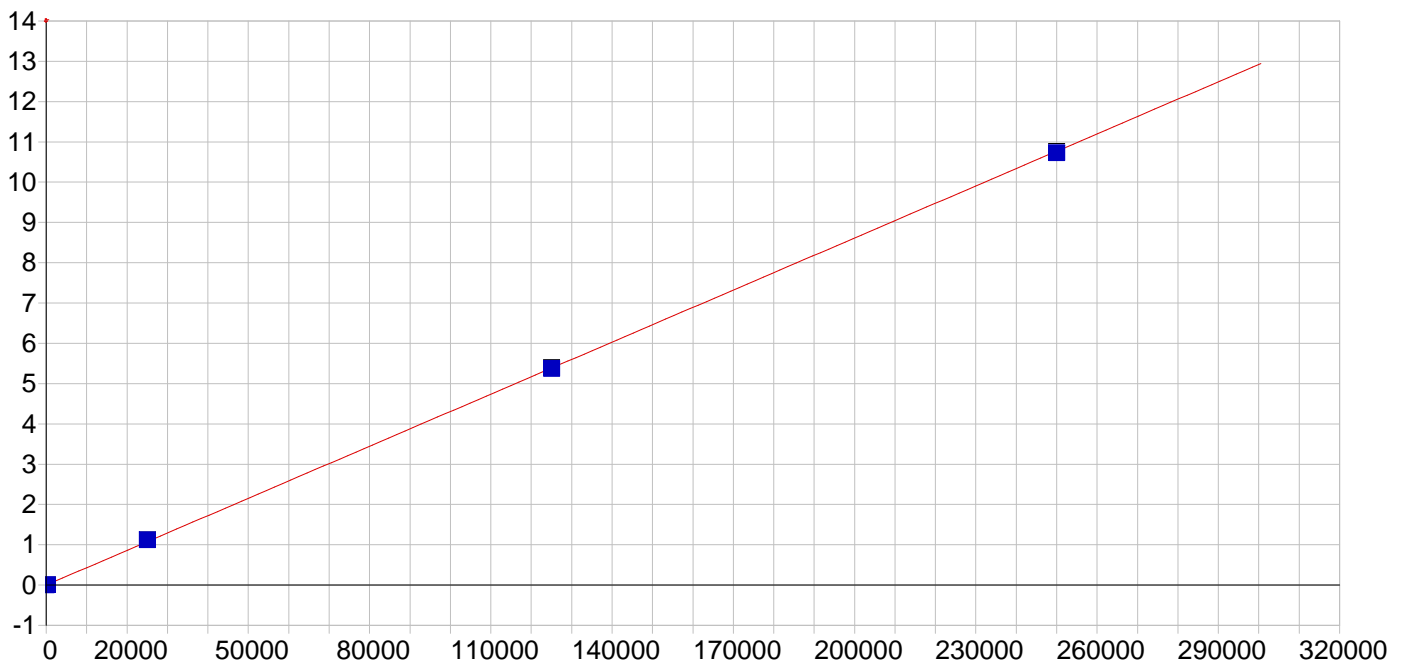
SDG No.: \_\_\_\_\_

Instrument ID: ICP4 Method: 6010C

Start Date: 03/04/2016 11:07 End Date: 03/04/2016 22:24

| Lab<br>Sample<br>ID | D<br>/<br>F | T<br>y<br>p<br>e | Time  | Analytes |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------|-------------|------------------|-------|----------|--------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                     |             |                  |       | V        | Z<br>n |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:54 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:58 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 20:01 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 20:05 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 20:09 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 20:13 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 20:17 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 20:21 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 20:25 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 20:29 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 460-354083/137  |             |                  | 20:33 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 460-354083/138  |             |                  | 20:37 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCVL 460-354083/139 |             |                  | 20:41 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 20:45 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 20:49 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 20:53 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 20:57 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 460-354083/144  |             |                  | 21:01 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 460-354083/145  |             |                  | 21:05 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCVL 460-354083/146 |             |                  | 21:09 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 460-354083/147  |             |                  | 22:02 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 460-354083/148  |             |                  | 22:05 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCVL 460-354083/149 |             |                  | 22:09 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 22:13 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCV 460-354083/151  |             |                  | 22:16 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCB 460-354083/152  |             |                  | 22:20 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCVL 460-354083/153 |             |                  | 22:24 |          |        |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Prep Types  
T = Total/NA

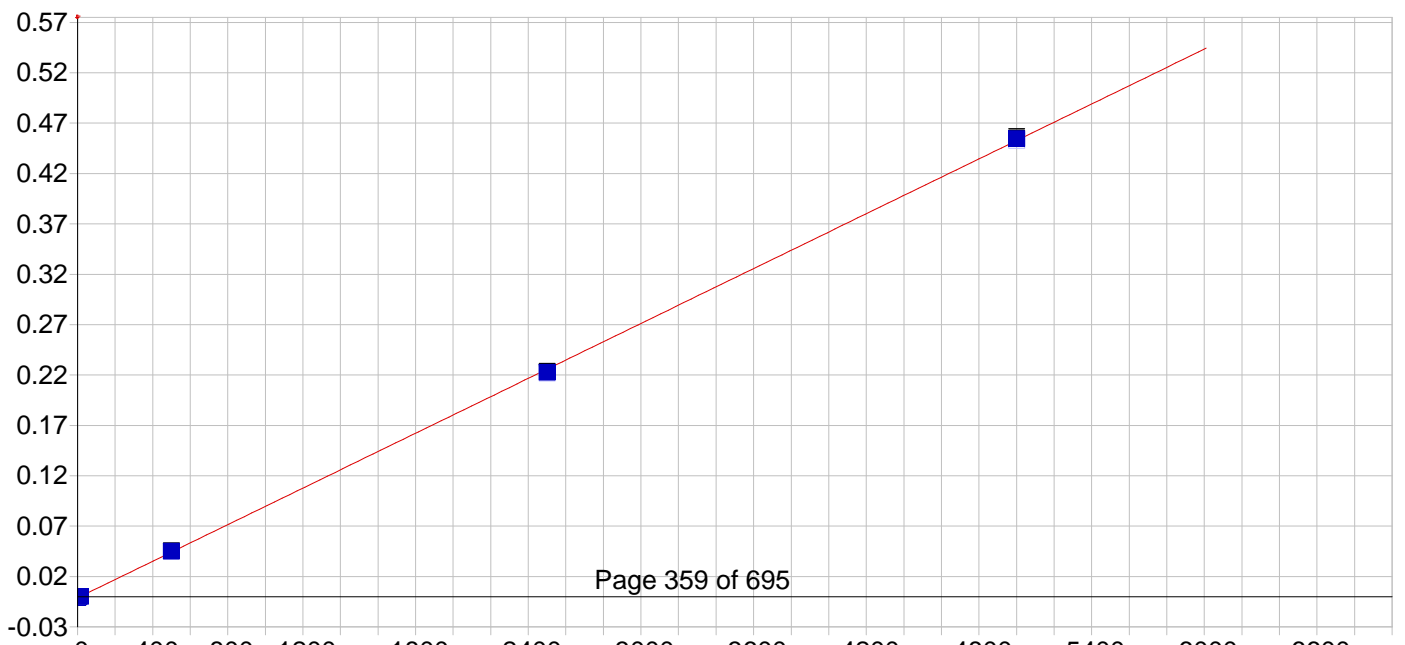


AI 396.152 { 85}

Date of Fit: 3/4/2016 12:28:08 Type of Fit: Linear Weighting: 1/Conc

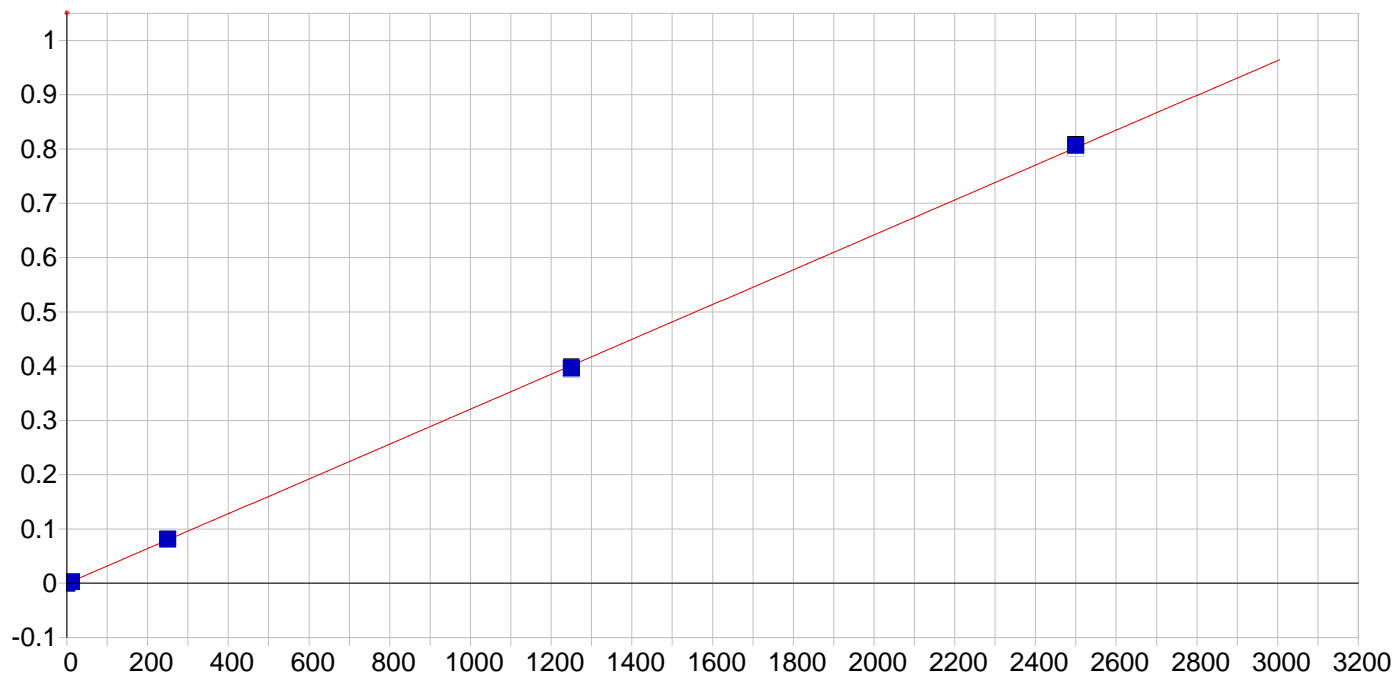
A0 (Offset): -0.000342 Re-Slope: 1.000000  
 A1 (Gain): 0.000043 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999934 Status: OK.  
 Std Error of Est: 0.000180  
 Predicted MDL: 17.475879  
 Predicted MQL: 58.252930

| Std. Name    | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|--------------|--------------|-------------|------------|---------|---------|---------|----------|
| ICIS Cal Blk | .00000       | -.02525     | -.025      | .000    | -.00034 | .000    | 1        |
| CAL2         | 200.00       | 217.60      | 17.6       | 8.80    | .00906  | .000    | 1        |
| CAL3         | 25000.       | 26089.      | 1090.      | 4.36    | 1.1242  | .006    | 1        |
| CAL4         | 125000.      | 124780.     | -224.      | -.179   | 5.3780  | .017    | 1        |
| CAL5         | 250000.      | 249120.     | -883.      | -.353   | 10.738  | .019    | 1        |



Std Error of Est: 0.000015  
 Predicted MDL: 2.578871  
 Predicted MQL: 8.596237

| Std. Name    | Stated | Conc. | Found   | Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|--------------|--------|-------|---------|-------|------------|---------|---------|---------|----------|
| ICIS Cal Blk | .00000 |       | -.00414 |       | -.004      | .000    | -.00118 | .000    | 1        |
| CAL2         | 15.000 |       | 16.195  |       | 1.19       | 7.97    | .00029  | .000    | 1        |
| CAL3         | 500.00 |       | 509.26  |       | 9.26       | 1.85    | .04487  | .000    | 1        |
| CAL4         | 2500.0 |       | 2466.4  |       | -33.6      | -1.34   | .22181  | .001    | 1        |
| CAL5         | 5000.0 |       | 5019.4  |       | 19.4       | .388    | .45266  | .002    | 1        |
| CAL1         | 5.0000 |       | 8.6953  |       | 3.70       | 73.9    | -.00039 | .000    | 1        |

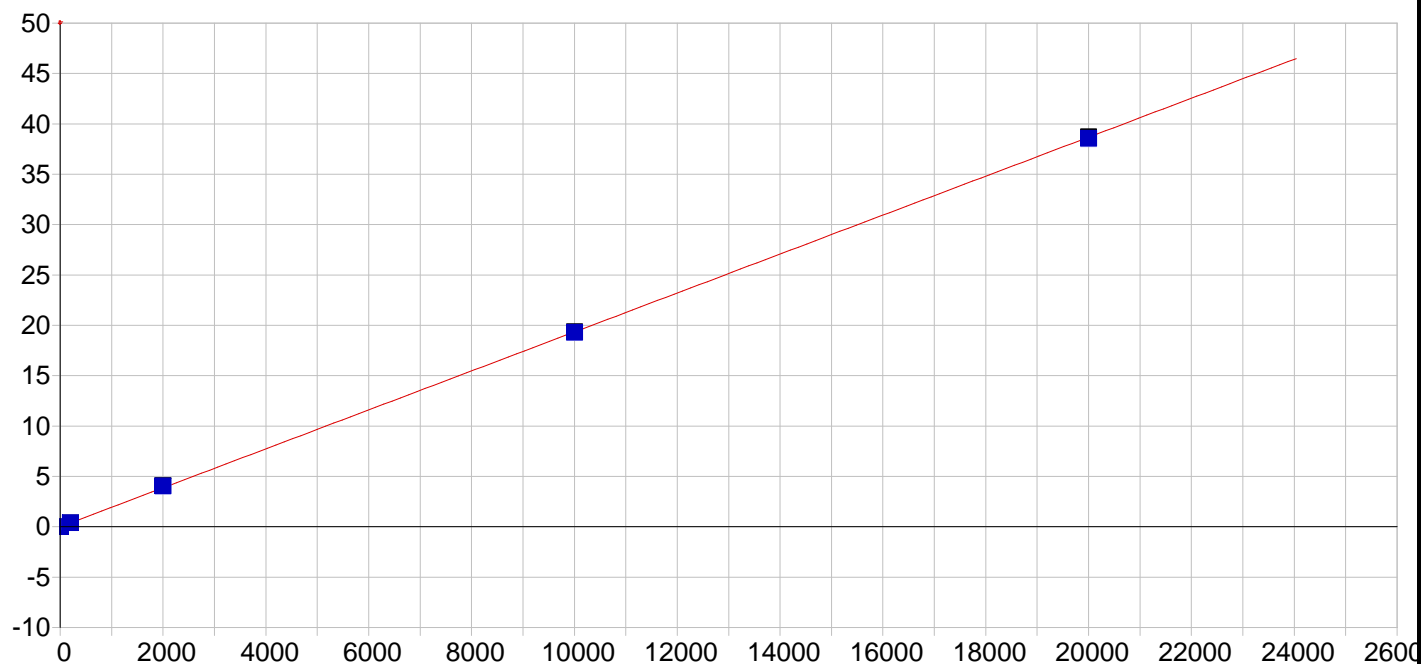


Ag 328.068 {103}

Date of Fit: 3/4/2016 12:28:08      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset): -0.000399      Re-Slope: 1.000000  
 A1 (Gain): 0.000321      Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999965      Status: OK.  
 Std Error of Est: 0.000022  
 Predicted MDL: 0.649762  
 Predicted MQL: 2.165874

| Std. Name    | Stated | Conc. | Found  | Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|--------------|--------|-------|--------|-------|------------|---------|---------|---------|----------|
| ICIS Cal Blk | .00000 |       | .00007 |       | .000       | .000    | -.00040 | .000    | 1        |
| CAL2         | 10.000 |       | 9.8919 |       | -.108      | -1.08   | .00274  | .000    | 1        |
| CAL3         | 250.00 |       | 252.84 |       | 2.84       | 1.14    | .08021  | .000    | 1        |
| CAL4         | 1250.0 |       | 1234.9 |       | -15.1      | -1.21   | .39325  | .002    | 1        |
| CAL5         | 2500.0 |       | 2512.4 |       | 12.4       | .495    | .80057  | .002    | 1        |

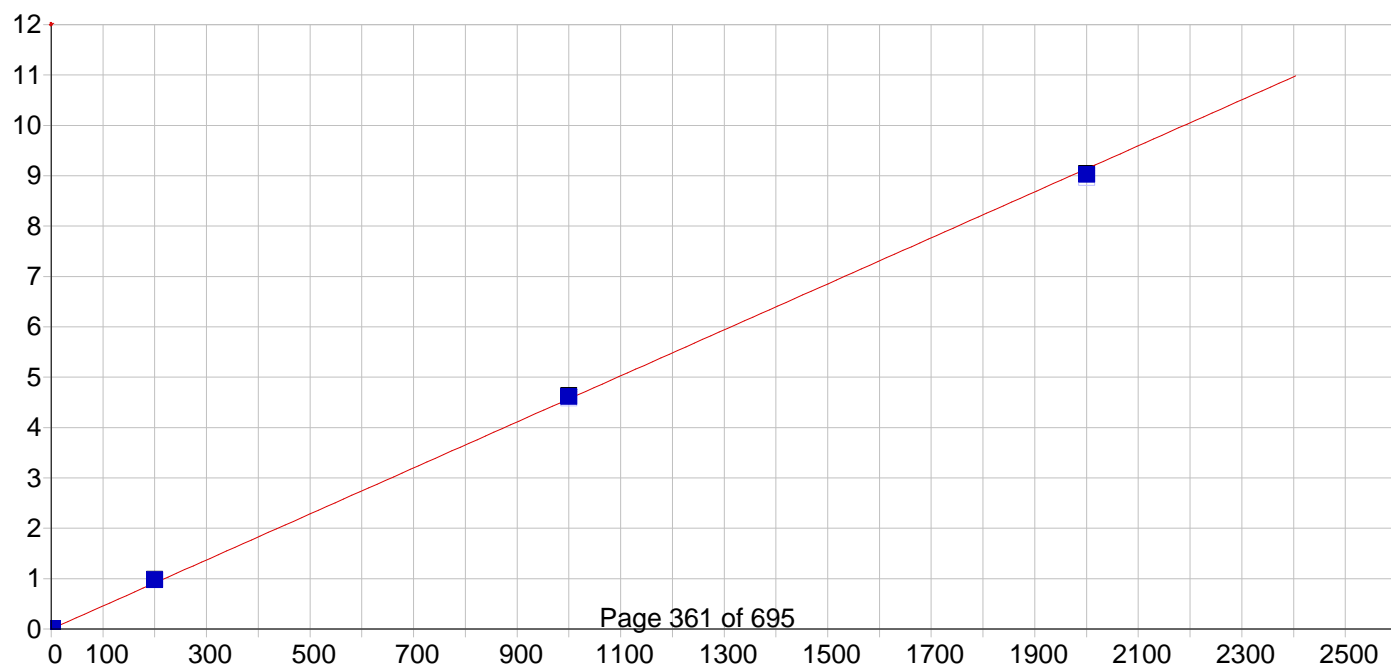


### Ba 233.527 {445}

Date of Fit: 3/4/2016 12:28:08      Type of Fit: Linear      Weighting: 1/Conc

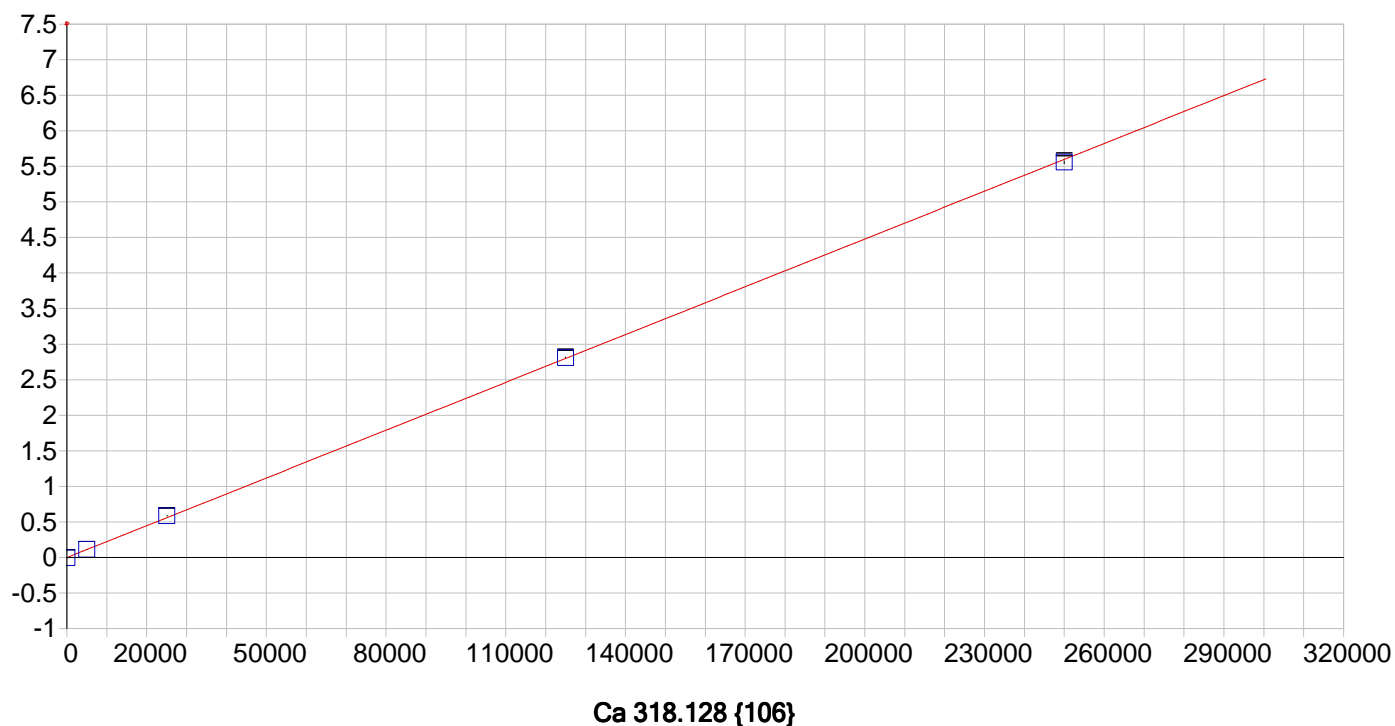
|                   |           |                    |
|-------------------|-----------|--------------------|
| A0 (Offset):      | -0.000016 | Re-Slope: 1.000000 |
| A1 (Gain):        | 0.001934  | Y-int: 0.000000    |
| A2 (Curvature):   | 0.000000  |                    |
| n (Exponent):     | 1.000000  |                    |
| Correlation:      | 0.999940  | Status: OK.        |
| Std Error of Est: | 0.002193  |                    |
| Predicted MDL:    | 0.209392  |                    |
| Predicted MQL:    | 0.697974  |                    |

| Std. Name    | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|--------------|--------------|-------------|------------|---------|---------|---------|----------|
| ICIS Cal Blk | .00000       | -.00980     | -.010      | .000    | -.00004 | .000    | 1        |
| CAL2         | 200.00       | 202.43      | 2.43       | 1.22    | .39129  | .001    | 1        |
| CAL3         | 2000.0       | 2084.5      | 84.5       | 4.23    | 4.0263  | .007    | 1        |
| CAL4         | 10000.       | 9979.0      | -21.0      | -.210   | 19.274  | .039    | 1        |
| CAL5         | 20000.       | 19934.      | -66.0      | -.330   | 38.501  | .151    | 1        |



Predicted MDL: 0.143314  
Predicted MQL: 0.477712

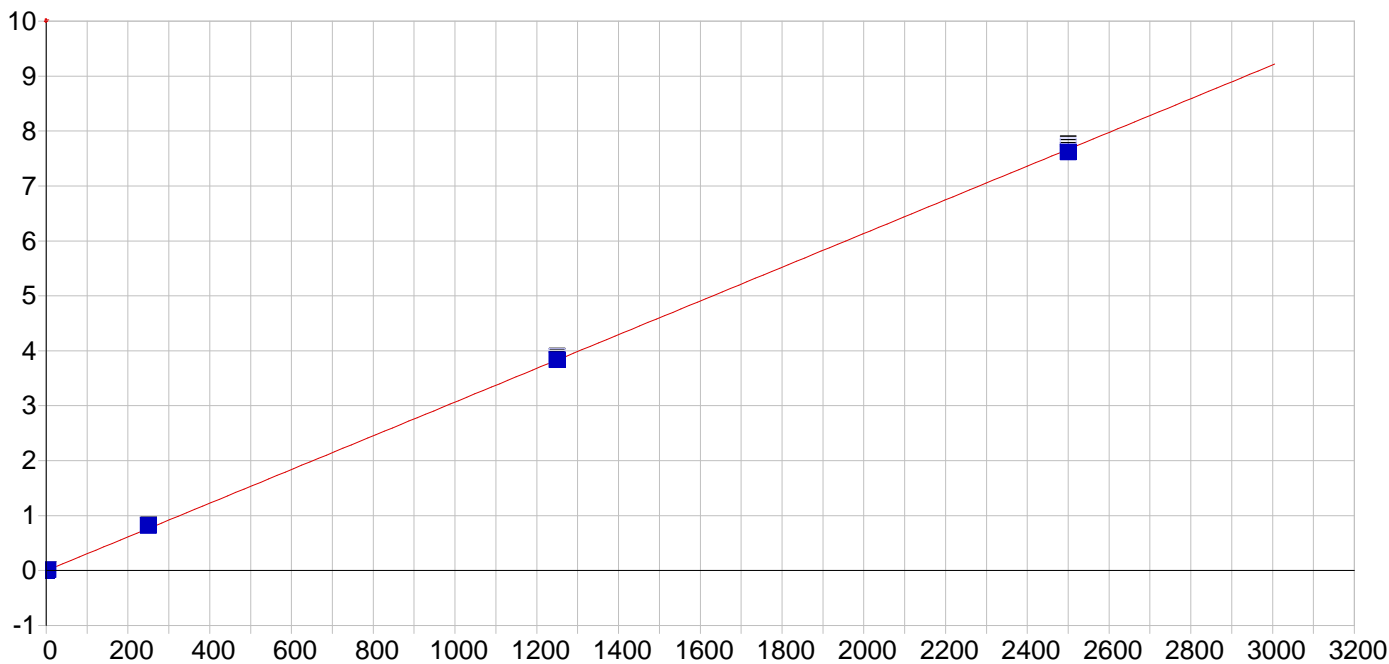
| Std. Name    | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|--------------|--------------|-------------|------------|---------|--------|---------|----------|
| ICIS Cal Blk | .00000       | -.00024     | -.000      | .000    | .00026 | .000    | 1        |
| CAL2         | 2.0000       | 2.1055      | .105       | 5.27    | .00982 | .000    | 1        |
| CAL3         | 200.00       | 213.91      | 13.9       | 6.96    | .97079 | .007    | 1        |
| CAL4         | 1000.0       | 1010.0      | 9.99       | .999    | 4.5807 | .021    | 1        |
| CAL5         | 2000.0       | 1976.0      | -24.0      | -1.20   | 8.9602 | .019    | 1        |



Date of Fit: 3/4/2016 12:28:08      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset): -0.002914      Re-Slope: 1.000000  
A1 (Gain): 0.000022      Y-int: 0.000000  
A2 (Curvature): 0.000000  
n (Exponent): 1.000000  
Correlation: 0.999903      Status: OK.  
Std Error of Est: 0.000572  
Predicted MDL: 9.574584  
Predicted MQL: 31.915279

| Std. Name    | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|--------------|--------------|-------------|------------|---------|---------|---------|----------|
| ICIS Cal Blk | .00000       | -.30494     | -.305      | .000    | -.00292 | .000    | 1        |
| CAL2         | 5000.0       | 5073.0      | 73.0       | 1.46    | .11076  | .000    | 1        |
| CAL3         | 25000.       | 26237.      | 1240.      | 4.95    | .58499  | .002    | 1        |
| CAL4         | 125000.      | 125540.     | 537.       | .430    | 2.8101  | .010    | 1        |
| CAL5         | 250000.      | 248150.     | -1850.     | -.739   | 5.5576  | .022    | 1        |

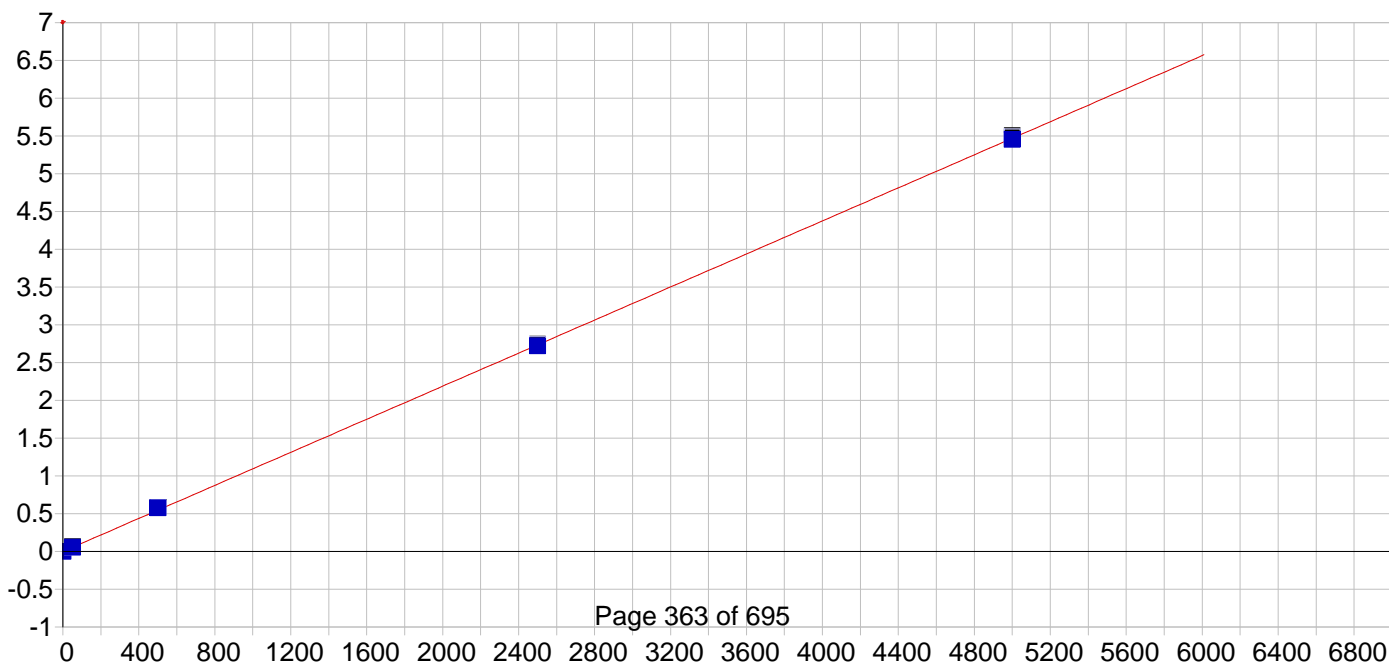


### Cd 226.502 {449}

Date of Fit: 3/4/2016 12:28:08 Type of Fit: Linear Weighting: 1/Conc

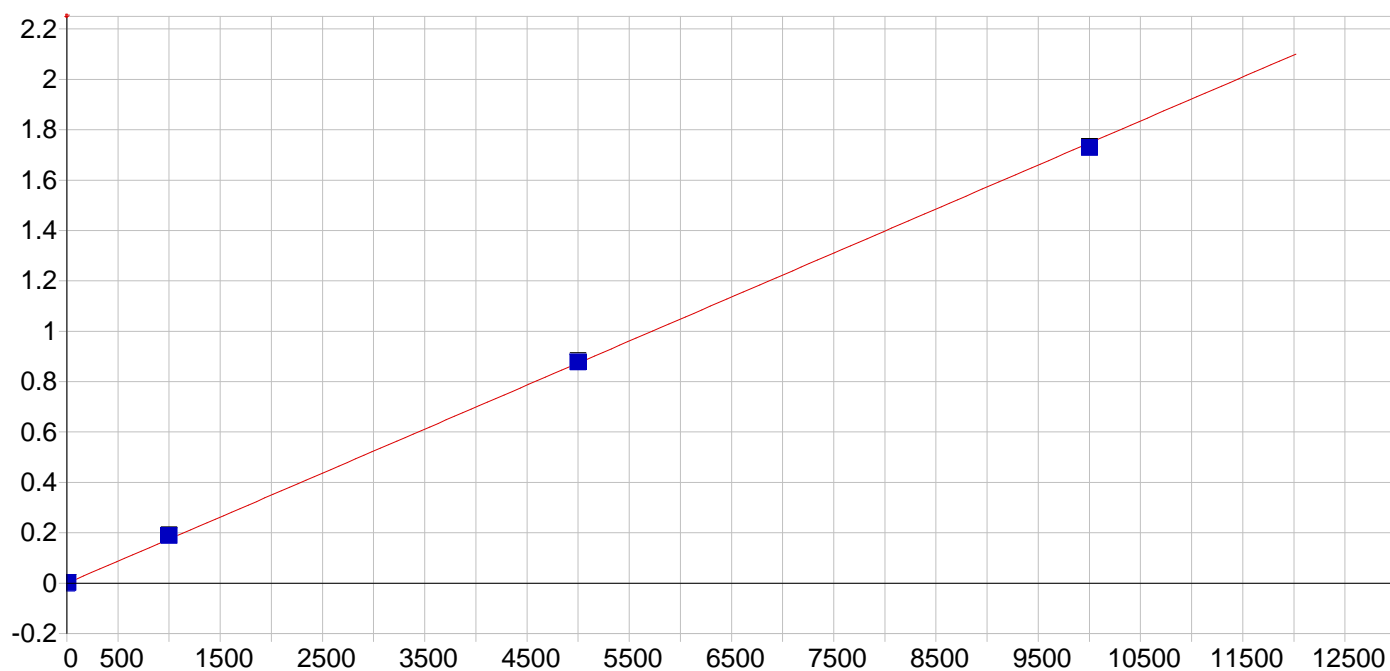
A0 (Offset): -0.001256 Re-Slope: 1.000000  
 A1 (Gain): 0.003068 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999852 Status: OK.  
 Std Error of Est: 0.000277  
 Predicted MDL: 0.158295  
 Predicted MQL: 0.527651

| Std. Name    | Stated | Conc. | Found   | Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|--------------|--------|-------|---------|-------|------------|---------|---------|---------|----------|
| ICIS Cal Blk | .00000 |       | -.00040 |       | -.000      | .000    | -.00126 | .000    | 1        |
| CAL2         | 4.0000 |       | 4.1593  |       | .159       | 3.98    | .01159  | .000    | 1        |
| CAL3         | 250.00 |       | 266.52  |       | 16.5       | 6.61    | .82777  | .000    | 1        |
| CAL4         | 1250.0 |       | 1250.7  |       | .727       | .058    | 3.8927  | .005    | 1        |
| CAL5         | 2500.0 |       | 2482.6  |       | -17.4      | -.696   | 7.7287  | .033    | 1        |



Predicted MDL: 0.368433  
Predicted MQL: 1.228110

| Std. Name    | Stated | Conc. | Found   | Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|--------------|--------|-------|---------|-------|------------|---------|---------|---------|----------|
| ICIS Cal Blk | .00000 |       | -.00425 |       | -.004      | .000    | -.00060 | .000    | 1        |
| CAL2         | 50.000 |       | 51.924  |       | 1.92       | 3.85    | .05623  | .000    | 1        |
| CAL3         | 500.00 |       | 527.54  |       | 27.5       | 5.51    | .58024  | .000    | 1        |
| CAL4         | 2500.0 |       | 2486.7  |       | -13.3      | -.531   | 2.7384  | .005    | 1        |
| CAL5         | 5000.0 |       | 4983.8  |       | -16.2      | -.324   | 5.4887  | .012    | 1        |



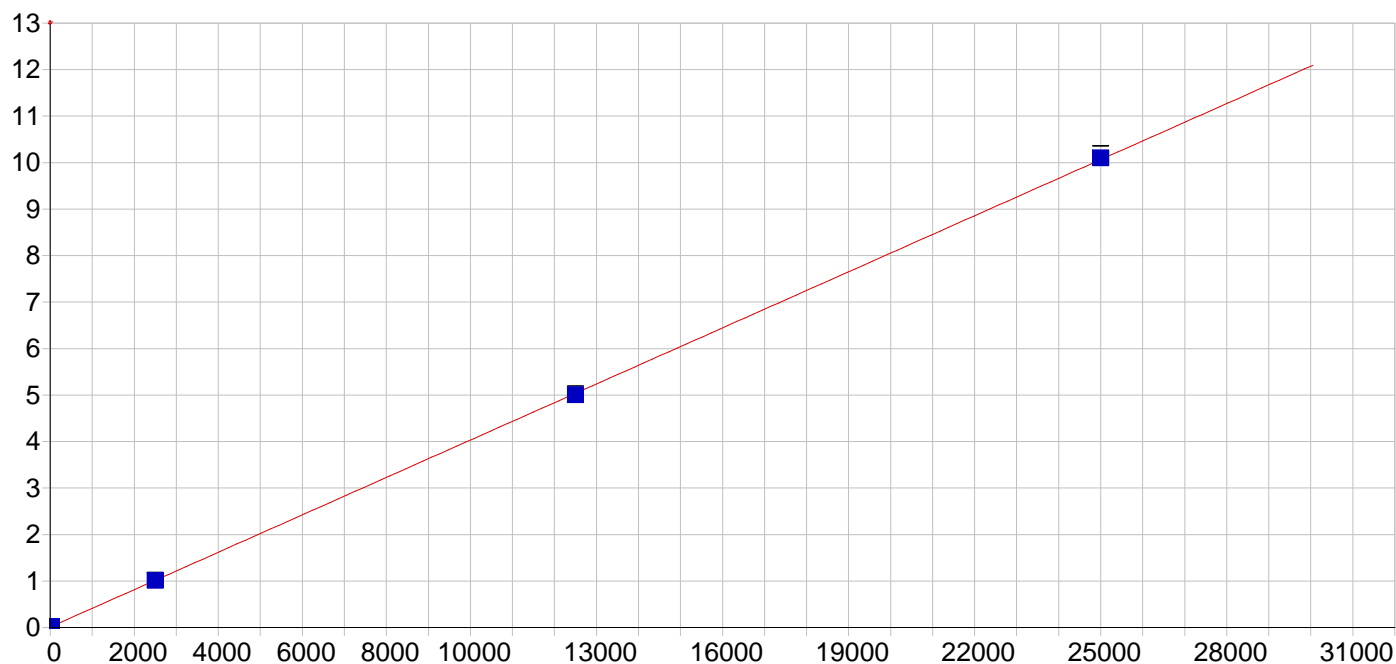
Cr 267.716 {126}

Date of Fit: 3/4/2016 12:28:08      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset): -0.000056      Re-Slope: 1.000000  
A1 (Gain): 0.000175      Y-int: 0.000000  
A2 (Curvature): 0.000000  
n (Exponent): 1.000000  
Correlation: 0.999754      Status: OK.  
Std Error of Est: 0.000063  
Predicted MDL: 0.713002  
Predicted MQL: 2.376674

| Std. Name    | Stated | Conc. | Found   | Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|--------------|--------|-------|---------|-------|------------|---------|---------|---------|----------|
| ICIS Cal Blk | .00000 |       | -.00083 |       | -.001      | .000    | -.00006 | .000    | 1        |
| CAL2         | 10.000 |       | 10.069  |       | .069       | .687    | .00171  | .000    | 1        |
| CAL3         | 1000.0 |       | 1081.3  |       | 81.3       | 8.13    | .18890  | .001    | 1        |
| CAL4         | 5000.0 |       | 5026.1  |       | 26.1       | .523    | .87831  | .003    | 1        |
| CAL5         | 10000. |       | 9892.5  |       | -107.      | -1.07   | 1.7288  | .003    | 1        |



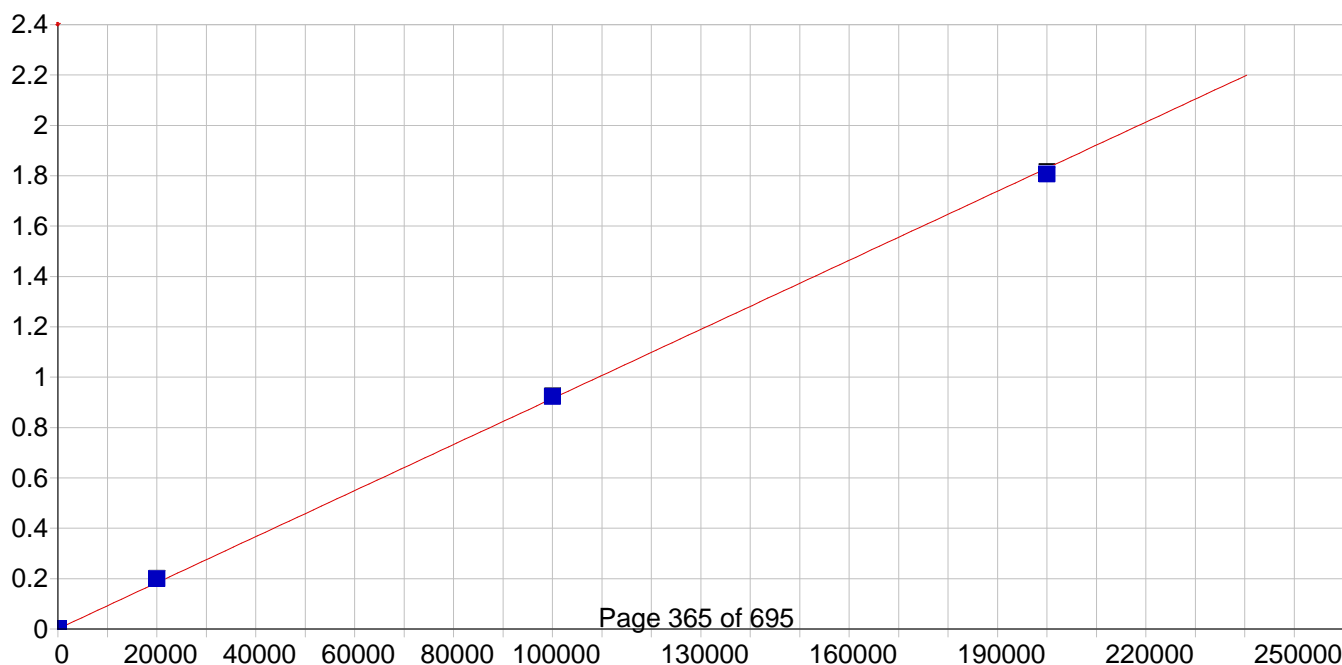


### Cu 324.754 {104}

Date of Fit: 3/4/2016 12:28:08 Type of Fit: Linear Weighting: 1/Conc

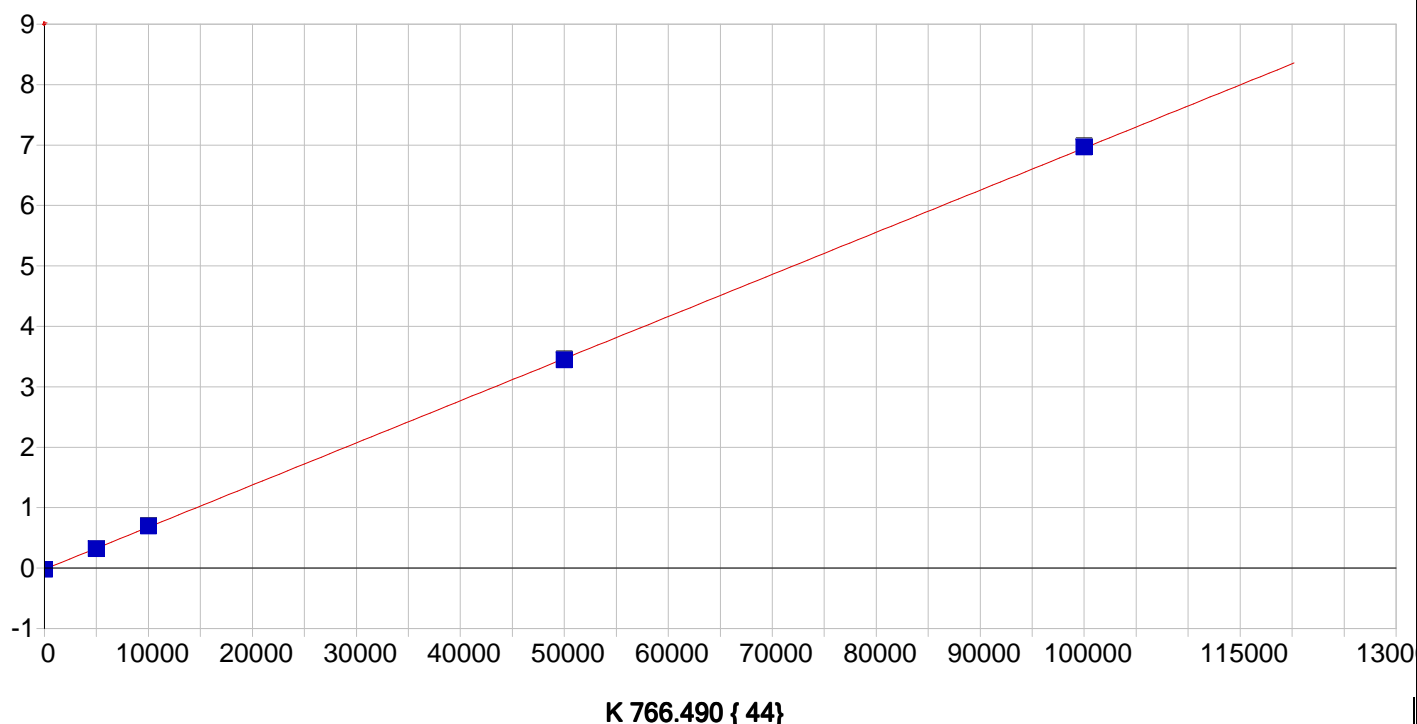
A0 (Offset): 0.010161 Re-Slope: 1.000000  
 A1 (Gain): 0.000402 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999988 Status: OK.  
 Std Error of Est: 0.000081  
 Predicted MDL: 0.420752  
 Predicted MQL: 1.402508

| Std. Name    | Stated | Conc. | Found  | Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|--------------|--------|-------|--------|-------|------------|---------|--------|---------|----------|
| ICIS Cal Blk | .00000 |       | .00083 |       | .001       | .000    | .01016 | .000    | 1        |
| CAL2         | 25.000 |       | 24.368 |       | -.632      | -2.53   | .01994 | .000    | 1        |
| CAL3         | 2500.0 |       | 2487.3 |       | -12.7      | -.506   | 1.0099 | .001    | 1        |
| CAL4         | 12500. |       | 12419. |       | -81.2      | -.650   | 5.0016 | .018    | 1        |
| CAL5         | 25000. |       | 25095. |       | 94.5       | .378    | 10.096 | .091    | 1        |



Predicted MDL: 13.509840  
 Predicted MQL: 45.032801

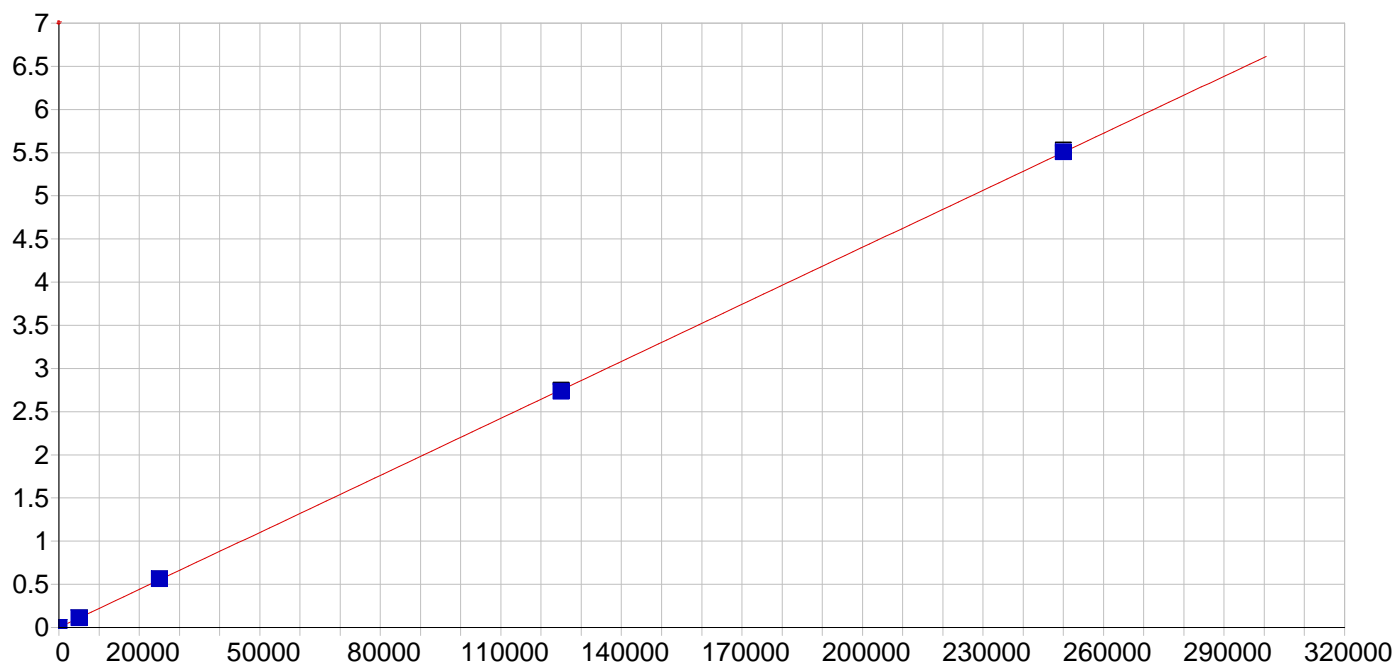
| Std. Name    | Stated  | Conc. | Found   | Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|--------------|---------|-------|---------|-------|------------|---------|--------|---------|----------|
| ICIS Cal Blk | .00000  |       | -.02223 |       | -.022      | .000    | .00074 | .000    | 1        |
| CAL2         | 150.00  |       | 159.93  |       | 9.93       | 6.62    | .00223 | .000    | 1        |
| CAL3         | 20000.  |       | 21726.  |       | 1730.      | 8.63    | .19974 | .001    | 1        |
| CAL4         | 100000. |       | 100890. |       | 886.       | .886    | .92491 | .002    | 1        |
| CAL5         | 200000. |       | 197380. |       | -2620.     | -1.31   | 1.8089 | .006    | 1        |



Date of Fit: 3/4/2016 12:28:08      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset): -0.019112      Re-Slope: 1.000000  
 A1 (Gain): 0.000070      Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999962      Status: OK.  
 Std Error of Est: 0.000707  
 Predicted MDL: 43.783410  
 Predicted MQL: 145.944700

| Std. Name    | Stated  | Conc. | Found   | Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|--------------|---------|-------|---------|-------|------------|---------|---------|---------|----------|
| ICIS Cal Blk | .00000  |       | .05078  |       | .051       | .000    | -.01911 | .004    | 1        |
| CAL2         | 5000.0  |       | 4852.0  |       | -148.      | -2.96   | .31904  | .005    | 1        |
| CAL3         | 10000.  |       | 10235.  |       | 235.       | 2.35    | .69444  | .003    | 1        |
| CAL4         | 50000.  |       | 49686.  |       | -314.      | -.628   | 3.4450  | .009    | 1        |
| CAL5         | 100000. |       | 100230. |       | 228.       | .228    | 6.9688  | .013    | 1        |

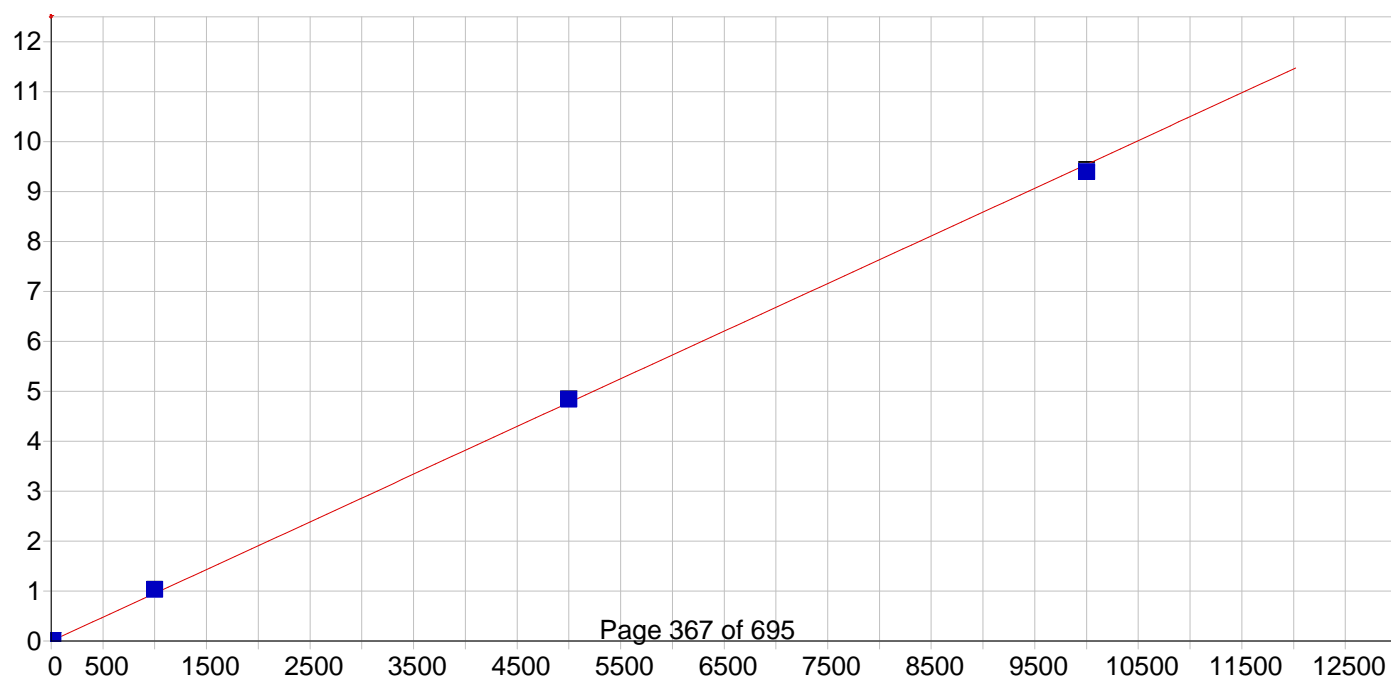


### Mg 279.079 {121}

Date of Fit: 3/4/2016 12:28:08 Type of Fit: Linear Weighting: 1/Conc

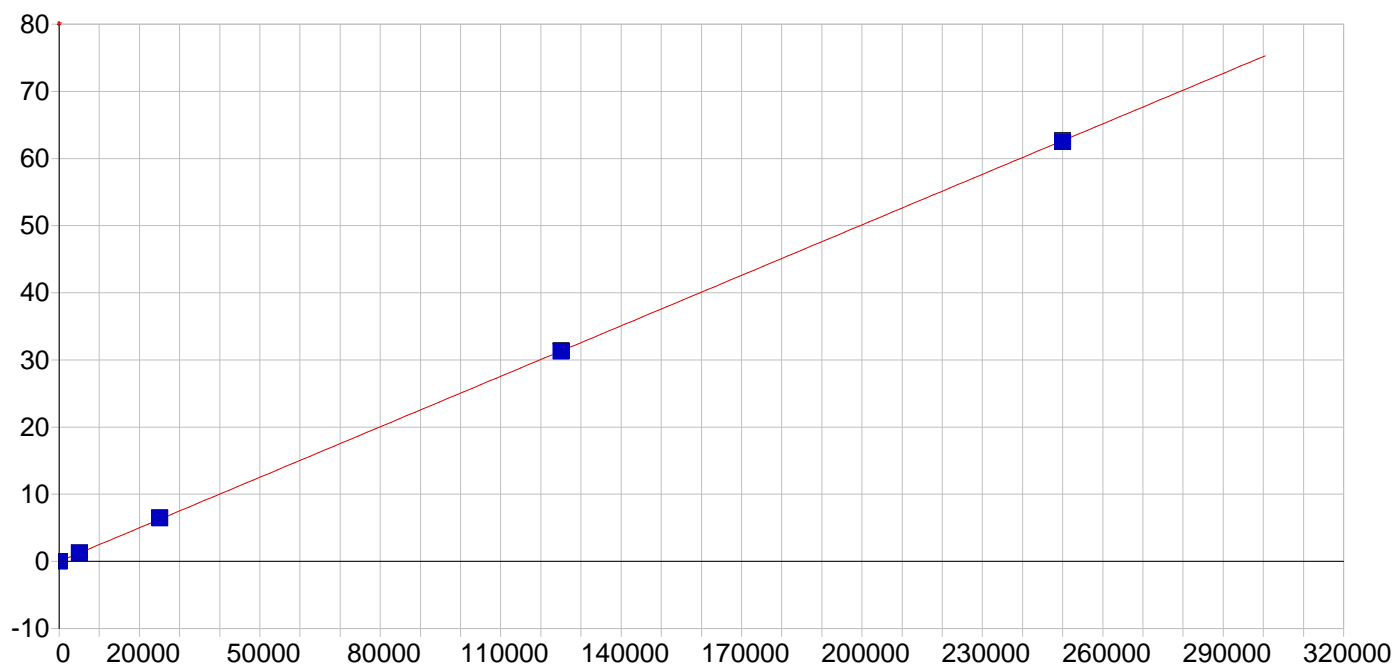
A0 (Offset): 0.000211 Re-Slope: 1.000000  
 A1 (Gain): 0.000022 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999979 Status: OK.  
 Std Error of Est: 0.000261  
 Predicted MDL: 6.195153  
 Predicted MQL: 20.650509

| Std. Name    | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|--------------|--------------|-------------|------------|---------|--------|---------|----------|
| ICIS Cal Blk | .00000       | -.09664     | -.097      | .000    | .00021 | .000    | 1        |
| CAL2         | 5000.0       | 5013.8      | 13.8       | .276    | .11059 | .000    | 1        |
| CAL3         | 25000.       | 25547.      | 547.       | 2.19    | .56227 | .003    | 1        |
| CAL4         | 125000.      | 124230.     | -766.      | -.613   | 2.7334 | .012    | 1        |
| CAL5         | 250000.      | 250210.     | 205.       | .082    | 5.5049 | .020    | 1        |



Predicted MDL: 0.110876  
 Predicted MQL: 0.369587

| Std. Name    | Stated | Conc. | Found   | Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|--------------|--------|-------|---------|-------|------------|---------|--------|---------|----------|
| ICIS Cal Blk | .00000 |       | -.00209 |       | -.002      | .000    | .00032 | .000    | 1        |
| CAL2         | 15.000 |       | 15.906  |       | .906       | 6.04    | .01551 | .000    | 1        |
| CAL3         | 1000.0 |       | 1080.1  |       | 80.1       | 8.01    | 1.0316 | .002    | 1        |
| CAL4         | 5000.0 |       | 5072.7  |       | 72.7       | 1.45    | 4.8442 | .007    | 1        |
| CAL5         | 10000. |       | 9846.3  |       | -154.      | -1.54   | 9.4025 | .030    | 1        |

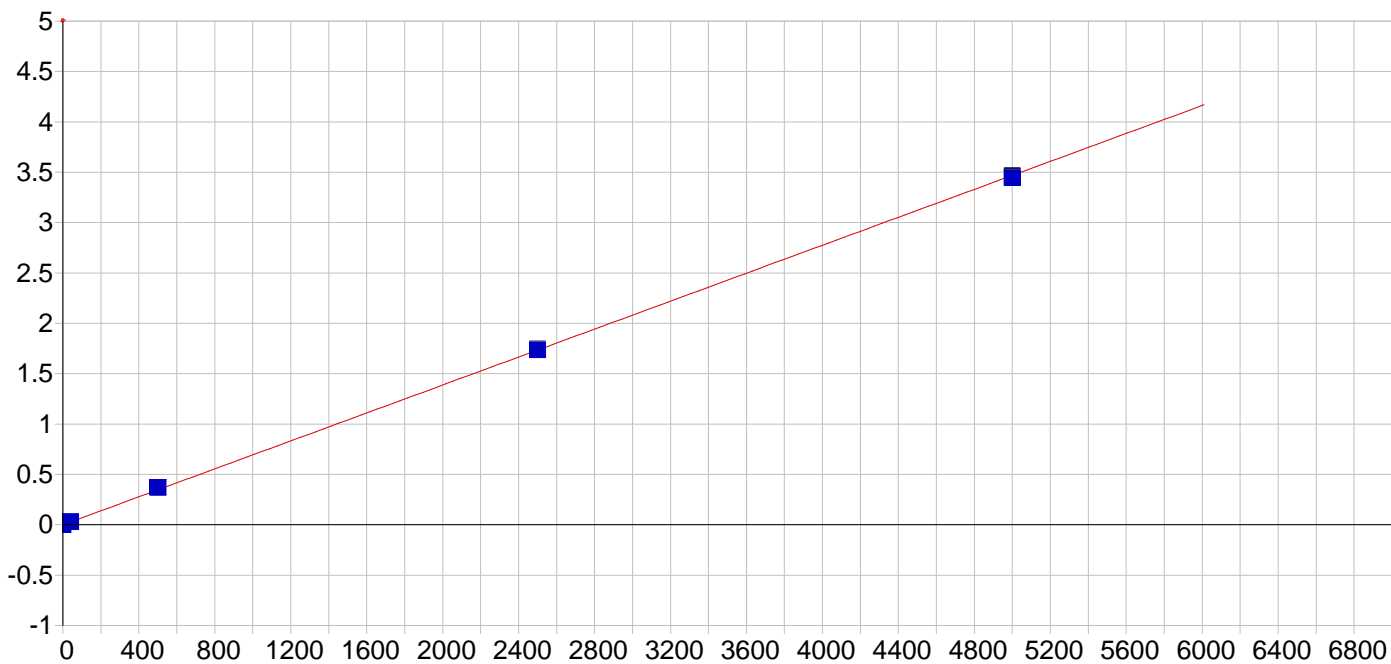


Na 589.592 { 57}

Date of Fit: 3/4/2016 12:28:08      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset): -0.005580      Re-Slope: 1.000000  
 A1 (Gain): 0.000251      Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999971      Status: OK.  
 Std Error of Est: 0.003491  
 Predicted MDL: 10.987237  
 Predicted MQL: 36.624122

| Std. Name    | Stated  | Conc. | Found   | Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|--------------|---------|-------|---------|-------|------------|---------|---------|---------|----------|
| ICIS Cal Blk | .00000  |       | -.07878 |       | -.079      | .000    | -.00560 | .002    | 1        |
| CAL2         | 5000.0  |       | 4949.8  |       | -50.2      | -1.00   | 1.2349  | .007    | 1        |
| CAL3         | 25000.  |       | 25734.  |       | 734.       | 2.94    | 6.4457  | .026    | 1        |
| CAL4         | 125000. |       | 124790. |       | -208.      | -.166   | 31.279  | .070    | 1        |
| CAL5         | 250000. |       | 249520. |       | -476.      | -.190   | 62.549  | .093    | 1        |

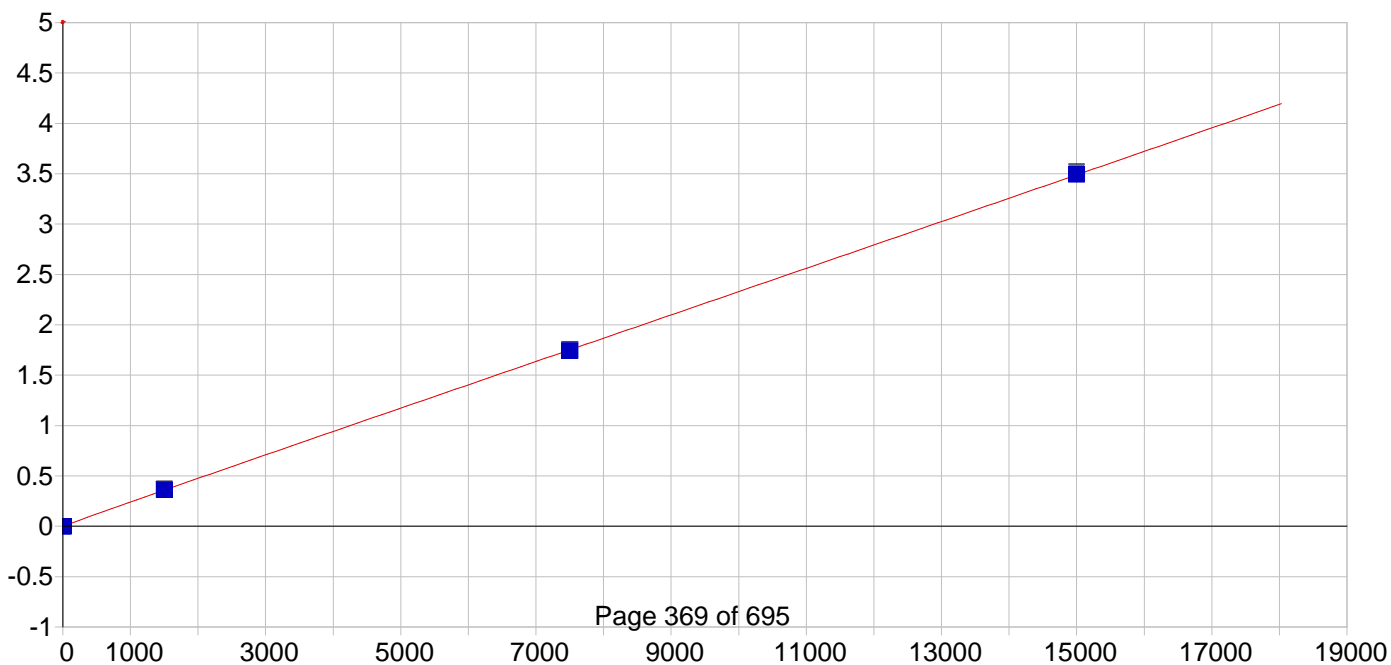


### Ni 231.604 {446}

Date of Fit: 3/4/2016 12:28:08 Type of Fit: Linear Weighting: 1/Conc

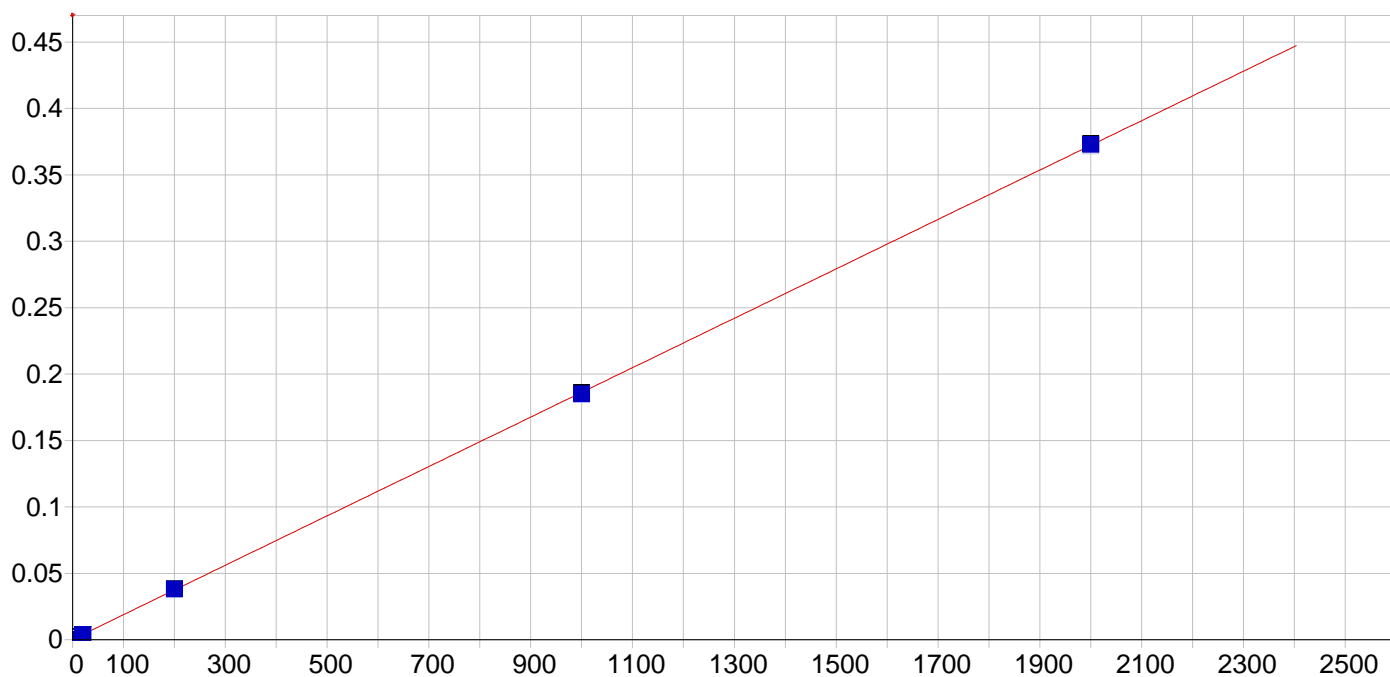
A0 (Offset): -0.000131 Re-Slope: 1.000000  
 A1 (Gain): 0.000694 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999859 Status: OK.  
 Std Error of Est: 0.000270  
 Predicted MDL: 0.674904  
 Predicted MQL: 2.249679

| Std. Name    | Stated | Conc. | Found   | Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|--------------|--------|-------|---------|-------|------------|---------|---------|---------|----------|
| ICIS Cal Blk | .00000 |       | -.00350 |       | -.003      | .000    | -.00013 | .001    | 1        |
| CAL2         | 40.000 |       | 41.222  |       | 1.22       | 3.05    | .02847  | .000    | 1        |
| CAL3         | 500.00 |       | 531.55  |       | 31.5       | 6.31    | .36910  | .000    | 1        |
| CAL4         | 2500.0 |       | 2501.8  |       | 1.82       | .073    | 1.7378  | .004    | 1        |
| CAL5         | 5000.0 |       | 4965.4  |       | -34.6      | -.692   | 3.4493  | .012    | 1        |



Predicted MDL: 1.588996  
 Predicted MQL: 5.296653

| Std. Name    | Stated | Conc. | Found  | Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|--------------|--------|-------|--------|-------|------------|---------|---------|---------|----------|
| ICIS Cal Blk | .00000 |       | .00166 |       | .002       | .000    | -.00036 | .000    | 1        |
| CAL2         | 10.000 |       | 9.2839 |       | -.716      | -7.16   | .00210  | .000    | 1        |
| CAL3         | 1500.0 |       | 1523.2 |       | 23.2       | 1.55    | .36524  | .000    | 1        |
| CAL4         | 7500.0 |       | 7462.0 |       | -38.0      | -.506   | 1.7488  | .005    | 1        |
| CAL5         | 15000. |       | 15017. |       | 16.8       | .112    | 3.5052  | .011    | 1        |
| CAL1         | 5.0000 |       | 3.3234 |       | -1.68      | -33.5   | .00053  | .000    | 1        |

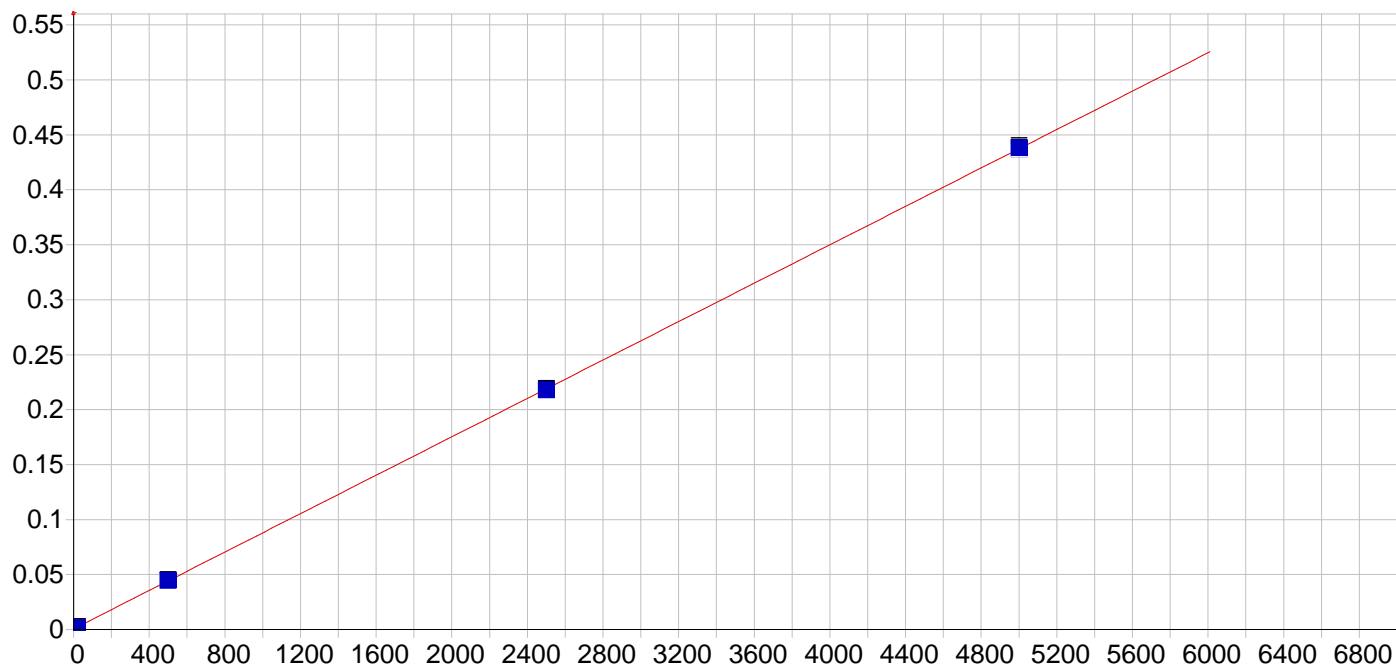


**Sb 206.833 {463}**

Date of Fit: 3/4/2016 12:28:08      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset): 0.000267      Re-Slope: 1.000000  
 A1 (Gain): 0.000186      Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999971      Status: OK.  
 Std Error of Est: 0.000010  
 Predicted MDL: 1.862932  
 Predicted MQL: 6.209773

| Std. Name    | Stated | Conc. | Found  | Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|--------------|--------|-------|--------|-------|------------|---------|--------|---------|----------|
| ICIS Cal Blk | .00000 |       | .00085 |       | .001       | .000    | .00027 | .000    | 1        |
| CAL2         | 20.000 |       | 19.166 |       | -.834      | -4.17   | .00371 | .000    | 1        |
| CAL3         | 200.00 |       | 203.83 |       | 3.83       | 1.92    | .03805 | .000    | 1        |
| CAL4         | 1000.0 |       | 993.72 |       | -6.28      | -.628   | .18447 | .001    | 1        |
| CAL5         | 2000.0 |       | 2003.8 |       | 3.84       | .192    | .37172 | .001    | 1        |
| CAL1         | 10.000 |       | 9.4186 |       | -.581      | -5.81   | .00202 | .000    | 1        |

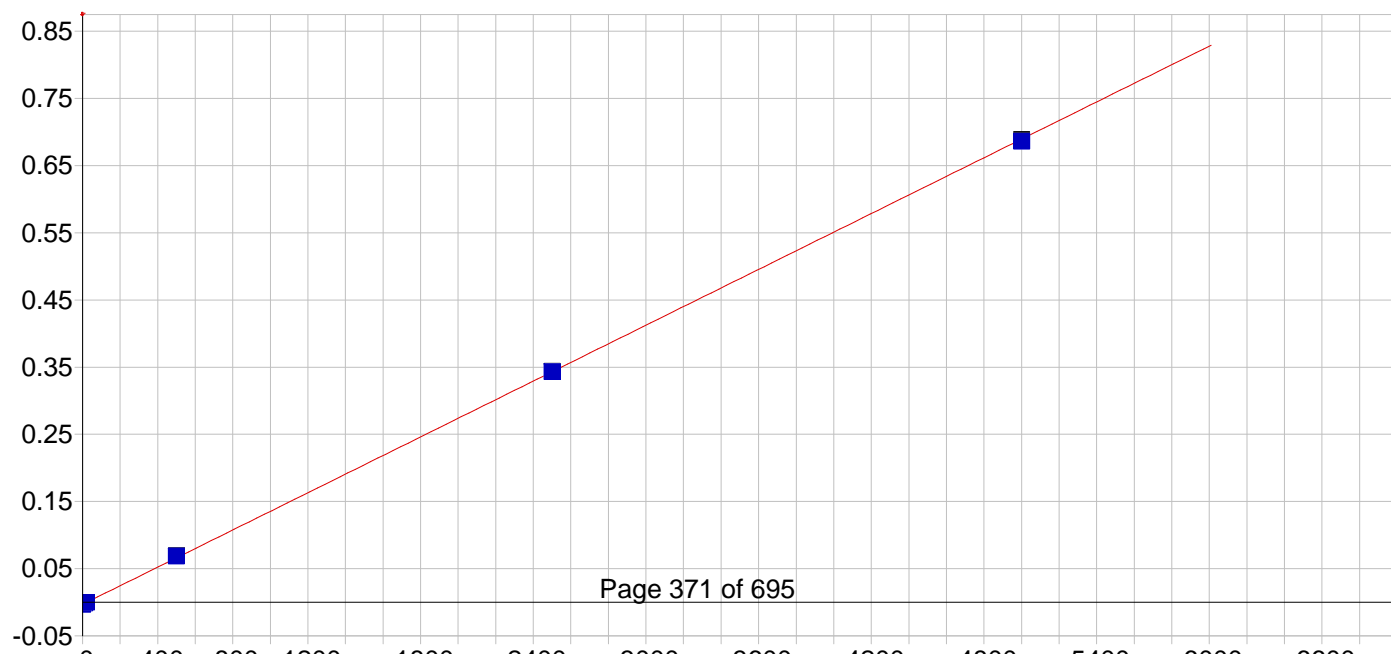


### Se 196.090 (472)

Date of Fit: 3/4/2016 12:28:08 Type of Fit: Linear Weighting: 1/Conc

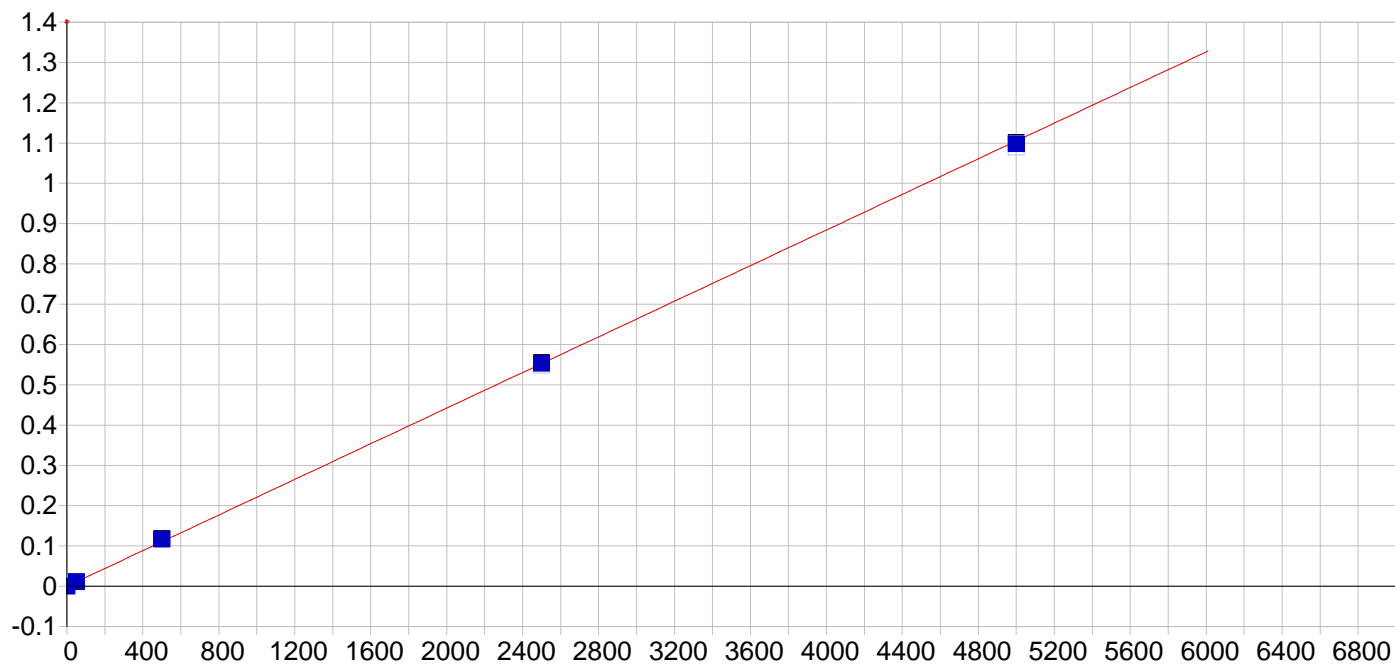
A0 (Offset): 0.000568 Re-Slope: 1.000000  
 A1 (Gain): 0.000087 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999952 Status: OK.  
 Std Error of Est: 0.000007  
 Predicted MDL: 3.197127  
 Predicted MQL: 10.657089

| Std. Name    | Stated | Conc. | Found  | Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|--------------|--------|-------|--------|-------|------------|---------|--------|---------|----------|
| ICIS Cal Blk | .00000 |       | .00199 |       | .002       | .000    | .00057 | .000    | 1        |
| CAL2         | 20.000 |       | 18.056 |       | -1.94      | -9.72   | .00215 | .000    | 1        |
| CAL3         | 500.00 |       | 504.60 |       | 4.60       | .920    | .04447 | .000    | 1        |
| CAL4         | 2500.0 |       | 2489.6 |       | -10.4      | -.417   | .21718 | .001    | 1        |
| CAL5         | 5000.0 |       | 5009.3 |       | 9.33       | .187    | .43644 | .002    | 1        |
| CAL1         | 5.0000 |       | 3.4616 |       | -1.54      | -30.8   | .00087 | .000    | 1        |



Std Error of Est: 0.000023  
 Predicted MDL: 2.389838  
 Predicted MQL: 7.966127

| Std. Name    | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|--------------|--------------|-------------|------------|---------|---------|---------|----------|
| ICIS Cal Blk | .00000       | -.00407     | -.004      | .000    | -.00314 | .000    | 1        |
| CAL2         | 20.000       | 21.802      | 1.80       | 9.01    | -.00012 | .000    | 1        |
| CAL3         | 500.00       | 518.60      | 18.6       | 3.72    | .06871  | .000    | 1        |
| CAL4         | 2500.0       | 2499.8      | -.237      | -.009   | .34317  | .000    | 1        |
| CAL5         | 5000.0       | 4977.0      | -23.0      | -.460   | .68636  | .002    | 1        |
| CAL1         | 10.000       | 12.844      | 2.84       | 28.4    | -.00136 | .000    | 1        |



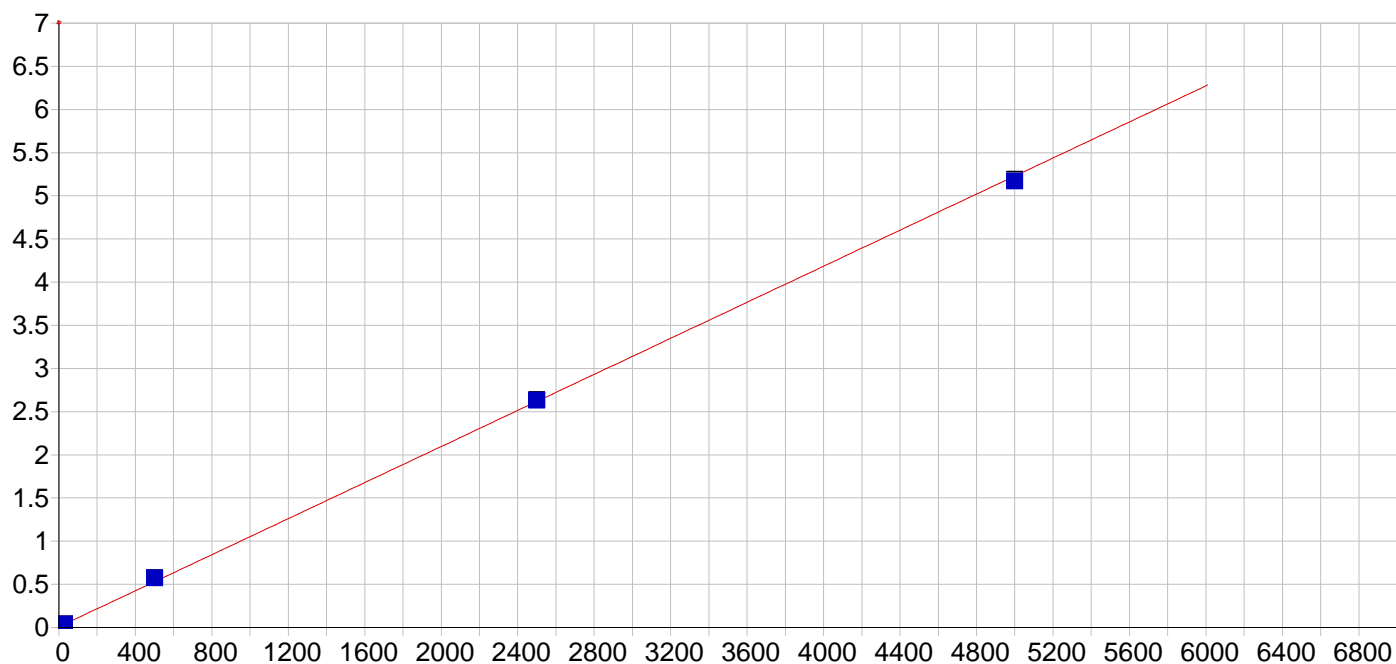
V 292.402 {115}

Date of Fit: 3/4/2016 12:28:08      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset): -0.000003      Re-Slope: 1.000000  
 A1 (Gain): 0.000221      Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999882      Status: OK.  
 Std Error of Est: 0.000087  
 Predicted MDL: 0.644069  
 Predicted MQL: 2.146897

| Std. Name    | Stated Conc. | Found Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|--------------|--------------|-------------|------------|---------|---------|---------|----------|
| ICIS Cal Blk | .00000       | -.00365     | -.004      | .000    | -.00000 | .000    | 1        |
| CAL2         | 50.000       | 51.059      | 1.06       | 2.12    | .01125  | .000    | 1        |
| CAL3         | 500.00       | 528.70      | 28.7       | 5.74    | .11599  | .001    | 1        |
| CAL4         | 2500.0       | 2501.9      | 1.89       | .076    | .54864  | .001    | 1        |
| CAL5         | 5000.0       | 4968.3      | -31.7      | -.633   | 1.0895  | .003    | 1        |



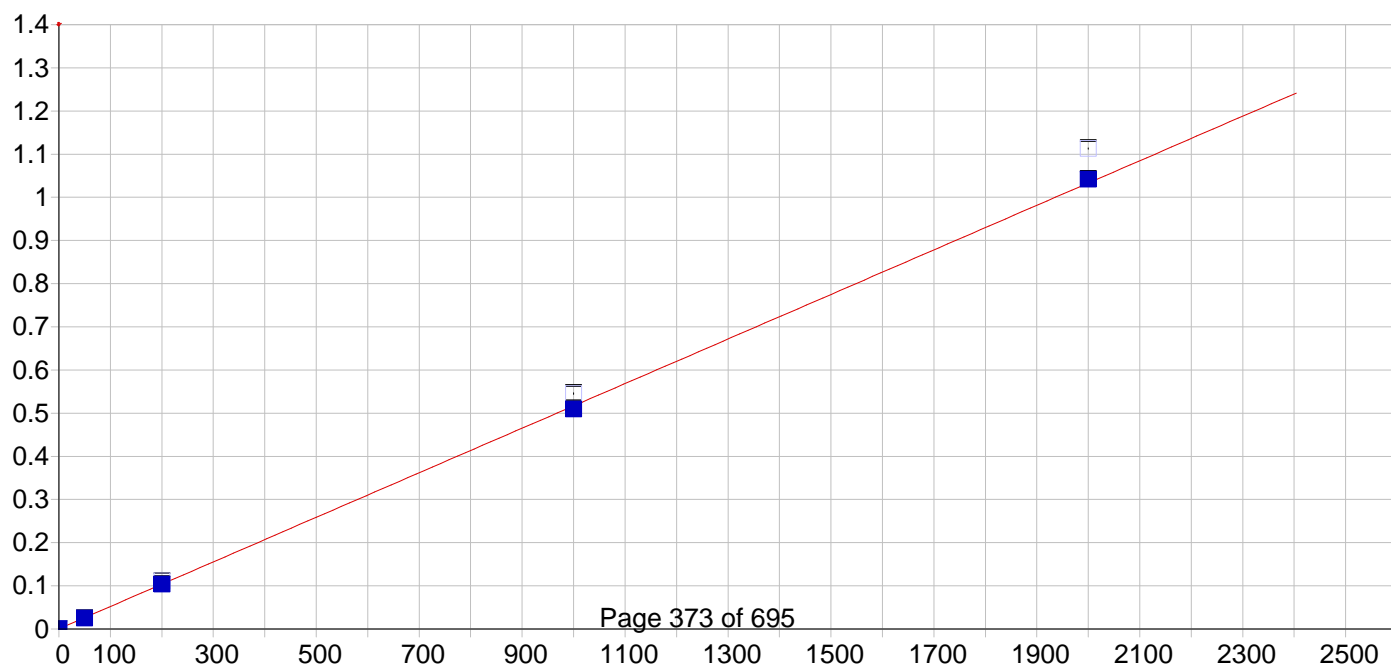


### Zn 206.200 {463}

Date of Fit: 3/4/2016 12:28:08 Type of Fit: Linear Weighting: 1/Conc

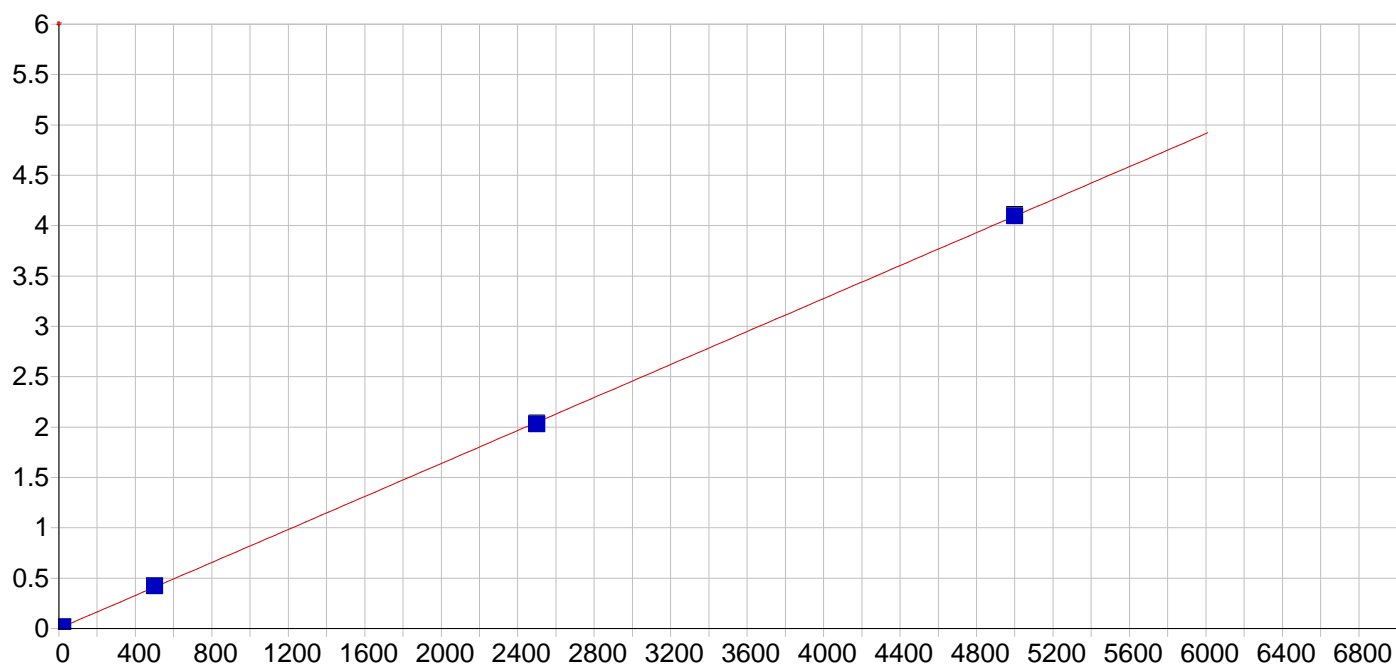
A0 (Offset): 0.007770 Re-Slope: 1.000000  
 A1 (Gain): 0.001044 Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999738 Status: OK.  
 Std Error of Est: 0.000479  
 Predicted MDL: 0.267846  
 Predicted MQL: 0.892821

| Std. Name    | Stated | Conc. | Found   | Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|--------------|--------|-------|---------|-------|------------|---------|--------|---------|----------|
| ICIS Cal Blk | .00000 |       | -.00426 |       | -.004      | .000    | .00777 | .000    | 1        |
| CAL2         | 30.000 |       | 31.973  |       | 1.97       | 6.58    | .04115 | .000    | 1        |
| CAL3         | 500.00 |       | 541.14  |       | 41.1       | 8.23    | .57244 | .000    | 1        |
| CAL4         | 2500.0 |       | 2512.9  |       | 12.9       | .517    | 2.6298 | .003    | 1        |
| CAL5         | 5000.0 |       | 4944.0  |       | -56.0      | -1.12   | 5.1663 | .019    | 1        |



Predicted MDL: 0.639137  
 Predicted MQL: 2.130458

| Std. Name    | Stated | Conc. | Found  | Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|--------------|--------|-------|--------|-------|------------|---------|--------|---------|----------|
| ICIS Cal Blk | .00000 |       | .00317 |       | .003       | .000    | .00056 | .000    | 1        |
| CAL2         | 50.000 |       | 47.103 |       | -2.90      | -5.79   | .02516 | .000    | 1        |
| CAL3         | 200.00 |       | 200.04 |       | .036       | .018    | .11097 | .000    | 1        |
| CAL4         | 1000.0 |       | 986.04 |       | -14.0      | -1.40   | .54530 | .002    | 1        |
| CAL5         | 2000.0 |       | 2016.7 |       | 16.7       | .833    | 1.1131 | .001    | 1        |

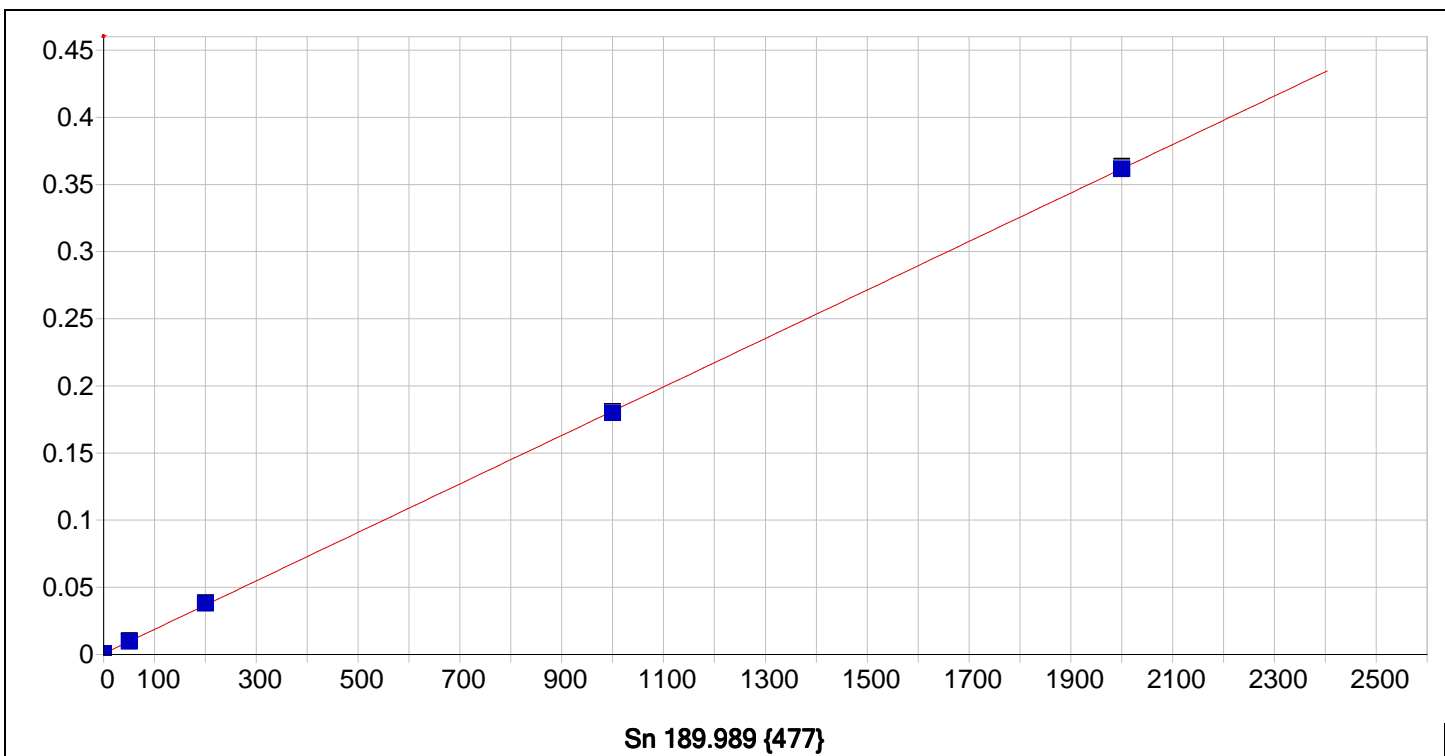


Mo 202.030 {467}

Date of Fit: 3/4/2016 12:28:08      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset): 0.001056      Re-Slope: 1.000000  
 A1 (Gain): 0.000819      Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999954      Status: OK.  
 Std Error of Est: 0.000128  
 Predicted MDL: 0.352502  
 Predicted MQL: 1.175007

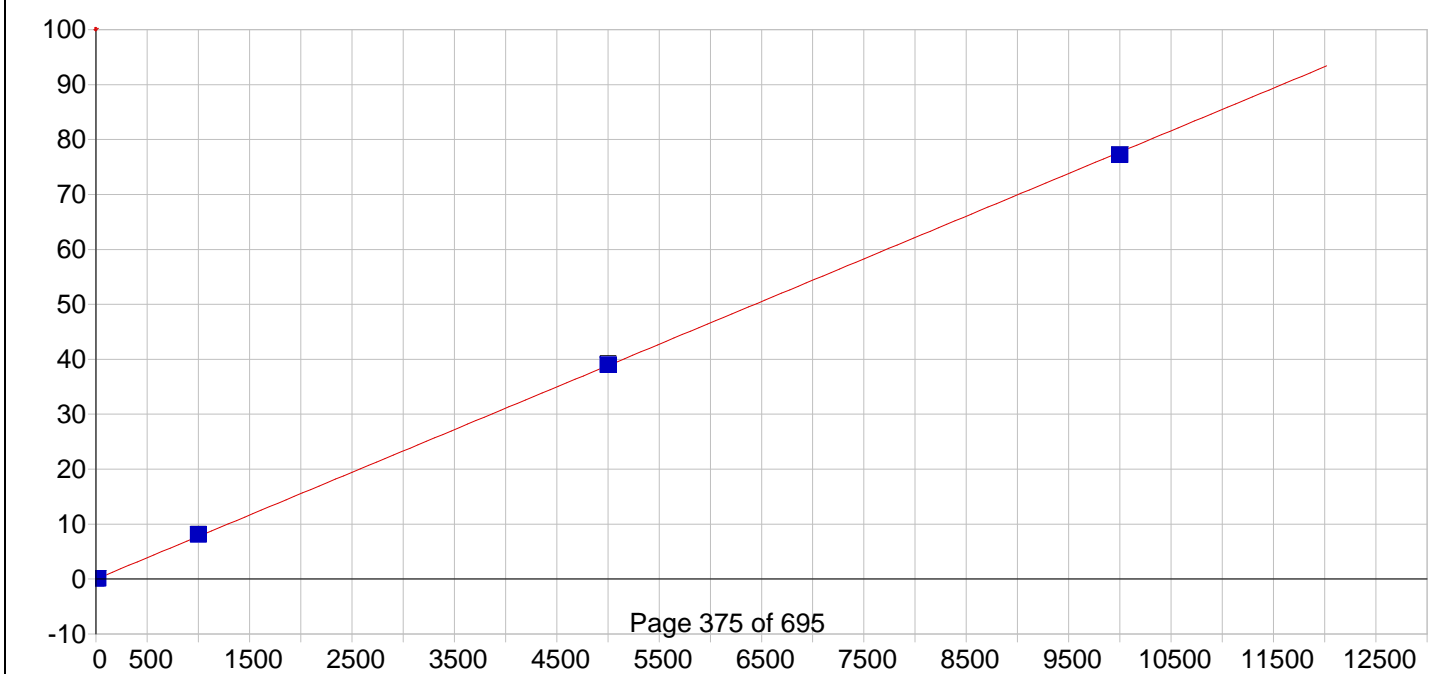
| Std. Name    | Stated | Conc. | Found  | Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|--------------|--------|-------|--------|-------|------------|---------|--------|---------|----------|
| ICIS Cal Blk | .00000 |       | .00003 |       | .000       | .000    | .00106 | .000    | 1        |
| CAL2         | 20.000 |       | 19.443 |       | -.557      | -2.78   | .01698 | .000    | 1        |
| CAL3         | 500.00 |       | 516.81 |       | 16.8       | 3.36    | .42405 | .001    | 1        |
| CAL4         | 2500.0 |       | 2480.7 |       | -19.3      | -.771   | 2.0314 | .006    | 1        |
| CAL5         | 5000.0 |       | 5003.0 |       | 3.03       | .061    | 4.0959 | .011    | 1        |



Date of Fit: 3/4/2016 12:28:08      Type of Fit: Linear      Weighting: 1/Conc

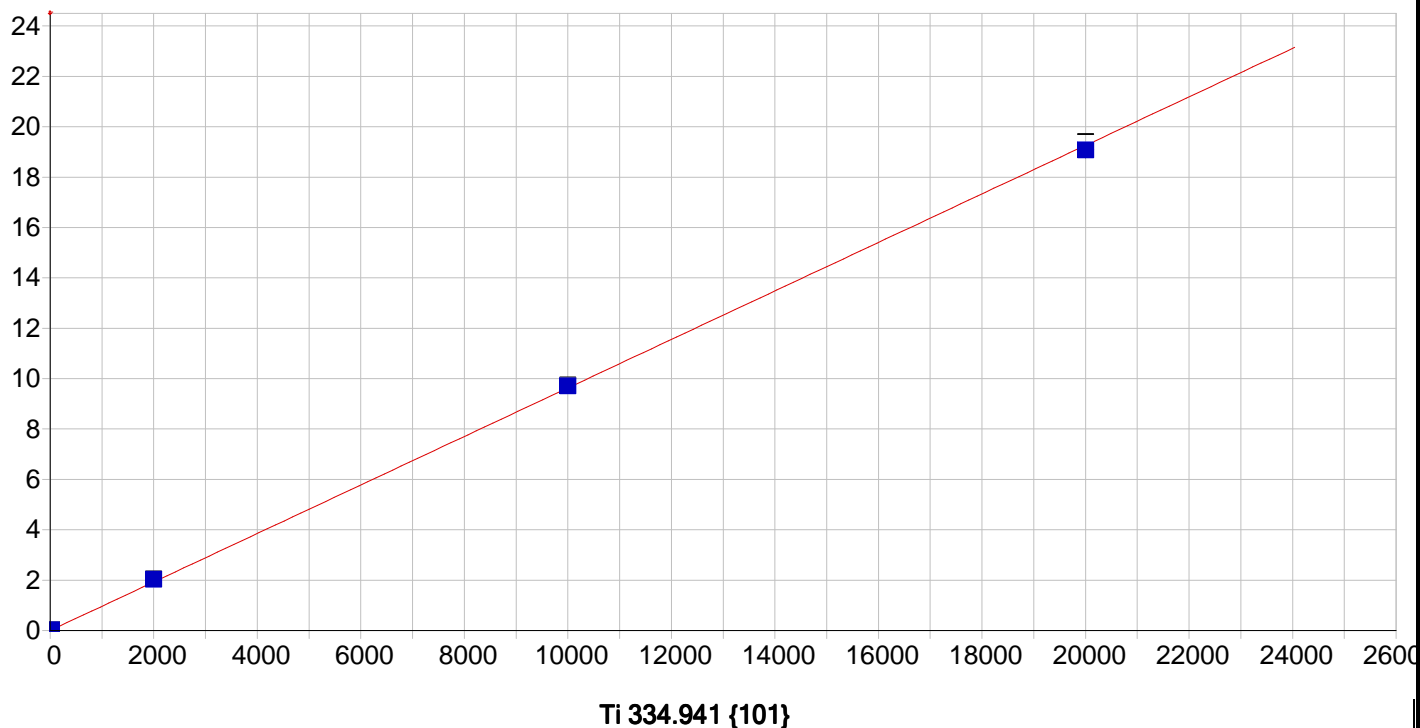
A0 (Offset): 0.000688      Re-Slope: 1.000000  
A1 (Gain): 0.000180      Y-int: 0.000000  
A2 (Curvature): 0.000000  
n (Exponent): 1.000000  
Correlation: 0.999946      Status: OK.  
Std Error of Est: 0.000031  
Predicted MDL: 1.187109  
Predicted MQL: 3.957028

| Std. Name    | Stated | Conc. | Found   | Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|--------------|--------|-------|---------|-------|------------|---------|--------|---------|----------|
| ICIS Cal Blk | .00000 |       | -.00200 |       | -.002      | .000    | .00069 | .000    | 1        |
| CAL2         | 50.000 |       | 50.471  |       | .471       | .942    | .00980 | .000    | 1        |
| CAL3         | 200.00 |       | 207.64  |       | 7.64       | 3.82    | .03821 | .000    | 1        |
| CAL4         | 1000.0 |       | 992.72  |       | -7.28      | -.728   | .18011 | .001    | 1        |
| CAL5         | 2000.0 |       | 1999.2  |       | -.833      | -.042   | .36200 | .001    | 1        |



Predicted MDL: 0.161771  
 Predicted MQL: 0.539235

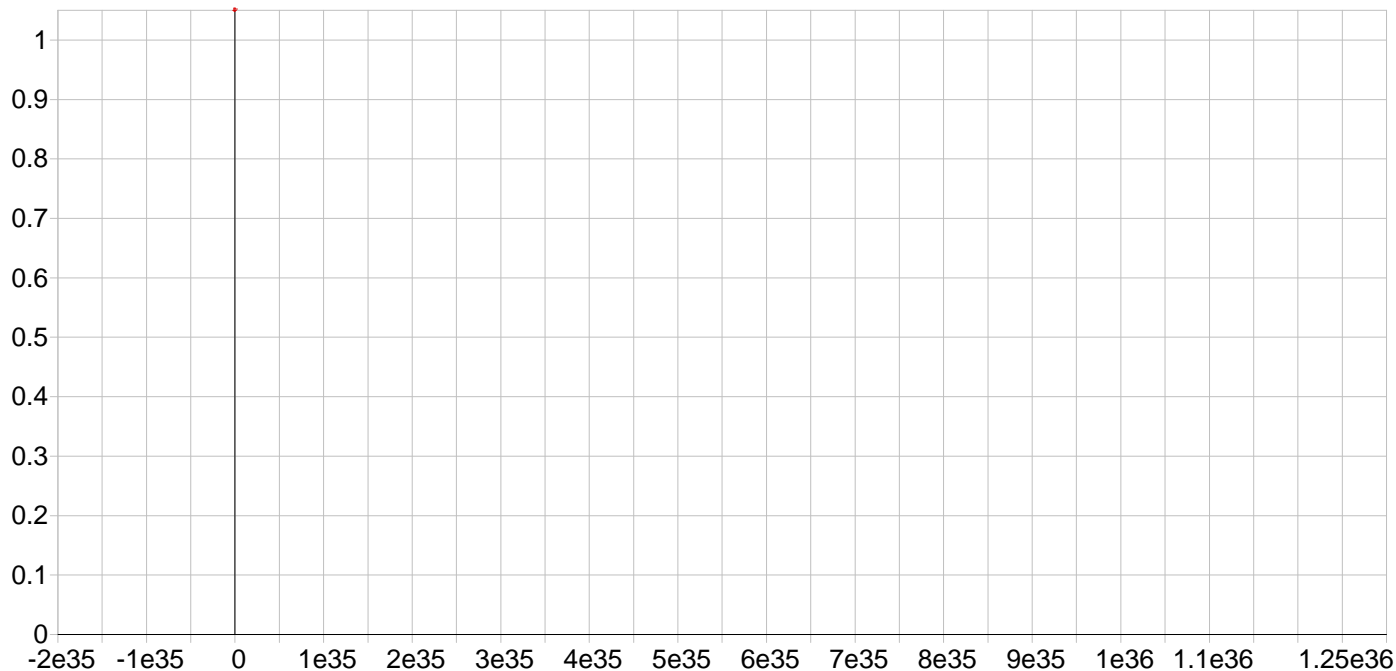
| Std. Name    | Stated | Conc. | Found   | Conc. | Difference | % Diff. | (S)IR   | Std Dev | Emphasis |
|--------------|--------|-------|---------|-------|------------|---------|---------|---------|----------|
| ICIS Cal Blk | .00000 |       | -.00121 |       | -.001      | .000    | -.00361 | .000    | 1        |
| CAL2         | 20.000 |       | 20.417  |       | .417       | 2.09    | .15528  | .001    | 1        |
| CAL3         | 1000.0 |       | 1041.7  |       | 41.7       | 4.17    | 8.0952  | .042    | 1        |
| CAL4         | 5000.0 |       | 5021.9  |       | 21.9       | .437    | 39.040  | .073    | 1        |
| CAL5         | 10000. |       | 9936.0  |       | -64.0      | -.640   | 77.248  | .056    | 1        |



Date of Fit: 3/4/2016 12:28:08      Type of Fit: Linear      Weighting: 1/Conc

A0 (Offset): 0.000704      Re-Slope: 1.000000  
 A1 (Gain): 0.000963      Y-int: 0.000000  
 A2 (Curvature): 0.000000  
 n (Exponent): 1.000000  
 Correlation: 0.999873      Status: OK.  
 Std Error of Est: 0.000502  
 Predicted MDL: 0.245401  
 Predicted MQL: 0.818002

| Std. Name    | Stated | Conc. | Found   | Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|--------------|--------|-------|---------|-------|------------|---------|--------|---------|----------|
| ICIS Cal Blk | .00000 |       | -.00184 |       | -.002      | .000    | .00070 | .000    | 1        |
| CAL2         | 20.000 |       | 20.800  |       | .800       | 4.00    | .02074 | .000    | 1        |
| CAL3         | 2000.0 |       | 2107.3  |       | 107.       | 5.36    | 2.0300 | .004    | 1        |
| CAL4         | 10000. |       | 10079.  |       | 79.1       | .791    | 9.7069 | .025    | 1        |
| CAL5         | 20000. |       | 19813.  |       | -187.      | -.936   | 19.081 | .317    | 1        |

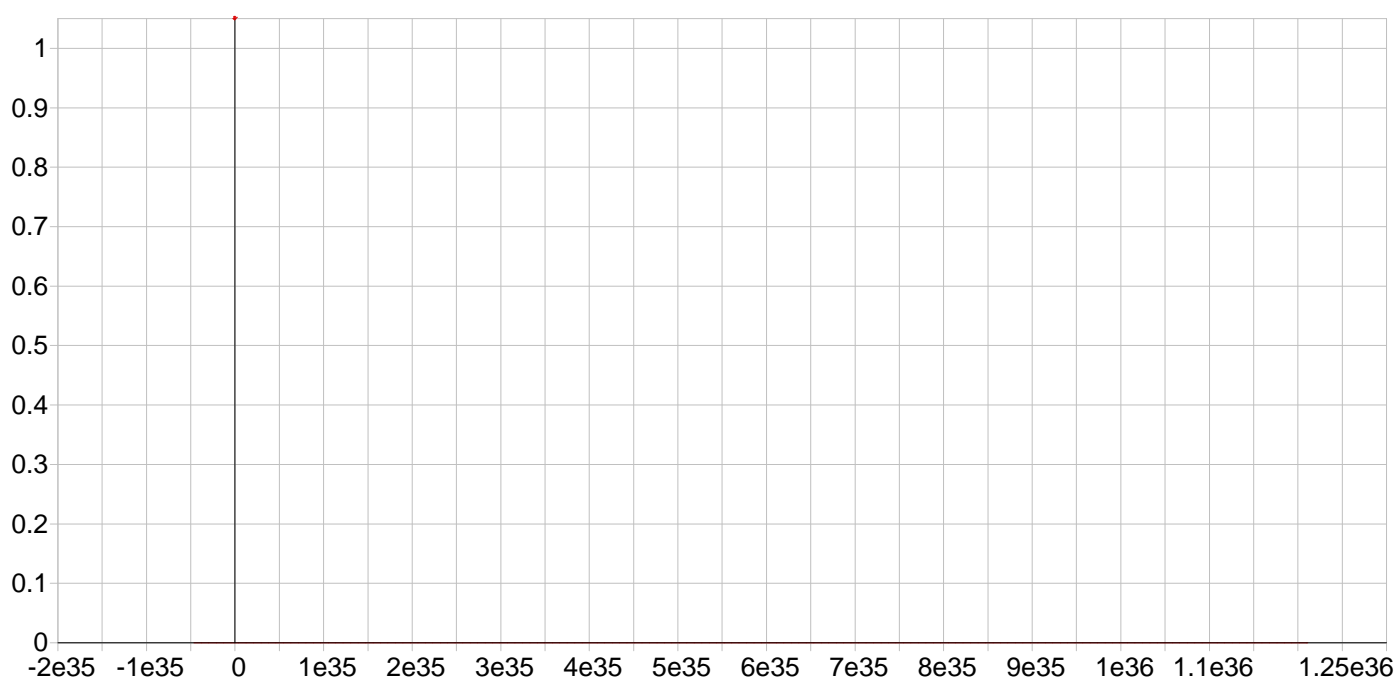


Y 224.306 {450}\*

Date of Fit: 3/4/2016 12:28:08      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 |
|-----------|--------|-------|-------|-------|------------|---------|-------|---------|----------|
|-----------|--------|-------|-------|-------|------------|---------|-------|---------|----------|

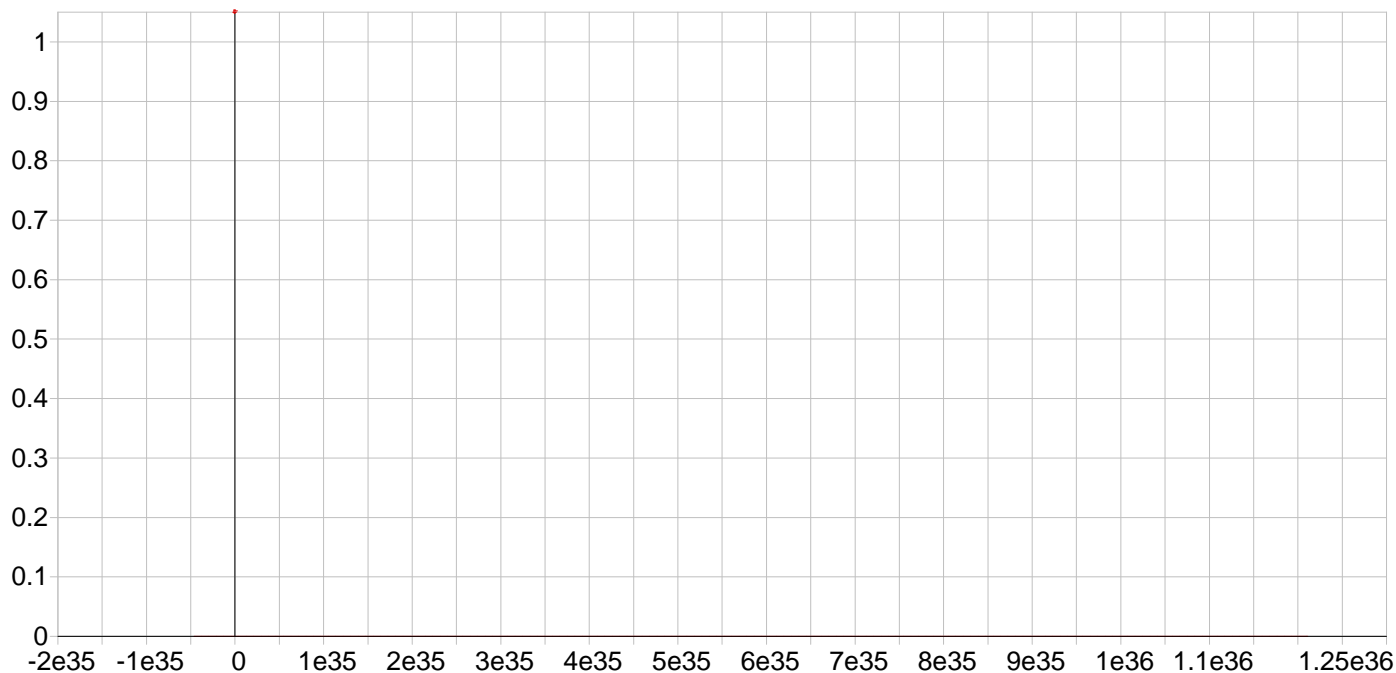


Y 360.073 { 94}\*

Date of Fit: 3/4/2016 12:28:08      Type of Fit: Linear      Weighting: 1/Conc

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



Y 371.030 { 91}\*

Date of Fit: 3/4/2016 12:28:08

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

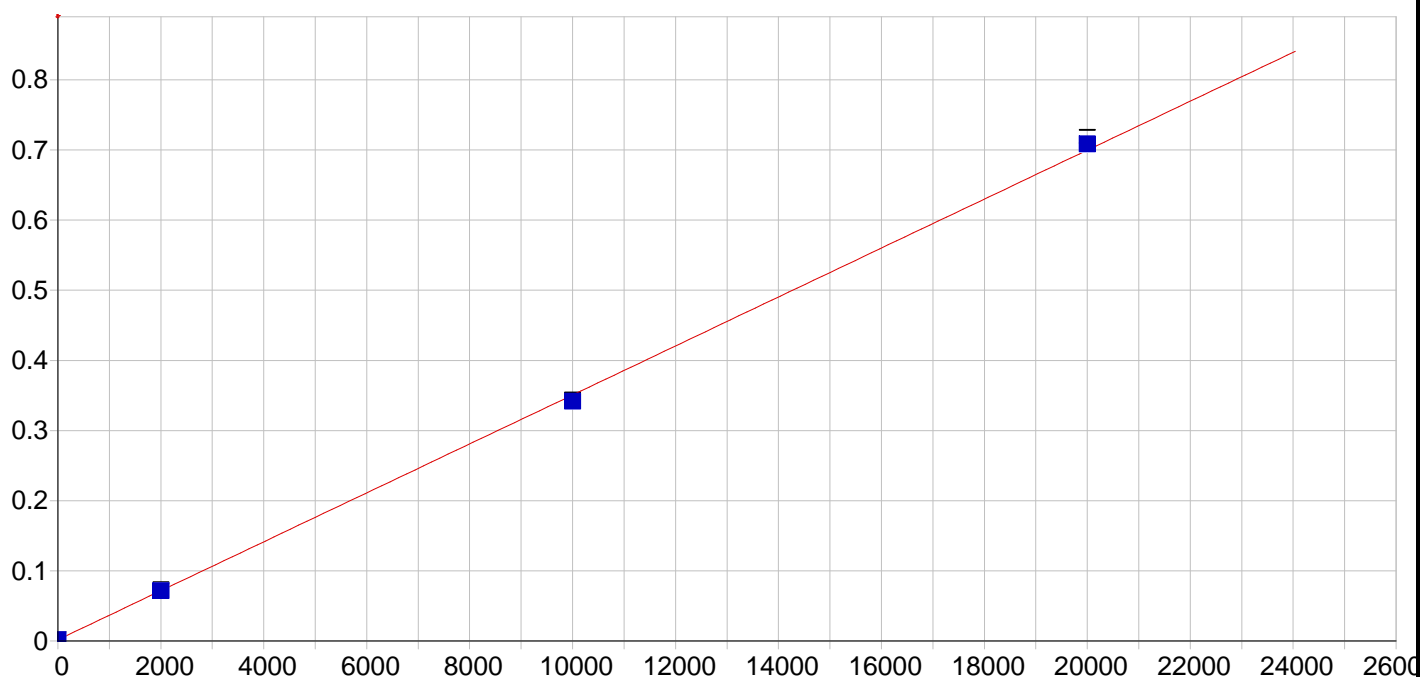
Zero Gain

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 |
|-----------|--------|-------|-------|-------|------------|---------|-------|---------|----------|
|-----------|--------|-------|-------|-------|------------|---------|-------|---------|----------|



Si 288.158 {117}

Date of Fit: 3/4/2016 12:28:08

Type of Fit: Linear

Weighting: 1/Conc

A0 (Offset): 0.001853

Re-Slope: 1.000000

| Std. Name    | Stated | Conc. | Found  | Conc. | Difference | % Diff. | (S)IR  | Std Dev | Emphasis |
|--------------|--------|-------|--------|-------|------------|---------|--------|---------|----------|
| ICIS Cal Blk | .00000 |       | .02601 |       | .026       | .000    | .00185 | .000    | 1        |
| CAL5         | 20000. |       | 20256. |       | 256.       | 1.28    | .70762 | .009    | 1        |
| CAL3         | 2000.0 |       | 1999.5 |       | -.508      | -.025   | .07152 | .001    | 1        |
| CAL4         | 10000. |       | 9744.5 |       | -256.      | -2.56   | .34135 | .001    | 1        |

Sample Name: ICIS Cal Blk      Acquired: 3/4/2016 11:07:38      Type: Cal  
Method: sw02152016(v10)      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    | <b>-.0003</b> | <b>-.0012</b> | <b>-.0004</b> | <b>-.0000</b> | <b>.0003</b>  | <b>-.0029</b> |
| Stddev | .0005         | .0003         | .0002         | .0001         | .0002         | .0002         |
| %RSD   | 135.5         | 22.60         | 43.77         | 319.5         | 84.04         | 7.654         |

|    |               |               |               |               |              |               |
|----|---------------|---------------|---------------|---------------|--------------|---------------|
| #1 | <b>-.0002</b> | <b>-.0011</b> | <b>-.0003</b> | <b>-.0001</b> | <b>.0003</b> | <b>-.0031</b> |
| #2 | <b>-.0009</b> | <b>-.0010</b> | <b>-.0006</b> | <b>-.0000</b> | <b>.0000</b> | <b>-.0030</b> |
| #3 | <b>.0000</b>  | <b>-.0015</b> | <b>-.0003</b> | <b>.0001</b>  | <b>.0004</b> | <b>-.0027</b> |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 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    | <b>-.0013</b> | <b>-.0006</b> | <b>-.0001</b> | <b>.0102</b>  | <b>.0007</b>  | <b>-.0191</b> |
| Stddev | .0003         | .0001         | .0001         | .0002         | .0000         | .0041         |
| %RSD   | 24.31         | 13.56         | 124.6         | 2.256         | 6.019         | 21.68         |

|    |               |               |               |              |              |               |
|----|---------------|---------------|---------------|--------------|--------------|---------------|
| #1 | <b>-.0015</b> | <b>-.0006</b> | <b>-.0001</b> | <b>.0103</b> | <b>.0007</b> | <b>-.0193</b> |
| #2 | <b>-.0009</b> | <b>-.0007</b> | <b>-.0001</b> | <b>.0099</b> | <b>.0008</b> | <b>-.0232</b> |
| #3 | <b>-.0013</b> | <b>-.0005</b> | <b>.0000</b>  | <b>.0103</b> | <b>.0007</b> | <b>-.0149</b> |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 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    | <b>.0002</b>  | <b>.0003</b>  | <b>-.0056</b> | <b>-.0001</b> | <b>-.0004</b> | <b>.0003</b>  |
| Stddev | .0000         | .0000         | .0015         | .0005         | .0004         | .0001         |
| %RSD   | 20.04         | 13.13         | 27.35         | 400.0         | 104.3         | 22.50         |

|    |              |              |               |               |               |              |
|----|--------------|--------------|---------------|---------------|---------------|--------------|
| #1 | <b>.0002</b> | <b>.0004</b> | <b>-.0062</b> | <b>.0005</b>  | <b>-.0003</b> | <b>.0003</b> |
| #2 | <b>.0002</b> | <b>.0003</b> | <b>-.0039</b> | <b>-.0004</b> | <b>.0000</b>  | <b>.0002</b> |
| #3 | <b>.0002</b> | <b>.0003</b> | <b>-.0067</b> | <b>-.0005</b> | <b>-.0007</b> | <b>.0003</b> |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| 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    | <b>.0006</b>  | <b>-.0031</b> | <b>-.0000</b> | <b>.0078</b>  | <b>.0006</b>  | <b>.0011</b>  |
| Stddev | .0003         | .0002         | .0001         | .0002         | .0004         | .0002         |
| %RSD   | 47.81         | 7.640         | 1237.         | 2.786         | 77.17         | 17.42         |

|    |              |               |               |              |              |              |
|----|--------------|---------------|---------------|--------------|--------------|--------------|
| #1 | <b>.0008</b> | <b>-.0029</b> | <b>-.0000</b> | <b>.0079</b> | <b>.0007</b> | <b>.0010</b> |
| #2 | <b>.0003</b> | <b>-.0034</b> | <b>.0001</b>  | <b>.0079</b> | <b>.0009</b> | <b>.0009</b> |
| #3 | <b>.0007</b> | <b>-.0032</b> | <b>-.0000</b> | <b>.0075</b> | <b>.0001</b> | <b>.0013</b> |



Sample Name: ICIS Cal Blk      Acquired: 3/4/2016 11:07:38      Type: Cal  
Method: sw02152016(v10)      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    | .0007         | -.0036        | .0007         | .0019         |
| Stddev | .0001         | .0004         | .0001         | .0005         |
| %RSD   | 13.47         | 10.66         | 19.71         | 26.20         |

|    |       |        |       |       |
|----|-------|--------|-------|-------|
| #1 | .0008 | -.0037 | .0006 | .0020 |
| #2 | .0007 | -.0032 | .0009 | .0013 |
| #3 | .0006 | -.0040 | .0006 | .0023 |

|           |               |               |               |
|-----------|---------------|---------------|---------------|
| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | 2438.7        | 27432.        | 3873.7        |
| Stddev    | 9.4           | 89.           | 8.2           |
| %RSD      | .38547        | .32562        | .21089        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2427.8 | 27371. | 3864.7 |
| #2 | 2444.0 | 27391. | 3880.6 |
| #3 | 2444.2 | 27535. | 3875.9 |

Sample Name: CAL1      Acquired: 3/4/2016 11:11:28      Type: Cal  
Method: sw02152016(v10)      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    | <b>-.0004</b> | <b>.0005</b>  | <b>.0020</b>  | <b>.0009</b>  | <b>-.0014</b> |
| Stddev | .0002         | .0002         | .0001         | .0001         | .0002         |
| %RSD   | 42.54         | 35.75         | 3.700         | 6.890         | 17.63         |

|    |               |              |              |              |               |
|----|---------------|--------------|--------------|--------------|---------------|
| #1 | <b>-.0002</b> | <b>.0007</b> | <b>.0021</b> | <b>.0008</b> | <b>-.0016</b> |
| #2 | <b>-.0004</b> | <b>.0005</b> | <b>.0020</b> | <b>.0009</b> | <b>-.0012</b> |
| #3 | <b>-.0006</b> | <b>.0004</b> | <b>.0019</b> | <b>.0009</b> | <b>-.0013</b> |

|           |               |
|-----------|---------------|
| Int. Std. | Y_2243        |
| Line      | 224.306 {450} |
| Units     | Cts/S         |
| Avg       | <b>2475.4</b> |
| Stddev    | 5.9           |
| %RSD      | .23705        |

|    |               |
|----|---------------|
| #1 | <b>2473.3</b> |
| #2 | <b>2471.0</b> |
| #3 | <b>2482.1</b> |

Sample Name: CAL2      Acquired: 3/4/2016 11:15:19      Type: Cal  
Method: sw02152016(v10)      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    | <b>.0091</b>  | <b>.0003</b>  | <b>.0027</b>  | <b>.3913</b>  | <b>.0098</b>  | <b>.1108</b>  |
| Stddev | .0003         | .0000         | .0001         | .0008         | .0003         | .0002         |
| %RSD   | 2.937         | 16.88         | 4.056         | .2099         | 2.838         | .1452         |

|    |              |              |              |              |              |              |
|----|--------------|--------------|--------------|--------------|--------------|--------------|
| #1 | <b>.0092</b> | <b>.0002</b> | <b>.0029</b> | <b>.3922</b> | <b>.0097</b> | <b>.1109</b> |
| #2 | <b>.0092</b> | <b>.0003</b> | <b>.0026</b> | <b>.3906</b> | <b>.0097</b> | <b>.1108</b> |
| #3 | <b>.0088</b> | <b>.0003</b> | <b>.0027</b> | <b>.3911</b> | <b>.0101</b> | <b>.1106</b> |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 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    | <b>.0116</b>  | <b>.0562</b>  | <b>.0017</b>  | <b>.0199</b>  | <b>.0022</b>  | <b>.3190</b>  |
| Stddev | .0003         | .0003         | .0000         | .0001         | .0001         | .0051         |
| %RSD   | 2.988         | .4473         | 2.733         | .6597         | 4.659         | 1.593         |

|    |              |              |              |              |              |              |
|----|--------------|--------------|--------------|--------------|--------------|--------------|
| #1 | <b>.0119</b> | <b>.0564</b> | <b>.0018</b> | <b>.0199</b> | <b>.0022</b> | <b>.3141</b> |
| #2 | <b>.0116</b> | <b>.0564</b> | <b>.0017</b> | <b>.0201</b> | <b>.0021</b> | <b>.3242</b> |
| #3 | <b>.0112</b> | <b>.0559</b> | <b>.0017</b> | <b>.0199</b> | <b>.0023</b> | <b>.3188</b> |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 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    | <b>.1106</b>  | <b>.0155</b>  | <b>1.235</b>  | <b>.0285</b>  | <b>.0021</b>  | <b>.0037</b>  |
| Stddev | .0002         | .0001         | .007          | .0004         | .0002         | .0001         |
| %RSD   | .1446         | .3807         | .5598         | 1.434         | 11.32         | 2.550         |

|    |              |              |              |              |              |              |
|----|--------------|--------------|--------------|--------------|--------------|--------------|
| #1 | <b>.1107</b> | <b>.0154</b> | <b>1.241</b> | <b>.0282</b> | <b>.0020</b> | <b>.0037</b> |
| #2 | <b>.1104</b> | <b>.0156</b> | <b>1.227</b> | <b>.0289</b> | <b>.0024</b> | <b>.0038</b> |
| #3 | <b>.1107</b> | <b>.0155</b> | <b>1.237</b> | <b>.0283</b> | <b>.0020</b> | <b>.0036</b> |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| 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    | <b>.0021</b>  | <b>-.0001</b> | <b>.0112</b>  | <b>.0412</b>  | <b>.0252</b>  | <b>.0170</b>  |
| Stddev | .0003         | .0002         | .0001         | .0004         | .0003         | .0000         |
| %RSD   | 13.36         | 185.4         | 1.285         | .9612         | 1.095         | .1487         |

|    |              |               |              |              |              |              |
|----|--------------|---------------|--------------|--------------|--------------|--------------|
| #1 | <b>.0018</b> | <b>-.0002</b> | <b>.0114</b> | <b>.0414</b> | <b>.0250</b> | <b>.0170</b> |
| #2 | <b>.0024</b> | <b>.0001</b>  | <b>.0112</b> | <b>.0413</b> | <b>.0255</b> | <b>.0170</b> |
| #3 | <b>.0022</b> | <b>-.0003</b> | <b>.0112</b> | <b>.0407</b> | <b>.0250</b> | <b>.0170</b> |

Sample Name: CAL2      Acquired: 3/4/2016 11:15:19      Type: Cal  
Method: sw02152016(v10)      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    | <b>.0098</b>  | <b>.1553</b>  | <b>.0207</b>  |
| Stddev | .0001         | .0008         | .0001         |
| %RSD   | 1.407         | .5182         | .7126         |

|    |       |       |       |
|----|-------|-------|-------|
| #1 | .0099 | .1560 | .0209 |
| #2 | .0098 | .1554 | .0206 |
| #3 | .0097 | .1544 | .0207 |

|           |               |               |               |
|-----------|---------------|---------------|---------------|
| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2484.1</b> | <b>27774.</b> | <b>3987.9</b> |
| Stddev    | 3.8           | 177.          | 12.7          |
| %RSD      | .15436        | .63744        | .31799        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2488.1 | 27951. | 4002.4 |
| #2 | 2483.9 | 27772. | 3982.1 |
| #3 | 2480.4 | 27597. | 3979.1 |

Sample Name: CAL3      Acquired: 3/4/2016 11:19:08      Type: Cal  
Method: sw02152016(v10)      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    | <b>1.124</b>  | <b>.0449</b>  | <b>.0802</b>  | <b>4.026</b>  | <b>.9708</b>  | <b>.5850</b>  |
| Stddev | .006          | .0003         | .0003         | .007          | .0065         | .0017         |
| %RSD   | .5581         | .5770         | .4129         | .1666         | .6732         | .2981         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 1.117 | .0447 | .0805 | 4.020 | .9644 | .5859 |
| #2 | 1.126 | .0447 | .0799 | 4.033 | .9705 | .5830 |
| #3 | 1.129 | .0452 | .0803 | 4.026 | .9774 | .5861 |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 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    | <b>.8278</b>  | <b>.5802</b>  | <b>.1889</b>  | <b>1.010</b>  | <b>.1997</b>  | <b>.6944</b>  |
| Stddev | .0004         | .0003         | .0012         | .001          | .0006         | .0032         |
| %RSD   | .0472         | .0432         | .6616         | .1202         | .3084         | .4670         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | .8282 | .5800 | .1896 | 1.009 | .1998 | .6932 |
| #2 | .8277 | .5804 | .1875 | 1.010 | .1991 | .6920 |
| #3 | .8274 | .5803 | .1896 | 1.011 | .2003 | .6981 |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 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    | <b>.5623</b>  | <b>1.032</b>  | <b>6.446</b>  | <b>.3691</b>  | <b>.3652</b>  | <b>.0381</b>  |
| Stddev | .0026         | .002          | .026          | .0004         | .0002         | .0001         |
| %RSD   | .4557         | .2359         | .3998         | .1008         | .0452         | .3255         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | .5642 | 1.031 | 6.419 | .3690 | .3652 | .0379 |
| #2 | .5594 | 1.029 | 6.447 | .3695 | .3654 | .0381 |
| #3 | .5633 | 1.034 | 6.471 | .3688 | .3651 | .0381 |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| 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    | <b>.0445</b>  | <b>.0687</b>  | <b>.1160</b>  | <b>.5724</b>  | <b>.1110</b>  | <b>.4241</b>  |
| Stddev | .0004         | .0000         | .0005         | .0001         | .0003         | .0008         |
| %RSD   | .8075         | .0652         | .4391         | .0181         | .2806         | .1911         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | .0449 | .0687 | .1157 | .5725 | .1112 | .4232 |
| #2 | .0442 | .0687 | .1157 | .5723 | .1106 | .4242 |
| #3 | .0444 | .0687 | .1166 | .5725 | .1110 | .4248 |

Sample Name: CAL3      Acquired: 3/4/2016 11:19:08      Type: Cal  
Method: sw02152016(v10)      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    | <b>.0382</b>  | <b>8.095</b>  | <b>2.030</b>  | <b>.0715</b>  |
| Stddev | .0002         | .042          | .004          | .0008         |
| %RSD   | .5506         | .5169         | .1733         | 1.076         |

|    |              |              |              |              |
|----|--------------|--------------|--------------|--------------|
| #1 | <b>.0384</b> | <b>8.058</b> | <b>2.031</b> | <b>.0718</b> |
| #2 | <b>.0383</b> | <b>8.087</b> | <b>2.026</b> | <b>.0707</b> |
| #3 | <b>.0380</b> | <b>8.141</b> | <b>2.033</b> | <b>.0721</b> |

|           |               |               |               |
|-----------|---------------|---------------|---------------|
| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2441.7</b> | <b>27564.</b> | <b>3863.6</b> |
| Stddev    | 3.1           | 269.          | 7.5           |
| %RSD      | .12660        | .97603        | .19367        |

|    |               |               |               |
|----|---------------|---------------|---------------|
| #1 | <b>2440.8</b> | <b>27290.</b> | <b>3867.8</b> |
| #2 | <b>2445.1</b> | <b>27828.</b> | <b>3854.9</b> |
| #3 | <b>2439.1</b> | <b>27573.</b> | <b>3868.0</b> |

Sample Name: CAL4      Acquired: 3/4/2016 11:22:43      Type: Cal  
Method: sw02152016(v10)      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    | <b>5.378</b>  | <b>.2218</b>  | <b>.3933</b>  | <b>19.27</b>  | <b>4.581</b>  | <b>2.810</b>  |
| Stddev | .017          | .0008         | .0019         | .04           | .021          | .009          |
| %RSD   | .3153         | .3463         | .4767         | .2027         | .4493         | .3396         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 5.397 | .2216 | .3936 | 19.24 | 4.600 | 2.820 |
| #2 | 5.366 | .2212 | .3912 | 19.26 | 4.583 | 2.800 |
| #3 | 5.371 | .2227 | .3949 | 19.32 | 4.559 | 2.810 |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 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    | <b>3.893</b>  | <b>2.738</b>  | <b>.8783</b>  | <b>5.002</b>  | <b>.9249</b>  | <b>3.445</b>  |
| Stddev | .005          | .005          | .0027         | .018          | .0022         | .009          |
| %RSD   | .1342         | .1865         | .3056         | .3671         | .2341         | .2573         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 3.889 | 2.735 | .8777 | 4.998 | .9265 | 3.455 |
| #2 | 3.890 | 2.736 | .8760 | 4.985 | .9225 | 3.438 |
| #3 | 3.899 | 2.744 | .8812 | 5.021 | .9257 | 3.442 |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 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    | <b>2.733</b>  | <b>4.844</b>  | <b>31.28</b>  | <b>1.738</b>  | <b>1.749</b>  | <b>.1845</b>  |
| Stddev | .012          | .007          | .07           | .004          | .005          | .0009         |
| %RSD   | .4211         | .1532         | .2250         | .2076         | .2957         | .4776         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 2.737 | 4.849 | 31.34 | 1.737 | 1.744 | .1840 |
| #2 | 2.721 | 4.836 | 31.20 | 1.735 | 1.748 | .1839 |
| #3 | 2.743 | 4.848 | 31.30 | 1.742 | 1.754 | .1855 |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| 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    | <b>.2172</b>  | <b>.3432</b>  | <b>.5486</b>  | <b>2.630</b>  | <b>.5453</b>  | <b>2.031</b>  |
| Stddev | .0013         | .0004         | .0012         | .003          | .0018         | .006          |
| %RSD   | .5912         | .1027         | .2259         | .1064         | .3257         | .3135         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | .2171 | .3430 | .5494 | 2.627 | .5436 | 2.025 |
| #2 | .2160 | .3429 | .5472 | 2.630 | .5452 | 2.031 |
| #3 | .2185 | .3436 | .5493 | 2.632 | .5471 | 2.038 |

Sample Name: CAL4      Acquired: 3/4/2016 11:22:43      Type: Cal  
Method: sw02152016(v10)      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    | <b>.1801</b>  | <b>39.04</b>  | <b>9.707</b>  | <b>.3414</b>  |
| Stddev | .0008         | .07           | .025          | .0014         |
| %RSD   | .4444         | .1863         | .2526         | .4234         |

|    |       |       |       |       |
|----|-------|-------|-------|-------|
| #1 | .1801 | 39.12 | 9.692 | .3397 |
| #2 | .1793 | 39.02 | 9.693 | .3424 |
| #3 | .1809 | 38.98 | 9.735 | .3419 |

|           |               |               |               |
|-----------|---------------|---------------|---------------|
| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2381.5</b> | <b>27141.</b> | <b>3856.7</b> |
| Stddev    | 7.1           | 179.          | 54.0          |
| %RSD      | .29619        | .66069        | 1.3989        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2377.3 | 26934. | 3794.9 |
| #2 | 2377.4 | 27249. | 3893.9 |
| #3 | 2389.6 | 27241. | 3881.4 |



Sample Name: icb      Acquired: 3/4/2016 11:33:40      Type: QC  
Method: sw02152016(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    | <b>19.62</b>  | <b>-.1632</b> | <b>.3756</b>  | <b>.5668</b>  | <b>.1229</b>  | <b>-.0178</b> |
| Stddev | 19.79         | 1.512         | .1727         | .0824         | .0906         | 44.77         |
| %RSD   | 100.9         | 926.2         | 45.99         | 14.53         | 73.73         | 250900.       |
| #1     | 22.66         | 1.540         | .1971         | .6582         | .2233         | 50.66         |
| #2     | 37.71         | -.6846        | .5420         | .4985         | .0474         | -16.50        |
| #3     | -1.514        | -1.345        | .3878         | .5436         | .0978         | -34.22        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.1097</b>  | <b>.4324</b>  | <b>1.381</b>  | <b>2.157</b>  | <b>28.44</b>  | <b>.2693</b>  |
| Stddev | .0395         | .1086         | 1.637         | 3.373         | 16.52         | 43.32         |
| %RSD   | 35.99         | 25.12         | 118.5         | 156.4         | 58.08         | 16090.        |
| #1     | .0775         | .5211         | 3.193         | 6.031         | 42.53         | -48.90        |
| #2     | .0980         | .4648         | .9390         | -.1194        | 32.53         | 16.91         |
| #3     | .1538         | .3112         | .0106         | .5585         | 10.26         | 32.80         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>27.88</b>  | <b>1.226</b>  | <b>22.87</b>  | <b>-.6679</b> | <b>.5445</b>  | <b>.9521</b>  |
| Stddev | 33.55         | 1.689         | 8.51          | .8266         | .2758         | .7508         |
| %RSD   | 120.3         | 137.8         | 37.21         | 123.8         | 50.64         | 78.86         |
| #1     | 66.53         | 3.177         | 32.30         | -1.566        | .8592         | 1.818         |
| #2     | 6.373         | .2413         | 15.78         | .0603         | .3451         | .4830         |
| #3     | 10.73         | .2604         | 20.52         | -.4976        | .4293         | .5552         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: icb      Acquired: 3/4/2016 11:33:40      Type: QC  
Method: sw02152016(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    | <b>.4836</b>  | <b>-1.791</b> | <b>.5602</b>  | <b>.2459</b>  | <b>3.661</b>  | <b>2.172</b>  |
| Stddev | 1.629         | 1.975         | .6000         | .2260         | .708          | .792          |
| %RSD   | 336.8         | 110.3         | 107.1         | 91.91         | 19.35         | 36.47         |
| #1     | 2.160         | .3907         | 1.252         | -.0150        | 4.474         | 3.056         |
| #2     | -1.094        | -3.458        | .1837         | .3704         | 3.179         | 1.933         |
| #3     | .3848         | -2.305        | .2447         | .3822         | 3.330         | 1.527         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.788</b>  | <b>.5330</b>  | <b>2.962</b>  | <b>27.07</b>  |
| Stddev | .673          | .0784         | 3.171         | 17.68         |
| %RSD   | 37.64         | 14.70         | 107.1         | 65.34         |
| #1     | 1.478         | .5905         | 6.613         | 37.52         |
| #2     | 1.326         | .5648         | .9045         | 6.648         |
| #3     | 2.560         | .4437         | 1.367         | 37.03         |

|            |          |          |          |      |
|------------|----------|----------|----------|------|
| 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       | <b>2417.8</b> | <b>27460.</b> | <b>3776.8</b> |
| Stddev    | 12.3          | 254.          | 20.7          |
| %RSD      | .50907        | .92488        | .54846        |
| #1        | 2421.1        | 27560.        | 3757.6        |
| #2        | 2428.0        | 27649.        | 3774.1        |
| #3        | 2404.1        | 27171.        | 3798.8        |

Sample Name: CAL5      Acquired: 3/4/2016 11:26:10      Type: Cal  
Method: sw02152016(v10)      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    | <b>10.74</b>  | <b>.4527</b>  | <b>.8006</b>  | <b>38.50</b>  | <b>8.960</b>  | <b>5.558</b>  |
| Stddev | .02           | .0021         | .0017         | .15           | .019          | .022          |
| %RSD   | .1753         | .4589         | .2077         | .3917         | .2140         | .3962         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 10.74 | .4537 | .8024 | 38.64 | 8.968 | 5.582 |
| #2 | 10.72 | .4540 | .7992 | 38.34 | 8.938 | 5.552 |
| #3 | 10.75 | .4503 | .8000 | 38.53 | 8.974 | 5.539 |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 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    | <b>7.729</b>  | <b>5.489</b>  | <b>1.729</b>  | <b>10.10</b>  | <b>1.809</b>  | <b>6.969</b>  |
| Stddev | .033          | .012          | .004          | .09           | .006          | .013          |
| %RSD   | .4240         | .2195         | .1998         | .9033         | .3249         | .1840         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 7.766 | 5.502 | 1.732 | 10.06 | 1.815 | 6.970 |
| #2 | 7.706 | 5.478 | 1.730 | 10.03 | 1.809 | 6.955 |
| #3 | 7.714 | 5.486 | 1.725 | 10.20 | 1.803 | 6.981 |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 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    | <b>5.505</b>  | <b>9.403</b>  | <b>62.55</b>  | <b>3.449</b>  | <b>3.505</b>  | <b>.3717</b>  |
| Stddev | .020          | .030          | .09           | .012          | .011          | .0007         |
| %RSD   | .3638         | .3228         | .1481         | .3578         | .3069         | .1970         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 5.521 | 9.395 | 62.66 | 3.463 | 3.517 | .3725 |
| #2 | 5.511 | 9.376 | 62.49 | 3.439 | 3.500 | .3711 |
| #3 | 5.483 | 9.436 | 62.50 | 3.446 | 3.498 | .3715 |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| 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    | <b>.4364</b>  | <b>.6864</b>  | <b>1.089</b>  | <b>5.166</b>  | <b>1.113</b>  | <b>4.096</b>  |
| Stddev | .0017         | .0020         | .003          | .019          | .002          | .011          |
| %RSD   | .3937         | .2924         | .2808         | .3676         | .1347         | .2684         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | .4381 | .6886 | 1.093 | 5.188 | 1.115 | 4.106 |
| #2 | .4365 | .6855 | 1.088 | 5.156 | 1.113 | 4.084 |
| #3 | .4347 | .6849 | 1.087 | 5.155 | 1.112 | 4.097 |

Sample Name: CAL5      Acquired: 3/4/2016 11:26:10      Type: Cal  
Method: sw02152016(v10)      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    | <b>.3620</b>  | <b>77.25</b>  | <b>19.08</b>  | <b>.7076</b>  |
| Stddev | .0015         | .06           | .32           | .0092         |
| %RSD   | .4102         | .0731         | 1.660         | 1.296         |

|    |       |       |       |       |
|----|-------|-------|-------|-------|
| #1 | .3631 | 77.21 | 18.97 | .6976 |
| #2 | .3603 | 77.31 | 19.44 | .7098 |
| #3 | .3626 | 77.22 | 18.84 | .7155 |

|           |               |               |               |
|-----------|---------------|---------------|---------------|
| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2306.6</b> | <b>26853.</b> | <b>3917.5</b> |
| Stddev    | 9.6           | 196.          | 61.4          |
| %RSD      | .41570        | .73094        | 1.5682        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2308.4 | 26627. | 3847.2 |
| #2 | 2315.1 | 26961. | 3960.9 |
| #3 | 2296.2 | 26972. | 3944.4 |

Sample Name: icvl 4079378      Acquired: 3/4/2016 11:37:33      Type: QC  
Method: sw02152016(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    | <b>220.8</b>  | <b>16.07</b>  | <b>10.02</b>  | <b>204.3</b>  | <b>2.167</b>  | <b>5079.</b>  |
| Stddev | 17.9          | 1.03          | .26           | .0            | .070          | 26.           |
| %RSD   | 8.109         | 6.425         | 2.566         | .0208         | 3.209         | .5109         |
| #1     | 206.8         | 16.12         | 10.32         | 204.4         | 2.129         | 5049.         |
| #2     | 214.5         | 15.02         | 9.855         | 204.3         | 2.125         | 5092.         |
| #3     | 241.0         | 17.08         | 9.895         | 204.3         | 2.248         | 5096.         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4.385</b>  | <b>52.15</b>  | <b>11.55</b>  | <b>25.38</b>  | <b>171.2</b>  | <b>4934.</b>  |
| Stddev | .152          | .19           | 1.04          | 2.08          | 28.5          | 33.           |
| %RSD   | 3.464         | .3699         | 8.999         | 8.196         | 16.63         | .6649         |
| #1     | 4.537         | 52.37         | 10.96         | 24.19         | 144.5         | 4950.         |
| #2     | 4.384         | 52.01         | 12.75         | 27.79         | 201.2         | 4896.         |
| #3     | 4.233         | 52.07         | 10.95         | 24.18         | 167.9         | 4956.         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4992.</b>  | <b>16.50</b>  | <b>5044.</b>  | <b>41.23</b>  | <b>10.21</b>  | <b>19.17</b>  |
| Stddev | 50.           | .74           | 9.            | .29           | 1.05          | .24           |
| %RSD   | 1.010         | 4.497         | .1704         | .7037         | 10.32         | 1.267         |
| #1     | 4935.         | 16.05         | 5036.         | 40.96         | 11.39         | 19.44         |
| #2     | 5028.         | 17.35         | 5043.         | 41.20         | 9.876         | 18.97         |
| #3     | 5014.         | 16.09         | 5053.         | 41.53         | 9.361         | 19.10         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: icvl 4079378      Acquired: 3/4/2016 11:37:33      Type: QC  
Method: sw02152016(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    | 20.14         | 23.24         | 51.33         | 31.97         | 49.24         | 20.21         |
| Stddev | .99           | 2.66          | .57           | .25           | .07           | .31           |
| %RSD   | 4.901         | 11.45         | 1.110         | .7768         | .1466         | 1.515         |
| #1     | 20.16         | 26.30         | 51.22         | 31.70         | 49.31         | 20.39         |
| #2     | 19.14         | 21.41         | 51.95         | 32.01         | 49.22         | 20.39         |
| #3     | 21.12         | 22.02         | 50.82         | 32.19         | 49.17         | 19.86         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | 50.98         | 20.65         | 21.99         | F 23.37       |
| Stddev | 1.05          | .14           | 1.52          | 11.68         |
| %RSD   | 2.060         | .6610         | 6.934         | 49.97         |
| #1     | 51.99         | 20.63         | 21.00         | 11.83         |
| #2     | 49.89         | 20.80         | 23.75         | 35.17         |
| #3     | 51.05         | 20.53         | 21.22         | 23.10         |

|         |          |          |          |          |
|---------|----------|----------|----------|----------|
| 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       | 2489.5        | 28089.        | 3946.4        |
| Stddev    | 2.8           | 47.           | 55.1          |
| %RSD      | .11228        | .16832        | 1.3954        |
| #1        | 2491.6        | 28037.        | 3886.7        |
| #2        | 2490.6        | 28130.        | 3995.2        |
| #3        | 2486.4        | 28101.        | 3957.4        |

Sample Name: int-10a 4140672      Acquired: 3/4/2016 11:49:17      Type: QC  
Method: sw02152016(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    | <b>37.33</b>  | <b>.5561</b>  | <b>4.944</b>  | <b>1.081</b>  | <b>1.413</b>  | <b>10.65</b>  |
| Stddev | 19.09         | 1.480         | .338          | .225          | .052          | 8.25          |
| %RSD   | 51.14         | 266.2         | 6.846         | 20.81         | 3.674         | 77.52         |
| #1     | 56.17         | .7633         | 4.575         | .8564         | 1.472         | 15.37         |
| #2     | 37.83         | -1.017        | 5.240         | 1.080         | 1.389         | 15.46         |
| #3     | 18.00         | 1.922         | 5.016         | 1.306         | 1.377         | 1.117         |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.0903</b>  | <b>9978.</b>  | <b>.8939</b>  | <b>.4765</b>  | <b>157.1</b>  | <b>53.50</b>  |
| Stddev | .0873         | 9.            | .4097         | .2727         | 1.0           | 22.32         |
| %RSD   | 96.71         | .0861         | 45.84         | 57.22         | .6369         | 41.72         |
| #1     | .1460         | 9968.         | .4715         | .2006         | 157.6         | 66.14         |
| #2     | -.0104        | 9985.         | .9204         | .7458         | 156.0         | 27.73         |
| #3     | .1353         | 9980.         | 1.290         | .4831         | 157.8         | 66.63         |

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    | <b>25.49</b>  | <b>-.2825</b> | <b>18.21</b>  | <b>1.160</b>  | <b>-3.896</b> | <b>9.010</b>  |
| Stddev | 8.36          | .0998         | 7.53          | .476          | .365          | .501          |
| %RSD   | 32.81         | 35.33         | 41.33         | 41.04         | 9.380         | 5.566         |
| #1     | 31.72         | -.1822        | 26.22         | 1.611         | -3.506        | 9.417         |
| #2     | 28.76         | -.2835        | 17.14         | 1.207         | -3.950        | 8.450         |
| #3     | 15.98         | -.3818        | 11.28         | .6622         | -4.231        | 9.163         |

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

Sample Name: int-10a 4140672      Acquired: 3/4/2016 11:49:17      Type: QC  
Method: sw02152016(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    | -7.798        | 34.91         | F 9904.       | .0924         | -6.141        | -2.770        |
| Stddev | .317          | 1.55          | 48.           | .0904         | .308          | .145          |
| %RSD   | 4.063         | 4.429         | .4829         | 97.84         | 5.016         | 5.229         |
| #1     | -7.976        | 35.15         | 9855.         | .1948         | -6.492        | -2.706        |
| #2     | -7.985        | 33.26         | 9907.         | .0589         | -6.013        | -2.935        |
| #3     | -7.432        | 36.33         | 9950.         | .0235         | -5.917        | -2.667        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | 9748.         | 9813.         | -.5569        | 9107.         |
| Stddev | 12.           | 46.           | .0046         | 44.           |
| %RSD   | .1220         | .4681         | .8327         | .4836         |
| #1     | 9735.         | 9764.         | -.5585        | 9090.         |
| #2     | 9759.         | 9819.         | -.5517        | 9074.         |
| #3     | 9751.         | 9855.         | -.5605        | 9157.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |
| Low Limit  |          |          |          |          |

|           |               |               |               |
|-----------|---------------|---------------|---------------|
| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | 2494.5        | 28025.        | 3985.0        |
| Stddev    | 23.8          | 399.          | 56.2          |
| %RSD      | .95529        | 1.4254        | 1.4112        |
| #1        | 2518.6        | 28428.        | 4037.7        |
| #2        | 2493.9        | 28019.        | 3991.6        |
| #3        | 2471.0        | 27629.        | 3925.8        |



Sample Name: icv 4140568      Acquired: 3/4/2016 11:30:13      Type: QC  
Method: sw02152016(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    | <b>126500.</b> | <b>2463.</b>  | <b>1238.</b>  | <b>10060.</b> | <b>1021.</b>  | <b>124900.</b> |
| Stddev | 726.           | 12.           | 5.            | 28.           | 6.            | 723.           |
| %RSD   | .5739          | .4931         | .3678         | .2751         | .5867         | .5791          |

|    |         |       |       |        |       |         |
|----|---------|-------|-------|--------|-------|---------|
| #1 | 125700. | 2477. | 1240. | 10050. | 1014. | 125500. |
| #2 | 126700. | 2460. | 1241. | 10050. | 1025. | 125100. |
| #3 | 127200. | 2453. | 1233. | 10100. | 1025. | 124100. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>1252.</b>  | <b>2506.</b>  | <b>5014.</b>  | <b>12580.</b> | <b>100400.</b> | <b>50440.</b> |
| Stddev | 1.            | 3.            | 20.           | 33.           | 394.           | 288.          |
| %RSD   | .0647         | .1061         | .3928         | .2586         | .3920          | .5711         |

|    |       |       |       |        |         |        |
|----|-------|-------|-------|--------|---------|--------|
| #1 | 1251. | 2507. | 5029. | 12570. | 100700. | 50110. |
| #2 | 1251. | 2503. | 5021. | 12610. | 100600. | 50650. |
| #3 | 1253. | 2509. | 4992. | 12550. | 99950.  | 50560. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>123100.</b> | <b>5105.</b>  | <b>126200.</b> | <b>2519.</b>  | <b>7484.</b>  | <b>1001.</b>  |
| Stddev | 488.           | 24.           | 693.           | 4.            | 5.            | 1.            |
| %RSD   | .3965          | .4665         | .5493          | .1783         | .0602         | .1228         |

|    |         |       |         |       |       |       |
|----|---------|-------|---------|-------|-------|-------|
| #1 | 123500. | 5117. | 125400. | 2518. | 7488. | 999.5 |
| #2 | 123200. | 5122. | 126400. | 2516. | 7479. | 1001. |
| #3 | 122500. | 5078. | 126700. | 2525. | 7484. | 1002. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: icv 4140568      Acquired: 3/4/2016 11:30:13      Type: QC  
Method: sw02152016(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    | <b>2481.</b>  | <b>2513.</b>  | <b>2518.</b>  | <b>2509.</b>  | <b>996.4</b>  | <b>2508.</b>  |
| Stddev | 15.           | 5.            | 12.           | 8.            | 1.1           | 5.            |
| %RSD   | .6101         | .1810         | .4631         | .3352         | .1119         | .2121         |
| #1     | 2498.         | 2512.         | 2523.         | 2518.         | 997.4         | 2505.         |
| #2     | 2476.         | 2509.         | 2525.         | 2507.         | 996.5         | 2505.         |
| #3     | 2469.         | 2518.         | 2504.         | 2501.         | 995.2         | 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    | <b>998.2</b>  | <b>5062.</b>  | <b>10120.</b> | <b>9846.</b>  |
| Stddev | 3.1           | 25.           | 24.           | 27.           |
| %RSD   | .3146         | .4890         | .2323         | .2707         |
| #1     | 994.7         | 5034.         | 10120.        | 9815.         |
| #2     | 999.3         | 5077.         | 10130.        | 9858.         |
| #3     | 1001.         | 5077.         | 10090.        | 9864.         |

|         |          |          |          |      |
|---------|----------|----------|----------|------|
| 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       | <b>2352.3</b> | <b>27168.</b> | <b>3804.5</b> |
| Stddev    | 12.7          | 309.          | 9.3           |
| %RSD      | .54119        | 1.1373        | .24561        |
| #1        | 2338.3        | 26888.        | 3795.3        |
| #2        | 2355.6        | 27117.        | 3804.2        |
| #3        | 2363.2        | 27500.        | 3814.0        |

Sample Name: icsa 4079387      Acquired: 3/4/2016 11:41:22      Type: QC  
Method: sw02152016(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    | <b>495100.</b> | <b>-.2811</b> | <b>.5426</b>  | <b>.4992</b>  | <b>.0548</b>  | <b>493000.</b> |
| Stddev | 2962.          | 3.429         | .3118         | .3312         | .0585         | 2855.          |
| %RSD   | .5983          | 1220.         | 57.46         | 66.36         | 106.7         | .5792          |

|    |         |        |       |       |        |         |
|----|---------|--------|-------|-------|--------|---------|
| #1 | 498500. | 1.315  | .7144 | .7167 | .0848  | 489700. |
| #2 | 493500. | -4.217 | .7307 | .1179 | -.0126 | 494200. |
| #3 | 493200. | 2.058  | .1827 | .6628 | .0922  | 495000. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |                |               |
|--------|---------------|---------------|---------------|---------------|----------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714         | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124}  | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)       | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb            | ppb           |
| Avg    | <b>-.4068</b> | <b>-2.185</b> | <b>-1.344</b> | <b>-1.054</b> | <b>194100.</b> | <b>-27.07</b> |
| Stddev | .1858         | .347          | .588          | .426          | 811.           | 19.00         |
| %RSD   | 45.68         | 15.88         | 43.74         | 40.45         | .4179          | 70.21         |

|    |        |        |        |        |         |        |
|----|--------|--------|--------|--------|---------|--------|
| #1 | -.2262 | -1.784 | -.7555 | -1.281 | 193200. | -37.20 |
| #2 | -.3969 | -2.386 | -1.344 | -1.319 | 194500. | -38.85 |
| #3 | -.5974 | -2.385 | -1.931 | -.5621 | 194700. | -5.145 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |                |               |               |               |               |               |
|--------|----------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790         | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121}  | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)       | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb            | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>503800.</b> | <b>-4.453</b> | <b>-28.01</b> | <b>-1.670</b> | <b>-1.292</b> | <b>-3.612</b> |
| Stddev | 4485.          | .093          | 10.52         | .720          | .870          | 1.273         |
| %RSD   | .8901          | 2.083         | 37.57         | 43.10         | 67.34         | 35.23         |

|    |         |        |        |        |        |        |
|----|---------|--------|--------|--------|--------|--------|
| #1 | 500800. | -4.359 | -39.89 | -2.295 | -2.295 | -2.182 |
| #2 | 501700. | -4.544 | -19.88 | -1.831 | -.8345 | -4.036 |
| #3 | 509000. | -4.456 | -24.25 | -.8829 | -.7457 | -4.618 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: icsa 4079387      Acquired: 3/4/2016 11:41:22      Type: QC  
Method: sw02152016(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    | <b>-1.1918</b> | <b>1.961</b>  | <b>-.0933</b> | <b>-3.655</b> | <b>-6.004</b> | <b>-.3536</b> |
| Stddev | 2.699          | 3.436         | .7608         | .391          | .666          | .6531         |
| %RSD   | 1407.          | 175.3         | 815.2         | 10.70         | 11.09         | 184.7         |
| #1     | 2.799          | 5.165         | -.3850        | -3.680        | -6.165        | .2795         |
| #2     | -2.446         | 2.386         | -.6651        | -4.032        | -5.272        | -.3155        |
| #3     | -.9283         | -1.668        | .7701         | -3.251        | -6.574        | -1.025        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.4951</b> | <b>-1.595</b> | <b>.0336</b>  | <b>16.64</b>  |
| Stddev | 1.328         | .111          | .3111         | 21.01         |
| %RSD   | 268.3         | 6.965         | 925.8         | 126.2         |
| #1     | .7618         | -1.478        | -.1643        | 24.45         |
| #2     | -1.885        | -1.610        | -.1271        | 32.63         |
| #3     | -.3621        | -1.698        | .3922         | -7.148        |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2350.1</b> | <b>26173.</b> | <b>3853.4</b> |
| Stddev    | 12.9          | 157.          | 87.8          |
| %RSD      | .54771        | .59806        | 2.2774        |
| #1        | 2340.3        | 26352.        | 3770.7        |
| #2        | 2364.7        | 26109.        | 3844.0        |
| #3        | 2345.3        | 26060.        | 3945.5        |

Sample Name: CCV      Acquired: 3/4/2016 12:04:35      Type: QC  
Method: sw02152016(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    | 127000.       | 2465.         | 1247.         | 10100.        | 1026.         | 126700.       |
| Stddev | 681.          | 5.            | 2.            | 10.           | 6.            | 458.          |
| %RSD   | .5360         | .2229         | .1406         | .1013         | .5737         | .3617         |

|    |         |       |       |        |       |         |
|----|---------|-------|-------|--------|-------|---------|
| #1 | 126200. | 2470. | 1247. | 10090. | 1020. | 126200. |
| #2 | 127400. | 2467. | 1249. | 10100. | 1030. | 126900. |
| #3 | 127500. | 2459. | 1245. | 10110. | 1029. | 127000. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 1259.         | 2516.         | 5068.         | 12600.        | 101500.       | 50710.        |
| Stddev | 2.            | 4.            | 11.           | 31.           | 221.          | 309.          |
| %RSD   | .1568         | .1635         | .2106         | .2469         | .2172         | .6100         |

|    |       |       |       |        |         |        |
|----|-------|-------|-------|--------|---------|--------|
| #1 | 1259. | 2513. | 5057. | 12630. | 101300. | 50360. |
| #2 | 1260. | 2521. | 5068. | 12590. | 101500. | 50940. |
| #3 | 1257. | 2515. | 5078. | 12570. | 101700. | 50830. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | 124600.       | 5147.         | 126800.       | 2535.         | 7497.         | 1007.         |
| Stddev | 240.          | 15.           | 398.          | 3.            | 24.           | 2.            |
| %RSD   | .1924         | .2947         | .3140         | .1371         | .3192         | .2350         |

|    |         |       |         |       |       |       |
|----|---------|-------|---------|-------|-------|-------|
| #1 | 124300. | 5132. | 126300. | 2531. | 7494. | 1005. |
| #2 | 124700. | 5146. | 127100. | 2537. | 7521. | 1009. |
| #3 | 124700. | 5162. | 126900. | 2537. | 7474. | 1006. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCV      Acquired: 3/4/2016 12:04:35      Type: QC  
Method: sw02152016(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    | 2492.         | 2512.         | 2535.         | 2525.         | 993.1         | 2514.         |
| Stddev | 10.           | 2.            | 5.            | 18.           | .2            | 5.            |
| %RSD   | .3819         | .0829         | .2081         | .7248         | .0178         | .1963         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 2488. | 2512. | 2533. | 2531. | 992.9 | 2508. |
| #2 | 2503. | 2509. | 2531. | 2540. | 993.0 | 2515. |
| #3 | 2485. | 2513. | 2541. | 2505. | 993.3 | 2518. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | 1004.         | 5092.         | 10160.        | 9942.         |
| Stddev | 3.            | 16.           | 4.            | 220.          |
| %RSD   | .2953         | .3183         | .0405         | 2.208         |

|    |       |       |        |        |
|----|-------|-------|--------|--------|
| #1 | 1007. | 5076. | 10160. | 10140. |
| #2 | 1003. | 5108. | 10170. | 9986.  |
| #3 | 1002. | 5093. | 10160. | 9704.  |

|         |          |          |          |      |
|---------|----------|----------|----------|------|
| 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       | 2340.3        | 26632.        | 3773.1        |
| Stddev    | 30.4          | 270.          | 94.4          |
| %RSD      | 1.2969        | 1.0157        | 2.5014        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2333.6 | 26934. | 3881.4 |
| #2 | 2313.9 | 26549. | 3708.5 |
| #3 | 2373.5 | 26413. | 3729.4 |

Sample Name: icsab 4140570      Acquired: 3/4/2016 11:45:24      Type: QC  
Method: sw02152016(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    | <b>548500.</b> | <b>100.1</b>  | <b>112.7</b>  | <b>109.4</b>  | <b>107.3</b>  | <b>540900.</b> |
| Stddev | 3091.          | 1.7           | .7            | .1            | .5            | 2810.          |
| %RSD   | .5636          | 1.655         | .6567         | .0486         | .4915         | .5194          |

|    |         |       |       |       |       |         |
|----|---------|-------|-------|-------|-------|---------|
| #1 | 552000. | 102.0 | 113.4 | 109.4 | 107.9 | 540600. |
| #2 | 547000. | 99.42 | 112.7 | 109.4 | 107.0 | 543900. |
| #3 | 546300. | 98.84 | 111.9 | 109.3 | 107.1 | 538300. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |                |               |
|--------|---------------|---------------|---------------|---------------|----------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714         | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124}  | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)       | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb            | ppb           |
| Avg    | <b>103.5</b>  | <b>102.0</b>  | <b>106.8</b>  | <b>113.7</b>  | <b>212500.</b> | <b>11200.</b> |
| Stddev | .2            | .3            | .5            | .4            | 186.           | 46.           |
| %RSD   | .1871         | .3107         | .4513         | .3278         | .0874          | .4140         |

|    |       |       |       |       |         |        |
|----|-------|-------|-------|-------|---------|--------|
| #1 | 103.5 | 101.9 | 107.1 | 114.1 | 212600. | 11200. |
| #2 | 103.4 | 102.4 | 107.1 | 113.7 | 212700. | 11240. |
| #3 | 103.7 | 101.8 | 106.3 | 113.4 | 212300. | 11150. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |                |               |               |               |               |               |
|--------|----------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790         | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121}  | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)       | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb            | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>547300.</b> | <b>103.1</b>  | <b>11270.</b> | <b>101.5</b>  | <b>96.58</b>  | <b>103.0</b>  |
| Stddev | 2225.          | .9            | 42.           | .4            | 1.07          | 1.8           |
| %RSD   | .4066          | .8823         | .3731         | .4124         | 1.110         | 1.750         |

|    |         |       |        |       |       |       |
|----|---------|-------|--------|-------|-------|-------|
| #1 | 547600. | 103.8 | 11310. | 101.5 | 96.18 | 100.9 |
| #2 | 545000. | 103.4 | 11260. | 101.1 | 97.79 | 103.9 |
| #3 | 549400. | 102.1 | 11230. | 102.0 | 95.76 | 104.1 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: icsab 4140570      Acquired: 3/4/2016 11:45:24      Type: QC  
Method: sw02152016(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    | 100.1         | 105.5         | 109.1         | 98.03         | 96.20         | 104.5         |
| Stddev | .3            | 3.0           | 1.3           | .44           | .27           | .2            |
| %RSD   | .2818         | 2.878         | 1.226         | .4439         | .2803         | .1738         |
| #1     | 100.4         | 107.9         | 110.5         | 98.03         | 96.45         | 104.4         |
| #2     | 99.88         | 102.1         | 109.1         | 98.46         | 95.92         | 104.5         |
| #3     | 100.1         | 106.6         | 107.8         | 97.59         | 96.23         | 104.7         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | 104.2         | 107.7         | 109.3         | 66.35         |
| Stddev | 1.5           | .3            | .3            | 2.21          |
| %RSD   | 1.431         | .3071         | .2925         | 3.323         |
| #1     | 104.7         | 108.0         | 109.6         | 68.90         |
| #2     | 102.5         | 107.3         | 109.0         | 65.02         |
| #3     | 105.3         | 107.7         | 109.4         | 65.15         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | 2357.1        | 26552.        | 3962.0        |
| Stddev    | 6.8           | 161.          | 62.5          |
| %RSD      | .28833        | .60746        | 1.5764        |
| #1        | 2349.8        | 26391.        | 3890.0        |
| #2        | 2358.4        | 26553.        | 3995.0        |
| #3        | 2363.2        | 26713.        | 4001.0        |



Sample Name: int-10b 4140674      Acquired: 3/4/2016 11:53:15      Type: QC  
Method: sw02152016(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    | <b>22.76</b>  | <b>-9295</b>  | <b>-4981</b>  | <b>-8247</b>  | <b>-1.449</b> | <b>51.54</b>  |
| Stddev | 19.66         | 1.635         | .2969         | .2041         | .097          | 3.48          |
| %RSD   | 86.36         | 175.9         | 59.61         | 24.75         | 6.692         | 6.748         |
| #1     | 45.45         | -1.119        | -.1562        | -.7550        | -1.424        | 55.54         |
| #2     | 11.01         | .7923         | -.6914        | -1.055        | -1.556        | 49.86         |
| #3     | 11.82         | -2.462        | -.6466        | -.6645        | -1.367        | 49.22         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.6532</b> | <b>4.850</b>  | <b>10310.</b> | <b>9709.</b>  | <b>-28.19</b> | <b>44.34</b>  |
| Stddev | .1199         | .224          | 68.           | 32.           | 8.28          | 51.56         |
| %RSD   | 18.36         | 4.615         | .6583         | .3330         | 29.38         | 116.3         |
| #1     | -.5652        | 4.604         | 10340.        | 9677.         | -21.14        | 88.70         |
| #2     | -.6047        | 5.041         | 10350.        | 9708.         | -26.12        | 56.57         |
| #3     | -.7898        | 4.906         | 10230.        | 9741.         | -37.32        | -12.23        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>23.17</b>  | <b>10420.</b> | <b>30.21</b>  | <b>10750.</b> | <b>-2.426</b> | <b>24.81</b>  |
| Stddev | 1.38          | 118.          | 11.48         | 38.           | .376          | 1.80          |
| %RSD   | 5.969         | 1.132         | 38.00         | .3550         | 15.49         | 7.268         |
| #1     | 24.68         | 10300.        | 32.71         | 10730.        | -2.652        | 22.91         |
| #2     | 22.87         | 10540.        | 40.23         | 10790.        | -2.633        | 26.50         |
| #3     | 21.96         | 10420.        | 17.68         | 10730.        | -1.992        | 25.02         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: int-10b 4140674      Acquired: 3/4/2016 11:53:15      Type: QC  
Method: sw02152016(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    | <b>-8.653</b> | <b>-3.700</b> | <b>-5.104</b> | <b>-2.793</b> | <b>57.85</b>  | <b>5084.</b>  |
| Stddev | 2.412         | 3.324         | .057          | .270          | .94           | 13.           |
| %RSD   | 27.87         | 89.85         | 1.111         | 9.679         | 1.629         | .2491         |
| #1     | -10.49        | -4.388        | -5.124        | -2.586        | 58.57         | 5072.         |
| #2     | -9.549        | -6.626        | -5.040        | -2.695        | 56.78         | 5097.         |
| #3     | -5.921        | -.0854        | -5.148        | -3.099        | 58.19         | 5081.         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-8.995</b> | <b>.6458</b>  | <b>9993.</b>  | <b>-24.57</b> |
| Stddev | .754          | .0483         | 24.           | 26.32         |
| %RSD   | 8.387         | 7.478         | .2433         | 107.2         |
| #1     | -8.124        | .6663         | 10000.        | -32.69        |
| #2     | -9.406        | .6804         | 10010.        | 4.863         |
| #3     | -9.454        | .5906         | 9966.         | -45.87        |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |
| Low Limit  |          |          |          |          |

|           |               |               |               |
|-----------|---------------|---------------|---------------|
| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2370.1</b> | <b>27714.</b> | <b>3827.6</b> |
| Stddev    | 22.1          | 555.          | 25.1          |
| %RSD      | .93453        | 2.0032        | .65666        |
| #1        | 2366.7        | 27460.        | 3833.9        |
| #2        | 2349.8        | 27330.        | 3800.0        |
| #3        | 2393.7        | 28350.        | 3849.1        |

Sample Name: CCB      Acquired: 3/4/2016 12:08:03      Type: QC  
Method: sw02152016(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    | <b>54.00</b>  | <b>-.8469</b> | <b>-.0583</b> | <b>.2376</b>  | <b>.4058</b>  | <b>-28.29</b> |
| Stddev | 96.51         | .4162         | .5617         | .3085         | .5393         | 4.67          |
| %RSD   | 178.7         | 49.14         | 963.9         | 129.8         | 132.9         | 16.50         |

|    |        |        |        |       |       |        |
|----|--------|--------|--------|-------|-------|--------|
| #1 | -10.40 | -.3699 | -.6331 | .5926 | .1737 | -24.22 |
| #2 | 7.434  | -1.035 | -.0311 | .0351 | .0213 | -27.27 |
| #3 | 165.0  | -1.136 | .4893  | .0851 | 1.022 | -33.38 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.2633</b>  | <b>.4734</b>  | <b>.3197</b>  | <b>-1.834</b> | <b>12.70</b>  | <b>14.39</b>  |
| Stddev | .1063         | .1727         | .2765         | .385          | 4.39          | 28.51         |
| %RSD   | 40.37         | 36.49         | 86.48         | 20.99         | 34.59         | 198.1         |

|    |       |       |       |        |       |        |
|----|-------|-------|-------|--------|-------|--------|
| #1 | .3856 | .3341 | .4095 | -1.437 | 17.77 | 46.45  |
| #2 | .2110 | .4194 | .5402 | -2.205 | 9.998 | -8.147 |
| #3 | .1933 | .6666 | .0095 | -1.860 | 10.33 | 4.876  |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.8586</b>  | <b>.3078</b>  | <b>65.28</b>  | <b>-.8436</b> | <b>.5012</b>  | <b>-.1325</b> |
| Stddev | 4.728         | .1393         | 72.95         | .6177         | 1.168         | 1.266         |
| %RSD   | 550.7         | 45.25         | 111.7         | 73.22         | 233.1         | 955.8         |

|    |        |       |       |        |        |        |
|----|--------|-------|-------|--------|--------|--------|
| #1 | 6.131  | .4599 | 18.61 | -.3105 | 1.374  | .5362  |
| #2 | -3.007 | .2769 | 27.90 | -.6999 | -.8261 | -1.593 |
| #3 | -.5472 | .1865 | 149.3 | -1.520 | .9553  | .6594  |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: CCB      Acquired: 3/4/2016 12:08:03      Type: QC  
Method: sw02152016(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    | <b>-1.4668</b> | <b>.0329</b>  | <b>.8070</b>  | <b>.0610</b>  | <b>1.206</b>  | <b>1.528</b>  |
| Stddev | 1.517          | 2.288         | .6758         | .2073         | .226          | 1.201         |
| %RSD   | 324.9          | 6947.         | 83.74         | 339.6         | 18.76         | 78.62         |
| #1     | 1.267          | -2.608        | .5867         | .1580         | 1.121         | 2.861         |
| #2     | -1.544         | 1.308         | 1.566         | .2020         | 1.034         | 1.194         |
| #3     | -1.124         | 1.399         | .2689         | -.1770        | 1.462         | .5292         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.327</b>  | <b>2.104</b>  | <b>.6689</b>  | <b>19.85</b>  |
| Stddev | .566          | 3.189         | .3279         | 11.29         |
| %RSD   | 42.67         | 151.6         | 49.02         | 56.84         |
| #1     | 1.051         | .1999         | 1.046         | 6.870         |
| #2     | .9518         | .3255         | .5097         | 27.31         |
| #3     | 1.978         | 5.785         | .4510         | 25.39         |

|            |          |          |          |      |
|------------|----------|----------|----------|------|
| 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       | <b>2420.7</b> | <b>28082.</b> | <b>3767.1</b> |
| Stddev    | 17.6          | 296.          | 12.7          |
| %RSD      | .72696        | 1.0556        | .33812        |
| #1        | 2403.9        | 27744.        | 3754.0        |
| #2        | 2439.0        | 28296.        | 3779.4        |
| #3        | 2419.1        | 28207.        | 3767.9        |

Sample Name: LCSSRM 460-353748/2-      Acquired: 3/4/2016 11:57:12      Type: Unk  
Method: sw02152016(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    | <b>36520.</b> | <b>458.0</b>  | <b>189.8</b>  | <b>1497.</b>  | <b>331.1</b>  | <b>31500.</b> |
| Stddev | 25.           | 2.1           | .8            | 5.            | 1.1           | 51.           |
| %RSD   | .0680         | .4507         | .4367         | .3671         | .3304         | .1606         |

|    |        |       |       |       |       |        |
|----|--------|-------|-------|-------|-------|--------|
| #1 | 36520. | 459.0 | 189.2 | 1502. | 331.5 | 31560. |
| #2 | 36550. | 455.6 | 189.4 | 1497. | 332.0 | 31460. |
| #3 | 36500. | 459.3 | 190.7 | 1491. | 329.9 | 31480. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>713.4</b>  | <b>825.0</b>  | <b>914.8</b>  | <b>511.6</b>  | <b>68280.</b> | <b>11970.</b> |
| Stddev | 2.8           | .3            | 3.3           | 1.1           | 303.          | 23.           |
| %RSD   | .3934         | .0333         | .3580         | .2142         | .4439         | .1898         |

|    |       |       |       |       |        |        |
|----|-------|-------|-------|-------|--------|--------|
| #1 | 716.1 | 825.3 | 914.4 | 512.8 | 68360. | 11950. |
| #2 | 713.8 | 824.9 | 911.8 | 511.0 | 67950. | 11990. |
| #3 | 710.5 | 824.8 | 918.3 | 510.9 | 68540. | 11980. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>12080.</b> | <b>2093.</b>  | <b>12180.</b> | <b>769.2</b>  | <b>595.6</b>  | <b>288.1</b>  |
| Stddev | 49.           | 5.            | 11.           | 1.1           | 3.1           | 1.0           |
| %RSD   | .4026         | .2352         | .0925         | .1369         | .5173         | .3474         |

|    |        |       |        |       |       |       |
|----|--------|-------|--------|-------|-------|-------|
| #1 | 12100. | 2095. | 12190. | 770.2 | 592.2 | 288.5 |
| #2 | 12020. | 2088. | 12170. | 768.1 | 598.2 | 288.9 |
| #3 | 12110. | 2097. | 12190. | 769.2 | 596.4 | 287.0 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: LCSSRM 460-353748/2-      Acquired: 3/4/2016 11:57:12      Type: Unk  
Method: sw02152016(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    | <b>700.9</b>  | <b>856.8</b>  | <b>473.9</b>  | <b>949.3</b>  | <b>639.7</b>  | <b>808.2</b>  |
| Stddev | 5.8           | 4.4           | 1.1           | 1.6           | .5            | 2.9           |
| %RSD   | .8226         | .5109         | .2267         | .1688         | .0842         | .3559         |
| #1     | 707.5         | 860.9         | 473.4         | 949.8         | 640.0         | 811.5         |
| #2     | 698.7         | 857.3         | 473.1         | 947.5         | 640.0         | 807.0         |
| #3     | 696.6         | 852.2         | 475.1         | 950.7         | 639.0         | 806.1         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>494.5</b>  | <b>421.5</b>  | <b>1892.</b>  | <b>1004.</b>  |
| Stddev | 1.2           | .5            | 5.            | 24.           |
| %RSD   | .2355         | .1243         | .2627         | 2.413         |
| #1     | 495.8         | 422.1         | 1893.         | 983.5         |
| #2     | 494.0         | 421.3         | 1887.         | 1031.         |
| #3     | 493.7         | 421.2         | 1896.         | 996.8         |

|            |          |          |          |      |
|------------|----------|----------|----------|------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | None |
| High Limit |          |          |          |      |
| Low Limit  |          |          |          |      |

| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
|-----------|---------------|---------------|---------------|
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2539.4</b> | <b>29066.</b> | <b>4026.0</b> |
| Stddev    | 15.9          | 312.          | 53.2          |
| %RSD      | .62673        | 1.0723        | 1.3207        |
| #1        | 2524.0        | 28710.        | 3965.5        |
| #2        | 2538.5        | 29290.        | 4047.5        |
| #3        | 2555.8        | 29197.        | 4065.1        |

Sample Name: 460-109556-F-8-A@20      Acquired: 3/4/2016 12:00:46      Type: Unk  
Method: sw02152016(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    | <b>209.3</b>  | <b>1.617</b>  | <b>-.0222</b> | <b>7.572</b>  | <b>-.0204</b> | <b>645.1</b>  |
| Stddev | 11.8          | .907          | .2035         | .092          | .0596         | 12.1          |
| %RSD   | 5.617         | 56.08         | 915.5         | 1.213         | 292.1         | 1.877         |
| #1     | 202.3         | 1.830         | -.1197        | 7.677         | .0074         | 633.4         |
| #2     | 202.7         | .6226         | .2116         | 7.533         | -.0889        | 657.6         |
| #3     | 222.8         | 2.398         | -.1587        | 7.506         | .0202         | 644.3         |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.5336</b> | <b>31.08</b>  | <b>23.48</b>  | <b>1.389</b>  | <b>18010.</b> | <b>71.37</b>  |
| Stddev | .0294         | .46           | 1.05          | .281          | 86.           | 32.04         |
| %RSD   | 5.503         | 1.485         | 4.455         | 20.24         | .4782         | 44.89         |
| #1     | -.5452        | 31.08         | 22.27         | 1.153         | 17910.        | 105.6         |
| #2     | -.5554        | 30.61         | 24.11         | 1.313         | 18070.        | 66.31         |
| #3     | -.5002        | 31.54         | 24.05         | 1.700         | 18040.        | 42.17         |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>58150.</b> | <b>273.6</b>  | <b>211.2</b>  | <b>694.8</b>  | <b>2.530</b>  | <b>.0575</b>  |
| Stddev | 223.          | .7            | 2.7           | 1.1           | 1.694         | .6626         |
| %RSD   | .3828         | .2707         | 1.261         | .1543         | 66.96         | 1152.         |
| #1     | 57890.        | 272.9         | 213.8         | 696.0         | 2.641         | -.6802        |
| #2     | 58290.        | 274.3         | 208.5         | 694.5         | .7829         | .6021         |
| #3     | 58270.        | 273.7         | 211.5         | 693.9         | 4.165         | .2505         |

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

Sample Name: 460-109556-F-8-A@20      Acquired: 3/4/2016 12:00:46      Type: Unk  
Method: sw02152016(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    | <b>-.3541</b> | <b>.6459</b>  | <b>1.785</b>  | <b>9.226</b>  | <b>2.640</b>  | <b>.8661</b>  |
| Stddev | 1.780         | 1.433         | .210          | .146          | .882          | .3173         |
| %RSD   | 502.8         | 221.9         | 11.79         | 1.583         | 33.40         | 36.64         |
| #1     | -1.553        | -.9635        | 1.581         | 9.199         | 2.483         | 1.225         |
| #2     | -1.201        | 1.116         | 1.773         | 9.095         | 3.590         | .7514         |
| #3     | 1.692         | 1.785         | 2.002         | 9.383         | 1.847         | .6221         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.0654</b> | <b>4.401</b>  | <b>11.75</b>  | <b>83.66</b>  |
| Stddev | .4769         | .142          | .12           | 3.15          |
| %RSD   | 729.1         | 3.228         | 1.017         | 3.762         |
| #1     | -.3090        | 4.509         | 11.72         | 86.55         |
| #2     | .4841         | 4.240         | 11.89         | 80.31         |
| #3     | -.3714        | 4.453         | 11.65         | 84.13         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2464.4</b> | <b>28140.</b> | <b>3939.7</b> |
| Stddev    | 5.3           | 249.          | 33.5          |
| %RSD      | .21638        | .88659        | .85139        |
| #1        | 2466.7        | 28413.        | 3971.9        |
| #2        | 2468.2        | 28082.        | 3905.0        |
| #3        | 2458.3        | 27925.        | 3942.3        |



Sample Name: CCVL      Acquired: 3/4/2016 12:11:56      Type: QC  
Method: sw02152016(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    | <b>224.5</b>  | <b>14.51</b>  | <b>9.414</b>  | <b>207.0</b>  | <b>2.077</b>  | <b>4989.</b>  |
| Stddev | 5.0           | 1.27          | .273          | .7            | .050          | 16.           |
| %RSD   | 2.216         | 8.732         | 2.901         | .3381         | 2.395         | .3263         |
| #1     | 227.0         | 14.10         | 9.409         | 207.2         | 2.042         | 4985.         |
| #2     | 227.6         | 15.93         | 9.689         | 206.2         | 2.134         | 4974.         |
| #3     | 218.7         | 13.50         | 9.143         | 207.5         | 2.054         | 5006.         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.314</b>  | <b>52.70</b>  | <b>10.57</b>  | <b>22.38</b>  | <b>170.0</b>  | <b>5092.</b>  |
| Stddev | .110          | .44           | .35           | .27           | 6.2           | 36.           |
| %RSD   | 2.547         | .8314         | 3.333         | 1.198         | 3.665         | .7013         |
| #1     | 4.393         | 53.19         | 10.82         | 22.12         | 176.9         | 5112.         |
| #2     | 4.189         | 52.53         | 10.71         | 22.37         | 164.8         | 5113.         |
| #3     | 4.361         | 52.37         | 10.17         | 22.66         | 168.3         | 5050.         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4787.</b>  | <b>16.28</b>  | <b>5128.</b>  | <b>42.40</b>  | <b>9.721</b>  | <b>19.72</b>  |
| Stddev | 1.            | .20           | 4.            | 1.00          | .023          | 1.34          |
| %RSD   | .0233         | 1.242         | .0800         | 2.349         | .2329         | 6.808         |
| #1     | 4787.         | 16.50         | 5128.         | 43.16         | 9.713         | 21.01         |
| #2     | 4789.         | 16.22         | 5132.         | 41.27         | 9.704         | 19.82         |
| #3     | 4787.         | 16.11         | 5124.         | 42.75         | 9.747         | 18.33         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCVL      Acquired: 3/4/2016 12:11:56      Type: QC  
Method: sw02152016(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    | 18.05         | 20.51         | 52.75         | 31.44         | 47.32         | 20.54         |
| Stddev | 3.18          | 2.17          | .28           | .16           | .42           | .26           |
| %RSD   | 17.60         | 10.60         | .5287         | .5125         | .8906         | 1.267         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 14.51 | 21.16 | 52.90 | 31.34 | 46.88 | 20.62 |
| #2 | 20.66 | 22.28 | 52.93 | 31.62 | 47.36 | 20.25 |
| #3 | 18.98 | 18.08 | 52.43 | 31.35 | 47.72 | 20.75 |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | 52.20         | 21.22         | 20.87         | F 4.142       |
| Stddev | .87           | .12           | .22           | 7.121         |
| %RSD   | 1.661         | .5736         | 1.063         | 171.9         |

|    |       |       |       |        |
|----|-------|-------|-------|--------|
| #1 | 51.71 | 21.12 | 20.72 | 9.492  |
| #2 | 53.21 | 21.36 | 21.13 | -3.941 |
| #3 | 51.70 | 21.19 | 20.76 | 6.875  |

|         |          |          |          |          |
|---------|----------|----------|----------|----------|
| 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       | 2457.5        | 28237.        | 3794.4        |
| Stddev    | 2.5           | 232.          | 44.3          |
| %RSD      | .10152        | .82268        | 1.1686        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2459.1 | 27970. | 3751.7 |
| #2 | 2454.6 | 28393. | 3791.5 |
| #3 | 2458.7 | 28348. | 3840.2 |

Sample Name: MB 460-353917/1-A      Acquired: 3/4/2016 12:31:59      Type: QC

Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000

User: admin      Custom ID1:      Custom ID2:      Custom ID3:

Comment:

|        |                 |               |               |               |               |                 |
|--------|-----------------|---------------|---------------|---------------|---------------|-----------------|
| Elem   | Al3961          | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181          |
| Line   | 396.152 { 85}   | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106}   |
| IS Ref | (Y_3710)        | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)        |
| Units  | ppb             | ppb           | ppb           | ppb           | ppb           | ppb             |
| Avg    | <b>F -2.637</b> | <b>2.964</b>  | <b>-.3426</b> | <b>-.0955</b> | <b>.1243</b>  | <b>F -57.90</b> |
| Stddev | 3.830           | 1.312         | .6303         | .1385         | .0979         | 6.59            |
| %RSD   | 145.2           | 44.28         | 184.0         | 145.0         | 78.78         | 11.37           |

|    |        |       |        |        |       |        |
|----|--------|-------|--------|--------|-------|--------|
| #1 | -2.639 | 2.082 | .3831  | -.2429 | .1111 | -64.04 |
| #2 | -6.466 | 2.337 | -.6566 | -.0754 | .0337 | -50.95 |
| #3 | 1.194  | 4.472 | -.7542 | .0318  | .2282 | -58.71 |

|            |                 |                 |                 |                 |                 |                 |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Check ?    | <b>Chk Fail</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Fail</b> |
| High Limit | <b>600000.</b>  |                 |                 |                 |                 | <b>600000.</b>  |
| Low Limit  | <b>400000.</b>  |                 |                 |                 |                 | <b>400000.</b>  |

|        |               |               |               |               |                |               |
|--------|---------------|---------------|---------------|---------------|----------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714         | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124}  | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)       | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb            | ppb           |
| Avg    | <b>.1163</b>  | <b>.2846</b>  | <b>.4604</b>  | <b>-2.375</b> | <b>F .2341</b> | <b>-17.64</b> |
| Stddev | .0246         | .3808         | .4828         | .114          | 1.858          | 36.82         |
| %RSD   | 21.14         | 133.8         | 104.9         | 4.807         | 793.8          | 208.7         |

|    |       |        |        |        |        |        |
|----|-------|--------|--------|--------|--------|--------|
| #1 | .1119 | .3166  | -.0324 | -2.474 | -1.909 | -40.46 |
| #2 | .0941 | -.1112 | .4811  | -2.250 | 1.399  | -37.29 |
| #3 | .1427 | .6483  | .9326  | -2.402 | 1.212  | 24.83  |

|            |                 |                 |                 |                 |                 |                 |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Check ?    | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Fail</b> | <b>Chk Pass</b> |
| High Limit |                 |                 |                 |                 | <b>240000.</b>  |                 |
| Low Limit  |                 |                 |                 |                 | <b>160000.</b>  |                 |

|        |                 |               |               |               |               |               |
|--------|-----------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790          | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121}   | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)        | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb             | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>F -6.616</b> | <b>.0618</b>  | <b>4.853</b>  | <b>-.7247</b> | <b>-.4169</b> | <b>.9862</b>  |
| Stddev | 4.841           | .0866         | 4.228         | .6434         | .3237         | .8922         |
| %RSD   | 73.17           | 140.1         | 87.12         | 88.78         | 77.63         | 90.47         |

|    |        |        |       |        |        |       |
|----|--------|--------|-------|--------|--------|-------|
| #1 | -9.012 | .1005  | 2.920 | -1.148 | -.5942 | .4027 |
| #2 | -9.793 | -.0374 | 1.938 | -1.042 | -.6132 | 2.013 |
| #3 | -1.044 | .1222  | 9.702 | .0157  | -.0434 | .5426 |

|            |                 |                 |                 |                 |                 |                 |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Check ?    | <b>Chk Fail</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> |
| High Limit | <b>600000.</b>  |                 |                 |                 |                 |                 |
| Low Limit  | <b>400000.</b>  |                 |                 |                 |                 |                 |

Sample Name: MB 460-353917/1-A      Acquired: 3/4/2016 12:31:59      Type: QC

Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000

User: admin      Custom ID1:      Custom ID2:      Custom ID3:

Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.9727</b> | <b>1.315</b>  | <b>.1488</b>  | <b>.9255</b>  | <b>-.0255</b> | <b>.1404</b>  |
| Stddev | 2.880         | 2.649         | .3750         | .1621         | .9172         | .1753         |
| %RSD   | 296.1         | 201.5         | 252.1         | 17.51         | 3593.         | 124.8         |

|    |        |        |        |       |        |        |
|----|--------|--------|--------|-------|--------|--------|
| #1 | -3.845 | -.2962 | .0845  | 1.110 | -.1058 | .3362  |
| #2 | -.9871 | 4.372  | .5518  | .8054 | -.8999 | -.0022 |
| #3 | 1.914  | -.1319 | -.1900 | .8612 | .9291  | .0873  |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.2398</b> | <b>.1109</b>  | <b>-.0012</b> | <b>8.646</b>  |
| Stddev | .5164         | .1118         | .1731         | 13.81         |
| %RSD   | 215.4         | 100.8         | 14620.        | 159.8         |

|    |        |       |        |        |
|----|--------|-------|--------|--------|
| #1 | .3350  | .0621 | .1489  | 8.744  |
| #2 | -.6645 | .2388 | -.1905 | 22.41  |
| #3 | -.3898 | .0319 | .0380  | -5.216 |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2408.2</b> | <b>27470.</b> | <b>3625.2</b> |
| Stddev    | 29.3          | 156.          | 69.6          |
| %RSD      | 1.2155        | .56623        | 1.9213        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2418.0 | 27368. | 3544.8 |
| #2 | 2431.3 | 27649. | 3668.3 |
| #3 | 2375.2 | 27393. | 3662.4 |

Sample Name: LCS 460-353917/2-A      Acquired: 3/4/2016 12:35:52      Type: QC

Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000

User: admin      Custom ID1:      Custom ID2:      Custom ID3:

Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | F 2071.       | F 1826.       | F 46.47       | F 1997.       | F 52.15       | F 19930.      |
| Stddev | 26.           | 5.            | .18           | 6.            | .10           | 143.          |
| %RSD   | 1.233         | .2792         | .3784         | .2858         | .1896         | .7168         |

|    |       |       |       |       |       |        |
|----|-------|-------|-------|-------|-------|--------|
| #1 | 2085. | 1827. | 46.67 | 1999. | 52.08 | 19930. |
| #2 | 2041. | 1831. | 46.41 | 1990. | 52.27 | 19780. |
| #3 | 2086. | 1820. | 46.33 | 2001. | 52.11 | 20070. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail |
| High Limit | 600000.  | 120.0    | 120.0    | 120.0    | 120.0    | 600000.  |
| Low Limit  | 400000.  | 80.00    | 80.00    | 80.00    | 80.00    | 400000.  |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | F 50.68       | F 499.8       | F 200.7       | F 237.9       | F 1007.       | F 18950.      |
| Stddev | .07           | 1.0           | .1            | .3            | 8.            | 114.          |
| %RSD   | .1367         | .1995         | .0504         | .1298         | .8349         | .6029         |

|    |       |       |       |       |       |        |
|----|-------|-------|-------|-------|-------|--------|
| #1 | 50.74 | 500.9 | 200.8 | 237.7 | 1003. | 18860. |
| #2 | 50.61 | 499.2 | 200.6 | 237.9 | 1000. | 18920. |
| #3 | 50.71 | 499.3 | 200.7 | 238.3 | 1016. | 19080. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail |
| High Limit | 120.0    | 120.0    | 120.0    | 120.0    | 240000.  | 12000.   |
| Low Limit  | 80.00    | 80.00    | 80.00    | 80.00    | 160000.  | 8000.    |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | F 18360.      | F 515.1       | F 19890.      | F 521.0       | F 461.8       | F 474.8       |
| Stddev | 77.           | 1.0           | 67.           | 1.6           | 1.3           | 1.8           |
| %RSD   | .4203         | .1966         | .3345         | .3105         | .2893         | .3878         |

|    |        |       |        |       |       |       |
|----|--------|-------|--------|-------|-------|-------|
| #1 | 18380. | 515.9 | 19810. | 521.4 | 462.0 | 473.6 |
| #2 | 18270. | 514.0 | 19940. | 519.3 | 460.3 | 473.8 |
| #3 | 18420. | 515.4 | 19920. | 522.4 | 463.0 | 476.9 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail |
| High Limit | 600000.  | 120.0    | 12000.   | 120.0    | 120.0    | 120.0    |
| Low Limit  | 400000.  | 80.00    | 8000.    | 80.00    | 80.00    | 80.00    |

Sample Name: LCS 460-353917/2-A      Acquired: 3/4/2016 12:35:52      Type: QC

Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000

User: admin      Custom ID1:      Custom ID2:      Custom ID3:

Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | F 1781.       | F 1945.       | F 508.8       | F 508.0       | F 452.2       | F 496.5       |
| Stddev | 6.            | 5.            | .3            | 2.6           | 1.7           | 1.8           |
| %RSD   | .3388         | .2596         | .0512         | .5182         | .3728         | .3621         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 1786. | 1950. | 509.1 | 505.1 | 453.7 | 498.5 |
| #2 | 1784. | 1940. | 508.6 | 508.9 | 452.4 | 495.1 |
| #3 | 1774. | 1944. | 508.8 | 510.2 | 450.4 | 495.8 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail | Chk Fail |
| High Limit | 120.0    | 120.0    | 120.0    | 120.0    | 120.0    | 120.0    |
| Low Limit  | 80.00    | 80.00    | 80.00    | 80.00    | 80.00    | 80.00    |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| 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 509.1       | F 521.9       | F 494.8       | 117.8         |
| Stddev | 1.4           | 3.6           | 1.3           | 33.3          |
| %RSD   | .2845         | .6870         | .2563         | 28.28         |

|    |       |       |       |       |
|----|-------|-------|-------|-------|
| #1 | 508.3 | 517.8 | 495.6 | 84.47 |
| #2 | 508.3 | 523.3 | 493.3 | 117.8 |
| #3 | 510.8 | 524.5 | 495.4 | 151.1 |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| Check ?    | Chk Fail | Chk Fail | Chk Fail | Chk Pass |
| High Limit | 120.0    | 120.0    | 120.0    |          |
| Low Limit  | 80.00    | 80.00    | 80.00    |          |

|           |               |               |               |
|-----------|---------------|---------------|---------------|
| 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       | 2444.9        | 27675.        | 3750.0        |
| Stddev    | 10.9          | 292.          | 74.2          |
| %RSD      | .44761        | 1.0551        | 1.9781        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2454.1 | 27378. | 3666.9 |
| #2 | 2432.8 | 27961. | 3773.6 |
| #3 | 2447.9 | 27686. | 3809.5 |

Sample Name: 460-109586-C-2-B DU      Acquired: 3/4/2016 12:39:25      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>69.63</b>  | <b>.0316</b>  | <b>-.2134</b> | <b>66.01</b>  | <b>.0232</b>  | <b>18660.</b> |
| Stddev | 3.66          | 1.007         | .0478         | .03           | .0348         | 105.          |
| %RSD   | 5.260         | 3190.         | 22.41         | .0523         | 149.6         | .5600         |
| #1     | 73.08         | .0129         | -.1591        | 65.99         | .0494         | 18750.        |
| #2     | 70.02         | -.9657        | -.2492        | 66.05         | -.0162        | 18690.        |
| #3     | 65.79         | 1.048         | -.2319        | 65.99         | .0366         | 18540.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.1189</b> | <b>-.1447</b> | <b>1.892</b>  | <b>-2.912</b> | <b>8064.</b>  | <b>5573.</b>  |
| Stddev | .0344         | .3449         | .608          | .819          | 38.           | 13.           |
| %RSD   | 28.91         | 238.4         | 32.13         | 28.13         | .4754         | .2408         |
| #1     | -.1549        | .2199         | 2.578         | -2.459        | 8108.         | 5584.         |
| #2     | -.1151        | -.1879        | 1.677         | -2.419        | 8047.         | 5577.         |
| #3     | -.0865        | -.4659        | 1.421         | -3.858        | 8037.         | 5558.         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>5832.</b>  | <b>307.1</b>  | <b>28610.</b> | <b>-2.919</b> | <b>-2.436</b> | <b>1.143</b>  |
| Stddev | 37.           | .6            | 65.           | .2715         | .587          | .771          |
| %RSD   | .6393         | .1906         | .2261         | 93.01         | 24.10         | 67.43         |
| #1     | 5867.         | 306.5         | 28660.        | -.5894        | -3.096        | .8232         |
| #2     | 5837.         | 307.1         | 28540.        | -.0576        | -1.973        | .5835         |
| #3     | 5793.         | 307.7         | 28640.        | -.2287        | -2.239        | 2.022         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109586-C-2-B DU      Acquired: 3/4/2016 12:39:25      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-3.058</b> | <b>-1.577</b> | <b>1.867</b>  | <b>1.293</b>  | <b>44.23</b>  | <b>.5284</b>  |
| Stddev | .926          | 1.543         | .268          | .132          | .15           | .0722         |
| %RSD   | 30.28         | 97.85         | 14.37         | 10.22         | .3427         | 13.66         |
| #1     | -2.000        | -5.811        | 1.911         | 1.142         | 44.06         | .4478         |
| #2     | -3.451        | -7.951        | 1.580         | 1.390         | 44.33         | .5505         |
| #3     | -3.721        | -3.354        | 2.111         | 1.345         | 44.31         | .5870         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.4338</b>  | <b>128.2</b>  | <b>1.688</b>  | <b>6626.</b>  |
| Stddev | .4668         | .4            | .172          | 70.           |
| %RSD   | 107.6         | .2994         | 10.20         | 1.060         |
| #1     | -.0393        | 128.5         | 1.544         | 6548.         |
| #2     | .8941         | 128.3         | 1.640         | 6647.         |
| #3     | .4466         | 127.7         | 1.878         | 6683.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2490.8</b> | <b>28961.</b> | <b>3845.2</b> |
| Stddev    | 9.0           | 133.          | 18.4          |
| %RSD      | .35940        | .46074        | .47935        |
| #1        | 2498.2        | 28939.        | 3858.7        |
| #2        | 2493.4        | 28840.        | 3852.6        |
| #3        | 2480.8        | 29104.        | 3824.2        |



Sample Name: sd 460-109586-C-2-A      Acquired: 3/4/2016 12:47:04      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>24.14</b>  | <b>2.566</b>  | <b>-.2561</b> | <b>12.64</b>  | <b>.0093</b>  | <b>3563.</b>  |
| Stddev | 17.54         | .393          | .6486         | .18           | .0923         | 17.           |
| %RSD   | 72.68         | 15.31         | 253.2         | 1.443         | 997.8         | .4724         |
| #1     | 41.42         | 2.181         | .4914         | 12.71         | -.0767        | 3546.         |
| #2     | 24.65         | 2.552         | -.5907        | 12.43         | -.0025        | 3563.         |
| #3     | 6.343         | 2.966         | -.6690        | 12.77         | .1069         | 3580.         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.0496</b>  | <b>.1401</b>  | <b>.4219</b>  | <b>-4.253</b> | <b>1549.</b>  | <b>1069.</b>  |
| Stddev | .1361         | .4083         | .1227         | .264          | 10.           | 22.           |
| %RSD   | 274.7         | 291.4         | 29.08         | 6.196         | .6169         | 2.049         |
| #1     | .0486         | -.2760        | .5500         | -4.228        | 1559.         | 1076.         |
| #2     | .1862         | .5401         | .4102         | -4.003        | 1547.         | 1087.         |
| #3     | -.0861        | .1562         | .3055         | -4.529        | 1540.         | 1044.         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1111.</b>  | <b>60.65</b>  | <b>5580.</b>  | <b>-.2830</b> | <b>-.5349</b> | <b>.8414</b>  |
| Stddev | 8.            | .24           | 26.           | .2934         | .4782         | 1.079         |
| %RSD   | .7231         | .3995         | .4639         | 103.6         | 89.40         | 128.2         |
| #1     | 1101.         | 60.61         | 5587.         | -.0054        | -.8796        | -.3860        |
| #2     | 1115.         | 60.42         | 5552.         | -.5899        | -.7363        | 1.639         |
| #3     | 1116.         | 60.91         | 5602.         | -.2538        | .0110         | 1.272         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: sd 460-109586-C-2-A      Acquired: 3/4/2016 12:47:04      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-4.418</b> | <b>-.9938</b> | <b>.4783</b>  | <b>.2951</b>  | <b>7.732</b>  | <b>-.0278</b> |
| Stddev | .417          | 1.320         | .3693         | .1831         | .387          | .4124         |
| %RSD   | 9.436         | 132.8         | 77.22         | 62.03         | 5.009         | 1483.         |
| #1     | -4.847        | .2243         | .5943         | .2652         | 8.102         | .0580         |
| #2     | -4.014        | -.8098        | .7757         | .4913         | 7.764         | .3349         |
| #3     | -4.393        | -2.396        | .0649         | .1289         | 7.330         | -.4763        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.5925</b>  | <b>25.53</b>  | <b>.4552</b>  | <b>1275.</b>  |
| Stddev | 1.314         | .09           | .3045         | 26.           |
| %RSD   | 221.7         | .3513         | 66.90         | 2.004         |
| #1     | .6278         | 25.52         | .2075         | 1261.         |
| #2     | 1.888         | 25.62         | .7952         | 1305.         |
| #3     | -.7385        | 25.44         | .3629         | 1260.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2507.9</b> | <b>29085.</b> | <b>3806.9</b> |
| Stddev    | 9.7           | 182.          | 34.0          |
| %RSD      | .38779        | .62431        | .89349        |
| #1        | 2513.9        | 29289.        | 3783.0        |
| #2        | 2496.7        | 29022.        | 3845.8        |
| #3        | 2513.1        | 28943.        | 3791.8        |

Sample Name: pds 460-109586-C-2-A      Acquired: 3/4/2016 12:54:37      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2134.</b>  | <b>1823.</b>  | <b>47.06</b>  | <b>2057.</b>  | <b>53.40</b>  | <b>39100.</b> |
| Stddev | 22.           | 6.            | .26           | 5.            | .05           | 275.          |
| %RSD   | 1.021         | .3276         | .5584         | .2237         | .0960         | .7030         |
| #1     | 2118.         | 1822.         | 46.93         | 2060.         | 53.36         | 38790.        |
| #2     | 2125.         | 1830.         | 46.88         | 2059.         | 53.39         | 39200.        |
| #3     | 2159.         | 1818.         | 47.36         | 2052.         | 53.46         | 39310.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>50.27</b>  | <b>499.0</b>  | <b>201.0</b>  | <b>239.5</b>  | <b>9045.</b>  | <b>24740.</b> |
| Stddev | .31           | 2.1           | 1.3           | 1.7           | 85.           | 86.           |
| %RSD   | .6123         | .4293         | .6588         | .7099         | .9373         | .3461         |
| #1     | 50.51         | 500.7         | 201.2         | 239.9         | 8950.         | 24710.        |
| #2     | 50.37         | 499.7         | 202.1         | 240.9         | 9073.         | 24670.        |
| #3     | 49.92         | 496.6         | 199.5         | 237.6         | 9113.         | 24840.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>24310.</b> | <b>820.4</b>  | <b>48200.</b> | <b>522.0</b>  | <b>455.2</b>  | <b>470.2</b>  |
| Stddev | 163.          | 2.5           | 211.          | 3.9           | 2.4           | 1.7           |
| %RSD   | .6721         | .3003         | .4373         | .7554         | .5254         | .3534         |
| #1     | 24120.        | 818.0         | 48070.        | 523.9         | 457.4         | 472.1         |
| #2     | 24400.        | 823.0         | 48090.        | 524.7         | 455.4         | 469.5         |
| #3     | 24400.        | 820.3         | 48440.        | 517.5         | 452.7         | 468.9         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: pds 460-109586-C-2-A      Acquired: 3/4/2016 12:54:37      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 1834.         | 1942.         | 513.1         | 509.5         | 498.7         | 495.1         |
| Stddev | 13.           | 5.            | 1.5           | 7.6           | .2            | .9            |
| %RSD   | .7350         | .2414         | .2900         | 1.500         | .0403         | .1894         |
| #1     | 1831.         | 1947.         | 514.6         | 513.0         | 498.6         | 496.1         |
| #2     | 1848.         | 1938.         | 513.0         | 514.8         | 498.9         | 494.9         |
| #3     | 1822.         | 1941.         | 511.6         | 500.7         | 498.6         | 494.2         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | 515.0         | 650.3         | 494.0         | 6479.         |
| Stddev | 5.2           | 1.6           | .5            | 206.          |
| %RSD   | 1.010         | .2402         | .1091         | 3.176         |
| #1     | 518.8         | 650.8         | 493.9         | 6647.         |
| #2     | 517.1         | 648.5         | 494.6         | 6540.         |
| #3     | 509.0         | 651.5         | 493.5         | 6250.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | 2418.9        | 27077.        | 3617.8        |
| Stddev    | 57.9          | 217.          | 49.9          |
| %RSD      | 2.3946        | .80257        | 1.3788        |
| #1        | 2393.3        | 27328.        | 3675.3        |
| #2        | 2378.1        | 26959.        | 3591.7        |
| #3        | 2485.2        | 26945.        | 3586.4        |

Sample Name: 460-109586-C-1-A      Acquired: 3/4/2016 12:58:08      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>53.74</b>  | <b>1.553</b>  | <b>-.0124</b> | <b>-.2535</b> | <b>.0825</b>  | <b>-67.30</b> |
| Stddev | 11.60         | 2.203         | .2546         | .1377         | .1342         | 1.65          |
| %RSD   | 21.59         | 141.8         | 2055.         | 54.32         | 162.6         | 2.449         |
| #1     | 66.85         | 1.865         | .0455         | -.2098        | .2265         | -66.38        |
| #2     | 49.55         | 3.585         | -.2910        | -.1429        | -.0391        | -69.20        |
| #3     | 44.81         | -.7889        | .2082         | -.4077        | .0602         | -66.32        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.1060</b>  | <b>.2885</b>  | <b>.2480</b>  | <b>-2.681</b> | <b>8.431</b>  | <b>36.85</b>  |
| Stddev | .1182         | .1950         | .7944         | .131          | 4.885         | 22.68         |
| %RSD   | 111.5         | 67.59         | 320.3         | 4.900         | 57.95         | 61.54         |
| #1     | -.0152        | .4799         | 1.164         | -2.694        | 8.634         | 12.04         |
| #2     | .2211         | .2954         | -.1631        | -2.543        | 13.21         | 56.50         |
| #3     | .1121         | .0901         | -.2565        | -2.805        | 3.447         | 42.01         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>-1.789</b> | <b>.1847</b>  | <b>14.93</b>  | <b>-1.067</b> | <b>.6232</b>  | <b>.9655</b>  |
| Stddev | 1.792         | .0803         | 18.03         | .882          | .7685         | 1.210         |
| %RSD   | 100.1         | 43.48         | 120.7         | 82.63         | 123.3         | 125.3         |
| #1     | .0018         | .2679         | 28.31         | -.5096        | 1.013         | 2.272         |
| #2     | -3.581        | .1783         | 22.06         | -2.084        | -.2621        | .7398         |
| #3     | -1.788        | .1078         | -5.568        | -.6084        | 1.118         | -.1153        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109586-C-1-A      Acquired: 3/4/2016 12:58:08      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-1.811</b> | <b>-1.929</b> | <b>-.2000</b> | <b>.5624</b>  | <b>3.169</b>  | <b>.2161</b>  |
| Stddev | .761          | .506          | .7248         | .2160         | .422          | .3365         |
| %RSD   | 42.02         | 26.22         | 362.4         | 38.41         | 13.32         | 155.7         |
| #1     | -1.876        | -1.432        | -1.031        | .3440         | 3.374         | -.1149        |
| #2     | -2.536        | -1.912        | .1319         | .7760         | 3.450         | .2053         |
| #3     | -1.019        | -2.443        | .2994         | .5671         | 2.684         | .5578         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.6461</b>  | <b>.0907</b>  | <b>.0999</b>  | <b>50.21</b>  |
| Stddev | .4731         | .0551         | .1617         | 8.68          |
| %RSD   | 73.21         | 60.76         | 162.0         | 17.29         |
| #1     | 1.189         | .1290         | -.0618        | 47.75         |
| #2     | .3252         | .0275         | .2617         | 59.85         |
| #3     | .4238         | .1155         | .0996         | 43.02         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2467.6</b> | <b>28079.</b> | <b>3742.0</b> |
| Stddev    | 23.2          | 125.          | 27.0          |
| %RSD      | .94095        | .44497        | .72059        |
| #1        | 2442.0        | 27941.        | 3714.0        |
| #2        | 2473.5        | 28111.        | 3744.0        |
| #3        | 2487.3        | 28185.        | 3767.8        |

Sample Name: 460-109586-C-2-A@2      Acquired: 3/4/2016 12:43:15      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>61.81</b>  | <b>.9241</b>  | <b>-.4258</b> | <b>65.96</b>  | <b>-.0168</b> | <b>18860.</b> |
| Stddev | 10.96         | 2.831         | .8334         | .26           | .0895         | 65.           |
| %RSD   | 17.73         | 306.4         | 195.7         | .3968         | 533.3         | .3453         |
| #1     | 49.33         | .0936         | .3160         | 65.66         | .0650         | 18910.        |
| #2     | 66.25         | -1.399        | -.2657        | 66.09         | -.0029        | 18790.        |
| #3     | 69.85         | 4.078         | -1.328        | 66.13         | -.1123        | 18890.        |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.1871</b> | <b>.1346</b>  | <b>1.511</b>  | <b>-3.744</b> | <b>8073.</b>  | <b>5663.</b>  |
| Stddev | .1314         | .2537         | .495          | .241          | 10.           | 20.           |
| %RSD   | 70.21         | 188.5         | 32.80         | 6.441         | .1230         | .3600         |
| #1     | -.1331        | .0627         | 1.611         | -3.968        | 8070.         | 5657.         |
| #2     | -.3369        | .4164         | .9728         | -3.489        | 8066.         | 5685.         |
| #3     | -.0914        | -.0754        | 1.948         | -3.775        | 8085.         | 5646.         |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>5809.</b>  | <b>313.0</b>  | <b>28840.</b> | <b>-.0568</b> | <b>-2.698</b> | <b>1.694</b>  |
| Stddev | 24.           | .3            | 74.           | .4587         | .168          | 1.583         |
| %RSD   | .4050         | .1059         | .2580         | 807.6         | 6.225         | 93.48         |
| #1     | 5824.         | 313.0         | 28830.        | -.3093        | -2.507        | 3.507         |
| #2     | 5782.         | 312.7         | 28780.        | .4727         | -2.821        | .5861         |
| #3     | 5821.         | 313.3         | 28920.        | -.3338        | -2.767        | .9877         |

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

Sample Name: 460-109586-C-2-A@2      Acquired: 3/4/2016 12:43:15      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.861</b> | <b>-3.623</b> | <b>1.575</b>  | <b>1.391</b>  | <b>44.24</b>  | <b>.4249</b>  |
| Stddev | 1.019         | 1.867         | .823          | .300          | .40           | .1279         |
| %RSD   | 35.62         | 51.54         | 52.26         | 21.55         | .9018         | 30.11         |
| #1     | -3.504        | -1.908        | 2.175         | 1.534         | 43.78         | .5703         |
| #2     | -3.392        | -5.612        | .6366         | 1.591         | 44.42         | .3295         |
| #3     | -1.686        | -3.349        | 1.912         | 1.046         | 44.52         | .3750         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.911</b>  | <b>129.0</b>  | <b>1.853</b>  | <b>6602.</b>  |
| Stddev | .371          | .5            | .060          | 89.           |
| %RSD   | 19.39         | .3878         | 3.245         | 1.353         |
| #1     | 2.154         | 128.4         | 1.787         | 6669.         |
| #2     | 1.485         | 129.3         | 1.867         | 6636.         |
| #3     | 2.094         | 129.4         | 1.904         | 6500.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2399.3</b> | <b>27404.</b> | <b>3547.8</b> |
| Stddev    | 43.5          | 247.          | 13.7          |
| %RSD      | 1.8124        | .89977        | .38746        |
| #1        | 2368.6        | 27128.        | 3538.9        |
| #2        | 2380.3        | 27602.        | 3540.8        |
| #3        | 2449.1        | 27481.        | 3563.6        |



Sample Name: 460-109586-C-3-A@2      Acquired: 3/4/2016 13:02:03      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 109.3         | 10.92         | -.5275        | 73.34         | .0194         | 48910.        |
| Stddev | 17.1          | 1.65          | .3415         | .13           | .0505         | 133.          |
| %RSD   | 15.66         | 15.09         | 64.75         | .1834         | 260.3         | .2708         |

|    |       |       |        |       |        |        |
|----|-------|-------|--------|-------|--------|--------|
| #1 | 104.1 | 12.44 | -.6886 | 73.23 | .0148  | 49060. |
| #2 | 95.43 | 11.14 | -.1352 | 73.49 | -.0287 | 48870. |
| #3 | 128.5 | 9.168 | -.7588 | 73.31 | .0721  | 48800. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | -.5897        | -.3977        | .7680         | -3.204        | 33720.        | 5824.         |
| Stddev | .1806         | .0376         | .5593         | .030          | 146.          | 37.           |
| %RSD   | 30.63         | 9.464         | 72.83         | .9528         | .4329         | .6410         |

|    |        |        |       |        |        |       |
|----|--------|--------|-------|--------|--------|-------|
| #1 | -.4833 | -.4279 | .2043 | -3.200 | 33890. | 5817. |
| #2 | -.4875 | -.3555 | .7769 | -3.176 | 33640. | 5791. |
| #3 | -.7983 | -.4096 | 1.323 | -3.236 | 33640. | 5865. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 7714.         | 295.9         | 171200.       | .0110         | -2.273        | -.9474        |
| Stddev | 31.           | .8            | 851.          | .2168         | .657          | 1.162         |
| %RSD   | .3956         | .2856         | .4974         | 1977.         | 28.89         | 122.6         |

|    |       |       |         |        |        |        |
|----|-------|-------|---------|--------|--------|--------|
| #1 | 7747. | 296.9 | 172000. | -.0620 | -1.809 | -.6610 |
| #2 | 7708. | 295.5 | 171200. | .2548  | -1.985 | .0443  |
| #3 | 7687. | 295.4 | 170300. | -.1599 | -3.024 | -2.226 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109586-C-3-A@2      Acquired: 3/4/2016 13:02:03      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | -1.263        | -.5475        | 1.106         | .8052         | 111.8         | .0829         |
| Stddev | 2.542         | .4567         | .355          | .0469         | .8            | .0790         |
| %RSD   | 201.3         | 83.41         | 32.15         | 5.827         | .6762         | 95.29         |
| #1     | 1.659         | -.0311        | 1.500         | .8183         | 110.9         | .0155         |
| #2     | -2.476        | -.8981        | .8096         | .7531         | 112.1         | .0634         |
| #3     | -2.971        | -.7134        | 1.007         | .8442         | 112.3         | .1699         |

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

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | .0521         | 356.0         | 2.063         | 7013.         |
| Stddev | 1.396         | 1.8           | .230          | 255.          |
| %RSD   | 2680.         | .4942         | 11.15         | 3.642         |
| #1     | -1.094        | 358.0         | 2.329         | 7209.         |
| #2     | -.3562        | 354.7         | 1.933         | 6724.         |
| #3     | 1.607         | 355.4         | 1.927         | 7107.         |

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       | 2481.1        | 28772.        | 3787.2        |
| Stddev    | 47.2          | 410.          | 137.6         |
| %RSD      | 1.9029        | 1.4267        | 3.6345        |
| #1        | 2426.8        | 28302.        | 3777.6        |
| #2        | 2504.1        | 28952.        | 3654.5        |
| #3        | 2512.3        | 29061.        | 3929.3        |

Sample Name: CCB      Acquired: 3/4/2016 13:13:10      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>12.48</b>  | <b>2.151</b>  | <b>-.4906</b> | <b>.0003</b>  | <b>.1983</b>  | <b>-77.12</b> |
| Stddev | 10.90         | 1.609         | .1718         | .0733         | .1034         | .93           |
| %RSD   | 87.39         | 74.79         | 35.02         | 29160.        | 52.16         | 1.206         |
| #1     | 23.57         | 2.272         | -.5145        | -.0832        | .1419         | -77.98        |
| #2     | 12.09         | .4853         | -.3081        | .0295         | .3176         | -77.25        |
| #3     | 1.772         | 3.696         | -.6492        | .0544         | .1353         | -76.13        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.0274</b>  | <b>.5533</b>  | <b>.7722</b>  | <b>-3.516</b> | <b>8.377</b>  | <b>-46.89</b> |
| Stddev | .0608         | .1201         | .6119         | .663          | 6.388         | 17.36         |
| %RSD   | 221.7         | 21.71         | 79.24         | 18.85         | 76.26         | 37.03         |
| #1     | -.0414        | .4553         | .0659         | -2.755        | 6.228         | -32.76        |
| #2     | .0739         | .6873         | 1.141         | -3.831        | 3.340         | -41.63        |
| #3     | .0497         | .5173         | 1.110         | -3.962        | 15.56         | -66.27        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.0123</b> | <b>.2417</b>  | <b>18.95</b>  | <b>-.8508</b> | <b>.0374</b>  | <b>-.1809</b> |
| Stddev | 8.749         | .1334         | 9.69          | .3497         | 1.197         | .5313         |
| %RSD   | 70940.        | 55.21         | 51.16         | 41.10         | 3195.         | 293.7         |
| #1     | 7.582         | .3278         | 27.90         | -.4497        | -1.079        | .0650         |
| #2     | 1.960         | .0880         | 20.29         | -1.012        | 1.301         | .1829         |
| #3     | -9.579        | .3094         | 8.649         | -1.091        | -1.1094       | -.7906        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: CCB      Acquired: 3/4/2016 13:13:10      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-1.495</b> | <b>-.5450</b> | <b>-.0231</b> | <b>.1050</b>  | <b>1.519</b>  | <b>1.071</b>  |
| Stddev | 1.315         | .7321         | .2366         | .1577         | 1.106         | .850          |
| %RSD   | 87.99         | 134.3         | 1025.         | 150.1         | 72.78         | 79.33         |
| #1     | -2.945        | -1.033        | .0036         | -.0219        | 2.731         | 1.914         |
| #2     | -1.160        | .2967         | .1991         | .2815         | 1.259         | 1.084         |
| #3     | -.3796        | -.8985        | -.2719        | .0554         | .5665         | .2149         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.3635</b>  | <b>.2820</b>  | <b>.7565</b>  | <b>3.835</b>  |
| Stddev | .4852         | .0405         | .0258         | 26.37         |
| %RSD   | 133.5         | 14.35         | 3.414         | 687.7         |
| #1     | .7910         | .2499         | .7499         | 31.52         |
| #2     | .4635         | .3274         | .7851         | -20.99        |
| #3     | -.1638        | .2687         | .7347         | .9766         |

|            |          |          |          |      |
|------------|----------|----------|----------|------|
| 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       | <b>2402.4</b> | <b>27157.</b> | <b>3522.3</b> |
| Stddev    | 31.9          | 404.          | 67.8          |
| %RSD      | 1.3267        | 1.4884        | 1.9248        |
| #1        | 2402.2        | 26691.        | 3476.2        |
| #2        | 2370.7        | 27411.        | 3600.2        |
| #3        | 2434.4        | 27370.        | 3490.6        |

Sample Name: 460-109586-C-2-C MS      Acquired: 3/4/2016 12:50:57      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1163.</b>  | <b>948.5</b>  | <b>23.96</b>  | <b>1111.</b>  | <b>27.97</b>  | <b>29820.</b> |
| Stddev | 4.            | 10.0          | .35           | 3.            | .04           | 336.          |
| %RSD   | .3676         | 1.056         | 1.458         | .2438         | .1502         | 1.126         |
| #1     | 1159.         | 942.1         | 24.34         | 1111.         | 27.98         | 29510.        |
| #2     | 1167.         | 943.3         | 23.65         | 1114.         | 28.01         | 29760.        |
| #3     | 1163.         | 960.0         | 23.90         | 1108.         | 27.93         | 30180.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>26.16</b>  | <b>262.0</b>  | <b>104.1</b>  | <b>123.9</b>  | <b>8940.</b>  | <b>15890.</b> |
| Stddev | .17           | .8            | .8            | .6            | 103.          | 111.          |
| %RSD   | .6353         | .3157         | .8018         | .4921         | 1.147         | .6986         |
| #1     | 26.00         | 261.6         | 103.2         | 124.1         | 8838.         | 15810.        |
| #2     | 26.16         | 261.5         | 104.8         | 123.2         | 8938.         | 16020.        |
| #3     | 26.33         | 263.0         | 104.3         | 124.4         | 9043.         | 15840.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>15360.</b> | <b>587.2</b>  | <b>40600.</b> | <b>273.7</b>  | <b>230.8</b>  | <b>250.7</b>  |
| Stddev | 142.          | 3.8           | 28.           | .2            | 2.3           | 1.7           |
| %RSD   | .9239         | .6528         | .0699         | .0811         | .9938         | .6836         |
| #1     | 15260.        | 583.9         | 40620.        | 273.8         | 228.5         | 251.7         |
| #2     | 15300.        | 586.3         | 40610.        | 273.4         | 231.0         | 248.7         |
| #3     | 15520.        | 591.5         | 40570.        | 273.8         | 233.0         | 251.6         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109586-C-2-C MS      Acquired: 3/4/2016 12:50:57      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>931.3</b>  | <b>1010.</b>  | <b>266.2</b>  | <b>261.5</b>  | <b>281.0</b>  | <b>258.5</b>  |
| Stddev | 8.8           | 2.            | 3.4           | 3.2           | 1.6           | .7            |
| %RSD   | .9419         | .2276         | 1.276         | 1.242         | .5602         | .2652         |
| #1     | 927.2         | 1012.         | 264.1         | 259.6         | 280.1         | 257.7         |
| #2     | 925.3         | 1008.         | 264.3         | 259.7         | 280.0         | 258.7         |
| #3     | 941.4         | 1011.         | 270.1         | 265.3         | 282.8         | 259.0         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>267.8</b>  | <b>409.8</b>  | <b>256.4</b>  | <b>7018.</b>  |
| Stddev | 1.3           | 1.3           | .9            | 84.           |
| %RSD   | .4872         | .3181         | .3346         | 1.195         |
| #1     | 266.9         | 409.9         | 255.8         | 6996.         |
| #2     | 267.2         | 411.1         | 256.1         | 6947.         |
| #3     | 269.3         | 408.5         | 257.4         | 7111.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2469.2</b> | <b>28473.</b> | <b>3786.4</b> |
| Stddev    | 19.9          | 368.          | 7.1           |
| %RSD      | .80569        | 1.2925        | .18839        |
| #1        | 2470.2        | 28612.        | 3788.4        |
| #2        | 2488.6        | 28752.        | 3778.5        |
| #3        | 2448.8        | 28056.        | 3792.3        |

Sample Name: 460-109586-C-4-A@2      Acquired: 3/4/2016 13:05:52      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>163.1</b>  | <b>4.867</b>  | <b>-.3923</b> | <b>100.6</b>  | <b>-.0426</b> | <b>72600.</b> |
| Stddev | 6.8           | .902          | .3004         | .2            | .0578         | 682.          |
| %RSD   | 4.153         | 18.54         | 76.56         | .2134         | 135.7         | .9386         |
| #1     | 163.7         | 5.264         | -.7391        | 100.4         | -.0784        | 71830.        |
| #2     | 156.1         | 3.834         | -.2256        | 100.7         | .0241         | 72850.        |
| #3     | 169.6         | 5.502         | -.2123        | 100.8         | -.0735        | 73130.        |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.9383</b> | <b>-.9209</b> | <b>.3121</b>  | <b>-1.990</b> | <b>44620.</b> | <b>5484.</b>  |
| Stddev | .0648         | .2766         | .2956         | .689          | 437.          | 26.           |
| %RSD   | 6.909         | 30.04         | 94.72         | 34.63         | .9791         | .4819         |
| #1     | -1.012        | -1.207        | .6147         | -2.779        | 44140.        | 5513.         |
| #2     | -.8892        | -.9018        | .0240         | -1.689        | 44720.        | 5478.         |
| #3     | -.9139        | -.6543        | .2976         | -1.503        | 44990.        | 5461.         |

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

|        |               |               |                |               |               |               |
|--------|---------------|---------------|----------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895         | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57}  | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)       | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb            | ppb           | ppb           | ppb           |
| Avg    | <b>10420.</b> | <b>831.7</b>  | <b>145300.</b> | <b>1.089</b>  | <b>-.7335</b> | <b>-.7676</b> |
| Stddev | 119.          | 5.3           | 496.           | .294          | .8952         | 2.010         |
| %RSD   | 1.140         | .6324         | .3416          | 27.02         | 122.0         | 261.8         |
| #1     | 10290.        | 826.9         | 145900.        | .7592         | -1.285        | -1.449        |
| #2     | 10450.        | 830.9         | 145000.        | 1.325         | .2993         | -2.348        |
| #3     | 10520.        | 837.3         | 145000.        | 1.184         | -1.215        | 1.494         |

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

Sample Name: 460-109586-C-4-A@2      Acquired: 3/4/2016 13:05:52      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.397</b> | <b>.7825</b>  | <b>1.178</b>  | <b>1.750</b>  | <b>369.7</b>  | <b>.0840</b>  |
| Stddev | 3.167         | 1.815         | .238          | .117          | 1.8           | .4069         |
| %RSD   | 132.1         | 232.0         | 20.25         | 6.693         | .4886         | 484.1         |
| #1     | 1.057         | .6285         | .9690         | 1.616         | 368.6         | .4343         |
| #2     | -3.083        | -.9507        | 1.438         | 1.803         | 368.7         | -.3622        |
| #3     | -5.166        | 2.670         | 1.127         | 1.831         | 371.8         | .1800         |

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

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.0920</b>  | <b>379.3</b>  | <b>2.463</b>  | <b>5850.</b>  |
| Stddev | 1.114         | 1.9           | .108          | 81.           |
| %RSD   | 1211.         | .5116         | 4.365         | 1.391         |
| #1     | -.8423        | 381.4         | 2.439         | 5838.         |
| #2     | 1.325         | 378.8         | 2.580         | 5937.         |
| #3     | -.2070        | 377.6         | 2.369         | 5776.         |

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       | <b>2476.5</b> | <b>28300.</b> | <b>3839.1</b> |
| Stddev    | 9.9           | 332.          | 46.0          |
| %RSD      | .39925        | 1.1746        | 1.1980        |
| #1        | 2473.4        | 28682.        | 3856.7        |
| #2        | 2468.5        | 28136.        | 3873.7        |
| #3        | 2487.5        | 28081.        | 3786.9        |



Sample Name: 460-109586-C-7-A@2      Acquired: 3/4/2016 13:28:45      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>53.58</b>  | <b>.5615</b>  | <b>-.4980</b> | <b>17.45</b>  | <b>-.0597</b> | <b>23590.</b> |
| Stddev | 15.64         | 1.681         | .7121         | .16           | .0964         | 140.          |
| %RSD   | 29.19         | 299.3         | 143.0         | .9089         | 161.3         | .5926         |
| #1     | 62.27         | -.0113        | .1956         | 17.29         | -.0896        | 23500.        |
| #2     | 35.53         | 2.454         | -1.227        | 17.45         | -.1377        | 23520.        |
| #3     | 62.95         | -.7578        | -.4623        | 17.61         | .0480         | 23750.        |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.3162</b> | <b>1.570</b>  | <b>.7630</b>  | <b>-3.319</b> | <b>11700.</b> | <b>808.8</b>  |
| Stddev | .0967         | .124          | .5485         | .539          | 74.           | 10.1          |
| %RSD   | 30.57         | 7.905         | 71.90         | 16.25         | .6327         | 1.252         |
| #1     | -.4276        | 1.690         | .1336         | -2.821        | 11630.        | 802.1         |
| #2     | -.2541        | 1.442         | 1.140         | -3.244        | 11690.        | 803.9         |
| #3     | -.2669        | 1.577         | 1.016         | -3.891        | 11780.        | 820.5         |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2629.</b>  | <b>140.9</b>  | <b>30270.</b> | <b>8.923</b>  | <b>-.9158</b> | <b>1.485</b>  |
| Stddev | 20.           | 1.7           | 191.          | .631          | 2.267         | 1.118         |
| %RSD   | .7613         | 1.203         | .6295         | 7.069         | 247.5         | 75.27         |
| #1     | 2611.         | 139.5         | 30070.        | 8.394         | 1.583         | 2.084         |
| #2     | 2626.         | 140.5         | 30290.        | 9.621         | -1.492        | .1954         |
| #3     | 2650.         | 142.8         | 30450.        | 8.754         | -2.839        | 2.176         |

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

Sample Name: 460-109586-C-7-A@2      Acquired: 3/4/2016 13:28:45      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-1.373</b> | <b>-3.588</b> | <b>.7987</b>  | <b>.7268</b>  | <b>134.9</b>  | <b>.2805</b>  |
| Stddev | 2.647         | 2.457         | .6880         | .1997         | 2.4           | .2356         |
| %RSD   | 192.8         | 68.48         | 86.14         | 27.47         | 1.801         | 84.02         |
| #1     | -2.224        | -1.020        | .8954         | .5241         | 132.4         | .5406         |
| #2     | -3.489        | -5.917        | .0675         | .9233         | 135.0         | .2195         |
| #3     | 1.595         | -3.828        | 1.433         | .7331         | 137.2         | .0813         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.013</b>  | <b>114.4</b>  | <b>1.772</b>  | <b>3481.</b>  |
| Stddev | .613          | 1.3           | .178          | 12.           |
| %RSD   | 60.54         | 1.164         | 10.06         | .3456         |
| #1     | .8973         | 112.9         | 1.872         | 3468.         |
| #2     | .4660         | 114.7         | 1.566         | 3493.         |
| #3     | 1.676         | 115.5         | 1.877         | 3481.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2416.1</b> | <b>27875.</b> | <b>3660.3</b> |
| Stddev    | 46.4          | 308.          | 53.7          |
| %RSD      | 1.9224        | 1.1047        | 1.4660        |
| #1        | 2385.0        | 27553.        | 3628.1        |
| #2        | 2393.9        | 27905.        | 3630.6        |
| #3        | 2469.5        | 28167.        | 3722.3        |

Sample Name: CCV      Acquired: 3/4/2016 13:09:41      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 128400.       | 2397.         | 1209.         | 10290.        | 1048.         | 128100.       |
| Stddev | 348.          | 6.            | 2.            | 21.           | 3.            | 269.          |
| %RSD   | .2714         | .2525         | .1983         | .2045         | .3242         | .2098         |

|    |         |       |       |        |       |         |
|----|---------|-------|-------|--------|-------|---------|
| #1 | 128700. | 2392. | 1209. | 10290. | 1052. | 127800. |
| #2 | 128400. | 2395. | 1207. | 10280. | 1047. | 128300. |
| #3 | 128000. | 2404. | 1212. | 10320. | 1045. | 128200. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 1286.         | 2527.         | 4857.         | 12550.        | 99300.        | 52590.        |
| Stddev | 4.            | 9.            | 7.            | 28.           | 202.          | 199.          |
| %RSD   | .3082         | .3535         | .1464         | .2227         | .2031         | .3788         |

|    |       |       |       |        |        |        |
|----|-------|-------|-------|--------|--------|--------|
| #1 | 1285. | 2526. | 4848. | 12580. | 99070. | 52580. |
| #2 | 1283. | 2519. | 4859. | 12520. | 99390. | 52800. |
| #3 | 1291. | 2537. | 4862. | 12550. | 99440. | 52400. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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.       | 5170.         | 127400.       | 2606.         | 7331.         | 1005.         |
| Stddev | 366.          | 14.           | 328.          | 8.            | 18.           | 5.            |
| %RSD   | .3046         | .2798         | .2572         | .3187         | .2492         | .5110         |

|    |         |       |         |       |       |       |
|----|---------|-------|---------|-------|-------|-------|
| #1 | 119700. | 5156. | 127700. | 2603. | 7335. | 1002. |
| #2 | 120200. | 5169. | 127600. | 2600. | 7311. | 1003. |
| #3 | 120400. | 5185. | 127100. | 2616. | 7347. | 1011. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCV      Acquired: 3/4/2016 13:09:41      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 2435.         | 2497.         | 2536.         | 2537.         | 961.0         | 2550.         |
| Stddev | 13.           | 6.            | 5.            | 16.           | 3.8           | 8.            |
| %RSD   | .5305         | .2208         | .1806         | .6350         | .3968         | .2974         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 2431. | 2493. | 2534. | 2532. | 961.5 | 2546. |
| #2 | 2426. | 2494. | 2532. | 2524. | 956.9 | 2546. |
| #3 | 2450. | 2503. | 2541. | 2555. | 964.5 | 2559. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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.         | 5356.         | 9960.         | 9995.         |
| Stddev | 3.            | 20.           | 9.            | 109.          |
| %RSD   | .2803         | .3793         | .0924         | 1.089         |

|    |       |       |       |        |
|----|-------|-------|-------|--------|
| #1 | 1032. | 5373. | 9962. | 10030. |
| #2 | 1032. | 5361. | 9950. | 9873.  |
| #3 | 1037. | 5333. | 9968. | 10080. |

|         |          |          |          |      |
|---------|----------|----------|----------|------|
| 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       | 2376.5        | 27605.        | 3775.2        |
| Stddev    | 28.5          | 324.          | 19.3          |
| %RSD      | 1.2000        | 1.1721        | .51174        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2394.9 | 27955. | 3796.9 |
| #2 | 2390.9 | 27544. | 3769.0 |
| #3 | 2343.6 | 27316. | 3759.8 |

Sample Name: 460-109586-D-2-B DU      Acquired: 3/4/2016 13:40:05      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>53.61</b>  | <b>.6526</b>  | <b>-.4865</b> | <b>66.34</b>  | <b>.1496</b>  | <b>19290.</b> |
| Stddev | 8.89          | 2.796         | .3060         | .20           | .0458         | 217.          |
| %RSD   | 16.59         | 428.4         | 62.89         | .2979         | 30.60         | 1.123         |
| #1     | 52.50         | -1.023        | -.2277        | 66.14         | .1744         | 19530.        |
| #2     | 63.00         | 3.880         | -.4075        | 66.34         | .0968         | 19140.        |
| #3     | 45.32         | -.8995        | -.8242        | 66.54         | .1776         | 19190.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.1919</b> | <b>-.2692</b> | <b>1.581</b>  | <b>-2.324</b> | <b>8527.</b>  | <b>5587.</b>  |
| Stddev | .1447         | .4108         | .445          | .556          | 80.           | 45.           |
| %RSD   | 75.41         | 152.6         | 28.18         | 23.91         | .9397         | .8139         |
| #1     | -.3554        | .0910         | 1.290         | -1.883        | 8619.         | 5601.         |
| #2     | -.1400        | -.7166        | 2.093         | -2.141        | 8478.         | 5623.         |
| #3     | -.0803        | -.1820        | 1.358         | -2.948        | 8483.         | 5535.         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>5993.</b>  | <b>323.4</b>  | <b>29120.</b> | <b>.1893</b>  | <b>-1.353</b> | <b>1.154</b>  |
| Stddev | 60.           | 1.4           | 67.           | .7015         | .223          | 1.463         |
| %RSD   | 1.001         | .4205         | .2316         | 370.5         | 16.46         | 126.8         |
| #1     | 6062.         | 324.7         | 29080.        | .4449         | -1.209        | -.2820        |
| #2     | 5955.         | 322.0         | 29200.        | -.6041        | -1.609        | 1.101         |
| #3     | 5962.         | 323.5         | 29080.        | .7271         | -1.240        | 2.642         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109586-D-2-B DU      Acquired: 3/4/2016 13:40:05      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.0655</b> | <b>-4.561</b> | <b>2.194</b>  | <b>2.411</b>  | <b>45.34</b>  | <b>.4426</b>  |
| Stddev | 3.589         | 1.512         | .145          | .231          | .59           | .2301         |
| %RSD   | 5482.         | 33.16         | 6.625         | 9.585         | 1.297         | 51.99         |
| #1     | -2.411        | -2.928        | 2.256         | 2.631         | 45.55         | .5010         |
| #2     | -1.851        | -4.841        | 2.028         | 2.432         | 45.80         | .1889         |
| #3     | 4.067         | -5.914        | 2.298         | 2.170         | 44.68         | .6380         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.9074</b>  | <b>128.7</b>  | <b>2.840</b>  | <b>6618.</b>  |
| Stddev | 1.125         | .3            | .030          | 90.           |
| %RSD   | 124.0         | .2246         | 1.061         | 1.353         |
| #1     | 1.901         | 128.4         | 2.806         | 6526.         |
| #2     | 1.136         | 128.7         | 2.864         | 6705.         |
| #3     | -.3145        | 129.0         | 2.850         | 6624.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2326.0</b> | <b>26537.</b> | <b>3476.3</b> |
| Stddev    | 8.3           | 493.          | 39.2          |
| %RSD      | .35681        | 1.8586        | 1.1267        |
| #1        | 2318.5        | 26031.        | 3441.3        |
| #2        | 2324.6        | 27017.        | 3518.6        |
| #3        | 2334.9        | 26562.        | 3468.9        |

Sample Name: CCVL      Acquired: 3/4/2016 13:17:07      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>246.5</b>  | <b>16.68</b>  | <b>9.297</b>  | <b>211.5</b>  | <b>2.308</b>  | <b>5130.</b>  |
| Stddev | 20.0          | 2.78          | .234          | .2            | .044          | 66.           |
| %RSD   | 8.105         | 16.67         | 2.517         | .1166         | 1.908         | 1.279         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 232.8 | 19.19 | 9.551 | 211.2 | 2.358 | 5062. |
| #2 | 269.4 | 13.69 | 9.091 | 211.7 | 2.276 | 5193. |
| #3 | 237.2 | 17.15 | 9.250 | 211.6 | 2.291 | 5134. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4.275</b>  | <b>53.40</b>  | <b>10.36</b>  | <b>21.24</b>  | <b>170.2</b>  | <b>5307.</b>  |
| Stddev | .118          | .19           | .66           | .41           | 7.0           | 35.           |
| %RSD   | 2.755         | .3561         | 6.414         | 1.914         | 4.094         | .6507         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 4.381 | 53.57 | 9.657 | 21.07 | 169.8 | 5295. |
| #2 | 4.148 | 53.19 | 10.46 | 20.94 | 177.4 | 5346. |
| #3 | 4.297 | 53.45 | 10.98 | 21.70 | 163.5 | 5280. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4779.</b>  | <b>16.75</b>  | <b>5213.</b>  | <b>43.58</b>  | <b>11.42</b>  | <b>21.11</b>  |
| Stddev | 58.           | .15           | 26.           | .37           | 2.03          | 1.62          |
| %RSD   | 1.207         | .8947         | .4991         | .8404         | 17.75         | 7.660         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 4718. | 16.58 | 5217. | 43.86 | 13.63 | 22.98 |
| #2 | 4833. | 16.86 | 5237. | 43.17 | 9.647 | 20.28 |
| #3 | 4785. | 16.80 | 5185. | 43.72 | 10.98 | 20.09 |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCVL      Acquired: 3/4/2016 13:17:07      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 15.73         | 20.06         | 52.88         | 32.54         | 46.72         | 20.94         |
| Stddev | 2.05          | 1.93          | .84           | .36           | .34           | .01           |
| %RSD   | 13.02         | 9.640         | 1.598         | 1.121         | .7297         | .0613         |
| #1     | 14.42         | 18.34         | 53.33         | 32.17         | 47.00         | 20.95         |
| #2     | 18.09         | 19.69         | 53.41         | 32.90         | 46.34         | 20.92         |
| #3     | 14.68         | 22.15         | 51.91         | 32.54         | 46.81         | 20.94         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | 53.26         | 22.23         | 21.01         | F 14.12       |
| Stddev | 1.13          | .16           | .23           | 31.71         |
| %RSD   | 2.116         | .7138         | 1.116         | 224.6         |
| #1     | 53.62         | 22.34         | 20.83         | 2.379         |
| #2     | 54.16         | 22.05         | 20.92         | 50.03         |
| #3     | 52.00         | 22.31         | 21.27         | -10.05        |

|         |          |          |          |          |
|---------|----------|----------|----------|----------|
| 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       | 2366.8        | 27409.        | 3527.8        |
| Stddev    | 40.4          | 1082.         | 173.6         |
| %RSD      | 1.7064        | 3.9477        | 4.9209        |
| #1        | 2354.8        | 28327.        | 3631.1        |
| #2        | 2333.8        | 26216.        | 3327.4        |
| #3        | 2411.8        | 27684.        | 3624.9        |



Sample Name: 460-109586-C-5-A@2      Acquired: 3/4/2016 13:20:58      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>62.08</b>  | <b>-1.793</b> | <b>-.2148</b> | <b>3.514</b>  | <b>.0926</b>  | <b>881.9</b>  |
| Stddev | 9.12          | 2.768         | .4293         | .052          | .0791         | 13.4          |
| %RSD   | 14.69         | 1544.         | 199.9         | 1.478         | 85.37         | 1.517         |
| #1     | 52.71         | .7504         | -.2385        | 3.569         | .0275         | 867.7         |
| #2     | 70.94         | -3.293        | .2259         | 3.506         | .1806         | 883.9         |
| #3     | 62.60         | 2.005         | -.6317        | 3.467         | .0697         | 894.3         |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.1339</b>  | <b>.6094</b>  | <b>1.313</b>  | <b>12.83</b>  | <b>324.3</b>  | <b>818.1</b>  |
| Stddev | .0449         | .2546         | .543          | .61           | 11.5          | 37.6          |
| %RSD   | 33.49         | 41.77         | 41.37         | 4.732         | 3.542         | 4.597         |
| #1     | .1606         | .6449         | 1.503         | 12.19         | 333.7         | 797.8         |
| #2     | .0822         | .3390         | 1.736         | 12.89         | 327.7         | 861.5         |
| #3     | .1590         | .8444         | .7005         | 13.40         | 311.5         | 795.0         |

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    | <b>244.3</b>  | <b>9.462</b>  | <b>12360.</b> | <b>2.268</b>  | <b>-.9133</b> | <b>1.332</b>  |
| Stddev | 2.8           | .062          | 50.           | .320          | 2.122         | .769          |
| %RSD   | 1.165         | .6506         | .4011         | 14.10         | 232.3         | 57.73         |
| #1     | 241.7         | 9.402         | 12410.        | 2.326         | .0117         | .4464         |
| #2     | 244.0         | 9.525         | 12350.        | 2.555         | -3.340        | 1.722         |
| #3     | 247.3         | 9.460         | 12310.        | 1.923         | .5889         | 1.828         |

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

Sample Name: 460-109586-C-5-A@2      Acquired: 3/4/2016 13:20:58      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-1.913</b> | <b>-3.201</b> | <b>.5630</b>  | <b>102.5</b>  | <b>25.56</b>  | <b>.4575</b>  |
| Stddev | 1.513         | .553          | .4353         | .3            | .53           | .1833         |
| %RSD   | 79.11         | 17.27         | 77.32         | .2441         | 2.068         | 40.06         |
| #1     | -2.248        | -3.128        | .9757         | 102.2         | 25.14         | .6672         |
| #2     | -3.230        | -2.689        | .6051         | 102.5         | 26.15         | .3282         |
| #3     | -.2601        | -3.787        | .1082         | 102.7         | 25.37         | .3771         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.0035</b>  | <b>10.64</b>  | <b>2.055</b>  | <b>2732.</b>  |
| Stddev | .3906         | .21           | .088          | 10.           |
| %RSD   | 11030.        | 1.935         | 4.263         | .3638         |
| #1     | -.4083        | 10.70         | 2.153         | 2743.         |
| #2     | .3688         | 10.41         | 2.026         | 2730.         |
| #3     | .0502         | 10.81         | 1.985         | 2723.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2475.4</b> | <b>28563.</b> | <b>3809.2</b> |
| Stddev    | 6.5           | 438.          | 33.0          |
| %RSD      | .26394        | 1.5321        | .86606        |
| #1        | 2482.5        | 28956.        | 3847.2        |
| #2        | 2474.1        | 28640.        | 3792.6        |
| #3        | 2469.6        | 28092.        | 3787.8        |

Sample Name: 460-109586-D-2-C MS      Acquired: 3/4/2016 13:51:37      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 1137.         | 935.4         | 22.71         | 1099.         | 27.55         | 29340.        |
| Stddev | 20.           | 17.7          | .81           | 20.           | .57           | 388.          |
| %RSD   | 1.716         | 1.892         | 3.545         | 1.815         | 2.055         | 1.321         |
| #1     | 1122.         | 918.9         | 22.56         | 1080.         | 27.02         | 29240.        |
| #2     | 1129.         | 933.4         | 22.00         | 1097.         | 27.48         | 29010.        |
| #3     | 1159.         | 954.1         | 23.59         | 1120.         | 28.15         | 29770.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 25.91         | 259.2         | 101.7         | 121.9         | 9009.         | 15590.        |
| Stddev | .26           | 3.7           | 2.0           | 2.7           | 99.           | 216.          |
| %RSD   | 1.004         | 1.420         | 1.996         | 2.187         | 1.102         | 1.382         |
| #1     | 25.63         | 255.5         | 99.90         | 118.9         | 8938.         | 15420.        |
| #2     | 25.95         | 259.2         | 101.2         | 122.8         | 8968.         | 15530.        |
| #3     | 26.15         | 262.8         | 103.9         | 124.0         | 9123.         | 15840.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 14950.        | 588.6         | 39690.        | 272.9         | 226.4         | 249.2         |
| Stddev | 178.          | 6.3           | 484.          | 4.4           | 3.5           | 3.6           |
| %RSD   | 1.190         | 1.071         | 1.220         | 1.622         | 1.541         | 1.454         |
| #1     | 14850.        | 584.3         | 39340.        | 268.5         | 223.1         | 245.6         |
| #2     | 14840.        | 585.6         | 39490.        | 272.9         | 226.2         | 249.3         |
| #3     | 15150.        | 595.8         | 40250.        | 277.3         | 230.0         | 252.8         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109586-D-2-C MS      Acquired: 3/4/2016 13:51:37      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 920.0         | 992.3         | 262.4         | 258.5         | 275.9         | 256.5         |
| Stddev | 15.4          | 16.5          | 4.2           | 3.3           | 6.3           | 3.9           |
| %RSD   | 1.677         | 1.661         | 1.613         | 1.264         | 2.282         | 1.527         |
| #1     | 904.4         | 976.8         | 258.7         | 255.3         | 269.7         | 252.8         |
| #2     | 920.2         | 990.5         | 261.5         | 258.3         | 275.8         | 256.1         |
| #3     | 935.3         | 1010.         | 267.0         | 261.8         | 282.2         | 260.6         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | 266.0         | 400.5         | 251.8         | 6836.         |
| Stddev | 2.1           | 7.2           | 3.2           | 245.          |
| %RSD   | .8055         | 1.804         | 1.252         | 3.590         |
| #1     | 263.7         | 393.2         | 248.9         | 6557.         |
| #2     | 266.4         | 400.5         | 251.5         | 6935.         |
| #3     | 268.0         | 407.7         | 255.1         | 7017.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | 2435.1        | 27666.        | 3667.7        |
| Stddev    | 43.9          | 905.          | 160.9         |
| %RSD      | 1.8013        | 3.2704        | 4.3873        |
| #1        | 2385.0        | 26629.        | 3481.9        |
| #2        | 2453.8        | 28296.        | 3762.4        |
| #3        | 2466.6        | 28072.        | 3758.7        |

Sample Name: 460-109586-C-6-A@2      Acquired: 3/4/2016 13:24:52      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>110.2</b>  | <b>-2.454</b> | <b>-.0517</b> | <b>7.818</b>  | <b>.0067</b>  | <b>934.6</b>  |
| Stddev | 5.7           | 1.828         | .1358         | .175          | .1019         | 14.0          |
| %RSD   | 5.203         | 74.50         | 262.6         | 2.237         | 1526.         | 1.501         |

|    |       |        |        |       |        |       |
|----|-------|--------|--------|-------|--------|-------|
| #1 | 105.3 | -3.653 | -.1805 | 7.620 | .0969  | 939.6 |
| #2 | 116.5 | -.3498 | -.0649 | 7.882 | -.1038 | 945.4 |
| #3 | 108.9 | -3.360 | .0902  | 7.952 | .0270  | 918.8 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.0391</b>  | <b>.5628</b>  | <b>1.413</b>  | <b>-.5758</b> | <b>948.0</b>  | <b>726.5</b>  |
| Stddev | .0374         | .1893         | .424          | .2301         | 6.1           | 46.3          |
| %RSD   | 95.61         | 33.63         | 30.03         | 39.96         | .6395         | 6.375         |

|    |       |       |       |        |       |       |
|----|-------|-------|-------|--------|-------|-------|
| #1 | .0823 | .6469 | 1.060 | -.3143 | 947.0 | 729.7 |
| #2 | .0186 | .6954 | 1.883 | -.6659 | 954.5 | 678.6 |
| #3 | .0165 | .3461 | 1.295 | -.7473 | 942.6 | 771.1 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>396.6</b>  | <b>24.63</b>  | <b>11740.</b> | <b>1.196</b>  | <b>-1.451</b> | <b>1.229</b>  |
| Stddev | 3.3           | .08           | 57.           | .112          | .370          | .457          |
| %RSD   | .8381         | .3213         | .4816         | 9.376         | 25.51         | 37.21         |

|    |       |       |        |       |        |       |
|----|-------|-------|--------|-------|--------|-------|
| #1 | 395.4 | 24.62 | 11750. | 1.196 | -1.713 | .7524 |
| #2 | 400.4 | 24.71 | 11780. | 1.083 | -1.027 | 1.271 |
| #3 | 394.0 | 24.55 | 11670. | 1.308 | -1.612 | 1.664 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109586-C-6-A@2      Acquired: 3/4/2016 13:24:52      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.263</b> | <b>-4.117</b> | <b>2.092</b>  | <b>2.979</b>  | <b>10.41</b>  | <b>.3173</b>  |
| Stddev | 2.317         | 1.350         | .207          | .351          | .15           | .2136         |
| %RSD   | 102.4         | 32.78         | 9.909         | 11.78         | 1.439         | 67.32         |
| #1     | .1199         | -4.650        | 2.257         | 3.153         | 10.25         | .1566         |
| #2     | -4.509        | -2.582        | 2.160         | 3.208         | 10.55         | .2355         |
| #3     | -2.400        | -5.118        | 1.859         | 2.575         | 10.43         | .5596         |

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

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.5813</b>  | <b>7.716</b>  | <b>3.581</b>  | <b>2655.</b>  |
| Stddev | .1431         | .166          | .128          | 143.          |
| %RSD   | 24.61         | 2.156         | 3.562         | 5.391         |
| #1     | .4961         | 7.706         | 3.724         | 2753.         |
| #2     | .7465         | 7.555         | 3.478         | 2491.         |
| #3     | .5014         | 7.887         | 3.542         | 2721.         |

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       | <b>2384.5</b> | <b>27223.</b> | <b>3634.7</b> |
| Stddev    | 38.8          | 857.          | 172.1         |
| %RSD      | 1.6258        | 3.1486        | 4.7340        |
| #1        | 2340.6        | 27549.        | 3704.7        |
| #2        | 2414.1        | 26251.        | 3438.6        |
| #3        | 2398.9        | 27869.        | 3760.7        |

Sample Name: CCVL      Acquired: 3/4/2016 14:06:19      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>229.1</b>  | <b>13.91</b>  | <b>9.295</b>  | <b>212.1</b>  | <b>2.212</b>  | <b>5245.</b>  |
| Stddev | 14.4          | 1.72          | .243          | 1.7           | .068          | 81.           |
| %RSD   | 6.301         | 12.33         | 2.618         | .7909         | 3.056         | 1.548         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 243.6 | 13.72 | 9.154 | 213.4 | 2.280 | 5151. |
| #2 | 214.8 | 15.71 | 9.577 | 212.7 | 2.145 | 5289. |
| #3 | 228.9 | 12.29 | 9.155 | 210.2 | 2.211 | 5294. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4.301</b>  | <b>53.48</b>  | <b>10.44</b>  | <b>21.56</b>  | <b>173.8</b>  | <b>5346.</b>  |
| Stddev | .142          | .37           | .62           | .20           | 5.4           | 29.           |
| %RSD   | 3.292         | .6880         | 5.909         | .9078         | 3.119         | .5365         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 4.442 | 53.89 | 11.15 | 21.55 | 174.7 | 5365. |
| #2 | 4.301 | 53.17 | 10.07 | 21.37 | 168.0 | 5361. |
| #3 | 4.159 | 53.37 | 10.09 | 21.76 | 178.7 | 5313. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4833.</b>  | <b>16.77</b>  | <b>5227.</b>  | <b>44.10</b>  | <b>11.02</b>  | <b>19.25</b>  |
| Stddev | 71.           | .02           | 10.           | .27           | .69           | .45           |
| %RSD   | 1.467         | .1127         | .1824         | .6024         | 6.252         | 2.342         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 4754. | 16.78 | 5230. | 44.09 | 10.44 | 19.76 |
| #2 | 4854. | 16.78 | 5235. | 44.38 | 11.78 | 19.09 |
| #3 | 4891. | 16.75 | 5217. | 43.85 | 10.84 | 18.90 |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCVL      Acquired: 3/4/2016 14:06:19      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 15.87         | 19.08         | 53.39         | 32.85         | 46.42         | 20.78         |
| Stddev | 4.75          | .81           | .16           | .23           | 1.00          | .30           |
| %RSD   | 29.92         | 4.269         | .2970         | .6996         | 2.160         | 1.433         |
| #1     | 20.73         | 19.19         | 53.57         | 32.62         | 47.41         | 21.12         |
| #2     | 11.24         | 18.22         | 53.28         | 33.08         | 45.41         | 20.56         |
| #3     | 15.65         | 19.84         | 53.32         | 32.85         | 46.44         | 20.67         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | 54.59         | 22.75         | 20.87         | F 6.105       |
| Stddev | .43           | .13           | .25           | 26.61         |
| %RSD   | .7812         | .5883         | 1.208         | 435.8         |
| #1     | 54.12         | 22.84         | 20.80         | 29.58         |
| #2     | 54.95         | 22.83         | 21.15         | -22.80        |
| #3     | 54.70         | 22.60         | 20.65         | 11.53         |

|         |          |          |          |          |
|---------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| Value   |          |          |          | 200.0    |
| Range   |          |          |          | -30.50%  |

| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
|-----------|---------------|---------------|---------------|
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | 2409.3        | 27389.        | 3644.8        |
| Stddev    | 31.8          | 876.          | 128.4         |
| %RSD      | 1.3181        | 3.1985        | 3.5229        |
| #1        | 2446.0        | 28368.        | 3736.3        |
| #2        | 2389.8        | 27123.        | 3700.1        |
| #3        | 2392.2        | 26677.        | 3498.0        |



Sample Name: MB 460-353918/1-A      Acquired: 3/4/2016 13:32:37      Type: QC

Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000

User: admin      Custom ID1:      Custom ID2:      Custom ID3:

Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-4.440</b> | <b>2.359</b>  | <b>-6.956</b> | <b>-1.655</b> | <b>.0385</b>  | <b>-71.92</b> |
| Stddev | 7.786         | 1.454         | .2294         | .0289         | .0908         | 3.71          |
| %RSD   | 175.4         | 61.65         | 32.98         | 17.46         | 235.7         | 5.163         |

|    |        |       |        |        |        |        |
|----|--------|-------|--------|--------|--------|--------|
| #1 | -1.057 | 1.883 | -.8397 | -.1945 | .0074  | -75.37 |
| #2 | 1.082  | 1.202 | -.4310 | -.1367 | .1409  | -72.42 |
| #3 | -13.35 | 3.991 | -.8162 | -.1653 | -.0326 | -67.99 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>.0870</b>  | <b>.2354</b>  | <b>.5665</b>  | <b>-2.886</b> | <b>-2.212</b> | <b>-17.36</b> |
| Stddev | .0846         | .4659         | .2562         | .252          | 9.432         | 28.51         |
| %RSD   | 97.24         | 197.9         | 45.21         | 8.718         | 426.4         | 164.2         |

|    |       |        |       |        |        |        |
|----|-------|--------|-------|--------|--------|--------|
| #1 | .0043 | .3777  | .3949 | -3.168 | 1.945  | -23.57 |
| #2 | .1732 | -.2851 | .8610 | -2.804 | 4.427  | 13.74  |
| #3 | .0834 | .6136  | .4438 | -2.685 | -13.01 | -42.25 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.765</b>  | <b>.0402</b>  | <b>1.853</b>  | <b>-.5515</b> | <b>.7373</b>  | <b>-.1267</b> |
| Stddev | 3.370         | .0287         | 10.13         | .9702         | .5471         | 1.380         |
| %RSD   | 191.0         | 71.25         | 546.4         | 175.9         | 74.20         | 1089.         |

|    |        |       |        |        |       |        |
|----|--------|-------|--------|--------|-------|--------|
| #1 | -.1974 | .0073 | -3.382 | .5606  | .7401 | -1.687 |
| #2 | -.1650 | .0597 | -4.583 | -.9906 | .1888 | .3740  |
| #3 | 5.656  | .0537 | 13.52  | -1.225 | 1.283 | .9328  |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: MB 460-353918/1-A      Acquired: 3/4/2016 13:32:37      Type: QC

Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000

User: admin      Custom ID1:      Custom ID2:      Custom ID3:

Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-3.546</b> | <b>1.086</b>  | <b>.5316</b>  | <b>.9061</b>  | <b>-.3459</b> | <b>.1123</b>  |
| Stddev | .761          | 1.088         | .3299         | .2699         | .1923         | .1591         |
| %RSD   | 21.47         | 100.3         | 62.06         | 29.79         | 55.58         | 141.6         |

|    |        |        |       |       |        |        |
|----|--------|--------|-------|-------|--------|--------|
| #1 | -2.819 | 1.233  | .3725 | .6537 | -.4422 | .1527  |
| #2 | -3.480 | -.0692 | .3114 | .8739 | -.4710 | -.0631 |
| #3 | -4.338 | 2.093  | .9109 | 1.191 | -.1245 | .2473  |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.1402</b>  | <b>.0684</b>  | <b>.1067</b>  | <b>6.200</b>  |
| Stddev | .4601         | .1211         | .1908         | 10.79         |
| %RSD   | 328.3         | 177.0         | 178.8         | 174.0         |

|    |        |        |        |        |
|----|--------|--------|--------|--------|
| #1 | -.3911 | .1510  | -.0965 | 15.50  |
| #2 | .4039  | .1248  | .2821  | 8.729  |
| #3 | .4077  | -.0706 | .1346  | -5.626 |

|            |          |          |          |      |
|------------|----------|----------|----------|------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | None |
| High Limit |          |          |          |      |
| Low Limit  |          |          |          |      |

| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
|-----------|---------------|---------------|---------------|
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2500.7</b> | <b>28758.</b> | <b>3805.9</b> |
| Stddev    | 9.4           | 233.          | 91.2          |
| %RSD      | .37543        | .81146        | 2.3960        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2506.4 | 28550. | 3714.4 |
| #2 | 2505.7 | 29010. | 3896.8 |
| #3 | 2489.8 | 28714. | 3806.6 |

Sample Name: LCS 460-353918/2-A      Acquired: 3/4/2016 13:36:31      Type: QC

Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000

User: admin      Custom ID1:      Custom ID2:      Custom ID3:

Comment:

| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2147.</b>  | <b>1898.</b>  | <b>48.13</b>  | <b>2068.</b>  | <b>54.52</b>  | <b>20910.</b> |
| Stddev | 11.           | 13.           | 1.05          | 11.           | .52           | 197.          |
| %RSD   | .5274         | .6730         | 2.174         | .5322         | .9559         | .9407         |

|    |       |       |       |       |       |        |
|----|-------|-------|-------|-------|-------|--------|
| #1 | 2160. | 1895. | 46.94 | 2071. | 55.02 | 20690. |
| #2 | 2140. | 1887. | 48.89 | 2056. | 54.56 | 20970. |
| #3 | 2142. | 1912. | 48.57 | 2077. | 53.98 | 21070. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>52.95</b>  | <b>519.4</b>  | <b>208.6</b>  | <b>245.6</b>  | <b>1060.</b>  | <b>19740.</b> |
| Stddev | .33           | 2.5           | 2.3           | .4            | 11.           | 45.           |
| %RSD   | .6250         | .4753         | 1.110         | .1479         | 1.058         | .2263         |

|    |       |       |       |       |       |        |
|----|-------|-------|-------|-------|-------|--------|
| #1 | 53.16 | 518.8 | 206.7 | 245.6 | 1048. | 19800. |
| #2 | 52.57 | 517.2 | 207.9 | 245.3 | 1062. | 19710. |
| #3 | 53.13 | 522.1 | 211.2 | 246.0 | 1071. | 19720. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>19080.</b> | <b>538.6</b>  | <b>20590.</b> | <b>543.7</b>  | <b>480.5</b>  | <b>495.2</b>  |
| Stddev | 163.          | .9            | 72.           | 1.8           | 2.7           | 2.5           |
| %RSD   | .8517         | .1675         | .3515         | .3256         | .5538         | .5043         |

|    |        |       |        |       |       |       |
|----|--------|-------|--------|-------|-------|-------|
| #1 | 18890. | 537.6 | 20660. | 544.3 | 479.7 | 493.7 |
| #2 | 19130. | 539.3 | 20580. | 541.7 | 478.3 | 493.9 |
| #3 | 19210. | 538.8 | 20520. | 545.1 | 483.4 | 498.1 |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: LCS 460-353918/2-A      Acquired: 3/4/2016 13:36:31      Type: QC

Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000

User: admin      Custom ID1:      Custom ID2:      Custom ID3:

Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 1875.         | 2004.         | 532.2         | 538.4         | 466.9         | 514.7         |
| Stddev | 10.           | 11.           | .8            | 5.8           | 2.7           | 2.7           |
| %RSD   | .5476         | .5401         | .1453         | 1.074         | .5690         | .5233         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 1866. | 2014. | 531.3 | 535.1 | 467.3 | 515.6 |
| #2 | 1872. | 1993. | 532.7 | 535.0 | 464.1 | 511.7 |
| #3 | 1886. | 2006. | 532.6 | 545.1 | 469.3 | 516.8 |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | 534.5         | 542.6         | 511.9         | 104.4         |
| Stddev | 3.8           | 2.8           | 1.1           | 13.4          |
| %RSD   | .7141         | .5088         | .2097         | 12.87         |

|    |       |       |       |       |
|----|-------|-------|-------|-------|
| #1 | 532.1 | 545.8 | 513.1 | 100.4 |
| #2 | 532.6 | 541.7 | 511.4 | 119.4 |
| #3 | 538.9 | 540.5 | 511.1 | 93.40 |

|         |          |          |          |      |
|---------|----------|----------|----------|------|
| 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       | 2391.1        | 27129.        | 3676.7        |
| Stddev    | 32.2          | 494.          | 51.0          |
| %RSD      | 1.3464        | 1.8203        | 1.3876        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2409.9 | 27679. | 3735.6 |
| #2 | 2409.4 | 26984. | 3647.9 |
| #3 | 2353.9 | 26724. | 3646.7 |

Sample Name: 460-109586-D-2-A@2      Acquired: 3/4/2016 13:43:56      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>60.68</b>  | <b>.4967</b>  | <b>-.2944</b> | <b>67.12</b>  | <b>.1775</b>  | <b>18490.</b> |
| Stddev | 10.51         | 1.066         | .4255         | .36           | .0166         | 127.          |
| %RSD   | 17.33         | 214.7         | 144.5         | .5389         | 9.329         | .6848         |
| #1     | 72.72         | -.6084        | .1212         | 66.82         | .1584         | 18610.        |
| #2     | 56.00         | .5792         | -.7291        | 67.02         | .1872         | 18510.        |
| #3     | 53.32         | 1.519         | -.2753        | 67.52         | .1870         | 18360.        |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.1456</b> | <b>-.0423</b> | <b>2.012</b>  | <b>-3.364</b> | <b>8274.</b>  | <b>5646.</b>  |
| Stddev | .1138         | .4353         | .922          | .771          | 52.           | 64.           |
| %RSD   | 78.20         | 1030.         | 45.85         | 22.93         | .6315         | 1.135         |
| #1     | -.2768        | .3396         | 3.074         | -2.553        | 8326.         | 5609.         |
| #2     | -.0869        | .0499         | 1.415         | -3.451        | 8274.         | 5609.         |
| #3     | -.0731        | -.5163        | 1.546         | -4.088        | 8222.         | 5720.         |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>5735.</b>  | <b>319.5</b>  | <b>29090.</b> | <b>.2344</b>  | <b>-1.942</b> | <b>-.1732</b> |
| Stddev | 60.           | 1.0           | 84.           | .6371         | 1.323         | .9547         |
| %RSD   | 1.047         | .2981         | .2871         | 271.8         | 68.11         | 551.3         |
| #1     | 5794.         | 320.0         | 29110.        | .3428         | -.4506        | -1.062        |
| #2     | 5736.         | 320.2         | 29170.        | .8103         | -2.402        | .8361         |
| #3     | 5674.         | 318.5         | 29010.        | -.4499        | -2.973        | -.2938        |

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

Sample Name: 460-109586-D-2-A@2      Acquired: 3/4/2016 13:43:56      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.1078</b>  | <b>-3.347</b> | <b>1.956</b>  | <b>2.139</b>  | <b>45.01</b>  | <b>.7297</b>  |
| Stddev | 4.444         | .693          | .235          | .148          | .40           | .2035         |
| %RSD   | 4121.         | 20.72         | 11.99         | 6.904         | .8923         | 27.88         |
| #1     | 3.581         | -3.272        | 1.763         | 2.309         | 45.43         | .9441         |
| #2     | -4.900        | -4.075        | 1.888         | 2.043         | 44.63         | .5392         |
| #3     | 1.643         | -2.694        | 2.217         | 2.065         | 44.97         | .7059         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.009</b>  | <b>130.3</b>  | <b>2.163</b>  | <b>6846.</b>  |
| Stddev | .667          | .5            | .141          | 140.          |
| %RSD   | 66.05         | .3920         | 6.515         | 2.051         |
| #1     | .7030         | 130.0         | 2.318         | 6722.         |
| #2     | 1.774         | 130.0         | 2.043         | 6999.         |
| #3     | .5508         | 130.9         | 2.127         | 6817.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2430.1</b> | <b>28653.</b> | <b>3708.9</b> |
| Stddev    | 21.6          | 302.          | 15.3          |
| %RSD      | .88879        | 1.0523        | .41285        |
| #1        | 2425.3        | 28436.        | 3691.3        |
| #2        | 2411.3        | 28526.        | 3717.0        |
| #3        | 2453.7        | 28997.        | 3718.5        |

Sample Name: sd 460-109586-D-2-A      Acquired: 3/4/2016 13:47:45      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2.333</b>  | <b>-.9269</b> | <b>-.7560</b> | <b>12.60</b>  | <b>.1203</b>  | <b>3585.</b>  |
| Stddev | 8.560         | 1.369         | .2218         | .17           | .0708         | 36.           |
| %RSD   | 366.9         | 147.7         | 29.33         | 1.344         | 58.91         | 1.000         |
| #1     | 9.157         | -.0235        | -.6793        | 12.77         | .2000         | 3543.         |
| #2     | 5.113         | -.2555        | -1.006        | 12.60         | .0646         | 3608.         |
| #3     | -7.272        | -2.502        | -.5829        | 12.43         | .0962         | 3603.         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.0581</b>  | <b>.1676</b>  | <b>.6095</b>  | <b>-3.884</b> | <b>1617.</b>  | <b>1077.</b>  |
| Stddev | .0535         | .1849         | .4845         | .161          | 4.            | 17.           |
| %RSD   | 92.14         | 110.3         | 79.48         | 4.133         | .2515         | 1.610         |
| #1     | .0800         | .3654         | .0569         | -3.998        | 1615.         | 1092.         |
| #2     | .0972         | -.0009        | .9612         | -3.700        | 1615.         | 1081.         |
| #3     | -.0029        | .1384         | .8105         | -3.954        | 1622.         | 1058.         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1108.</b>  | <b>62.84</b>  | <b>5624.</b>  | <b>-.1629</b> | <b>-.2588</b> | <b>1.236</b>  |
| Stddev | 12.           | .41           | 27.           | .3932         | .8051         | .969          |
| %RSD   | 1.065         | .6508         | .4774         | 241.4         | 311.1         | 78.40         |
| #1     | 1095.         | 62.40         | 5601.         | -.5950        | .2354         | .3327         |
| #2     | 1116.         | 63.21         | 5617.         | -.0677        | -1.188        | 2.259         |
| #3     | 1114.         | 62.91         | 5654.         | .1739         | .1760         | 1.115         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: sd 460-109586-D-2-A      Acquired: 3/4/2016 13:47:45      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.326</b> | <b>-1.785</b> | <b>.5626</b>  | <b>.6871</b>  | <b>8.276</b>  | <b>-.0275</b> |
| Stddev | .711          | 1.833         | .7171         | .1459         | .633          | .2049         |
| %RSD   | 30.56         | 102.7         | 127.5         | 21.24         | 7.647         | 745.6         |
| #1     | -1.507        | -.0227        | 1.334         | .5189         | 7.775         | .1388         |
| #2     | -2.787        | -1.650        | .4378         | .7630         | 8.987         | .0352         |
| #3     | -2.683        | -3.681        | -.0839        | .7795         | 8.066         | -.2564        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.5777</b>  | <b>25.53</b>  | <b>.5585</b>  | <b>1298.</b>  |
| Stddev | .9397         | .14           | .2495         | 30.           |
| %RSD   | 162.7         | .5508         | 44.67         | 2.297         |
| #1     | -.4745        | 25.52         | .2966         | 1325.         |
| #2     | 1.334         | 25.40         | .7933         | 1302.         |
| #3     | .8739         | 25.68         | .5857         | 1266.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2410.3</b> | <b>28122.</b> | <b>3669.1</b> |
| Stddev    | 17.3          | 479.          | 116.7         |
| %RSD      | .71644        | 1.7037        | 3.1802        |
| #1        | 2425.8        | 28622.        | 3767.6        |
| #2        | 2413.4        | 28078.        | 3699.3        |
| #3        | 2391.7        | 27667.        | 3540.2        |



Sample Name: pds 460-109586-D-2-A      Acquired: 3/4/2016 13:55:18      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2154.</b>  | <b>1811.</b>  | <b>45.82</b>  | <b>2084.</b>  | <b>54.28</b>  | <b>38220.</b> |
| Stddev | 2.            | 17.           | .32           | 7.            | .22           | 521.          |
| %RSD   | .0948         | .9348         | .6988         | .3411         | .4124         | 1.363         |
| #1     | 2155.         | 1828.         | 46.19         | 2092.         | 54.06         | 37780.        |
| #2     | 2155.         | 1810.         | 45.64         | 2082.         | 54.51         | 38090.        |
| #3     | 2151.         | 1794.         | 45.63         | 2078.         | 54.27         | 38800.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>50.61</b>  | <b>503.4</b>  | <b>194.8</b>  | <b>241.2</b>  | <b>9037.</b>  | <b>25040.</b> |
| Stddev | .21           | 2.8           | 1.2           | 1.4           | 88.           | 148.          |
| %RSD   | .4195         | .5502         | .5942         | .5838         | .9787         | .5907         |
| #1     | 50.83         | 506.0         | 194.3         | 242.5         | 8957.         | 24890.        |
| #2     | 50.41         | 503.7         | 194.0         | 241.4         | 9023.         | 25060.        |
| #3     | 50.59         | 500.5         | 196.1         | 239.7         | 9132.         | 25190.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>23440.</b> | <b>821.1</b>  | <b>48600.</b> | <b>530.4</b>  | <b>449.2</b>  | <b>478.5</b>  |
| Stddev | 253.          | 1.7           | 267.          | 2.0           | 2.2           | 3.7           |
| %RSD   | 1.077         | .2023         | .5485         | .3730         | .5001         | .7668         |
| #1     | 23240.        | 819.6         | 48340.        | 532.4         | 450.5         | 482.7         |
| #2     | 23340.        | 820.7         | 48570.        | 530.6         | 446.6         | 476.4         |
| #3     | 23720.        | 822.9         | 48870.        | 528.4         | 450.4         | 476.3         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: pds 460-109586-D-2-A      Acquired: 3/4/2016 13:55:18      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 1830.         | 1943.         | 510.7         | 503.3         | 498.6         | 500.6         |
| Stddev | 19.           | 4.            | 1.1           | .7            | 4.9           | 2.1           |
| %RSD   | 1.045         | .2152         | .2071         | .1448         | .9920         | .4115         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 1848. | 1946. | 511.9 | 503.0 | 503.3 | 502.5 |
| #2 | 1834. | 1946. | 509.7 | 502.8 | 499.0 | 500.8 |
| #3 | 1810. | 1939. | 510.6 | 504.1 | 493.4 | 498.4 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | 519.6         | 663.9         | 488.4         | 6860.         |
| Stddev | 2.7           | 2.0           | .8            | 46.           |
| %RSD   | .5140         | .2960         | .1598         | .6700         |

|    |       |       |       |       |
|----|-------|-------|-------|-------|
| #1 | 522.0 | 661.7 | 489.3 | 6901. |
| #2 | 519.9 | 664.6 | 488.0 | 6869. |
| #3 | 516.7 | 665.5 | 487.9 | 6811. |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | 2440.0        | 28418.        | 3826.5        |
| Stddev    | 25.2          | 614.          | 92.2          |
| %RSD      | 1.0326        | 2.1613        | 2.4103        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2452.6 | 28923. | 3886.1 |
| #2 | 2456.5 | 28597. | 3873.0 |
| #3 | 2411.0 | 27734. | 3720.2 |

Sample Name: CCV      Acquired: 3/4/2016 13:58:52      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |                |               |               |               |               |                |
|--------|----------------|---------------|---------------|---------------|---------------|----------------|
| Elem   | Al3961         | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181         |
| Line   | 396.152 { 85}  | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106}  |
| IS Ref | (Y_3710)       | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)       |
| Units  | ppb            | ppb           | ppb           | ppb           | ppb           | ppb            |
| Avg    | <b>133100.</b> | <b>2376.</b>  | <b>1211.</b>  | <b>10470.</b> | <b>1093.</b>  | <b>130900.</b> |
| Stddev | 600.           | 16.           | 3.            | 8.            | 6.            | 232.           |
| %RSD   | .4509          | .6693         | .2204         | .0811         | .5419         | .1773          |

|    |         |       |       |        |       |         |
|----|---------|-------|-------|--------|-------|---------|
| #1 | 132500. | 2393. | 1213. | 10480. | 1086. | 130800. |
| #2 | 133200. | 2362. | 1208. | 10480. | 1094. | 130800. |
| #3 | 133700. | 2372. | 1210. | 10460. | 1097. | 131200. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>1307.</b>  | <b>2564.</b>  | <b>4848.</b>  | <b>12670.</b> | <b>99460.</b> | <b>55100.</b> |
| Stddev | 2.            | 5.            | 9.            | 20.           | 139.          | 129.          |
| %RSD   | .1264         | .1882         | .1808         | .1547         | .1393         | .2346         |

|    |       |       |       |        |        |        |
|----|-------|-------|-------|--------|--------|--------|
| #1 | 1309. | 2566. | 4845. | 12660. | 99540. | 54960. |
| #2 | 1306. | 2559. | 4842. | 12690. | 99300. | 55130. |
| #3 | 1308. | 2569. | 4858. | 12650. | 99530. | 55210. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>119000.</b> | <b>5294.</b>  | <b>131100.</b> | <b>2672.</b>  | <b>7304.</b>  | <b>1020.</b>  |
| Stddev | 368.           | 18.           | 203.           | 7.            | 2.            | 7.            |
| %RSD   | .3090          | .3329         | .1549          | .2765         | .0295         | .6645         |

|    |         |       |         |       |       |       |
|----|---------|-------|---------|-------|-------|-------|
| #1 | 119300. | 5274. | 130900. | 2679. | 7302. | 1024. |
| #2 | 118600. | 5299. | 131000. | 2665. | 7303. | 1013. |
| #3 | 119200. | 5308. | 131300. | 2672. | 7306. | 1024. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCV      Acquired: 3/4/2016 13:58:52      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 2450.         | 2502.         | 2584.         | 2575.         | 962.0         | 2591.         |
| Stddev | 26.           | 1.            | 3.            | 5.            | 5.3           | 1.            |
| %RSD   | 1.072         | .0507         | .1206         | .2055         | .5560         | .0404         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 2474. | 2503. | 2582. | 2573. | 966.7 | 2592. |
| #2 | 2422. | 2501. | 2583. | 2570. | 956.2 | 2590. |
| #3 | 2454. | 2502. | 2588. | 2581. | 963.0 | 2590. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | 1057.         | F 5540.       | 9970.         | 10020.        |
| Stddev | 3.            | 9.            | 4.            | 112.          |
| %RSD   | .2404         | .1683         | .0449         | 1.118         |

|    |       |       |       |        |
|----|-------|-------|-------|--------|
| #1 | 1057. | 5532. | 9965. | 10070. |
| #2 | 1054. | 5550. | 9973. | 10110. |
| #3 | 1060. | 5539. | 9973. | 9895.  |

|         |          |          |          |      |
|---------|----------|----------|----------|------|
| Check ? | Chk Pass | Chk Fail | Chk Pass | None |
| Value   |          | 5000.    |          |      |
| Range   |          | 10.50%   |          |      |

|           |               |               |               |
|-----------|---------------|---------------|---------------|
| 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       | 2231.8        | 25988.        | 3354.5        |
| Stddev    | 10.4          | 196.          | 72.1          |
| %RSD      | .46709        | .75253        | 2.1500        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2238.3 | 26124. | 3408.3 |
| #2 | 2237.2 | 26077. | 3382.7 |
| #3 | 2219.7 | 25764. | 3272.5 |

Sample Name: CCB      Acquired: 3/4/2016 14:02:22      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.232</b>  | <b>.6715</b>  | <b>-.6575</b> | <b>.2837</b>  | <b>.0076</b>  | <b>-77.86</b> |
| Stddev | 5.700         | 2.973         | .3141         | .1803         | .0795         | 3.54          |
| %RSD   | 462.7         | 442.7         | 47.77         | 63.56         | 1050.         | 4.545         |
| #1     | 2.248         | 2.163         | -.7451        | .4489         | .0992         | -81.19        |
| #2     | -4.908        | 2.604         | -.9185        | .3109         | -.0435        | -74.15        |
| #3     | 6.355         | -2.752        | -.3089        | .0913         | -.0330        | -78.23        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.0880</b>  | <b>.3463</b>  | <b>.7573</b>  | <b>-2.754</b> | <b>8.826</b>  | <b>-28.68</b> |
| Stddev | .0909         | .3468         | .2815         | 1.000         | 4.740         | 6.38          |
| %RSD   | 103.2         | 100.1         | 37.17         | 36.30         | 53.71         | 22.24         |
| #1     | -.0034        | .6917         | .5335         | -3.652        | 7.867         | -23.98        |
| #2     | .0892         | .3489         | .6651         | -1.677        | 13.97         | -26.12        |
| #3     | .1783         | -.0018        | 1.073         | -2.932        | 4.639         | -35.94        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>6.325</b>  | <b>.4399</b>  | <b>14.71</b>  | <b>-.3268</b> | <b>.8258</b>  | <b>.9304</b>  |
| Stddev | 3.912         | .3104         | 7.35          | .3228         | .3600         | 1.875         |
| %RSD   | 61.84         | 70.57         | 49.99         | 98.81         | 43.60         | 201.5         |
| #1     | 3.652         | .2201         | 16.63         | -.4308        | .4578         | -.4999        |
| #2     | 10.82         | .7951         | 6.588         | .0353         | 1.177         | .2379         |
| #3     | 4.510         | .3046         | 20.92         | -.5848        | .8422         | 3.053         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: CCB      Acquired: 3/4/2016 14:02:22      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.888</b> | <b>-2.394</b> | <b>.4117</b>  | <b>.0458</b>  | <b>1.229</b>  | <b>.9744</b>  |
| Stddev | 2.630         | 1.756         | .3854         | .1178         | .209          | .7904         |
| %RSD   | 91.06         | 73.37         | 93.61         | 257.5         | 17.04         | 81.11         |
| #1     | .1017         | -1.068        | .3816         | -.0874        | 1.403         | 1.785         |
| #2     | -4.845        | -1.727        | .8113         | .0879         | 1.287         | .9328         |
| #3     | -3.922        | -4.385        | .0422         | .1367         | .9966         | .2057         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.208</b>  | <b>.4682</b>  | <b>.9332</b>  | <b>25.46</b>  |
| Stddev | 1.037         | .0545         | .3452         | 3.79          |
| %RSD   | 85.84         | 11.63         | 36.99         | 14.88         |
| #1     | .0734         | .5299         | .8606         | 22.86         |
| #2     | 2.107         | .4479         | 1.309         | 29.81         |
| #3     | 1.444         | .4268         | .6302         | 23.72         |

|            |          |          |          |      |
|------------|----------|----------|----------|------|
| 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       | <b>2450.5</b> | <b>28289.</b> | <b>3674.3</b> |
| Stddev    | 22.3          | 272.          | 56.4          |
| %RSD      | .90813        | .96003        | 1.5356        |
| #1        | 2464.0        | 28424.        | 3610.0        |
| #2        | 2462.6        | 28466.        | 3715.5        |
| #3        | 2424.8        | 27976.        | 3697.3        |

Sample Name: z      Acquired: 3/4/2016 14:10:12      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>16.04</b>  | <b>-.4676</b> | <b>-.4005</b> | <b>.0470</b>  | <b>.0201</b>  | <b>-76.07</b> |
| Stddev | 20.27         | .8448         | .1186         | .0886         | .3991         | 11.07         |
| %RSD   | 126.4         | 180.7         | 29.60         | 188.6         | 1987.         | 14.55         |

|    |       |        |        |        |        |        |
|----|-------|--------|--------|--------|--------|--------|
| #1 | 1.705 | .1297  | -.3167 | -.0157 | -.2621 | -68.24 |
| #2 | 30.37 | -1.065 | -.4844 | .1096  | .3023  | -83.89 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.0729</b>  | <b>.1500</b>  | <b>.4583</b>  | <b>-2.536</b> | <b>12.95</b>  | <b>-11.50</b> |
| Stddev | .0781         | .1641         | .4182         | .092          | .61           | 10.76         |
| %RSD   | 107.2         | 109.4         | 91.23         | 3.635         | 4.678         | 93.64         |

|    |       |       |       |        |       |        |
|----|-------|-------|-------|--------|-------|--------|
| #1 | .1281 | .2661 | .7540 | -2.470 | 12.52 | -3.884 |
| #2 | .0177 | .0340 | .1627 | -2.601 | 13.37 | -19.11 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.6545</b> | <b>.1983</b>  | <b>11.04</b>  | <b>-.8899</b> | <b>-.3338</b> | <b>1.727</b>  |
| Stddev | 8.946         | .0885         | 6.80          | .6009         | .0065         | 2.350         |
| %RSD   | 1367.         | 44.60         | 61.60         | 67.52         | 1.943         | 136.1         |

|    |        |       |       |        |        |       |
|----|--------|-------|-------|--------|--------|-------|
| #1 | 5.672  | .1358 | 15.85 | -.4651 | -.3292 | .0647 |
| #2 | -6.981 | .2609 | 6.232 | -1.315 | -.3383 | 3.389 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: z      Acquired: 3/4/2016 14:10:12      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.9755</b> | <b>-4.268</b> | <b>.5505</b>  | <b>1.054</b>  | <b>3.290</b>  | <b>.1877</b>  |
| Stddev | 2.160         | .916          | .0816         | .366          | .434          | .5059         |
| %RSD   | 221.5         | 21.46         | 14.82         | 34.74         | 13.20         | 269.4         |

|    |               |               |              |              |              |               |
|----|---------------|---------------|--------------|--------------|--------------|---------------|
| #1 | <b>-2.503</b> | <b>-3.621</b> | <b>.4928</b> | <b>.7953</b> | <b>2.983</b> | <b>.5454</b>  |
| #2 | <b>.5522</b>  | <b>-4.916</b> | <b>.6082</b> | <b>1.313</b> | <b>3.598</b> | <b>-.1699</b> |

|            |                 |                 |                 |                 |                 |                 |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Check ?    | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> |
| High Limit |                 |                 |                 |                 |                 |                 |
| Low Limit  |                 |                 |                 |                 |                 |                 |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.8104</b>  | <b>.1221</b>  | <b>.4139</b>  | <b>46.28</b>  |
| Stddev | .6722         | .3063         | .0046         | 10.92         |
| %RSD   | 82.95         | 250.9         | 1.119         | 23.59         |

|    |              |               |              |              |
|----|--------------|---------------|--------------|--------------|
| #1 | <b>.3351</b> | <b>.3387</b>  | <b>.4172</b> | <b>54.00</b> |
| #2 | <b>1.286</b> | <b>-.0945</b> | <b>.4106</b> | <b>38.56</b> |

|            |                 |                 |                 |                 |
|------------|-----------------|-----------------|-----------------|-----------------|
| Check ?    | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> |
| High Limit |                 |                 |                 |                 |
| Low Limit  |                 |                 |                 |                 |

|           |               |               |               |
|-----------|---------------|---------------|---------------|
| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2340.7</b> | <b>26627.</b> | <b>3506.9</b> |
| Stddev    | 36.1          | 767.          | 129.6         |
| %RSD      | 1.5405        | 2.8816        | 3.6956        |

|    |               |               |               |
|----|---------------|---------------|---------------|
| #1 | <b>2366.2</b> | <b>27170.</b> | <b>3598.5</b> |
| #2 | <b>2315.2</b> | <b>26085.</b> | <b>3415.3</b> |



Sample Name: CCV      Acquired: 3/4/2016 14:22:39      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |                |               |               |               |               |                |
|--------|----------------|---------------|---------------|---------------|---------------|----------------|
| Elem   | Al3961         | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181         |
| Line   | 396.152 { 85}  | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106}  |
| IS Ref | (Y_3710)       | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)       |
| Units  | ppb            | ppb           | ppb           | ppb           | ppb           | ppb            |
| Avg    | <b>131500.</b> | <b>2394.</b>  | <b>1201.</b>  | <b>10380.</b> | <b>1023.</b>  | <b>126700.</b> |
| Stddev | 703.           | 33.           | 9.            | 107.          | 5.            | 631.           |
| %RSD   | .5342          | 1.397         | .7824         | 1.030         | .5247         | .4983          |

|    |                |              |              |               |              |                |
|----|----------------|--------------|--------------|---------------|--------------|----------------|
| #1 | <b>131300.</b> | <b>2368.</b> | <b>1197.</b> | <b>10360.</b> | <b>1022.</b> | <b>126100.</b> |
| #2 | <b>132300.</b> | <b>2382.</b> | <b>1194.</b> | <b>10290.</b> | <b>1030.</b> | <b>126600.</b> |
| #3 | <b>130900.</b> | <b>2432.</b> | <b>1211.</b> | <b>10500.</b> | <b>1019.</b> | <b>127400.</b> |

|         |                 |                 |                 |                 |                 |                 |
|---------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Check ? | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> |
| 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    | <b>1297.</b>  | <b>2567.</b>  | <b>4826.</b>  | <b>12710.</b> | <b>98070.</b> | <b>53710.</b> |
| Stddev | 15.           | 27.           | 42.           | 111.          | 730.          | 352.          |
| %RSD   | 1.125         | 1.052         | .8796         | .8712         | .7447         | .6561         |

|    |              |              |              |               |               |               |
|----|--------------|--------------|--------------|---------------|---------------|---------------|
| #1 | <b>1292.</b> | <b>2556.</b> | <b>4797.</b> | <b>12670.</b> | <b>97580.</b> | <b>53610.</b> |
| #2 | <b>1286.</b> | <b>2547.</b> | <b>4807.</b> | <b>12630.</b> | <b>97730.</b> | <b>54110.</b> |
| #3 | <b>1314.</b> | <b>2598.</b> | <b>4875.</b> | <b>12840.</b> | <b>98910.</b> | <b>53420.</b> |

|         |                 |                 |                 |                 |                 |                 |
|---------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Check ? | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> |
| 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    | <b>117500.</b> | <b>5229.</b>  | <b>129200.</b> | <b>2646.</b>  | <b>7362.</b>  | <b>1022.</b>  |
| Stddev | 1207.          | 26.           | 454.           | 29.           | 92.           | 13.           |
| %RSD   | 1.027          | .4923         | .3516          | 1.111         | 1.249         | 1.256         |

|    |                |              |                |              |              |              |
|----|----------------|--------------|----------------|--------------|--------------|--------------|
| #1 | <b>116700.</b> | <b>5212.</b> | <b>129100.</b> | <b>2637.</b> | <b>7318.</b> | <b>1018.</b> |
| #2 | <b>117000.</b> | <b>5218.</b> | <b>129600.</b> | <b>2622.</b> | <b>7301.</b> | <b>1011.</b> |
| #3 | <b>118900.</b> | <b>5259.</b> | <b>128700.</b> | <b>2679.</b> | <b>7468.</b> | <b>1036.</b> |

|         |                 |                 |                 |                 |                 |                 |
|---------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Check ? | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> |
| Value   |                 |                 |                 |                 |                 |                 |
| Range   |                 |                 |                 |                 |                 |                 |

Sample Name: CCV      Acquired: 3/4/2016 14:22:39      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2457.</b>  | <b>2518.</b>  | <b>2562.</b>  | <b>2548.</b>  | <b>978.2</b>  | <b>2585.</b>  |
| Stddev | 36.           | 28.           | 17.           | 31.           | 14.5          | 31.           |
| %RSD   | 1.463         | 1.102         | .6722         | 1.208         | 1.480         | 1.206         |
| #1     | 2430.         | 2507.         | 2552.         | 2542.         | 969.3         | 2574.         |
| #2     | 2442.         | 2498.         | 2552.         | 2522.         | 970.4         | 2561.         |
| #3     | 2498.         | 2550.         | 2582.         | 2582.         | 994.9         | 2620.         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>1049.</b>  | <b>5392.</b>  | <b>9967.</b>  | <b>10150.</b> |
| Stddev | 9.            | 24.           | 92.           | 165.          |
| %RSD   | .8246         | .4382         | .9194         | 1.620         |
| #1     | 1045.         | 5386.         | 9914.         | 10210.        |
| #2     | 1042.         | 5418.         | 9913.         | 9966.         |
| #3     | 1058.         | 5372.         | 10070.        | 10280.        |

|         |          |          |          |      |
|---------|----------|----------|----------|------|
| 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       | <b>2317.3</b> | <b>27360.</b> | <b>3595.5</b> |
| Stddev    | 22.7          | 77.           | 66.4          |
| %RSD      | .97776        | .27982        | 1.8461        |
| #1        | 2300.4        | 27317.        | 3595.0        |
| #2        | 2343.1        | 27315.        | 3529.3        |
| #3        | 2308.4        | 27448.        | 3662.1        |

Sample Name: CCB      Acquired: 3/4/2016 14:26:10      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.3937</b>  | <b>1.127</b>  | <b>-.8029</b> | <b>.0783</b>  | <b>.0167</b>  | <b>-60.34</b> |
| Stddev | 12.83         | .617          | .5247         | .0760         | .0445         | 16.40         |
| %RSD   | 3258.         | 54.75         | 65.36         | 97.03         | 266.3         | 27.17         |
| #1     | 14.44         | .7104         | -.8131        | .0759         | .0405         | -66.91        |
| #2     | -2.549        | 1.836         | -.2731        | .0035         | .0443         | -72.44        |
| #3     | -10.71        | .8354         | -1.322        | .1554         | -.0346        | -41.68        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.1741</b>  | <b>.5893</b>  | <b>.9186</b>  | <b>-2.944</b> | <b>-2.313</b> | <b>-20.41</b> |
| Stddev | .1927         | .0653         | .3427         | .463          | 7.507         | 29.55         |
| %RSD   | 110.6         | 11.07         | 37.31         | 15.73         | 324.5         | 144.8         |
| #1     | -.0415        | .5862         | .8840         | -3.067        | 4.215         | -14.78        |
| #2     | .2347         | .5256         | 1.277         | -2.431        | -10.52        | -52.38        |
| #3     | .3292         | .6560         | .5945         | -3.333        | -.6381        | 5.918         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-3.441</b> | <b>.0685</b>  | <b>13.67</b>  | <b>-.5856</b> | <b>1.201</b>  | <b>2.087</b>  |
| Stddev | 2.469         | .0560         | 4.50          | .0691         | 1.154         | 1.252         |
| %RSD   | 71.76         | 81.66         | 32.90         | 11.80         | 96.11         | 59.98         |
| #1     | -.7666        | .1175         | 16.82         | -.6649        | .4815         | 3.524         |
| #2     | -5.635        | .0806         | 15.68         | -.5528        | 2.532         | 1.227         |
| #3     | -3.922        | .0075         | 8.519         | -.5390        | .5888         | 1.511         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: CCB      Acquired: 3/4/2016 14:26:10      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.622</b> | <b>-.4310</b> | <b>-.1831</b> | <b>-.0764</b> | <b>.8843</b>  | <b>.9194</b>  |
| Stddev | 2.254         | .3769         | .2977         | .2391         | .4435         | .4040         |
| %RSD   | 85.96         | 87.44         | 162.6         | 313.0         | 50.15         | 43.94         |
| #1     | <b>-.5970</b> | <b>-.0153</b> | <b>-.2656</b> | <b>.1144</b>  | <b>1.153</b>  | <b>1.198</b>  |
| #2     | <b>-5.050</b> | <b>-.5273</b> | <b>-.4309</b> | <b>.0010</b>  | <b>1.128</b>  | <b>1.104</b>  |
| #3     | <b>-2.218</b> | <b>-.7504</b> | <b>.1472</b>  | <b>-.3445</b> | <b>.3725</b>  | <b>.4561</b>  |

|            |                 |                 |                 |                 |                 |                 |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Check ?    | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> |
| High Limit |                 |                 |                 |                 |                 |                 |
| Low Limit  |                 |                 |                 |                 |                 |                 |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.7053</b>  | <b>.2968</b>  | <b>.6250</b>  | <b>11.31</b>  |
| Stddev | .4668         | .1464         | .1337         | 26.68         |
| %RSD   | 66.18         | 49.32         | 21.40         | 235.9         |
| #1     | <b>.4855</b>  | <b>.4233</b>  | <b>.7759</b>  | <b>-5.842</b> |
| #2     | <b>.3890</b>  | <b>.1364</b>  | <b>.5777</b>  | <b>42.04</b>  |
| #3     | <b>1.241</b>  | <b>.3308</b>  | <b>.5213</b>  | <b>-2.280</b> |

|            |                 |                 |                 |             |
|------------|-----------------|-----------------|-----------------|-------------|
| Check ?    | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>None</b> |
| High Limit |                 |                 |                 |             |
| Low Limit  |                 |                 |                 |             |

| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
|-----------|---------------|---------------|---------------|
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2426.9</b> | <b>27491.</b> | <b>3561.6</b> |
| Stddev    | 67.4          | 976.          | 104.4         |
| %RSD      | 2.7769        | 3.5504        | 2.9303        |
| #1        | <b>2406.6</b> | <b>27229.</b> | <b>3593.3</b> |
| #2        | <b>2372.0</b> | <b>26673.</b> | <b>3445.1</b> |
| #3        | <b>2502.1</b> | <b>28572.</b> | <b>3646.4</b> |

Sample Name: CCVL      Acquired: 3/4/2016 14:30:07      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>209.8</b>  | <b>18.04</b>  | <b>8.710</b>  | <b>203.8</b>  | <b>1.891</b>  | <b>4976.</b>  |
| Stddev | 8.6           | 1.16          | .832          | 1.0           | .021          | 42.           |
| %RSD   | 4.084         | 6.428         | 9.556         | .4999         | 1.125         | .8447         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 202.9 | 19.33 | 9.248 | 202.8 | 1.888 | 5014. |
| #2 | 207.2 | 17.10 | 9.130 | 203.7 | 1.913 | 4983. |
| #3 | 219.4 | 17.68 | 7.751 | 204.8 | 1.871 | 4931. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4.178</b>  | <b>50.89</b>  | <b>9.968</b>  | <b>19.97</b>  | <b>155.3</b>  | <b>5075.</b>  |
| Stddev | .100          | .06           | .162          | .77           | 10.6          | 60.           |
| %RSD   | 2.387         | .1181         | 1.629         | 3.868         | 6.834         | 1.187         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 4.064 | 50.95 | 10.02 | 20.58 | 160.0 | 5054. |
| #2 | 4.250 | 50.84 | 9.785 | 20.23 | 143.1 | 5029. |
| #3 | 4.218 | 50.87 | 10.10 | 19.10 | 162.7 | 5143. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4666.</b>  | <b>15.89</b>  | <b>4951.</b>  | <b>41.88</b>  | <b>9.560</b>  | <b>18.74</b>  |
| Stddev | 52.           | .20           | 49.           | .51           | .665          | .83           |
| %RSD   | 1.124         | 1.281         | .9864         | 1.229         | 6.956         | 4.420         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 4720. | 15.79 | 4898. | 41.52 | 8.810 | 19.48 |
| #2 | 4661. | 15.75 | 4962. | 42.47 | 10.08 | 17.85 |
| #3 | 4616. | 16.12 | 4993. | 41.66 | 9.792 | 18.90 |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCVL      Acquired: 3/4/2016 14:30:07      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 15.44         | 22.44         | 50.46         | 30.89         | 43.76         | 19.46         |
| Stddev | 2.64          | 2.84          | .50           | .17           | .47           | .15           |
| %RSD   | 17.07         | 12.66         | .9921         | .5501         | 1.077         | .7930         |
| #1     | 14.19         | 22.89         | 51.01         | 31.00         | 43.94         | 19.28         |
| #2     | 13.67         | 19.40         | 50.04         | 30.69         | 43.22         | 19.52         |
| #3     | 18.47         | 25.02         | 50.33         | 30.97         | 44.11         | 19.57         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | 51.20         | 21.25         | 19.96         | F 4.243       |
| Stddev | 1.27          | .04           | .28           | 22.16         |
| %RSD   | 2.477         | .1775         | 1.401         | 522.2         |
| #1     | 51.69         | 21.21         | 19.95         | 28.40         |
| #2     | 49.76         | 21.24         | 20.25         | -.5307        |
| #3     | 52.14         | 21.29         | 19.69         | -15.14        |

|         |          |          |          |          |
|---------|----------|----------|----------|----------|
| 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       | 2525.0        | 28812.        | 3852.8        |
| Stddev    | 48.7          | 253.          | 114.7         |
| %RSD      | 1.9295        | .87915        | 2.9763        |
| #1        | 2569.1        | 29067.        | 3955.6        |
| #2        | 2533.2        | 28809.        | 3873.7        |
| #3        | 2472.7        | 28560.        | 3729.1        |

Sample Name: 460-109586-D-3-A@2      Acquired: 3/4/2016 14:37:57      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>115.6</b>  | <b>7.491</b>  | <b>-6195</b>  | <b>80.86</b>  | <b>.0365</b>  | <b>53430.</b> |
| Stddev | 18.1          | .549          | .4326         | .35           | .0172         | 225.          |
| %RSD   | 15.63         | 7.334         | 69.84         | .4277         | 46.98         | .4203         |
| #1     | 94.80         | 7.294         | -.8308        | 80.49         | .0176         | 53370.        |
| #2     | 124.9         | 7.067         | -.1218        | 80.93         | .0511         | 53240.        |
| #3     | 127.2         | 8.112         | -.9059        | 81.17         | .0409         | 53680.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.4303</b> | <b>-.4694</b> | <b>1.051</b>  | <b>-4.615</b> | <b>33250.</b> | <b>6337.</b>  |
| Stddev | .0145         | .0620         | .569          | .392          | 212.          | 106.          |
| %RSD   | 3.369         | 13.20         | 54.09         | 8.484         | .6380         | 1.677         |
| #1     | -.4304        | -.5357        | 1.472         | -4.829        | 33070.        | 6216.         |
| #2     | -.4158        | -.4596        | 1.278         | -4.853        | 33190.        | 6380.         |
| #3     | -.4448        | -.4129        | .4043         | -4.163        | 33480.        | 6416.         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |                |               |               |               |
|--------|---------------|---------------|----------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895         | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57}  | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)       | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb            | ppb           | ppb           | ppb           |
| Avg    | <b>8253.</b>  | <b>326.1</b>  | <b>179900.</b> | <b>.0082</b>  | <b>-.8368</b> | <b>.7015</b>  |
| Stddev | 86.           | 2.2           | 1133.          | .4298         | .5812         | 1.302         |
| %RSD   | 1.045         | .6614         | .6299          | 5264.         | 69.46         | 185.6         |
| #1     | 8168.         | 324.2         | 178900.        | .3865         | -.3115        | .7908         |
| #2     | 8252.         | 325.6         | 179700.        | -.4592        | -1.461        | -.6427        |
| #3     | 8340.         | 328.5         | 181200.        | .0972         | -.7376        | 1.956         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109586-D-3-A@2      Acquired: 3/4/2016 14:37:57      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-3.751</b> | <b>-.3990</b> | <b>1.089</b>  | <b>1.074</b>  | <b>108.8</b>  | <b>-.0913</b> |
| Stddev | 1.109         | 1.935         | .102          | .018          | .1            | .2709         |
| %RSD   | 29.57         | 485.1         | 9.335         | 1.727         | .0934         | 296.9         |
| #1     | -4.176        | .0372         | 1.001         | 1.073         | 108.9         | .1803         |
| #2     | -2.492        | 1.281         | 1.066         | 1.056         | 108.9         | -.3615        |
| #3     | -4.585        | -2.515        | 1.200         | 1.093         | 108.7         | -.0925        |

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

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.5584</b>  | <b>384.1</b>  | <b>2.479</b>  | <b>6881.</b>  |
| Stddev | 1.211         | .9            | .195          | 25.           |
| %RSD   | 216.9         | .2311         | 7.850         | .3683         |
| #1     | 1.148         | 383.5         | 2.273         | 6852.         |
| #2     | 1.361         | 383.7         | 2.505         | 6900.         |
| #3     | -.8347        | 385.1         | 2.660         | 6892.         |

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       | <b>2419.6</b> | <b>28178.</b> | <b>3623.4</b> |
| Stddev    | 4.8           | 183.          | 12.9          |
| %RSD      | .19716        | .64966        | .35554        |
| #1        | 2415.4        | 27971.        | 3624.2        |
| #2        | 2418.7        | 28245.        | 3635.9        |
| #3        | 2424.8        | 28318.        | 3610.2        |



Sample Name: 460-109586-D-4-A@2      Acquired: 3/4/2016 14:41:51      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 143.2         | 5.425         | -6033         | 92.92         | .0062         | 68680.        |
| Stddev | 34.0          | 1.734         | .2604         | .10           | .1888         | 149.          |
| %RSD   | 23.75         | 31.96         | 43.15         | .1076         | 3040.         | .2166         |

|    |       |       |        |       |        |        |
|----|-------|-------|--------|-------|--------|--------|
| #1 | 111.4 | 3.594 | -.3356 | 92.92 | -.1767 | 68520. |
| #2 | 139.1 | 5.637 | -.8557 | 93.02 | .2004  | 68820. |
| #3 | 179.0 | 7.043 | -.6187 | 92.82 | -.0051 | 68690. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | -.9306        | -.7664        | .4908         | -4.430        | 42340.        | 5080.         |
| Stddev | .2131         | .2178         | .8209         | .311          | 158.          | 35.           |
| %RSD   | 22.90         | 28.42         | 167.3         | 7.030         | .3731         | .6839         |

|    |        |        |        |        |        |       |
|----|--------|--------|--------|--------|--------|-------|
| #1 | -.9561 | -.9955 | 1.432  | -4.633 | 42160. | 5080. |
| #2 | -.7059 | -.5621 | .1152  | -4.585 | 42460. | 5045. |
| #3 | -1.130 | -.7414 | -.0751 | -4.071 | 42400. | 5115. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 9839.         | 795.7         | 135500.       | -.7356        | 1.537         | -.0836        |
| Stddev | 66.           | 2.4           | 306.          | .5282         | 1.066         | .1860         |
| %RSD   | .6666         | .3025         | .2259         | 71.79         | 69.37         | 222.4         |

|    |       |       |         |        |       |        |
|----|-------|-------|---------|--------|-------|--------|
| #1 | 9785. | 796.7 | 135800. | -.8735 | .3170 | -.2423 |
| #2 | 9912. | 797.4 | 135500. | -.1522 | 2.005 | -.1295 |
| #3 | 9821. | 792.9 | 135200. | -1.181 | 2.290 | .1210  |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109586-D-4-A@2      Acquired: 3/4/2016 14:41:51      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.4407</b>  | <b>-.8467</b> | <b>1.080</b>  | <b>1.848</b>  | <b>341.7</b>  | <b>-.3075</b> |
| Stddev | 2.270         | 2.473         | .145          | .188          | 1.1           | .1222         |
| %RSD   | 515.1         | 292.0         | 13.46         | 10.16         | .3220         | 39.76         |
| #1     | <b>-.0188</b> | <b>-1.773</b> | <b>.9661</b>  | <b>1.633</b>  | <b>341.7</b>  | <b>-.1951</b> |
| #2     | <b>-1.565</b> | <b>-2.723</b> | <b>1.030</b>  | <b>1.928</b>  | <b>342.8</b>  | <b>-.2896</b> |
| #3     | <b>2.906</b>  | <b>1.955</b>  | <b>1.244</b>  | <b>1.982</b>  | <b>340.6</b>  | <b>-.4377</b> |

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

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.4622</b>  | <b>351.2</b>  | <b>2.658</b>  | <b>5284.</b>  |
| Stddev | .6796         | 1.9           | .039          | 98.           |
| %RSD   | 147.0         | .5321         | 1.476         | 1.850         |
| #1     | <b>1.230</b>  | <b>353.3</b>  | <b>2.623</b>  | <b>5383.</b>  |
| #2     | <b>-.0619</b> | <b>350.4</b>  | <b>2.651</b>  | <b>5188.</b>  |
| #3     | <b>.2186</b>  | <b>349.9</b>  | <b>2.700</b>  | <b>5281.</b>  |

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       | <b>2372.9</b> | <b>26889.</b> | <b>3443.3</b> |
| Stddev    | 18.5          | 270.          | 40.4          |
| %RSD      | .77919        | 1.0036        | 1.1720        |
| #1        | <b>2362.3</b> | <b>26952.</b> | <b>3444.4</b> |
| #2        | <b>2362.2</b> | <b>26593.</b> | <b>3402.5</b> |
| #3        | <b>2394.3</b> | <b>27122.</b> | <b>3483.2</b> |

Sample Name: 460-109586-D-6-A@2      Acquired: 3/4/2016 14:49:35      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>318.0</b>  | <b>2.594</b>  | <b>-3118</b>  | <b>15.92</b>  | <b>.0714</b>  | <b>1099.</b>  |
| Stddev | 4.8           | 1.031         | .4105         | .09           | .1083         | 7.            |
| %RSD   | 1.520         | 39.75         | 131.6         | .5818         | 151.7         | .6413         |
| #1     | 316.9         | 1.992         | -.7837        | 16.01         | -.0430        | 1107.         |
| #2     | 323.3         | 2.006         | -.0370        | 15.83         | .0847         | 1094.         |
| #3     | 313.8         | 3.785         | -.1148        | 15.92         | .1724         | 1096.         |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.0518</b> | <b>.3672</b>  | <b>2.182</b>  | <b>.7695</b>  | <b>1432.</b>  | <b>781.9</b>  |
| Stddev | .0843         | .1146         | .157          | .3005         | 9.            | 15.6          |
| %RSD   | 162.7         | 31.20         | 7.173         | 39.05         | .6530         | 1.996         |
| #1     | -.1268        | .4843         | 2.143         | .4302         | 1442.         | 799.5         |
| #2     | .0394         | .3618         | 2.049         | 1.002         | 1426.         | 776.9         |
| #3     | -.0681        | .2554         | 2.354         | .8765         | 1427.         | 769.5         |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>481.4</b>  | <b>32.81</b>  | <b>12470.</b> | <b>1.627</b>  | <b>1.126</b>  | <b>1.404</b>  |
| Stddev | 4.8           | .10           | 61.           | .214          | 1.206         | 2.186         |
| %RSD   | .9962         | .2990         | .4915         | 13.17         | 107.1         | 155.7         |
| #1     | 481.9         | 32.92         | 12410.        | 1.605         | -.0186        | .5027         |
| #2     | 485.9         | 32.79         | 12530.        | 1.424         | 1.012         | -.1868        |
| #3     | 476.3         | 32.73         | 12470.        | 1.851         | 2.386         | 3.897         |

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

Sample Name: 460-109586-D-6-A@2      Acquired: 3/4/2016 14:49:35      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.362</b> | <b>-3.364</b> | <b>3.468</b>  | <b>8.399</b>  | <b>10.48</b>  | <b>.1885</b>  |
| Stddev | .790          | 3.017         | .435          | .183          | .27           | .2075         |
| %RSD   | 33.44         | 89.71         | 12.54         | 2.174         | 2.585         | 110.1         |
| #1     | -2.208        | .1160         | 3.846         | 8.200         | 10.31         | .2786         |
| #2     | -1.661        | -5.257        | 3.565         | 8.559         | 10.34         | .3357         |
| #3     | -3.218        | -4.949        | 2.993         | 8.439         | 10.79         | -.0488        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.7542</b>  | <b>9.185</b>  | <b>4.421</b>  | <b>2878.</b>  |
| Stddev | .0635         | .074          | .071          | 35.           |
| %RSD   | 8.423         | .8041         | 1.604         | 1.227         |
| #1     | .6841         | 9.138         | 4.500         | 2847.         |
| #2     | .8079         | 9.147         | 4.362         | 2916.         |
| #3     | .7705         | 9.270         | 4.403         | 2870.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2413.4</b> | <b>28002.</b> | <b>3580.1</b> |
| Stddev    | 8.1           | 44.           | 33.5          |
| %RSD      | .33645        | .15820        | .93570        |
| #1        | 2421.3        | 28007.        | 3618.6        |
| #2        | 2405.1        | 28044.        | 3557.4        |
| #3        | 2413.7        | 27956.        | 3564.2        |

Sample Name: 460-109586-D-7-A@2      Acquired: 3/4/2016 14:53:29      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>68.77</b>  | <b>1.557</b>  | <b>-7836</b>  | <b>17.69</b>  | <b>-.0043</b> | <b>24170.</b> |
| Stddev | 20.28         | 1.650         | .3562         | .18           | .1853         | 173.          |
| %RSD   | 29.49         | 106.0         | 45.45         | 1.002         | 4348.         | .7146         |
| #1     | 45.40         | 2.201         | -.4730        | 17.70         | -.1078        | 23980.        |
| #2     | 81.67         | -.3180        | -.7056        | 17.51         | .2096         | 24300.        |
| #3     | 79.26         | 2.788         | -1.172        | 17.87         | -.1146        | 24240.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.3348</b> | <b>1.556</b>  | <b>1.279</b>  | <b>-2.983</b> | <b>11850.</b> | <b>820.0</b>  |
| Stddev | .1033         | .129          | .861          | .625          | 65.           | 68.6          |
| %RSD   | 30.84         | 8.318         | 67.28         | 20.95         | .5454         | 8.362         |
| #1     | -.4244        | 1.505         | .2855         | -3.622        | 11780.        | 899.2         |
| #2     | -.2219        | 1.459         | 1.789         | -2.373        | 11890.        | 778.4         |
| #3     | -.3582        | 1.703         | 1.763         | -2.955        | 11890.        | 782.5         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2701.</b>  | <b>144.1</b>  | <b>30560.</b> | <b>8.622</b>  | <b>.3301</b>  | <b>.5306</b>  |
| Stddev | 34.           | .3            | 250.          | .284          | 1.005         | 2.647         |
| %RSD   | 1.249         | .1915         | .8174         | 3.289         | 304.6         | 498.8         |
| #1     | 2667.         | 143.8         | 30670.        | 8.424         | 1.489         | -2.165        |
| #2     | 2703.         | 144.3         | 30740.        | 8.495         | -.3149        | .6315         |
| #3     | 2735.         | 144.3         | 30280.        | 8.947         | -.1833        | 3.125         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109586-D-7-A@2      Acquired: 3/4/2016 14:53:29      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.424</b> | <b>-3.088</b> | <b>.6698</b>  | <b>2.054</b>  | <b>127.1</b>  | <b>-.0793</b> |
| Stddev | .685          | 1.155         | .6012         | .330          | .4            | .4964         |
| %RSD   | 28.27         | 37.41         | 89.75         | 16.04         | .3381         | 625.9         |
| #1     | -2.494        | -2.005        | .4847         | 1.790         | 127.2         | -.2738        |
| #2     | -1.706        | -2.954        | 1.342         | 1.949         | 127.5         | -.4490        |
| #3     | -3.071        | -4.304        | .1830         | 2.423         | 126.7         | .4849         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.705</b>  | <b>116.4</b>  | <b>1.781</b>  | <b>3424.</b>  |
| Stddev | .455          | 1.3           | .038          | 20.           |
| %RSD   | 26.70         | 1.149         | 2.120         | .5952         |
| #1     | 1.215         | 117.1         | 1.774         | 3429.         |
| #2     | 2.115         | 117.1         | 1.821         | 3441.         |
| #3     | 1.785         | 114.8         | 1.747         | 3401.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2357.8</b> | <b>27108.</b> | <b>3488.9</b> |
| Stddev    | 34.4          | 624.          | 46.3          |
| %RSD      | 1.4598        | 2.3011        | 1.3260        |
| #1        | 2395.2        | 27828.        | 3530.5        |
| #2        | 2327.4        | 26767.        | 3497.3        |
| #3        | 2350.9        | 26729.        | 3439.1        |

Sample Name: 460-109470-E-7-B      Acquired: 3/4/2016 14:57:21      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-13.24</b> | <b>1.015</b>  | <b>-.4100</b> | <b>-.2453</b> | <b>.0806</b>  | <b>-28.39</b> |
| Stddev | 11.35         | 1.165         | .1719         | .0677         | .1172         | 2.86          |
| %RSD   | 85.73         | 114.8         | 41.93         | 27.58         | 145.4         | 10.09         |

|    |        |        |        |        |        |        |
|----|--------|--------|--------|--------|--------|--------|
| #1 | -4.948 | 2.166  | -.2868 | -.1946 | -.0381 | -31.68 |
| #2 | -26.18 | 1.041  | -.3368 | -.3222 | .0836  | -27.07 |
| #3 | -8.596 | -.1632 | -.6064 | -.2192 | .1962  | -26.43 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.0111</b>  | <b>-.1362</b> | <b>.7101</b>  | <b>-3.934</b> | <b>21.73</b>  | <b>-34.65</b> |
| Stddev | .0108         | .3632         | .3879         | .612          | 1.97          | 7.85          |
| %RSD   | 97.10         | 266.7         | 54.62         | 15.57         | 9.058         | 22.67         |

|    |       |        |       |        |       |        |
|----|-------|--------|-------|--------|-------|--------|
| #1 | .0235 | .2252  | 1.073 | -3.748 | 23.95 | -36.49 |
| #2 | .0054 | -.1326 | .7568 | -3.437 | 20.21 | -26.04 |
| #3 | .0044 | -.5012 | .3010 | -4.618 | 21.02 | -41.41 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.9297</b>  | <b>.2876</b>  | <b>35.50</b>  | <b>-1.286</b> | <b>-.3754</b> | <b>1.848</b>  |
| Stddev | 3.424         | .0702         | 5.96          | .691          | 1.187         | .990          |
| %RSD   | 368.3         | 24.43         | 16.79         | 53.74         | 316.2         | 53.58         |

|    |        |       |       |        |        |       |
|----|--------|-------|-------|--------|--------|-------|
| #1 | -.5676 | .3109 | 29.55 | -.8419 | .9919  | .7154 |
| #2 | 4.847  | .3432 | 35.47 | -2.082 | -1.141 | 2.550 |
| #3 | -1.490 | .2086 | 41.47 | -.9337 | -.9768 | 2.277 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109470-E-7-B      Acquired: 3/4/2016 14:57:21      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.253</b> | <b>-1.300</b> | <b>.0704</b>  | <b>3.390</b>  | <b>5.000</b>  | <b>.1951</b>  |
| Stddev | 3.001         | 3.014         | .5692         | .098          | .097          | .0661         |
| %RSD   | 133.2         | 231.8         | 808.6         | 2.883         | 1.948         | 33.89         |
| #1     | <b>-.5205</b> | <b>-2.566</b> | <b>.3090</b>  | <b>3.339</b>  | <b>4.911</b>  | <b>.1293</b>  |
| #2     | <b>-.5201</b> | <b>2.141</b>  | <b>.4815</b>  | <b>3.328</b>  | <b>5.104</b>  | <b>.2616</b>  |
| #3     | <b>-5.718</b> | <b>-3.475</b> | <b>-.5793</b> | <b>3.503</b>  | <b>4.985</b>  | <b>.1944</b>  |

|            |                 |                 |                 |                 |                 |                 |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Check ?    | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> |
| High Limit |                 |                 |                 |                 |                 |                 |
| Low Limit  |                 |                 |                 |                 |                 |                 |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.986</b>  | <b>.2523</b>  | <b>.2060</b>  | <b>80.01</b>  |
| Stddev | .393          | .0954         | .0827         | 25.84         |
| %RSD   | 19.78         | 37.82         | 40.16         | 32.29         |
| #1     | <b>1.815</b>  | <b>.3063</b>  | <b>.2992</b>  | <b>109.0</b>  |
| #2     | <b>2.436</b>  | <b>.3084</b>  | <b>.1415</b>  | <b>71.61</b>  |
| #3     | <b>1.708</b>  | <b>.1421</b>  | <b>.1771</b>  | <b>59.43</b>  |

|            |                 |                 |                 |                 |
|------------|-----------------|-----------------|-----------------|-----------------|
| Check ?    | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> |
| High Limit |                 |                 |                 |                 |
| Low Limit  |                 |                 |                 |                 |

| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
|-----------|---------------|---------------|---------------|
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2434.2</b> | <b>28477.</b> | <b>3677.2</b> |
| Stddev    | 9.0           | 445.          | 61.7          |
| %RSD      | .36936        | 1.5635        | 1.6774        |
| #1        | <b>2425.2</b> | <b>27996.</b> | <b>3606.4</b> |
| #2        | <b>2434.4</b> | <b>28562.</b> | <b>3719.0</b> |
| #3        | <b>2443.1</b> | <b>28874.</b> | <b>3706.3</b> |



Sample Name: 460-109586-D-1-A      Acquired: 3/4/2016 14:34:00      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>3.778</b>  | <b>.1983</b>  | <b>-.5680</b> | <b>.1986</b>  | <b>.0586</b>  | <b>-59.77</b> |
| Stddev | 9.190         | .6650         | .4093         | .8261         | .0846         | 3.43          |
| %RSD   | 243.2         | 335.4         | 72.06         | 416.0         | 144.3         | 5.733         |
| #1     | -6.650        | .6665         | -.3505        | -.2269        | -.0109        | -62.70        |
| #2     | 7.293         | .4912         | -1.040        | 1.151         | .1529         | -60.62        |
| #3     | 10.69         | -.5630        | -.3134        | -.3281        | .0339         | -56.00        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.1051</b>  | <b>.2198</b>  | <b>.2911</b>  | <b>-4.265</b> | <b>7.430</b>  | <b>-42.46</b> |
| Stddev | .1215         | .0540         | .2811         | .422          | 5.604         | 33.18         |
| %RSD   | 115.6         | 24.57         | 96.56         | 9.889         | 75.42         | 78.14         |
| #1     | .0778         | .2660         | -.0234        | -4.295        | 8.961         | -75.73        |
| #2     | .2379         | .1604         | .5179         | -4.671        | 1.219         | -9.372        |
| #3     | -.0005        | .2332         | .3787         | -3.829        | 12.11         | -42.29        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.665</b> | <b>.1423</b>  | <b>10.52</b>  | <b>-.9640</b> | <b>.8688</b>  | <b>1.849</b>  |
| Stddev | 5.680         | .0197         | 12.98         | .8355         | 1.723         | .655          |
| %RSD   | 213.1         | 13.82         | 123.3         | 86.67         | 198.3         | 35.41         |
| #1     | .5577         | .1246         | 22.44         | -.1087        | -1.006        | 1.526         |
| #2     | .6709         | .1634         | 12.44         | -1.005        | 2.382         | 1.418         |
| #3     | -9.223        | .1387         | -3.303        | -1.778        | 1.230         | 2.602         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109586-D-1-A      Acquired: 3/4/2016 14:34:00      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.5040</b>  | <b>-1.809</b> | <b>.3469</b>  | <b>1.082</b>  | <b>3.166</b>  | <b>.1478</b>  |
| Stddev | 3.984         | 1.269         | .0759         | .136          | .555          | .1969         |
| %RSD   | 790.5         | 70.13         | 21.88         | 12.59         | 17.53         | 133.2         |
| #1     | 1.446         | -2.219        | .3890         | .9457         | 2.566         | .3165         |
| #2     | -3.867        | -2.822        | .2593         | 1.218         | 3.271         | .1955         |
| #3     | 3.932         | -.3860        | .3925         | 1.083         | 3.661         | -.0686        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.5975</b>  | <b>.1310</b>  | <b>.2873</b>  | <b>54.64</b>  |
| Stddev | .2198         | .0920         | .1201         | 7.56          |
| %RSD   | 36.79         | 70.27         | 41.82         | 13.83         |
| #1     | .3965         | .2112         | .2778         | 49.39         |
| #2     | .8322         | .1511         | .4119         | 51.22         |
| #3     | .5637         | .0305         | .1721         | 63.30         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2359.6</b> | <b>27764.</b> | <b>3402.4</b> |
| Stddev    | 46.8          | 424.          | 169.3         |
| %RSD      | 1.9841        | 1.5264        | 4.9763        |
| #1        | 2306.5        | 28077.        | 3525.0        |
| #2        | 2395.0        | 27933.        | 3209.2        |
| #3        | 2377.3        | 27282.        | 3472.9        |

Sample Name: 460-109586-D-5-A@2      Acquired: 3/4/2016 14:45:43      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>704.3</b>  | <b>1.522</b>  | <b>.0425</b>  | <b>19.67</b>  | <b>.0751</b>  | <b>1350.</b>  |
| Stddev | 19.9          | 3.410         | .2947         | .30           | .0865         | 6.            |
| %RSD   | 2.831         | 224.0         | 694.0         | 1.511         | 115.1         | .4291         |

|    |       |        |        |       |        |       |
|----|-------|--------|--------|-------|--------|-------|
| #1 | 717.8 | -2.412 | .2838  | 19.34 | -.0060 | 1356. |
| #2 | 713.7 | 3.627  | -.2859 | 19.75 | .1661  | 1347. |
| #3 | 681.4 | 3.351  | .1295  | 19.92 | .0653  | 1345. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.0767</b>  | <b>1.081</b>  | <b>2.547</b>  | <b>19.18</b>  | <b>1807.</b>  | <b>847.3</b>  |
| Stddev | .0652         | .213          | .165          | .17           | 9.            | 9.4           |
| %RSD   | 84.91         | 19.69         | 6.469         | .8654         | .4822         | 1.112         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | .0254 | .8588 | 2.481 | 19.02 | 1813. | 845.3 |
| #2 | .0547 | 1.283 | 2.426 | 19.18 | 1797. | 839.0 |
| #3 | .1501 | 1.101 | 2.735 | 19.35 | 1812. | 857.6 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>455.6</b>  | <b>27.63</b>  | <b>11980.</b> | <b>4.628</b>  | <b>2.131</b>  | <b>.5327</b>  |
| Stddev | 4.8           | .07           | 72.           | .119          | .784          | .7296         |
| %RSD   | 1.053         | .2588         | .5972         | 2.568         | 36.79         | 137.0         |

|    |       |       |        |       |       |        |
|----|-------|-------|--------|-------|-------|--------|
| #1 | 450.1 | 27.70 | 12060. | 4.697 | 1.366 | .5587  |
| #2 | 458.8 | 27.56 | 11960. | 4.696 | 2.932 | -.2096 |
| #3 | 457.9 | 27.64 | 11920. | 4.490 | 2.095 | 1.249  |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109586-D-5-A@2      Acquired: 3/4/2016 14:45:43      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-1.658</b> | <b>.2809</b>  | <b>3.234</b>  | <b>192.9</b>  | <b>23.76</b>  | <b>.4246</b>  |
| Stddev | 3.622         | 2.430         | .127          | 1.0           | .14           | .1275         |
| %RSD   | 218.5         | 865.2         | 3.937         | .5069         | .6092         | 30.02         |
| #1     | -2.220        | -.0479        | 3.111         | 194.0         | 23.81         | .4297         |
| #2     | 2.212         | 2.859         | 3.226         | 192.1         | 23.88         | .2947         |
| #3     | -4.966        | -1.968        | 3.365         | 192.6         | 23.60         | .5495         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.1389</b> | <b>16.04</b>  | <b>8.387</b>  | <b>3088.</b>  |
| Stddev | .7117         | .00           | .154          | 57.           |
| %RSD   | 512.3         | .0288         | 1.839         | 1.840         |
| #1     | -.2028        | 16.04         | 8.405         | 3101.         |
| #2     | -.8165        | 16.05         | 8.224         | 3026.         |
| #3     | .6025         | 16.04         | 8.531         | 3138.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2487.1</b> | <b>27942.</b> | <b>3629.0</b> |
| Stddev    | 24.0          | 122.          | 62.8          |
| %RSD      | .96599        | .43552        | 1.7294        |
| #1        | 2466.6        | 27864.        | 3571.6        |
| #2        | 2513.5        | 27879.        | 3619.5        |
| #3        | 2481.0        | 28082.        | 3696.0        |

Sample Name: LCSSRM 460-354017/2-      Acquired: 3/4/2016 15:09:08      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>29680.</b> | <b>456.6</b>  | <b>190.8</b>  | <b>1547.</b>  | <b>338.9</b>  | <b>32740.</b> |
| Stddev | 95.           | 1.0           | 1.9           | 2.            | 1.9           | 582.          |
| %RSD   | .3205         | .2196         | .9806         | .1557         | .5488         | 1.776         |

|    |               |              |              |              |              |               |
|----|---------------|--------------|--------------|--------------|--------------|---------------|
| #1 | <b>29580.</b> | <b>455.7</b> | <b>189.0</b> | <b>1545.</b> | <b>337.4</b> | <b>32150.</b> |
| #2 | <b>29710.</b> | <b>457.6</b> | <b>190.8</b> | <b>1550.</b> | <b>341.0</b> | <b>32780.</b> |
| #3 | <b>29770.</b> | <b>456.3</b> | <b>192.7</b> | <b>1546.</b> | <b>338.2</b> | <b>33310.</b> |

|            |                 |                 |                 |                 |                 |                 |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Check ?    | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> |
| High Limit |                 |                 |                 |                 |                 |                 |
| Low Limit  |                 |                 |                 |                 |                 |                 |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>744.5</b>  | <b>845.5</b>  | <b>911.5</b>  | <b>518.3</b>  | <b>71390.</b> | <b>11890.</b> |
| Stddev | 4.1           | 1.8           | 12.7          | .6            | 1063.         | 60.           |
| %RSD   | .5464         | .2099         | 1.388         | .1183         | 1.489         | .5067         |

|    |              |              |              |              |               |               |
|----|--------------|--------------|--------------|--------------|---------------|---------------|
| #1 | <b>740.1</b> | <b>843.8</b> | <b>898.6</b> | <b>517.7</b> | <b>70280.</b> | <b>11830.</b> |
| #2 | <b>745.2</b> | <b>845.2</b> | <b>911.9</b> | <b>518.3</b> | <b>71500.</b> | <b>11910.</b> |
| #3 | <b>748.1</b> | <b>847.4</b> | <b>923.9</b> | <b>519.0</b> | <b>72400.</b> | <b>11950.</b> |

|            |                 |                 |                 |                 |                 |                 |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Check ?    | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> |
| High Limit |                 |                 |                 |                 |                 |                 |
| Low Limit  |                 |                 |                 |                 |                 |                 |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>10920.</b> | <b>2232.</b>  | <b>11990.</b> | <b>811.8</b>  | <b>609.9</b>  | <b>894.7</b>  |
| Stddev | 203.          | 24.           | 71.           | 2.5           | 3.0           | 2.9           |
| %RSD   | 1.856         | 1.063         | .5941         | .3046         | .5001         | .3272         |

|    |               |              |               |              |              |              |
|----|---------------|--------------|---------------|--------------|--------------|--------------|
| #1 | <b>10720.</b> | <b>2208.</b> | <b>11910.</b> | <b>809.1</b> | <b>606.8</b> | <b>891.4</b> |
| #2 | <b>10910.</b> | <b>2232.</b> | <b>12040.</b> | <b>812.5</b> | <b>610.1</b> | <b>895.4</b> |
| #3 | <b>11120.</b> | <b>2255.</b> | <b>12020.</b> | <b>813.9</b> | <b>612.9</b> | <b>897.2</b> |

|            |                 |                 |                 |                 |                 |                 |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Check ?    | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> |
| High Limit |                 |                 |                 |                 |                 |                 |
| Low Limit  |                 |                 |                 |                 |                 |                 |

Sample Name: LCSSRM 460-354017/2-      Acquired: 3/4/2016 15:09:08      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>696.2</b>  | <b>861.3</b>  | <b>496.5</b>  | <b>983.7</b>  | <b>638.3</b>  | <b>870.1</b>  |
| Stddev | 7.5           | 1.4           | 4.9           | 13.1          | 1.3           | 3.3           |
| %RSD   | 1.080         | .1662         | .9913         | 1.327         | .2046         | .3794         |
| #1     | 689.3         | 861.3         | 491.0         | 971.6         | 636.8         | 866.3         |
| #2     | 695.2         | 862.8         | 498.0         | 982.0         | 638.7         | 872.5         |
| #3     | 704.2         | 859.9         | 500.5         | 997.5         | 639.2         | 871.6         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>547.1</b>  | <b>437.7</b>  | <b>1644.</b>  | <b>2299.</b>  |
| Stddev | 3.6           | 1.8           | 13.           | 60.           |
| %RSD   | .6578         | .4118         | .7718         | 2.607         |
| #1     | 544.2         | 436.8         | 1630.         | 2355.         |
| #2     | 545.9         | 439.8         | 1648.         | 2305.         |
| #3     | 551.1         | 436.5         | 1655.         | 2236.         |

|            |          |          |          |      |
|------------|----------|----------|----------|------|
| 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       | <b>2496.7</b> | <b>28910.</b> | <b>3775.1</b> |
| Stddev    | 47.1          | 780.          | 95.2          |
| %RSD      | 1.8848        | 2.6973        | 2.5209        |
| #1        | 2535.6        | 29666.        | 3871.8        |
| #2        | 2510.1        | 28956.        | 3772.1        |
| #3        | 2444.3        | 28109.        | 3681.5        |

Sample Name: 460-109614-E-8-B      Acquired: 3/4/2016 15:01:17      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-7.079</b> | <b>1.006</b>  | <b>-.1341</b> | <b>-.1033</b> | <b>-.0561</b> | <b>-43.17</b> |
| Stddev | 5.617         | 1.613         | .1192         | .0730         | .1370         | 3.09          |
| %RSD   | 79.35         | 160.2         | 88.92         | 70.62         | 244.0         | 7.147         |
| #1     | -10.47        | .4507         | -.0189        | -.0299        | -.1873        | -40.86        |
| #2     | -.5954        | -.2547        | -.2570        | -.1758        | -.0671        | -41.97        |
| #3     | -10.17        | 2.824         | -.1263        | -.1043        | .0860         | -46.67        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.0927</b> | <b>.1537</b>  | <b>.7803</b>  | <b>-4.403</b> | <b>17.75</b>  | <b>-23.51</b> |
| Stddev | .1949         | .1502         | .2287         | .387          | 12.89         | 41.31         |
| %RSD   | 210.3         | 97.74         | 29.31         | 8.787         | 72.61         | 175.7         |
| #1     | -.1662        | .1776         | .8180         | -4.321        | 20.03         | -16.01        |
| #2     | -.2401        | .2905         | .9879         | -4.825        | 3.875         | 13.54         |
| #3     | .1283         | -.0071        | .5352         | -4.064        | 29.35         | -68.05        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.779</b> | <b>.2653</b>  | <b>23.45</b>  | <b>-.7149</b> | <b>-.3506</b> | <b>1.483</b>  |
| Stddev | 3.173         | .0281         | .71           | .5980         | 1.082         | 2.329         |
| %RSD   | 114.2         | 10.60         | 3.031         | 83.64         | 308.6         | 157.0         |
| #1     | .7984         | .2333         | 23.45         | -.2591        | -1.599        | -.7708        |
| #2     | -3.880        | .2762         | 24.17         | -1.392        | .3039         | 3.880         |
| #3     | -5.255        | .2863         | 22.74         | -.4937        | .2437         | 1.341         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109614-E-8-B      Acquired: 3/4/2016 15:01:17      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-1.876</b> | <b>-4.481</b> | <b>.0120</b>  | <b>1.477</b>  | <b>6.310</b>  | <b>.1311</b>  |
| Stddev | 1.231         | .276          | .4930         | .064          | .558          | .2661         |
| %RSD   | 65.61         | 6.164         | 4092.         | 4.305         | 8.845         | 203.0         |
| #1     | -4.800        | -4.670        | .2920         | 1.498         | 6.900         | .1075         |
| #2     | -2.342        | -4.609        | .3014         | 1.406         | 6.241         | -.1224        |
| #3     | -2.805        | -4.164        | -.5572        | 1.527         | 5.790         | .4083         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.6780</b>  | <b>.0715</b>  | <b>.0045</b>  | <b>55.34</b>  |
| Stddev | .9814         | .1672         | .1573         | 16.23         |
| %RSD   | 144.7         | 233.8         | 3489.         | 29.33         |
| #1     | -.0518        | .2408         | .0746         | 36.90         |
| #2     | .2921         | -.0936        | -.1757        | 61.70         |
| #3     | 1.794         | .0674         | .1146         | 67.43         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2417.1</b> | <b>28313.</b> | <b>3608.8</b> |
| Stddev    | 9.4           | 333.          | 49.3          |
| %RSD      | .39029        | 1.1766        | 1.3651        |
| #1        | 2418.1        | 28691.        | 3659.6        |
| #2        | 2426.1        | 28064.        | 3605.7        |
| #3        | 2407.3        | 28184.        | 3561.2        |



Sample Name: CCV      Acquired: 3/4/2016 15:12:44      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |                |               |               |               |               |                |
|--------|----------------|---------------|---------------|---------------|---------------|----------------|
| Elem   | Al3961         | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181         |
| Line   | 396.152 { 85}  | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106}  |
| IS Ref | (Y_3710)       | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)       |
| Units  | ppb            | ppb           | ppb           | ppb           | ppb           | ppb            |
| Avg    | <b>134200.</b> | <b>2355.</b>  | <b>1198.</b>  | <b>10600.</b> | <b>1056.</b>  | <b>128600.</b> |
| Stddev | 893.           | 21.           | 16.           | 20.           | 12.           | 2998.          |
| %RSD   | .6656          | .8984         | 1.335         | .1870         | 1.095         | 2.331          |

|    |         |       |       |        |       |         |
|----|---------|-------|-------|--------|-------|---------|
| #1 | 133500. | 2380. | 1215. | 10580. | 1046. | 132000. |
| #2 | 134000. | 2345. | 1196. | 10610. | 1055. | 127600. |
| #3 | 135200. | 2342. | 1184. | 10610. | 1069. | 126200. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>1311.</b>  | <b>2590.</b>  | <b>4809.</b>  | <b>12790.</b> | <b>98630.</b> | <b>55220.</b> |
| Stddev | 4.            | 1.            | 100.          | 67.           | 2048.         | 484.          |
| %RSD   | .2776         | .0558         | 2.083         | .5224         | 2.077         | .8765         |

|    |       |       |       |        |         |        |
|----|-------|-------|-------|--------|---------|--------|
| #1 | 1315. | 2591. | 4919. | 12710. | 100900. | 54810. |
| #2 | 1309. | 2590. | 4787. | 12830. | 98040.  | 55100. |
| #3 | 1308. | 2589. | 4723. | 12830. | 96940.  | 55750. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>117200.</b> | <b>5296.</b>  | <b>131400.</b> | <b>2693.</b>  | <b>7321.</b>  | <b>1028.</b>  |
| Stddev | 3017.          | 60.           | 507.           | 2.            | 38.           | 3.            |
| %RSD   | 2.576          | 1.136         | .3859          | .0893         | .5246         | .3381         |

|    |         |       |         |       |       |       |
|----|---------|-------|---------|-------|-------|-------|
| #1 | 120500. | 5365. | 131100. | 2690. | 7364. | 1032. |
| #2 | 116300. | 5273. | 131200. | 2694. | 7304. | 1026. |
| #3 | 114700. | 5251. | 132000. | 2694. | 7293. | 1025. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCV      Acquired: 3/4/2016 15:12:44      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 2413.         | 2524.         | 2588.         | 2550.         | 965.0         | 2626.         |
| Stddev | 31.           | 6.            | 19.           | 29.           | 2.6           | 7.            |
| %RSD   | 1.280         | .2513         | .7164         | 1.132         | .2686         | .2639         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 2447. | 2531. | 2608. | 2583. | 966.1 | 2618. |
| #2 | 2402. | 2523. | 2585. | 2534. | 966.8 | 2627. |
| #3 | 2388. | 2518. | 2572. | 2532. | 962.0 | 2631. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | 1061.         | F 5564.       | 10000.        | 10150.        |
| Stddev | 5.            | 64.           | 74.           | 246.          |
| %RSD   | .4886         | 1.157         | .7391         | 2.422         |

|    |       |       |        |        |
|----|-------|-------|--------|--------|
| #1 | 1066. | 5498. | 10080. | 9862.  |
| #2 | 1062. | 5567. | 9989.  | 10280. |
| #3 | 1055. | 5626. | 9936.  | 10300. |

|         |          |          |          |      |
|---------|----------|----------|----------|------|
| Check ? | Chk Pass | Chk Fail | Chk Pass | None |
| Value   |          | 5000.    |          |      |
| Range   |          | 10.50%   |          |      |

|           |               |               |               |
|-----------|---------------|---------------|---------------|
| 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       | 2288.6        | 26798.        | 3439.0        |
| Stddev    | 46.5          | 1232.         | 123.9         |
| %RSD      | 2.0318        | 4.5982        | 3.6019        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2235.1 | 25447. | 3296.0 |
| #2 | 2311.9 | 27089. | 3511.6 |
| #3 | 2318.9 | 27859. | 3509.5 |

Sample Name: MB 460-354017/1-A@2      Acquired: 3/4/2016 15:05:13      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-8.126</b> | <b>1.599</b>  | <b>-.6548</b> | <b>-.0214</b> | <b>.0464</b>  | <b>-75.77</b> |
| Stddev | 2.120         | .975          | .3135         | .1381         | .0088         | 4.25          |
| %RSD   | 26.10         | 60.96         | 47.87         | 644.5         | 18.95         | 5.610         |
| #1     | -6.222        | 1.014         | -.7520        | -.1348        | .0419         | -80.68        |
| #2     | -10.41        | 1.059         | -.9083        | -.0618        | .0565         | -73.48        |
| #3     | -7.744        | 2.725         | -.3043        | .1324         | .0407         | -73.17        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>.1510</b>  | <b>.3188</b>  | <b>.4748</b>  | <b>-5.032</b> | <b>-2.376</b> | <b>-62.48</b> |
| Stddev | .1332         | .1171         | .5721         | .603          | 9.110         | 32.40         |
| %RSD   | 88.23         | 36.72         | 120.5         | 11.98         | 383.4         | 51.86         |
| #1     | .0637         | .1878         | 1.126         | -4.809        | 6.280         | -91.93        |
| #2     | .3044         | .4133         | .0520         | -5.715        | -1.528        | -67.74        |
| #3     | .0849         | .3553         | .2465         | -4.573        | -11.88        | -27.76        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-3.725</b> | <b>.0861</b>  | <b>1.482</b>  | <b>-.5622</b> | <b>.3996</b>  | <b>.3625</b>  |
| Stddev | 2.713         | .0778         | 10.61         | .4922         | 1.350         | 1.744         |
| %RSD   | 72.85         | 90.33         | 715.7         | 87.56         | 337.8         | 481.0         |
| #1     | -1.127        | .1758         | 13.71         | -.1595        | 1.939         | -1.523        |
| #2     | -3.507        | .0457         | -4.030        | -1.111        | -.1587        | .6938         |
| #3     | -6.541        | .0369         | -5.235        | -.4162        | -.5816        | 1.917         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: MB 460-354017/1-A@2      Acquired: 3/4/2016 15:05:13      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-1.748</b> | <b>-.4230</b> | <b>.2452</b>  | <b>.6713</b>  | <b>-.7399</b> | <b>-.0236</b> |
| Stddev | 1.444         | 2.521         | .4473         | .1087         | .1513         | .0324         |
| %RSD   | 82.60         | 596.0         | 182.4         | 16.19         | 20.45         | 136.9         |
| #1     | -3.347        | -3.068        | .1995         | .7498         | -.6958        | -.0398        |
| #2     | -.5391        | 1.952         | .7136         | .5473         | -.9084        | -.0447        |
| #3     | -1.358        | -.1532        | -.1774        | .7170         | -.6155        | .0136         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.1806</b>  | <b>.1153</b>  | <b>.0211</b>  | <b>2.171</b>  |
| Stddev | .2691         | .1642         | .2288         | 19.47         |
| %RSD   | 149.0         | 142.5         | 1084.         | 896.8         |
| #1     | .3352         | -.0351        | .2536         | -19.54        |
| #2     | -.1301        | .0905         | .0135         | 7.954         |
| #3     | .3368         | .2904         | -.2039        | 18.10         |

|            |          |          |          |      |
|------------|----------|----------|----------|------|
| 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       | <b>2497.0</b> | <b>28265.</b> | <b>3587.9</b> |
| Stddev    | 37.8          | 1279.         | 190.1         |
| %RSD      | 1.5137        | 4.5255        | 5.2986        |
| #1        | 2454.9        | 26834.        | 3382.8        |
| #2        | 2508.0        | 28664.        | 3622.7        |
| #3        | 2528.1        | 29297.        | 3758.2        |

Sample Name: CCB      Acquired: 3/4/2016 15:16:15      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |                |               |               |               |
|--------|---------------|---------------|----------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280         | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103}  | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)       | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb            | ppb           | ppb           | ppb           |
| Avg    | <b>2.508</b>  | <b>1.209</b>  | <b>-1.1975</b> | <b>.3461</b>  | <b>.1956</b>  | <b>-77.27</b> |
| Stddev | 12.45         | .305          | .1121          | .2067         | .1450         | 5.82          |
| %RSD   | 496.4         | 25.20         | 56.76          | 59.73         | 74.13         | 7.529         |

|    |        |       |        |       |       |        |
|----|--------|-------|--------|-------|-------|--------|
| #1 | 2.566  | .9872 | -.1085 | .5679 | .3271 | -81.58 |
| #2 | 14.93  | 1.556 | -.3233 | .3113 | .0400 | -70.65 |
| #3 | -9.972 | 1.082 | -.1606 | .1589 | .2198 | -79.56 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.0800</b>  | <b>.4693</b>  | <b>.5297</b>  | <b>-3.934</b> | <b>2.861</b>  | <b>-66.89</b> |
| Stddev | .0956         | .2670         | .2179         | .504          | 3.405         | 46.54         |
| %RSD   | 119.5         | 56.89         | 41.13         | 12.82         | 119.0         | 69.57         |

|    |        |       |       |        |       |        |
|----|--------|-------|-------|--------|-------|--------|
| #1 | .0832  | .5253 | .2944 | -4.130 | 1.671 | -97.74 |
| #2 | -.0172 | .7038 | .7244 | -3.362 | 6.701 | -13.37 |
| #3 | .1739  | .1787 | .5703 | -4.311 | .2102 | -89.58 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2.727</b>  | <b>.5741</b>  | <b>12.35</b>  | <b>-.6979</b> | <b>.9468</b>  | <b>1.801</b>  |
| Stddev | 8.151         | .3084         | 9.66          | .7134         | .3640         | .856          |
| %RSD   | 298.9         | 53.72         | 78.19         | 102.2         | 38.44         | 47.52         |

|    |        |       |       |        |       |       |
|----|--------|-------|-------|--------|-------|-------|
| #1 | 4.479  | .6148 | 21.66 | .1223  | 1.346 | 1.349 |
| #2 | 9.859  | .8601 | 13.01 | -1.174 | .8620 | 1.266 |
| #3 | -6.157 | .2474 | 2.380 | -1.042 | .6327 | 2.788 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: CCB      Acquired: 3/4/2016 15:16:15      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-3.627</b> | <b>-2.112</b> | <b>.1980</b>  | <b>.1420</b>  | <b>1.114</b>  | <b>1.174</b>  |
| Stddev | .564          | .444          | .3814         | .1330         | .581          | .370          |
| %RSD   | 15.55         | 21.00         | 192.7         | 93.65         | 52.15         | 31.49         |
| #1     | -4.189        | -2.624        | .3551         | .0733         | 1.652         | 1.564         |
| #2     | -3.630        | -1.855        | .4757         | .2953         | 1.192         | 1.131         |
| #3     | -3.061        | -1.857        | -.2370        | .0574         | .4978         | .8281         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.7679</b>  | <b>.3201</b>  | <b>.9756</b>  | <b>.7004</b>  |
| Stddev | .3641         | .4196         | .8200         | 17.07         |
| %RSD   | 47.41         | 131.1         | 84.04         | 2437.         |
| #1     | .5530         | .6966         | 1.394         | 19.48         |
| #2     | 1.188         | .3958         | 1.502         | -13.87        |
| #3     | .5624         | -.1322        | .0309         | -3.503        |

|            |          |          |          |      |
|------------|----------|----------|----------|------|
| 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       | <b>2378.8</b> | <b>27857.</b> | <b>3463.9</b> |
| Stddev    | 20.4          | 90.           | 36.2          |
| %RSD      | .85860        | .32474        | 1.0443        |
| #1        | 2356.6        | 27958.        | 3494.1        |
| #2        | 2396.7        | 27827.        | 3423.8        |
| #3        | 2383.3        | 27785.        | 3473.8        |

Sample Name: CCVL      Acquired: 3/4/2016 15:20:12      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>226.6</b>  | <b>15.16</b>  | <b>9.218</b>  | <b>214.0</b>  | <b>2.306</b>  | <b>5169.</b>  |
| Stddev | 14.8          | 1.78          | .274          | .5            | .027          | 9.            |
| %RSD   | 6.537         | 11.74         | 2.976         | .2160         | 1.176         | .1667         |
| #1     | 212.3         | 17.13         | 9.131         | 213.5         | 2.318         | 5179.         |
| #2     | 225.6         | 14.66         | 8.998         | 214.0         | 2.325         | 5162.         |
| #3     | 241.8         | 13.68         | 9.526         | 214.5         | 2.275         | 5168.         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4.476</b>  | <b>53.40</b>  | <b>10.35</b>  | <b>20.86</b>  | <b>160.5</b>  | <b>5377.</b>  |
| Stddev | .024          | .19           | .61           | .31           | 2.4           | 32.           |
| %RSD   | .5291         | .3586         | 5.869         | 1.508         | 1.506         | .5927         |
| #1     | 4.499         | 53.44         | 9.644         | 20.93         | 157.9         | 5349.         |
| #2     | 4.451         | 53.20         | 10.69         | 20.51         | 160.8         | 5371.         |
| #3     | 4.477         | 53.58         | 10.70         | 21.13         | 162.7         | 5412.         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4734.</b>  | <b>16.86</b>  | <b>5242.</b>  | <b>44.47</b>  | <b>10.12</b>  | <b>20.16</b>  |
| Stddev | 18.           | .13           | 11.           | .34           | .43           | .72           |
| %RSD   | .3811         | .7715         | .2192         | .7549         | 4.293         | 3.591         |
| #1     | 4747.         | 16.72         | 5245.         | 44.34         | 9.997         | 20.30         |
| #2     | 4714.         | 16.98         | 5252.         | 44.85         | 10.61         | 20.81         |
| #3     | 4742.         | 16.89         | 5230.         | 44.22         | 9.763         | 19.38         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCVL      Acquired: 3/4/2016 15:20:12      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 17.31         | 20.05         | 53.01         | 32.42         | 45.94         | 20.62         |
| Stddev | 3.18          | 4.82          | .55           | .29           | .63           | .16           |
| %RSD   | 18.36         | 24.03         | 1.042         | .8907         | 1.364         | .7599         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 20.98 | 17.61 | 53.51 | 32.56 | 46.52 | 20.54 |
| #2 | 15.27 | 25.60 | 52.42 | 32.62 | 45.27 | 20.80 |
| #3 | 15.69 | 16.94 | 53.08 | 32.09 | 46.02 | 20.52 |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | 53.72         | 22.96         | 20.73         | F 1.661       |
| Stddev | 1.31          | .03           | .11           | 17.45         |
| %RSD   | 2.441         | .1152         | .5167         | 1050.         |

|    |       |       |       |        |
|----|-------|-------|-------|--------|
| #1 | 52.35 | 22.96 | 20.77 | 1.032  |
| #2 | 53.84 | 22.98 | 20.60 | -15.46 |
| #3 | 54.96 | 22.93 | 20.80 | 19.41  |

|         |          |          |          |          |
|---------|----------|----------|----------|----------|
| 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       | 2417.4        | 28011.        | 3508.6        |
| Stddev    | 4.9           | 122.          | 44.3          |
| %RSD      | .20319        | .43528        | 1.2620        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2413.5 | 27942. | 3555.0 |
| #2 | 2422.9 | 27940. | 3466.8 |
| #3 | 2415.8 | 28152. | 3504.1 |



Sample Name: 460-109595-A-3-A@4      Acquired: 3/4/2016 15:27:54      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>53380.</b> | <b>19.62</b>  | <b>-.3139</b> | <b>94.65</b>  | <b>.8347</b>  | <b>896.7</b>  |
| Stddev | 161.          | 1.87          | .4042         | .57           | .0791         | 12.2          |
| %RSD   | .3024         | 9.507         | 128.8         | .6074         | 9.481         | 1.363         |
| #1     | 53230.        | 20.74         | -.7773        | 94.98         | .8973         | 886.9         |
| #2     | 53370.        | 17.46         | -.1303        | 93.99         | .8610         | 892.8         |
| #3     | 53550.        | 20.65         | -.0340        | 94.99         | .7457         | 910.4         |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-1.233</b> | <b>7.865</b>  | <b>14.79</b>  | <b>20.86</b>  | <b>44330.</b> | <b>341.0</b>  |
| Stddev | .051          | .152          | .83           | .27           | 535.          | 77.0          |
| %RSD   | 4.138         | 1.933         | 5.641         | 1.293         | 1.206         | 22.59         |
| #1     | -1.243        | 7.690         | 13.94         | 20.63         | 44090.        | 379.4         |
| #2     | -1.177        | 7.968         | 14.81         | 20.79         | 43960.        | 391.4         |
| #3     | -1.278        | 7.936         | 15.61         | 21.15         | 44940.        | 252.4         |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>222.9</b>  | <b>4031.</b>  | <b>99.65</b>  | <b>11.25</b>  | <b>12.96</b>  | <b>2.406</b>  |
| Stddev | 2.1           | 35.           | 12.52         | .77           | 1.08          | 1.700         |
| %RSD   | .9339         | .8581         | 12.56         | 6.852         | 8.323         | 70.67         |
| #1     | 220.5         | 4021.         | 114.1         | 10.36         | 12.46         | 4.173         |
| #2     | 224.1         | 4002.         | 92.51         | 11.68         | 14.20         | .7813         |
| #3     | 224.1         | 4069.         | 92.33         | 11.70         | 12.22         | 2.264         |

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

Sample Name: 460-109595-A-3-A@4      Acquired: 3/4/2016 15:27:54      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-6.580</b> | <b>-6.708</b> | <b>23.67</b>  | <b>32.59</b>  | <b>1.823</b>  | <b>2.739</b>  |
| Stddev | 1.754         | 3.434         | .79           | .30           | .101          | .067          |
| %RSD   | 266.6         | 51.19         | 3.317         | .9344         | 5.554         | 2.432         |
| #1     | -2.592        | -6.242        | 22.79         | 32.24         | 1.933         | 2.815         |
| #2     | -.2116        | -3.531        | 23.93         | 32.82         | 1.801         | 2.715         |
| #3     | .8301         | -10.35        | 24.30         | 32.69         | 1.734         | 2.688         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2.693</b>  | <b>14.42</b>  | <b>216.2</b>  | <b>1166.</b>  |
| Stddev | .854          | .08           | 1.6           | 21.           |
| %RSD   | 31.70         | .5297         | .7517         | 1.816         |
| #1     | 2.334         | 14.49         | 216.0         | 1185.         |
| #2     | 2.077         | 14.44         | 214.8         | 1143.         |
| #3     | 3.667         | 14.34         | 218.0         | 1169.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2401.0</b> | <b>27769.</b> | <b>3544.3</b> |
| Stddev    | 26.2          | 596.          | 24.3          |
| %RSD      | 1.0909        | 2.1445        | .68439        |
| #1        | 2410.0        | 28080.        | 3571.5        |
| #2        | 2421.4        | 28144.        | 3536.5        |
| #3        | 2371.4        | 27082.        | 3524.9        |

Sample Name: 460-109595-A-3-C MS      Acquired: 3/4/2016 15:35:38      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 54470.        | 926.1         | 23.57         | 1155.         | 28.13         | 11550.        |
| Stddev | 711.          | 7.2           | .72           | 10.           | .23           | 80.           |
| %RSD   | 1.305         | .7752         | 3.041         | .8814         | .8165         | .6949         |

|    |        |       |       |       |       |        |
|----|--------|-------|-------|-------|-------|--------|
| #1 | 53670. | 921.1 | 24.10 | 1144. | 28.01 | 11540. |
| #2 | 54700. | 934.4 | 23.85 | 1157. | 27.98 | 11630. |
| #3 | 55030. | 923.0 | 22.75 | 1164. | 28.39 | 11470. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 25.64         | 272.0         | 117.9         | 148.3         | 42960.        | 10790.        |
| Stddev | .23           | 2.2           | .5            | 1.0           | 241.          | 207.          |
| %RSD   | .8968         | .7908         | .4064         | .6681         | .5610         | 1.918         |

|    |       |       |       |       |        |        |
|----|-------|-------|-------|-------|--------|--------|
| #1 | 25.37 | 269.6 | 117.8 | 147.8 | 42970. | 10590. |
| #2 | 25.74 | 272.6 | 118.4 | 147.6 | 43200. | 10790. |
| #3 | 25.80 | 273.8 | 117.5 | 149.4 | 42720. | 11000. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 9741.         | 4224.         | 10670.        | 291.4         | 245.1         | 216.4         |
| Stddev | 81.           | 31.           | 78.           | 2.9           | 3.3           | 1.9           |
| %RSD   | .8281         | .7451         | .7328         | .9842         | 1.326         | .8909         |

|    |       |       |        |       |       |       |
|----|-------|-------|--------|-------|-------|-------|
| #1 | 9814. | 4188. | 10580. | 288.2 | 243.4 | 215.3 |
| #2 | 9756. | 4246. | 10720. | 292.1 | 243.0 | 215.3 |
| #3 | 9655. | 4238. | 10720. | 293.8 | 248.8 | 218.6 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109595-A-3-C MS      Acquired: 3/4/2016 15:35:38      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>898.7</b>  | <b>995.7</b>  | <b>289.5</b>  | <b>300.1</b>  | <b>232.0</b>  | <b>259.2</b>  |
| Stddev | 2.3           | 4.7           | 1.7           | .9            | 1.7           | 2.9           |
| %RSD   | .2612         | .4728         | .5748         | .3121         | .7420         | 1.114         |
| #1     | 898.5         | 992.6         | 287.7         | 299.0         | 230.0         | 255.9         |
| #2     | 901.1         | 993.4         | 290.8         | 300.7         | 233.3         | 260.9         |
| #3     | 896.4         | 1001.         | 290.2         | 300.5         | 232.6         | 260.8         |

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    | <b>270.5</b>  | <b>294.9</b>  | <b>425.8</b>  | <b>1891.</b>  |
| Stddev | 2.3           | 2.2           | 1.5           | 26.           |
| %RSD   | .8437         | .7504         | .3595         | 1.383         |
| #1     | 268.4         | 292.7         | 424.0         | 1874.         |
| #2     | 270.2         | 294.9         | 426.9         | 1878.         |
| #3     | 273.0         | 297.1         | 426.4         | 1921.         |

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       | <b>2272.4</b> | <b>26186.</b> | <b>3323.7</b> |
| Stddev    | 15.8          | 402.          | 81.9          |
| %RSD      | .69603        | 1.5362        | 2.4631        |
| #1        | 2282.7        | 26277.        | 3410.4        |
| #2        | 2254.1        | 25746.        | 3247.8        |
| #3        | 2280.2        | 26535.        | 3312.8        |

Sample Name: pds 460-109595-A-3-A      Acquired: 3/4/2016 15:39:21      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 54010.        | 1745.         | 44.21         | 2067.         | 52.24         | 20090.        |
| Stddev | 248.          | 16.           | .75           | 4.            | .27           | 41.           |
| %RSD   | .4598         | .9124         | 1.703         | .2146         | .5186         | .2045         |

|    |        |       |       |       |       |        |
|----|--------|-------|-------|-------|-------|--------|
| #1 | 54200. | 1733. | 43.66 | 2071. | 52.50 | 20100. |
| #2 | 53730. | 1739. | 45.07 | 2066. | 51.96 | 20040. |
| #3 | 54110. | 1763. | 43.90 | 2063. | 52.26 | 20120. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 48.57         | 501.2         | 202.5         | 259.4         | 43120.        | 19770.        |
| Stddev | .10           | .9            | .8            | 1.0           | 88.           | 126.          |
| %RSD   | .2152         | .1738         | .3959         | .4028         | .2037         | .6390         |

|    |       |       |       |       |        |        |
|----|-------|-------|-------|-------|--------|--------|
| #1 | 48.56 | 500.3 | 201.8 | 259.3 | 43030. | 19920. |
| #2 | 48.68 | 501.3 | 203.4 | 260.4 | 43130. | 19680. |
| #3 | 48.47 | 502.0 | 202.4 | 258.4 | 43200. | 19720. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 17270.        | 4375.         | 19790.        | 531.2         | 453.6         | 463.9         |
| Stddev | 44.           | 4.            | 81.           | 1.7           | 2.2           | 3.3           |
| %RSD   | .2542         | .0990         | .4102         | .3192         | .4795         | .7193         |

|    |        |       |        |       |       |       |
|----|--------|-------|--------|-------|-------|-------|
| #1 | 17260. | 4371. | 19850. | 531.2 | 453.4 | 463.2 |
| #2 | 17230. | 4380. | 19700. | 529.5 | 451.6 | 461.0 |
| #3 | 17320. | 4374. | 19820. | 532.9 | 455.9 | 467.6 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: pds 460-109595-A-3-A      Acquired: 3/4/2016 15:39:21      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 1736.         | 1883.         | 519.3         | 523.5         | 438.8         | 492.5         |
| Stddev | 18.           | 3.            | 2.0           | 2.9           | 3.5           | 1.0           |
| %RSD   | 1.027         | .1408         | .3871         | .5555         | .7878         | .1943         |
| #1     | 1723.         | 1883.         | 517.6         | 521.7         | 436.6         | 492.9         |
| #2     | 1729.         | 1885.         | 521.5         | 521.9         | 436.9         | 493.1         |
| #3     | 1756.         | 1880.         | 518.9         | 526.9         | 442.8         | 491.4         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | 510.0         | 540.8         | 681.4         | 1203.         |
| Stddev | 1.7           | 1.7           | .7            | 8.            |
| %RSD   | .3238         | .3096         | .1061         | .7009         |
| #1     | 508.6         | 542.6         | 680.5         | 1203.         |
| #2     | 509.4         | 539.3         | 681.8         | 1194.         |
| #3     | 511.8         | 540.4         | 681.8         | 1211.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | 2381.7        | 27817.        | 3487.5        |
| Stddev    | 28.6          | 84.           | 100.5         |
| %RSD      | 1.2002        | .30068        | 2.8813        |
| #1        | 2401.2        | 27858.        | 3371.5        |
| #2        | 2394.9        | 27872.        | 3547.8        |
| #3        | 2348.9        | 27721.        | 3543.2        |

Sample Name: 460-109595-A-3-B DU      Acquired: 3/4/2016 15:24:03      Type: Unk

Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000

User: admin      Custom ID1:      Custom ID2:      Custom ID3:

Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>54020.</b> | <b>17.86</b>  | <b>-6934</b>  | <b>95.00</b>  | <b>.7264</b>  | <b>911.7</b>  |
| Stddev | 195.          | 2.56          | .6399         | .05           | .1281         | 6.8           |
| %RSD   | .3614         | 14.32         | 92.29         | .0562         | 17.64         | .7426         |

|    |        |       |        |       |       |       |
|----|--------|-------|--------|-------|-------|-------|
| #1 | 53840. | 18.46 | -1.426 | 94.98 | .7772 | 906.2 |
| #2 | 54230. | 20.06 | -.2439 | 95.06 | .8214 | 919.3 |
| #3 | 53990. | 15.05 | -.4102 | 94.96 | .5807 | 909.6 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-1.312</b> | <b>7.453</b>  | <b>14.26</b>  | <b>20.96</b>  | <b>45040.</b> | <b>305.2</b>  |
| Stddev | .008          | .112          | .55           | .42           | 159.          | 43.1          |
| %RSD   | .5991         | 1.504         | 3.878         | 1.996         | .3537         | 14.12         |

|    |        |       |       |       |        |       |
|----|--------|-------|-------|-------|--------|-------|
| #1 | -1.321 | 7.525 | 14.86 | 21.11 | 44860. | 313.3 |
| #2 | -1.306 | 7.324 | 14.14 | 20.49 | 45090. | 258.7 |
| #3 | -1.310 | 7.511 | 13.78 | 21.29 | 45170. | 343.7 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>224.5</b>  | <b>4085.</b>  | <b>98.57</b>  | <b>11.50</b>  | <b>12.40</b>  | <b>2.012</b>  |
| Stddev | 6.2           | 18.           | 11.11         | .53           | 1.88          | .431          |
| %RSD   | 2.767         | .4405         | 11.27         | 4.580         | 15.19         | 21.41         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 231.4 | 4065. | 109.7 | 11.47 | 12.27 | 2.420 |
| #2 | 222.5 | 4091. | 98.57 | 10.99 | 14.34 | 2.056 |
| #3 | 219.4 | 4099. | 87.47 | 12.04 | 10.58 | 1.562 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109595-A-3-B DU      Acquired: 3/4/2016 15:24:03      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2.3194</b> | <b>-6.526</b> | <b>23.79</b>  | <b>33.40</b>  | <b>2.460</b>  | <b>2.595</b>  |
| Stddev | .3831         | 2.015         | .37           | .21           | .404          | .618          |
| %RSD   | 120.0         | 30.88         | 1.535         | .6292         | 16.41         | 23.82         |
| #1     | .2600         | -6.961        | 23.51         | 33.17         | 2.888         | 3.110         |
| #2     | -.0306        | -8.288        | 23.66         | 33.47         | 2.406         | 1.910         |
| #3     | .7288         | -4.329        | 24.21         | 33.58         | 2.086         | 2.766         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2.765</b>  | <b>14.44</b>  | <b>217.2</b>  | <b>1164.</b>  |
| Stddev | 1.348         | .06           | .1            | 15.           |
| %RSD   | 48.77         | .4027         | .0632         | 1.302         |
| #1     | 3.939         | 14.51         | 217.2         | 1181.         |
| #2     | 1.292         | 14.43         | 217.1         | 1152.         |
| #3     | 3.063         | 14.39         | 217.3         | 1159.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2300.7</b> | <b>26294.</b> | <b>3316.6</b> |
| Stddev    | 7.1           | 206.          | 38.1          |
| %RSD      | .30760        | .78371        | 1.1479        |
| #1        | 2306.8        | 26521.        | 3360.5        |
| #2        | 2302.4        | 26244.        | 3297.4        |
| #3        | 2292.9        | 26118.        | 3292.1        |



Sample Name: 460-109600-A-24-A@4      Acquired: 3/4/2016 15:50:32      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>49040.</b> | <b>35.54</b>  | <b>-4676</b>  | <b>146.3</b>  | <b>2.336</b>  | <b>8425.</b>  |
| Stddev | 236.          | .63           | .1982         | .5            | .032          | 43.           |
| %RSD   | .4811         | 1.764         | 42.38         | .3607         | 1.377         | .5063         |

|    |        |       |        |       |       |       |
|----|--------|-------|--------|-------|-------|-------|
| #1 | 49060. | 35.06 | -.5814 | 145.7 | 2.349 | 8443. |
| #2 | 48790. | 35.32 | -.2388 | 146.3 | 2.299 | 8456. |
| #3 | 49260. | 36.25 | -.5827 | 146.8 | 2.359 | 8377. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.655</b>  | <b>44.34</b>  | <b>59.90</b>  | <b>129.2</b>  | <b>87930.</b> | <b>1852.</b>  |
| Stddev | .111          | .35           | .40           | .7            | 208.          | 14.           |
| %RSD   | 6.685         | .7799         | .6666         | .5564         | .2370         | .7794         |

|    |       |       |       |       |        |       |
|----|-------|-------|-------|-------|--------|-------|
| #1 | 1.630 | 44.07 | 59.78 | 129.5 | 88160. | 1867. |
| #2 | 1.558 | 44.21 | 60.35 | 129.8 | 87760. | 1838. |
| #3 | 1.776 | 44.73 | 59.58 | 128.4 | 87860. | 1850. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>9678.</b>  | <b>1879.</b>  | <b>44.30</b>  | <b>76.00</b>  | <b>242.4</b>  | <b>.8054</b>  |
| Stddev | 41.           | 4.            | 9.89          | .46           | 3.2           | 2.584         |
| %RSD   | .4229         | .2023         | 22.32         | .6019         | 1.301         | 320.9         |

|    |       |       |       |       |       |        |
|----|-------|-------|-------|-------|-------|--------|
| #1 | 9719. | 1883. | 39.71 | 75.91 | 245.2 | -1.510 |
| #2 | 9678. | 1875. | 37.53 | 75.59 | 238.9 | .3322  |
| #3 | 9637. | 1881. | 55.65 | 76.49 | 243.0 | 3.594  |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109600-A-24-A@4      Acquired: 3/4/2016 15:50:32      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2.327</b>  | <b>-5.540</b> | <b>68.65</b>  | <b>1195.</b>  | <b>-.1912</b> | <b>1.809</b>  |
| Stddev | 4.921         | 1.728         | .48           | 4.            | .6273         | .237          |
| %RSD   | 211.5         | 31.20         | .7049         | .3609         | 328.1         | 13.08         |
| #1     | -3.346        | -4.591        | 68.09         | 1199.         | .3279         | 1.583         |
| #2     | 4.875         | -7.535        | 68.85         | 1190.         | -.0132        | 1.789         |
| #3     | 5.451         | -4.494        | 69.00         | 1196.         | -.8883        | 2.055         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.855</b>  | <b>42.94</b>  | <b>282.2</b>  | <b>957.8</b>  |
| Stddev | 1.075         | .36           | 1.1           | 11.8          |
| %RSD   | 22.15         | .8413         | .4056         | 1.227         |
| #1     | 6.061         | 43.14         | 283.4         | 950.8         |
| #2     | 4.509         | 42.52         | 281.1         | 951.3         |
| #3     | 3.996         | 43.16         | 282.1         | 971.4         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2512.8</b> | <b>28678.</b> | <b>3736.0</b> |
| Stddev    | 13.9          | 193.          | 39.1          |
| %RSD      | .55223        | .67440        | 1.0469        |
| #1        | 2497.0        | 28462.        | 3694.5        |
| #2        | 2523.0        | 28835.        | 3772.2        |
| #3        | 2518.3        | 28737.        | 3741.1        |

Sample Name: 460-109600-A-28-A@4      Acquired: 3/4/2016 15:58:08      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>48660.</b> | <b>33.24</b>  | <b>-3789</b>  | <b>130.8</b>  | <b>2.380</b>  | <b>8163.</b>  |
| Stddev | 306.          | 2.55          | .1893         | .4            | .110          | 46.           |
| %RSD   | .6286         | 7.666         | 49.96         | .3094         | 4.609         | .5596         |

|    |        |       |        |       |       |       |
|----|--------|-------|--------|-------|-------|-------|
| #1 | 49020. | 30.30 | -.4581 | 130.5 | 2.254 | 8209. |
| #2 | 48510. | 34.61 | -.5156 | 130.5 | 2.440 | 8117. |
| #3 | 48470. | 34.80 | -.1628 | 131.2 | 2.447 | 8162. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.155</b>  | <b>37.18</b>  | <b>55.58</b>  | <b>75.76</b>  | <b>83150.</b> | <b>1981.</b>  |
| Stddev | .288          | .29           | .34           | .34           | 534.          | 22.           |
| %RSD   | 24.98         | .7720         | .6140         | .4424         | .6416         | 1.129         |

|    |       |       |       |       |        |       |
|----|-------|-------|-------|-------|--------|-------|
| #1 | .8224 | 37.04 | 55.82 | 75.44 | 83430. | 1970. |
| #2 | 1.340 | 37.52 | 55.19 | 75.74 | 82530. | 2007. |
| #3 | 1.302 | 37.00 | 55.72 | 76.11 | 83480. | 1967. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>10120.</b> | <b>1518.</b>  | <b>40.06</b>  | <b>68.10</b>  | <b>78.50</b>  | <b>.9604</b>  |
| Stddev | 71.           | 6.            | 13.90         | .13           | 2.11          | 1.894         |
| %RSD   | .7014         | .3982         | 34.69         | .1900         | 2.685         | 197.2         |

|    |        |       |       |       |       |        |
|----|--------|-------|-------|-------|-------|--------|
| #1 | 10140. | 1524. | 48.22 | 67.98 | 77.56 | 2.881  |
| #2 | 10040. | 1512. | 47.93 | 68.24 | 77.03 | -.9059 |
| #3 | 10180. | 1518. | 24.01 | 68.08 | 80.92 | .9059  |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109600-A-28-A@4      Acquired: 3/4/2016 15:58:08      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.658</b>  | <b>-6.301</b> | <b>73.70</b>  | <b>649.6</b>  | <b>-.3654</b> | <b>2.380</b>  |
| Stddev | 3.279         | 3.000         | .55           | 5.4           | 1.267         | .242          |
| %RSD   | 197.8         | 47.61         | .7471         | .8259         | 346.7         | 10.18         |
| #1     | .3247         | -8.491        | 73.22         | 655.0         | -1.784        | 2.563         |
| #2     | -.7445        | -2.882        | 73.58         | 644.3         | .6520         | 2.471         |
| #3     | 5.393         | -7.529        | 74.30         | 649.5         | .0361         | 2.105         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>3.189</b>  | <b>44.31</b>  | <b>387.1</b>  | <b>949.9</b>  |
| Stddev | .274          | .23           | 1.5           | 10.1          |
| %RSD   | 8.590         | .5120         | .3898         | 1.065         |
| #1     | 3.017         | 44.38         | 386.6         | 955.4         |
| #2     | 3.505         | 44.49         | 385.9         | 956.2         |
| #3     | 3.045         | 44.05         | 388.8         | 938.2         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2512.9</b> | <b>28741.</b> | <b>3788.1</b> |
| Stddev    | 57.9          | 686.          | 107.7         |
| %RSD      | 2.3032        | 2.3856        | 2.8427        |
| #1        | 2446.7        | 27979.        | 3680.1        |
| #2        | 2553.9        | 29308.        | 3895.5        |
| #3        | 2538.2        | 28935.        | 3788.6        |

Sample Name: sd 460-109595-A-3-A      Acquired: 3/4/2016 15:31:45      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>10240.</b> | <b>5.066</b>  | <b>-9828</b>  | <b>17.90</b>  | <b>.1786</b>  | <b>120.9</b>  |
| Stddev | 34.           | 1.712         | .4221         | .10           | .1053         | 5.3           |
| %RSD   | .3283         | 33.80         | 42.95         | .5740         | 58.98         | 4.402         |
| #1     | 10250.        | 3.127         | -1.072        | 17.84         | .1083         | 115.2         |
| #2     | 10260.        | 6.373         | -.5232        | 17.84         | .2997         | 121.9         |
| #3     | 10200.        | 5.696         | -1.353        | 18.02         | .1278         | 125.7         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.2679</b> | <b>1.627</b>  | <b>3.013</b>  | <b>.5364</b>  | <b>8709.</b>  | <b>58.25</b>  |
| Stddev | .0723         | .126          | .122          | .5145         | 30.           | 25.37         |
| %RSD   | 27.00         | 7.764         | 4.042         | 95.92         | .3432         | 43.55         |
| #1     | -.2988        | 1.773         | 3.149         | .1535         | 8675.         | 83.99         |
| #2     | -.3196        | 1.542         | 2.976         | .3345         | 8732.         | 57.47         |
| #3     | -.1852        | 1.568         | 2.914         | 1.121         | 8719.         | 33.28         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>40.66</b>  | <b>768.0</b>  | <b>15.99</b>  | <b>1.856</b>  | <b>2.553</b>  | <b>1.128</b>  |
| Stddev | 2.15          | 2.8           | 5.10          | .510          | .465          | .877          |
| %RSD   | 5.299         | .3633         | 31.88         | 27.49         | 18.23         | 77.68         |
| #1     | 41.69         | 770.0         | 10.12         | 1.478         | 3.055         | .1474         |
| #2     | 38.18         | 769.3         | 18.46         | 1.654         | 2.135         | 1.403         |
| #3     | 42.09         | 764.8         | 19.37         | 2.436         | 2.471         | 1.835         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: sd 460-109595-A-3-A      Acquired: 3/4/2016 15:31:45      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-1.169</b> | <b>-.4239</b> | <b>4.532</b>  | <b>6.654</b>  | <b>-.0523</b> | <b>.5447</b>  |
| Stddev | 2.466         | 1.923         | .331          | .193          | .4456         | .1396         |
| %RSD   | 211.0         | 453.7         | 7.304         | 2.897         | 851.6         | 25.64         |
| #1     | -3.755        | -2.402        | 4.895         | 6.865         | -.4017        | .6783         |
| #2     | 1.157         | -.3072        | 4.455         | 6.607         | .4495         | .3997         |
| #3     | -.9072        | 1.438         | 4.246         | 6.489         | -.2048        | .5561         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.4536</b>  | <b>2.866</b>  | <b>41.45</b>  | <b>219.8</b>  |
| Stddev | .6047         | .133          | .24           | 29.8          |
| %RSD   | 133.3         | 4.626         | .5734         | 13.57         |
| #1     | -.2270        | 2.828         | 41.22         | 242.3         |
| #2     | .6588         | 3.013         | 41.70         | 231.3         |
| #3     | .9290         | 2.756         | 41.43         | 186.0         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |
| Low Limit  |          |          |          |          |

|           |               |               |               |
|-----------|---------------|---------------|---------------|
| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2482.9</b> | <b>28429.</b> | <b>3600.5</b> |
| Stddev    | 28.9          | 340.          | 35.1          |
| %RSD      | 1.1654        | 1.1945        | .97540        |
| #1        | 2467.5        | 28483.        | 3636.1        |
| #2        | 2465.0        | 28065.        | 3565.8        |
| #3        | 2516.3        | 28738.        | 3599.5        |

Sample Name: 460-109600-A-20-A@4      Acquired: 3/4/2016 15:42:56      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>60340.</b> | <b>56.41</b>  | <b>-7.577</b> | <b>156.3</b>  | <b>2.391</b>  | <b>5371.</b>  |
| Stddev | 302.          | 1.08          | .3978         | .3            | .036          | 51.           |
| %RSD   | .5005         | 1.917         | 52.50         | .1765         | 1.515         | .9412         |

|    |        |       |        |       |       |       |
|----|--------|-------|--------|-------|-------|-------|
| #1 | 60470. | 55.20 | -.3779 | 156.1 | 2.349 | 5330. |
| #2 | 60560. | 56.75 | -.7238 | 156.1 | 2.411 | 5355. |
| #3 | 60000. | 57.29 | -1.171 | 156.6 | 2.413 | 5427. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-1.630</b> | <b>35.79</b>  | <b>63.61</b>  | <b>60.24</b>  | <b>99450.</b> | <b>2061.</b>  |
| Stddev | .160          | .11           | .45           | .36           | 1038.         | 47.           |
| %RSD   | 9.809         | .2998         | .7045         | .6035         | 1.044         | 2.262         |

|    |        |       |       |       |         |       |
|----|--------|-------|-------|-------|---------|-------|
| #1 | -1.474 | 35.91 | 63.41 | 60.65 | 98720.  | 2110. |
| #2 | -1.622 | 35.70 | 63.29 | 59.94 | 98990.  | 2057. |
| #3 | -1.793 | 35.77 | 64.12 | 60.14 | 100600. | 2017. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>6659.</b>  | <b>1653.</b>  | <b>43.54</b>  | <b>58.71</b>  | <b>124.0</b>  | <b>3.847</b>  |
| Stddev | 88.           | 11.           | 9.59          | .41           | 1.3           | 1.234         |
| %RSD   | 1.317         | .6457         | 22.02         | .7063         | 1.082         | 32.07         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 6586. | 1644. | 43.26 | 58.92 | 124.5 | 4.151 |
| #2 | 6634. | 1651. | 53.26 | 58.98 | 122.5 | 2.489 |
| #3 | 6756. | 1665. | 34.09 | 58.23 | 125.1 | 4.900 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109600-A-20-A@4      Acquired: 3/4/2016 15:42:56      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.211</b>  | <b>-5.631</b> | <b>98.15</b>  | <b>295.5</b>  | <b>-.3667</b> | <b>3.013</b>  |
| Stddev | 2.855         | 1.792         | .14           | 2.3           | .7398         | .384          |
| %RSD   | 235.7         | 31.82         | .1425         | .7691         | 201.7         | 12.75         |
| #1     | 2.403         | -5.091        | 98.10         | 293.7         | .4732         | 2.980         |
| #2     | -2.046        | -4.171        | 98.05         | 294.8         | -.9218        | 3.412         |
| #3     | 3.276         | -7.630        | 98.31         | 298.1         | -.6516        | 2.646         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>3.765</b>  | <b>37.10</b>  | <b>255.9</b>  | <b>1186.</b>  |
| Stddev | .804          | .38           | .9            | 27.           |
| %RSD   | 21.37         | 1.032         | .3580         | 2.263         |
| #1     | 3.002         | 37.01         | 255.4         | 1157.         |
| #2     | 4.605         | 37.52         | 255.2         | 1210.         |
| #3     | 3.686         | 36.77         | 256.9         | 1190.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2480.8</b> | <b>28752.</b> | <b>3699.1</b> |
| Stddev    | 11.3          | 607.          | 30.8          |
| %RSD      | .45668        | 2.1126        | .83233        |
| #1        | 2488.4        | 29228.        | 3727.6        |
| #2        | 2486.3        | 28961.        | 3703.1        |
| #3        | 2467.8        | 28068.        | 3666.5        |



Sample Name: CCVL      Acquired: 3/4/2016 16:09:30      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>227.5</b>  | <b>16.72</b>  | <b>9.378</b>  | <b>212.8</b>  | <b>2.204</b>  | <b>5276.</b>  |
| Stddev | 14.7          | 2.44          | .187          | 1.2           | .064          | 27.           |
| %RSD   | 6.467         | 14.57         | 1.998         | .5817         | 2.898         | .5093         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 212.9 | 13.90 | 9.366 | 214.0 | 2.177 | 5245. |
| #2 | 227.3 | 18.15 | 9.197 | 213.0 | 2.277 | 5290. |
| #3 | 242.4 | 18.10 | 9.571 | 211.5 | 2.158 | 5293. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4.452</b>  | <b>53.73</b>  | <b>10.84</b>  | <b>22.23</b>  | <b>164.3</b>  | <b>5364.</b>  |
| Stddev | .034          | .27           | .56           | .57           | 4.5           | 17.           |
| %RSD   | .7592         | .4942         | 5.144         | 2.545         | 2.750         | .3196         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 4.413 | 53.93 | 10.59 | 21.93 | 159.4 | 5384. |
| #2 | 4.470 | 53.43 | 11.47 | 21.87 | 165.3 | 5356. |
| #3 | 4.473 | 53.83 | 10.44 | 22.88 | 168.2 | 5352. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4949.</b>  | <b>16.89</b>  | <b>5256.</b>  | <b>44.62</b>  | <b>11.95</b>  | <b>20.95</b>  |
| Stddev | 25.           | .17           | 22.           | .18           | 1.18          | 1.92          |
| %RSD   | .5086         | .9864         | .4178         | .3971         | 9.871         | 9.179         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 4924. | 16.70 | 5281. | 44.42 | 12.40 | 21.80 |
| #2 | 4948. | 17.00 | 5242. | 44.71 | 12.83 | 18.75 |
| #3 | 4974. | 16.97 | 5246. | 44.73 | 10.61 | 22.30 |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCVL      Acquired: 3/4/2016 16:09:30      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 17.07         | 19.98         | 53.48         | 33.18         | 46.86         | 20.78         |
| Stddev | 2.75          | .19           | .20           | .60           | .78           | .31           |
| %RSD   | 16.11         | .9394         | .3680         | 1.793         | 1.668         | 1.475         |
| #1     | 18.47         | 20.07         | 53.49         | 32.55         | 45.98         | 21.07         |
| #2     | 13.90         | 19.76         | 53.28         | 33.26         | 47.12         | 20.82         |
| #3     | 18.83         | 20.10         | 53.68         | 33.73         | 47.47         | 20.46         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | 53.90         | 22.66         | 21.30         | F 11.67       |
| Stddev | .80           | .22           | .21           | 14.78         |
| %RSD   | 1.476         | .9888         | .9790         | 126.6         |
| #1     | 53.68         | 22.87         | 21.06         | 7.796         |
| #2     | 53.24         | 22.68         | 21.47         | -.7862        |
| #3     | 54.79         | 22.42         | 21.36         | 28.00         |

|         |          |          |          |          |
|---------|----------|----------|----------|----------|
| 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       | 2386.9        | 27238.        | 3578.4        |
| Stddev    | 26.4          | 170.          | 70.0          |
| %RSD      | 1.1046        | .62242        | 1.9556        |
| #1        | 2410.1        | 27431.        | 3640.3        |
| #2        | 2392.4        | 27174.        | 3592.3        |
| #3        | 2358.2        | 27111.        | 3502.5        |

Sample Name: 460-109600-A-22-A@4      Acquired: 3/4/2016 15:46:45      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>50460.</b> | <b>32.17</b>  | <b>-4555</b>  | <b>147.4</b>  | <b>2.149</b>  | <b>2993.</b>  |
| Stddev | 137.          | 1.51          | .4148         | .4            | .042          | 49.           |
| %RSD   | .2722         | 4.709         | 91.06         | .2617         | 1.962         | 1.636         |

|    |        |       |        |       |       |       |
|----|--------|-------|--------|-------|-------|-------|
| #1 | 50620. | 33.51 | -.8734 | 147.3 | 2.124 | 2940. |
| #2 | 50350. | 32.48 | -.0438 | 147.1 | 2.197 | 3002. |
| #3 | 50410. | 30.53 | -.4494 | 147.9 | 2.124 | 3037. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>8.173</b>  | <b>33.87</b>  | <b>67.80</b>  | <b>338.8</b>  | <b>86180.</b> | <b>1985.</b>  |
| Stddev | .139          | .56           | 1.04          | 1.4           | 956.          | 43.           |
| %RSD   | 1.703         | 1.653         | 1.528         | .3990         | 1.109         | 2.172         |

|    |       |       |       |       |        |       |
|----|-------|-------|-------|-------|--------|-------|
| #1 | 8.299 | 34.28 | 66.63 | 338.7 | 85210. | 2007. |
| #2 | 8.195 | 33.23 | 68.19 | 340.1 | 86210. | 2013. |
| #3 | 8.024 | 34.10 | 68.59 | 337.4 | 87120. | 1936. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>6814.</b>  | <b>1270.</b>  | <b>45.35</b>  | <b>59.16</b>  | <b>196.1</b>  | <b>.4506</b>  |
| Stddev | 108.          | 10.           | 1.55          | .86           | .5            | 2.012         |
| %RSD   | 1.580         | .7704         | 3.425         | 1.462         | .2480         | 446.5         |

|    |       |       |       |       |       |        |
|----|-------|-------|-------|-------|-------|--------|
| #1 | 6693. | 1259. | 47.01 | 59.95 | 196.7 | 2.769  |
| #2 | 6850. | 1274. | 45.11 | 59.31 | 195.8 | -.8396 |
| #3 | 6899. | 1278. | 43.93 | 58.23 | 195.9 | -.5774 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109600-A-22-A@4      Acquired: 3/4/2016 15:46:45      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem       | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line       | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref     | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units      | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg        | 1.596         | -4.853        | 80.37         | F 9957.       | -.0263        | .2095         |
| Stddev     | 2.472         | .341          | .64           | 87.           | .6105         | .5412         |
| %RSD       | 154.9         | 7.019         | .8020         | .8707         | 2318.         | 258.4         |
| #1         | 4.219         | -5.216        | 79.79         | 9873.         | .0702         | .8195         |
| #2         | -.6907        | -4.803        | 81.07         | 9951.         | .5301         | .0218         |
| #3         | 1.261         | -4.540        | 80.25         | 10050.        | -.6793        | -.2129        |
| 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        | 5.300         | 22.89         | 256.5         | 1089.         |
| Stddev     | 1.888         | .19           | 1.1           | 11.           |
| %RSD       | 35.62         | .8096         | .4277         | 1.020         |
| #1         | 4.358         | 23.04         | 255.3         | 1099.         |
| #2         | 7.473         | 22.95         | 256.9         | 1090.         |
| #3         | 4.068         | 22.69         | 257.4         | 1077.         |
| 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       | 2457.1        | 28086.        | 3659.9        |
| Stddev    | 28.4          | 641.          | 79.9          |
| %RSD      | 1.1549        | 2.2813        | 2.1831        |
| #1        | 2486.0        | 28735.        | 3740.6        |
| #2        | 2456.0        | 28069.        | 3658.2        |
| #3        | 2429.3        | 27454.        | 3580.9        |

Sample Name: 460-109600-A-26-A@4      Acquired: 3/4/2016 15:54:21      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>32090.</b> | <b>35.83</b>  | <b>-.2084</b> | <b>159.7</b>  | <b>1.885</b>  | <b>6662.</b>  |
| Stddev | 20.           | 2.12          | .3806         | .8            | .019          | 21.           |
| %RSD   | .0613         | 5.930         | 182.6         | .4708         | 1.018         | .3178         |
| #1     | 32080.        | 36.76         | -.2662        | 159.7         | 1.903         | 6664.         |
| #2     | 32070.        | 37.32         | .1978         | 158.9         | 1.886         | 6682.         |
| #3     | 32110.        | 33.40         | -.5568        | 160.4         | 1.865         | 6640.         |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>12.40</b>  | <b>51.39</b>  | <b>1261.</b>  | <b>1247.</b>  | <b>54920.</b> | <b>1659.</b>  |
| Stddev | .14           | .35           | 8.            | 4.            | 199.          | 8.            |
| %RSD   | 1.155         | .6836         | .6101         | .3109         | .3622         | .4970         |
| #1     | 12.49         | 51.01         | 1259.         | 1242.         | 54880.        | 1662.         |
| #2     | 12.23         | 51.46         | 1270.         | 1249.         | 55140.        | 1665.         |
| #3     | 12.47         | 51.71         | 1255.         | 1248.         | 54750.        | 1650.         |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>14080.</b> | <b>1464.</b>  | <b>59.01</b>  | <b>83.54</b>  | <b>6505.</b>  | <b>54.77</b>  |
| Stddev | 30.           | 4.            | 5.17          | .70           | 11.           | .13           |
| %RSD   | .2106         | .2765         | 8.763         | .8383         | .1704         | .2430         |
| #1     | 14100.        | 1462.         | 54.26         | 83.05         | 6498.         | 54.93         |
| #2     | 14100.        | 1468.         | 64.52         | 83.22         | 6500.         | 54.70         |
| #3     | 14050.        | 1461.         | 58.26         | 84.34         | 6518.         | 54.69         |

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

Sample Name: 460-109600-A-26-A@4      Acquired: 3/4/2016 15:54:21      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |                 |               |               |
|--------|---------------|---------------|---------------|-----------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062          | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463}   | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)        | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb             | ppb           | ppb           |
| Avg    | <b>.2290</b>  | <b>-5.031</b> | <b>71.06</b>  | <b>F 19060.</b> | <b>4.384</b>  | <b>290.9</b>  |
| Stddev | 3.239         | .363          | .95           | 25.             | .415          | 1.0           |
| %RSD   | 1414.         | 7.213         | 1.332         | .1298           | 9.459         | .3331         |
| #1     | -2.660        | -5.408        | 71.88         | 19080.          | 4.857         | 290.2         |
| #2     | 3.730         | -4.684        | 71.27         | 19040.          | 4.083         | 290.4         |
| #3     | -.3835        | -5.001        | 70.02         | 19080.          | 4.213         | 292.0         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>6.690</b>  | <b>46.54</b>  | <b>530.1</b>  | <b>1139.</b>  |
| Stddev | .157          | .13           | 1.0           | 15.           |
| %RSD   | 2.343         | .2864         | .1953         | 1.356         |
| #1     | 6.617         | 46.54         | 529.0         | 1152.         |
| #2     | 6.584         | 46.66         | 531.0         | 1122.         |
| #3     | 6.870         | 46.40         | 530.4         | 1142.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2467.8</b> | <b>28293.</b> | <b>3659.4</b> |
| Stddev    | 9.8           | 400.          | 79.7          |
| %RSD      | .39574        | 1.4150        | 2.1778        |
| #1        | 2457.0        | 28010.        | 3622.6        |
| #2        | 2470.2        | 28117.        | 3604.7        |
| #3        | 2476.1        | 28751.        | 3750.8        |

Sample Name: CCV      Acquired: 3/4/2016 16:02:01      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |                |               |               |               |               |                |
|--------|----------------|---------------|---------------|---------------|---------------|----------------|
| Elem   | Al3961         | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181         |
| Line   | 396.152 { 85}  | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106}  |
| IS Ref | (Y_3710)       | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)       |
| Units  | ppb            | ppb           | ppb           | ppb           | ppb           | ppb            |
| Avg    | <b>130200.</b> | <b>2436.</b>  | <b>1225.</b>  | <b>10530.</b> | <b>1016.</b>  | <b>131300.</b> |
| Stddev | 2871.          | 18.           | 3.            | 67.           | 22.           | 555.           |
| %RSD   | 2.206          | .7446         | .2257         | .6372         | 2.165         | .4229          |

|    |         |       |       |        |       |         |
|----|---------|-------|-------|--------|-------|---------|
| #1 | 126900. | 2417. | 1222. | 10450. | 990.3 | 131900. |
| #2 | 131300. | 2453. | 1224. | 10560. | 1026. | 131000. |
| #3 | 132300. | 2437. | 1228. | 10570. | 1030. | 130900. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>1317.</b>  | <b>2587.</b>  | <b>4961.</b>  | <b>12690.</b> | <b>101500.</b> | <b>53590.</b> |
| Stddev | 7.            | 17.           | 12.           | 120.          | 222.           | 1210.         |
| %RSD   | .5255         | .6624         | .2443         | .9472         | .2188          | 2.258         |

|    |       |       |       |        |         |        |
|----|-------|-------|-------|--------|---------|--------|
| #1 | 1310. | 2567. | 4962. | 12570. | 101600. | 52230. |
| #2 | 1323. | 2600. | 4948. | 12690. | 101300. | 53960. |
| #3 | 1316. | 2593. | 4973. | 12810. | 101700. | 54560. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>122400.</b> | <b>5302.</b>  | <b>128900.</b> | <b>2673.</b>  | <b>7481.</b>  | <b>1025.</b>  |
| Stddev | 178.           | 13.           | 2516.          | 16.           | 48.           | 8.            |
| %RSD   | .1458          | .2425         | 1.952          | .5806         | .6413         | .7675         |

|    |         |       |         |       |       |       |
|----|---------|-------|---------|-------|-------|-------|
| #1 | 122600. | 5297. | 126100. | 2655. | 7427. | 1016. |
| #2 | 122300. | 5293. | 129800. | 2685. | 7518. | 1031. |
| #3 | 122300. | 5317. | 130800. | 2678. | 7496. | 1028. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCV      Acquired: 3/4/2016 16:02:01      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2481.</b>  | <b>2549.</b>  | <b>2593.</b>  | <b>2616.</b>  | <b>976.6</b>  | <b>2611.</b>  |
| Stddev | 14.           | 14.           | 7.            | 18.           | 12.5          | 22.           |
| %RSD   | .5780         | .5417         | .2730         | .6891         | 1.275         | .8245         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 2468. | 2536. | 2587. | 2611. | 962.3 | 2587. |
| #2 | 2497. | 2547. | 2591. | 2636. | 985.2 | 2623. |
| #3 | 2479. | 2563. | 2601. | 2601. | 982.3 | 2625. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>1063.</b>  | <b>5410.</b>  | <b>10130.</b> | <b>10140.</b> |
| Stddev | 5.            | 119.          | 52.           | 180.          |
| %RSD   | .5015         | 2.203         | .5169         | 1.777         |

|    |       |       |        |        |
|----|-------|-------|--------|--------|
| #1 | 1057. | 5275. | 10090. | 10050. |
| #2 | 1067. | 5453. | 10110. | 10020. |
| #3 | 1064. | 5502. | 10190. | 10350. |

|         |          |          |          |      |
|---------|----------|----------|----------|------|
| 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       | <b>2283.5</b> | <b>26466.</b> | <b>3594.2</b> |
| Stddev    | 20.9          | 261.          | 76.3          |
| %RSD      | .91399        | .98690        | 2.1220        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2281.1 | 26177. | 3646.7 |
| #2 | 2263.9 | 26536. | 3506.7 |
| #3 | 2305.4 | 26685. | 3629.2 |



Sample Name: CCB      Acquired: 3/4/2016 16:05:33      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-15.60</b> | <b>1.591</b>  | <b>-.2506</b> | <b>.2692</b>  | <b>.0379</b>  | <b>-77.19</b> |
| Stddev | 20.38         | .639          | .0516         | .3891         | .0741         | 11.83         |
| %RSD   | 130.6         | 40.13         | 20.57         | 144.6         | 195.7         | 15.32         |

|    |        |       |        |        |        |        |
|----|--------|-------|--------|--------|--------|--------|
| #1 | 4.685  | 1.235 | -.3098 | .6923  | -.0397 | -73.86 |
| #2 | -36.06 | 1.210 | -.2268 | -.0733 | .1080  | -90.32 |
| #3 | -15.43 | 2.328 | -.2153 | .1885  | .0453  | -67.39 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.0666</b>  | <b>.2606</b>  | <b>.2669</b>  | <b>-2.258</b> | <b>12.33</b>  | <b>-31.79</b> |
| Stddev | .1316         | .1841         | .9272         | .245          | 9.37          | 58.09         |
| %RSD   | 197.5         | 70.65         | 347.3         | 10.86         | 75.94         | 182.7         |

|    |        |       |        |        |       |        |
|----|--------|-------|--------|--------|-------|--------|
| #1 | .1661  | .4620 | .9699  | -2.185 | 12.71 | 33.42  |
| #2 | -.0826 | .2187 | -.7839 | -2.058 | 21.50 | -77.98 |
| #3 | .1163  | .1010 | .6148  | -2.532 | 2.785 | -50.83 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>-2.664</b> | <b>.2573</b>  | <b>-2.426</b> | <b>-1.016</b> | <b>1.572</b>  | <b>.7789</b>  |
| Stddev | 1.036         | .1432         | 14.40         | .830          | 1.846         | .6352         |
| %RSD   | 38.89         | 55.65         | 593.5         | 81.72         | 117.4         | 81.56         |

|    |        |       |        |        |       |       |
|----|--------|-------|--------|--------|-------|-------|
| #1 | -3.657 | .3133 | 9.677  | -1.706 | 1.088 | 1.193 |
| #2 | -2.745 | .3639 | 1.397  | -.0947 | .0174 | 1.096 |
| #3 | -1.589 | .0945 | -18.35 | -1.247 | 3.612 | .0475 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: CCB      Acquired: 3/4/2016 16:05:33      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-3.884</b> | <b>-1.883</b> | <b>-.0448</b> | <b>.3338</b>  | <b>.6018</b>  | <b>.9074</b>  |
| Stddev | 1.785         | 1.116         | .4208         | .2657         | .4540         | .5481         |
| %RSD   | 45.94         | 59.28         | 940.0         | 79.60         | 75.45         | 60.40         |
| #1     | -4.385        | -3.124        | .2818         | .1960         | 1.077         | 1.519         |
| #2     | -1.903        | -.9628        | .1035         | .6402         | .1727         | .4609         |
| #3     | -5.365        | -1.561        | -.5196        | .1654         | .5555         | .7422         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.9414</b>  | <b>.2462</b>  | <b>.5202</b>  | <b>9.044</b>  |
| Stddev | .5564         | .1545         | .1014         | 25.25         |
| %RSD   | 59.10         | 62.74         | 19.49         | 279.1         |
| #1     | .7948         | .2925         | .4033         | 37.92         |
| #2     | .4730         | .0739         | .5840         | -8.864        |
| #3     | 1.556         | .3722         | .5733         | -1.923        |

|            |          |          |          |      |
|------------|----------|----------|----------|------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | None |
| High Limit |          |          |          |      |
| Low Limit  |          |          |          |      |

| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
|-----------|---------------|---------------|---------------|
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2349.3</b> | <b>26560.</b> | <b>3462.8</b> |
| Stddev    | 37.8          | 181.          | 64.9          |
| %RSD      | 1.6090        | .68279        | 1.8740        |
| #1        | 2361.4        | 26687.        | 3537.5        |
| #2        | 2307.0        | 26352.        | 3431.2        |
| #3        | 2379.7        | 26640.        | 3419.8        |

Sample Name: 460-109676-B-2-A@4      Acquired: 3/4/2016 16:33:30      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>26630.</b> | <b>7.076</b>  | <b>.4895</b>  | <b>542.1</b>  | <b>.7242</b>  | <b>87620.</b> |
| Stddev | 91.           | 2.370         | .7402         | 1.6           | .0376         | 367.          |
| %RSD   | .3428         | 33.50         | 151.2         | .3005         | 5.189         | .4185         |
| #1     | 26730.        | 5.574         | -.1636        | 542.5         | .7483         | 87200.        |
| #2     | 26570.        | 5.845         | .3386         | 540.3         | .7434         | 87890.        |
| #3     | 26580.        | 9.808         | 1.294         | 543.5         | .6809         | 87770.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.456</b>  | <b>26.14</b>  | <b>59.65</b>  | <b>335.0</b>  | <b>65410.</b> | <b>12130.</b> |
| Stddev | .232          | .37           | .91           | 1.9           | 177.          | 36.           |
| %RSD   | 15.96         | 1.428         | 1.522         | .5605         | .2701         | .2964         |
| #1     | 1.713         | 26.56         | 58.71         | 337.1         | 65220.        | 12170.        |
| #2     | 1.394         | 25.85         | 59.70         | 334.5         | 65570.        | 12130.        |
| #3     | 1.261         | 25.99         | 60.52         | 333.4         | 65450.        | 12100.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>31610.</b> | <b>780.5</b>  | <b>1434.</b>  | <b>99.97</b>  | <b>541.0</b>  | <b>2.411</b>  |
| Stddev | 115.          | 1.0           | 14.           | .86           | 1.1           | .890          |
| %RSD   | .3638         | .1293         | .9678         | .8624         | .1942         | 36.92         |
| #1     | 31480.        | 780.5         | 1445.         | 100.9         | 540.2         | 1.400         |
| #2     | 31650.        | 781.5         | 1439.         | 99.33         | 540.6         | 3.076         |
| #3     | 31700.        | 779.5         | 1418.         | 99.62         | 542.2         | 2.757         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109676-B-2-A@4      Acquired: 3/4/2016 16:33:30      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | -1.333        | -4.907        | 117.6         | 963.8         | 12.78         | 2.405         |
| Stddev | 1.984         | 1.064         | .8            | 5.3           | .27           | .423          |
| %RSD   | 148.8         | 21.67         | .6819         | .5497         | 2.117         | 17.60         |
| #1     | -1.137        | -5.927        | 117.7         | 957.8         | 13.09         | 2.393         |
| #2     | -3.408        | -4.989        | 118.3         | 967.6         | 12.63         | 1.988         |
| #3     | .5453         | -3.805        | 116.7         | 966.1         | 12.62         | 2.835         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | 68.62         | 179.7         | 2939.         | 3227.         |
| Stddev | 1.95          | 1.1           | 2.            | 135.          |
| %RSD   | 2.837         | .5984         | .0622         | 4.180         |
| #1     | 69.20         | 180.8         | 2940.         | 3347.         |
| #2     | 70.21         | 179.6         | 2937.         | 3252.         |
| #3     | 66.45         | 178.7         | 2939.         | 3081.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | 2401.7        | 27925.        | 3655.6        |
| Stddev    | 24.9          | 201.          | 15.2          |
| %RSD      | 1.0355        | .72096        | .41681        |
| #1        | 2385.5        | 27791.        | 3655.5        |
| #2        | 2389.3        | 27828.        | 3640.4        |
| #3        | 2430.4        | 28157.        | 3670.9        |

Sample Name: 460-109716-A-1-A@4      Acquired: 3/4/2016 16:37:20      Type: Unk

Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000

User: admin      Custom ID1:      Custom ID2:      Custom ID3:

Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>18690.</b> | <b>13.37</b>  | <b>-5767</b>  | <b>423.5</b>  | <b>.7552</b>  | <b>80220.</b> |
| Stddev | 67.           | 1.75          | .6195         | .5            | .1553         | 284.          |
| %RSD   | .3593         | 13.13         | 107.4         | .1246         | 20.57         | .3536         |

|    |        |       |        |       |       |        |
|----|--------|-------|--------|-------|-------|--------|
| #1 | 18750. | 14.16 | -.3258 | 423.2 | .5902 | 80450. |
| #2 | 18700. | 14.58 | -.1220 | 424.1 | .7768 | 79900. |
| #3 | 18620. | 11.36 | -1.282 | 423.2 | .8986 | 80290. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.018</b>  | <b>12.46</b>  | <b>43.21</b>  | <b>77.85</b>  | <b>38230.</b> | <b>1419.</b>  |
| Stddev | .086          | .19           | .17           | .13           | 145.          | 10.           |
| %RSD   | 8.424         | 1.491         | .3942         | .1704         | .3783         | .6739         |

|    |       |       |       |       |        |       |
|----|-------|-------|-------|-------|--------|-------|
| #1 | .9580 | 12.44 | 43.02 | 77.70 | 38340. | 1428. |
| #2 | 1.117 | 12.65 | 43.29 | 77.89 | 38070. | 1409. |
| #3 | .9805 | 12.28 | 43.33 | 77.96 | 38290. | 1419. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>29460.</b> | <b>709.9</b>  | <b>285.9</b>  | <b>32.59</b>  | <b>1555.</b>  | <b>2.180</b>  |
| Stddev | 72.           | 3.0           | 5.2           | .61           | 5.            | .880          |
| %RSD   | .2436         | .4203         | 1.833         | 1.857         | .3166         | 40.36         |

|    |        |       |       |       |       |       |
|----|--------|-------|-------|-------|-------|-------|
| #1 | 29550. | 713.3 | 281.4 | 32.02 | 1557. | 2.260 |
| #2 | 29410. | 707.8 | 291.6 | 32.53 | 1559. | 1.262 |
| #3 | 29430. | 708.6 | 284.5 | 33.23 | 1550. | 3.016 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109716-A-1-A@4      Acquired: 3/4/2016 16:37:20      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-3.531</b> | <b>-5.533</b> | <b>60.38</b>  | <b>415.9</b>  | <b>6.129</b>  | <b>1.616</b>  |
| Stddev | 2.183         | 2.979         | .32           | 1.3           | .373          | .482          |
| %RSD   | 61.81         | 53.85         | .5349         | .3064         | 6.081         | 29.83         |
| #1     | -3.536        | -8.899        | 60.74         | 416.6         | 5.703         | 2.049         |
| #2     | -5.711        | -4.466        | 60.12         | 416.7         | 6.290         | 1.097         |
| #3     | -1.346        | -3.234        | 60.29         | 414.5         | 6.394         | 1.703         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>10.21</b>  | <b>142.3</b>  | <b>697.6</b>  | <b>1802.</b>  |
| Stddev | 1.12          | .5            | 2.2           | 44.           |
| %RSD   | 10.95         | .3497         | .3190         | 2.439         |
| #1     | 11.48         | 142.4         | 700.2         | 1829.         |
| #2     | 9.350         | 141.8         | 696.8         | 1751.         |
| #3     | 9.811         | 142.8         | 696.0         | 1826.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2355.6</b> | <b>26930.</b> | <b>3574.8</b> |
| Stddev    | 17.3          | 380.          | 19.9          |
| %RSD      | .73290        | 1.4116        | .55799        |
| #1        | 2335.7        | 26582.        | 3551.8        |
| #2        | 2367.2        | 27336.        | 3588.1        |
| #3        | 2363.8        | 26871.        | 3584.4        |

Sample Name: MB 460-353915/1-A@ Acquired: 3/4/2016 16:41:15 Type: Unk

Method: sw02152016(v11) Mode: CONC Corr. Factor: 1.000000

User: admin Custom ID1: Custom ID2: Custom ID3:

Comment:

| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-5.384</b> | <b>3.122</b>  | <b>-.3757</b> | <b>.1561</b>  | <b>.0022</b>  | <b>-33.82</b> |
| Stddev | 7.863         | .821          | .4292         | .0488         | .0909         | 28.53         |
| %RSD   | 146.0         | 26.30         | 114.2         | 31.24         | 4176.         | 84.36         |

|    |        |       |        |       |        |        |
|----|--------|-------|--------|-------|--------|--------|
| #1 | 3.489  | 2.896 | .0359  | .1480 | -.0877 | -26.95 |
| #2 | -8.154 | 4.032 | -.3425 | .1120 | .0941  | -9.348 |
| #3 | -11.49 | 2.437 | -.8205 | .2085 | .0001  | -65.15 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.0947</b>  | <b>.4889</b>  | <b>.2068</b>  | <b>-2.715</b> | <b>20.90</b>  | <b>-3.818</b> |
| Stddev | .1615         | .0753         | .0910         | .428          | 11.18         | 60.33         |
| %RSD   | 170.5         | 15.39         | 43.99         | 15.75         | 53.48         | 1580.         |

|    |        |       |       |        |       |        |
|----|--------|-------|-------|--------|-------|--------|
| #1 | -.0915 | .5702 | .3068 | -2.782 | 17.02 | -70.75 |
| #2 | .1959  | .4218 | .1288 | -2.258 | 33.50 | 46.38  |
| #3 | .1798  | .4745 | .1850 | -3.106 | 12.18 | 12.91  |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>10.30</b>  | <b>.3556</b>  | <b>-2.497</b> | <b>-.6063</b> | <b>1.320</b>  | <b>.0537</b>  |
| Stddev | 10.97         | .2374         | 7.770         | .3900         | 1.195         | .5837         |
| %RSD   | 106.5         | 66.74         | 311.2         | 64.33         | 90.48         | 1087.         |

|    |        |       |        |        |       |        |
|----|--------|-------|--------|--------|-------|--------|
| #1 | 11.91  | .4505 | -9.288 | -.8452 | 2.537 | -.4308 |
| #2 | 20.38  | .5309 | -4.179 | -.1562 | .1496 | .7018  |
| #3 | -1.382 | .0855 | 5.976  | -.8174 | 1.274 | -.1099 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: MB 460-353915/1-A@      Acquired: 3/4/2016 16:41:15      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-4.096</b> | <b>.4381</b>  | <b>.3111</b>  | <b>1.087</b>  | <b>-.9299</b> | <b>-.2142</b> |
| Stddev | 1.589         | .6561         | .7340         | .276          | .2612         | .2167         |
| %RSD   | 38.78         | 149.7         | 235.9         | 25.34         | 28.09         | 101.2         |
| #1     | -5.894        | -.3180        | .2576         | .9333         | -.9885        | -.3787        |
| #2     | -2.881        | .7758         | -.3947        | 1.405         | -.6444        | -.2952        |
| #3     | -3.514        | .8565         | 1.070         | .9226         | -1.157        | .0313         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.8668</b>  | <b>.0765</b>  | <b>.5511</b>  | <b>16.19</b>  |
| Stddev | 1.847         | .0660         | .2585         | 10.51         |
| %RSD   | 213.1         | 86.16         | 46.90         | 64.90         |
| #1     | -.4590        | .0004         | .4187         | 4.917         |
| #2     | 2.977         | .1156         | .8490         | 25.71         |
| #3     | .0827         | .1136         | .3857         | 17.95         |

|            |          |          |          |      |
|------------|----------|----------|----------|------|
| 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       | <b>2449.2</b> | <b>28030.</b> | <b>3668.3</b> |
| Stddev    | 33.0          | 177.          | 130.5         |
| %RSD      | 1.3459        | .63210        | 3.5565        |
| #1        | 2484.9        | 28172.        | 3517.8        |
| #2        | 2442.7        | 28088.        | 3750.5        |
| #3        | 2420.0        | 27832.        | 3736.5        |



Sample Name: 460-109572-E-7-C DU      Acquired: 3/4/2016 16:48:51      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>3274.</b>  | <b>-.8361</b> | <b>-.5972</b> | <b>10.52</b>  | <b>.1414</b>  | <b>55.95</b>  |
| Stddev | 17.           | 2.278         | .1855         | .18           | .2698         | 7.66          |
| %RSD   | .5099         | 272.4         | 31.06         | 1.706         | 190.7         | 13.68         |

|    |       |        |        |       |        |       |
|----|-------|--------|--------|-------|--------|-------|
| #1 | 3271. | -1.650 | -.3904 | 10.72 | .4190  | 58.58 |
| #2 | 3258. | 1.737  | -.6527 | 10.49 | -.1197 | 47.32 |
| #3 | 3292. | -2.595 | -.7487 | 10.37 | .1250  | 61.94 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.0001</b> | <b>.6578</b>  | <b>6.254</b>  | <b>.0592</b>  | <b>1628.</b>  | <b>75.68</b>  |
| Stddev | .1152         | .1995         | .358          | .3681         | 8.            | 14.76         |
| %RSD   | 126000.       | 30.33         | 5.731         | 621.9         | .5221         | 19.51         |

|    |        |       |       |        |       |       |
|----|--------|-------|-------|--------|-------|-------|
| #1 | -.0733 | .8513 | 6.560 | .0687  | 1637. | 63.79 |
| #2 | .1327  | .6693 | 6.343 | -.3135 | 1621. | 71.04 |
| #3 | -.0596 | .4528 | 5.860 | .4224  | 1624. | 92.20 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>98.26</b>  | <b>6.000</b>  | <b>70.17</b>  | <b>1.864</b>  | <b>17.02</b>  | <b>.1560</b>  |
| Stddev | 1.74          | .321          | 11.45         | .979          | 1.14          | 1.105         |
| %RSD   | 1.776         | 5.347         | 16.31         | 52.52         | 6.696         | 707.9         |

|    |       |       |       |       |       |        |
|----|-------|-------|-------|-------|-------|--------|
| #1 | 96.33 | 6.277 | 58.74 | .7430 | 16.47 | 1.287  |
| #2 | 99.73 | 6.076 | 81.64 | 2.551 | 18.33 | -.9202 |
| #3 | 98.70 | 5.649 | 70.12 | 2.299 | 16.25 | .1013  |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109572-E-7-C DU      Acquired: 3/4/2016 16:48:51      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.7283</b>  | <b>-4.069</b> | <b>3.886</b>  | <b>8.470</b>  | <b>2.150</b>  | <b>1.037</b>  |
| Stddev | 2.484         | 3.367         | .325          | .218          | .546          | .109          |
| %RSD   | 341.1         | 82.74         | 8.353         | 2.578         | 25.42         | 10.50         |
| #1     | 3.330         | -1.077        | 4.220         | 8.716         | 2.770         | 1.162         |
| #2     | .4728         | -7.715        | 3.572         | 8.299         | 1.940         | .9622         |
| #3     | -1.618        | -3.415        | 3.864         | 8.396         | 1.739         | .9877         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.854</b>  | <b>2.512</b>  | <b>114.4</b>  | <b>608.6</b>  |
| Stddev | .260          | .064          | .1            | 22.4          |
| %RSD   | 5.363         | 2.563         | .0521         | 3.688         |
| #1     | 4.665         | 2.584         | 114.4         | 584.1         |
| #2     | 5.151         | 2.492         | 114.5         | 628.2         |
| #3     | 4.745         | 2.460         | 114.5         | 613.4         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2346.3</b> | <b>26403.</b> | <b>3520.1</b> |
| Stddev    | 13.2          | 292.          | 46.9          |
| %RSD      | .56414        | 1.1056        | 1.3331        |
| #1        | 2352.5        | 26145.        | 3466.1        |
| #2        | 2355.3        | 26720.        | 3550.9        |
| #3        | 2331.1        | 26344.        | 3543.3        |

Sample Name: 460-109572-E-7-B@4      Acquired: 3/4/2016 16:52:47      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>3297.</b>  | <b>.2881</b>  | <b>.0147</b>  | <b>10.50</b>  | <b>.0796</b>  | <b>46.18</b>  |
| Stddev | 38.           | 1.362         | .4303         | .06           | .0604         | 11.13         |
| %RSD   | 1.144         | 472.9         | 2935.         | .5809         | 75.90         | 24.10         |
| #1     | 3270.         | -1.285        | .3613         | 10.56         | .1211         | 58.87         |
| #2     | 3282.         | 1.086         | -.4669        | 10.51         | .1074         | 38.08         |
| #3     | 3340.         | 1.063         | .1495         | 10.44         | .0103         | 41.58         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.1034</b> | <b>.7416</b>  | <b>5.193</b>  | <b>.0711</b>  | <b>1580.</b>  | <b>85.25</b>  |
| Stddev | .0756         | .1906         | .271          | .4500         | 17.           | 92.46         |
| %RSD   | 73.12         | 25.70         | 5.221         | 632.7         | 1.087         | 108.5         |
| #1     | -.0161        | .6878         | 5.317         | .5237         | 1594.         | -8.269        |
| #2     | -.1453        | .5837         | 5.379         | .0661         | 1585.         | 87.41         |
| #3     | -.1488        | .9532         | 4.882         | -.3764        | 1561.         | 176.6         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>94.39</b>  | <b>5.521</b>  | <b>53.49</b>  | <b>2.535</b>  | <b>15.77</b>  | <b>.2030</b>  |
| Stddev | 2.86          | .112          | 7.00          | .337          | .97           | 1.697         |
| %RSD   | 3.031         | 2.021         | 13.09         | 13.29         | 6.129         | 835.9         |
| #1     | 96.95         | 5.586         | 58.84         | 2.150         | 16.74         | 2.162         |
| #2     | 94.92         | 5.586         | 45.57         | 2.776         | 15.76         | -.7931        |
| #3     | 91.30         | 5.392         | 56.06         | 2.680         | 14.81         | -.7600        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109572-E-7-B@4      Acquired: 3/4/2016 16:52:47      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-3.178</b> | <b>-4.805</b> | <b>3.951</b>  | <b>7.942</b>  | <b>1.628</b>  | <b>.6320</b>  |
| Stddev | .353          | .222          | .417          | .205          | .251          | .3834         |
| %RSD   | 11.10         | 4.613         | 10.56         | 2.579         | 15.44         | 60.67         |
| #1     | -3.512        | -4.736        | 3.777         | 7.711         | 1.912         | .9848         |
| #2     | -2.809        | -4.625        | 4.427         | 8.016         | 1.535         | .2240         |
| #3     | -3.214        | -5.052        | 3.649         | 8.100         | 1.436         | .6871         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.815</b>  | <b>2.333</b>  | <b>113.9</b>  | <b>594.6</b>  |
| Stddev | 1.163         | .149          | .2            | 30.6          |
| %RSD   | 24.16         | 6.377         | .2072         | 5.140         |
| #1     | 4.823         | 2.206         | 114.1         | 569.0         |
| #2     | 5.975         | 2.296         | 114.0         | 628.4         |
| #3     | 3.648         | 2.497         | 113.6         | 586.3         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2392.1</b> | <b>26959.</b> | <b>3520.5</b> |
| Stddev    | 7.0           | 337.          | 129.6         |
| %RSD      | .29266        | 1.2518        | 3.6801        |
| #1        | 2392.5        | 27106.        | 3378.5        |
| #2        | 2384.9        | 26573.        | 3632.3        |
| #3        | 2398.9        | 27198.        | 3550.7        |

Sample Name: 460-109572-E-7-D MS      Acquired: 3/4/2016 17:00:40      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>7032.</b>  | <b>942.5</b>  | <b>24.01</b>  | <b>1040.</b>  | <b>27.38</b>  | <b>10510.</b> |
| Stddev | 25.           | 5.8           | .59           | 1.            | .15           | 117.          |
| %RSD   | .3521         | .6169         | 2.469         | .0823         | .5506         | 1.109         |
| #1     | 7005.         | 936.4         | 23.53         | 1040.         | 27.55         | 10550.        |
| #2     | 7053.         | 948.0         | 24.67         | 1039.         | 27.33         | 10610.        |
| #3     | 7038.         | 943.0         | 23.83         | 1041.         | 27.27         | 10390.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>26.17</b>  | <b>260.2</b>  | <b>114.5</b>  | <b>122.5</b>  | <b>2105.</b>  | <b>9940.</b>  |
| Stddev | .10           | .6            | 1.2           | 1.3           | 11.           | 67.           |
| %RSD   | .3868         | .2178         | 1.081         | 1.090         | .5210         | .6707         |
| #1     | 26.16         | 260.5         | 114.0         | 121.1         | 2094.         | 9889.         |
| #2     | 26.28         | 260.5         | 115.9         | 122.6         | 2116.         | 10020.        |
| #3     | 26.08         | 259.5         | 113.5         | 123.8         | 2105.         | 9917.         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>9854.</b>  | <b>275.4</b>  | <b>10220.</b> | <b>272.9</b>  | <b>257.7</b>  | <b>234.1</b>  |
| Stddev | 70.           | 1.5           | 66.           | .7            | 1.1           | .6            |
| %RSD   | .7124         | .5555         | .6477         | .2616         | .4275         | .2759         |
| #1     | 9849.         | 275.0         | 10160.        | 273.2         | 256.5         | 233.6         |
| #2     | 9927.         | 277.1         | 10290.        | 273.4         | 258.7         | 234.9         |
| #3     | 9787.         | 274.1         | 10220.        | 272.0         | 257.7         | 234.0         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109572-E-7-D MS      Acquired: 3/4/2016 17:00:40      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>930.8</b>  | <b>990.0</b>  | <b>267.9</b>  | <b>276.8</b>  | <b>233.1</b>  | <b>251.7</b>  |
| Stddev | 8.1           | 2.6           | 1.9           | 3.2           | 2.0           | .3            |
| %RSD   | .8697         | .2593         | .7274         | 1.154         | .8392         | .1068         |
| #1     | 926.0         | 987.5         | 265.7         | 277.5         | 231.7         | 251.4         |
| #2     | 940.2         | 992.6         | 268.9         | 279.6         | 232.3         | 251.6         |
| #3     | 926.3         | 989.8         | 269.2         | 273.3         | 235.3         | 252.0         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>264.7</b>  | <b>269.9</b>  | <b>337.4</b>  | <b>1565.</b>  |
| Stddev | .8            | 1.0           | 1.2           | 35.           |
| %RSD   | .2861         | .3552         | .3521         | 2.240         |
| #1     | 263.8         | 269.1         | 336.2         | 1556.         |
| #2     | 265.2         | 270.9         | 338.5         | 1536.         |
| #3     | 265.1         | 269.5         | 337.5         | 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       | <b>2299.8</b> | <b>25888.</b> | <b>3457.2</b> |
| Stddev    | 61.6          | 903.          | 158.2         |
| %RSD      | 2.6799        | 3.4891        | 4.5749        |
| #1        | 2268.0        | 25533.        | 3397.9        |
| #2        | 2260.6        | 25216.        | 3337.2        |
| #3        | 2370.9        | 26914.        | 3636.4        |

Sample Name: pds 460-109572-E-7-B      Acquired: 3/4/2016 17:04:26      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>5404.</b>  | <b>1746.</b>  | <b>44.66</b>  | <b>1930.</b>  | <b>51.57</b>  | <b>19010.</b> |
| Stddev | 24.           | 5.            | .41           | 4.            | .36           | 56.           |
| %RSD   | .4527         | .3056         | .9228         | .1871         | .6930         | .2962         |
| #1     | 5381.         | 1748.         | 44.41         | 1928.         | 51.28         | 19050.        |
| #2     | 5400.         | 1751.         | 45.13         | 1934.         | 51.45         | 19040.        |
| #3     | 5430.         | 1740.         | 44.43         | 1929.         | 51.97         | 18950.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>48.32</b>  | <b>484.9</b>  | <b>198.8</b>  | <b>229.3</b>  | <b>2580.</b>  | <b>18250.</b> |
| Stddev | .17           | .2            | .9            | 1.3           | 23.           | 29.           |
| %RSD   | .3480         | .0474         | .4738         | .5472         | .8755         | .1568         |
| #1     | 48.14         | 484.8         | 199.0         | 227.8         | 2577.         | 18220.        |
| #2     | 48.48         | 485.2         | 199.7         | 230.0         | 2605.         | 18280.        |
| #3     | 48.35         | 484.7         | 197.8         | 229.9         | 2560.         | 18250.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>17620.</b> | <b>501.6</b>  | <b>19060.</b> | <b>504.1</b>  | <b>463.4</b>  | <b>450.3</b>  |
| Stddev | 22.           | .9            | 68.           | 1.5           | .7            | 1.4           |
| %RSD   | .1270         | .1784         | .3577         | .3011         | .1422         | .3122         |
| #1     | 17630.        | 500.5         | 19040.        | 503.6         | 462.9         | 449.1         |
| #2     | 17600.        | 502.0         | 19010.        | 505.8         | 463.1         | 451.8         |
| #3     | 17640.        | 502.1         | 19140.        | 502.9         | 464.1         | 450.0         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: pds 460-109572-E-7-B      Acquired: 3/4/2016 17:04:26      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 1744.         | 1867.         | 491.7         | 499.5         | 439.3         | 478.9         |
| Stddev | 1.            | 5.            | 1.0           | 1.5           | 2.1           | .8            |
| %RSD   | .0488         | .2730         | .2126         | .3096         | .4749         | .1709         |
| #1     | 1743.         | 1863.         | 492.1         | 499.6         | 437.1         | 478.1         |
| #2     | 1745.         | 1865.         | 492.4         | 500.9         | 439.8         | 478.9         |
| #3     | 1744.         | 1872.         | 490.5         | 497.8         | 441.2         | 479.8         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | 494.9         | 497.5         | 592.8         | 666.9         |
| Stddev | 1.2           | 2.2           | 2.3           | 33.1          |
| %RSD   | .2380         | .4357         | .3818         | 4.966         |
| #1     | 495.8         | 498.7         | 591.4         | 658.6         |
| #2     | 495.3         | 495.0         | 591.5         | 703.3         |
| #3     | 493.5         | 498.9         | 595.4         | 638.7         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |
| Low Limit  |          |          |          |          |

| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
|-----------|---------------|---------------|---------------|
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | 2315.2        | 26774.        | 3532.2        |
| Stddev    | 17.4          | 284.          | 3.9           |
| %RSD      | .75239        | 1.0603        | .11157        |
| #1        | 2315.9        | 26650.        | 3536.7        |
| #2        | 2297.5        | 26573.        | 3530.2        |
| #3        | 2332.3        | 27098.        | 3529.7        |



Sample Name: 460-109572-E-4-B@4      Acquired: 3/4/2016 17:08:04      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2077.</b>  | <b>12.59</b>  | <b>-2229</b>  | <b>6.345</b>  | <b>.3313</b>  | <b>-2.814</b> |
| Stddev | 5.            | .74           | .7465         | .102          | .0504         | 2.233         |
| %RSD   | .2643         | 5.853         | 334.9         | 1.615         | 15.22         | 79.35         |
| #1     | 2081.         | 13.32         | .5028         | 6.454         | .2757         | -5.107        |
| #2     | 2071.         | 12.60         | -.9887        | 6.251         | .3740         | -2.690        |
| #3     | 2078.         | 11.84         | -.1828        | 6.329         | .3443         | -.6459        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.7635</b> | <b>.2684</b>  | <b>38.32</b>  | <b>3.677</b>  | <b>20530.</b> | <b>-27.67</b> |
| Stddev | .1469         | .4467         | .93           | .089          | 104.          | 57.67         |
| %RSD   | 19.25         | 166.4         | 2.420         | 2.417         | .5068         | 208.4         |
| #1     | -.9072        | .6882         | 37.53         | 3.778         | 20510.        | -23.60        |
| #2     | -.6135        | -.2011        | 38.08         | 3.613         | 20450.        | -87.27        |
| #3     | -.7699        | .3182         | 39.34         | 3.639         | 20650.        | 27.86         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>48.07</b>  | <b>15.10</b>  | <b>16.78</b>  | <b>-.0083</b> | <b>3.263</b>  | <b>2.693</b>  |
| Stddev | 2.76          | .26           | 13.50         | .1758         | .900          | 1.763         |
| %RSD   | 5.746         | 1.728         | 80.45         | 2116.         | 27.58         | 65.49         |
| #1     | 46.49         | 14.80         | 1.363         | .0042         | 2.526         | 3.023         |
| #2     | 51.26         | 15.25         | 26.48         | .1609         | 4.266         | 4.268         |
| #3     | 46.46         | 15.24         | 22.50         | -.1900        | 2.997         | .7875         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109572-E-4-B@4      Acquired: 3/4/2016 17:08:04      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | -1.492        | -7.404        | 43.62         | 5.688         | 1.775         | 17.93         |
| Stddev | 2.556         | 2.530         | .34           | .147          | .458          | .36           |
| %RSD   | 171.3         | 34.16         | .7771         | 2.590         | 25.79         | 2.003         |
| #1     | -1.373        | -6.015        | 43.28         | 5.842         | 1.693         | 18.26         |
| #2     | 1.002         | -5.874        | 43.95         | 5.673         | 2.268         | 17.98         |
| #3     | -4.105        | -10.32        | 43.64         | 5.549         | 1.364         | 17.55         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | 5.083         | 1.633         | 86.49         | 429.8         |
| Stddev | .697          | .169          | .15           | 16.9          |
| %RSD   | 13.71         | 10.37         | .1771         | 3.932         |
| #1     | 4.494         | 1.456         | 86.31         | 441.6         |
| #2     | 5.852         | 1.649         | 86.57         | 410.4         |
| #3     | 4.903         | 1.793         | 86.59         | 437.4         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | 2265.4        | 25872.        | 3370.5        |
| Stddev    | 6.7           | 315.          | 55.1          |
| %RSD      | .29541        | 1.2189        | 1.6356        |
| #1        | 2257.8        | 25958.        | 3431.7        |
| #2        | 2270.4        | 26135.        | 3355.0        |
| #3        | 2268.0        | 25523.        | 3324.8        |

Sample Name: CCV      Acquired: 3/4/2016 17:12:01      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |                |               |               |               |               |                |
|--------|----------------|---------------|---------------|---------------|---------------|----------------|
| Elem   | Al3961         | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181         |
| Line   | 396.152 { 85}  | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106}  |
| IS Ref | (Y_3710)       | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)       |
| Units  | ppb            | ppb           | ppb           | ppb           | ppb           | ppb            |
| Avg    | <b>129800.</b> | <b>2413.</b>  | <b>1207.</b>  | <b>10230.</b> | <b>1071.</b>  | <b>125100.</b> |
| Stddev | 187.           | 11.           | 9.            | 19.           | 1.            | 1796.          |
| %RSD   | .1440          | .4572         | .7777         | .1862         | .0810         | 1.436          |

|    |         |       |       |        |       |         |
|----|---------|-------|-------|--------|-------|---------|
| #1 | 129600. | 2401. | 1205. | 10240. | 1072. | 124200. |
| #2 | 129900. | 2421. | 1198. | 10210. | 1070. | 124000. |
| #3 | 129900. | 2418. | 1217. | 10240. | 1072. | 127200. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>1278.</b>  | <b>2544.</b>  | <b>4870.</b>  | <b>12660.</b> | <b>98460.</b> | <b>52330.</b> |
| Stddev | 4.            | 4.            | 62.           | 35.           | 1075.         | 92.           |
| %RSD   | .3282         | .1455         | 1.280         | .2746         | 1.092         | .1767         |

|    |       |       |       |        |        |        |
|----|-------|-------|-------|--------|--------|--------|
| #1 | 1273. | 2540. | 4843. | 12690. | 97930. | 52270. |
| #2 | 1280. | 2547. | 4826. | 12660. | 97760. | 52280. |
| #3 | 1281. | 2544. | 4942. | 12620. | 99700. | 52440. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>118600.</b> | <b>5179.</b>  | <b>128000.</b> | <b>2598.</b>  | <b>7366.</b>  | <b>1012.</b>  |
| Stddev | 1636.          | 46.           | 179.           | 3.            | 25.           | 6.            |
| %RSD   | 1.379          | .8904         | .1395          | .0998         | .3394         | .5782         |

|    |         |       |         |       |       |       |
|----|---------|-------|---------|-------|-------|-------|
| #1 | 117800. | 5162. | 128000. | 2596. | 7337. | 1011. |
| #2 | 117600. | 5143. | 128100. | 2597. | 7376. | 1017. |
| #3 | 120500. | 5231. | 127800. | 2601. | 7384. | 1006. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCV      Acquired: 3/4/2016 17:12:01      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 2467.         | 2506.         | 2543.         | 2527.         | 979.4         | 2550.         |
| Stddev | 26.           | 2.            | 16.           | 25.           | 5.7           | 2.            |
| %RSD   | 1.034         | .0772         | .6121         | .9841         | .5779         | .0773         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 2445. | 2508. | 2538. | 2500. | 975.7 | 2552. |
| #2 | 2495. | 2504. | 2531. | 2534. | 985.9 | 2551. |
| #3 | 2461. | 2506. | 2560. | 2549. | 976.6 | 2548. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | 1028.         | 5265.         | 10000.        | 10230.        |
| Stddev | 4.            | 12.           | 55.           | 231.          |
| %RSD   | .4103         | .2307         | .5476         | 2.256         |

|    |       |       |        |        |
|----|-------|-------|--------|--------|
| #1 | 1023. | 5278. | 9979.  | 10280. |
| #2 | 1032. | 5264. | 9961.  | 10430. |
| #3 | 1028. | 5254. | 10060. | 9975.  |

|         |          |          |          |      |
|---------|----------|----------|----------|------|
| 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       | 2335.5        | 27574.        | 3695.0        |
| Stddev    | 37.7          | 841.          | 127.8         |
| %RSD      | 1.6155        | 3.0499        | 3.4602        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2376.2 | 27937. | 3781.9 |
| #2 | 2328.4 | 28173. | 3755.0 |
| #3 | 2301.7 | 26613. | 3548.2 |

Sample Name: LCSSRM 460-353915/2-      Acquired: 3/4/2016 16:45:12      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>39650.</b> | <b>463.5</b>  | <b>188.9</b>  | <b>1607.</b>  | <b>348.3</b>  | <b>32970.</b> |
| Stddev | 92.           | 3.0           | .1            | 3.            | 1.0           | 300.          |
| %RSD   | .2316         | .6518         | .0728         | .1968         | .2861         | .9106         |
| #1     | 39600.        | 462.8         | 189.0         | 1609.         | 347.4         | 32680.        |
| #2     | 39590.        | 460.9         | 188.8         | 1610.         | 348.1         | 32950.        |
| #3     | 39760.        | 466.8         | 189.0         | 1604.         | 349.3         | 33280.        |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>726.9</b>  | <b>822.2</b>  | <b>901.3</b>  | <b>513.6</b>  | <b>71990.</b> | <b>13010.</b> |
| Stddev | 3.4           | .7            | 7.0           | 3.0           | 484.          | 33.           |
| %RSD   | .4714         | .0832         | .7805         | .5757         | .6725         | .2515         |
| #1     | 722.9         | 821.5         | 895.1         | 516.9         | 71560.        | 12970.        |
| #2     | 729.1         | 822.9         | 899.8         | 512.5         | 71890.        | 13010.        |
| #3     | 728.6         | 822.2         | 909.0         | 511.3         | 72520.        | 13030.        |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>12120.</b> | <b>2214.</b>  | <b>11820.</b> | <b>780.5</b>  | <b>614.2</b>  | <b>229.0</b>  |
| Stddev | 114.          | 10.           | 20.           | 1.9           | 3.6           | 1.9           |
| %RSD   | .9391         | .4615         | .1705         | .2472         | .5853         | .8495         |
| #1     | 12010.        | 2208.         | 11790.        | 778.5         | 610.1         | 226.9         |
| #2     | 12110.        | 2209.         | 11820.        | 782.4         | 615.5         | 230.7         |
| #3     | 12240.        | 2226.         | 11830.        | 780.6         | 616.9         | 229.4         |

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

Sample Name: LCSSRM 460-353915/2-      Acquired: 3/4/2016 16:45:12      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>703.1</b>  | <b>854.3</b>  | <b>482.9</b>  | <b>988.5</b>  | <b>622.6</b>  | <b>804.0</b>  |
| Stddev | 3.5           | 4.6           | 1.4           | 11.3          | .6            | 1.3           |
| %RSD   | .4909         | .5427         | .2894         | 1.147         | .1017         | .1668         |
| #1     | 699.1         | 851.3         | 482.0         | 976.0         | 622.5         | 804.7         |
| #2     | 705.1         | 851.9         | 482.2         | 991.6         | 622.0         | 804.8         |
| #3     | 705.2         | 859.6         | 484.5         | 998.0         | 623.2         | 802.4         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>512.9</b>  | <b>466.3</b>  | <b>1918.</b>  | <b>1133.</b>  |
| Stddev | 1.1           | .4            | 3.            | 15.           |
| %RSD   | .2229         | .0870         | .1479         | 1.335         |
| #1     | 512.1         | 466.7         | 1918.         | 1137.         |
| #2     | 514.2         | 466.3         | 1915.         | 1146.         |
| #3     | 512.3         | 465.9         | 1921.         | 1116.         |

|            |          |          |          |      |
|------------|----------|----------|----------|------|
| 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       | <b>2482.3</b> | <b>28617.</b> | <b>3835.5</b> |
| Stddev    | 33.6          | 386.          | 82.3          |
| %RSD      | 1.3538        | 1.3481        | 2.1463        |
| #1        | 2520.6        | 28850.        | 3878.5        |
| #2        | 2468.6        | 28830.        | 3887.4        |
| #3        | 2457.7        | 28172.        | 3740.6        |

Sample Name: CCVL      Acquired: 3/4/2016 17:19:35      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>224.4</b>  | <b>13.83</b>  | <b>9.629</b>  | <b>211.5</b>  | <b>2.232</b>  | <b>5111.</b>  |
| Stddev | 23.0          | .90           | .230          | .8            | .068          | 44.           |
| %RSD   | 10.23         | 6.509         | 2.392         | .3621         | 3.036         | .8610         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 239.7 | 13.38 | 9.697 | 212.2 | 2.210 | 5161. |
| #2 | 235.5 | 14.87 | 9.817 | 211.5 | 2.178 | 5076. |
| #3 | 198.0 | 13.25 | 9.372 | 210.7 | 2.308 | 5098. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.496</b>  | <b>53.46</b>  | <b>10.54</b>  | <b>22.07</b>  | <b>163.6</b>  | <b>5239.</b>  |
| Stddev | .109          | .60           | .37           | .50           | 9.7           | 25.           |
| %RSD   | 2.420         | 1.126         | 3.491         | 2.279         | 5.905         | .4742         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 4.550 | 54.14 | 10.71 | 22.30 | 166.3 | 5267. |
| #2 | 4.371 | 53.23 | 10.79 | 22.42 | 171.6 | 5221. |
| #3 | 4.567 | 53.00 | 10.12 | 21.50 | 152.8 | 5229. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4803.</b>  | <b>16.74</b>  | <b>5220.</b>  | <b>43.61</b>  | <b>9.952</b>  | <b>19.25</b>  |
| Stddev | 31.           | .23           | 26.           | .39           | 1.185         | .13           |
| %RSD   | .6424         | 1.385         | .4951         | .8999         | 11.91         | .6727         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 4838. | 16.83 | 5249. | 43.99 | 11.31 | 19.38 |
| #2 | 4789. | 16.90 | 5212. | 43.62 | 9.381 | 19.12 |
| #3 | 4781. | 16.47 | 5199. | 43.21 | 9.162 | 19.25 |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCVL      Acquired: 3/4/2016 17:19:35      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 16.62         | 20.43         | 52.74         | 32.26         | 46.74         | 21.03         |
| Stddev | 3.81          | 1.14          | .73           | .63           | .41           | .56           |
| %RSD   | 22.95         | 5.594         | 1.384         | 1.956         | .8778         | 2.669         |
| #1     | 18.08         | 19.47         | 53.57         | 32.96         | 47.15         | 21.62         |
| #2     | 19.48         | 20.12         | 52.46         | 31.73         | 46.33         | 20.96         |
| #3     | 12.29         | 21.69         | 52.20         | 32.09         | 46.76         | 20.50         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | 53.38         | 22.35         | 21.15         | F .2137       |
| Stddev | 1.02          | .25           | .28           | 19.01         |
| %RSD   | 1.921         | 1.119         | 1.310         | 8895.         |
| #1     | 52.34         | 22.23         | 21.44         | 19.15         |
| #2     | 54.39         | 22.64         | 21.13         | .3501         |
| #3     | 53.39         | 22.19         | 20.89         | -18.86        |

|         |          |          |          |          |
|---------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| Value   |          |          |          | 200.0    |
| Range   |          |          |          | -30.50%  |

| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
|-----------|---------------|---------------|---------------|
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | 2425.0        | 28022.        | 3652.5        |
| Stddev    | 54.1          | 649.          | 166.9         |
| %RSD      | 2.2323        | 2.3160        | 4.5695        |
| #1        | 2362.6        | 27272.        | 3459.8        |
| #2        | 2458.3        | 28403.        | 3752.6        |
| #3        | 2454.3        | 28389.        | 3745.0        |



Sample Name: 460-109572-E-8-B@4      Acquired: 3/4/2016 17:31:21      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2278.</b>  | <b>3.414</b>  | <b>-6671</b>  | <b>7.855</b>  | <b>.1545</b>  | <b>182.7</b>  |
| Stddev | 24.           | 1.925         | .2748         | .105          | .1273         | 2.8           |
| %RSD   | 1.033         | 56.40         | 41.19         | 1.336         | 82.40         | 1.512         |
| #1     | 2251.         | 4.300         | -.6425        | 7.858         | .2587         | 181.9         |
| #2     | 2294.         | 1.205         | -.4054        | 7.748         | .1923         | 185.8         |
| #3     | 2289.         | 4.737         | -.9534        | 7.958         | .0126         | 180.4         |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-1.031</b> | <b>-.0596</b> | <b>8.009</b>  | <b>.5795</b>  | <b>27150.</b> | <b>43.88</b>  |
| Stddev | .018          | .2438         | .402          | .4142         | 137.          | 62.38         |
| %RSD   | 1.706         | 409.1         | 5.020         | 71.48         | .5026         | 142.1         |
| #1     | -1.036        | -.3052        | 8.089         | .5742         | 27020.        | 68.46         |
| #2     | -1.011        | .1824         | 7.573         | .1679         | 27290.        | -27.04        |
| #3     | -1.044        | -.0560        | 8.366         | .9963         | 27130.        | 90.23         |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>37.09</b>  | <b>9.601</b>  | <b>26.92</b>  | <b>2.034</b>  | <b>5.443</b>  | <b>.8461</b>  |
| Stddev | 2.78          | .165          | 20.80         | .381          | .877          | 1.962         |
| %RSD   | 7.481         | 1.721         | 77.27         | 18.72         | 16.10         | 231.9         |
| #1     | 39.99         | 9.781         | 17.68         | 1.996         | 6.063         | 3.096         |
| #2     | 36.84         | 9.566         | 12.34         | 1.674         | 4.440         | -.0458        |
| #3     | 34.45         | 9.457         | 50.74         | 2.433         | 5.825         | -.5120        |

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

Sample Name: 460-109572-E-8-B@4      Acquired: 3/4/2016 17:31:21      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.8415</b>  | <b>-7.266</b> | <b>52.06</b>  | <b>3.562</b>  | <b>-.0745</b> | <b>1.112</b>  |
| Stddev | 1.412         | 2.359         | .27           | .051          | .4012         | .216          |
| %RSD   | 167.8         | 32.47         | .5100         | 1.427         | 538.8         | 19.42         |
| #1     | 1.686         | -9.942        | 51.85         | 3.574         | -.3420        | 1.256         |
| #2     | 1.627         | -5.487        | 52.36         | 3.605         | .3868         | .8635         |
| #3     | -.7882        | -6.370        | 51.97         | 3.505         | -.2682        | 1.216         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.635</b>  | <b>2.954</b>  | <b>70.67</b>  | <b>520.0</b>  |
| Stddev | .339          | .214          | .36           | 16.9          |
| %RSD   | 7.311         | 7.250         | .5129         | 3.251         |
| #1     | 4.869         | 2.727         | 70.66         | 509.8         |
| #2     | 4.246         | 2.982         | 71.04         | 539.6         |
| #3     | 4.788         | 3.153         | 70.31         | 510.8         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2384.0</b> | <b>27718.</b> | <b>3610.0</b> |
| Stddev    | 24.1          | 240.          | 55.1          |
| %RSD      | 1.0119        | .86669        | 1.5260        |
| #1        | 2356.2        | 27769.        | 3597.7        |
| #2        | 2399.4        | 27456.        | 3562.1        |
| #3        | 2396.4        | 27929.        | 3670.2        |

Sample Name: 460-109572-E-10-B@4      Acquired: 3/4/2016 17:39:07      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2607.</b>  | <b>5.288</b>  | <b>-.2464</b> | <b>6.859</b>  | <b>.0785</b>  | <b>38650.</b> |
| Stddev | 16.           | 1.734         | .5045         | .178          | .1183         | 409.          |
| %RSD   | .6093         | 32.78         | 204.7         | 2.600         | 150.8         | 1.058         |

|    |       |       |        |       |        |        |
|----|-------|-------|--------|-------|--------|--------|
| #1 | 2617. | 7.289 | -.1692 | 6.653 | .1141  | 39050. |
| #2 | 2615. | 4.274 | .2150  | 6.962 | -.0536 | 38230. |
| #3 | 2588. | 4.300 | -.7850 | 6.962 | .1749  | 38650. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.9405</b> | <b>.3496</b>  | <b>9.516</b>  | <b>.8573</b>  | <b>27010.</b> | <b>15.81</b>  |
| Stddev | .0884         | .1642         | .173          | .5327         | 205.          | 35.39         |
| %RSD   | 9.397         | 46.96         | 1.823         | 62.13         | .7582         | 223.8         |

|    |        |       |       |       |        |        |
|----|--------|-------|-------|-------|--------|--------|
| #1 | -1.016 | .2023 | 9.673 | .2689 | 27160. | -22.16 |
| #2 | -.9623 | .5266 | 9.545 | .9964 | 26780. | 21.72  |
| #3 | -.8433 | .3199 | 9.330 | 1.307 | 27100. | 47.87  |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>20810.</b> | <b>35.64</b>  | <b>129.1</b>  | <b>.4450</b>  | <b>4.343</b>  | <b>-.2012</b> |
| Stddev | 144.          | .28           | 2.0           | .1417         | .426          | 1.161         |
| %RSD   | .6907         | .7926         | 1.583         | 31.85         | 9.818         | 577.2         |

|    |        |       |       |       |       |        |
|----|--------|-------|-------|-------|-------|--------|
| #1 | 20960. | 35.84 | 130.1 | .4551 | 3.876 | .9870  |
| #2 | 20670. | 35.32 | 130.4 | .5813 | 4.711 | -.2571 |
| #3 | 20820. | 35.77 | 126.7 | .2985 | 4.443 | -1.333 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109572-E-10-B@4      Acquired: 3/4/2016 17:39:07      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.9704</b> | <b>-4.393</b> | <b>30.08</b>  | <b>4.354</b>  | <b>.0820</b>  | <b>.5479</b>  |
| Stddev | 3.717         | 1.264         | .26           | .092          | .1780         | .1067         |
| %RSD   | 383.0         | 28.78         | .8604         | 2.118         | 217.0         | 19.48         |
| #1     | .0143         | -5.820        | 30.29         | 4.459         | .1979         | .6540         |
| #2     | -5.080        | -3.413        | 30.15         | 4.288         | -.1229        | .5489         |
| #3     | 2.155         | -3.945        | 29.79         | 4.315         | .1711         | .4406         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>5.328</b>  | <b>12.08</b>  | <b>69.56</b>  | <b>488.9</b>  |
| Stddev | 1.034         | .14           | .34           | 21.4          |
| %RSD   | 19.40         | 1.150         | .4948         | 4.385         |
| #1     | 6.345         | 12.21         | 69.43         | 486.9         |
| #2     | 5.360         | 11.94         | 69.30         | 468.5         |
| #3     | 4.278         | 12.08         | 69.95         | 511.2         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2335.7</b> | <b>26923.</b> | <b>3403.2</b> |
| Stddev    | 73.7          | 1064.         | 170.2         |
| %RSD      | 3.1537        | 3.9518        | 5.0001        |
| #1        | 2252.3        | 25743.        | 3315.8        |
| #2        | 2391.8        | 27810.        | 3294.4        |
| #3        | 2363.0        | 27215.        | 3599.3        |

Sample Name: 460-109692-C-1-A@4      Acquired: 3/4/2016 17:43:03      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>76850.</b> | <b>9.278</b>  | <b>-.6303</b> | <b>191.6</b>  | <b>2.152</b>  | <b>3829.</b>  |
| Stddev | 613.          | 1.536         | .5186         | .6            | .149          | 16.           |
| %RSD   | .7975         | 16.56         | 82.27         | .3088         | 6.936         | .4252         |

|    |        |       |        |       |       |       |
|----|--------|-------|--------|-------|-------|-------|
| #1 | 76450. | 8.966 | -.1884 | 192.2 | 2.272 | 3811. |
| #2 | 77550. | 7.921 | -1.201 | 191.3 | 2.199 | 3836. |
| #3 | 76530. | 10.95 | -.5015 | 191.1 | 1.985 | 3841. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-1.398</b> | <b>21.25</b>  | <b>68.09</b>  | <b>38.60</b>  | <b>57490.</b> | <b>2583.</b>  |
| Stddev | .065          | .31           | .49           | .12           | 66.           | 28.           |
| %RSD   | 4.642         | 1.471         | .7236         | .3074         | .1150         | 1.091         |

|    |        |       |       |       |        |       |
|----|--------|-------|-------|-------|--------|-------|
| #1 | -1.454 | 21.50 | 67.52 | 38.56 | 57570. | 2616. |
| #2 | -1.414 | 21.35 | 68.38 | 38.73 | 57440. | 2570. |
| #3 | -1.327 | 20.90 | 68.37 | 38.50 | 57470. | 2565. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>5171.</b>  | <b>658.7</b>  | <b>277.0</b>  | <b>39.63</b>  | <b>30.14</b>  | <b>.5092</b>  |
| Stddev | 16.           | .4            | 2.4           | .68           | .42           | 1.413         |
| %RSD   | .3003         | .0635         | .8500         | 1.725         | 1.407         | 277.5         |

|    |       |       |       |       |       |        |
|----|-------|-------|-------|-------|-------|--------|
| #1 | 5155. | 658.4 | 274.4 | 40.18 | 30.16 | 2.141  |
| #2 | 5175. | 659.2 | 279.0 | 39.84 | 30.56 | -.2828 |
| #3 | 5185. | 658.7 | 277.6 | 38.86 | 29.71 | -.3304 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109692-C-1-A@4      Acquired: 3/4/2016 17:43:03      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2.309</b>  | <b>-6.847</b> | <b>118.4</b>  | <b>104.2</b>  | <b>2.853</b>  | <b>1.843</b>  |
| Stddev | 2.796         | 2.810         | 1.3           | .6            | .498          | .344          |
| %RSD   | 121.1         | 41.04         | 1.067         | .5866         | 17.44         | 18.69         |
| #1     | 5.287         | -3.649        | 117.0         | 104.9         | 2.280         | 1.480         |
| #2     | 1.899         | -8.925        | 119.2         | 103.9         | 3.100         | 2.166         |
| #3     | -.2592        | -7.966        | 119.0         | 103.7         | 3.178         | 1.884         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>3.557</b>  | <b>28.66</b>  | <b>1382.</b>  | <b>930.0</b>  |
| Stddev | 1.430         | .26           | 3.            | 26.6          |
| %RSD   | 40.21         | .9062         | .2179         | 2.857         |
| #1     | 2.272         | 28.73         | 1386.         | 952.7         |
| #2     | 3.300         | 28.88         | 1381.         | 900.8         |
| #3     | 5.098         | 28.37         | 1380.         | 936.7         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |
| Low Limit  |          |          |          |          |

| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
|-----------|---------------|---------------|---------------|
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2420.1</b> | <b>28020.</b> | <b>3591.9</b> |
| Stddev    | 44.6          | 207.          | 123.2         |
| %RSD      | 1.8412        | .73992        | 3.4301        |
| #1        | 2372.0        | 28123.        | 3662.9        |
| #2        | 2428.2        | 27781.        | 3449.7        |
| #3        | 2460.0        | 28156.        | 3663.2        |

Sample Name: 460-109692-C-2-A@4      Acquired: 3/4/2016 17:46:55      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>82830.</b> | <b>14.08</b>  | <b>-8846</b>  | <b>226.6</b>  | <b>2.351</b>  | <b>3180.</b>  |
| Stddev | 576.          | 2.82          | .3294         | .4            | .197          | 17.           |
| %RSD   | .6957         | 20.02         | 37.23         | .1560         | 8.386         | .5371         |
| #1     | 83430.        | 17.02         | -1.209        | 227.0         | 2.390         | 3162.         |
| #2     | 82770.        | 11.40         | -.8938        | 226.3         | 2.526         | 3182.         |
| #3     | 82280.        | 13.81         | -.5508        | 226.5         | 2.137         | 3196.         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-1.982</b> | <b>23.15</b>  | <b>74.37</b>  | <b>29.85</b>  | <b>75110.</b> | <b>2691.</b>  |
| Stddev | .101          | .50           | .13           | .41           | 419.          | 28.           |
| %RSD   | 5.092         | 2.168         | .1711         | 1.372         | .5582         | 1.030         |
| #1     | -1.877        | 23.52         | 74.24         | 29.39         | 74630.        | 2711.         |
| #2     | -2.078        | 23.36         | 74.49         | 30.18         | 75410.        | 2702.         |
| #3     | -1.990        | 22.58         | 74.38         | 29.97         | 75280.        | 2659.         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>5176.</b>  | <b>623.1</b>  | <b>541.7</b>  | <b>41.34</b>  | <b>48.64</b>  | <b>.3780</b>  |
| Stddev | 42.           | 2.5           | 9.7           | .23           | 1.11          | .8662         |
| %RSD   | .8116         | .3944         | 1.794         | .5599         | 2.272         | 229.1         |
| #1     | 5127.         | 621.2         | 531.3         | 41.45         | 49.74         | -.4993        |
| #2     | 5203.         | 625.9         | 543.3         | 41.50         | 47.53         | 1.233         |
| #3     | 5197.         | 622.2         | 550.6         | 41.08         | 48.64         | .4007         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109692-C-2-A@4      Acquired: 3/4/2016 17:46:55      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196          | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|----------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472}  | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)       | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb            | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-0.0343</b> | <b>-7.328</b> | <b>128.6</b>  | <b>108.8</b>  | <b>1.672</b>  | <b>2.509</b>  |
| Stddev | 1.388          | .513          | .8            | .6            | .486          | .105          |
| %RSD   | 4045.          | 7.006         | .6378         | .5723         | 29.05         | 4.188         |
| #1     | 1.560          | -7.184        | 127.8         | 108.4         | 2.214         | 2.417         |
| #2     | -.6898         | -7.899        | 128.6         | 108.6         | 1.276         | 2.487         |
| #3     | -.9735         | -6.903        | 129.5         | 109.6         | 1.526         | 2.623         |

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

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.686</b>  | <b>35.78</b>  | <b>1472.</b>  | <b>956.3</b>  |
| Stddev | .619          | .21           | 6.            | 22.7          |
| %RSD   | 13.20         | .5935         | .4119         | 2.375         |
| #1     | 5.329         | 36.02         | 1466.         | 943.6         |
| #2     | 4.095         | 35.71         | 1477.         | 942.8         |
| #3     | 4.634         | 35.61         | 1475.         | 982.5         |

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       | <b>2511.5</b> | <b>28436.</b> | <b>3689.6</b> |
| Stddev    | 16.5          | 311.          | 156.1         |
| %RSD      | .65876        | 1.0953        | 4.2316        |
| #1        | 2495.9        | 28175.        | 3525.8        |
| #2        | 2509.8        | 28353.        | 3706.4        |
| #3        | 2528.8        | 28781.        | 3836.7        |



Sample Name: sd 460-109572-E-7-B      Acquired: 3/4/2016 16:56:43      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>634.7</b>  | <b>1.010</b>  | <b>-7346</b>  | <b>1.850</b>  | <b>.1265</b>  | <b>-34.39</b> |
| Stddev | 26.1          | .290          | .3076         | .098          | .1410         | 5.38          |
| %RSD   | 4.106         | 28.70         | 41.88         | 5.315         | 111.5         | 15.65         |

|    |       |       |        |       |        |        |
|----|-------|-------|--------|-------|--------|--------|
| #1 | 616.1 | 1.018 | -1.069 | 1.933 | -.0358 | -39.77 |
| #2 | 664.5 | 1.295 | -.4629 | 1.741 | .2192  | -29.00 |
| #3 | 623.5 | .7159 | -.6723 | 1.875 | .1960  | -34.39 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.0278</b>  | <b>.4971</b>  | <b>.7641</b>  | <b>-1.163</b> | <b>309.3</b>  | <b>-4.903</b> |
| Stddev | .0227         | .2703         | .2891         | .466          | 8.2           | 35.39         |
| %RSD   | 81.63         | 54.39         | 37.83         | 40.09         | 2.638         | 721.8         |

|    |       |       |       |        |       |        |
|----|-------|-------|-------|--------|-------|--------|
| #1 | .0017 | .5927 | .6629 | -1.682 | 311.4 | -44.99 |
| #2 | .0393 | .1919 | .5392 | -1.025 | 316.2 | 22.00  |
| #3 | .0425 | .7066 | 1.090 | -.7808 | 300.3 | 8.288  |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |                |               |               |
|--------|---------------|---------------|---------------|----------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316         | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446}  | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)       | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb            | ppb           | ppb           |
| Avg    | <b>16.60</b>  | <b>1.220</b>  | <b>8.737</b>  | <b>-1.1913</b> | <b>3.868</b>  | <b>-.3175</b> |
| Stddev | 3.86          | .048          | 6.146         | .2375          | .657          | 1.501         |
| %RSD   | 23.24         | 3.970         | 70.35         | 124.2          | 16.99         | 472.7         |

|    |       |       |       |        |       |        |
|----|-------|-------|-------|--------|-------|--------|
| #1 | 12.15 | 1.249 | 3.234 | -.0988 | 4.626 | -1.901 |
| #2 | 19.03 | 1.247 | 7.607 | -.0140 | 3.500 | 1.085  |
| #3 | 18.61 | 1.164 | 15.37 | -.4611 | 3.476 | -.1369 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: sd 460-109572-E-7-B      Acquired: 3/4/2016 16:56:43      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | -1.385        | -1.938        | 1.091         | 1.752         | -.0813        | .0589         |
| Stddev | .918          | 1.089         | .449          | .126          | .2441         | .0786         |
| %RSD   | 66.29         | 56.18         | 41.10         | 7.218         | 300.2         | 133.5         |
| #1     | -2.440        | -.9001        | 1.605         | 1.886         | -.2329        | -.0160        |
| #2     | -.7752        | -1.842        | .8905         | 1.734         | -.2113        | .1408         |
| #3     | -.9384        | -3.071        | .7780         | 1.635         | .2003         | .0518         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | 2.348         | .5214         | 21.79         | 118.2         |
| Stddev | .460          | .1352         | .15           | 7.1           |
| %RSD   | 19.58         | 25.94         | .6858         | 6.016         |
| #1     | 2.833         | .3665         | 21.89         | 110.9         |
| #2     | 1.919         | .6161         | 21.62         | 118.5         |
| #3     | 2.290         | .5817         | 21.86         | 125.1         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |
| Low Limit  |          |          |          |          |

|           |               |               |               |
|-----------|---------------|---------------|---------------|
| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | 2400.9        | 27355.        | 3655.5        |
| Stddev    | 26.3          | 449.          | 19.8          |
| %RSD      | 1.0937        | 1.6399        | .54202        |
| #1        | 2417.6        | 27855.        | 3633.5        |
| #2        | 2414.6        | 27223.        | 3672.0        |
| #3        | 2370.7        | 26987.        | 3660.9        |

Sample Name: 460-109614-G-3-A@4      Acquired: 3/4/2016 17:58:24      Type: Unk

Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000

User: admin      Custom ID1:      Custom ID2:      Custom ID3:

Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>26460.</b> | <b>117.5</b>  | <b>.5036</b>  | <b>853.5</b>  | <b>2.888</b>  | <b>20200.</b> |
| Stddev | 67.           | .7            | .5443         | 1.8           | .083          | 70.           |
| %RSD   | .2528         | .5915         | 108.1         | .2140         | 2.880         | .3446         |

|    |        |       |        |       |       |        |
|----|--------|-------|--------|-------|-------|--------|
| #1 | 26470. | 117.3 | 1.016  | 855.5 | 2.830 | 20140. |
| #2 | 26390. | 116.9 | .5630  | 852.9 | 2.851 | 20180. |
| #3 | 26520. | 118.3 | -.0680 | 852.0 | 2.983 | 20270. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-1.463</b> | <b>27.27</b>  | <b>86.66</b>  | <b>288.7</b>  | <b>88980.</b> | <b>3724.</b>  |
| Stddev | .098          | .12           | .17           | .8            | 189.          | 17.           |
| %RSD   | 6.706         | .4304         | .1978         | .2866         | .2127         | .4499         |

|    |        |       |       |       |        |       |
|----|--------|-------|-------|-------|--------|-------|
| #1 | -1.575 | 27.33 | 86.79 | 289.7 | 88850. | 3743. |
| #2 | -1.425 | 27.34 | 86.46 | 288.4 | 88890. | 3715. |
| #3 | -1.390 | 27.13 | 86.72 | 288.1 | 89190. | 3713. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>7851.</b>  | <b>3238.</b>  | <b>1119.</b>  | <b>72.92</b>  | <b>559.6</b>  | <b>2.943</b>  |
| Stddev | 23.           | 4.            | 12.           | .44           | 3.0           | .303          |
| %RSD   | .2992         | .1361         | 1.083         | .5982         | .5386         | 10.31         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 7829. | 3234. | 1106. | 73.08 | 559.8 | 2.632 |
| #2 | 7849. | 3238. | 1121. | 73.25 | 562.5 | 2.959 |
| #3 | 7876. | 3243. | 1130. | 72.42 | 556.5 | 3.238 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109614-G-3-A@4      Acquired: 3/4/2016 17:58:24      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>6.140</b>  | <b>-5.456</b> | <b>152.5</b>  | <b>1053.</b>  | <b>6.291</b>  | <b>19.96</b>  |
| Stddev | 2.067         | .752          | 1.4           | 3.            | .130          | .19           |
| %RSD   | 33.66         | 13.78         | .9258         | .3250         | 2.061         | .9607         |
| #1     | 3.754         | -6.121        | 153.6         | 1053.         | 6.366         | 19.75         |
| #2     | 7.285         | -4.640        | 150.9         | 1056.         | 6.142         | 20.14         |
| #3     | 7.381         | -5.607        | 153.1         | 1049.         | 6.367         | 19.98         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>30.88</b>  | <b>301.9</b>  | <b>1543.</b>  | <b>814.1</b>  |
| Stddev | .43           | 1.6           | 3.            | 37.4          |
| %RSD   | 1.397         | .5305         | .1645         | 4.587         |
| #1     | 30.61         | 303.7         | 1540.         | 803.9         |
| #2     | 30.65         | 300.6         | 1543.         | 855.5         |
| #3     | 31.38         | 301.4         | 1545.         | 782.9         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2496.1</b> | <b>28384.</b> | <b>3764.7</b> |
| Stddev    | 32.8          | 82.           | 31.4          |
| %RSD      | 1.3139        | .29026        | .83310        |
| #1        | 2470.6        | 28290.        | 3784.9        |
| #2        | 2484.6        | 28421.        | 3780.7        |
| #3        | 2533.1        | 28442.        | 3728.6        |

Sample Name: CCB      Acquired: 3/4/2016 17:15:35      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-10.21</b> | <b>3.033</b>  | <b>-.4097</b> | <b>.1232</b>  | <b>-.0047</b> | <b>-65.31</b> |
| Stddev | 21.09         | 2.687         | .2019         | .1035         | .1216         | 8.07          |
| %RSD   | 206.6         | 88.59         | 49.27         | 84.02         | 2566.         | 12.36         |
| #1     | -6.063        | 5.602         | -.5390        | .2245         | -.0322        | -70.93        |
| #2     | 8.497         | 3.256         | -.1771        | .0175         | .1282         | -56.06        |
| #3     | -33.06        | .2414         | -.5130        | .1277         | -.1102        | -68.95        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>.1676</b>  | <b>.4553</b>  | <b>.8173</b>  | <b>-2.464</b> | <b>6.381</b>  | <b>-40.11</b> |
| Stddev | .1809         | .0431         | .0541         | .219          | 13.59         | 37.78         |
| %RSD   | 108.0         | 9.477         | 6.623         | 8.878         | 213.0         | 94.20         |
| #1     | .1117         | .4669         | .8726         | -2.354        | 2.976         | -11.69        |
| #2     | .0211         | .4075         | .8147         | -2.321        | 21.35         | -82.99        |
| #3     | .3698         | .4914         | .7644         | -2.716        | -5.187        | -25.65        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>5.347</b>  | <b>.2436</b>  | <b>7.548</b>  | <b>-1.125</b> | <b>1.419</b>  | <b>.8227</b>  |
| Stddev | 4.824         | .1495         | 7.132         | .360          | 1.101         | .1361         |
| %RSD   | 90.21         | 61.39         | 94.50         | 32.02         | 77.58         | 16.54         |
| #1     | 6.545         | .1435         | 2.845         | -1.052        | 1.088         | .8974         |
| #2     | .0374         | .4155         | 15.75         | -.8073        | .5212         | .6657         |
| #3     | 9.460         | .1718         | 4.044         | -1.517        | 2.647         | .9051         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: CCB      Acquired: 3/4/2016 17:15:35      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-1.947</b> | <b>-1.187</b> | <b>.7864</b>  | <b>.3070</b>  | <b>.5961</b>  | <b>.9798</b>  |
| Stddev | 2.490         | 1.299         | .3758         | .0781         | .4070         | .3300         |
| %RSD   | 127.9         | 109.4         | 47.79         | 25.45         | 68.27         | 33.68         |
| #1     | .1341         | -1.833        | 1.129         | .3274         | .3174         | 1.356         |
| #2     | -1.270        | .3076         | .8458         | .3728         | 1.063         | .7375         |
| #3     | -4.705        | -2.036        | .3845         | .2207         | .4079         | .8461         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.478</b>  | <b>.3348</b>  | <b>.8389</b>  | <b>-10.94</b> |
| Stddev | .384          | .1720         | .2835         | 20.92         |
| %RSD   | 25.98         | 51.39         | 33.80         | 191.3         |
| #1     | 1.042         | .5287         | 1.166         | 9.760         |
| #2     | 1.625         | .2006         | .6669         | -10.50        |
| #3     | 1.766         | .2749         | .6837         | -32.08        |

|            |          |          |          |      |
|------------|----------|----------|----------|------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | None |
| High Limit |          |          |          |      |
| Low Limit  |          |          |          |      |

|           |               |               |               |
|-----------|---------------|---------------|---------------|
| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2311.4</b> | <b>26286.</b> | <b>3441.9</b> |
| Stddev    | 11.0          | 514.          | 37.5          |
| %RSD      | .47651        | 1.9551        | 1.0902        |
| #1        | 2322.1        | 26480.        | 3473.8        |
| #2        | 2312.1        | 26675.        | 3451.3        |
| #3        | 2300.1        | 25703.        | 3400.5        |

Sample Name: CCVL      Acquired: 3/4/2016 18:09:49      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>242.4</b>  | <b>14.93</b>  | <b>9.772</b>  | <b>214.2</b>  | <b>2.402</b>  | <b>5228.</b>  |
| Stddev | 23.8          | .47           | .510          | 1.0           | .234          | 11.           |
| %RSD   | 9.805         | 3.123         | 5.215         | .4486         | 9.721         | .2147         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 252.7 | 14.56 | 9.302 | 215.3 | 2.643 | 5217. |
| #2 | 259.3 | 15.45 | 10.31 | 213.7 | 2.386 | 5239. |
| #3 | 215.2 | 14.77 | 9.699 | 213.6 | 2.177 | 5230. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4.462</b>  | <b>54.82</b>  | <b>11.43</b>  | <b>24.31</b>  | <b>172.3</b>  | <b>5221.</b>  |
| Stddev | .171          | .39           | .65           | 1.26          | 19.1          | 10.           |
| %RSD   | 3.830         | .7049         | 5.699         | 5.167         | 11.11         | .1857         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 4.645 | 55.26 | 12.16 | 25.70 | 194.1 | 5211. |
| #2 | 4.306 | 54.56 | 11.21 | 23.96 | 164.3 | 5224. |
| #3 | 4.434 | 54.64 | 10.91 | 23.26 | 158.4 | 5229. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4981.</b>  | <b>17.41</b>  | <b>5209.</b>  | <b>43.91</b>  | <b>9.632</b>  | <b>20.11</b>  |
| Stddev | 12.           | .86           | 28.           | .10           | 1.871         | .57           |
| %RSD   | .2311         | 4.936         | .5451         | .2184         | 19.42         | 2.833         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 4988. | 18.40 | 5209. | 44.01 | 11.19 | 19.96 |
| #2 | 4986. | 16.97 | 5238. | 43.91 | 10.15 | 19.64 |
| #3 | 4967. | 16.86 | 5181. | 43.82 | 7.557 | 20.75 |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCVL      Acquired: 3/4/2016 18:09:49      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 17.96         | 21.61         | 54.26         | 33.14         | 47.00         | 20.95         |
| Stddev | 2.02          | 2.80          | .43           | .45           | .37           | .63           |
| %RSD   | 11.27         | 12.95         | .7869         | 1.358         | .7862         | 3.003         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 19.94 | 24.76 | 54.38 | 33.51 | 47.09 | 21.63 |
| #2 | 15.89 | 20.65 | 53.78 | 33.27 | 47.31 | 20.39 |
| #3 | 18.05 | 19.42 | 54.61 | 32.64 | 46.59 | 20.82 |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | 52.56         | 22.86         | 22.34         | F -2.815      |
| Stddev | 1.29          | .65           | 1.35          | 4.599         |
| %RSD   | 2.444         | 2.827         | 6.051         | 163.4         |

|    |       |       |       |        |
|----|-------|-------|-------|--------|
| #1 | 53.68 | 23.16 | 23.88 | 1.082  |
| #2 | 52.83 | 23.29 | 21.84 | -1.638 |
| #3 | 51.16 | 22.11 | 21.32 | -7.888 |

|         |          |          |          |          |
|---------|----------|----------|----------|----------|
| 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       | 2437.2        | 27738.        | 3744.8        |
| Stddev    | 3.9           | 204.          | 40.7          |
| %RSD      | .15950        | .73501        | 1.0877        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2441.7 | 27953. | 3786.5 |
| #2 | 2434.9 | 27716. | 3705.1 |
| #3 | 2435.0 | 27547. | 3742.8 |



Sample Name: 460-109614-F-4-A@4      Acquired: 3/4/2016 18:13:44      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>26600.</b> | <b>61.60</b>  | <b>.3650</b>  | <b>613.2</b>  | <b>2.570</b>  | <b>11050.</b> |
| Stddev | 9.            | 2.20          | .0958         | .9            | .077          | 53.           |
| %RSD   | .0328         | 3.574         | 26.24         | .1421         | 3.008         | .4801         |
| #1     | 26600.        | 64.13         | .4748         | 614.0         | 2.494         | 11110.        |
| #2     | 26600.        | 60.53         | .2980         | 612.3         | 2.567         | 11060.        |
| #3     | 26590.        | 60.14         | .3224         | 613.2         | 2.649         | 11000.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.3693</b>  | <b>26.02</b>  | <b>424.4</b>  | <b>366.5</b>  | <b>77090.</b> | <b>2302.</b>  |
| Stddev | .0813         | .13           | 1.8           | 2.3           | 73.           | 34.           |
| %RSD   | 22.01         | .4804         | .4166         | .6340         | .0944         | 1.465         |
| #1     | .3359         | 25.91         | 422.8         | 364.5         | 77040.        | 2297.         |
| #2     | .3100         | 26.01         | 424.2         | 366.0         | 77170.        | 2272.         |
| #3     | .4619         | 26.16         | 426.3         | 369.1         | 77040.        | 2339.         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>5648.</b>  | <b>674.7</b>  | <b>951.2</b>  | <b>73.06</b>  | <b>757.1</b>  | <b>7.880</b>  |
| Stddev | 12.           | 1.1           | 7.7           | .64           | 4.4           | .961          |
| %RSD   | .2173         | .1687         | .8060         | .8751         | .5830         | 12.19         |
| #1     | 5633.         | 675.2         | 958.7         | 73.79         | 752.1         | 8.765         |
| #2     | 5655.         | 675.6         | 951.4         | 72.59         | 758.7         | 6.858         |
| #3     | 5655.         | 673.5         | 943.4         | 72.80         | 760.4         | 8.016         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109614-F-4-A@4      Acquired: 3/4/2016 18:13:44      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>6.819</b>  | <b>-4.253</b> | <b>161.2</b>  | <b>734.9</b>  | <b>11.03</b>  | <b>8.666</b>  |
| Stddev | 1.708         | 2.033         | .9            | 4.3           | .26           | .141          |
| %RSD   | 25.04         | 47.80         | .5534         | .5793         | 2.378         | 1.625         |
| #1     | 4.996         | -3.370        | 160.6         | 730.6         | 11.11         | 8.758         |
| #2     | 7.078         | -2.811        | 160.7         | 735.0         | 10.74         | 8.504         |
| #3     | 8.381         | -6.578        | 162.2         | 739.1         | 11.25         | 8.736         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>40.21</b>  | <b>162.6</b>  | <b>1466.</b>  | <b>718.5</b>  |
| Stddev | .72           | .4            | 2.            | 13.1          |
| %RSD   | 1.785         | .2429         | .1181         | 1.818         |
| #1     | 40.57         | 163.1         | 1465.         | 703.4         |
| #2     | 39.38         | 162.4         | 1465.         | 726.2         |
| #3     | 40.67         | 162.4         | 1468.         | 726.0         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |
| Low Limit  |          |          |          |          |

| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
|-----------|---------------|---------------|---------------|
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2515.6</b> | <b>28941.</b> | <b>3870.3</b> |
| Stddev    | 22.5          | 618.          | 153.7         |
| %RSD      | .89364        | 2.1365        | 3.9724        |
| #1        | 2499.2        | 28391.        | 3709.6        |
| #2        | 2506.3        | 28823.        | 3885.1        |
| #3        | 2541.2        | 29611.        | 4016.0        |

Sample Name: 460-109614-F-6-A@4      Acquired: 3/4/2016 18:21:26      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>38960.</b> | <b>44.91</b>  | <b>.5052</b>  | <b>734.4</b>  | <b>2.275</b>  | <b>48410.</b> |
| Stddev | 175.          | 2.53          | .7075         | 2.4           | .082          | 127.          |
| %RSD   | .4503         | 5.630         | 140.0         | .3309         | 3.607         | .2631         |
| #1     | 38760.        | 43.72         | .4813         | 737.2         | 2.354         | 48260.        |
| #2     | 39110.        | 47.81         | 1.224         | 733.5         | 2.280         | 48470.        |
| #3     | 38990.        | 43.20         | -.1900        | 732.6         | 2.190         | 48490.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>3.143</b>  | <b>29.50</b>  | <b>95.26</b>  | <b>299.2</b>  | <b>73000.</b> | <b>4029.</b>  |
| Stddev | .221          | .22           | .62           | 3.5           | 279.          | 30.           |
| %RSD   | 7.031         | .7578         | .6465         | 1.156         | .3821         | .7382         |
| #1     | 3.234         | 29.59         | 94.56         | 296.0         | 72680.        | 4026.         |
| #2     | 2.891         | 29.66         | 95.57         | 298.6         | 73170.        | 4000.         |
| #3     | 3.304         | 29.24         | 95.67         | 302.9         | 73160.        | 4060.         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>10650.</b> | <b>1157.</b>  | <b>1912.</b>  | <b>69.43</b>  | <b>685.6</b>  | <b>2.899</b>  |
| Stddev | 24.           | 7.            | 6.            | .26           | 1.0           | 1.601         |
| %RSD   | .2215         | .5699         | .2894         | .3742         | .1496         | 55.25         |
| #1     | 10630.        | 1149.         | 1917.         | 69.52         | 685.5         | 4.582         |
| #2     | 10670.        | 1158.         | 1906.         | 69.13         | 684.6         | 1.394         |
| #3     | 10660.        | 1162.         | 1913.         | 69.63         | 686.6         | 2.721         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109614-F-6-A@4      Acquired: 3/4/2016 18:21:26      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2.456</b>  | <b>-5.812</b> | <b>191.6</b>  | <b>698.8</b>  | <b>25.52</b>  | <b>8.472</b>  |
| Stddev | 3.184         | 1.845         | 2.0           | 2.1           | .81           | .177          |
| %RSD   | 129.6         | 31.75         | 1.054         | .2962         | 3.184         | 2.093         |
| #1     | 2.813         | -4.112        | 189.6         | 696.5         | 24.69         | 8.289         |
| #2     | -.8907        | -5.551        | 191.6         | 699.4         | 26.31         | 8.483         |
| #3     | 5.447         | -7.774        | 193.6         | 700.5         | 25.58         | 8.643         |

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

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>32.95</b>  | <b>260.0</b>  | <b>1405.</b>  | <b>938.8</b>  |
| Stddev | .70           | 1.0           | 7.            | 27.2          |
| %RSD   | 2.121         | .3769         | .5242         | 2.894         |
| #1     | 32.16         | 259.7         | 1397.         | 908.0         |
| #2     | 33.48         | 261.1         | 1407.         | 959.1         |
| #3     | 33.21         | 259.3         | 1412.         | 949.5         |

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       | <b>2475.5</b> | <b>28756.</b> | <b>3894.3</b> |
| Stddev    | 6.5           | 257.          | 37.4          |
| %RSD      | .26402        | .89490        | .96057        |
| #1        | 2483.0        | 29034.        | 3872.6        |
| #2        | 2470.8        | 28710.        | 3937.5        |
| #3        | 2472.7        | 28525.        | 3872.9        |

Sample Name: 460-109572-E-5-B@4      Acquired: 3/4/2016 17:23:29      Type: Unk

Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000

User: admin      Custom ID1:      Custom ID2:      Custom ID3:

Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>3270.</b>  | <b>-8446</b>  | <b>-5592</b>  | <b>7.743</b>  | <b>.0025</b>  | <b>-5.173</b> |
| Stddev | 29.           | .7642         | .1665         | .073          | .1099         | 3.277         |
| %RSD   | .8948         | 90.48         | 29.77         | .9401         | 4478.         | 63.35         |

|    |       |        |        |       |        |        |
|----|-------|--------|--------|-------|--------|--------|
| #1 | 3237. | -1.683 | -.4742 | 7.677 | .0696  | -2.268 |
| #2 | 3293. | -.6650 | -.4523 | 7.821 | .0621  | -8.725 |
| #3 | 3280. | -.1862 | -.7510 | 7.733 | -.1244 | -4.526 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.0826</b> | <b>.1587</b>  | <b>5.049</b>  | <b>-1.037</b> | <b>2028.</b>  | <b>117.0</b>  |
| Stddev | .0882         | .1565         | .168          | .752          | 20.           | 25.1          |
| %RSD   | 106.7         | 98.63         | 3.325         | 72.54         | .9913         | 21.44         |

|    |        |       |       |        |       |       |
|----|--------|-------|-------|--------|-------|-------|
| #1 | -.1580 | .0680 | 5.216 | -1.345 | 2023. | 112.3 |
| #2 | -.1043 | .3395 | 4.880 | -1.585 | 2011. | 144.0 |
| #3 | .0144  | .0687 | 5.050 | -.1794 | 2050. | 94.54 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>78.09</b>  | <b>5.627</b>  | <b>48.12</b>  | <b>.6661</b>  | <b>3.331</b>  | <b>1.874</b>  |
| Stddev | 2.40          | .054          | 15.41         | .7255         | .731          | 1.097         |
| %RSD   | 3.078         | .9539         | 32.02         | 108.9         | 21.94         | 58.57         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 75.36 | 5.572 | 51.96 | 1.461 | 2.614 | 3.113 |
| #2 | 79.07 | 5.679 | 61.24 | .4992 | 3.304 | 1.482 |
| #3 | 79.86 | 5.629 | 31.15 | .0386 | 4.075 | 1.025 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109572-E-5-B@4      Acquired: 3/4/2016 17:23:29      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-5.997</b> | <b>-3.906</b> | <b>4.415</b>  | <b>2.485</b>  | <b>2.273</b>  | <b>.9326</b>  |
| Stddev | 3.339         | 3.300         | .698          | .227          | .332          | .3393         |
| %RSD   | 556.8         | 84.48         | 15.80         | 9.129         | 14.61         | 36.38         |
| #1     | -3.289        | -1.197        | 3.612         | 2.523         | 2.620         | .7066         |
| #2     | -1.648        | -2.940        | 4.871         | 2.691         | 1.958         | 1.323         |
| #3     | 3.138         | -7.581        | 4.761         | 2.242         | 2.242         | .7686         |

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

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.028</b>  | <b>2.695</b>  | <b>191.4</b>  | <b>629.5</b>  |
| Stddev | .613          | .138          | .7            | 28.7          |
| %RSD   | 15.21         | 5.108         | .3684         | 4.561         |
| #1     | 4.716         | 2.596         | 191.0         | 607.5         |
| #2     | 3.540         | 2.852         | 191.1         | 662.0         |
| #3     | 3.827         | 2.637         | 192.3         | 619.1         |

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

| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
|-----------|---------------|---------------|---------------|
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2409.4</b> | <b>27496.</b> | <b>3673.3</b> |
| Stddev    | 12.8          | 204.          | 42.6          |
| %RSD      | .53135        | .74075        | 1.1598        |
| #1        | 2411.8        | 27420.        | 3684.3        |
| #2        | 2420.9        | 27726.        | 3709.4        |
| #3        | 2395.6        | 27341.        | 3626.3        |

Sample Name: 460-109572-E-6-B@4      Acquired: 3/4/2016 17:27:25      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>7944.</b>  | <b>4.452</b>  | <b>-8675</b>  | <b>15.02</b>  | <b>.3113</b>  | <b>11.80</b>  |
| Stddev | 149.          | 2.218         | .4776         | .13           | .0646         | 2.50          |
| %RSD   | 1.879         | 49.81         | 55.05         | .8966         | 20.74         | 21.17         |
| #1     | 7797.         | 3.384         | -.4359        | 14.89         | .3721         | 11.84         |
| #2     | 7940.         | 2.970         | -.7860        | 15.16         | .2436         | 9.282         |
| #3     | 8096.         | 7.001         | -1.381        | 15.01         | .3183         | 14.28         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.7193</b> | <b>1.203</b>  | <b>14.95</b>  | <b>3.525</b>  | <b>19340.</b> | <b>294.4</b>  |
| Stddev | .0383         | .626          | .46           | .814          | 83.           | 17.6          |
| %RSD   | 5.326         | 52.08         | 3.110         | 23.09         | .4305         | 5.967         |
| #1     | -.6886        | .4833         | 15.46         | 4.211         | 19320.        | 274.7         |
| #2     | -.7623        | 1.627         | 14.84         | 3.739         | 19260.        | 308.5         |
| #3     | -.7071        | 1.497         | 14.55         | 2.626         | 19430.        | 299.9         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>279.2</b>  | <b>11.36</b>  | <b>29.86</b>  | <b>4.056</b>  | <b>9.871</b>  | <b>-.2343</b> |
| Stddev | 5.7           | .07           | 5.85          | .184          | 1.623         | 1.115         |
| %RSD   | 2.025         | .6309         | 19.58         | 4.544         | 16.44         | 475.9         |
| #1     | 285.5         | 11.30         | 33.39         | 4.059         | 8.160         | -1.309        |
| #2     | 274.7         | 11.33         | 33.07         | 4.239         | 11.39         | .9172         |
| #3     | 277.3         | 11.44         | 23.11         | 3.870         | 10.06         | -.3111        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109572-E-6-B@4      Acquired: 3/4/2016 17:27:25      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.3055</b>  | <b>-5.090</b> | <b>48.27</b>  | <b>7.801</b>  | <b>1.617</b>  | <b>11.79</b>  |
| Stddev | .7709         | 1.194         | .35           | .138          | .169          | .56           |
| %RSD   | 252.3         | 23.45         | .7162         | 1.774         | 10.43         | 4.783         |
| #1     | -5.442        | -3.803        | 47.94         | 7.933         | 1.728         | 11.70         |
| #2     | .9600         | -5.304        | 48.23         | 7.813         | 1.423         | 11.27         |
| #3     | .5008         | -6.161        | 48.63         | 7.657         | 1.701         | 12.39         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.735</b>  | <b>3.801</b>  | <b>203.6</b>  | <b>716.1</b>  |
| Stddev | .923          | .085          | 1.4           | 13.1          |
| %RSD   | 19.49         | 2.227         | .6803         | 1.822         |
| #1     | 5.772         | 3.719         | 203.1         | 721.5         |
| #2     | 4.003         | 3.796         | 202.6         | 725.5         |
| #3     | 4.431         | 3.888         | 205.2         | 701.2         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2262.1</b> | <b>25893.</b> | <b>3401.1</b> |
| Stddev    | 53.0          | 625.          | 159.8         |
| %RSD      | 2.3451        | 2.4141        | 4.6992        |
| #1        | 2323.3        | 26387.        | 3548.0        |
| #2        | 2231.1        | 26101.        | 3424.5        |
| #3        | 2231.8        | 25190.        | 3230.9        |



Sample Name: 460-109644-D-3-A@4      Acquired: 3/4/2016 18:36:56      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>9975.</b>  | <b>5.604</b>  | <b>-.2072</b> | <b>40.54</b>  | <b>.5952</b>  | <b>2780.</b>  |
| Stddev | 91.           | 1.030         | .4292         | .28           | .0838         | 24.           |
| %RSD   | .9095         | 18.38         | 207.2         | .6847         | 14.08         | .8697         |
| #1     | 9913.         | 4.649         | -.2075        | 40.22         | .5221         | 2757.         |
| #2     | 10080.        | 5.467         | .2222         | 40.75         | .5768         | 2805.         |
| #3     | 9934.         | 6.696         | -.6362        | 40.63         | .6866         | 2777.         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.0648</b> | <b>4.905</b>  | <b>41.36</b>  | <b>23.88</b>  | <b>16760.</b> | <b>653.8</b>  |
| Stddev | .0453         | .108          | .75           | .17           | 104.          | 30.5          |
| %RSD   | 69.86         | 2.196         | 1.808         | .7234         | .6189         | 4.658         |
| #1     | -.1124        | 5.016         | 41.93         | 24.00         | 16640.        | 635.0         |
| #2     | -.0224        | 4.801         | 41.62         | 23.68         | 16840.        | 637.5         |
| #3     | -.0595        | 4.899         | 40.51         | 23.95         | 16800.        | 689.0         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>2255.</b>  | <b>345.6</b>  | <b>42.40</b>  | <b>15.28</b>  | <b>19.20</b>  | <b>2.510</b>  |
| Stddev | 14.           | .8            | 9.05          | .46           | 1.05          | .663          |
| %RSD   | .6170         | .2449         | 21.34         | 3.012         | 5.474         | 26.42         |
| #1     | 2240.         | 345.9         | 41.05         | 15.05         | 19.24         | 2.224         |
| #2     | 2258.         | 346.2         | 34.10         | 14.99         | 18.12         | 3.268         |
| #3     | 2267.         | 344.6         | 52.05         | 15.81         | 20.22         | 2.038         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109644-D-3-A@4      Acquired: 3/4/2016 18:36:56      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | -1.872        | -2.432        | 32.39         | 35.12         | .5570         | 2.672         |
| Stddev | 3.120         | 2.207         | .37           | .16           | .4010         | .021          |
| %RSD   | 166.7         | 90.73         | 1.145         | .4466         | 72.00         | .7777         |
| #1     | .7765         | -4.761        | 32.36         | 35.30         | .0954         | 2.648         |
| #2     | -5.312        | -2.161        | 32.03         | 35.06         | .8198         | 2.682         |
| #3     | -1.081        | -.3731        | 32.77         | 35.01         | .7557         | 2.685         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | 4.712         | 6.242         | 314.3         | 609.1         |
| Stddev | .715          | .105          | .7            | 5.2           |
| %RSD   | 15.17         | 1.677         | .2357         | .8611         |
| #1     | 5.508         | 6.227         | 313.6         | 614.3         |
| #2     | 4.124         | 6.146         | 315.1         | 603.8         |
| #3     | 4.505         | 6.354         | 314.2         | 609.1         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |
| Low Limit  |          |          |          |          |

| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
|-----------|---------------|---------------|---------------|
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | 2479.9        | 28146.        | 3761.5        |
| Stddev    | 36.7          | 506.          | 120.5         |
| %RSD      | 1.4798        | 1.7990        | 3.2022        |
| #1        | 2438.6        | 27801.        | 3711.6        |
| #2        | 2508.7        | 27910.        | 3674.0        |
| #3        | 2492.5        | 28727.        | 3898.8        |

Sample Name: LCSSRM 460-353914/2-      Acquired: 3/4/2016 18:48:41      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>37230.</b> | <b>435.6</b>  | <b>181.7</b>  | <b>1513.</b>  | <b>342.0</b>  | <b>31610.</b> |
| Stddev | 80.           | 4.1           | .5            | 2.            | 2.3           | 76.           |
| %RSD   | .2158         | .9467         | .2984         | .1371         | .6678         | .2404         |
| #1     | 37320.        | 432.3         | 181.0         | 1514.         | 344.5         | 31610.        |
| #2     | 37210.        | 440.2         | 181.9         | 1510.         | 341.2         | 31540.        |
| #3     | 37170.        | 434.3         | 182.0         | 1514.         | 340.2         | 31690.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>705.6</b>  | <b>802.7</b>  | <b>865.5</b>  | <b>496.8</b>  | <b>67460.</b> | <b>12340.</b> |
| Stddev | 1.6           | 1.0           | 1.3           | 1.3           | 150.          | 50.           |
| %RSD   | .2243         | .1281         | .1501         | .2581         | .2229         | .4082         |
| #1     | 704.3         | 803.0         | 865.6         | 498.1         | 67520.        | 12400.        |
| #2     | 705.2         | 801.6         | 864.2         | 495.5         | 67290.        | 12320.        |
| #3     | 707.4         | 803.6         | 866.8         | 496.9         | 67570.        | 12310.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>11270.</b> | <b>2068.</b>  | <b>11900.</b> | <b>759.1</b>  | <b>612.0</b>  | <b>264.8</b>  |
| Stddev | 40.           | 7.            | 33.           | .3            | .3            | 1.0           |
| %RSD   | .3574         | .3352         | .2750         | .0440         | .0476         | .3816         |
| #1     | 11250.        | 2074.         | 11940.        | 758.8         | 612.3         | 264.3         |
| #2     | 11240.        | 2060.         | 11900.        | 759.4         | 611.7         | 266.0         |
| #3     | 11310.        | 2070.         | 11870.        | 759.1         | 612.0         | 264.1         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: LCSSRM 460-353914/2-      Acquired: 3/4/2016 18:48:41      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>660.3</b>  | <b>835.8</b>  | <b>470.2</b>  | <b>921.0</b>  | <b>600.8</b>  | <b>786.6</b>  |
| Stddev | 2.4           | 4.2           | .8            | 2.0           | 2.2           | 1.7           |
| %RSD   | .3657         | .5048         | .1667         | .2203         | .3680         | .2146         |
| #1     | 658.7         | 838.4         | 471.0         | 918.7         | 598.2         | 784.7         |
| #2     | 663.1         | 838.1         | 469.4         | 922.6         | 601.9         | 787.9         |
| #3     | 659.2         | 831.0         | 470.1         | 921.6         | 602.2         | 787.3         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>498.8</b>  | <b>435.4</b>  | <b>1791.</b>  | <b>1084.</b>  |
| Stddev | .3            | 2.1           | 3.            | 22.           |
| %RSD   | .0665         | .4861         | .1555         | 2.006         |
| #1     | 498.5         | 437.6         | 1792.         | 1071.         |
| #2     | 498.6         | 435.3         | 1788.         | 1072.         |
| #3     | 499.1         | 433.4         | 1794.         | 1109.         |

|            |          |          |          |      |
|------------|----------|----------|----------|------|
| 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       | <b>2529.7</b> | <b>29254.</b> | <b>3794.3</b> |
| Stddev    | 11.2          | 473.          | 61.7          |
| %RSD      | .44198        | 1.6153        | 1.6270        |
| #1        | 2517.7        | 28714.        | 3723.2        |
| #2        | 2531.6        | 29592.        | 3834.6        |
| #3        | 2539.8        | 29457.        | 3825.0        |

Sample Name: 460-109572-E-9-B@4      Acquired: 3/4/2016 17:35:16      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>83620.</b> | <b>60.23</b>  | <b>-.0567</b> | <b>147.5</b>  | <b>1.514</b>  | <b>1236.</b>  |
| Stddev | 264.          | 1.25          | .6285         | .3            | .153          | 4.            |
| %RSD   | .3154         | 2.073         | 1108.         | .2245         | 10.07         | .2959         |
| #1     | 83510.        | 59.25         | .4349         | 147.3         | 1.510         | 1232.         |
| #2     | 83430.        | 59.82         | .1598         | 147.9         | 1.669         | 1239.         |
| #3     | 83920.        | 61.64         | -.7649        | 147.4         | 1.364         | 1238.         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.166</b> | <b>9.283</b>  | <b>205.6</b>  | <b>44.93</b>  | <b>86350.</b> | <b>5529.</b>  |
| Stddev | .170          | .303          | 1.2           | .62           | 489.          | 44.           |
| %RSD   | 7.827         | 3.267         | .5933         | 1.372         | .5659         | .7979         |
| #1     | -2.062        | 9.524         | 204.2         | 45.37         | 85830.        | 5481.         |
| #2     | -2.074        | 8.943         | 206.4         | 45.20         | 86410.        | 5539.         |
| #3     | -2.361        | 9.383         | 206.1         | 44.22         | 86800.        | 5567.         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>6750.</b>  | <b>253.6</b>  | <b>319.5</b>  | <b>33.39</b>  | <b>48.88</b>  | <b>1.195</b>  |
| Stddev | 49.           | 1.3           | 7.8           | .05           | 1.07          | 1.238         |
| %RSD   | .7277         | .4931         | 2.452         | .1397         | 2.192         | 103.6         |
| #1     | 6696.         | 252.2         | 320.8         | 33.37         | 47.82         | 1.333         |
| #2     | 6763.         | 254.0         | 311.1         | 33.36         | 49.96         | -.1060        |
| #3     | 6792.         | 254.7         | 326.7         | 33.45         | 48.85         | 2.358         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109572-E-9-B@4      Acquired: 3/4/2016 17:35:16      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>3.831</b>  | <b>-9.243</b> | <b>301.8</b>  | <b>68.24</b>  | <b>14.91</b>  | <b>18.11</b>  |
| Stddev | .646          | 1.138         | 2.4           | .24           | .55           | .15           |
| %RSD   | 16.86         | 12.31         | .7933         | .3532         | 3.720         | .8348         |
| #1     | 4.217         | -9.249        | 299.6         | 68.01         | 14.27         | 18.18         |
| #2     | 4.192         | -8.101        | 301.5         | 68.21         | 15.24         | 17.93         |
| #3     | 3.086         | -10.38        | 304.3         | 68.49         | 15.22         | 18.21         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.830</b>  | <b>28.79</b>  | <b>1809.</b>  | <b>1064.</b>  |
| Stddev | .366          | .12           | 4.            | 21.           |
| %RSD   | 7.570         | .4225         | .2059         | 1.943         |
| #1     | 4.502         | 28.68         | 1806.         | 1084.         |
| #2     | 5.224         | 28.77         | 1808.         | 1043.         |
| #3     | 4.764         | 28.92         | 1813.         | 1064.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2388.2</b> | <b>27345.</b> | <b>3579.9</b> |
| Stddev    | 11.3          | 195.          | 55.2          |
| %RSD      | .47202        | .71289        | 1.5422        |
| #1        | 2390.1        | 27539.        | 3633.9        |
| #2        | 2398.4        | 27347.        | 3582.2        |
| #3        | 2376.1        | 27149.        | 3523.5        |

Sample Name: CCVL      Acquired: 3/4/2016 18:59:59      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>225.8</b>  | <b>16.60</b>  | <b>9.753</b>  | <b>212.3</b>  | <b>2.359</b>  | <b>5142.</b>  |
| Stddev | 10.3          | 2.35          | .432          | .4            | .133          | 4.            |
| %RSD   | 4.553         | 14.18         | 4.426         | .1755         | 5.623         | .0688         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 233.2 | 14.52 | 10.06 | 212.3 | 2.491 | 5138. |
| #2 | 230.2 | 19.15 | 9.938 | 211.9 | 2.225 | 5143. |
| #3 | 214.1 | 16.13 | 9.260 | 212.7 | 2.362 | 5144. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4.410</b>  | <b>53.27</b>  | <b>11.12</b>  | <b>22.07</b>  | <b>165.9</b>  | <b>5295.</b>  |
| Stddev | .053          | .19           | .21           | .35           | 7.9           | 41.           |
| %RSD   | 1.206         | .3538         | 1.865         | 1.574         | 4.782         | .7822         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 4.375 | 53.29 | 11.33 | 21.67 | 162.7 | 5250. |
| #2 | 4.384 | 53.45 | 11.10 | 22.29 | 160.1 | 5303. |
| #3 | 4.471 | 53.08 | 10.92 | 22.25 | 174.9 | 5331. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4843.</b>  | <b>16.51</b>  | <b>5188.</b>  | <b>44.24</b>  | <b>10.64</b>  | <b>20.32</b>  |
| Stddev | 13.           | .03           | 10.           | .72           | .28           | 1.09          |
| %RSD   | .2771         | .1987         | .2014         | 1.636         | 2.610         | 5.346         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 4855. | 16.54 | 5199. | 44.04 | 10.89 | 19.98 |
| #2 | 4846. | 16.48 | 5178. | 43.64 | 10.68 | 19.44 |
| #3 | 4829. | 16.51 | 5189. | 45.04 | 10.34 | 21.53 |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCVL      Acquired: 3/4/2016 18:59:59      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 17.80         | 21.98         | 52.76         | 32.11         | 46.18         | 20.48         |
| Stddev | 2.30          | 1.50          | .29           | .19           | 1.02          | .37           |
| %RSD   | 12.91         | 6.824         | .5530         | .5936         | 2.203         | 1.815         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 20.26 | 22.43 | 52.97 | 32.28 | 47.22 | 20.08 |
| #2 | 15.71 | 23.21 | 52.88 | 31.91 | 45.19 | 20.82 |
| #3 | 17.43 | 20.31 | 52.43 | 32.15 | 46.12 | 20.55 |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | 52.58         | 22.38         | 20.95         | F 6.803       |
| Stddev | 1.85          | .23           | .08           | 10.82         |
| %RSD   | 3.518         | 1.019         | .3813         | 159.0         |

|    |       |       |       |        |
|----|-------|-------|-------|--------|
| #1 | 54.71 | 22.14 | 20.94 | -4.414 |
| #2 | 51.37 | 22.60 | 21.04 | 17.17  |
| #3 | 51.66 | 22.40 | 20.88 | 7.649  |

|         |          |          |          |          |
|---------|----------|----------|----------|----------|
| 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       | 2506.7        | 28487.        | 3772.0        |
| Stddev    | 13.0          | 110.          | 52.5          |
| %RSD      | .51801        | .38491        | 1.3922        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2497.2 | 28364. | 3712.2 |
| #2 | 2521.5 | 28525. | 3810.3 |
| #3 | 2501.3 | 28573. | 3793.6 |



Sample Name: 460-109568-E-1-D@4      Acquired: 3/4/2016 19:07:55      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 1491.         | 5.940         | -2298         | 7.144         | .0546         | 10.10         |
| Stddev | 6.            | 1.742         | .5567         | .154          | .2022         | 8.38          |
| %RSD   | .4196         | 29.32         | 242.3         | 2.154         | 370.1         | 82.90         |

|    |       |       |        |       |        |       |
|----|-------|-------|--------|-------|--------|-------|
| #1 | 1489. | 7.946 | .3505  | 7.322 | .0576  | .5534 |
| #2 | 1486. | 5.059 | -.7596 | 7.050 | -.1490 | 13.56 |
| #3 | 1498. | 4.816 | -.2802 | 7.062 | .2554  | 16.20 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | -.0134        | .5038         | 6.837         | -.5972        | 752.4         | 69.20         |
| Stddev | .1284         | .2210         | .168          | .1606         | 1.3           | 34.79         |
| %RSD   | 960.7         | 43.87         | 2.458         | 26.90         | .1723         | 50.28         |

|    |        |       |       |        |       |       |
|----|--------|-------|-------|--------|-------|-------|
| #1 | .0406  | .6263 | 6.682 | -.4280 | 751.9 | 95.63 |
| #2 | -.1599 | .2487 | 7.015 | -.6162 | 753.9 | 29.78 |
| #3 | .0793  | .6365 | 6.813 | -.7476 | 751.5 | 82.18 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 20.58         | 5.521         | 31.24         | .4878         | 2.922         | .8159         |
| Stddev | 1.92          | .099          | 1.77          | .3025         | .309          | .7756         |
| %RSD   | 9.310         | 1.797         | 5.677         | 62.03         | 10.57         | 95.06         |

|    |       |       |       |       |       |        |
|----|-------|-------|-------|-------|-------|--------|
| #1 | 20.67 | 5.628 | 33.28 | .8339 | 2.572 | -.0151 |
| #2 | 22.44 | 5.501 | 30.09 | .3554 | 3.156 | .9423  |
| #3 | 18.62 | 5.433 | 30.34 | .2740 | 3.037 | 1.520  |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109568-E-1-D@4      Acquired: 3/4/2016 19:07:55      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.259</b> | <b>-3.763</b> | <b>5.932</b>  | <b>1.128</b>  | <b>1.054</b>  | <b>.9341</b>  |
| Stddev | .753          | 1.934         | .703          | .090          | .093          | .2592         |
| %RSD   | 33.33         | 51.40         | 11.84         | 7.972         | 8.823         | 27.75         |
| #1     | -3.035        | -5.977        | 5.255         | 1.043         | 1.126         | 1.152         |
| #2     | -1.531        | -2.396        | 6.657         | 1.222         | .9490         | .6476         |
| #3     | -2.211        | -2.917        | 5.884         | 1.118         | 1.088         | 1.002         |

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

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>5.297</b>  | <b>2.153</b>  | <b>136.3</b>  | <b>559.7</b>  |
| Stddev | .971          | .196          | .9            | 13.6          |
| %RSD   | 18.33         | 9.113         | .6693         | 2.422         |
| #1     | 4.728         | 1.926         | 136.0         | 564.1         |
| #2     | 4.746         | 2.272         | 137.3         | 544.5         |
| #3     | 6.419         | 2.260         | 135.5         | 570.5         |

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       | <b>2480.0</b> | <b>28226.</b> | <b>3869.8</b> |
| Stddev    | 11.0          | 148.          | 45.4          |
| %RSD      | .44377        | .52492        | 1.1743        |
| #1        | 2473.5        | 28241.        | 3913.9        |
| #2        | 2473.9        | 28070.        | 3823.1        |
| #3        | 2492.7        | 28365.        | 3872.3        |

Sample Name: 460-109614-F-1-A@4      Acquired: 3/4/2016 17:50:46      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>5283.</b>  | <b>83.42</b>  | <b>-3350</b>  | <b>344.1</b>  | <b>1.427</b>  | <b>6212.</b>  |
| Stddev | 37.           | .88           | .4937         | 1.1           | .032          | 62.           |
| %RSD   | .7078         | 1.056         | 147.4         | .3138         | 2.264         | .9937         |
| #1     | 5266.         | 83.55         | -.0361        | 343.1         | 1.438         | 6146.         |
| #2     | 5258.         | 84.23         | -.0641        | 343.8         | 1.452         | 6223.         |
| #3     | 5326.         | 82.48         | -.9048        | 345.3         | 1.390         | 6268.         |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.6995</b>  | <b>12.77</b>  | <b>41.07</b>  | <b>165.5</b>  | <b>60130.</b> | <b>876.3</b>  |
| Stddev | .0830         | .68           | .77           | .8            | 332.          | 10.9          |
| %RSD   | 11.86         | 5.360         | 1.886         | .5078         | .5520         | 1.247         |
| #1     | .7662         | 12.55         | 40.79         | 164.5         | 59820.        | 887.9         |
| #2     | .6066         | 13.53         | 40.48         | 166.1         | 60080.        | 874.6         |
| #3     | .7258         | 12.22         | 41.95         | 165.8         | 60480.        | 866.2         |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>967.0</b>  | <b>156.3</b>  | <b>557.9</b>  | <b>30.12</b>  | <b>110.3</b>  | <b>4.567</b>  |
| Stddev | 11.6          | 1.3           | 10.4          | .34           | .4            | 1.601         |
| %RSD   | 1.202         | .8498         | 1.862         | 1.126         | .3609         | 35.07         |
| #1     | 953.5         | 155.0         | 569.8         | 29.88         | 110.7         | 6.076         |
| #2     | 974.3         | 156.4         | 550.6         | 29.97         | 110.3         | 4.738         |
| #3     | 973.0         | 157.6         | 553.2         | 30.50         | 109.9         | 2.887         |

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

Sample Name: 460-109614-F-1-A@4      Acquired: 3/4/2016 17:50:46      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.422</b>  | <b>-4.853</b> | <b>72.25</b>  | <b>558.4</b>  | <b>4.595</b>  | <b>16.78</b>  |
| Stddev | 2.276         | .982          | .98           | 2.5           | .295          | .25           |
| %RSD   | 51.46         | 20.24         | 1.354         | .4548         | 6.427         | 1.517         |
| #1     | 5.974         | -5.294        | 71.12         | 555.6         | 4.882         | 17.02         |
| #2     | 1.810         | -3.727        | 72.83         | 559.1         | 4.292         | 16.82         |
| #3     | 5.483         | -5.538        | 72.79         | 560.5         | 4.612         | 16.51         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>8.362</b>  | <b>95.22</b>  | <b>469.3</b>  | <b>610.2</b>  |
| Stddev | .445          | .48           | 1.6           | 14.1          |
| %RSD   | 5.316         | .5076         | .3495         | 2.313         |
| #1     | 8.064         | 94.95         | 467.5         | 605.4         |
| #2     | 8.873         | 94.93         | 469.7         | 599.1         |
| #3     | 8.149         | 95.77         | 470.8         | 626.0         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |
| Low Limit  |          |          |          |          |

| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
|-----------|---------------|---------------|---------------|
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2441.8</b> | <b>27542.</b> | <b>3649.8</b> |
| Stddev    | 10.8          | 238.          | 29.1          |
| %RSD      | .44218        | .86439        | .79632        |
| #1        | 2438.7        | 27715.        | 3669.4        |
| #2        | 2453.8        | 27640.        | 3663.6        |
| #3        | 2432.9        | 27270.        | 3616.4        |

Sample Name: 460-109568-E-1-E MS      Acquired: 3/4/2016 19:15:53      Type: Unk

Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000

User: admin      Custom ID1:      Custom ID2:      Custom ID3:

Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 5368.         | 926.4         | 23.00         | 1018.         | 26.88         | 9958.         |
| Stddev | 19.           | 8.1           | .25           | 6.            | .23           | 35.           |
| %RSD   | .3450         | .8739         | 1.074         | .5891         | .8594         | .3477         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 5356. | 918.6 | 23.15 | 1024. | 27.15 | 9982. |
| #2 | 5358. | 934.7 | 23.13 | 1017. | 26.77 | 9918. |
| #3 | 5389. | 925.9 | 22.71 | 1012. | 26.73 | 9974. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 25.37         | 254.0         | 110.6         | 120.2         | 1368.         | 9750.         |
| Stddev | .02           | .9            | .6            | 1.1           | 20.           | 16.           |
| %RSD   | .0680         | .3609         | .5216         | .8947         | 1.442         | .1598         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 25.36 | 254.3 | 110.6 | 119.2 | 1349. | 9768. |
| #2 | 25.37 | 254.7 | 109.9 | 120.0 | 1366. | 9739. |
| #3 | 25.39 | 253.0 | 111.1 | 121.3 | 1388. | 9744. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 9336.         | 263.8         | 9986.         | 264.4         | 234.3         | 229.1         |
| Stddev | 66.           | .3            | 38.           | .7            | 1.2           | 1.2           |
| %RSD   | .7106         | .1308         | .3764         | .2775         | .5328         | .5350         |

|    |       |       |        |       |       |       |
|----|-------|-------|--------|-------|-------|-------|
| #1 | 9324. | 263.5 | 10020. | 264.9 | 235.3 | 228.0 |
| #2 | 9277. | 263.8 | 9994.  | 264.8 | 234.8 | 230.5 |
| #3 | 9408. | 264.2 | 9945.  | 263.6 | 232.9 | 228.9 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109568-E-1-E MS      Acquired: 3/4/2016 19:15:53      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>901.0</b>  | <b>973.3</b>  | <b>262.7</b>  | <b>258.0</b>  | <b>228.0</b>  | <b>247.8</b>  |
| Stddev | 10.7          | 1.9           | 1.6           | .7            | 2.0           | .7            |
| %RSD   | 1.187         | .1977         | .5969         | .2724         | .8666         | .2674         |
| #1     | 892.0         | 972.7         | 261.5         | 257.5         | 227.2         | 247.7         |
| #2     | 912.8         | 971.8         | 262.2         | 258.8         | 230.3         | 248.5         |
| #3     | 898.3         | 975.5         | 264.5         | 257.7         | 226.6         | 247.1         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>258.2</b>  | <b>266.5</b>  | <b>338.4</b>  | <b>1461.</b>  |
| Stddev | 2.1           | 1.3           | 1.5           | 28.           |
| %RSD   | .8265         | .4966         | .4554         | 1.942         |
| #1     | 258.8         | 267.9         | 337.5         | 1428.         |
| #2     | 259.9         | 266.4         | 337.5         | 1475.         |
| #3     | 255.8         | 265.2         | 340.2         | 1479.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2470.4</b> | <b>28250.</b> | <b>3859.8</b> |
| Stddev    | 17.7          | 416.          | 40.5          |
| %RSD      | .71713        | 1.4731        | 1.0491        |
| #1        | 2451.4        | 27780.        | 3814.8        |
| #2        | 2473.2        | 28573.        | 3893.4        |
| #3        | 2486.5        | 28396.        | 3871.1        |

Sample Name: 460-109614-E-2-A@4      Acquired: 3/4/2016 17:54:38      Type: Unk

Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000

User: admin      Custom ID1:      Custom ID2:      Custom ID3:

Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>23110.</b> | <b>104.4</b>  | <b>.7206</b>  | <b>728.3</b>  | <b>3.510</b>  | <b>17500.</b> |
| Stddev | 88.           | 2.0           | .2488         | 1.7           | .082          | 275.          |
| %RSD   | .3819         | 1.904         | 34.52         | .2362         | 2.328         | 1.569         |

|    |        |       |       |       |       |        |
|----|--------|-------|-------|-------|-------|--------|
| #1 | 23210. | 104.5 | .8303 | 726.4 | 3.591 | 17720. |
| #2 | 23080. | 102.4 | .8957 | 728.9 | 3.428 | 17600. |
| #3 | 23040. | 106.3 | .4359 | 729.7 | 3.513 | 17200. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.6996</b> | <b>35.65</b>  | <b>1364.</b>  | <b>266.0</b>  | <b>94800.</b> | <b>3014.</b>  |
| Stddev | .2910         | .33           | 15.           | 1.6           | 1029.         | 10.           |
| %RSD   | 41.60         | .9197         | 1.132         | .5855         | 1.085         | .3462         |

|    |        |       |       |       |        |       |
|----|--------|-------|-------|-------|--------|-------|
| #1 | -.9260 | 35.53 | 1376. | 265.7 | 95600. | 3002. |
| #2 | -.8013 | 35.39 | 1369. | 264.6 | 95170. | 3020. |
| #3 | -.3714 | 36.02 | 1346. | 267.7 | 93640. | 3019. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>5257.</b>  | <b>597.5</b>  | <b>1073.</b>  | <b>111.3</b>  | <b>833.2</b>  | <b>10.08</b>  |
| Stddev | 78.           | 5.4           | 11.           | .2            | .2            | 1.18          |
| %RSD   | 1.486         | .9020         | .9783         | .1565         | .0238         | 11.67         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 5330. | 601.3 | 1077. | 111.5 | 833.4 | 11.30 |
| #2 | 5265. | 599.8 | 1081. | 111.4 | 833.0 | 10.00 |
| #3 | 5175. | 591.3 | 1061. | 111.1 | 833.2 | 8.947 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109614-E-2-A@4      Acquired: 3/4/2016 17:54:38      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>9.741</b>  | <b>-7.753</b> | <b>210.6</b>  | <b>530.9</b>  | <b>9.704</b>  | <b>16.77</b>  |
| Stddev | 2.610         | 2.607         | .5            | 6.6           | .273          | .32           |
| %RSD   | 26.79         | 33.63         | .2439         | 1.246         | 2.816         | 1.928         |
| #1     | 8.203         | -4.897        | 210.1         | 537.5         | 9.966         | 17.09         |
| #2     | 12.75         | -8.355        | 210.7         | 531.0         | 9.726         | 16.44         |
| #3     | 8.266         | -10.01        | 211.1         | 524.2         | 9.421         | 16.79         |

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

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>45.02</b>  | <b>270.2</b>  | <b>1447.</b>  | <b>742.2</b>  |
| Stddev | 2.02          | 1.3           | 4.            | 31.1          |
| %RSD   | 4.493         | .4711         | .2650         | 4.194         |
| #1     | 46.85         | 271.3         | 1451.         | 774.9         |
| #2     | 42.85         | 268.8         | 1449.         | 712.9         |
| #3     | 45.36         | 270.4         | 1443.         | 738.8         |

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       | <b>2440.9</b> | <b>27468.</b> | <b>3608.4</b> |
| Stddev    | 71.6          | 1056.         | 162.6         |
| %RSD      | 2.9314        | 3.8436        | 4.5046        |
| #1        | 2368.1        | 26684.        | 3495.6        |
| #2        | 2443.6        | 27052.        | 3534.9        |
| #3        | 2511.1        | 28668.        | 3794.7        |



Sample Name: 460-109542-E-22-A@4      Acquired: 3/4/2016 19:31:02      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |                |
|--------|---------------|---------------|---------------|---------------|---------------|----------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181         |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106}  |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)       |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb            |
| Avg    | <b>39250.</b> | <b>41.40</b>  | <b>.0349</b>  | <b>1444.</b>  | <b>4.266</b>  | <b>169900.</b> |
| Stddev | 179.          | 1.58          | .2203         | 4.            | .073          | 298.           |
| %RSD   | .4567         | 3.823         | 631.0         | .2872         | 1.714         | .1752          |

|    |        |       |        |       |       |         |
|----|--------|-------|--------|-------|-------|---------|
| #1 | 39390. | 42.98 | .0090  | 1439. | 4.226 | 170200. |
| #2 | 39050. | 39.82 | .2670  | 1446. | 4.351 | 169600. |
| #3 | 39320. | 41.39 | -.1713 | 1447. | 4.222 | 170000. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |                |               |
|--------|---------------|---------------|---------------|---------------|----------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714         | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124}  | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)       | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb            | ppb           |
| Avg    | <b>-1.408</b> | <b>26.79</b>  | <b>226.4</b>  | <b>60.46</b>  | <b>118900.</b> | <b>12040.</b> |
| Stddev | .168          | .46           | .9            | .80           | 151.           | 26.           |
| %RSD   | 11.93         | 1.722         | .3836         | 1.316         | .1267          | .2186         |

|    |        |       |       |       |         |        |
|----|--------|-------|-------|-------|---------|--------|
| #1 | -1.598 | 26.55 | 225.6 | 59.58 | 119100. | 12050. |
| #2 | -1.345 | 26.49 | 226.3 | 61.12 | 118800. | 12060. |
| #3 | -1.280 | 27.32 | 227.3 | 60.69 | 118900. | 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    | <b>86680.</b> | <b>1081.</b>  | <b>765.3</b>  | <b>52.82</b>  | <b>133.0</b>  | <b>-.9539</b> |
| Stddev | 61.           | 2.            | 13.6          | .46           | 1.0           | .4760         |
| %RSD   | .0702         | .2168         | 1.770         | .8756         | .7817         | 49.90         |

|    |        |       |       |       |       |        |
|----|--------|-------|-------|-------|-------|--------|
| #1 | 86720. | 1084. | 754.8 | 52.31 | 132.5 | -.5250 |
| #2 | 86610. | 1080. | 760.4 | 52.92 | 134.2 | -1.466 |
| #3 | 86710. | 1079. | 780.6 | 53.22 | 132.4 | -.8708 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109542-E-22-A@4      Acquired: 3/4/2016 19:31:02      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.607</b>  | <b>-3.665</b> | <b>379.5</b>  | <b>844.8</b>  | <b>47.02</b>  | <b>2.459</b>  |
| Stddev | 2.385         | 1.056         | .3            | 5.7           | .65           | .170          |
| %RSD   | 51.77         | 28.81         | .0765         | .6764         | 1.372         | 6.915         |
| #1     | 2.097         | -3.011        | 379.7         | 838.8         | 46.74         | 2.266         |
| #2     | 4.880         | -3.102        | 379.5         | 850.2         | 47.76         | 2.527         |
| #3     | 6.845         | -4.883        | 379.1         | 845.5         | 46.57         | 2.585         |

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

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>5.760</b>  | <b>373.9</b>  | <b>920.3</b>  | <b>1230.</b>  |
| Stddev | .427          | .8            | .6            | 29.           |
| %RSD   | 7.417         | .2006         | .0689         | 2.394         |
| #1     | 6.240         | 373.1         | 920.8         | 1227.         |
| #2     | 5.618         | 373.9         | 919.6         | 1261.         |
| #3     | 5.422         | 374.6         | 920.6         | 1202.         |

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       | <b>2542.7</b> | <b>29525.</b> | <b>4055.9</b> |
| Stddev    | 23.2          | 53.           | 53.7          |
| %RSD      | .91069        | .17928        | 1.3245        |
| #1        | 2555.1        | 29574.        | 4039.5        |
| #2        | 2515.9        | 29469.        | 4116.0        |
| #3        | 2556.9        | 29532.        | 4012.4        |

Sample Name: CCV      Acquired: 3/4/2016 18:02:13      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |                |               |               |               |               |                |
|--------|----------------|---------------|---------------|---------------|---------------|----------------|
| Elem   | Al3961         | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181         |
| Line   | 396.152 { 85}  | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106}  |
| IS Ref | (Y_3710)       | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)       |
| Units  | ppb            | ppb           | ppb           | ppb           | ppb           | ppb            |
| Avg    | <b>130300.</b> | <b>2447.</b>  | <b>1220.</b>  | <b>10380.</b> | <b>1081.</b>  | <b>128200.</b> |
| Stddev | 253.           | 12.           | 5.            | 24.           | 5.            | 269.           |
| %RSD   | .1938          | .4879         | .3765         | .2287         | .4235         | .2097          |

|    |         |       |       |        |       |         |
|----|---------|-------|-------|--------|-------|---------|
| #1 | 130600. | 2447. | 1216. | 10400. | 1086. | 128000. |
| #2 | 130200. | 2435. | 1225. | 10390. | 1079. | 128500. |
| #3 | 130100. | 2459. | 1218. | 10350. | 1077. | 128000. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>1295.</b>  | <b>2560.</b>  | <b>4923.</b>  | <b>12700.</b> | <b>100200.</b> | <b>53260.</b> |
| Stddev | 3.            | 2.            | 16.           | 17.           | 324.           | 222.          |
| %RSD   | .1974         | .0856         | .3313         | .1339         | .3231          | .4172         |

|    |       |       |       |        |         |        |
|----|-------|-------|-------|--------|---------|--------|
| #1 | 1298. | 2563. | 4904. | 12700. | 99910.  | 53470. |
| #2 | 1293. | 2558. | 4933. | 12720. | 100600. | 53280. |
| #3 | 1295. | 2560. | 4932. | 12690. | 100200. | 53030. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>121200.</b> | <b>5211.</b>  | <b>129300.</b> | <b>2624.</b>  | <b>7459.</b>  | <b>1018.</b>  |
| Stddev | 403.           | 19.           | 536.           | 7.            | 18.           | 3.            |
| %RSD   | .3327          | .3608         | .4145          | .2582         | .2472         | .2714         |

|    |         |       |         |       |       |       |
|----|---------|-------|---------|-------|-------|-------|
| #1 | 120800. | 5192. | 130000. | 2632. | 7447. | 1020. |
| #2 | 121500. | 5230. | 129000. | 2619. | 7450. | 1015. |
| #3 | 121400. | 5211. | 129100. | 2621. | 7481. | 1019. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCV      Acquired: 3/4/2016 18:02:13      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2472.</b>  | <b>2539.</b>  | <b>2559.</b>  | <b>2561.</b>  | <b>981.8</b>  | <b>2584.</b>  |
| Stddev | 23.           | 6.            | 7.            | 5.            | 5.5           | 1.            |
| %RSD   | .9278         | .2492         | .2831         | .2029         | .5591         | .0499         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 2473. | 2539. | 2555. | 2562. | 982.1 | 2585. |
| #2 | 2448. | 2533. | 2568. | 2556. | 976.3 | 2585. |
| #3 | 2494. | 2546. | 2555. | 2566. | 987.2 | 2582. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>1044.</b>  | <b>5389.</b>  | <b>10100.</b> | <b>10090.</b> |
| Stddev | 2.            | 26.           | 26.           | 75.           |
| %RSD   | .1739         | .4754         | .2566         | .7423         |

|    |       |       |        |        |
|----|-------|-------|--------|--------|
| #1 | 1042. | 5414. | 10070. | 10090. |
| #2 | 1045. | 5390. | 10120. | 10020. |
| #3 | 1045. | 5363. | 10110. | 10170. |

|         |          |          |          |      |
|---------|----------|----------|----------|------|
| 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       | <b>2380.5</b> | <b>27867.</b> | <b>3762.0</b> |
| Stddev    | 6.4           | 189.          | 26.5          |
| %RSD      | .26697        | .67717        | .70429        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2377.2 | 28082. | 3742.2 |
| #2 | 2387.8 | 27728. | 3751.7 |
| #3 | 2376.5 | 27790. | 3792.1 |

Sample Name: CCB      Acquired: 3/4/2016 18:05:48      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.305</b> | <b>.4418</b>  | <b>-.4517</b> | <b>.2256</b>  | <b>.1033</b>  | <b>-42.53</b> |
| Stddev | 11.86         | 1.563         | .0747         | .0975         | .0714         | 3.81          |
| %RSD   | 514.6         | 353.9         | 16.54         | 43.23         | 69.11         | 8.956         |
| #1     | 11.03         | 1.533         | -.4504        | .3345         | .1821         | -39.13        |
| #2     | -6.260        | 1.142         | -.5271        | .1960         | .0428         | -41.82        |
| #3     | -11.68        | -1.349        | -.3777        | .1463         | .0851         | -46.64        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>-.0579</b> | <b>.4349</b>  | <b>.7955</b>  | <b>-1.167</b> | <b>19.05</b>  | <b>20.00</b>  |
| Stddev | .0639         | .0803         | .6981         | .335          | 3.88          | 6.93          |
| %RSD   | 110.4         | 18.47         | 87.75         | 28.66         | 20.39         | 34.65         |
| #1     | -.1129        | .4552         | -.0011        | -1.527        | 21.00         | 22.12         |
| #2     | .0122         | .3464         | 1.300         | -1.109        | 14.58         | 12.26         |
| #3     | -.0730        | .5032         | 1.088         | -.8660        | 21.57         | 25.63         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4.150</b>  | <b>.3209</b>  | <b>3.269</b>  | <b>-.6745</b> | <b>.1223</b>  | <b>.9679</b>  |
| Stddev | 3.679         | .2428         | 12.41         | .3549         | .9340         | 1.423         |
| %RSD   | 88.66         | 75.65         | 379.8         | 52.61         | 763.6         | 147.1         |
| #1     | 7.858         | .5995         | 11.94         | -.6745        | -.2380        | 2.474         |
| #2     | 4.090         | .2087         | 8.820         | -1.029        | 1.183         | .7854         |
| #3     | .5009         | .1546         | -10.95        | -.3196        | -.5778        | -.3554        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: CCB      Acquired: 3/4/2016 18:05:48      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.656</b>  | <b>1.060</b>  | <b>.5306</b>  | <b>.2403</b>  | <b>.9040</b>  | <b>1.040</b>  |
| Stddev | 3.155         | 1.715         | .2982         | .2696         | .1707         | .274          |
| %RSD   | 190.6         | 161.7         | 56.20         | 112.2         | 18.88         | 26.32         |
| #1     | -1.495        | 1.095         | .6609         | .4429         | .9633         | 1.260         |
| #2     | 1.647         | 2.758         | .1895         | -.0657        | 1.037         | 1.128         |
| #3     | 4.815         | -.6710        | .7414         | .3437         | .7116         | .7335         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.213</b>  | <b>.2872</b>  | <b>.8385</b>  | <b>5.096</b>  |
| Stddev | .200          | .1328         | .2178         | 6.532         |
| %RSD   | 16.45         | 46.25         | 25.98         | 128.2         |
| #1     | 1.119         | .4117         | .9977         | 1.919         |
| #2     | 1.077         | .1474         | .9274         | .7603         |
| #3     | 1.442         | .3026         | .5902         | 12.61         |

|            |          |          |          |      |
|------------|----------|----------|----------|------|
| 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       | <b>2458.0</b> | <b>28041.</b> | <b>3794.8</b> |
| Stddev    | 17.2          | 503.          | 18.0          |
| %RSD      | .69958        | 1.7956        | .47315        |
| #1        | 2473.6        | 28394.        | 3793.9        |
| #2        | 2460.8        | 28264.        | 3813.2        |
| #3        | 2439.6        | 27464.        | 3777.3        |

Sample Name: 460-109614-E-5-A@4      Acquired: 3/4/2016 18:17:33      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>8581.</b>  | <b>93.17</b>  | <b>.1881</b>  | <b>777.0</b>  | <b>3.264</b>  | <b>6752.</b>  |
| Stddev | 34.           | 3.02          | .6668         | 2.5           | .019          | 42.           |
| %RSD   | .3964         | 3.244         | 354.6         | .3212         | .5828         | .6173         |
| #1     | 8579.         | 90.04         | .0201         | 776.1         | 3.244         | 6705.         |
| #2     | 8549.         | 93.38         | .9228         | 779.8         | 3.267         | 6769.         |
| #3     | 8617.         | 96.07         | -.3787        | 775.1         | 3.281         | 6783.         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.251</b> | <b>30.73</b>  | <b>49.25</b>  | <b>127.6</b>  | <b>83090.</b> | <b>1123.</b>  |
| Stddev | .129          | .62           | .48           | .3            | 359.          | 40.           |
| %RSD   | 5.742         | 2.025         | .9723         | .2683         | .4323         | 3.532         |
| #1     | -2.389        | 31.30         | 48.98         | 127.4         | 82690.        | 1145.         |
| #2     | -2.133        | 30.82         | 49.81         | 128.0         | 83390.        | 1077.         |
| #3     | -2.232        | 30.06         | 48.97         | 127.3         | 83200.        | 1146.         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>693.7</b>  | <b>61.29</b>  | <b>592.5</b>  | <b>61.35</b>  | <b>159.4</b>  | <b>2.807</b>  |
| Stddev | .7            | .19           | 4.2           | .64           | 1.7           | 1.147         |
| %RSD   | .1042         | .3033         | .7102         | 1.047         | 1.066         | 40.84         |
| #1     | 693.5         | 61.10         | 593.1         | 61.16         | 157.7         | 3.711         |
| #2     | 693.1         | 61.30         | 588.0         | 60.82         | 161.1         | 1.518         |
| #3     | 694.5         | 61.47         | 596.3         | 62.06         | 159.5         | 3.194         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109614-E-5-A@4      Acquired: 3/4/2016 18:17:33      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>12.94</b>  | <b>-4.965</b> | <b>77.19</b>  | <b>51.61</b>  | <b>2.414</b>  | <b>33.83</b>  |
| Stddev | .44           | 1.951         | .63           | .14           | .499          | .41           |
| %RSD   | 3.400         | 39.30         | .8207         | .2777         | 20.67         | 1.214         |
| #1     | 12.44         | -4.700        | 76.61         | 51.65         | 2.906         | 33.39         |
| #2     | 13.27         | -7.036        | 77.10         | 51.73         | 2.429         | 34.19         |
| #3     | 13.12         | -3.160        | 77.87         | 51.45         | 1.908         | 33.92         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>6.896</b>  | <b>139.3</b>  | <b>865.0</b>  | <b>569.0</b>  |
| Stddev | .441          | .4            | 2.2           | 18.7          |
| %RSD   | 6.396         | .2767         | .2579         | 3.284         |
| #1     | 6.773         | 139.8         | 862.5         | 560.7         |
| #2     | 6.530         | 139.2         | 866.8         | 555.8         |
| #3     | 7.386         | 139.0         | 865.6         | 590.3         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2491.5</b> | <b>28753.</b> | <b>3932.8</b> |
| Stddev    | 31.1          | 185.          | 37.0          |
| %RSD      | 1.2490        | .64179        | .93976        |
| #1        | 2526.7        | 28929.        | 3952.5        |
| #2        | 2479.8        | 28768.        | 3955.7        |
| #3        | 2467.9        | 28561.        | 3890.1        |



Sample Name: CCB      Acquired: 3/4/2016 19:46:13      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>17.49</b>  | <b>2.567</b>  | <b>-.0571</b> | <b>.7008</b>  | <b>.1690</b>  | <b>-32.83</b> |
| Stddev | 24.05         | .961          | .5260         | .0967         | .1982         | 4.60          |
| %RSD   | 137.5         | 37.45         | 921.5         | 13.80         | 117.3         | 14.02         |

|    |        |       |        |       |        |        |
|----|--------|-------|--------|-------|--------|--------|
| #1 | 33.70  | 1.707 | .4384  | .7564 | .2439  | -27.51 |
| #2 | 28.92  | 2.389 | -.0006 | .7569 | .3188  | -35.51 |
| #3 | -10.14 | 3.605 | -.6090 | .5891 | -.0557 | -35.46 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.1593</b>  | <b>.5343</b>  | <b>.2646</b>  | <b>-.7116</b> | <b>25.63</b>  | <b>1.925</b>  |
| Stddev | .0634         | .3444         | .7682         | .2212         | 13.35         | 43.21         |
| %RSD   | 39.83         | 64.47         | 290.4         | 31.08         | 52.09         | 2245.         |

|    |       |       |        |        |       |        |
|----|-------|-------|--------|--------|-------|--------|
| #1 | .1401 | .9243 | -.1213 | -.4643 | 34.96 | 15.16  |
| #2 | .1077 | .4069 | 1.149  | -.8906 | 31.61 | 36.96  |
| #3 | .2301 | .2717 | -.2342 | -.7799 | 10.34 | -46.35 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>7.989</b>  | <b>.4837</b>  | <b>22.21</b>  | <b>-.6808</b> | <b>.4107</b>  | <b>-.8050</b> |
| Stddev | 4.954         | .1211         | 6.43          | .3305         | .5873         | .9407         |
| %RSD   | 62.01         | 25.03         | 28.96         | 48.56         | 143.0         | 116.9         |

|    |       |       |       |        |        |        |
|----|-------|-------|-------|--------|--------|--------|
| #1 | 13.52 | .5972 | 29.62 | -.8671 | -.2595 | -1.613 |
| #2 | 3.950 | .4977 | 18.89 | -.8761 | .8357  | -1.030 |
| #3 | 6.499 | .3563 | 18.12 | -.2991 | .6559  | .2279  |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: CCB      Acquired: 3/4/2016 19:46:13      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.4316</b>  | <b>-.2388</b> | <b>.5335</b>  | <b>.3758</b>  | <b>.9567</b>  | <b>.8479</b>  |
| Stddev | 2.380         | 1.726         | .1181         | .0400         | .6777         | .5290         |
| %RSD   | 551.5         | 722.9         | 22.14         | 10.66         | 70.84         | 62.39         |
| #1     | -2.316        | -2.200        | .6514         | .4208         | 1.408         | 1.324         |
| #2     | 1.877         | .4315         | .4152         | .3625         | 1.284         | .9411         |
| #3     | 1.734         | 1.052         | .5337         | .3440         | .1775         | .2785         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.005</b>  | <b>.8169</b>  | <b>1.085</b>  | <b>9.654</b>  |
| Stddev | 1.012         | .2814         | .146          | 19.61         |
| %RSD   | 100.7         | 34.45         | 13.51         | 203.1         |
| #1     | .7534         | 1.133         | 1.066         | -11.87        |
| #2     | .1430         | .5926         | 1.239         | 14.32         |
| #3     | 2.120         | .7253         | .9481         | 26.51         |

|            |          |          |          |      |
|------------|----------|----------|----------|------|
| 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       | <b>2487.0</b> | <b>28256.</b> | <b>3833.3</b> |
| Stddev    | 29.6          | 268.          | 36.8          |
| %RSD      | 1.1917        | .94706        | .95973        |
| #1        | 2453.7        | 27947.        | 3856.2        |
| #2        | 2510.3        | 28407.        | 3852.8        |
| #3        | 2497.0        | 28414.        | 3790.8        |

Sample Name: 460-109614-F-7-A@4      Acquired: 3/4/2016 18:25:15      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |                |
|--------|---------------|---------------|---------------|---------------|---------------|----------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181         |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106}  |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)       |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb            |
| Avg    | <b>29450.</b> | <b>92.12</b>  | <b>.9902</b>  | <b>1581.</b>  | <b>2.681</b>  | <b>121200.</b> |
| Stddev | 165.          | .68           | .3512         | 4.            | .242          | 543.           |
| %RSD   | .5594         | .7333         | 35.46         | .2473         | 9.032         | .4477          |

|    |        |       |       |       |       |         |
|----|--------|-------|-------|-------|-------|---------|
| #1 | 29360. | 92.48 | .6865 | 1583. | 2.651 | 121700. |
| #2 | 29640. | 92.55 | .9093 | 1583. | 2.455 | 120600. |
| #3 | 29340. | 91.34 | 1.375 | 1577. | 2.937 | 121400. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>49.62</b>  | <b>28.17</b>  | <b>122.7</b>  | <b>289.5</b>  | <b>88940.</b> | <b>3554.</b>  |
| Stddev | .13           | .18           | .8            | .9            | 510.          | 34.           |
| %RSD   | .2618         | .6379         | .6258         | .2950         | .5740         | .9689         |

|    |       |       |       |       |        |       |
|----|-------|-------|-------|-------|--------|-------|
| #1 | 49.75 | 28.37 | 123.1 | 289.8 | 89440. | 3570. |
| #2 | 49.49 | 28.02 | 121.8 | 290.2 | 88420. | 3576. |
| #3 | 49.61 | 28.12 | 123.2 | 288.6 | 88950. | 3514. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>12600.</b> | <b>880.1</b>  | <b>1515.</b>  | <b>92.67</b>  | <b>719.0</b>  | <b>2.922</b>  |
| Stddev | 54.           | 5.5           | 6.            | .58           | 1.1           | 1.017         |
| %RSD   | .4246         | .6193         | .3844         | .6207         | .1540         | 34.82         |

|    |        |       |       |       |       |       |
|----|--------|-------|-------|-------|-------|-------|
| #1 | 12660. | 885.6 | 1510. | 92.23 | 719.3 | 3.142 |
| #2 | 12550. | 874.7 | 1521. | 93.32 | 717.7 | 3.813 |
| #3 | 12590. | 880.1 | 1515. | 92.45 | 719.9 | 1.813 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109614-F-7-A@4      Acquired: 3/4/2016 18:25:15      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>3.455</b>  | <b>-5.324</b> | <b>149.7</b>  | <b>1245.</b>  | <b>15.52</b>  | <b>15.93</b>  |
| Stddev | 1.453         | 1.380         | .7            | 7.            | .79           | .15           |
| %RSD   | 42.06         | 25.92         | .4522         | .5513         | 5.082         | .9224         |
| #1     | 3.450         | -6.576        | 150.4         | 1253.         | 16.38         | 15.77         |
| #2     | 2.005         | -5.551        | 149.6         | 1244.         | 14.82         | 15.97         |
| #3     | 4.911         | -3.844        | 149.1         | 1239.         | 15.36         | 16.05         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>43.89</b>  | <b>652.1</b>  | <b>1329.</b>  | <b>921.5</b>  |
| Stddev | 1.05          | 3.9           | 4.            | 13.4          |
| %RSD   | 2.395         | .6026         | .2718         | 1.455         |
| #1     | 42.84         | 649.8         | 1333.         | 936.0         |
| #2     | 43.89         | 656.6         | 1326.         | 919.1         |
| #3     | 44.94         | 649.8         | 1328.         | 909.5         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2439.0</b> | <b>28267.</b> | <b>3802.8</b> |
| Stddev    | 34.3          | 540.          | 26.8          |
| %RSD      | 1.4075        | 1.9119        | .70563        |
| #1        | 2402.8        | 27675.        | 3803.3        |
| #2        | 2443.2        | 28733.        | 3775.7        |
| #3        | 2471.0        | 28394.        | 3829.4        |

Sample Name: 460-109542-E-26-A@4      Acquired: 3/4/2016 19:58:04      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>53010.</b> | <b>13.79</b>  | <b>-.0377</b> | <b>239.4</b>  | <b>3.520</b>  | <b>3604.</b>  |
| Stddev | 277.          | 2.85          | .4360         | .1            | .083          | 53.           |
| %RSD   | .5220         | 20.67         | 1157.         | .0355         | 2.369         | 1.468         |
| #1     | 52720.        | 12.18         | -.3735        | 239.4         | 3.568         | 3553.         |
| #2     | 53030.        | 12.11         | .4551         | 239.4         | 3.568         | 3600.         |
| #3     | 53270.        | 17.08         | -.1946        | 239.5         | 3.423         | 3658.         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-1.888</b> | <b>85.32</b>  | <b>122.9</b>  | <b>88.45</b>  | <b>81830.</b> | <b>3592.</b>  |
| Stddev | .034          | .33           | 1.0           | .51           | 715.          | 40.           |
| %RSD   | 1.773         | .3901         | .8454         | .5813         | .8737         | 1.106         |
| #1     | -1.916        | 84.95         | 122.2         | 88.31         | 81210.        | 3598.         |
| #2     | -1.896        | 85.41         | 122.4         | 88.03         | 81680.        | 3629.         |
| #3     | -1.851        | 85.59         | 124.1         | 89.02         | 82610.        | 3550.         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>11960.</b> | <b>934.4</b>  | <b>441.6</b>  | <b>96.65</b>  | <b>36.67</b>  | <b>.3641</b>  |
| Stddev | 113.          | 7.2           | 5.9           | .80           | 1.41          | 1.367         |
| %RSD   | .9452         | .7753         | 1.337         | .8271         | 3.855         | 375.4         |
| #1     | 11860.        | 928.6         | 440.6         | 97.21         | 35.77         | -1.082        |
| #2     | 11940.        | 932.1         | 447.9         | 95.74         | 38.30         | .5407         |
| #3     | 12080.        | 942.5         | 436.2         | 97.01         | 35.94         | 1.634         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109542-E-26-A@4      Acquired: 3/4/2016 19:58:04      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.014</b>  | <b>-5.184</b> | <b>138.1</b>  | <b>197.4</b>  | <b>4.751</b>  | <b>4.358</b>  |
| Stddev | 1.434         | 1.922         | .7            | 2.4           | .163          | .145          |
| %RSD   | 141.4         | 37.07         | .4942         | 1.202         | 3.426         | 3.318         |
| #1     | -0.0015       | -7.351        | 137.5         | 194.9         | 4.615         | 4.471         |
| #2     | 2.654         | -4.517        | 137.9         | 197.5         | 4.931         | 4.195         |
| #3     | .3900         | -3.685        | 138.8         | 199.7         | 4.706         | 4.408         |

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

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.963</b>  | <b>90.62</b>  | <b>1283.</b>  | <b>710.3</b>  |
| Stddev | .963          | .31           | 6.            | 24.4          |
| %RSD   | 49.05         | .3410         | .4659         | 3.434         |
| #1     | 1.522         | 90.59         | 1279.         | 706.6         |
| #2     | 1.300         | 90.95         | 1281.         | 736.3         |
| #3     | 3.068         | 90.34         | 1290.         | 687.9         |

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       | <b>2599.9</b> | <b>29689.</b> | <b>4042.1</b> |
| Stddev    | 24.3          | 301.          | 95.0          |
| %RSD      | .93485        | 1.0143        | 2.3502        |
| #1        | 2624.0        | 29942.        | 4135.1        |
| #2        | 2600.4        | 29769.        | 4045.9        |
| #3        | 2575.4        | 29356.        | 3945.3        |

Sample Name: 460-109644-D-1-A@4      Acquired: 3/4/2016 18:29:02      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>11700.</b> | <b>4.596</b>  | <b>-.6195</b> | <b>55.50</b>  | <b>.5761</b>  | <b>1118.</b>  |
| Stddev | 66.           | 2.109         | .7800         | .30           | .0926         | 4.            |
| %RSD   | .5639         | 45.90         | 125.9         | .5471         | 16.08         | .3528         |

|    |        |       |        |       |       |       |
|----|--------|-------|--------|-------|-------|-------|
| #1 | 11640. | 3.909 | -1.361 | 55.56 | .6813 | 1122. |
| #2 | 11770. | 2.915 | -.6924 | 55.16 | .5402 | 1114. |
| #3 | 11690. | 6.963 | .1944  | 55.76 | .5068 | 1117. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.0389</b> | <b>5.040</b>  | <b>17.37</b>  | <b>12.87</b>  | <b>14670.</b> | <b>691.2</b>  |
| Stddev | .1543         | .212          | .52           | .30           | 27.           | 37.3          |
| %RSD   | 396.4         | 4.207         | 3.016         | 2.312         | .1817         | 5.396         |

|    |        |       |       |       |        |       |
|----|--------|-------|-------|-------|--------|-------|
| #1 | -.0394 | 5.283 | 16.98 | 12.56 | 14640. | 727.4 |
| #2 | .1157  | 4.889 | 17.97 | 12.91 | 14680. | 652.9 |
| #3 | -.1930 | 4.950 | 17.18 | 13.15 | 14690. | 693.3 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>945.2</b>  | <b>424.4</b>  | <b>39.29</b>  | <b>11.17</b>  | <b>13.91</b>  | <b>.5148</b>  |
| Stddev | 6.6           | 1.1           | 7.00          | .11           | .75           | 1.554         |
| %RSD   | .6979         | .2497         | 17.82         | .9717         | 5.366         | 301.8         |

|    |       |       |       |       |       |        |
|----|-------|-------|-------|-------|-------|--------|
| #1 | 947.7 | 423.2 | 31.37 | 11.05 | 14.71 | 2.304  |
| #2 | 950.3 | 425.3 | 41.84 | 11.20 | 13.24 | -.2686 |
| #3 | 937.8 | 424.6 | 44.66 | 11.26 | 13.79 | -.4911 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109644-D-1-A@4      Acquired: 3/4/2016 18:29:02      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.2240</b> | <b>-2.562</b> | <b>23.57</b>  | <b>28.17</b>  | <b>.5021</b>  | <b>1.053</b>  |
| Stddev | 3.220         | 2.074         | .32           | .13           | .6571         | .230          |
| %RSD   | 1437.         | 80.94         | 1.367         | .4713         | 130.9         | 21.84         |

|    |        |        |       |       |        |       |
|----|--------|--------|-------|-------|--------|-------|
| #1 | 3.195  | -2.282 | 23.51 | 28.32 | 1.188  | .9991 |
| #2 | -.6689 | -.6426 | 23.28 | 28.07 | .4405  | .8542 |
| #3 | -3.198 | -4.762 | 23.91 | 28.12 | -.1220 | 1.305 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>5.183</b>  | <b>8.434</b>  | <b>352.5</b>  | <b>704.2</b>  |
| Stddev | .815          | .047          | 1.4           | 31.0          |
| %RSD   | 15.73         | .5519         | .3830         | 4.400         |

|    |       |       |       |       |
|----|-------|-------|-------|-------|
| #1 | 5.960 | 8.442 | 351.3 | 697.9 |
| #2 | 5.255 | 8.476 | 352.2 | 676.8 |
| #3 | 4.334 | 8.384 | 353.9 | 737.9 |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2427.2</b> | <b>27550.</b> | <b>3723.5</b> |
| Stddev    | 24.4          | 55.           | 37.6          |
| %RSD      | 1.0070        | .19928        | 1.0096        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2407.0 | 27555. | 3749.8 |
| #2 | 2454.4 | 27492. | 3680.4 |
| #3 | 2420.2 | 27602. | 3740.2 |



Sample Name: 460-109644-D-2-A@4      Acquired: 3/4/2016 18:32:58      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|            |               |               |               |               |               |               |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem       | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line       | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref     | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units      | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg        | 27390.        | 28.13         | .4985         | 205.1         | 1.510         | F 430000.     |
| Stddev     | 174.          | 2.34          | .8465         | 1.2           | .104          | 4612.         |
| %RSD       | .6333         | 8.300         | 169.8         | .5783         | 6.910         | 1.073         |
| #1         | 27220.        | 30.58         | -.3786        | 203.8         | 1.630         | 426100.       |
| #2         | 27400.        | 27.87         | .5636         | 205.9         | 1.447         | 428700.       |
| #3         | 27560.        | 25.94         | 1.311         | 205.7         | 1.452         | 435100.       |
| 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        | 10.61         | 19.75         | 497.6         | 396.3         | 46940.        | 2249.         |
| Stddev     | .09           | .36           | 1.3           | 1.3           | 145.          | 35.           |
| %RSD       | .8053         | 1.827         | .2525         | .3176         | .3094         | 1.547         |
| #1         | 10.71         | 19.34         | 496.2         | 394.8         | 46790.        | 2231.         |
| #2         | 10.56         | 20.01         | 498.1         | 397.0         | 46950.        | 2289.         |
| #3         | 10.57         | 19.90         | 498.6         | 397.0         | 47080.        | 2227.         |
| Check ?    | Chk Pass      | Chk Pass      | Chk Pass      | Chk Pass      | Chk Pass      | Chk Pass      |
| High Limit |               |               |               |               |               |               |
| Low Limit  |               |               |               |               |               |               |

|            |               |               |               |               |               |               |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem       | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line       | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref     | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units      | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg        | 239200.       | 1106.         | 422.0         | 526.2         | 643.0         | 1.831         |
| Stddev     | 414.          | 7.            | 12.4          | 1.2           | 2.5           | 2.071         |
| %RSD       | .1732         | .6531         | 2.938         | .2280         | .3964         | 113.1         |
| #1         | 238800.       | 1098.         | 433.1         | 524.9         | 645.9         | 3.417         |
| #2         | 239100.       | 1108.         | 408.6         | 527.1         | 641.8         | 2.588         |
| #3         | 239600.       | 1111.         | 424.3         | 526.6         | 641.2         | -.5122        |
| Check ?    | Chk Pass      | Chk Pass      | Chk Pass      | Chk Pass      | Chk Pass      | Chk Pass      |
| High Limit |               |               |               |               |               |               |
| Low Limit  |               |               |               |               |               |               |

Sample Name: 460-109644-D-2-A@4      Acquired: 3/4/2016 18:32:58      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {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        | -4.611        | 93.24         | 564.3         | 19.16         | 2.362         |
| Stddev | 3.862         | 5.007         | .87           | 1.4           | .19           | .101          |
| %RSD   | 275.2         | 1086.         | .9342         | .2435         | .9658         | 4.293         |

|    |        |        |       |       |       |       |
|----|--------|--------|-------|-------|-------|-------|
| #1 | -1.516 | -5.469 | 94.11 | 562.7 | 18.95 | 2.479 |
| #2 | -5.208 | -5.425 | 93.24 | 564.8 | 19.23 | 2.313 |
| #3 | 2.513  | 4.588  | 92.36 | 565.2 | 19.29 | 2.295 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | 19.16         | 215.9         | 733.0         | 1003.         |
| Stddev | 2.35          | 1.3           | 2.7           | 6.            |
| %RSD   | 12.26         | .5868         | .3707         | .6312         |

|    |       |       |       |       |
|----|-------|-------|-------|-------|
| #1 | 16.83 | 214.7 | 729.9 | 1004. |
| #2 | 19.12 | 216.0 | 734.3 | 1010. |
| #3 | 21.53 | 217.2 | 734.9 | 996.9 |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | 2332.4        | 27330.        | 3647.7        |
| Stddev    | 8.3           | 108.          | 49.1          |
| %RSD      | .35641        | .39573        | 1.3454        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2323.6 | 27400. | 3691.7 |
| #2 | 2333.3 | 27384. | 3656.8 |
| #3 | 2340.2 | 27205. | 3594.8 |

Sample Name: 460-109568-E-3-B@4      Acquired: 3/4/2016 20:17:38      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1401.</b>  | <b>-.4080</b> | <b>-.7556</b> | <b>6.435</b>  | <b>.0432</b>  | <b>13.24</b>  |
| Stddev | 19.           | .8007         | .1532         | .106          | .0082         | 5.66          |
| %RSD   | 1.351         | 196.3         | 20.28         | 1.644         | 18.90         | 42.73         |
| #1     | 1407.         | .1919         | -.5786        | 6.443         | .0473         | 19.77         |
| #2     | 1380.         | -.0986        | -.8459        | 6.326         | .0486         | 9.993         |
| #3     | 1417.         | -1.317        | -.8422        | 6.537         | .0338         | 9.954         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.0913</b> | <b>.4513</b>  | <b>17.58</b>  | <b>.3168</b>  | <b>1747.</b>  | <b>56.20</b>  |
| Stddev | .0930         | .4145         | .27           | .5914         | 9.            | 14.68         |
| %RSD   | 101.8         | 91.85         | 1.555         | 186.7         | .5193         | 26.12         |
| #1     | -.0816        | .1516         | 17.29         | .0715         | 1745.         | 45.74         |
| #2     | -.1887        | .2779         | 17.62         | -.1124        | 1757.         | 49.88         |
| #3     | -.0035        | .9244         | 17.83         | .9915         | 1739.         | 72.98         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>24.20</b>  | <b>13.77</b>  | <b>46.91</b>  | <b>1.116</b>  | <b>6.533</b>  | <b>2.040</b>  |
| Stddev | 3.00          | .19           | 7.57          | .678          | .322          | .763          |
| %RSD   | 12.39         | 1.389         | 16.15         | 60.72         | 4.921         | 37.44         |
| #1     | 24.74         | 13.93         | 38.65         | 1.293         | 6.187         | 2.636         |
| #2     | 26.89         | 13.81         | 48.55         | 1.688         | 6.589         | 1.179         |
| #3     | 20.97         | 13.56         | 53.53         | .3674         | 6.823         | 2.303         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109568-E-3-B@4      Acquired: 3/4/2016 20:17:38      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-8189</b>  | <b>-3.657</b> | <b>7.222</b>  | <b>1.851</b>  | <b>.8503</b>  | <b>2.664</b>  |
| Stddev | 2.740         | 1.326         | .594          | .203          | .3534         | .157          |
| %RSD   | 334.7         | 36.26         | 8.227         | 10.99         | 41.56         | 5.897         |
| #1     | 2.047         | -4.006        | 7.696         | 1.798         | 1.195         | 2.585         |
| #2     | -1.090        | -4.772        | 6.556         | 2.076         | .8668         | 2.845         |
| #3     | -3.414        | -2.191        | 7.415         | 1.680         | .4889         | 2.563         |

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

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.200</b>  | <b>1.769</b>  | <b>292.5</b>  | <b>522.1</b>  |
| Stddev | .556          | .189          | .4            | 23.2          |
| %RSD   | 13.25         | 10.70         | .1251         | 4.447         |
| #1     | 3.579         | 1.878         | 292.1         | 501.9         |
| #2     | 4.653         | 1.551         | 292.8         | 517.0         |
| #3     | 4.368         | 1.878         | 292.6         | 547.5         |

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       | <b>2433.4</b> | <b>27986.</b> | <b>3757.7</b> |
| Stddev    | 21.4          | 526.          | 46.6          |
| %RSD      | .88052        | 1.8798        | 1.2409        |
| #1        | 2445.0        | 28581.        | 3804.6        |
| #2        | 2446.5        | 27797.        | 3757.1        |
| #3        | 2408.7        | 27582.        | 3711.3        |

Sample Name: 460-109568-E-6-B@4      Acquired: 3/4/2016 20:29:41      Type: Unk

Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000

User: admin      Custom ID1:      Custom ID2:      Custom ID3:

Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>841.8</b>  | <b>-.1492</b> | <b>.0244</b>  | <b>2.789</b>  | <b>.0313</b>  | <b>-28.15</b> |
| Stddev | 2.3           | .9262         | .3981         | .062          | .0790         | 5.76          |
| %RSD   | .2710         | 620.6         | 1629.         | 2.215         | 252.7         | 20.46         |

|    |       |        |        |       |        |        |
|----|-------|--------|--------|-------|--------|--------|
| #1 | 844.3 | .8578  | .2601  | 2.858 | .0563  | -22.21 |
| #2 | 841.1 | -.3410 | .2483  | 2.768 | .0947  | -33.71 |
| #3 | 839.9 | -.9645 | -.4352 | 2.740 | -.0572 | -28.53 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.0243</b>  | <b>.1182</b>  | <b>3.943</b>  | <b>-2.618</b> | <b>430.6</b>  | <b>17.81</b>  |
| Stddev | .0689         | .1219         | .677          | .577          | 14.1          | 32.60         |
| %RSD   | 283.7         | 103.2         | 17.17         | 22.04         | 3.285         | 183.1         |

|    |        |        |       |        |       |        |
|----|--------|--------|-------|--------|-------|--------|
| #1 | .0072  | .1689  | 4.261 | -3.131 | 416.3 | 31.67  |
| #2 | -.0344 | -.0209 | 3.166 | -2.730 | 430.9 | 41.18  |
| #3 | .1002  | .2065  | 4.403 | -1.993 | 444.6 | -19.43 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>10.84</b>  | <b>3.628</b>  | <b>50.52</b>  | <b>.2486</b>  | <b>2.817</b>  | <b>-.0593</b> |
| Stddev | 1.64          | .088          | 5.44          | .8441         | 1.910         | .5645         |
| %RSD   | 15.15         | 2.427         | 10.76         | 339.6         | 67.81         | 952.6         |

|    |       |       |       |        |       |        |
|----|-------|-------|-------|--------|-------|--------|
| #1 | 9.991 | 3.594 | 56.26 | .0293  | 4.050 | .2056  |
| #2 | 9.788 | 3.562 | 49.84 | -.4642 | 3.785 | -.7075 |
| #3 | 12.73 | 3.728 | 45.45 | 1.181  | .6167 | .3242  |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109568-E-6-B@4      Acquired: 3/4/2016 20:29:41      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.521</b> | <b>-1.740</b> | <b>1.911</b>  | <b>.6884</b>  | <b>.2370</b>  | <b>.4213</b>  |
| Stddev | 1.338         | 1.800         | .396          | .0352         | .4036         | .1896         |
| %RSD   | 53.07         | 103.4         | 20.74         | 5.118         | 170.3         | 45.00         |
| #1     | -2.606        | -3.776        | 1.845         | .7098         | .5847         | .2109         |
| #2     | -3.814        | -1.082        | 2.337         | .7076         | -.2056        | .4741         |
| #3     | -1.142        | -.3620        | 1.552         | .6477         | .3318         | .5789         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.160</b>  | <b>1.077</b>  | <b>180.1</b>  | <b>344.4</b>  |
| Stddev | .875          | .088          | 1.0           | 22.6          |
| %RSD   | 21.02         | 8.219         | .5559         | 6.553         |
| #1     | 4.958         | 1.080         | 179.1         | 354.6         |
| #2     | 4.296         | 1.164         | 180.3         | 360.0         |
| #3     | 3.225         | .9871         | 181.1         | 318.5         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2509.9</b> | <b>28524.</b> | <b>3775.6</b> |
| Stddev    | 25.4          | 177.          | 51.1          |
| %RSD      | 1.0134        | .62160        | 1.3535        |
| #1        | 2489.1        | 28728.        | 3822.0        |
| #2        | 2502.3        | 28404.        | 3783.8        |
| #3        | 2538.2        | 28441.        | 3720.8        |

Sample Name: CCV      Acquired: 3/4/2016 20:33:43      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |                |               |               |               |               |                |
|--------|----------------|---------------|---------------|---------------|---------------|----------------|
| Elem   | Al3961         | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181         |
| Line   | 396.152 { 85}  | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106}  |
| IS Ref | (Y_3710)       | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)       |
| Units  | ppb            | ppb           | ppb           | ppb           | ppb           | ppb            |
| Avg    | <b>128700.</b> | <b>2399.</b>  | <b>1214.</b>  | <b>10210.</b> | <b>1060.</b>  | <b>127000.</b> |
| Stddev | 16.            | 3.            | 2.            | 19.           | 3.            | 64.            |
| %RSD   | .0122          | .1425         | .1810         | .1871         | .2946         | .0504          |

|    |         |       |       |        |       |         |
|----|---------|-------|-------|--------|-------|---------|
| #1 | 128700. | 2396. | 1215. | 10230. | 1064. | 126900. |
| #2 | 128700. | 2403. | 1215. | 10200. | 1059. | 127000. |
| #3 | 128700. | 2399. | 1211. | 10190. | 1058. | 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    | <b>1270.</b>  | <b>2514.</b>  | <b>4899.</b>  | <b>12550.</b> | <b>99520.</b> | <b>52500.</b> |
| Stddev | 2.            | 4.            | 8.            | 57.           | 172.          | 99.           |
| %RSD   | .1831         | .1526         | .1692         | .4540         | .1727         | .1884         |

|    |       |       |       |        |        |        |
|----|-------|-------|-------|--------|--------|--------|
| #1 | 1273. | 2516. | 4890. | 12540. | 99320. | 52560. |
| #2 | 1270. | 2518. | 4901. | 12610. | 99650. | 52560. |
| #3 | 1268. | 2510. | 4906. | 12490. | 99570. | 52390. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>120600.</b> | <b>5142.</b>  | <b>128000.</b> | <b>2568.</b>  | <b>7353.</b>  | <b>990.9</b>  |
| Stddev | 250.           | 9.            | 125.           | 8.            | 11.           | 1.5           |
| %RSD   | .2075          | .1665         | .0974          | .3227         | .1428         | .1507         |

|    |         |       |         |       |       |       |
|----|---------|-------|---------|-------|-------|-------|
| #1 | 120400. | 5138. | 127900. | 2576. | 7341. | 992.6 |
| #2 | 120800. | 5152. | 128200. | 2568. | 7357. | 989.9 |
| #3 | 120800. | 5137. | 128000. | 2560. | 7360. | 990.2 |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCV      Acquired: 3/4/2016 20:33:43      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2398.</b>  | <b>2495.</b>  | <b>2534.</b>  | <b>2520.</b>  | <b>963.1</b>  | <b>2536.</b>  |
| Stddev | 2.            | 4.            | 6.            | 3.            | 1.5           | 2.            |
| %RSD   | .0894         | .1407         | .2173         | .1116         | .1588         | .0646         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 2396. | 2498. | 2534. | 2518. | 961.6 | 2537. |
| #2 | 2400. | 2491. | 2540. | 2523. | 962.9 | 2534. |
| #3 | 2398. | 2496. | 2529. | 2519. | 964.7 | 2537. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>1023.</b>  | <b>5286.</b>  | <b>10000.</b> | <b>9953.</b>  |
| Stddev | 3.            | 7.            | 12.5          | 41.           |
| %RSD   | .2750         | .1358         | .1247         | .4153         |

|    |       |       |        |       |
|----|-------|-------|--------|-------|
| #1 | 1026. | 5290. | 9991.  | 9988. |
| #2 | 1020. | 5291. | 10010. | 9964. |
| #3 | 1022. | 5278. | 9994.  | 9907. |

|         |          |          |          |      |
|---------|----------|----------|----------|------|
| 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       | <b>2432.4</b> | <b>28069.</b> | <b>3813.5</b> |
| Stddev    | 2.4           | 113.          | 13.5          |
| %RSD      | .10053        | .40282        | .35436        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2434.1 | 28157. | 3824.7 |
| #2 | 2429.6 | 28109. | 3817.3 |
| #3 | 2433.5 | 27942. | 3798.5 |



Sample Name: CCVL      Acquired: 3/4/2016 20:41:24      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>234.5</b>  | <b>16.08</b>  | <b>9.315</b>  | <b>211.7</b>  | <b>2.212</b>  | <b>5051.</b>  |
| Stddev | 14.7          | .83           | .368          | .5            | .034          | 18.           |
| %RSD   | 6.281         | 5.165         | 3.947         | .2357         | 1.518         | .3516         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 251.4 | 15.41 | 8.927 | 211.9 | 2.208 | 5031. |
| #2 | 224.0 | 15.81 | 9.360 | 212.1 | 2.181 | 5064. |
| #3 | 228.3 | 17.01 | 9.659 | 211.2 | 2.248 | 5058. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4.377</b>  | <b>53.45</b>  | <b>10.64</b>  | <b>21.22</b>  | <b>150.4</b>  | <b>5255.</b>  |
| Stddev | .212          | .39           | .21           | .55           | 1.9           | 28.           |
| %RSD   | 4.842         | .7250         | 1.999         | 2.583         | 1.258         | .5357         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 4.266 | 53.89 | 10.69 | 20.80 | 150.0 | 5236. |
| #2 | 4.621 | 53.29 | 10.41 | 21.04 | 152.4 | 5288. |
| #3 | 4.243 | 53.17 | 10.82 | 21.84 | 148.7 | 5242. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4734.</b>  | <b>16.70</b>  | <b>5188.</b>  | <b>43.51</b>  | <b>11.04</b>  | <b>20.59</b>  |
| Stddev | 18.           | .09           | 13.           | .25           | .45           | .20           |
| %RSD   | .3758         | .5180         | .2539         | .5720         | 4.040         | .9797         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 4714. | 16.61 | 5190. | 43.23 | 11.50 | 20.82 |
| #2 | 4749. | 16.70 | 5200. | 43.62 | 11.03 | 20.50 |
| #3 | 4739. | 16.79 | 5174. | 43.70 | 10.60 | 20.44 |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCVL      Acquired: 3/4/2016 20:41:24      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 17.62         | 21.22         | 53.00         | 31.87         | 46.46         | 20.51         |
| Stddev | 1.20          | 2.69          | .41           | .25           | .58           | .40           |
| %RSD   | 6.786         | 12.68         | .7714         | .7836         | 1.248         | 1.958         |
| #1     | 16.33         | 20.34         | 53.17         | 31.77         | 47.11         | 20.48         |
| #2     | 17.85         | 19.09         | 53.30         | 32.15         | 46.28         | 20.93         |
| #3     | 18.69         | 24.24         | 52.54         | 31.68         | 45.99         | 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    | 52.02         | 22.23         | 20.91         | F 11.29       |
| Stddev | 1.44          | .14           | .25           | 8.37          |
| %RSD   | 2.766         | .6295         | 1.209         | 74.10         |
| #1     | 53.67         | 22.35         | 20.68         | 9.096         |
| #2     | 51.01         | 22.08         | 21.18         | 4.241         |
| #3     | 51.38         | 22.27         | 20.87         | 20.54         |

|         |          |          |          |          |
|---------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Fail |
| Value   |          |          |          | 200.0    |
| Range   |          |          |          | -30.50%  |

|           |               |               |               |
|-----------|---------------|---------------|---------------|
| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | 2481.9        | 28573.        | 3675.9        |
| Stddev    | 18.3          | 125.          | 46.9          |
| %RSD      | .73815        | .43646        | 1.2772        |
| #1        | 2500.5        | 28680.        | 3647.3        |
| #2        | 2481.4        | 28436.        | 3650.2        |
| #3        | 2463.9        | 28605.        | 3730.0        |

Sample Name: 460-109568-E-7-A@4      Acquired: 3/4/2016 20:45:22      Type: Unk

Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000

User: admin      Custom ID1:      Custom ID2:      Custom ID3:

Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>822.6</b>  | <b>2.524</b>  | <b>-2.807</b> | <b>4.914</b>  | <b>.0098</b>  | <b>-29.00</b> |
| Stddev | 3.8           | 2.849         | .0903         | .092          | .1340         | 6.44          |
| %RSD   | .4592         | 112.9         | 32.17         | 1.873         | 1363.         | 22.22         |

|    |       |       |        |       |        |        |
|----|-------|-------|--------|-------|--------|--------|
| #1 | 821.8 | 5.786 | -.3112 | 4.832 | -.0907 | -31.86 |
| #2 | 819.3 | 1.264 | -.3517 | 5.013 | .1620  | -33.52 |
| #3 | 826.7 | .5224 | -.1791 | 4.896 | -.0418 | -21.62 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.0014</b> | <b>.3591</b>  | <b>6.266</b>  | <b>-3.282</b> | <b>809.9</b>  | <b>-45.80</b> |
| Stddev | .0489         | .1443         | .522          | .404          | 1.7           | 18.72         |
| %RSD   | 3613.         | 40.18         | 8.333         | 12.32         | .2094         | 40.88         |

|    |        |       |       |        |       |        |
|----|--------|-------|-------|--------|-------|--------|
| #1 | .0176  | .5256 | 5.703 | -3.049 | 809.2 | -24.18 |
| #2 | -.0569 | .2815 | 6.734 | -3.048 | 811.8 | -56.80 |
| #3 | .0352  | .2702 | 6.361 | -3.749 | 808.6 | -56.40 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>20.84</b>  | <b>9.628</b>  | <b>34.55</b>  | <b>-1.656</b> | <b>4.894</b>  | <b>1.336</b>  |
| Stddev | 1.74          | .142          | 5.54          | .3672         | 1.652         | .241          |
| %RSD   | 8.336         | 1.475         | 16.02         | 221.7         | 33.75         | 18.03         |

|    |       |       |       |        |       |       |
|----|-------|-------|-------|--------|-------|-------|
| #1 | 20.04 | 9.595 | 34.60 | -.4908 | 4.897 | 1.595 |
| #2 | 22.84 | 9.783 | 28.99 | -.2387 | 6.544 | 1.120 |
| #3 | 19.65 | 9.505 | 40.06 | .2327  | 3.241 | 1.292 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109568-E-7-A@4      Acquired: 3/4/2016 20:45:22      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-3.034</b> | <b>-4.086</b> | <b>5.152</b>  | <b>1.213</b>  | <b>.9850</b>  | <b>.5655</b>  |
| Stddev | 2.544         | 2.457         | .264          | .389          | .3303         | .0520         |
| %RSD   | 83.85         | 60.11         | 5.116         | 32.09         | 33.53         | 9.201         |
| #1     | -3.663        | -3.374        | 5.171         | .9947         | .8117         | .5068         |
| #2     | -.2341        | -6.820        | 5.406         | 1.662         | .7775         | .6060         |
| #3     | -5.203        | -2.065        | 4.880         | .9819         | 1.366         | .5837         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>3.756</b>  | <b>1.599</b>  | <b>302.7</b>  | <b>315.3</b>  |
| Stddev | 1.628         | .201          | .9            | 20.1          |
| %RSD   | 43.34         | 12.59         | .2973         | 6.359         |
| #1     | 4.933         | 1.373         | 303.4         | 337.7         |
| #2     | 1.898         | 1.665         | 302.9         | 309.2         |
| #3     | 4.438         | 1.759         | 301.7         | 299.0         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |
| Low Limit  |          |          |          |          |

|           |               |               |               |
|-----------|---------------|---------------|---------------|
| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2408.2</b> | <b>27560.</b> | <b>3433.8</b> |
| Stddev    | 106.5         | 1469.         | 102.2         |
| %RSD      | 4.4231        | 5.3285        | 2.9776        |
| #1        | 2337.9        | 26620.        | 3369.9        |
| #2        | 2356.0        | 26808.        | 3379.7        |
| #3        | 2530.8        | 29252.        | 3551.7        |

Sample Name: 460-109572-E-2-B@4      Acquired: 3/4/2016 20:53:25      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1010.</b>  | <b>1.212</b>  | <b>-.9513</b> | <b>7.216</b>  | <b>-.1397</b> | <b>5.816</b>  |
| Stddev | 17.           | .428          | .1897         | .129          | .1902         | 7.390         |
| %RSD   | 1.638         | 35.34         | 19.94         | 1.783         | 136.1         | 127.1         |
| #1     | 991.2         | 1.114         | -.7422        | 7.088         | .0036         | .1192         |
| #2     | 1021.         | .8419         | -.9996        | 7.346         | -.0673        | 3.163         |
| #3     | 1019.         | 1.682         | -1.112        | 7.214         | -.3554        | 14.17         |

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    | <b>-.0768</b> | <b>.3249</b>  | <b>3.889</b>  | <b>-1.100</b> | <b>620.5</b>  | <b>-10.04</b> |
| Stddev | .1353         | .4713         | .088          | .319          | 4.8           | 47.45         |
| %RSD   | 176.2         | 145.1         | 2.253         | 29.04         | .7734         | 472.4         |
| #1     | -.2196        | .8615         | 3.841         | -1.428        | 615.4         | 18.60         |
| #2     | -.0604        | .1350         | 3.836         | -1.081        | 624.9         | -64.82        |
| #3     | .0495         | -.0219        | 3.990         | -.7900        | 621.2         | 16.08         |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>13.51</b>  | <b>7.042</b>  | <b>120.4</b>  | <b>.4965</b>  | <b>4.676</b>  | <b>.2311</b>  |
| Stddev | 5.03          | .076          | 13.3          | .7833         | 1.861         | .9204         |
| %RSD   | 37.23         | 1.085         | 11.07         | 157.7         | 39.79         | 398.2         |
| #1     | 12.32         | 7.030         | 134.4         | 1.021         | 4.359         | .3053         |
| #2     | 9.179         | 7.124         | 107.9         | -.4038        | 6.675         | 1.112         |
| #3     | 19.03         | 6.972         | 119.0         | .8721         | 2.995         | -.7241        |

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

Sample Name: 460-109572-E-2-B@4      Acquired: 3/4/2016 20:53:25      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196          | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|----------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472}  | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)       | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb            | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-0.9208</b> | <b>-3.023</b> | <b>3.021</b>  | <b>1.051</b>  | <b>.6092</b>  | <b>.8095</b>  |
| Stddev | 1.526          | .705          | .122          | .214          | .2462         | .2881         |
| %RSD   | 165.7          | 23.33         | 4.052         | 20.39         | 40.42         | 35.59         |
| #1     | -2.150         | -3.433        | 2.912         | 1.078         | .7756         | .7098         |
| #2     | -1.399         | -3.426        | 3.153         | .8252         | .3263         | .5845         |
| #3     | .7869          | -2.208        | 2.997         | 1.252         | .7256         | 1.134         |

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

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>5.042</b>  | <b>2.064</b>  | <b>252.7</b>  | <b>420.9</b>  |
| Stddev | .940          | .061          | 2.0           | 17.0          |
| %RSD   | 18.65         | 2.980         | .7915         | 4.026         |
| #1     | 6.124         | 2.123         | 250.6         | 428.2         |
| #2     | 4.578         | 2.068         | 254.5         | 401.6         |
| #3     | 4.424         | 2.001         | 252.9         | 433.0         |

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

| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
|-----------|---------------|---------------|---------------|
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2442.6</b> | <b>27080.</b> | <b>3607.7</b> |
| Stddev    | 22.9          | 338.          | 45.1          |
| %RSD      | .93766        | 1.2470        | 1.2506        |
| #1        | 2416.2        | 27320.        | 3595.8        |
| #2        | 2455.2        | 26694.        | 3569.8        |
| #3        | 2456.5        | 27227.        | 3657.6        |

Sample Name: 460-109572-E-3-B@4      Acquired: 3/4/2016 20:57:27      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>68630.</b> | <b>38.94</b>  | <b>-.3159</b> | <b>118.4</b>  | <b>1.377</b>  | <b>2538.</b>  |
| Stddev | 258.          | 1.62          | .8134         | .6            | .139          | 30.           |
| %RSD   | .3758         | 4.156         | 257.5         | .5402         | 10.07         | 1.168         |

|    |        |       |        |       |       |       |
|----|--------|-------|--------|-------|-------|-------|
| #1 | 68840. | 39.35 | -.6205 | 118.8 | 1.217 | 2566. |
| #2 | 68720. | 40.32 | -.9330 | 118.7 | 1.448 | 2541. |
| #3 | 68340. | 37.16 | .6059  | 117.6 | 1.466 | 2507. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.289</b> | <b>7.477</b>  | <b>108.7</b>  | <b>52.84</b>  | <b>76170.</b> | <b>4808.</b>  |
| Stddev | .222          | .149          | .8            | .83           | 830.          | 57.           |
| %RSD   | 9.708         | 1.994         | .7595         | 1.567         | 1.090         | 1.181         |

|    |        |       |       |       |        |       |
|----|--------|-------|-------|-------|--------|-------|
| #1 | -2.374 | 7.305 | 109.1 | 53.70 | 76840. | 4867. |
| #2 | -2.457 | 7.554 | 109.2 | 52.05 | 76420. | 4803. |
| #3 | -2.037 | 7.573 | 107.7 | 52.76 | 75240. | 4754. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>6398.</b>  | <b>232.0</b>  | <b>208.4</b>  | <b>27.43</b>  | <b>34.89</b>  | <b>.7361</b>  |
| Stddev | 84.           | .8            | 15.7          | .64           | .35           | .9567         |
| %RSD   | 1.307         | .3604         | 7.526         | 2.321         | 1.003         | 130.0         |

|    |       |       |       |       |       |        |
|----|-------|-------|-------|-------|-------|--------|
| #1 | 6486. | 232.5 | 207.4 | 26.81 | 35.04 | -.3673 |
| #2 | 6390. | 232.4 | 193.2 | 27.40 | 35.14 | 1.334  |
| #3 | 6319. | 231.0 | 224.5 | 28.08 | 34.49 | 1.242  |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109572-E-3-B@4      Acquired: 3/4/2016 20:57:27      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.611</b>  | <b>-4.628</b> | <b>158.3</b>  | <b>62.96</b>  | <b>11.31</b>  | <b>37.08</b>  |
| Stddev | 2.206         | 2.655         | .6            | 1.07          | .81           | .25           |
| %RSD   | 136.9         | 57.36         | .3985         | 1.696         | 7.125         | .6697         |
| #1     | 1.604         | -1.592        | 158.9         | 63.10         | 12.08         | 37.20         |
| #2     | 3.821         | -6.512        | 157.6         | 63.94         | 10.47         | 37.24         |
| #3     | -.5912        | -5.782        | 158.4         | 61.82         | 11.38         | 36.79         |

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

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.140</b>  | <b>24.46</b>  | <b>1544.</b>  | <b>988.0</b>  |
| Stddev | .820          | .13           | 5.            | 7.0           |
| %RSD   | 19.80         | .5248         | .3389         | .7113         |
| #1     | 4.938         | 24.59         | 1548.         | 994.2         |
| #2     | 3.301         | 24.44         | 1545.         | 989.5         |
| #3     | 4.179         | 24.34         | 1538.         | 980.4         |

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       | <b>2523.4</b> | <b>28190.</b> | <b>3784.0</b> |
| Stddev    | 35.9          | 646.          | 89.3          |
| %RSD      | 1.4222        | 2.2903        | 2.3589        |
| #1        | 2515.3        | 27794.        | 3749.6        |
| #2        | 2492.3        | 27840.        | 3717.0        |
| #3        | 2562.7        | 28935.        | 3885.3        |



Sample Name: CCB      Acquired: 3/4/2016 21:05:04      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.816</b>  | <b>1.605</b>  | <b>.0151</b>  | <b>.2388</b>  | <b>.0151</b>  | <b>-46.77</b> |
| Stddev | 1.588         | 1.109         | .3041         | .0495         | .1164         | 8.59          |
| %RSD   | 32.97         | 69.05         | 2010.         | 20.74         | 769.4         | 18.37         |
| #1     | 6.135         | 2.814         | -.2922        | .2953         | .1490         | -55.12        |
| #2     | 3.054         | .6356         | .0218         | .2032         | -.0420        | -37.96        |
| #3     | 5.261         | 1.367         | .3158         | .2178         | -.0617        | -47.22        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.1696</b>  | <b>.4405</b>  | <b>1.003</b>  | <b>-1.463</b> | <b>11.17</b>  | <b>14.70</b>  |
| Stddev | .0698         | .2792         | .647          | .388          | 6.88          | 5.24          |
| %RSD   | 41.16         | 63.38         | 64.50         | 26.54         | 61.62         | 35.68         |
| #1     | .1877         | .7628         | .3323         | -1.842        | 17.79         | 11.06         |
| #2     | .2286         | .2860         | 1.054         | -1.066        | 4.047         | 20.71         |
| #3     | .0925         | .2727         | 1.624         | -1.482        | 11.68         | 12.33         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>2.905</b>  | <b>.3328</b>  | <b>11.85</b>  | <b>-4.473</b> | <b>.0037</b>  | <b>.1265</b>  |
| Stddev | .253          | .0993         | 5.08          | .5203         | .4436         | 1.745         |
| %RSD   | 8.719         | 29.84         | 42.86         | 116.3         | 11960.        | 1380.         |
| #1     | 2.687         | .4394         | 17.69         | -.9482        | -.3357        | 1.797         |
| #2     | 3.183         | .2429         | 9.339         | .0905         | .5056         | -1.685        |
| #3     | 2.845         | .3162         | 8.517         | -.4844        | -.1588        | .2677         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: CCB      Acquired: 3/4/2016 21:05:04      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.562</b> | <b>.0256</b>  | <b>.4097</b>  | <b>.1933</b>  | <b>1.222</b>  | <b>.5650</b>  |
| Stddev | 2.757         | 2.132         | .2632         | .1433         | .360          | .6580         |
| %RSD   | 107.6         | 8337.         | 64.24         | 74.12         | 29.46         | 116.5         |
| #1     | -2.646        | 1.965         | .5477         | .3169         | 1.322         | 1.252         |
| #2     | -5.277        | -2.258        | .5753         | .2268         | 1.521         | .5019         |
| #3     | .2353         | .3704         | .1062         | .0363         | .8222         | -.0591        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.2184</b>  | <b>.4294</b>  | <b>.7753</b>  | <b>1.730</b>  |
| Stddev | .7866         | .1463         | .2038         | 11.31         |
| %RSD   | 360.2         | 34.08         | 26.29         | 654.1         |
| #1     | -.3592        | .5922         | .9503         | 14.26         |
| #2     | -.0999        | .3868         | .8241         | -7.727        |
| #3     | 1.114         | .3090         | .5516         | -1.347        |

|            |          |          |          |      |
|------------|----------|----------|----------|------|
| 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       | <b>2492.7</b> | <b>28232.</b> | <b>3715.3</b> |
| Stddev    | 6.1           | 267.          | 95.5          |
| %RSD      | .24525        | .94488        | 2.5701        |
| #1        | 2499.1        | 28339.        | 3633.4        |
| #2        | 2486.9        | 28429.        | 3820.2        |
| #3        | 2492.0        | 27929.        | 3692.3        |

Sample Name: 460-109644-D-4-A@4      Acquired: 3/4/2016 18:40:51      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>11950.</b> | <b>4.168</b>  | <b>-5002</b>  | <b>78.06</b>  | <b>.6622</b>  | <b>802.8</b>  |
| Stddev | 30.           | .882          | .3306         | .07           | .0724         | 5.5           |
| %RSD   | .2522         | 21.16         | 66.08         | .0862         | 10.93         | .6813         |
| #1     | 11990.        | 3.237         | -.3578        | 78.01         | .7440         | 807.9         |
| #2     | 11950.        | 4.991         | -.2647        | 78.05         | .6361         | 803.5         |
| #3     | 11930.        | 4.275         | -.8781        | 78.14         | .6065         | 797.0         |

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    | <b>71.69</b>  | <b>18.34</b>  | <b>987.1</b>  | <b>279.5</b>  | <b>44450.</b> | <b>2219.</b>  |
| Stddev | .23           | .17           | .4            | .9            | 96.           | 61.           |
| %RSD   | .3181         | .9350         | .0382         | .3314         | .2154         | 2.732         |
| #1     | 71.44         | 18.36         | 986.8         | 278.4         | 44560.        | 2205.         |
| #2     | 71.76         | 18.49         | 986.9         | 280.0         | 44400.        | 2286.         |
| #3     | 71.88         | 18.15         | 987.5         | 280.0         | 44400.        | 2167.         |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2695.</b>  | <b>726.7</b>  | <b>90.16</b>  | <b>233.9</b>  | <b>8.434</b>  | <b>2.406</b>  |
| Stddev | 6.            | 2.4           | 6.12          | .7            | 1.628         | .791          |
| %RSD   | .2245         | .3278         | 6.785         | .2895         | 19.31         | 32.87         |
| #1     | 2691.         | 729.4         | 93.32         | 233.6         | 6.648         | 3.175         |
| #2     | 2702.         | 725.3         | 83.11         | 233.4         | 8.818         | 1.595         |
| #3     | 2693.         | 725.2         | 94.05         | 234.7         | 9.837         | 2.450         |

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

Sample Name: 460-109644-D-4-A@4      Acquired: 3/4/2016 18:40:51      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.261</b>  | <b>-4.556</b> | <b>28.63</b>  | <b>196.6</b>  | <b>-.1986</b> | <b>1.346</b>  |
| Stddev | .583          | 1.555         | .31           | 1.3           | .1375         | .290          |
| %RSD   | 46.19         | 34.13         | 1.072         | .6705         | 69.22         | 21.56         |
| #1     | 1.804         | -4.440        | 28.94         | 195.1         | -.1205        | 1.583         |
| #2     | .6455         | -3.062        | 28.61         | 197.4         | -.3574        | 1.434         |
| #3     | 1.334         | -6.166        | 28.33         | 197.2         | -.1180        | 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    | <b>3.947</b>  | <b>12.38</b>  | <b>664.3</b>  | <b>535.8</b>  |
| Stddev | .636          | .09           | .3            | 21.2          |
| %RSD   | 16.11         | .7662         | .0449         | 3.956         |
| #1     | 3.311         | 12.35         | 664.0         | 531.7         |
| #2     | 3.946         | 12.48         | 664.6         | 516.9         |
| #3     | 4.583         | 12.30         | 664.3         | 558.7         |

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

| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
|-----------|---------------|---------------|---------------|
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2414.3</b> | <b>27323.</b> | <b>3653.2</b> |
| Stddev    | 32.8          | 301.          | 30.6          |
| %RSD      | 1.3580        | 1.1021        | .83820        |
| #1        | 2433.1        | 26998.        | 3630.5        |
| #2        | 2433.2        | 27593.        | 3688.0        |
| #3        | 2376.4        | 27378.        | 3640.9        |

Sample Name: CCVL      Acquired: 3/4/2016 21:09:06      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>220.3</b>  | <b>16.70</b>  | <b>9.555</b>  | <b>211.8</b>  | <b>2.354</b>  | <b>5299.</b>  |
| Stddev | 18.8          | 2.83          | .287          | .6            | .128          | 38.           |
| %RSD   | 8.526         | 16.95         | 3.001         | .3013         | 5.415         | .7141         |
| #1     | 222.8         | 18.71         | 9.316         | 211.8         | 2.468         | 5276.         |
| #2     | 200.4         | 13.46         | 9.873         | 212.4         | 2.378         | 5278.         |
| #3     | 237.7         | 17.92         | 9.476         | 211.1         | 2.216         | 5342.         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4.449</b>  | <b>53.76</b>  | <b>10.83</b>  | <b>23.29</b>  | <b>170.1</b>  | <b>5233.</b>  |
| Stddev | .112          | .31           | .86           | .31           | 6.2           | 64.           |
| %RSD   | 2.510         | .5688         | 7.954         | 1.319         | 3.623         | 1.216         |
| #1     | 4.521         | 53.81         | 10.08         | 23.49         | 177.2         | 5159.         |
| #2     | 4.320         | 54.04         | 10.64         | 23.45         | 166.9         | 5263.         |
| #3     | 4.505         | 53.43         | 11.77         | 22.94         | 166.2         | 5276.         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>5059.</b>  | <b>16.71</b>  | <b>5184.</b>  | <b>43.23</b>  | <b>10.41</b>  | <b>19.76</b>  |
| Stddev | 44.           | .14           | 39.           | .19           | 1.24          | .41           |
| %RSD   | .8696         | .8577         | .7593         | .4279         | 11.88         | 2.079         |
| #1     | 5017.         | 16.60         | 5227.         | 43.16         | 10.42         | 20.23         |
| #2     | 5055.         | 16.67         | 5175.         | 43.08         | 9.171         | 19.49         |
| #3     | 5105.         | 16.87         | 5150.         | 43.44         | 11.64         | 19.55         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCVL      Acquired: 3/4/2016 21:09:06      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 16.92         | 21.77         | 53.62         | 33.22         | 46.74         | 20.39         |
| Stddev | 3.22          | 1.43          | .49           | .25           | .49           | .36           |
| %RSD   | 19.03         | 6.557         | .9057         | .7532         | 1.052         | 1.781         |
| #1     | 13.95         | 22.95         | 54.08         | 32.94         | 46.39         | 20.24         |
| #2     | 20.35         | 20.19         | 53.11         | 33.34         | 46.52         | 20.80         |
| #3     | 16.47         | 22.17         | 53.68         | 33.39         | 47.30         | 20.12         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | 53.19         | 21.95         | 21.47         | F 23.97       |
| Stddev | .50           | .03           | .35           | 19.08         |
| %RSD   | .9480         | .1405         | 1.619         | 79.62         |
| #1     | 52.64         | 21.95         | 21.41         | 3.817         |
| #2     | 53.62         | 21.97         | 21.84         | 41.76         |
| #3     | 53.32         | 21.91         | 21.15         | 26.32         |

|         |          |          |          |          |
|---------|----------|----------|----------|----------|
| 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       | 2459.8        | 27588.        | 3713.5        |
| Stddev    | 25.1          | 314.          | 67.0          |
| %RSD      | 1.0206        | 1.1365        | 1.8041        |
| #1        | 2483.9        | 27650.        | 3723.6        |
| #2        | 2461.7        | 27866.        | 3774.9        |
| #3        | 2433.8        | 27248.        | 3642.0        |

Sample Name: MB 460-353914/1-A@2      Acquired: 3/4/2016 18:44:41      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-10.93</b> | <b>1.191</b>  | <b>-.5554</b> | <b>-.0952</b> | <b>.0580</b>  | <b>-59.36</b> |
| Stddev | 15.90         | 1.191         | .5687         | .0881         | .0582         | 8.24          |
| %RSD   | 145.5         | 99.98         | 102.4         | 92.53         | 100.2         | 13.88         |
| #1     | <b>-29.25</b> | <b>1.047</b>  | <b>.0443</b>  | <b>-.0834</b> | <b>.0873</b>  | <b>-68.32</b> |
| #2     | <b>-2.863</b> | <b>2.447</b>  | <b>-.6235</b> | <b>-.1886</b> | <b>-.0089</b> | <b>-57.64</b> |
| #3     | <b>-.6705</b> | <b>.0786</b>  | <b>-1.087</b> | <b>-.0136</b> | <b>.0958</b>  | <b>-52.11</b> |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.1864</b>  | <b>.2175</b>  | <b>.1857</b>  | <b>-3.922</b> | <b>5.554</b>  | <b>-26.24</b> |
| Stddev | .1126         | .3325         | .1717         | .299          | 8.031         | 60.78         |
| %RSD   | 60.38         | 152.9         | 92.45         | 7.622         | 144.6         | 231.7         |
| #1     | <b>.2105</b>  | <b>.2705</b>  | <b>-.0122</b> | <b>-3.815</b> | <b>14.55</b>  | <b>-2.159</b> |
| #2     | <b>.2850</b>  | <b>.5203</b>  | <b>.2945</b>  | <b>-4.260</b> | <b>3.018</b>  | <b>18.82</b>  |
| #3     | <b>.0638</b>  | <b>-.1384</b> | <b>.2749</b>  | <b>-3.692</b> | <b>-.9018</b> | <b>-95.37</b> |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-3.102</b> | <b>.0488</b>  | <b>-3.195</b> | <b>-1.079</b> | <b>.4815</b>  | <b>1.478</b>  |
| Stddev | 7.263         | .1124         | 8.126         | .166          | 1.947         | 1.131         |
| %RSD   | 234.1         | 230.2         | 254.3         | 15.43         | 404.4         | 76.56         |
| #1     | <b>4.962</b>  | <b>.0568</b>  | <b>-6.070</b> | <b>-1.038</b> | <b>-1.712</b> | <b>.3642</b>  |
| #2     | <b>-5.139</b> | <b>-.0674</b> | <b>-9.493</b> | <b>-1.262</b> | <b>1.149</b>  | <b>1.443</b>  |
| #3     | <b>-9.130</b> | <b>.1569</b>  | <b>5.978</b>  | <b>-.9367</b> | <b>2.008</b>  | <b>2.626</b>  |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: MB 460-353914/1-A@2      Acquired: 3/4/2016 18:44:41      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-3.453</b> | <b>2.159</b>  | <b>.1687</b>  | <b>.8365</b>  | <b>-.9034</b> | <b>-.1336</b> |
| Stddev | 2.291         | 1.362         | .2100         | .1698         | .1826         | .1501         |
| %RSD   | 66.35         | 63.10         | 124.5         | 20.29         | 20.21         | 112.4         |
| #1     | -2.005        | 2.790         | .3968         | .6874         | -1.098        | -.2035        |
| #2     | -2.259        | .5954         | -.0167        | .8010         | -.7362        | -.2360        |
| #3     | -6.094        | 3.090         | .1260         | 1.021         | -.8757        | .0387         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.1396</b>  | <b>.0749</b>  | <b>.2488</b>  | <b>6.437</b>  |
| Stddev | 1.185         | .0927         | .1018         | 12.07         |
| %RSD   | 848.6         | 123.7         | 40.89         | 187.5         |
| #1     | -.0046        | .1644         | .3327         | 4.615         |
| #2     | -.9664        | .0810         | .1356         | 19.32         |
| #3     | 1.390         | -.0206        | .2781         | -4.620        |

|            |          |          |          |      |
|------------|----------|----------|----------|------|
| 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       | <b>2442.8</b> | <b>28107.</b> | <b>3610.2</b> |
| Stddev    | 27.5          | 208.          | 35.6          |
| %RSD      | 1.1259        | .74120        | .98593        |
| #1        | 2435.7        | 27970.        | 3613.6        |
| #2        | 2473.2        | 28346.        | 3573.0        |
| #3        | 2419.6        | 28003.        | 3643.9        |



Sample Name: CCV      Acquired: 3/4/2016 18:52:23      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |                |               |               |               |               |                |
|--------|----------------|---------------|---------------|---------------|---------------|----------------|
| Elem   | Al3961         | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181         |
| Line   | 396.152 { 85}  | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106}  |
| IS Ref | (Y_3710)       | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)       |
| Units  | ppb            | ppb           | ppb           | ppb           | ppb           | ppb            |
| Avg    | <b>129800.</b> | <b>2372.</b>  | <b>1194.</b>  | <b>10240.</b> | <b>1077.</b>  | <b>125100.</b> |
| Stddev | 107.           | 11.           | 3.            | 40.           | 3.            | 839.           |
| %RSD   | .0825          | .4842         | .2450         | .3913         | .3077         | .6707          |

|    |         |       |       |        |       |         |
|----|---------|-------|-------|--------|-------|---------|
| #1 | 129800. | 2361. | 1197. | 10220. | 1074. | 126000. |
| #2 | 129800. | 2373. | 1192. | 10210. | 1081. | 124500. |
| #3 | 129600. | 2383. | 1193. | 10280. | 1077. | 124700. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>1273.</b>  | <b>2525.</b>  | <b>4804.</b>  | <b>12570.</b> | <b>97600.</b> | <b>52950.</b> |
| Stddev | 5.            | 8.            | 27.           | 31.           | 530.          | 107.          |
| %RSD   | .4260         | .3132         | .5564         | .2492         | .5429         | .2013         |

|    |       |       |       |        |        |        |
|----|-------|-------|-------|--------|--------|--------|
| #1 | 1272. | 2522. | 4829. | 12540. | 98150. | 52870. |
| #2 | 1268. | 2519. | 4775. | 12560. | 97100. | 53070. |
| #3 | 1279. | 2534. | 4807. | 12600. | 97540. | 52910. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>117200.</b> | <b>5144.</b>  | <b>128200.</b> | <b>2588.</b>  | <b>7289.</b>  | <b>1001.</b>  |
| Stddev | 548.           | 33.           | 142.           | 7.            | 30.           | 2.            |
| %RSD   | .4679          | .6496         | .1110          | .2888         | .4146         | .1647         |

|    |         |       |         |       |       |       |
|----|---------|-------|---------|-------|-------|-------|
| #1 | 117800. | 5178. | 128100. | 2587. | 7280. | 1000. |
| #2 | 116700. | 5111. | 128200. | 2581. | 7265. | 1003. |
| #3 | 117000. | 5142. | 128400. | 2596. | 7323. | 1001. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCV      Acquired: 3/4/2016 18:52:23      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2401.</b>  | <b>2497.</b>  | <b>2528.</b>  | <b>2497.</b>  | <b>962.3</b>  | <b>2548.</b>  |
| Stddev | 11.           | 10.           | 13.           | 15.           | 6.7           | 11.           |
| %RSD   | .4667         | .3998         | .5268         | .6182         | .6927         | .4388         |

|    |              |              |              |              |              |              |
|----|--------------|--------------|--------------|--------------|--------------|--------------|
| #1 | <b>2389.</b> | <b>2493.</b> | <b>2540.</b> | <b>2502.</b> | <b>955.2</b> | <b>2539.</b> |
| #2 | <b>2403.</b> | <b>2489.</b> | <b>2514.</b> | <b>2479.</b> | <b>963.2</b> | <b>2544.</b> |
| #3 | <b>2411.</b> | <b>2508.</b> | <b>2529.</b> | <b>2508.</b> | <b>968.4</b> | <b>2561.</b> |

|         |                 |                 |                 |                 |                 |                 |
|---------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Check ? | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> |
| 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    | <b>1023.</b>  | <b>5324.</b>  | <b>9904.</b>  | <b>10020.</b> |
| Stddev | 3.            | 28.           | 20.           | 233.          |
| %RSD   | .3008         | .5194         | .2045         | 2.328         |

|    |              |              |              |               |
|----|--------------|--------------|--------------|---------------|
| #1 | <b>1021.</b> | <b>5293.</b> | <b>9913.</b> | <b>9764.</b>  |
| #2 | <b>1020.</b> | <b>5345.</b> | <b>9880.</b> | <b>10090.</b> |
| #3 | <b>1026.</b> | <b>5335.</b> | <b>9917.</b> | <b>10220.</b> |

|         |                 |                 |                 |      |
|---------|-----------------|-----------------|-----------------|------|
| Check ? | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | 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       | <b>2399.1</b> | <b>28056.</b> | <b>3724.7</b> |
| Stddev    | 24.3          | 622.          | 102.4         |
| %RSD      | 1.0111        | 2.2174        | 2.7486        |

|    |               |               |               |
|----|---------------|---------------|---------------|
| #1 | <b>2379.0</b> | <b>27339.</b> | <b>3606.5</b> |
| #2 | <b>2426.1</b> | <b>28454.</b> | <b>3782.4</b> |
| #3 | <b>2392.3</b> | <b>28375.</b> | <b>3785.2</b> |

Sample Name: CCB      Acquired: 3/4/2016 18:55:58      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>11.64</b>  | <b>1.500</b>  | <b>-.2907</b> | <b>.5998</b>  | <b>.1649</b>  | <b>-48.36</b> |
| Stddev | 23.10         | .987          | .2705         | .2300         | .1885         | 4.01          |
| %RSD   | 198.5         | 65.83         | 93.04         | 38.35         | 114.3         | 8.284         |
| #1     | -7.525        | 2.600         | -.2901        | .8199         | .2654         | -50.37        |
| #2     | 5.150         | .6923         | -.5616        | .3610         | -.0525        | -50.95        |
| #3     | 37.29         | 1.207         | -.0206        | .6184         | .2819         | -43.74        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.2077</b>  | <b>.4155</b>  | <b>.4924</b>  | <b>-1.337</b> | <b>19.70</b>  | <b>-.3515</b> |
| Stddev | .1225         | .2894         | 1.110         | .750          | 6.46          | 29.56         |
| %RSD   | 59.01         | 69.65         | 225.5         | 56.08         | 32.77         | 8409.         |
| #1     | .0663         | .5997         | .6770         | -1.469        | 14.07         | -11.77        |
| #2     | .2729         | .0819         | -.6985        | -2.012        | 18.28         | 33.21         |
| #3     | .2838         | .5649         | 1.499         | -.5300        | 26.74         | -22.50        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>5.676</b>  | <b>.4823</b>  | <b>26.39</b>  | <b>-.5652</b> | <b>-.1560</b> | <b>-.0631</b> |
| Stddev | 9.876         | .2636         | 3.74          | .8540         | .8169         | .3476         |
| %RSD   | 174.0         | 54.66         | 14.17         | 151.1         | 523.8         | 550.4         |
| #1     | 6.764         | .2442         | 25.16         | -1.543        | .7438         | .3285         |
| #2     | -4.698        | .4372         | 23.42         | -1.883        | -.8511        | -.1832        |
| #3     | 14.96         | .7656         | 30.58         | .0355         | -.3606        | -.3348        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: CCB      Acquired: 3/4/2016 18:55:58      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.179</b> | <b>.9092</b>  | <b>.3987</b>  | <b>.1899</b>  | <b>1.136</b>  | <b>.9368</b>  |
| Stddev | 1.645         | .7457         | .5489         | .1387         | .564          | .7736         |
| %RSD   | 75.48         | 82.02         | 137.7         | 73.04         | 49.62         | 82.58         |
| #1     | -1.697        | 1.141         | -.1934        | .2504         | 1.706         | 1.818         |
| #2     | -4.011        | 1.512         | .8906         | .0312         | .5789         | .3704         |
| #3     | -.8291        | .0752         | .4989         | .2880         | 1.123         | .6218         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.9884</b>  | <b>.7373</b>  | <b>1.079</b>  | <b>15.13</b>  |
| Stddev | 1.274         | .7739         | .390          | 26.76         |
| %RSD   | 128.9         | 105.0         | 36.14         | 176.9         |
| #1     | -.4408        | .1838         | .9887         | 20.51         |
| #2     | 2.004         | .4065         | .7424         | -13.91        |
| #3     | 1.402         | 1.622         | 1.507         | 38.79         |

|            |          |          |          |      |
|------------|----------|----------|----------|------|
| 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       | <b>2483.3</b> | <b>28410.</b> | <b>3832.3</b> |
| Stddev    | 15.2          | 368.          | 44.0          |
| %RSD      | .61150        | 1.2961        | 1.1486        |
| #1        | 2494.0        | 28461.        | 3788.0        |
| #2        | 2489.9        | 28749.        | 3876.1        |
| #3        | 2465.9        | 28018.        | 3832.9        |

Sample Name: 460-109568-A-1-D DU      Acquired: 3/4/2016 19:03:56      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1516.</b>  | <b>4.355</b>  | <b>-7814</b>  | <b>7.156</b>  | <b>.0655</b>  | <b>-6.345</b> |
| Stddev | 26.           | .935          | .3512         | .261          | .0598         | 9.096         |
| %RSD   | 1.700         | 21.47         | 44.95         | 3.652         | 91.21         | 143.4         |
| #1     | 1546.         | 3.458         | -.4128        | 7.288         | .1012         | -10.77        |
| #2     | 1497.         | 5.324         | -1.112        | 7.324         | -.0035        | -12.38        |
| #3     | 1506.         | 4.284         | -.8193        | 6.855         | .0989         | 4.117         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.1516</b> | <b>.4035</b>  | <b>6.732</b>  | <b>-1.291</b> | <b>762.8</b>  | <b>62.25</b>  |
| Stddev | .0767         | .2008         | .456          | .426          | 5.0           | 12.36         |
| %RSD   | 50.58         | 49.77         | 6.770         | 33.01         | .6610         | 19.86         |
| #1     | -.1195        | .4165         | 6.467         | -1.654        | 765.5         | 64.48         |
| #2     | -.0962        | .1965         | 7.258         | -1.399        | 757.0         | 48.92         |
| #3     | -.2391        | .5976         | 6.470         | -.8215        | 765.8         | 73.34         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>24.27</b>  | <b>5.766</b>  | <b>40.78</b>  | <b>-2892</b>  | <b>3.358</b>  | <b>1.793</b>  |
| Stddev | 4.46          | .041          | 9.52          | .7675         | 1.832         | 1.052         |
| %RSD   | 18.37         | .7050         | 23.33         | 265.4         | 54.56         | 58.68         |
| #1     | 23.01         | 5.804         | 31.12         | -.9224        | 5.370         | .6913         |
| #2     | 29.22         | 5.772         | 41.06         | -.5095        | 2.917         | 1.900         |
| #3     | 20.58         | 5.724         | 50.14         | .5644         | 1.787         | 2.787         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109568-A-1-D DU      Acquired: 3/4/2016 19:03:56      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.382</b> | <b>-3.174</b> | <b>5.871</b>  | <b>1.336</b>  | <b>1.266</b>  | <b>1.033</b>  |
| Stddev | .938          | 1.182         | .074          | .248          | .222          | .204          |
| %RSD   | 39.37         | 37.25         | 1.259         | 18.59         | 17.54         | 19.73         |
| #1     | -2.483        | -2.072        | 5.788         | 1.536         | 1.521         | 1.134         |
| #2     | -1.398        | -3.027        | 5.932         | 1.058         | 1.163         | 1.166         |
| #3     | -3.266        | -4.423        | 5.892         | 1.413         | 1.115         | .7981         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>5.571</b>  | <b>2.088</b>  | <b>136.7</b>  | <b>562.8</b>  |
| Stddev | .932          | .042          | .7            | 8.1           |
| %RSD   | 16.72         | 2.000         | .5193         | 1.439         |
| #1     | 5.772         | 2.117         | 136.4         | 553.6         |
| #2     | 6.385         | 2.108         | 136.2         | 565.7         |
| #3     | 4.555         | 2.040         | 137.5         | 569.0         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |
| Low Limit  |          |          |          |          |

|           |               |               |               |
|-----------|---------------|---------------|---------------|
| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2441.9</b> | <b>27595.</b> | <b>3740.5</b> |
| Stddev    | 10.8          | 34.           | 43.5          |
| %RSD      | .44092        | .12405        | 1.1620        |
| #1        | 2433.6        | 27634.        | 3690.6        |
| #2        | 2454.1        | 27570.        | 3760.8        |
| #3        | 2438.2        | 27581.        | 3770.1        |

Sample Name: sd 460-109568-E-1-D      Acquired: 3/4/2016 19:11:54      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>284.4</b>  | <b>1.797</b>  | <b>-3736</b>  | <b>1.221</b>  | <b>.0337</b>  | <b>-37.56</b> |
| Stddev | 4.3           | .547          | .2965         | .100          | .1062         | 6.11          |
| %RSD   | 1.523         | 30.44         | 79.35         | 8.194         | 315.1         | 16.27         |
| #1     | 289.2         | 1.620         | -.2045        | 1.120         | .0012         | -31.16        |
| #2     | 283.2         | 2.410         | -.7160        | 1.320         | .1524         | -38.17        |
| #3     | 280.8         | 1.360         | -.2004        | 1.222         | -.0524        | -43.34        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.1000</b>  | <b>.4038</b>  | <b>1.276</b>  | <b>-1.998</b> | <b>154.7</b>  | <b>21.43</b>  |
| Stddev | .0913         | .1869         | .358          | .357          | 7.4           | 5.72          |
| %RSD   | 91.24         | 46.27         | 28.09         | 17.88         | 4.806         | 26.69         |
| #1     | .1516         | .3126         | 1.490         | -2.366        | 156.1         | 24.83         |
| #2     | -.0053        | .6188         | 1.477         | -1.975        | 146.6         | 24.63         |
| #3     | .1538         | .2801         | .8624         | -1.653        | 161.3         | 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    | <b>1.379</b>  | <b>1.166</b>  | <b>6.259</b>  | <b>-1.838</b> | <b>1.257</b>  | <b>.2660</b>  |
| Stddev | 4.957         | .056          | 6.968         | .6104         | 1.007         | 1.498         |
| %RSD   | 359.4         | 4.808         | 111.3         | 332.1         | 80.15         | 563.3         |
| #1     | -.3836        | 1.180         | 12.10         | -.4914        | .6376         | 1.940         |
| #2     | 6.977         | 1.104         | -1.453        | -.5792        | 2.419         | -.1919        |
| #3     | -2.455        | 1.214         | 8.131         | .5192         | .7138         | -.9500        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: sd 460-109568-E-1-D      Acquired: 3/4/2016 19:11:54      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.0896</b> | <b>-1.272</b> | <b>.9803</b>  | <b>.2307</b>  | <b>.0833</b>  | <b>.4211</b>  |
| Stddev | .6056         | 1.173         | .4727         | .0535         | .2513         | .2899         |
| %RSD   | 675.6         | 92.16         | 48.22         | 23.18         | 301.8         | 68.84         |
| #1     | .5752         | -2.279        | .9472         | .1874         | -.2043        | .7219         |
| #2     | -.2343        | .0153         | .5251         | .2142         | .1935         | .3979         |
| #3     | -.6097        | -1.554        | 1.469         | .2905         | .2606         | .1435         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.204</b>  | <b>.5837</b>  | <b>26.39</b>  | <b>138.9</b>  |
| Stddev | .860          | .1542         | .16           | 11.9          |
| %RSD   | 71.42         | 26.42         | .6087         | 8.563         |
| #1     | 1.699         | .4851         | 26.32         | 145.2         |
| #2     | 1.702         | .7615         | 26.57         | 146.3         |
| #3     | .2111         | .5046         | 26.28         | 125.2         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2495.1</b> | <b>28414.</b> | <b>3867.3</b> |
| Stddev    | 16.3          | 267.          | 27.6          |
| %RSD      | .65151        | .93943        | .71308        |
| #1        | 2478.2        | 28265.        | 3850.4        |
| #2        | 2496.5        | 28255.        | 3852.4        |
| #3        | 2510.6        | 28722.        | 3899.1        |



Sample Name: pds 460-109568-E-1-D      Acquired: 3/4/2016 19:19:40      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>3465.</b>  | <b>1798.</b>  | <b>45.49</b>  | <b>1941.</b>  | <b>51.28</b>  | <b>19010.</b> |
| Stddev | 5.            | 16.           | .11           | 6.            | .34           | 69.           |
| %RSD   | .1408         | .8834         | .2490         | .2877         | .6664         | .3609         |
| #1     | 3462.         | 1808.         | 45.50         | 1947.         | 51.52         | 19040.        |
| #2     | 3464.         | 1805.         | 45.60         | 1940.         | 50.89         | 19050.        |
| #3     | 3471.         | 1779.         | 45.38         | 1936.         | 51.42         | 18930.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>48.79</b>  | <b>486.6</b>  | <b>201.6</b>  | <b>233.0</b>  | <b>1704.</b>  | <b>18300.</b> |
| Stddev | .13           | 1.6           | .8            | .3            | 8.            | 74.           |
| %RSD   | .2668         | .3273         | .3988         | .1225         | .4565         | .4061         |
| #1     | 48.80         | 488.4         | 202.1         | 233.3         | 1701.         | 18390.        |
| #2     | 48.66         | 486.4         | 201.9         | 232.7         | 1713.         | 18270.        |
| #3     | 48.92         | 485.2         | 200.6         | 233.0         | 1698.         | 18250.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>17840.</b> | <b>502.1</b>  | <b>19290.</b> | <b>504.0</b>  | <b>454.8</b>  | <b>459.7</b>  |
| Stddev | 64.           | .8            | 28.           | 2.6           | 3.3           | 1.3           |
| %RSD   | .3605         | .1495         | .1465         | .5167         | .7145         | .2757         |
| #1     | 17880.        | 502.8         | 19300.        | 506.9         | 456.8         | 459.9         |
| #2     | 17870.        | 502.0         | 19250.        | 503.3         | 456.6         | 460.9         |
| #3     | 17760.        | 501.3         | 19300.        | 501.9         | 451.1         | 458.4         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: pds 460-109568-E-1-D      Acquired: 3/4/2016 19:19:40      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 1778.         | 1906.         | 498.9         | 492.5         | 449.2         | 485.5         |
| Stddev | 7.            | 2.            | 1.7           | .6            | .9            | .8            |
| %RSD   | .3824         | .1036         | .3352         | .1207         | .1992         | .1568         |
| #1     | 1785.         | 1908.         | 497.6         | 492.9         | 449.4         | 485.8         |
| #2     | 1776.         | 1904.         | 498.3         | 492.7         | 450.0         | 486.1         |
| #3     | 1772.         | 1907.         | 500.8         | 491.8         | 448.3         | 484.7         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | 496.0         | 502.1         | 616.5         | 608.2         |
| Stddev | .9            | 1.7           | .8            | 12.4          |
| %RSD   | .1717         | .3357         | .1312         | 2.039         |
| #1     | 496.8         | 503.6         | 617.4         | 594.6         |
| #2     | 496.0         | 500.3         | 616.5         | 618.8         |
| #3     | 495.1         | 502.3         | 615.8         | 611.1         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |
| Low Limit  |          |          |          |          |

| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
|-----------|---------------|---------------|---------------|
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | 2470.2        | 28453.        | 3924.7        |
| Stddev    | 1.5           | 48.           | 30.7          |
| %RSD      | .06106        | .16741        | .78118        |
| #1        | 2471.9        | 28437.        | 3890.1        |
| #2        | 2469.0        | 28416.        | 3935.6        |
| #3        | 2469.6        | 28507.        | 3948.4        |

Sample Name: 460-109542-E-18-B@4      Acquired: 3/4/2016 19:23:21      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|            |               |               |               |               |               |               |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem       | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line       | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref     | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units      | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg        | 56620.        | 8.156         | -1.796        | 417.1         | 3.326         | F 311600.     |
| Stddev     | 92.           | 1.432         | .4048         | 2.2           | .179          | 1704.         |
| %RSD       | .1627         | 17.56         | 225.4         | .5229         | 5.387         | .5468         |
| #1         | 56690.        | 7.502         | .0494         | 419.6         | 3.120         | 312800.       |
| #2         | 56510.        | 9.799         | .0587         | 416.1         | 3.408         | 309600.       |
| #3         | 56660.        | 7.169         | -.6471        | 415.7         | 3.450         | 312300.       |
| 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        | -.3610        | 49.01         | 93.82         | 91.07         | 128700.       | 37490.        |
| Stddev     | .1674         | .55           | .97           | .99           | 834.          | 22.           |
| %RSD       | 46.38         | 1.126         | 1.038         | 1.085         | .6481         | .0578         |
| #1         | -.5538        | 48.91         | 93.56         | 92.09         | 129000.       | 37480.        |
| #2         | -.2770        | 48.52         | 93.01         | 90.11         | 127800.       | 37520.        |
| #3         | -.2522        | 49.61         | 94.90         | 91.01         | 129400.       | 37490.        |
| Check ?    | Chk Pass      | Chk Pass      | Chk Pass      | Chk Pass      | Chk Pass      | Chk Pass      |
| High Limit |               |               |               |               |               |               |
| Low Limit  |               |               |               |               |               |               |

|            |               |               |               |               |               |               |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem       | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line       | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref     | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units      | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg        | 207200.       | 2001.         | 982.9         | 98.52         | 103.8         | .8658         |
| Stddev     | 1451.         | 9.            | 17.3          | .74           | 2.1           | 1.667         |
| %RSD       | .7006         | .4491         | 1.764         | .7553         | 2.040         | 192.6         |
| #1         | 207800.       | 2001.         | 982.5         | 98.44         | 102.5         | 1.081         |
| #2         | 205500.       | 1992.         | 1000.         | 99.30         | 106.3         | -.8990        |
| #3         | 208200.       | 2010.         | 965.7         | 97.82         | 102.7         | 2.415         |
| Check ?    | Chk Pass      | Chk Pass      | Chk Pass      | Chk Pass      | Chk Pass      | Chk Pass      |
| High Limit |               |               |               |               |               |               |
| Low Limit  |               |               |               |               |               |               |

Sample Name: 460-109542-E-18-B@4      Acquired: 3/4/2016 19:23:21      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.2094</b>  | <b>.4538</b>  | <b>132.2</b>  | <b>320.5</b>  | <b>.3056</b>  | <b>1.436</b>  |
| Stddev | 4.089         | 3.856         | 1.0           | 1.1           | .5948         | .296          |
| %RSD   | 1953.         | 849.7         | .7264         | .3342         | 194.6         | 20.60         |
| #1     | -1.507        | -3.954        | 132.3         | 321.1         | .6198         | 1.346         |
| #2     | -2.742        | 3.205         | 131.3         | 319.3         | .6774         | 1.767         |
| #3     | 4.877         | 2.110         | 133.2         | 321.2         | -.3804        | 1.196         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2.213</b>  | <b>222.5</b>  | <b>4138.</b>  | <b>1146.</b>  |
| Stddev | 1.668         | .9            | 14.           | 25.           |
| %RSD   | 75.39         | .3863         | .3289         | 2.223         |
| #1     | 3.772         | 223.4         | 4145.         | 1126.         |
| #2     | .4531         | 222.0         | 4122.         | 1136.         |
| #3     | 2.414         | 221.9         | 4147.         | 1174.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2455.8</b> | <b>28731.</b> | <b>3976.5</b> |
| Stddev    | 19.6          | 321.          | 8.3           |
| %RSD      | .79739        | 1.1182        | .20981        |
| #1        | 2443.2        | 28657.        | 3967.0        |
| #2        | 2478.4        | 29084.        | 3982.7        |
| #3        | 2445.9        | 28454.        | 3979.7        |

Sample Name: 460-109542-E-21-A@4      Acquired: 3/4/2016 19:27:10      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>39260.</b> | <b>9.438</b>  | <b>.1274</b>  | <b>345.9</b>  | <b>2.261</b>  | <b>35160.</b> |
| Stddev | 277.          | 1.026         | .2224         | 1.6           | .085          | 185.          |
| %RSD   | .7043         | 10.87         | 174.5         | .4650         | 3.774         | .5259         |

|    |        |       |        |       |       |        |
|----|--------|-------|--------|-------|-------|--------|
| #1 | 39060. | 9.387 | .2271  | 345.2 | 2.338 | 34980. |
| #2 | 39140. | 8.439 | .2826  | 344.8 | 2.276 | 35350. |
| #3 | 39570. | 10.49 | -.1274 | 347.8 | 2.169 | 35160. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |                |               |
|--------|---------------|---------------|---------------|---------------|----------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714         | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124}  | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)       | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb            | ppb           |
| Avg    | <b>-1.830</b> | <b>44.73</b>  | <b>145.9</b>  | <b>112.2</b>  | <b>110400.</b> | <b>16150.</b> |
| Stddev | .331          | .12           | 1.1           | .2            | 629.           | 87.           |
| %RSD   | 18.06         | .2631         | .7863         | .1708         | .5698          | .5399         |

|    |        |       |       |       |         |        |
|----|--------|-------|-------|-------|---------|--------|
| #1 | -1.539 | 44.60 | 144.6 | 112.3 | 109900. | 16110. |
| #2 | -2.189 | 44.82 | 146.1 | 112.2 | 111100. | 16100. |
| #3 | -1.763 | 44.77 | 146.8 | 112.0 | 110200. | 16260. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>28870.</b> | <b>2273.</b>  | <b>1289.</b>  | <b>83.99</b>  | <b>143.9</b>  | <b>1.642</b>  |
| Stddev | 158.          | 10.           | 21.           | .73           | 1.7           | 1.934         |
| %RSD   | .5488         | .4596         | 1.647         | .8652         | 1.198         | 117.8         |

|    |        |       |       |       |       |        |
|----|--------|-------|-------|-------|-------|--------|
| #1 | 28750. | 2262. | 1292. | 83.57 | 145.5 | -.1205 |
| #2 | 29050. | 2283. | 1266. | 83.57 | 144.2 | 3.710  |
| #3 | 28820. | 2273. | 1308. | 84.83 | 142.1 | 1.336  |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109542-E-21-A@4      Acquired: 3/4/2016 19:27:10      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2.872</b>  | <b>-4.151</b> | <b>115.8</b>  | <b>236.5</b>  | <b>1.190</b>  | <b>1.893</b>  |
| Stddev | 1.798         | .971          | .6            | 1.6           | .058          | .470          |
| %RSD   | 62.61         | 23.38         | .5442         | .6815         | 4.888         | 24.83         |
| #1     | .8033         | -4.594        | 115.2         | 235.4         | 1.172         | 2.432         |
| #2     | 3.753         | -4.820        | 116.5         | 238.4         | 1.143         | 1.681         |
| #3     | 4.061         | -3.038        | 115.6         | 235.8         | 1.255         | 1.566         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>9.478</b>  | <b>99.10</b>  | <b>2916.</b>  | <b>855.9</b>  |
| Stddev | 1.040         | .27           | 11.           | 26.2          |
| %RSD   | 10.98         | .2738         | .3610         | 3.058         |
| #1     | 10.55         | 99.33         | 2905.         | 848.3         |
| #2     | 8.472         | 98.80         | 2926.         | 885.1         |
| #3     | 9.413         | 99.17         | 2918.         | 834.4         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2497.4</b> | <b>28743.</b> | <b>3911.8</b> |
| Stddev    | 60.7          | 537.          | 35.7          |
| %RSD      | 2.4320        | 1.8681        | .91329        |
| #1        | 2480.2        | 28500.        | 3948.5        |
| #2        | 2447.1        | 28371.        | 3909.8        |
| #3        | 2564.9        | 29359.        | 3877.2        |

Sample Name: 460-109542-E-23-A@4      Acquired: 3/4/2016 19:34:53      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 46010.        | 21.93         | -.0219        | 520.2         | 2.416         | F 382900.     |
| Stddev | 163.          | 1.82          | .2723         | 3.1           | .042          | 1124.         |
| %RSD   | .3549         | 8.306         | 1244.         | .5900         | 1.744         | .2935         |

|    |        |       |        |       |       |         |
|----|--------|-------|--------|-------|-------|---------|
| #1 | 45840. | 20.27 | .0819  | 521.7 | 2.449 | 381900. |
| #2 | 46010. | 21.63 | .1832  | 516.7 | 2.430 | 382800. |
| #3 | 46170. | 23.88 | -.3308 | 522.2 | 2.368 | 384100. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | -.2674        | 26.12         | 155.8         | 80.83         | 94180.        | 10260.        |
| Stddev | .0686         | .31           | .8            | .17           | 91.           | 31.           |
| %RSD   | 25.66         | 1.183         | .5437         | .2092         | .0962         | .3020         |

|    |        |       |       |       |        |        |
|----|--------|-------|-------|-------|--------|--------|
| #1 | -.3322 | 25.85 | 154.9 | 80.84 | 94120. | 10240. |
| #2 | -.1955 | 26.04 | 156.0 | 80.99 | 94140. | 10250. |
| #3 | -.2745 | 26.45 | 156.6 | 80.65 | 94290. | 10300. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 40560.        | 1157.         | 2735.         | 145.4         | 404.6         | -1.497        |
| Stddev | 69.           | 3.            | 17.           | .3            | 1.4           | 2.439         |
| %RSD   | .1692         | .2164         | .6089         | .1810         | .3425         | 162.9         |

|    |        |       |       |       |       |        |
|----|--------|-------|-------|-------|-------|--------|
| #1 | 40600. | 1154. | 2726. | 145.5 | 404.9 | .4324  |
| #2 | 40480. | 1158. | 2725. | 145.1 | 403.1 | -.6848 |
| #3 | 40610. | 1159. | 2754. | 145.5 | 405.8 | -4.239 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109542-E-23-A@4      Acquired: 3/4/2016 19:34:53      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | -1.502        | -5.306        | 119.4         | 535.6         | 90.30         | 3.582         |
| Stddev | .721          | .770          | .8            | 1.9           | 1.16          | .390          |
| %RSD   | 47.99         | 14.52         | .6355         | .3551         | 1.283         | 10.88         |
| #1     | -2.328        | -6.129        | 118.7         | 537.8         | 89.74         | 3.917         |
| #2     | -1.170        | -4.602        | 120.2         | 534.4         | 89.53         | 3.154         |
| #3     | -1.006        | -5.187        | 119.3         | 534.5         | 91.63         | 3.675         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | 5.814         | 2132.         | 1769.         | 1358.         |
| Stddev | .984          | 3.            | 1.            | 35.           |
| %RSD   | 16.92         | .1275         | .0768         | 2.595         |
| #1     | 5.511         | 2129.         | 1768.         | 1395.         |
| #2     | 5.017         | 2132.         | 1770.         | 1354.         |
| #3     | 6.913         | 2134.         | 1768.         | 1325.         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | 2442.1        | 28328.        | 3916.1        |
| Stddev    | 5.5           | 137.          | 48.7          |
| %RSD      | .22588        | .48260        | 1.2429        |
| #1        | 2438.5        | 28406.        | 3961.0        |
| #2        | 2448.5        | 28408.        | 3923.0        |
| #3        | 2439.3        | 28170.        | 3864.4        |



Sample Name: 460-109542-E-24-A@4      Acquired: 3/4/2016 19:38:43      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>43840.</b> | <b>9.645</b>  | <b>-0.839</b> | <b>135.1</b>  | <b>4.762</b>  | <b>2866.</b>  |
| Stddev | 213.          | 2.049         | .5178         | .5            | .075          | 14.           |
| %RSD   | .4860         | 21.24         | 617.4         | .3883         | 1.568         | .5059         |

|    |        |       |        |       |       |       |
|----|--------|-------|--------|-------|-------|-------|
| #1 | 44060. | 8.016 | -.2843 | 135.0 | 4.832 | 2878. |
| #2 | 43630. | 11.95 | .5042  | 134.6 | 4.771 | 2871. |
| #3 | 43830. | 8.975 | -.4715 | 135.6 | 4.683 | 2850. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |                |               |
|--------|---------------|---------------|---------------|---------------|----------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714         | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124}  | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)       | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb            | ppb           |
| Avg    | <b>-2.543</b> | <b>66.01</b>  | <b>66.76</b>  | <b>97.19</b>  | <b>110800.</b> | <b>3114.</b>  |
| Stddev | .155          | .16           | .15           | .07           | 429.           | 30.           |
| %RSD   | 6.097         | .2389         | .2199         | .0679         | .3874          | .9750         |

|    |        |       |       |       |         |       |
|----|--------|-------|-------|-------|---------|-------|
| #1 | -2.501 | 65.92 | 66.91 | 97.12 | 111200. | 3141. |
| #2 | -2.413 | 66.19 | 66.74 | 97.19 | 110800. | 3081. |
| #3 | -2.714 | 65.92 | 66.62 | 97.25 | 110400. | 3120. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>8077.</b>  | <b>299.5</b>  | <b>197.7</b>  | <b>201.6</b>  | <b>33.37</b>  | <b>.3902</b>  |
| Stddev | 38.           | .6            | 3.8           | .4            | 1.83          | .4737         |
| %RSD   | .4745         | .2100         | 1.904         | .2127         | 5.474         | 121.4         |

|    |       |       |       |       |       |        |
|----|-------|-------|-------|-------|-------|--------|
| #1 | 8107. | 300.0 | 199.1 | 201.1 | 35.38 | -.0984 |
| #2 | 8090. | 299.7 | 193.5 | 202.0 | 31.82 | .8475  |
| #3 | 8033. | 298.7 | 200.6 | 201.7 | 32.90 | .4214  |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109542-E-24-A@4      Acquired: 3/4/2016 19:38:43      Type: Unk  
 Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
 User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
 Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.180</b>  | <b>-5.934</b> | <b>141.2</b>  | <b>606.8</b>  | <b>1.912</b>  | <b>3.120</b>  |
| Stddev | 1.574         | 1.324         | .2            | 1.1           | .558          | .108          |
| %RSD   | 37.66         | 22.30         | .1574         | .1793         | 29.19         | 3.473         |
| #1     | 2.917         | -6.364        | 141.4         | 607.8         | 2.490         | 3.165         |
| #2     | 3.680         | -6.990        | 141.0         | 607.0         | 1.869         | 2.996         |
| #3     | 5.944         | -4.449        | 141.3         | 605.7         | 1.377         | 3.199         |

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

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.299</b>  | <b>51.00</b>  | <b>780.4</b>  | <b>806.9</b>  |
| Stddev | 1.153         | .17           | 1.8           | 19.0          |
| %RSD   | 26.82         | .3402         | .2257         | 2.351         |
| #1     | 3.555         | 51.14         | 782.0         | 785.5         |
| #2     | 5.627         | 50.80         | 780.7         | 821.5         |
| #3     | 3.715         | 51.05         | 778.5         | 813.6         |

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

| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
|-----------|---------------|---------------|---------------|
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2595.5</b> | <b>29929.</b> | <b>4013.8</b> |
| Stddev    | 17.5          | 406.          | 60.9          |
| %RSD      | .67389        | 1.3575        | 1.5168        |
| #1        | 2579.2        | 29579.        | 3945.5        |
| #2        | 2593.3        | 29832.        | 4033.5        |
| #3        | 2613.9        | 30375.        | 4062.3        |

Sample Name: CCV      Acquired: 3/4/2016 19:42:35      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |                |               |               |               |               |                |
|--------|----------------|---------------|---------------|---------------|---------------|----------------|
| Elem   | Al3961         | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181         |
| Line   | 396.152 { 85}  | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106}  |
| IS Ref | (Y_3710)       | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)       |
| Units  | ppb            | ppb           | ppb           | ppb           | ppb           | ppb            |
| Avg    | <b>128600.</b> | <b>2421.</b>  | <b>1217.</b>  | <b>10180.</b> | <b>1058.</b>  | <b>125700.</b> |
| Stddev | 322.           | 13.           | 2.            | 16.           | 3.            | 620.           |
| %RSD   | .2503          | .5442         | .1993         | .1529         | .2764         | .4929          |

|    |         |       |       |        |       |         |
|----|---------|-------|-------|--------|-------|---------|
| #1 | 128600. | 2410. | 1215. | 10200. | 1060. | 126000. |
| #2 | 128900. | 2418. | 1216. | 10170. | 1058. | 126200. |
| #3 | 128200. | 2436. | 1219. | 10180. | 1054. | 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    | <b>1271.</b>  | <b>2527.</b>  | <b>4912.</b>  | <b>12600.</b> | <b>99200.</b> | <b>52080.</b> |
| Stddev | 2.            | 2.            | 13.           | 18.           | 262.          | 232.          |
| %RSD   | .1482         | .0842         | .2600         | .1414         | .2642         | .4452         |

|    |       |       |       |        |        |        |
|----|-------|-------|-------|--------|--------|--------|
| #1 | 1273. | 2528. | 4904. | 12580. | 99020. | 52320. |
| #2 | 1270. | 2525. | 4927. | 12600. | 99500. | 52070. |
| #3 | 1270. | 2529. | 4905. | 12610. | 99080. | 51860. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>120300.</b> | <b>5154.</b>  | <b>127300.</b> | <b>2575.</b>  | <b>7376.</b>  | <b>1007.</b>  |
| Stddev | 306.           | 19.           | 82.            | 6.            | 28.           | 5.            |
| %RSD   | .2545          | .3722         | .0647          | .2511         | .3807         | .4983         |

|    |         |       |         |       |       |       |
|----|---------|-------|---------|-------|-------|-------|
| #1 | 119900. | 5161. | 127300. | 2582. | 7361. | 1004. |
| #2 | 120500. | 5169. | 127300. | 2572. | 7360. | 1004. |
| #3 | 120400. | 5133. | 127200. | 2570. | 7409. | 1012. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCV      Acquired: 3/4/2016 19:42:35      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2452.</b>  | <b>2507.</b>  | <b>2533.</b>  | <b>2525.</b>  | <b>974.7</b>  | <b>2539.</b>  |
| Stddev | 16.           | 4.            | 5.            | 6.            | 6.2           | 2.            |
| %RSD   | .6607         | .1611         | .1818         | .2238         | .6374         | .0914         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 2439. | 2508. | 2536. | 2524. | 970.1 | 2538. |
| #2 | 2448. | 2503. | 2537. | 2531. | 972.2 | 2537. |
| #3 | 2470. | 2511. | 2528. | 2520. | 981.8 | 2541. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>1021.</b>  | <b>5234.</b>  | <b>10010.</b> | <b>10050.</b> |
| Stddev | 3.            | 15.           | 7.            | 57.           |
| %RSD   | .3323         | .2855         | .0739         | .5657         |

|    |       |       |        |        |
|----|-------|-------|--------|--------|
| #1 | 1025. | 5249. | 10010. | 10010. |
| #2 | 1018. | 5234. | 10020. | 10040. |
| #3 | 1020. | 5219. | 10020. | 10120. |

|         |          |          |          |      |
|---------|----------|----------|----------|------|
| 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       | <b>2362.5</b> | <b>27483.</b> | <b>3747.4</b> |
| Stddev    | 13.9          | 323.          | 66.8          |
| %RSD      | .58810        | 1.1761        | 1.7832        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2356.3 | 27441. | 3720.0 |
| #2 | 2352.7 | 27183. | 3698.6 |
| #3 | 2378.4 | 27825. | 3823.5 |

Sample Name: CCVL      Acquired: 3/4/2016 19:50:14      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>225.2</b>  | <b>16.57</b>  | <b>9.959</b>  | <b>210.8</b>  | <b>2.261</b>  | <b>5229.</b>  |
| Stddev | 5.7           | 1.25          | .530          | .1            | .041          | 23.           |
| %RSD   | 2.522         | 7.546         | 5.326         | .0403         | 1.827         | .4396         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 226.6 | 15.15 | 10.57 | 210.9 | 2.309 | 5205. |
| #2 | 230.0 | 17.08 | 9.607 | 210.8 | 2.237 | 5231. |
| #3 | 218.9 | 17.49 | 9.701 | 210.8 | 2.238 | 5251. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4.362</b>  | <b>53.30</b>  | <b>10.58</b>  | <b>23.89</b>  | <b>168.7</b>  | <b>5187.</b>  |
| Stddev | .075          | .20           | .24           | .30           | 13.3          | 60.           |
| %RSD   | 1.727         | .3663         | 2.230         | 1.241         | 7.893         | 1.153         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 4.402 | 53.32 | 10.52 | 23.84 | 158.6 | 5149. |
| #2 | 4.275 | 53.48 | 10.38 | 24.21 | 183.8 | 5156. |
| #3 | 4.408 | 53.09 | 10.84 | 23.63 | 163.7 | 5256. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4982.</b>  | <b>16.56</b>  | <b>5165.</b>  | <b>43.34</b>  | <b>10.40</b>  | <b>19.48</b>  |
| Stddev | 24.           | .11           | 17.           | .34           | .67           | .88           |
| %RSD   | .4789         | .6580         | .3214         | .7951         | 6.419         | 4.506         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 4955. | 16.46 | 5183. | 42.97 | 11.17 | 20.40 |
| #2 | 5002. | 16.53 | 5160. | 43.65 | 10.05 | 19.39 |
| #3 | 4987. | 16.68 | 5151. | 43.40 | 9.975 | 18.65 |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCVL      Acquired: 3/4/2016 19:50:14      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 17.78         | 20.93         | 53.12         | 32.63         | 46.71         | 20.82         |
| Stddev | .87           | 1.11          | .24           | .25           | .80           | .12           |
| %RSD   | 4.899         | 5.289         | .4454         | .7803         | 1.714         | .5880         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 18.72 | 20.27 | 53.21 | 32.57 | 47.58 | 20.90 |
| #2 | 17.01 | 22.20 | 52.85 | 32.42 | 46.00 | 20.68 |
| #3 | 17.60 | 20.31 | 53.30 | 32.91 | 46.56 | 20.87 |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | 52.41         | 21.95         | 21.53         | F 5.742       |
| Stddev | .61           | .12           | .21           | 17.03         |
| %RSD   | 1.168         | .5280         | .9632         | 296.5         |

|    |       |       |       |        |
|----|-------|-------|-------|--------|
| #1 | 52.31 | 22.04 | 21.29 | 1.674  |
| #2 | 51.84 | 21.98 | 21.63 | 24.43  |
| #3 | 53.06 | 21.82 | 21.67 | -8.882 |

|         |          |          |          |          |
|---------|----------|----------|----------|----------|
| 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       | 2497.8        | 28543.        | 3884.1        |
| Stddev    | 27.5          | 39.           | 42.0          |
| %RSD      | 1.0994        | .13542        | 1.0823        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2499.7 | 28549. | 3931.0 |
| #2 | 2524.2 | 28501. | 3849.7 |
| #3 | 2469.4 | 28578. | 3871.6 |

Sample Name: 460-109542-E-25-A@4      Acquired: 3/4/2016 19:54:11      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |                |               |               |               |
|--------|---------------|---------------|----------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280         | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103}  | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)       | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb            | ppb           | ppb           | ppb           |
| Avg    | <b>51240.</b> | <b>7.542</b>  | <b>-1.1088</b> | <b>158.4</b>  | <b>2.359</b>  | <b>3509.</b>  |
| Stddev | 135.          | 1.234         | .2776          | .3            | .042          | 30.           |
| %RSD   | .2643         | 16.36         | 255.1          | .1653         | 1.799         | .8570         |

|    |               |              |               |              |              |              |
|----|---------------|--------------|---------------|--------------|--------------|--------------|
| #1 | <b>51400.</b> | <b>8.472</b> | <b>-.0910</b> | <b>158.3</b> | <b>2.394</b> | <b>3529.</b> |
| #2 | <b>51180.</b> | <b>6.143</b> | <b>-.3950</b> | <b>158.2</b> | <b>2.312</b> | <b>3524.</b> |
| #3 | <b>51150.</b> | <b>8.012</b> | <b>.1594</b>  | <b>158.7</b> | <b>2.372</b> | <b>3474.</b> |

|            |                 |                 |                 |                 |                 |                 |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Check ?    | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> |
| High Limit |                 |                 |                 |                 |                 |                 |
| Low Limit  |                 |                 |                 |                 |                 |                 |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-1.504</b> | <b>23.30</b>  | <b>86.49</b>  | <b>81.36</b>  | <b>66730.</b> | <b>3811.</b>  |
| Stddev | .102          | .28           | .47           | .41           | 90.           | 25.           |
| %RSD   | 6.776         | 1.199         | .5430         | .4991         | .1350         | .6449         |

|    |               |              |              |              |               |              |
|----|---------------|--------------|--------------|--------------|---------------|--------------|
| #1 | <b>-1.522</b> | <b>23.04</b> | <b>85.95</b> | <b>81.78</b> | <b>66680.</b> | <b>3835.</b> |
| #2 | <b>-1.596</b> | <b>23.26</b> | <b>86.75</b> | <b>81.34</b> | <b>66840.</b> | <b>3811.</b> |
| #3 | <b>-1.395</b> | <b>23.59</b> | <b>86.77</b> | <b>80.97</b> | <b>66680.</b> | <b>3786.</b> |

|            |                 |                 |                 |                 |                 |                 |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Check ?    | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> |
| High Limit |                 |                 |                 |                 |                 |                 |
| Low Limit  |                 |                 |                 |                 |                 |                 |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>10160.</b> | <b>261.3</b>  | <b>311.0</b>  | <b>89.30</b>  | <b>37.77</b>  | <b>-.4554</b> |
| Stddev | 64.           | .5            | 10.2          | .70           | 1.89          | .9832         |
| %RSD   | .6305         | .1820         | 3.278         | .7812         | 4.998         | 215.9         |

|    |               |              |              |              |              |               |
|----|---------------|--------------|--------------|--------------|--------------|---------------|
| #1 | <b>10230.</b> | <b>260.7</b> | <b>310.5</b> | <b>89.11</b> | <b>39.24</b> | <b>.3049</b>  |
| #2 | <b>10150.</b> | <b>261.7</b> | <b>321.5</b> | <b>90.07</b> | <b>35.64</b> | <b>-.1054</b> |
| #3 | <b>10100.</b> | <b>261.4</b> | <b>301.1</b> | <b>88.71</b> | <b>38.43</b> | <b>-1.566</b> |

|            |                 |                 |                 |                 |                 |                 |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Check ?    | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> |
| High Limit |                 |                 |                 |                 |                 |                 |
| Low Limit  |                 |                 |                 |                 |                 |                 |

Sample Name: 460-109542-E-25-A@4      Acquired: 3/4/2016 19:54:11      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-6180</b>  | <b>-4.842</b> | <b>136.8</b>  | <b>177.6</b>  | <b>6.975</b>  | <b>2.575</b>  |
| Stddev | 3.397         | 1.455         | .9            | .4            | .538          | .168          |
| %RSD   | 549.7         | 30.06         | .6700         | .2222         | 7.718         | 6.527         |
| #1     | .6112         | -3.440        | 135.8         | 177.4         | 7.426         | 2.734         |
| #2     | 1.993         | -6.345        | 137.3         | 177.3         | 6.379         | 2.592         |
| #3     | -4.458        | -4.741        | 137.4         | 178.0         | 7.120         | 2.400         |

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

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>3.684</b>  | <b>74.53</b>  | <b>1256.</b>  | <b>798.2</b>  |
| Stddev | 1.058         | .47           | 1.            | 14.6          |
| %RSD   | 28.73         | .6356         | .0971         | 1.830         |
| #1     | 4.351         | 75.04         | 1255.         | 783.8         |
| #2     | 4.237         | 74.44         | 1257.         | 797.7         |
| #3     | 2.463         | 74.10         | 1255.         | 813.0         |

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

| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
|-----------|---------------|---------------|---------------|
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2579.6</b> | <b>29611.</b> | <b>4029.4</b> |
| Stddev    | 2.2           | 29.           | 50.3          |
| %RSD      | .08650        | .09761        | 1.2479        |
| #1        | 2580.3        | 29599.        | 3971.5        |
| #2        | 2581.4        | 29644.        | 4055.4        |
| #3        | 2577.1        | 29590.        | 4061.4        |



Sample Name: 460-109610-C-10-C@4      Acquired: 3/4/2016 20:01:55      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>35870.</b> | <b>6.139</b>  | <b>-0.803</b> | <b>328.3</b>  | <b>2.227</b>  | <b>5440.</b>  |
| Stddev | 160.          | 1.383         | .1336         | 1.6           | .073          | 42.           |
| %RSD   | .4471         | 22.53         | 166.4         | .4728         | 3.279         | .7810         |
| #1     | 35820.        | 7.648         | -.1924        | 329.6         | 2.268         | 5404.         |
| #2     | 36050.        | 4.931         | -.1159        | 328.7         | 2.271         | 5487.         |
| #3     | 35750.        | 5.837         | .0675         | 326.6         | 2.143         | 5430.         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-1.978</b> | <b>29.84</b>  | <b>66.32</b>  | <b>48.37</b>  | <b>76750.</b> | <b>4355.</b>  |
| Stddev | .132          | .03           | .75           | .27           | 363.          | 28.           |
| %RSD   | 6.671         | .1031         | 1.129         | .5494         | .4724         | .6467         |
| #1     | -2.028        | 29.81         | 66.86         | 48.45         | 76440.        | 4374.         |
| #2     | -2.078        | 29.86         | 65.47         | 48.59         | 77150.        | 4368.         |
| #3     | -1.829        | 29.85         | 66.63         | 48.07         | 76660.        | 4323.         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>11030.</b> | <b>3330.</b>  | <b>3215.</b>  | <b>63.18</b>  | <b>40.57</b>  | <b>.0620</b>  |
| Stddev | 64.           | 11.           | 10.           | .20           | .69           | 1.874         |
| %RSD   | .5778         | .3378         | .3180         | .3219         | 1.692         | 3025.         |
| #1     | 10970.        | 3328.         | 3207.         | 63.41         | 39.97         | -1.027        |
| #2     | 11100.        | 3342.         | 3227.         | 63.04         | 41.32         | -1.013        |
| #3     | 11010.        | 3320.         | 3213.         | 63.08         | 40.42         | 2.226         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109610-C-10-C@4      Acquired: 3/4/2016 20:01:55      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>3.286</b>  | <b>-5.838</b> | <b>72.99</b>  | <b>172.6</b>  | <b>15.50</b>  | <b>2.369</b>  |
| Stddev | .700          | 1.992         | .30           | 1.0           | .04           | .072          |
| %RSD   | 21.30         | 34.13         | .4104         | .5899         | .2338         | 3.052         |
| #1     | 3.667         | -5.435        | 72.69         | 173.7         | 15.54         | 2.295         |
| #2     | 2.479         | -8.001        | 73.28         | 171.7         | 15.46         | 2.440         |
| #3     | 3.714         | -4.078        | 72.99         | 172.4         | 15.49         | 2.372         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>3.271</b>  | <b>32.77</b>  | <b>935.1</b>  | <b>932.0</b>  |
| Stddev | .844          | .21           | 1.1           | 34.4          |
| %RSD   | 25.79         | .6466         | .1173         | 3.689         |
| #1     | 2.622         | 32.55         | 936.1         | 944.4         |
| #2     | 2.966         | 32.79         | 934.0         | 893.1         |
| #3     | 4.224         | 32.97         | 935.2         | 958.4         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2548.0</b> | <b>28664.</b> | <b>3951.8</b> |
| Stddev    | 24.4          | 346.          | 98.7          |
| %RSD      | .95931        | 1.2061        | 2.4985        |
| #1        | 2522.1        | 28866.        | 4013.5        |
| #2        | 2570.6        | 28265.        | 3837.9        |
| #3        | 2551.5        | 28862.        | 4004.0        |

Sample Name: 460-109610-A-19-C@4      Acquired: 3/4/2016 20:05:53      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>40720.</b> | <b>5.270</b>  | <b>-.0785</b> | <b>222.9</b>  | <b>1.244</b>  | <b>8568.</b>  |
| Stddev | 167.          | .741          | .3642         | 1.2           | .227          | 6.            |
| %RSD   | .4098         | 14.07         | 464.1         | .5226         | 18.24         | .0695         |

|    |        |       |        |       |       |       |
|----|--------|-------|--------|-------|-------|-------|
| #1 | 40540. | 4.921 | -.1546 | 224.2 | 1.503 | 8562. |
| #2 | 40860. | 4.767 | -.3986 | 222.3 | 1.149 | 8568. |
| #3 | 40750. | 6.121 | .3178  | 222.1 | 1.080 | 8574. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-1.530</b> | <b>16.42</b>  | <b>69.56</b>  | <b>39.88</b>  | <b>54370.</b> | <b>2271.</b>  |
| Stddev | .171          | .09           | .33           | .33           | 25.           | 32.           |
| %RSD   | 11.14         | .5723         | .4801         | .8153         | .0467         | 1.406         |

|    |        |       |       |       |        |       |
|----|--------|-------|-------|-------|--------|-------|
| #1 | -1.591 | 16.35 | 69.73 | 40.23 | 54380. | 2251. |
| #2 | -1.662 | 16.38 | 69.77 | 39.82 | 54390. | 2308. |
| #3 | -1.338 | 16.53 | 69.17 | 39.59 | 54340. | 2254. |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>7167.</b>  | <b>552.7</b>  | <b>4252.</b>  | <b>33.87</b>  | <b>56.28</b>  | <b>1.360</b>  |
| Stddev | 13.           | .6            | 17.           | .41           | .54           | 1.078         |
| %RSD   | .1767         | .1128         | .4009         | 1.223         | .9635         | 79.31         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 7159. | 552.0 | 4246. | 33.87 | 56.33 | 1.570 |
| #2 | 7160. | 552.6 | 4271. | 34.28 | 55.72 | 2.318 |
| #3 | 7181. | 553.3 | 4238. | 33.45 | 56.80 | .1919 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109610-A-19-C@4      Acquired: 3/4/2016 20:05:53      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.207</b>  | <b>-4.779</b> | <b>89.33</b>  | <b>130.6</b>  | <b>5.014</b>  | <b>3.468</b>  |
| Stddev | .923          | 1.799         | .67           | .5            | .477          | .650          |
| %RSD   | 76.48         | 37.65         | .7503         | .4004         | 9.521         | 18.75         |
| #1     | .1446         | -5.380        | 88.56         | 130.5         | 5.120         | 3.651         |
| #2     | 1.662         | -2.756        | 89.78         | 130.1         | 4.493         | 2.746         |
| #3     | 1.813         | -6.201        | 89.66         | 131.1         | 5.430         | 4.008         |

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

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.611</b>  | <b>46.93</b>  | <b>818.0</b>  | <b>868.7</b>  |
| Stddev | .520          | .32           | 1.5           | 22.3          |
| %RSD   | 11.27         | .6895         | .1777         | 2.569         |
| #1     | 4.407         | 46.81         | 818.6         | 863.4         |
| #2     | 4.225         | 47.29         | 819.0         | 849.5         |
| #3     | 5.202         | 46.68         | 816.3         | 893.2         |

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       | <b>2477.6</b> | <b>28150.</b> | <b>3836.7</b> |
| Stddev    | 6.0           | 114.          | 46.3          |
| %RSD      | .24307        | .40435        | 1.2073        |
| #1        | 2484.0        | 28152.        | 3887.8        |
| #2        | 2476.8        | 28263.        | 3824.9        |
| #3        | 2472.0        | 28035.        | 3797.4        |

Sample Name: 460-109568-E-2-B@4      Acquired: 3/4/2016 20:13:40      Type: Unk

Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000

User: admin      Custom ID1:      Custom ID2:      Custom ID3:

Comment:

| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>6309.</b>  | <b>2.227</b>  | <b>-4.195</b> | <b>19.54</b>  | <b>.0837</b>  | <b>25.98</b>  |
| Stddev | 25.           | 1.641         | .2880         | .06           | .0759         | 8.82          |
| %RSD   | .3938         | 73.71         | 68.64         | .3111         | 90.68         | 33.93         |

|    |       |       |        |       |       |       |
|----|-------|-------|--------|-------|-------|-------|
| #1 | 6331. | 1.613 | -.3766 | 19.48 | .1669 | 19.36 |
| #2 | 6315. | 4.087 | -.1554 | 19.57 | .0660 | 22.60 |
| #3 | 6282. | .9809 | -.7266 | 19.59 | .0182 | 35.99 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>-.2074</b> | <b>.5292</b>  | <b>13.70</b>  | <b>1.503</b>  | <b>6566.</b>  | <b>226.3</b>  |
| Stddev | .1153         | .2246         | .18           | .524          | 10.           | 19.3          |
| %RSD   | 55.59         | 42.45         | 1.341         | 34.84         | .1479         | 8.545         |

|    |        |       |       |       |       |       |
|----|--------|-------|-------|-------|-------|-------|
| #1 | -.1148 | .6979 | 13.66 | 1.767 | 6563. | 243.0 |
| #2 | -.3365 | .2742 | 13.53 | 1.843 | 6577. | 205.1 |
| #3 | -.1708 | .6156 | 13.90 | .9002 | 6558. | 230.9 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>79.80</b>  | <b>3.752</b>  | <b>69.33</b>  | <b>5.358</b>  | <b>4.574</b>  | <b>1.155</b>  |
| Stddev | 2.24          | .071          | 9.18          | .183          | 1.379         | .405          |
| %RSD   | 2.808         | 1.899         | 13.23         | 3.417         | 30.16         | 35.08         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 82.38 | 3.670 | 71.57 | 5.163 | 5.133 | 1.160 |
| #2 | 78.29 | 3.792 | 77.18 | 5.385 | 5.586 | .7478 |
| #3 | 78.74 | 3.795 | 59.24 | 5.526 | 3.003 | 1.558 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109568-E-2-B@4      Acquired: 3/4/2016 20:13:40      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.4244</b>  | <b>-2.846</b> | <b>15.25</b>  | <b>5.244</b>  | <b>.8840</b>  | <b>3.539</b>  |
| Stddev | 3.392         | .550          | .60           | .208          | .0310         | .487          |
| %RSD   | 799.1         | 19.33         | 3.944         | 3.963         | 3.505         | 13.76         |
| #1     | 2.335         | -2.346        | 15.39         | 5.480         | .8861         | 3.991         |
| #2     | 2.430         | -2.756        | 15.77         | 5.163         | .9138         | 3.023         |
| #3     | -3.491        | -3.435        | 14.59         | 5.089         | .8520         | 3.603         |

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

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.421</b>  | <b>2.658</b>  | <b>92.66</b>  | <b>674.9</b>  |
| Stddev | .081          | .046          | .21           | 33.4          |
| %RSD   | 1.829         | 1.746         | .2279         | 4.950         |
| #1     | 4.514         | 2.622         | 92.43         | 656.2         |
| #2     | 4.376         | 2.642         | 92.84         | 654.9         |
| #3     | 4.372         | 2.710         | 92.72         | 713.4         |

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       | <b>2503.5</b> | <b>28765.</b> | <b>3881.9</b> |
| Stddev    | 16.1          | 466.          | 77.6          |
| %RSD      | .64326        | 1.6209        | 1.9990        |
| #1        | 2494.4        | 28378.        | 3815.3        |
| #2        | 2494.0        | 28634.        | 3863.3        |
| #3        | 2522.1        | 29282.        | 3967.1        |

Sample Name: 460-109568-E-4-B@4      Acquired: 3/4/2016 20:21:39      Type: Unk

Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000

User: admin      Custom ID1:      Custom ID2:      Custom ID3:

Comment:

| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>899.4</b>  | <b>.6499</b>  | <b>-.1936</b> | <b>4.896</b>  | <b>-.0039</b> | <b>-3.851</b> |
| Stddev | 19.8          | 1.503         | .4310         | .167          | .0915         | 2.424         |
| %RSD   | 2.201         | 231.3         | 222.7         | 3.418         | 2338.         | 62.95         |

|    |       |        |        |       |        |        |
|----|-------|--------|--------|-------|--------|--------|
| #1 | 898.2 | 1.627  | -.1684 | 4.705 | -.0216 | -5.081 |
| #2 | 919.7 | 1.404  | .2243  | 4.970 | -.0853 | -5.413 |
| #3 | 880.2 | -1.081 | -.6367 | 5.014 | .0951  | -1.058 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.0551</b> | <b>.1859</b>  | <b>6.337</b>  | <b>-1.591</b> | <b>813.1</b>  | <b>41.61</b>  |
| Stddev | .0529         | .1000         | .489          | .508          | 10.7          | 24.07         |
| %RSD   | 96.08         | 53.79         | 7.717         | 31.95         | 1.310         | 57.85         |

|    |        |       |       |        |       |       |
|----|--------|-------|-------|--------|-------|-------|
| #1 | -.1154 | .2794 | 6.554 | -1.091 | 805.6 | 18.82 |
| #2 | -.0336 | .0805 | 5.777 | -1.573 | 808.4 | 66.78 |
| #3 | -.0163 | .1977 | 6.679 | -2.107 | 825.3 | 39.22 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>17.94</b>  | <b>10.91</b>  | <b>36.46</b>  | <b>-.4545</b> | <b>6.460</b>  | <b>1.732</b>  |
| Stddev | 3.62          | .06           | 1.76          | .1631         | .428          | 1.697         |
| %RSD   | 20.20         | .5054         | 4.821         | 35.89         | 6.629         | 97.94         |

|    |       |       |       |        |       |       |
|----|-------|-------|-------|--------|-------|-------|
| #1 | 13.87 | 10.89 | 38.48 | -.2887 | 6.930 | 3.623 |
| #2 | 20.83 | 10.86 | 35.69 | -.4600 | 6.092 | 1.232 |
| #3 | 19.11 | 10.97 | 35.23 | -.6148 | 6.359 | .3423 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109568-E-4-B@4      Acquired: 3/4/2016 20:21:39      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.662</b> | <b>-3.784</b> | <b>4.923</b>  | <b>1.225</b>  | <b>.5509</b>  | <b>.7897</b>  |
| Stddev | 2.982         | 2.925         | .758          | .043          | .1712         | .1426         |
| %RSD   | 112.0         | 77.31         | 15.40         | 3.467         | 31.09         | 18.06         |
| #1     | -1.582        | -4.248        | 5.101         | 1.179         | .5536         | .7382         |
| #2     | -6.034        | -6.449        | 5.576         | 1.264         | .7207         | .6799         |
| #3     | -.3707        | -.6543        | 4.091         | 1.231         | .3783         | .9509         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>5.270</b>  | <b>1.433</b>  | <b>355.5</b>  | <b>403.3</b>  |
| Stddev | .911          | .031          | 1.2           | 9.7           |
| %RSD   | 17.29         | 2.140         | .3237         | 2.405         |
| #1     | 4.543         | 1.419         | 356.5         | 392.6         |
| #2     | 6.292         | 1.411         | 355.8         | 411.5         |
| #3     | 4.975         | 1.468         | 354.3         | 405.7         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |
| Low Limit  |          |          |          |          |

| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
|-----------|---------------|---------------|---------------|
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2478.7</b> | <b>28188.</b> | <b>3823.9</b> |
| Stddev    | 1.6           | 160.          | 45.4          |
| %RSD      | .06376        | .56643        | 1.1863        |
| #1        | 2480.5        | 28004.        | 3787.1        |
| #2        | 2477.8        | 28288.        | 3874.6        |
| #3        | 2477.8        | 28272.        | 3810.0        |



Sample Name: 460-109610-B-30-C@4      Acquired: 3/4/2016 20:09:47      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>61370.</b> | <b>9.992</b>  | <b>-3615</b>  | <b>195.4</b>  | <b>2.228</b>  | <b>3795.</b>  |
| Stddev | 120.          | .782          | .1960         | 1.1           | .096          | 21.           |
| %RSD   | .1960         | 7.824         | 54.20         | .5827         | 4.318         | .5448         |

|    |               |              |               |              |              |              |
|----|---------------|--------------|---------------|--------------|--------------|--------------|
| #1 | <b>61240.</b> | <b>10.31</b> | <b>-.4027</b> | <b>196.5</b> | <b>2.140</b> | <b>3790.</b> |
| #2 | <b>61470.</b> | <b>9.100</b> | <b>-.1483</b> | <b>195.4</b> | <b>2.331</b> | <b>3818.</b> |
| #3 | <b>61400.</b> | <b>10.56</b> | <b>-.5336</b> | <b>194.3</b> | <b>2.215</b> | <b>3778.</b> |

|            |                 |                 |                 |                 |                 |                 |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Check ?    | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> |
| High Limit |                 |                 |                 |                 |                 |                 |
| Low Limit  |                 |                 |                 |                 |                 |                 |

|        |               |               |               |               |                |               |
|--------|---------------|---------------|---------------|---------------|----------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714         | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124}  | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)       | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb            | ppb           |
| Avg    | <b>-2.623</b> | <b>32.60</b>  | <b>96.28</b>  | <b>55.60</b>  | <b>100400.</b> | <b>3284.</b>  |
| Stddev | .236          | .10           | .33           | .18           | 473.           | 11.           |
| %RSD   | 9.000         | .3009         | .3433         | .3216         | .4715          | .3310         |

|    |               |              |              |              |                |              |
|----|---------------|--------------|--------------|--------------|----------------|--------------|
| #1 | <b>-2.401</b> | <b>32.65</b> | <b>96.13</b> | <b>55.81</b> | <b>100200.</b> | <b>3285.</b> |
| #2 | <b>-2.871</b> | <b>32.67</b> | <b>96.04</b> | <b>55.48</b> | <b>100900.</b> | <b>3294.</b> |
| #3 | <b>-2.596</b> | <b>32.49</b> | <b>96.65</b> | <b>55.52</b> | <b>99960.</b>  | <b>3272.</b> |

|            |                 |                 |                 |                 |                 |                 |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Check ?    | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> |
| High Limit |                 |                 |                 |                 |                 |                 |
| Low Limit  |                 |                 |                 |                 |                 |                 |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>9155.</b>  | <b>1811.</b>  | <b>5568.</b>  | <b>56.92</b>  | <b>44.46</b>  | <b>2.084</b>  |
| Stddev | 26.           | 9.            | 18.           | .40           | .50           | 1.380         |
| %RSD   | .2800         | .4925         | .3285         | .7021         | 1.136         | 66.22         |

|    |              |              |              |              |              |              |
|----|--------------|--------------|--------------|--------------|--------------|--------------|
| #1 | <b>9165.</b> | <b>1803.</b> | <b>5576.</b> | <b>57.34</b> | <b>43.88</b> | <b>.8210</b> |
| #2 | <b>9174.</b> | <b>1821.</b> | <b>5581.</b> | <b>56.90</b> | <b>44.65</b> | <b>3.557</b> |
| #3 | <b>9126.</b> | <b>1809.</b> | <b>5547.</b> | <b>56.54</b> | <b>44.84</b> | <b>1.873</b> |

|            |                 |                 |                 |                 |                 |                 |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Check ?    | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> |
| High Limit |                 |                 |                 |                 |                 |                 |
| Low Limit  |                 |                 |                 |                 |                 |                 |

Sample Name: 460-109610-B-30-C@4      Acquired: 3/4/2016 20:09:47      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>5.393</b>  | <b>-7.431</b> | <b>142.7</b>  | <b>127.5</b>  | <b>6.244</b>  | <b>2.288</b>  |
| Stddev | 2.564         | 1.477         | .3            | .5            | .241          | .250          |
| %RSD   | 47.54         | 19.87         | .1760         | .4309         | 3.856         | 10.91         |
| #1     | 3.306         | -9.029        | 142.8         | 127.3         | 6.500         | 2.364         |
| #2     | 8.255         | -7.146        | 142.9         | 128.2         | 6.022         | 2.491         |
| #3     | 4.618         | -6.117        | 142.4         | 127.1         | 6.208         | 2.010         |

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

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.232</b>  | <b>34.51</b>  | <b>1588.</b>  | <b>929.9</b>  |
| Stddev | 1.345         | .15           | 5.            | 37.3          |
| %RSD   | 31.78         | .4301         | .3229         | 4.016         |
| #1     | 4.171         | 34.63         | 1591.         | 965.4         |
| #2     | 5.607         | 34.56         | 1592.         | 933.3         |
| #3     | 2.919         | 34.34         | 1582.         | 890.9         |

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       | <b>2498.7</b> | <b>28438.</b> | <b>3834.7</b> |
| Stddev    | 14.9          | 332.          | 41.1          |
| %RSD      | .59650        | 1.1674        | 1.0711        |
| #1        | 2499.2        | 28819.        | 3879.0        |
| #2        | 2483.5        | 28210.        | 3827.2        |
| #3        | 2513.3        | 28284.        | 3797.9        |

Sample Name: 460-109568-E-5-B@4      Acquired: 3/4/2016 20:25:41      Type: Unk

Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000

User: admin      Custom ID1:      Custom ID2:      Custom ID3:

Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>3591.</b>  | <b>-.0328</b> | <b>-.1089</b> | <b>11.68</b>  | <b>.1307</b>  | <b>89.51</b>  |
| Stddev | 20.           | 1.685         | .4319         | .14           | .0942         | 9.08          |
| %RSD   | .5693         | 5136.         | 396.7         | 1.195         | 72.07         | 10.14         |

|    |       |        |        |       |       |       |
|----|-------|--------|--------|-------|-------|-------|
| #1 | 3584. | -1.393 | -.6007 | 11.84 | .0365 | 97.92 |
| #2 | 3614. | -.5584 | .0652  | 11.60 | .2248 | 79.89 |
| #3 | 3575. | 1.853  | .2088  | 11.61 | .1308 | 90.73 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.0771</b> | <b>.5637</b>  | <b>5.744</b>  | <b>-1.506</b> | <b>3554.</b>  | <b>88.83</b>  |
| Stddev | .0790         | .2049         | .416          | .242          | 16.           | 37.77         |
| %RSD   | 102.4         | 36.36         | 7.242         | 16.06         | .4421         | 42.53         |

|    |        |       |       |        |       |       |
|----|--------|-------|-------|--------|-------|-------|
| #1 | -.1300 | .7609 | 6.037 | -1.330 | 3541. | 128.8 |
| #2 | .0137  | .5785 | 5.928 | -1.406 | 3549. | 53.70 |
| #3 | -.1151 | .3518 | 5.268 | -1.782 | 3571. | 84.00 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>116.8</b>  | <b>7.420</b>  | <b>11.21</b>  | <b>1.857</b>  | <b>2.246</b>  | <b>1.366</b>  |
| Stddev | 2.8           | .025          | 9.97          | .409          | .845          | .728          |
| %RSD   | 2.437         | .3356         | 88.91         | 22.04         | 37.62         | 53.31         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 118.6 | 7.398 | 22.71 | 1.963 | 1.635 | .6243 |
| #2 | 113.5 | 7.414 | 5.908 | 1.405 | 3.210 | 2.080 |
| #3 | 118.3 | 7.447 | 5.018 | 2.203 | 1.892 | 1.394 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109568-E-5-B@4      Acquired: 3/4/2016 20:25:41      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.352</b> | <b>-3.052</b> | <b>5.501</b>  | <b>3.383</b>  | <b>.5103</b>  | <b>.3291</b>  |
| Stddev | .911          | 2.315         | .266          | .309          | .5670         | .4639         |
| %RSD   | 38.73         | 75.87         | 4.830         | 9.119         | 111.1         | 141.0         |
| #1     | -1.582        | -4.823        | 5.601         | 3.114         | .0273         | .1834         |
| #2     | -3.357        | -3.900        | 5.703         | 3.316         | 1.134         | .8483         |
| #3     | -2.115        | -.4319        | 5.200         | 3.720         | .3690         | -.0444        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>5.341</b>  | <b>2.299</b>  | <b>72.28</b>  | <b>565.8</b>  |
| Stddev | 1.125         | .080          | .44           | 21.6          |
| %RSD   | 21.07         | 3.464         | .6057         | 3.826         |
| #1     | 5.164         | 2.207         | 71.85         | 586.7         |
| #2     | 4.314         | 2.337         | 72.25         | 567.2         |
| #3     | 6.544         | 2.352         | 72.73         | 543.5         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2423.1</b> | <b>27617.</b> | <b>3628.7</b> |
| Stddev    | 6.4           | 142.          | 19.7          |
| %RSD      | .26393        | .51517        | .54348        |
| #1        | 2418.8        | 27456.        | 3644.1        |
| #2        | 2420.0        | 27726.        | 3635.5        |
| #3        | 2430.4        | 27669.        | 3606.5        |

Sample Name: CCB      Acquired: 3/4/2016 20:37:21      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>6.776</b>  | <b>2.600</b>  | <b>-.2951</b> | <b>.7310</b>  | <b>.1643</b>  | <b>-48.51</b> |
| Stddev | 9.250         | 1.765         | .2451         | .5497         | .1139         | 4.47          |
| %RSD   | 136.5         | 67.90         | 83.06         | 75.20         | 69.34         | 9.218         |

|    |       |       |        |       |       |        |
|----|-------|-------|--------|-------|-------|--------|
| #1 | .6092 | .9974 | -.0122 | .6368 | .1392 | -49.38 |
| #2 | 2.308 | 2.309 | -.4452 | 1.322 | .0650 | -52.49 |
| #3 | 17.41 | 4.492 | -.4277 | .2344 | .2887 | -43.67 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.1795</b>  | <b>.7662</b>  | <b>.7160</b>  | <b>-.8357</b> | <b>11.23</b>  | <b>-17.60</b> |
| Stddev | .0701         | .2782         | .6729         | .7407         | 6.66          | 20.23         |
| %RSD   | 39.05         | 36.32         | 93.98         | 88.63         | 59.34         | 114.9         |

|    |       |       |       |        |       |        |
|----|-------|-------|-------|--------|-------|--------|
| #1 | .1617 | .5556 | .4849 | -.0191 | 12.53 | -27.73 |
| #2 | .2568 | 1.082 | .1891 | -1.024 | 17.14 | 5.695  |
| #3 | .1201 | .6613 | 1.474 | -1.464 | 4.010 | -30.77 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4.638</b>  | <b>.3710</b>  | <b>7.788</b>  | <b>-1.006</b> | <b>.3903</b>  | <b>1.103</b>  |
| Stddev | .646          | .0567         | 12.05         | .365          | .3148         | 1.309         |
| %RSD   | 13.92         | 15.29         | 154.7         | 36.23         | 80.67         | 118.7         |

|    |       |       |        |        |       |       |
|----|-------|-------|--------|--------|-------|-------|
| #1 | 4.370 | .4147 | 16.36  | -.8006 | .2783 | .3620 |
| #2 | 4.169 | .3912 | -5.984 | -.7909 | .7458 | .3326 |
| #3 | 5.374 | .3069 | 12.98  | -1.427 | .1468 | 2.615 |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: CCB      Acquired: 3/4/2016 20:37:21      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | -1.564        | -1.097        | .7390         | .3503         | .5958         | 1.029         |
| Stddev | 1.691         | .989          | .5380         | .4230         | .3068         | .372          |
| %RSD   | 108.1         | 90.16         | 72.80         | 120.8         | 51.50         | 36.16         |
| #1     | -3.019        | -.2762        | .7996         | .4016         | .9080         | 1.346         |
| #2     | .2916         | -.8199        | .1733         | .7452         | .5846         | 1.122         |
| #3     | -1.964        | -2.195        | 1.244         | -.0961        | .2947         | .6192         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | 1.307         | .5376         | 1.164         | 24.11         |
| Stddev | .952          | .0747         | .201          | 23.03         |
| %RSD   | 72.88         | 13.89         | 17.30         | 95.51         |
| #1     | 1.657         | .6103         | 1.226         | 49.91         |
| #2     | .2287         | .5415         | 1.327         | 16.80         |
| #3     | 2.034         | .4611         | .9389         | 5.625         |

|            |          |          |          |      |
|------------|----------|----------|----------|------|
| 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       | 2444.0        | 27723.        | 3713.5        |
| Stddev    | 36.6          | 358.          | 128.6         |
| %RSD      | 1.4976        | 1.2914        | 3.4627        |
| #1        | 2486.2        | 28091.        | 3827.2        |
| #2        | 2420.9        | 27375.        | 3739.5        |
| #3        | 2424.8        | 27704.        | 3573.9        |

Sample Name: 460-109572-E-1-B@4      Acquired: 3/4/2016 20:49:25      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>3249.</b>  | <b>1.031</b>  | <b>-.3332</b> | <b>14.27</b>  | <b>.2060</b>  | <b>35.96</b>  |
| Stddev | 15.           | 2.156         | .6013         | .09           | .0586         | 3.08          |
| %RSD   | .4638         | 209.0         | 180.5         | .6405         | 28.45         | 8.550         |
| #1     | 3253.         | 3.223         | .2420         | 14.37         | .2020         | 38.61         |
| #2     | 3261.         | -1.086        | -.9576        | 14.19         | .2666         | 32.59         |
| #3     | 3232.         | .9570         | -.2840        | 14.25         | .1495         | 36.67         |

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

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-.0432</b> | <b>1.828</b>  | <b>5.511</b>  | <b>-1.709</b> | <b>2427.</b>  | <b>109.2</b>  |
| Stddev | .0536         | .232          | .278          | .727          | 16.           | 23.7          |
| %RSD   | 124.0         | 12.70         | 5.041         | 42.54         | .6423         | 21.66         |
| #1     | -.1023        | 1.727         | 5.830         | -2.452        | 2409.         | 87.22         |
| #2     | .0023         | 1.664         | 5.377         | -.9989        | 2437.         | 106.2         |
| #3     | -.0297        | 2.094         | 5.325         | -1.676        | 2435.         | 134.3         |

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    | <b>129.4</b>  | <b>24.79</b>  | <b>36.09</b>  | <b>2.088</b>  | <b>2.899</b>  | <b>.6989</b>  |
| Stddev | 3.0           | .19           | 8.14          | .366          | .928          | .4568         |
| %RSD   | 2.340         | .7599         | 22.55         | 17.51         | 32.03         | 65.36         |
| #1     | 127.5         | 24.74         | 41.36         | 1.674         | 1.969         | 1.130         |
| #2     | 127.9         | 24.99         | 40.19         | 2.225         | 3.826         | .7460         |
| #3     | 132.9         | 24.62         | 26.72         | 2.365         | 2.903         | .2204         |

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

Sample Name: 460-109572-E-1-B@4      Acquired: 3/4/2016 20:49:25      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-2.200</b> | <b>-2.831</b> | <b>5.739</b>  | <b>3.085</b>  | <b>1.252</b>  | <b>.3345</b>  |
| Stddev | 1.077         | 1.851         | .138          | .079          | .061          | .2526         |
| %RSD   | 48.94         | 65.39         | 2.408         | 2.565         | 4.883         | 75.50         |
| #1     | -3.437        | -3.544        | 5.898         | 3.003         | 1.224         | .3439         |
| #2     | -1.699        | -.7293        | 5.656         | 3.161         | 1.323         | .5823         |
| #3     | -1.466        | -4.220        | 5.662         | 3.092         | 1.210         | .0774         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.081</b>  | <b>1.933</b>  | <b>67.81</b>  | <b>554.1</b>  |
| Stddev | .630          | .157          | .41           | 11.3          |
| %RSD   | 15.44         | 8.093         | .6064         | 2.047         |
| #1     | 3.457         | 1.995         | 67.34         | 543.4         |
| #2     | 4.717         | 2.050         | 68.07         | 552.9         |
| #3     | 4.068         | 1.756         | 68.03         | 566.0         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |
| Low Limit  |          |          |          |          |

| Int. Std. | Y_2243        | Y_3600        | Y_3710        |
|-----------|---------------|---------------|---------------|
| Line      | 224.306 {450} | 360.073 { 94} | 371.030 { 91} |
| Units     | Cts/S         | Cts/S         | Cts/S         |
| Avg       | <b>2530.2</b> | <b>29045.</b> | <b>3861.2</b> |
| Stddev    | 16.4          | 432.          | 42.6          |
| %RSD      | .64933        | 1.4873        | 1.1044        |
| #1        | 2538.8        | 29472.        | 3899.9        |
| #2        | 2540.6        | 28609.        | 3815.5        |
| #3        | 2511.3        | 29053.        | 3868.3        |



Sample Name: CCV      Acquired: 3/4/2016 21:01:24      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 129500.       | 2403.         | 1217.         | 10290.        | 1071.         | 127900.       |
| Stddev | 87.           | 8.            | 3.            | 7.            | 4.            | 295.          |
| %RSD   | .0668         | .3395         | .2612         | .0689         | .3441         | .2309         |

|    |         |       |       |        |       |         |
|----|---------|-------|-------|--------|-------|---------|
| #1 | 129400. | 2394. | 1220. | 10280. | 1066. | 128000. |
| #2 | 129500. | 2410. | 1216. | 10290. | 1073. | 128100. |
| #3 | 129500. | 2404. | 1214. | 10290. | 1073. | 127500. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 1281.         | 2528.         | 4890.         | 12560.        | 99630.        | 52950.        |
| Stddev | 3.            | 6.            | 4.            | 14.           | 138.          | 163.          |
| %RSD   | .2420         | .2216         | .0851         | .1083         | .1386         | .3077         |

|    |       |       |       |        |        |        |
|----|-------|-------|-------|--------|--------|--------|
| #1 | 1278. | 2522. | 4885. | 12580. | 99790. | 52780. |
| #2 | 1282. | 2530. | 4892. | 12560. | 99550. | 53100. |
| #3 | 1284. | 2532. | 4892. | 12560. | 99550. | 52970. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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.       | 5173.         | 128800.       | 2596.         | 7356.         | 1004.         |
| Stddev | 332.          | 10.           | 276.          | 8.            | 16.           | 9.            |
| %RSD   | .2749         | .1862         | .2143         | .3012         | .2180         | .9109         |

|    |         |       |         |       |       |       |
|----|---------|-------|---------|-------|-------|-------|
| #1 | 121000. | 5162. | 129100. | 2587. | 7339. | 998.7 |
| #2 | 120400. | 5175. | 128800. | 2602. | 7359. | 1015. |
| #3 | 120400. | 5181. | 128600. | 2600. | 7371. | 999.2 |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCV      Acquired: 3/4/2016 21:01:24      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 2435.         | 2506.         | 2538.         | 2545.         | 966.3         | 2555.         |
| Stddev | 16.           | 1.            | 5.            | 17.           | 4.8           | 5.            |
| %RSD   | .6596         | .0593         | .2035         | .6787         | .4955         | .2012         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 2416. | 2505. | 2533. | 2528. | 964.4 | 2549. |
| #2 | 2445. | 2507. | 2543. | 2544. | 971.8 | 2559. |
| #3 | 2443. | 2504. | 2539. | 2562. | 962.8 | 2556. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | 1032.         | 5331.         | 9998.         | 9923.         |
| Stddev | 2.            | 12.           | 5.            | 121.          |
| %RSD   | .1939         | .2277         | .0490         | 1.219         |

|    |       |       |        |        |
|----|-------|-------|--------|--------|
| #1 | 1031. | 5323. | 9993.  | 9787.  |
| #2 | 1035. | 5345. | 10000. | 9966.  |
| #3 | 1032. | 5325. | 10000. | 10020. |

|         |          |          |          |      |
|---------|----------|----------|----------|------|
| 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       | 2351.0        | 27374.        | 3657.7        |
| Stddev    | 35.1          | 86.           | 32.6          |
| %RSD      | 1.4916        | .31361        | .89263        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2384.3 | 27442. | 3683.7 |
| #2 | 2354.4 | 27402. | 3668.4 |
| #3 | 2314.4 | 27278. | 3621.1 |

Sample Name: CCV      Acquired: 3/4/2016 22:02:01      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 132400.       | 2392.         | 1158.         | 10230.        | F 1111.       | 116700.       |
| Stddev | 137.          | 31.           | 9.            | 103.          | 1.            | 1021.         |
| %RSD   | .1033         | 1.291         | .8074         | 1.009         | .0742         | .8747         |

|    |         |       |       |        |       |         |
|----|---------|-------|-------|--------|-------|---------|
| #1 | 132400. | 2428. | 1168. | 10350. | 1110. | 117900. |
| #2 | 132300. | 2374. | 1149. | 10170. | 1111. | 115800. |
| #3 | 132600. | 2374. | 1157. | 10170. | 1112. | 116500. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Fail | Chk Pass |
| Value   |          |          |          |          | 1000.    |          |
| Range   |          |          |          |          | 10.50%   |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| 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    | 1276.         | 2591.         | 4743.         | 12960.        | 94870.        | 51800.        |
| Stddev | 14.           | 28.           | 30.           | 122.          | 726.          | 159.          |
| %RSD   | 1.129         | 1.078         | .6223         | .9433         | .7654         | .3071         |

|    |       |       |       |        |        |        |
|----|-------|-------|-------|--------|--------|--------|
| #1 | 1293. | 2624. | 4777. | 13110. | 95700. | 51630. |
| #2 | 1267. | 2577. | 4721. | 12900. | 94340. | 51800. |
| #3 | 1268. | 2574. | 4731. | 12890. | 94580. | 51950. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | 112100.       | 5227.         | 126100.       | 2637.         | 7326.         | 1027.         |
| Stddev | 780.          | 48.           | 191.          | 29.           | 70.           | 16.           |
| %RSD   | .6960         | .9116         | .1514         | 1.106         | .9527         | 1.510         |

|    |         |       |         |       |       |       |
|----|---------|-------|---------|-------|-------|-------|
| #1 | 112900. | 5282. | 126300. | 2671. | 7407. | 1045. |
| #2 | 111300. | 5200. | 126000. | 2620. | 7286. | 1020. |
| #3 | 112000. | 5200. | 126100. | 2620. | 7286. | 1017. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCV      Acquired: 3/4/2016 22:02:01      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2494.</b>  | <b>2504.</b>  | <b>2547.</b>  | <b>2499.</b>  | <b>994.3</b>  | <b>2578.</b>  |
| Stddev | 35.           | 24.           | 26.           | 23.           | 10.0          | 25.           |
| %RSD   | 1.414         | .9750         | 1.005         | .9110         | 1.007         | .9532         |
| #1     | 2534.         | 2532.         | 2576.         | 2525.         | 1006.         | 2606.         |
| #2     | 2479.         | 2492.         | 2532.         | 2485.         | 988.8         | 2566.         |
| #3     | 2468.         | 2488.         | 2531.         | 2486.         | 988.3         | 2562.         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>1031.</b>  | <b>5181.</b>  | <b>9920.</b>  | <b>10460.</b> |
| Stddev | 11.           | 6.            | 75.           | 142.          |
| %RSD   | 1.060         | .1186         | .7552         | 1.359         |
| #1     | 1044.         | 5174.         | 10010.        | 10300.        |
| #2     | 1025.         | 5185.         | 9884.         | 10580.        |
| #3     | 1025.         | 5183.         | 9870.         | 10490.        |

|         |          |          |          |      |
|---------|----------|----------|----------|------|
| 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       | <b>2369.8</b> | <b>28935.</b> | <b>3668.3</b> |
| Stddev    | 17.0          | 253.          | 67.0          |
| %RSD      | .71925        | .87523        | 1.8254        |
| #1        | 2351.0        | 28708.        | 3596.0        |
| #2        | 2384.1        | 29208.        | 3728.2        |
| #3        | 2374.4        | 28891.        | 3680.7        |

Sample Name: CCB      Acquired: 3/4/2016 22:05:29      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>3.513</b>  | <b>3.453</b>  | <b>-.2122</b> | <b>.1774</b>  | <b>-.1792</b> | <b>-53.57</b> |
| Stddev | 17.12         | 2.501         | .4447         | .2052         | .0158         | 7.04          |
| %RSD   | 487.2         | 72.44         | 209.6         | 115.7         | 8.842         | 13.14         |
| #1     | -16.13        | .6864         | .0967         | .1561         | -.1717        | -47.98        |
| #2     | 15.26         | 4.119         | -.0114        | .3924         | -.1974        | -61.47        |
| #3     | 11.41         | 5.555         | -.7220        | -.0164        | -.1685        | -51.25        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.1500</b>  | <b>.0152</b>  | <b>.7570</b>  | <b>-4.870</b> | <b>4.537</b>  | <b>-38.75</b> |
| Stddev | .0590         | .3028         | .1894         | .512          | 5.250         | 45.39         |
| %RSD   | 39.30         | 1995.         | 25.02         | 10.51         | 115.7         | 117.2         |
| #1     | .1271         | -.0201        | .9750         | -5.136        | 8.347         | 12.13         |
| #2     | .2170         | .3341         | .6640         | -4.280        | 6.717         | -53.28        |
| #3     | .1060         | -.2684        | .6321         | -5.194        | -1.452        | -75.10        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| 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    | <b>.2693</b>  | <b>.3772</b>  | <b>.8389</b>  | <b>-.5449</b> | <b>.9202</b>  | <b>.7958</b>  |
| Stddev | 3.582         | .1197         | 16.26         | .3978         | 1.225         | 2.132         |
| %RSD   | 1330.         | 31.74         | 1939.         | 73.00         | 133.1         | 267.9         |
| #1     | 2.662         | .2739         | 18.59         | -.4927        | -.1412        | -1.353        |
| #2     | 1.996         | .5085         | -2.742        | -.1758        | .6417         | 2.911         |
| #3     | -3.850        | .3492         | -13.34        | -.9663        | 2.260         | .8296         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: CCB      Acquired: 3/4/2016 22:05:29      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.377</b>  | <b>.9626</b>  | <b>.2022</b>  | <b>.0244</b>  | <b>.8182</b>  | <b>1.230</b>  |
| Stddev | 1.701         | 1.702         | .3881         | .1457         | .4545         | .640          |
| %RSD   | 123.5         | 176.8         | 192.0         | 598.4         | 55.56         | 52.01         |
| #1     | .0733         | .4584         | -.0831        | .0479         | .6854         | 1.968         |
| #2     | .7577         | -.4301        | .6442         | .1569         | 1.324         | .8991         |
| #3     | 3.301         | 2.860         | .0455         | -.1317        | .4448         | .8239         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
|--------|---------------|---------------|---------------|---------------|
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.6550</b>  | <b>.2370</b>  | <b>.7873</b>  | <b>8.816</b>  |
| Stddev | .3634         | .0462         | .2393         | 12.88         |
| %RSD   | 55.47         | 19.49         | 30.40         | 146.1         |
| #1     | 1.012         | .1840         | .8669         | 22.14         |
| #2     | .2853         | .2685         | .9767         | 7.887         |
| #3     | .6682         | .2585         | .5183         | -3.574        |

|            |          |          |          |      |
|------------|----------|----------|----------|------|
| 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       | <b>2446.6</b> | <b>29501.</b> | <b>3668.5</b> |
| Stddev    | 27.8          | 384.          | 105.8         |
| %RSD      | 1.1362        | 1.3008        | 2.8833        |
| #1        | 2440.1        | 29715.        | 3773.5        |
| #2        | 2422.7        | 29058.        | 3670.2        |
| #3        | 2477.1        | 29729.        | 3561.9        |

Sample Name: CCVL      Acquired: 3/4/2016 22:09:22      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>213.8</b>  | <b>15.03</b>  | <b>8.916</b>  | <b>206.9</b>  | <b>1.884</b>  | <b>4723.</b>  |
| Stddev | 49.2          | 1.62          | .307          | .4            | .326          | 40.           |
| %RSD   | 23.03         | 10.79         | 3.439         | .1961         | 17.32         | .8473         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 160.9 | 15.16 | 8.627 | 206.7 | 1.516 | 4679. |
| #2 | 222.0 | 13.34 | 9.238 | 207.4 | 1.998 | 4733. |
| #3 | 258.3 | 16.58 | 8.882 | 206.7 | 2.137 | 4758. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4.324</b>  | <b>53.19</b>  | <b>10.75</b>  | <b>19.92</b>  | <b>149.2</b>  | <b>4620.</b>  |
| Stddev | .108          | .27           | .53           | .12           | 14.6          | 931.          |
| %RSD   | 2.503         | .5094         | 4.889         | .6029         | 9.822         | 20.16         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 4.407 | 53.31 | 10.17 | 20.03 | 166.1 | 3545. |
| #2 | 4.202 | 52.88 | 10.88 | 19.79 | 140.7 | 5149. |
| #3 | 4.365 | 53.39 | 11.19 | 19.94 | 140.7 | 5167. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | <b>4461.</b>  | <b>16.39</b>  | <b>4494.</b>  | <b>43.20</b>  | <b>9.898</b>  | <b>20.38</b>  |
| Stddev | 14.           | .05           | 891.          | .13           | 2.292         | .73           |
| %RSD   | .3047         | .2948         | 19.82         | .3045         | 23.15         | 3.584         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 4449. | 16.34 | 3466. | 43.21 | 8.228 | 19.97 |
| #2 | 4459. | 16.39 | 4983. | 43.06 | 8.956 | 21.22 |
| #3 | 4476. | 16.43 | 5033. | 43.32 | 12.51 | 19.93 |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCVL      Acquired: 3/4/2016 22:09:22      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 16.54         | 21.45         | 52.19         | 31.57         | 46.40         | 20.42         |
| Stddev | 5.25          | .56           | .13           | .46           | .45           | .44           |
| %RSD   | 31.76         | 2.603         | .2466         | 1.465         | .9794         | 2.159         |
| #1     | 22.52         | 21.13         | 52.31         | 31.33         | 46.33         | 20.91         |
| #2     | 12.64         | 22.09         | 52.05         | 32.11         | 46.88         | 20.28         |
| #3     | 14.47         | 21.13         | 52.21         | 31.29         | 45.98         | 20.07         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | 51.67         | 19.30         | 20.22         | F 28.17       |
| Stddev | .44           | 3.87          | .12           | 14.63         |
| %RSD   | .8511         | 20.05         | .5987         | 51.94         |
| #1     | 52.11         | 14.83         | 20.12         | 29.24         |
| #2     | 51.23         | 21.63         | 20.35         | 42.24         |
| #3     | 51.68         | 21.43         | 20.19         | 13.03         |

|         |          |          |          |          |
|---------|----------|----------|----------|----------|
| 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       | 2478.9        | 29571.        | 3750.3        |
| Stddev    | 10.6          | 323.          | 119.8         |
| %RSD      | .42753        | 1.0936        | 3.1947        |
| #1        | 2468.9        | 29853.        | 3886.3        |
| #2        | 2477.8        | 29641.        | 3704.5        |
| #3        | 2490.1        | 29218.        | 3660.2        |



Sample Name: CCV      Acquired: 3/4/2016 22:16:57      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Al3961          | As1890        | Ag3280        | Ba2335        | Be3130          | Ca3181         |
|--------|-----------------|---------------|---------------|---------------|-----------------|----------------|
| Line   | 396.152 { 85}   | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108}   | 318.128 {106}  |
| IS Ref | (Y_3710)        | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)        | (Y_3600)       |
| Units  | ppb             | ppb           | ppb           | ppb           | ppb             | ppb            |
| Avg    | <b>^F *****</b> | <b>2353.</b>  | <b>1172.</b>  | <b>10300.</b> | <b>^F *****</b> | <b>124700.</b> |
| Stddev | -----           | 9.            | 5.            | 26.           | -----           | 1459.          |
| %RSD   | -----           | .3936         | .4219         | .2527         | -----           | 1.170          |

|    |                |              |              |               |                |                |
|----|----------------|--------------|--------------|---------------|----------------|----------------|
| #1 | <b>^ -----</b> | <b>2349.</b> | <b>1166.</b> | <b>10280.</b> | <b>^ -----</b> | <b>123100.</b> |
| #2 | <b>132700.</b> | <b>2346.</b> | <b>1173.</b> | <b>10290.</b> | <b>1120.</b>   | <b>124900.</b> |
| #3 | <b>132600.</b> | <b>2363.</b> | <b>1175.</b> | <b>10330.</b> | <b>1115.</b>   | <b>126000.</b> |

|         |                 |                 |                 |                 |                 |                 |
|---------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Check ? | <b>Chk Fail</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Fail</b> | <b>Chk Pass</b> |
| Value   | <b>125000.</b>  |                 |                 |                 | <b>1000.</b>    |                 |
| Range   | <b>-10.50%</b>  |                 |                 |                 | <b>-10.50%</b>  |                 |

| Elem   | Cd2265        | Co2286        | Cr2677         | Cu3247          | Fe2714          | K_7664          |
|--------|---------------|---------------|----------------|-----------------|-----------------|-----------------|
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126}  | 324.754 {104}   | 271.441 {124}   | 766.490 { 44}   |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)       | (Y_3600)        | (Y_3600)        | (Y_3710)        |
| Units  | ppb           | ppb           | ppb            | ppb             | ppb             | ppb             |
| Avg    | <b>1288.</b>  | <b>2551.</b>  | <b>k 4751.</b> | <b>k 12640.</b> | <b>k 96510.</b> | <b>^F *****</b> |
| Stddev | 4.            | 7.            | 41.            | 14.             | 795.            | -----           |
| %RSD   | .3325         | .2618         | .8527          | .1123           | .8240           | -----           |

|    |              |              |                |                 |                 |                |
|----|--------------|--------------|----------------|-----------------|-----------------|----------------|
| #1 | <b>1284.</b> | <b>2548.</b> | <b>k 4709.</b> | <b>k 12630.</b> | <b>k 95650.</b> | <b>^ -----</b> |
| #2 | <b>1290.</b> | <b>2547.</b> | <b>4754.</b>   | <b>12660.</b>   | <b>96670.</b>   | <b>54080.</b>  |
| #3 | <b>1292.</b> | <b>2559.</b> | <b>4790.</b>   | <b>12640.</b>   | <b>97220.</b>   | <b>53880.</b>  |

|         |                 |                 |                 |                 |                 |                 |
|---------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Check ? | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Fail</b> |
| Value   |                 |                 |                 |                 |                 | <b>50000.</b>   |
| Range   |                 |                 |                 |                 |                 | <b>-10.50%</b>  |

| Elem   | Mg2790           | Mn2576         | Na5895          | Ni2316         | Pb2203         | Sb2068         |
|--------|------------------|----------------|-----------------|----------------|----------------|----------------|
| Line   | 279.079 {121}    | 257.610 {131}  | 589.592 { 57}   | 231.604 {446}  | 220.353 {453}  | 206.833 {463}  |
| IS Ref | (Y_3600)         | (Y_3600)       | (Y_3710)        | (Y_2243)       | (Y_2243)       | (Y_2243)       |
| Units  | ppb              | ppb            | ppb             | ppb            | ppb            | ppb            |
| Avg    | <b>k 114600.</b> | <b>k 5238.</b> | <b>^F *****</b> | <b>k 2644.</b> | <b>k 7252.</b> | <b>k 1017.</b> |
| Stddev | 1089.            | 35.            | -----           | 9.             | 13.            | 11.            |
| %RSD   | .9499            | .6588          | -----           | .3561          | .1757          | 1.038          |

|    |                  |                |                |                |                |                |
|----|------------------|----------------|----------------|----------------|----------------|----------------|
| #1 | <b>k 113400.</b> | <b>k 5204.</b> | <b>^ -----</b> | <b>k 2640.</b> | <b>k 7238.</b> | <b>k 1006.</b> |
| #2 | <b>114800.</b>   | <b>5237.</b>   | <b>129000.</b> | <b>2638.</b>   | <b>7263.</b>   | <b>1018.</b>   |
| #3 | <b>115600.</b>   | <b>5273.</b>   | <b>129000.</b> | <b>2655.</b>   | <b>7254.</b>   | <b>1027.</b>   |

|         |                 |                 |                 |                 |                 |                 |
|---------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Check ? | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Fail</b> | <b>Chk Pass</b> | <b>Chk Pass</b> | <b>Chk Pass</b> |
| Value   |                 |                 | <b>125000.</b>  |                 |                 |                 |
| Range   |                 |                 | <b>-10.50%</b>  |                 |                 |                 |

Sample Name: CCV      Acquired: 3/4/2016 22:16:57      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | k 2434.       | k 2493.       | k 2540.       | k 2528.       | k 987.8       | k 2569.       |
| Stddev | 32.           | 10.           | 27.           | 15.           | 39.9          | 12.           |
| %RSD   | 1.319         | .3827         | 1.058         | .5809         | 4.035         | .4615         |

|    |         |         |         |         |         |         |
|----|---------|---------|---------|---------|---------|---------|
| #1 | k 2406. | k 2494. | k 2511. | k 2512. | k 1033. | k 2559. |
| #2 | 2427.   | 2483.   | 2547.   | 2541.   | 960.1   | 2567.   |
| #3 | 2469.   | 2502.   | 2563.   | 2532.   | 969.9   | 2582.   |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | k 1045.       | ^F *****      | 9840.         | k 9110.       |
| Stddev | 3.            | ----          | 45.           | 1629.         |
| %RSD   | .2666         | ----          | .4561         | 17.88         |

|    |         |        |       |         |
|----|---------|--------|-------|---------|
| #1 | k 1042. | ^ ---- | 9791. | k 7240. |
| #2 | 1048.   | 5403.  | 9851. | 10220.  |
| #3 | 1044.   | 5366.  | 9879. | 9875.   |

|         |          |          |          |      |
|---------|----------|----------|----------|------|
| Check ? | Chk Pass | Chk Fail | Chk Pass | None |
| Value   |          | 5000.    |          |      |
| Range   |          | -10.50%  |          |      |

|           |               |               |               |
|-----------|---------------|---------------|---------------|
| 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       | 2315.2        | 27382.        | 3499.7        |
| Stddev    | 19.4          | 368.          | 129.1         |
| %RSD      | .83778        | 1.3441        | 3.6904        |

|    |        |        |        |
|----|--------|--------|--------|
| #1 | 2336.6 | 27682. | 3635.2 |
| #2 | 2298.8 | 27493. | 3485.9 |
| #3 | 2310.3 | 26971. | 3378.0 |

Sample Name: 460-109644-D-2-A@20      Acquired: 3/4/2016 22:13:10      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>5151.</b>  | <b>6.077</b>  | <b>-.5778</b> | <b>41.91</b>  | <b>.2721</b>  | <b>86150.</b> |
| Stddev | 938.          | 4.881         | .1439         | .07           | .1105         | 970.          |
| %RSD   | 18.20         | 80.32         | 24.90         | .1587         | 40.62         | 1.126         |
| #1     | 4069.         | 6.629         | -.4810        | 41.84         | .2355         | 85040.        |
| #2     | 5655.         | 10.66         | -.7432        | 41.94         | .1846         | 86550.        |
| #3     | 5728.         | .9432         | -.5093        | 41.96         | .3964         | 86860.        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>2.193</b>  | <b>4.045</b>  | <b>103.6</b>  | <b>75.30</b>  | <b>9818.</b>  | <b>363.0</b>  |
| Stddev | .174          | .286          | .5            | .64           | 97.           | 121.0         |
| %RSD   | 7.953         | 7.068         | .4951         | .8528         | .9847         | 33.34         |
| #1     | 2.393         | 3.999         | 103.0         | 75.68         | 9707.         | 223.7         |
| #2     | 2.072         | 4.351         | 103.7         | 74.56         | 9877.         | 423.0         |
| #3     | 2.114         | 3.785         | 104.0         | 75.66         | 9871.         | 442.4         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>45930.</b> | <b>235.8</b>  | <b>75.92</b>  | <b>113.3</b>  | <b>128.5</b>  | <b>-.2170</b> |
| Stddev | 264.          | 1.0           | 16.79         | .5            | 1.1           | 1.433         |
| %RSD   | .5753         | .4052         | 22.11         | .4539         | .8343         | 660.3         |
| #1     | 45640.        | 234.7         | 56.77         | 113.4         | 127.3         | -1.868        |
| #2     | 46030.        | 236.1         | 88.13         | 113.8         | 128.9         | .5159         |
| #3     | 46140.        | 236.5         | 82.84         | 112.8         | 129.3         | .7012         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: 460-109644-D-2-A@20      Acquired: 3/4/2016 22:13:10      Type: Unk  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-5.071</b> | <b>-1.210</b> | <b>19.75</b>  | <b>121.5</b>  | <b>3.970</b>  | <b>.6284</b>  |
| Stddev | 1.566         | .736          | .95           | .3            | .575          | .3319         |
| %RSD   | 30.89         | 60.84         | 4.792         | .2577         | 14.49         | 52.81         |
| #1     | -3.325        | -5.446        | 18.90         | 121.2         | 4.031         | .4151         |
| #2     | -6.352        | -2.001        | 19.56         | 121.8         | 3.366         | 1.011         |
| #3     | -5.535        | -1.084        | 20.77         | 121.4         | 4.512         | .4593         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>4.987</b>  | <b>40.45</b>  | <b>152.7</b>  | <b>198.5</b>  |
| Stddev | .463          | 7.44          | .4            | 35.1          |
| %RSD   | 9.281         | 18.40         | .2625         | 17.68         |
| #1     | 4.549         | 31.86         | 152.3         | 163.9         |
| #2     | 5.471         | 44.65         | 153.1         | 234.1         |
| #3     | 4.941         | 44.85         | 152.8         | 197.5         |

|            |          |          |          |          |
|------------|----------|----------|----------|----------|
| 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       | <b>2395.1</b> | <b>28545.</b> | <b>3629.9</b> |
| Stddev    | 14.1          | 287.          | 124.3         |
| %RSD      | .58830        | 1.0067        | 3.4250        |
| #1        | 2410.6        | 28876.        | 3771.9        |
| #2        | 2383.1        | 28374.        | 3540.4        |
| #3        | 2391.6        | 28383.        | 3577.5        |

Sample Name: CCB      Acquired: 3/4/2016 22:20:25      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>21.30</b>  | <b>-.7045</b> | <b>-.8115</b> | <b>.1662</b>  | <b>-.0628</b> | <b>-76.28</b> |
| Stddev | 8.64          | .8121         | .1965         | .1762         | .1583         | 4.49          |
| %RSD   | 40.55         | 115.3         | 24.21         | 106.0         | 252.2         | 5.883         |
| #1     | 11.65         | -1.637        | -.6472        | .2563         | -.0986        | -71.92        |
| #2     | 28.30         | -.3267        | -1.029        | .2791         | .1104         | -76.05        |
| #3     | 23.96         | -.1501        | -.7580        | -.0369        | -.2001        | -80.89        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Cd2265        | Co2286        | Cr2677        | Cu3247        | Fe2714        | K_7664        |
| Line   | 226.502 {449} | 228.616 {447} | 267.716 {126} | 324.754 {104} | 271.441 {124} | 766.490 { 44} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_3600)      | (Y_3600)      | (Y_3710)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>.1673</b>  | <b>.3550</b>  | <b>.3211</b>  | <b>-3.183</b> | <b>10.10</b>  | <b>-31.32</b> |
| Stddev | .0769         | .1241         | .3354         | .506          | 5.42          | 27.72         |
| %RSD   | 45.98         | 34.97         | 104.4         | 15.89         | 53.67         | 88.52         |
| #1     | .1027         | .4973         | .4004         | -3.005        | 12.87         | -11.90        |
| #2     | .2524         | .2986         | -.0468        | -2.790        | 3.854         | -18.99        |
| #3     | .1468         | .2690         | .6097         | -3.753        | 13.58         | -63.07        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Mg2790        | Mn2576        | Na5895        | Ni2316        | Pb2203        | Sb2068        |
| Line   | 279.079 {121} | 257.610 {131} | 589.592 { 57} | 231.604 {446} | 220.353 {453} | 206.833 {463} |
| IS Ref | (Y_3600)      | (Y_3600)      | (Y_3710)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.759</b>  | <b>.3122</b>  | <b>12.74</b>  | <b>-.4688</b> | <b>.7537</b>  | <b>-.3937</b> |
| Stddev | 2.333         | .1002         | 25.03         | .3215         | 1.009         | .6353         |
| %RSD   | 132.7         | 32.10         | 196.5         | 68.58         | 133.9         | 161.4         |
| #1     | 3.516         | .4110         | .0452         | -.1587        | .9282         | .3064         |
| #2     | 2.648         | .2106         | 41.57         | -.4471        | -.3311        | -.5537        |
| #3     | -.8882        | .3151         | -3.399        | -.8006        | 1.664         | -.9337        |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

Sample Name: CCB      Acquired: 3/4/2016 22:20:25      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>-1.595</b> | <b>-.8745</b> | <b>.2780</b>  | <b>.0768</b>  | <b>.3898</b>  | <b>1.083</b>  |
| Stddev | .566          | 2.014         | .1960         | .2579         | .4365         | .833          |
| %RSD   | 35.45         | 230.3         | 70.51         | 335.9         | 112.0         | 76.87         |
| #1     | -1.832        | .4836         | .0703         | .3688         | .8438         | 2.036         |
| #2     | -.9498        | .0811         | .4598         | -.1195        | -.0267        | .7161         |
| #3     | -2.004        | -3.188        | .3040         | -.0190        | .3521         | .4972         |

|            |          |          |          |          |          |          |
|------------|----------|----------|----------|----------|----------|----------|
| Check ?    | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| High Limit |          |          |          |          |          |          |
| Low Limit  |          |          |          |          |          |          |

|        |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|
| Elem   | Sn1899        | Sr4077        | Ti3349        | Si2881        |
| Line   | 189.989 {477} | 407.771 { 83} | 334.941 {101} | 288.158 {117} |
| IS Ref | (Y_2243)      | (Y_3710)      | (Y_3600)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           |
| Avg    | <b>1.748</b>  | <b>.6562</b>  | <b>.7657</b>  | <b>6.659</b>  |
| Stddev | .195          | .4494         | .1242         | 12.24         |
| %RSD   | 11.16         | 68.50         | 16.23         | 183.9         |
| #1     | 1.642         | .3590         | .7840         | -4.587        |
| #2     | 1.628         | 1.173         | .8798         | 4.861         |
| #3     | 1.973         | .4363         | .6333         | 19.70         |

|            |          |          |          |      |
|------------|----------|----------|----------|------|
| 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       | <b>2475.5</b> | <b>28606.</b> | <b>3784.1</b> |
| Stddev    | 24.2          | 771.          | 56.0          |
| %RSD      | .97655        | 2.6962        | 1.4792        |
| #1        | 2491.7        | 28836.        | 3839.2        |
| #2        | 2487.2        | 29236.        | 3785.8        |
| #3        | 2447.7        | 27746.        | 3727.3        |

Sample Name: CCVL      Acquired: 3/4/2016 22:24:17      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

|        |               |               |               |               |               |               |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Elem   | Al3961        | As1890        | Ag3280        | Ba2335        | Be3130        | Ca3181        |
| Line   | 396.152 { 85} | 189.042 {478} | 328.068 {103} | 233.527 {445} | 313.042 {108} | 318.128 {106} |
| IS Ref | (Y_3710)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_3710)      | (Y_3600)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 171.4         | 16.72         | 9.080         | 207.1         | 1.730         | 5136.         |
| Stddev | 95.6          | 1.16          | .177          | .4            | .975          | 22.           |
| %RSD   | 55.80         | 6.955         | 1.955         | .1928         | 56.35         | .4194         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 61.27 | 18.02 | 9.182 | 206.7 | .6044 | 5158. |
| #2 | 219.4 | 15.78 | 9.183 | 207.0 | 2.293 | 5115. |
| #3 | 233.6 | 16.36 | 8.875 | 207.5 | 2.293 | 5135. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | 4.367         | 52.49         | 10.52         | 21.68         | 170.8         | 4031.         |
| Stddev | .212          | .07           | .20           | .80           | 10.8          | 2001.         |
| %RSD   | 4.859         | .1326         | 1.882         | 3.698         | 6.317         | 49.65         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 4.373 | 52.57 | 10.67 | 21.23 | 173.4 | 1720. |
| #2 | 4.152 | 52.44 | 10.30 | 21.20 | 180.1 | 5177. |
| #3 | 4.576 | 52.46 | 10.59 | 22.61 | 159.0 | 5196. |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | 4834.         | 16.57         | 3949.         | 43.04         | 9.498         | 19.00         |
| Stddev | 35.           | .07           | 1937.         | .40           | 1.076         | .86           |
| %RSD   | .7140         | .4043         | 49.06         | .9200         | 11.33         | 4.521         |

|    |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|
| #1 | 4807. | 16.51 | 1712. | 42.73 | 10.67 | 19.53 |
| #2 | 4822. | 16.54 | 5058. | 42.90 | 9.263 | 19.47 |
| #3 | 4873. | 16.64 | 5077. | 43.48 | 8.560 | 18.01 |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| Check ? | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass | Chk Pass |
| Value   |          |          |          |          |          |          |
| Range   |          |          |          |          |          |          |

Sample Name: CCVL      Acquired: 3/4/2016 22:24:17      Type: QC  
Method: sw02152016(v11)      Mode: CONC      Corr. Factor: 1.000000  
User: admin      Custom ID1:      Custom ID2:      Custom ID3:  
Comment:

| Elem   | Se196         | Ti1908        | V_2924        | Zn2062        | B_2089        | Mo2020        |
|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| Line   | 196.090 {472} | 190.856 {477} | 292.402 {115} | 206.200 {463} | 208.959 {461} | 202.030 {467} |
| IS Ref | (Y_2243)      | (Y_2243)      | (Y_3600)      | (Y_2243)      | (Y_2243)      | (Y_2243)      |
| Units  | ppb           | ppb           | ppb           | ppb           | ppb           | ppb           |
| Avg    | 18.42         | 20.05         | 52.94         | 32.62         | 45.30         | 20.61         |
| Stddev | 2.71          | .37           | .84           | .24           | .47           | .12           |
| %RSD   | 14.70         | 1.841         | 1.588         | .7450         | 1.029         | .6029         |
| #1     | 15.52         | 20.17         | 52.80         | 32.63         | 44.78         | 20.74         |
| #2     | 20.88         | 20.34         | 52.17         | 32.85         | 45.67         | 20.49         |
| #3     | 18.86         | 19.63         | 53.84         | 32.37         | 45.47         | 20.60         |

|         |          |          |          |          |          |          |
|---------|----------|----------|----------|----------|----------|----------|
| 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    | 52.25         | 16.97         | 20.58         | F 10.58       |
| Stddev | .41           | 8.05          | .25           | 5.70          |
| %RSD   | .7918         | 47.47         | 1.217         | 53.89         |
| #1     | 51.95         | 7.668         | 20.30         | 13.18         |
| #2     | 52.08         | 21.49         | 20.68         | 4.040         |
| #3     | 52.72         | 21.74         | 20.77         | 14.51         |

|         |          |          |          |          |
|---------|----------|----------|----------|----------|
| 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       | 2463.4        | 27619.        | 3626.9        |
| Stddev    | 33.1          | 214.          | 74.5          |
| %RSD      | 1.3453        | .77383        | 2.0528        |
| #1        | 2445.3        | 27554.        | 3680.7        |
| #2        | 2443.1        | 27858.        | 3658.2        |
| #3        | 2501.6        | 27445.        | 3542.0        |



## METALS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-109716-1

SDG No.: \_\_\_\_\_

Batch Number: 354017 Batch Start Date: 03/04/16 07:41 Batch Analyst: Yang, QinBatch Method: 3050B Batch End Date: 03/04/16 12:00

| Lab Sample ID          | Client Sample ID | Method Chain | Basis | CalcMsg             | InitialAmount | FinalAmount | ME_LCS-int<br>00055 | ME_LCSS_87<br>00006 |  |
|------------------------|------------------|--------------|-------|---------------------|---------------|-------------|---------------------|---------------------|--|
| MB 460-354017/1        |                  | 3050B, 6010C |       | CALC NOT SET TO RUN | 1.0 g         | 50 mL       |                     |                     |  |
| LCSSRM<br>460-354017/2 |                  | 3050B, 6010C |       | CALC NOT SET TO RUN | 1.0 g         | 50 mL       |                     | 1 g                 |  |
| 460-109595-A-3<br>DU   |                  | 3050B, 6010C | T     | CALC NOT SET TO RUN | 1.0 g         | 50 mL       |                     |                     |  |
| 460-109595-A-3<br>MS   |                  | 3050B, 6010C | T     | CALC NOT SET TO RUN | 1.0 g         | 50 mL       | 2 mL                |                     |  |
| 460-109716-A-1         | C1               | 3050B, 6010C | T     | CALC NOT SET TO RUN | 1.03 g        | 50 mL       |                     |                     |  |

| Batch Notes                       |                                |
|-----------------------------------|--------------------------------|
| Balance ID                        | #35                            |
| Hydrogen Peroxide ID              | 153972 (Fisher Chemical Brand) |
| Logbook ID for diluted Nitric     | MPR278                         |
| Lot # of Nitric Acid              | 0000124258                     |
| Hot Block ID                      | #1                             |
| Oven, Bath or Block Temperature 1 | 95c Degrees C                  |
| Pipette ID                        | #42                            |
| Thermometer ID                    | ICP-4 (CF -1)                  |
| Digestion Tube/Cup ID             | J224200-1123                   |
| Uncorrected Temperature           | 96c Celsius                    |

| Basis | Basis Description |
|-------|-------------------|
| T     | Total/NA          |

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

# GENERAL CHEMISTRY

COVER PAGE  
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-109716-1

SDG No.: \_\_\_\_\_

Project: DEC-Elmont546; Site / E130150

Client Sample ID  
C1

Lab Sample ID  
460-109716-1

Comments:

9-IN  
DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison

Job Number: 460-109716-1

SDG Number: \_\_\_\_\_

Matrix: Solid

Instrument ID: NOEQUIP

Method: Moisture

RL Date: 02/15/2007 17:07

| Analyte          | Wavelength/<br>Mass | RL<br>(%) |  |
|------------------|---------------------|-----------|--|
| Percent Moisture |                     | 1         |  |
| Percent Solids   |                     | 1         |  |

9-IN  
CALIBRATION BLANK DETECTION LIMITS  
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-109716-1  
SDG Number: \_\_\_\_\_  
Matrix: Solid Instrument ID: NOEQUIP  
Method: Moisture XRL Date: 01/01/2007 16:49

| Analyte          | Wavelength/<br>Mass | XRL<br>(%) |  |
|------------------|---------------------|------------|--|
| Percent Moisture |                     | 1          |  |
| Percent Solids   |                     | 1          |  |

13-IN  
ANALYSIS RUN LOG  
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-109716-1

SDG No.: \_\_\_\_\_

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/03/2016 19:32 End Date: 03/03/2016 19:32

| Lab<br>Sample<br>ID | D<br>/<br>F | T<br>y<br>p<br>e | Time  | Analytes         |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---------------------|-------------|------------------|-------|------------------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|                     |             |                  |       | %<br>S<br>o<br>l | M<br>o<br>i<br>s<br>t |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:32 |                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:32 |                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 460-109716-1        | 1           | T                | 19:32 | X                | X                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:32 |                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:32 |                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:32 |                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:32 |                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:32 |                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:32 |                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:32 |                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:32 |                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:32 |                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:32 |                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:32 |                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:32 |                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:32 |                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:32 |                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:32 |                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:32 |                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:32 |                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:32 |                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:32 |                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ZZZZZZ              |             |                  | 19:32 |                  |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 460-109637-A-3 DU   | 1           | T                | 19:32 | X                | X                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Prep Types  
T = Total/NA

## GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-109716-1

SDG No.: \_\_\_\_\_

Batch Number: 353906 Batch Start Date: 03/03/16 19:32 Batch Analyst: Hodge, Joshua DBatch Method: Moisture Batch End Date: 03/04/16 13:45

| Lab Sample ID        | Client Sample ID | Method Chain | Basis | DISH# | DishWeight | SampleMassWet | SampleMassDry |  |  |
|----------------------|------------------|--------------|-------|-------|------------|---------------|---------------|--|--|
| 460-109716-A-1       | C1               | Moisture     | T     | 87    | 1.02 g     | 7.48 g        | 6.69 g        |  |  |
| 460-109637-A-3<br>DU |                  | Moisture     | T     | 106   | 1.02 g     | 5.75 g        | 5.03 g        |  |  |

| Batch Notes                          |               |
|--------------------------------------|---------------|
| Balance ID                           | 104 No Unit   |
| Date samples were placed in the oven | 3/3/16        |
| Oven Temp In                         | 110 Degrees C |
| Time samples were place in the oven  | 19:46         |
| Date samples were removed from oven  | 3/4/16        |
| Oven Temp Out                        | 110 Degrees C |
| Time Samples were removed from oven  | 13:45         |
| Oven ID                              | 2             |
| Thermometer ID                       | 92125         |
| Uncorrected In Temperature           | 110 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



## CHAIN OF CUSTODY / ANALYSIS REQUEST

Page 1 of 1

|   |                        |  |                    |  |  |
|---|------------------------|--|--------------------|--|--|
| Name (for report and invoice)<br><b>IAN HORMANN</b>   |                        | Samplers Name (Printed)<br><b>EAR-SG</b>   |                    | Site/Project Identification<br><b>DEC-ELNONT546 / E130150</b>  |  |
| Company<br><b>EAR</b>   |                        | P.O. #   |                    | State (Location of site): NJ: <input type="checkbox"/> NY: <input checked="" type="checkbox"/> Other: <input type="checkbox"/> |  |
| Address<br><b>225 ATLANTIC AVE</b>  |                        | Analysis Turnaround Time<br>Standard <input type="checkbox"/> Rush Charges Authorized For:<br>2 Week <input type="checkbox"/> 1 Week <input type="checkbox"/> Other <input type="checkbox"/> |                    | Regulatory Program: <input type="checkbox"/> DKQP: <input type="checkbox"/>  |  |
| City<br><b>PATCHOGUE</b>  |                        | State<br><b>NY</b>   |                    | LAB USE ONLY<br>Project No:<br><b>109716</b>   |  |
| Phone<br><b>631-447-6400</b>  |                        | Fax  |                    | Sample Numbers<br><b>-1</b>  |  |
| Sample Identification<br><b>C1</b>  | Date<br><b>2/29/16</b> | Time<br><b>1355</b>  | Matrix<br><b>S</b> | No. of Cont.<br><b>1</b>   | <br>460-109716 Chain of Custody |
|   |                        |  |                    |  |  |
|   |                        |  |                    |  |  |
|   |                        |  |                    |  |  |
|   |                        |  |                    |  |  |
|   |                        |  |                    |  |  |
|   |                        |  |                    |  |  |
|   |                        |  |                    |  |  |
|   |                        |  |                    |  |  |
|   |                        |  |                    |  |  |
| Preservation Used: 1 = ICE, 2 = HCl, 3 = H <sub>2</sub> SO <sub>4</sub> , 4 = HNO <sub>3</sub> , 5 = NaOH<br>6 = Other <b>UNPRES.</b> , 7 = Other _____ |                        |  |                    |  | Soil: <b>6</b> Water: <b>6</b>   |

| Special Instructions CATEGORY B DELIVERABLES REQUESTED |                        | Water Metals Filtered (Yes/No)?     |  |
|--|------------------------|-------------------------------------|--|
| Relinquished by<br><b>SEPH GATZ</b>                    | Company<br><b>EAR</b>  | Date / Time<br><b>2/29/16 14:00</b> | Received by<br><b>[Signature]</b><br>Company<br><b>VA</b>      |
| Relinquished by<br><b>[Signature]</b>                  | Company<br><b>T.A.</b> | Date / Time<br><b>2/29/16 18:00</b> | Received by<br><b>[Signature]</b><br>Company<br><b>T.A.</b>    |
| Relinquished by<br><b>[Signature]</b>                  | Company                | Date / Time                         | Received by<br><b>[Signature]</b><br>Company<br><b>5/29/16</b> |
| Relinquished by  | Company                | Date / Time                         | Received by<br><b>[Signature]</b><br>Company<br><b>10:00</b>   |

Laboratory Certifications: New Jersey (12028), New York (11452), Pennsylvania (68-522), Connecticut (PH-0200), Rhode Island (132).

Massachusetts (M-NJ312), North Carolina (No. 578) **1.0 / 2.0 FPA 6 UOC.**

TAL-0016 (0715)

**Job Number:**

## Number of Coolers:

# REVIEW

# Cooler Temperatures:

|            | RAW  | CONNECTED |            | RAW | CONNECTED |
|------------|------|-----------|------------|-----|-----------|
| Cooler #1: | 15.0 | 12.0      | Cooler #4: | 0.0 | 0.0       |
| Cooler #2: | 0.0  | 0.0       | Cooler #5: | 0.0 | 0.0       |
| Cooler #3: | 0.0  | 0.0       | Cooler #6: | 0.0 | 0.0       |
|            |      |           | Cooler #7: | 0.0 | 0.0       |
|            |      |           | Cooler #8: | 0.0 | 0.0       |
|            |      |           | Cooler #9: | 0.0 | 0.0       |

[illegible]

**If pH adjustments are required record the information below:**

**Sample No(s). adjusted:**

Preservative Name/Conc.:

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.**

**Initials:**

Date: 2/22/6

## Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 460-109716-1

Login Number: 109716

List Source: TestAmerica Edison

List Number: 1

Creator: Lysy, Susan

| Question   | Answer | Comment   |
|--|--------|---|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | N/A    |   |
| The cooler's custody seal, if present, is intact.  | N/A    | Not present   |
| Sample custody seals, if present, are intact.  | N/A    |   |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |   |
| Samples were received on ice.  | True   |   |
| Cooler Temperature is acceptable.  | True   |   |
| Cooler Temperature is recorded.  | True   | 2.0°C IR#6  |
| COC is present.  | True   |   |
| COC is filled out in ink and legible.  | True   |   |
| COC is filled out with all pertinent information.  | False  | See NCM   |
| Is the Field Sampler's name present on COC?  | True   |   |
| There are no discrepancies between the containers received and the COC.                  | True   |   |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |   |
| Sample containers have legible labels.   | True   |   |
| Containers are not broken or leaking.  | True   |   |
| Sample collection date/times are provided.   | True   |   |
| Appropriate sample containers are used.  | True   |   |
| Sample bottles are completely filled.  | True   |   |
| Sample Preservation Verified.  | True   |   |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |   |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | N/A    |   |
| Multiphasic samples are not present.   | N/A    |   |
| Samples do not require splitting or compositing.   | N/A    |   |
| Residual Chlorine Checked.   | N/A    | No analysis requiring residual chlorine check assigned. |