# Data Validation Checklist
# Inorganic Analyses

| | | | |
|---|---|---|---|
| Project: | 35TH Avenue Superfund Site | Project No: | 60430028; 1 |
| Laboratory: | TestAmerica – Savannah, GA | Job ID.: | 680-106200-2 |
| Method: | SW-846 6010C | Associated Samples: | Refer to **Attachment A** (Sample Summary) |
| Matrix: | Soil | Samples Collected: | 10/09/2014 |
| Reviewer: | Karen M Trujillo, URS Group, Inc. | Date: | 08/10/2015 |
| Concurrence[1]: | Jenine Abbassi, URS Group, Inc. | Date: | 08/14/2015 |

| Review Questions | Yes | No | N/A | Samples (Analytes) Affected/Comments | Flag |
|---|---|---|---|---|---|
| 1. Were sample preservation requirements met? If pH of aqueous sample >2 and was not adjusted by laboratory prior to analysis, J- flag positive results and R- flag non-detect results. | | | ✓ | | |
| 2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples? | ✓ | | | | |
| 3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt? | | ✓ | | | |
| 4. Do any soil/sediment samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis. | | ✓ | | | |
| 5. Have any technical holding times, determined from date of collection to date of analysis, been exceeded? (Hg: ≤28 days, other metals: ≤6 months; Cr+6: ≤24 hours from extraction). If not, then J- flag positive results and R- flag non-detect aqueous results. | | ✓ | | | |
| 6. Were results for all project-specified target analytes reported? | ✓ | | | | |
| 7. Were project-specified Reporting Limits achieved for undiluted sample analyses? | | ✓ | | Resident Soil RSL with THQ = 1.0 (ORNL, June 2015) for target analytes:<br>• Aluminum: 77,000 mg/Kg<br>• Arsenic: 0.68 mg/Kg<br>• Iron: 55,000 mg/Kg<br>• Lead: 400 mg/Kg<br><br>The MDL for arsenic is less than the respective above-mentioned RSL in undiluted sample 680-106200-29 (CV0748WW-CS18), [MDL is 0.69 mg/Kg]. A data gap does not exist as arsenic was detected in Sample 680-106200-29 (CV0748WW-CS18). | |
| 8. Were method blank (MB) prepared at the appropriate frequency (one per 20 samples, batch, matrix, and level)? | ✓ | | | | |
| 9. Was a calibration blank (ICB/CCB) analyzed at the beginning, after every 10th sample, and at the end of each analytical run? | ✓ | | | | |

[1] Independent technical reviewer

# Data Validation Checklist (Continued)

| Review Questions | Yes | No | N/A | Samples (Analytes) Affected/Comments | Flag |
|---|---|---|---|---|---|
| 10. Were target analytes detected in the method and/or calibration blanks? | | ✓ | | Target analyte was not detected in the method blank. Calibration blanks were not evaluated. | |
| 11. Were target analytes reported in equipment/rinsate blanks analyses above the DL? | | | ✓ | According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank is not associated with this sampling event. Blank contamination will be evaluated based on method blank results. | |
| 12. Were contaminants detected in samples below the blank contamination action level?<br>○ If blank result > RL,<br>• Flag sample results ≤ RL with a U<br>• Flag positive sample results > RL and ≤10x blank result , as J+ positive results<br>○ If blank result ≤RL,<br>• Flag sample results ≤ RL with a U<br>• Flag positive sample results > RL and ≤10x blank result , as J+ positive results | | | ✓ | Target analytes were not detected during the analysis of the method blank. An evaluation of the effect of blank contamination on soil sample results was based on method blank results, and not calibration blank results. | |
| 13. Are there negative laboratory blank results with the absolute value ≤RL? If yes, then flag positive and non-detect sample results that are < 10x absolute blank value as J- and UJ, respectively. | | ✓ | | | |
| 14. Was a field duplicate analyzed? | ✓ | | | CV0971WW-CSD6 (680-106200-19) is a field duplicate of sample CV0971WW-CS6 (680-106200-18). | |
| 15. Was precision deemed acceptable as defined by the project plans? | ✓ | | | Refer to **Attachment B** (Field Duplicate Evaluation) | |
| 16. Were initial and continuing calibration standards analyzed at the lab/project-specified frequency for each instrument?<br>○ 6010C:<br>• ICAL: Blank and one standard<br>• ICV initially, and CCV every 10th sample and at the end of the analytical run<br>• Lower Limit of Quantitation Check Sample (CRI) to be analyzed after establishing lower laboratory reporting limits and as needed<br>○ 7471A:<br>• ICAL: Blank and five standards<br>• ICV initially, and CCV every 10th sample and at the end of the analytical run<br>○ 7196A:<br>• ICAL: Blank and minimum of five standards<br>• ICV initially, and CCV every 10th sample (15th per Method) and at the end of the analytical run | ✓ | | | 6010C: 10/15/2014, 10/17/2014, 10/18/2014, and 10/20/2014. One blank and one standard initially. ICV initially, and CCV every 10 samples and at end of run. CRI after initial calibration blank analysis. | |
| 17. Were these results within lab/project specifications?<br>○ 6010C<br>• ICV/CCV (Criteria: 90-110%R): | ✓ | | | | |

# Data Validation Checklist (Continued)

| Review Questions | Yes | No | N/A | Samples (Analytes) Affected/Comments | Flag |
|---|---|---|---|---|---|
| ▪ If %R <75, then J- flag positive results and R-flag non-detects<br>▪ If 75-89%R, then J- flag positive results and UJ flag non-detects<br>▪ If 111-125%R, then J flag positive results<br>▪ If >125%R, then J+ flag positive results<br>▪ If >160%R, then R flag positive results<br>• CRI (Method: 70-130%R, Laboratory: 50-150%R; Project: 50-150%R for Sb, Pb, and Tl, and 70-130%R for all other analytes):<br>▪ If CRI %R <50 (<30% for Sb, Pb, TL), then R flag results ≤ 2x RL and J flag positive results >2x RL<br>▪ If CRI %R 50-69% (30-49% for Sb, Pb, TL), then J- and UJ flag positive results <2x RL and ND, respectively<br>▪ If CRI %R >130% and ≤180% (>150%, but ≤200% for Sb, Pb, TL), then J+ flag positive results <2x RL<br>▪ If CRI %R >180% (>200% for Sb, Pb, TL), then R flag positive results<br>○ 7471A<br>• ICV/CCV (Criteria: 80-120%R):<br>▪ If correlation coefficients <0.995, then J and UJ flag positive and non-detect results.<br>▪ If %R <65, then J- flag positive results and R-flag non-detects<br>▪ If 65-79%R, then J- flag positive results and UJ flag non-detects<br>▪ If 121-135%R, then J flag positive results<br>▪ If >135%R, then J+ flag positive results<br>▪ If >170%R, then R flag positive results<br>• CRI (Method: Not required, Laboratory: 50-150%R, Project: 70-130%R):<br>▪ If CRI %R <50, then R flag results ≤ 2x RL and J flag positive results >2x RL<br>▪ If CRI %R 50-69%, then J- and UJ flag positive results <2x RL and ND, respectively<br>▪ If CRI %R >130% and ≤180%, then J+ flag positive results <2x RL<br>▪ If CRI %R >180%, then R flag positive result<br>○ 7196A:<br>• ICV/CCV (Criteria: 90-110%R):<br>▪ If correlation coefficients <0.995, then J and UJ flag positive and non-detect results.<br>▪ If %R <65, then J- flag positive results and R-flag non-detects | | | | | |

# Data Validation Checklist (Continued)

| Review Questions | Yes | No | N/A | Samples (Analytes) Affected/Comments | Flag |
|---|---|---|---|---|---|
| ▪ If 65-90%R, then J- flag positive results and UJ flag non-detects<br>▪ If 110-135%R, then J flag positive results<br>▪ If >135%R, then J+ flag positive results<br>▪ If >170%R, then R flag positive results | | | | | |
| 18. Was the interference check sample (ICS) analyzed at the beginning of each ICP analytical run? | ✓ | | | | |
| 19. Are ICS recoveries within 80-120% of the true value? If not, qualify data as follows when native Al, Fe, Ca, and Mg sample concentrations are equal to or greater than the ICS spiking level:<br>o If >120%R (or >true value plus 2x CRQL), J+ flag positive results<br>o If 50-79%R (or less than true value – 2x the CRQL), J- flag positive results and UJ flag non-detects<br>o If <50%R, J- flag positive results and R-flag non-detects | ✓ | | | | |
| 20. Was a LCS analyzed for each preparation batch (one per 20 samples per matrix and level)? | ✓ | | | | |
| 21. Did LCS recoveries meet method/laboratory/project (80-120%R) specifications?<br>o Soil:<br>• LCS result > Upper control limit (UCL): J+ flag positive results<br>• LCS result < Lower control limit (LCL): J- flag positive results and UJ flag non-detects<br>o Aqueous:<br>• If <50%R, then J- and R flag positive and ND results, respectively<br>• If 50-LCL%R, J- and UJ flag positive and ND results, respectively<br>• >UCL: J+ Flag positive results<br>• >150%R: R Flag results | ✓ | | | | |
| 22. Was the RPD between LCS and LCSD results within method/laboratory /project control limits (≤20%RPD)? If not, J and UJ flag positive and non-detect results, respectively | | | ✓ | LCS only | |
| 23. Was a Matrix Spike (MS) and Matrix Spike Duplicate (MSD) analyzed once per preparation batch? | ✓ | | | • Batch 353346: 680-106200-18 (CV0971WW-CS6), MS/MSD/PDS<br>• Batch 353312: (Batch Sample), MS/MSD/PDS. Lab sample 680-106200-A-1 is a project-specific sample (CV0005Y-CS6) and results were reported under Job ID 680-106200-1.<br>• Batch 353262: (Batch Sample), MS/MSD/PDS. Lab sample 680-106200-A-51 is a project-specific sample [CV0753B-CS (0-4")] and results were reported under Job ID 680-106200-4. | |
| 24. Is the MS and MSD parent sample a project-specific sample? | ✓ | ✓ | | | |
| 25. Was a post-digestion spike (PDS) analysis conducted when MS and/or MSD results did not meet control limits (Note: PDS is not required for | ✓ | | | 680-106200-18 (CV0971WW-CS6) | |

# Data Validation Checklist (Continued)

| Review Questions | Yes | No | N/A | Samples (Analytes) Affected/Comments | Flag |
|---|---|---|---|---|---|
| silver, mercury, or hexavalent chromium)? | | | | | |
| 26. For all analytes with sample concentration < 4 x spike concentration, are spike recoveries within method (6010C: 75-125%R MS/MSD and 80-120%R PDS; 7471A: 80-120%R MS/MSD; 7196A: 85-115%R MS), laboratory (MS, MSD, and PDS: 75-125%R for 6010C/7471 (as applicable) and 80-120%R for 7196), and project (as noted below) specifications? *Only QC results for project samples are evaluated.*<br>If not,<br>○ 6010C:<br>• If MS %R <30 and PDS %R <75, then J- and R Flag positive and ND results, respectively<br>• If MS %R <30 and PDS %R >75, then J flag positive and UJ flag non-detect results<br>• If MS and MSD %R 30-74 and PDS%R <75, then J- flag positive and UJ flag non-detect results<br>• If MS and MSD %R 30-74 and PDS%R ≥75, then J flag positive and UJ flag non-detect results<br>• If MS, MSD, and PDS %R >125, J+ flag positive results<br>• If MS and MSD %R >125 and PDS %R ≤125, then J flag positive results<br>• If MS and MSD %R <30 and no PDS, then J- flag positive and R-flag non-detect results<br>• If MS and MSD %R 30-74 and no PDS, then J- and UJ flag positive and non-detect results, respectively<br>• If MS and MSD %R >125 and no PDS, then J+ flag positive results<br>○ 7471A/7196:<br>• If MS %R <30, then J- and R Flag positive and ND results, respectively<br>• If MS and MSD %R 30-LCL, then J- flag positive and UJ flag non-detect results<br>• If MS and MSD %R >UCL, then J+ flag positive results | | ✓ | | 680-106200-18 (CV0971WW-CS6):<br>• Arsenic MS and MSD @134 and 83%R (Lab/Project: 75-125%R); PDS 99%R (Lab/Project: 80-120%R).<br>• Lead MS and MSD @47 and 78%R (Lab/Project: 75-125%R); PDS is Not Calculated (Lab/Project: 80-120%R).<br><br>Qualification of data is not warranted, as the MSD recovery met control limits. | |
| 27. For all analytes with sample concentration < 4 x spike concentration, were laboratory/project (≤20%RPD) criteria met for precision during the MS and MSD analysis? *Only QC results for project samples are evaluated.*<br>○ If RPD >20%, J and UJ flag positive and non-detect results. | | ✓ | | 680-106200-18 (CV0971WW-CS6):<br>• Iron %RPD @24 (Lab/Project: <20%RPD)<br><br>Result for the above-mentioned analyte is estimated (J-flagged) in sample CV0971WW-CS6 and field duplicate CV0971WW-CD6 (680-106200-19) due to matrix interference. | J |
| 28. Was a serial dilution conducted for 6010C/EPA 200.7? | ✓ | | | | |
| 29. Is the serial dilution parent sample a project-specific sample? | ✓ | ✓ | | • 680-106200-18 (CV0971WW-CS6)<br>• 680-106200-51 (Batch Sample), Lab sample 680-106200-51 is a project-specific sample [CV0753B-CS (0-4")] and results | |

# Data Validation Checklist (Continued)

| Review Questions | Yes | No | N/A | Samples (Analytes) Affected/Comments | Flag |
|---|---|---|---|---|---|
| | | | | were reported under Job ID 680-106200-4.<br>• 680-106200-1 (Batch Sample), Lab sample 680-106200-1 is a project-specific sample (CV0005Y-CS6) and results were reported under Job ID 680-106200-1. | |
| 30. Is the percent difference between the serially diluted result and undiluted result less 10% (for those analytes with native concentrations greater than 50x the DL)? *Only QC results for project samples are evaluated.*<br>o If %D >10, J and UJ flag positive and non-detect results, respectively. | | ✓ | | 680-106200-18 (CV0971WW-CS6):<br>• Iron %D @12 (<10%D)<br>• Lead %D @15 (<10%D) | J |
| 31. Was a laboratory duplicate analyzed? | | ✓ | | | |
| 32. Was the lab duplicate analysis conducted on a project-specific sample? | | | ✓ | | |
| 33. Were criteria for laboratory/project precision met? *Only QC results for project samples are evaluated.*<br>o If RPD values >20% (35% for soil/sediment) or absolute difference > RL (2x RL for soil/sediment), then J and UJ flag positive and non-detect results, respectively | | | ✓ | | |
| 34. Were lab comments included in report? If yes, summarize contents or attach a copy of the narrative. | ✓ | | | Refer to **Attachment C** (Case Narrative) | |

**Comments:** The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Inorganic Data Review* (EPA 540-R-04-004, October 2004). Sample results have been qualified based on the results of the data review process (**Attachment D**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment

## DV Flag Definitions:

J- The result is an estimated quantity, but the result may be biased low.
J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+ The result is an estimated quantity, but the result may be biased high.
R The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
UJ The analyte was analyzed for, but was not detected. The reported limit is approximate and may be inaccurate or imprecise.

# ATTACHMENT A

# SAMPLE SUMMARY

# SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106200-2
Sdg Number: 680-106200-02

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 680-106200-18 | CV0971WW-CS6 | Solid | 10/09/2014 1340 | 10/11/2014 0933 |
| 680-106200-18MS | CV0971WW-CS6 | Solid | 10/09/2014 1340 | 10/11/2014 0933 |
| 680-106200-18MSD | CV0971WW-CS6 | Solid | 10/09/2014 1340 | 10/11/2014 0933 |
| 680-106200-19 | CV0971WW-CSD6 | Solid | 10/09/2014 1340 | 10/11/2014 0933 |
| 680-106200-20 | CV0971WW-CS12 | Solid | 10/09/2014 1350 | 10/11/2014 0933 |
| 680-106200-21 | CV0971WW-CS18 | Solid | 10/09/2014 1400 | 10/11/2014 0933 |
| 680-106200-22 | CV0971WW-CS24 | Solid | 10/09/2014 1410 | 10/11/2014 0933 |
| 680-106200-23 | CV0005AC-CS6 | Solid | 10/09/2014 1010 | 10/11/2014 0933 |
| 680-106200-24 | CV0005AC-CS12 | Solid | 10/09/2014 1020 | 10/11/2014 0933 |
| 680-106200-25 | CV0005AC-CS18 | Solid | 10/09/2014 1030 | 10/11/2014 0933 |
| 680-106200-26 | CV0005AC-CS24 | Solid | 10/09/2014 1040 | 10/11/2014 0933 |
| 680-106200-27 | CV0748WW-CS6 | Solid | 10/09/2014 1240 | 10/11/2014 0933 |
| 680-106200-28 | CV0748WW-CS12 | Solid | 10/09/2014 1250 | 10/11/2014 0933 |
| 680-106200-29 | CV0748WW-CS18 | Solid | 10/09/2014 1300 | 10/11/2014 0933 |
| 680-106200-30 | CV0748WW-CS24 | Solid | 10/09/2014 1310 | 10/11/2014 0933 |

# ATTACHMENT B

# FIELD DUPLICATE EVALUATION

**Evaluation of Field Duplicate Results** **Attachment B**

| Analyte | CV0971WW-CS6 680-106200-18 | | RL | CV0971WW-CSD6 680-106200-19 | | RL | Unit | Avg. RLx5 | RPD | Absolute difference | 2x Avg RL | Action |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 14000 | | 20 | 13000 | | 21 | mg/kg | 102.5 | **7** | NA | NA | None, RPD ≤ 50% |
| Arsenic | 28 | | 2.0 | 29 | | 2.1 | mg/kg | 10.25 | **4** | NA | NA | None, RPD ≤ 50% |
| Iron | 39000 | | 20 | 41000 | | 21 | mg/kg | 102.5 | **5** | NA | NA | None, RPD ≤ 50% |
| Lead | 170 | | 1.0 | 180 | | 1.0 | mg/kg | 5 | **6** | NA | NA | None, RPD ≤ 50% |

Note: If the analyte was not detected, then the cell was left blank.

mg/kg - Milligrams per kilogram
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

# ATTACHMENT C

# CASE NARRATIVE

# CASE NARRATIVE
## Client: Oneida Total Integrated Enterprises LLC
## Project: 35th Avenue Superfund Site
## Report Number: 680-106200-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

No additional analytical or quality issues were noted, other than those described below or in the Definitions/Glossary page.

**RECEIPT**

The samples were received on 10/11/2014 9:33 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.8º C, 1.8º C, 4.8º C and 5.2º C.

**SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH**

Samples CV0971WW-CS6 (680-106200-18), CV0971WW-CSD6 (680-106200-19), CV0971WW-CS12 (680-106200-20), CV0971WW-CS18 (680-106200-21), CV0971WW-CS24 (680-106200-22), CV0005AC-CS6 (680-106200-23), CV0005AC-CS12 (680-106200-24), CV0005AC-CS18 (680-106200-25), CV0005AC-CS24 (680-106200-26), CV0748WW-CS6 (680-106200-27), CV0748WW-CS12 (680-106200-28), CV0748WW-CS18 (680-106200-29) and CV0748WW-CS24 (680-106200-30) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW846 Method 8270D.

Method(s) 8270D_LL_PAH: Manual integration was performed on the following sample(s): CV0971WW-CS12 (680-106200-20), CV0971WW-CS18 (680-106200-21), CV0971WW-CSD6 (680-106200-19), CV0005AC-CS12 (680-106200-24), CV0005AC-CS18 (680-106200-25), CV0005AC-CS24 (680-106200-26), CV0005AC-CS6 (680-106200-23), CV0748WW-CS12 (680-106200-28), CV0748WW-CS18 (680-106200-29), CV0748WW-CS24 (680-106200-30), CV0748WW-CS6 (680-106200-27), CV0971WW-CS24 (680-106200-22), CV0971WW-CS6 (680-106200-18 MSD).

Method(s) 8270D_LL_PAH: The following sample(s) was diluted due to the nature of the sample matrix: CV0005AC-CS6 (680-106200-23), CV0748WW-CS6 (680-106200-27), CV0971WW-CS6 (680-106200-18 MSD), CV0971WW-CS6 (680-106200-18). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Several analytes have recovery outside criteria low for the MS of sample CV0971WW-CS6 (680-106200-18) in batch 680-353862.

Several analytes have recovery outside criteria high for the MSD of sample CV0971WW-CS6 (680-106200-18) in batch 680-353862. Several analytes exceeded the RPD limit.

Refer to the QC report for details.

**METALS (ICP)**

Samples CV0971WW-CS6 (680-106200-18), CV0971WW-CSD6 (680-106200-19), CV0971WW-CS12 (680-106200-20), CV0971WW-CS18 (680-106200-21), CV0971WW-CS24 (680-106200-22), CV0005AC-CS6 (680-106200-23), CV0005AC-CS12 (680-106200-24), CV0005AC-CS18 (680-106200-25), CV0005AC-CS24 (680-106200-26), CV0748WW-CS6 (680-106200-27), CV0748WW-CS12 (680-106200-28), CV0748WW-CS18 (680-106200-29) and CV0748WW-CS24 (680-106200-30) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C.

Aluminum and Lead have recovery outside criteria low for the MS of sample CV0971WW-CS6 (680-106200-18) in batch 680-353949. Arsenic and Iron failed the recovery criteria high.

Iron recovery is outside criteria low for the MSD of sample CV0971WW-CS6 (680-106200-18) in batch 680-353949. Iron exceeded the RPD limit.

**PERCENT SOLIDS/MOISTURE**

Samples CV0971WW-CS6 (680-106200-18), CV0971WW-CSD6 (680-106200-19), CV0971WW-CS12 (680-106200-20), CV0971WW-CS18 (680-106200-21), CV0971WW-CS24 (680-106200-22), CV0005AC-CS6 (680-106200-23), CV0005AC-CS12 (680-106200-24), CV0005AC-CS18 (680-106200-25), CV0005AC-CS24 (680-106200-26), CV0748WW-CS6 (680-106200-27), CV0748WW-CS12 (680-106200-28), CV0748WW-CS18 (680-106200-29) and CV0748WW-CS24 (680-106200-30) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP.

# ATTACHMENT D

# QUALIFIED SAMPLE RESULTS

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971WW-CS6
Lab Sample ID: 680-106200-18
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 13:40
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 88.0

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 14000 | 20 | 10 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 28 | 2.0 | 0.59 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 39000 | 20 | 7.0 | mg/Kg | | J | 1 | 6010C |
| 7439-92-1 | Lead | 170 | 1.0 | 0.53 | mg/Kg | | J | 1 | 6010C |

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971WW-CSD6
Lab Sample ID: 680-106200-19
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 13:40
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 87.7

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 13000 | 21 | 10 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 29 | 2.1 | 0.61 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 41000 | 21 | 7.3 | mg/Kg | | J | 1 | 6010C |
| 7439-92-1 | Lead | 180 | 1.0 | 0.55 | mg/Kg | | | 1 | 6010C |

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971WW-CS12
Lab Sample ID: 680-106200-20
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 13:50
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 91.6

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 17000 | 19 | 9.3 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 16 | 1.9 | 0.55 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 36000 | 19 | 6.5 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 79 | 9.3 | 4.9 | mg/Kg | | | 10 | 6010C |

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971WW-CS18
Lab Sample ID: 680-106200-21
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 14:00
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 91.9

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 14000 | 20 | 9.8 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 25 | 2.0 | 0.58 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 42000 | 20 | 6.9 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 48 | 0.98 | 0.52 | mg/Kg | | | 1 | 6010C |

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971WW-CS24
Lab Sample ID: 680-106200-22
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 14:10
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 91.6

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 12000 | 21 | 11 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 47 | 2.1 | 0.63 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 37000 | 21 | 7.5 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 15 | 1.1 | 0.57 | mg/Kg | | | 1 | 6010C |

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0005AC-CS6
Lab Sample ID: 680-106200-23
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 10:10
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 91.7

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 9700 | 21 | 10 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 22 | 2.1 | 0.61 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 37000 | 21 | 7.2 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 210 | 1.0 | 0.55 | mg/Kg | | | 1 | 6010C |

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0005AC-CS12
Lab Sample ID: 680-106200-24
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 10:20
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 86.6

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 13000 | 20 | 9.9 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 28 | 2.0 | 0.58 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 34000 | 20 | 6.9 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 26 | 0.99 | 0.52 | mg/Kg | | | 1 | 6010C |

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0005AC-CS18
Lab Sample ID: 680-106200-25
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 10:30
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 94.5

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 14000 | 18 | 9.0 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 28 | 1.8 | 0.53 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 37000 | 18 | 6.3 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 33 | 0.90 | 0.48 | mg/Kg | | | 1 | 6010C |

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0005AC-CS24
Lab Sample ID: 680-106200-26
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 10:40
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 86.8

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 15000 | 23 | 12 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 33 | 2.3 | 0.68 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 44000 | 23 | 8.1 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 28 | 1.2 | 0.61 | mg/Kg | | | 1 | 6010C |

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0748WW-CS6
Lab Sample ID: 680-106200-27
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 12:40
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 90.1

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 11000 | 20 | 10 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 32 | 2.0 | 0.59 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 37000 | 20 | 7.0 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 100 | 1.0 | 0.53 | mg/Kg | | | 1 | 6010C |

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0748WW-CS12
Lab Sample ID: 680-106200-28
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 12:50
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 85.8

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 12000 | 23 | 11 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 43 | 2.3 | 0.67 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 41000 | 23 | 7.9 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 26 | 1.1 | 0.60 | mg/Kg | | | 1 | 6010C |

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0748WW-CS18
Lab Sample ID: 680-106200-29
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 13:00
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 84.2

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 13000 | 24 | 12 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 57 | 2.4 | 0.69 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 51000 | 24 | 8.2 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 22 | 1.2 | 0.62 | mg/Kg | | | 1 | 6010C |

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0748WW-CS24
Lab Sample ID: 680-106200-30
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 13:10
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 87.9

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 16000 | 20 | 9.8 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 27 | 2.0 | 0.58 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 56000 | 20 | 6.9 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 41 | 0.98 | 0.52 | mg/Kg | | | 1 | 6010C |

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

# Data Validation Checklist
# Semivolatile Organic Analyses

| | | | |
|---|---|---|---|
| Project: | 35TH Avenue Superfund Site | Project No: | 60430028; 1 |
| Laboratory: | TestAmerica – Savannah, GA | Job ID.: | 680-106200-2 |
| Method: | SW-846 8270D Low-Level (PAH) | Associated Samples: | Refer to **Attachment A** (Sample Summary) |
| Matrix: | Soil | Samples Collected: | 10/09/2014 |
| Reviewer: | Karen M Trujillo, URS Group, Inc. | Date: | 08/07/2015 |
| Concurrence[1]: | Jenine Abbassi, URS Group, Inc. | Date: | 08/14/2015 |

| Review Questions | Yes | No | N/A | Samples (Analytes) Affected/Comments | Flag |
|---|---|---|---|---|---|
| 1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ flag results. | ✓ | | | | |
| 2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples? | ✓ | | | | |
| 3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt? | | ✓ | | | |
| 4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis. | | ✓ | | | |
| 5. Were holding times met (≤7 and 14 days from collection to extraction for aqueous and solid samples, respectively; ≤40 days from extraction to analysis)? If not, then J/UJ flag sample results. If grossly (2x) exceeded, then flag J/R. | ✓ | | | | |
| 6. Were results for all project-specified target analytes reported? | ✓ | | | | |
| 7. Were project-specified Reporting Limits achieved for undiluted sample analyses? | ✓ | | | | |
| 8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J flag sample result. | ✓ | | | | |
| 9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)? | ✓ | | | | |
| 10. Were target analytes detected in the method blank? | | ✓ | | | |
| 11. Are equipment/rinsate blanks associated with every sample? If no, note in DV report. | | ✓ | | According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank is not associated with this sampling event. Blank contamination will be evaluated based on method blank results. | |
| 12. Were target analytes detected in equipment/rinsate blanks? | | | ✓ | | |
| 13. Were analytes detected in samples below the blank contamination action level? If yes, U flag positive sample results <5x associated blank concentration (10x for common blank contaminants–phthalates) | | | ✓ | Blank contamination does not exist. | |

[1] Independent technical reviewer

# Data Validation Checklist (Continued)

| Review Questions | Yes | No | N/A | Samples (Analytes) Affected/Comments | Flag |
|---|---|---|---|---|---|
| 14. Is a field duplicate associated with this Job? | ✓ | | | CV0971WW-CSD6 (680-106200-19) is a field duplicate of sample CV0971WW-CS6 (680-106200-18). | |
| 15. Was precision deemed acceptable as defined by the project plans? | ✓ | | | Refer to **Attachment B** (Field Duplicate Evaluation) | |
| 16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270D) met? If no, professional judgment may be applied to determine to what extent the data may be utilized. | ✓ | | | Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2. | |
| 17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized. | ✓ | | | | |
| 18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument?<br>• Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative.<br>• An initial calibration is to be associated with each sample analysis.<br>• A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument. | ✓ | | | • Instrument ID: CMSY<br>• Initial Calibration: 10/07/2014<br>• ICV: 10/07/14 @ 16:25<br>• CCV: 10/15/14 @ 13:05 & 10/16/2014 @ 09:29 | |
| 19. Were calibration results within laboratory/project specifications?<br>• ICAL (Criteria: $\leq$20 mean %RSD ($\leq$50% for poor performers), OR r$\geq$0.995, OR $r^2 \geq 0.99$, and RRF $\geq$0.050 ($\geq$0.010 for poor performers)):<br>  ○ If %RSD>20 (>50% for poor performers), or r <0.995, or $r^2$ <0.995, then J flag positive results and UJ flag non-detects<br>  ○ If mean RRF <0.050 (<0.010 for poor performers), then J flag positive results and R flag non-detects (unless the lab analyzed a detectability check standard)<br>• ICV and CCV (ICV Criteria: $\leq \pm$30%D; CCV Criteria: $\leq \pm$20%D ($\leq$50% for poor performers) and RF $\geq$0.050 ($\geq$0.010 for poor performers)):<br>  ○ If %D> Control Limit (>50% for poor performers), then J flag positive results and UJ flag non-detects<br>  ○ If RF <0.050 (<0.010 for poor performers), then UJ flag non-detected semivolatile target compounds | ✓ | | | | |
| 20. Was a LCS prepared for each batch and matrix? | ✓ | | | | |
| 21. Were LCS recoveries within lab control limits? If no, J flag positive results when %R >Upper Control Limit (UCL) and J/R flag results when %R <Lower Control Limit (LCL). | ✓ | | | | |
| 22. Were LCS/LCSD RPD within lab specifications? If no, J flag positive results and UJ flag non-detects | | | ✓ | LCS only | |
| 23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)? | ✓ | | | | |

# Data Validation Checklist (Continued)

| Review Questions | Yes | No | N/A | Samples (Analytes) Affected/Comments | Flag |
|---|---|---|---|---|---|
| 24. Is the MS/MSD parent sample a project-specific sample? | ✓ | ✓ | | • Batch 353328: 680-106200-18 (CV0971WW-CS6), MS/MSD<br>• Batch 353328: (Batch Sample), MS/MSD. Lab sample 680-106200-A-1 is a project-specific sample (CV0005Y-CS6) and results were reported under Job ID 680-106200-1. | |
| 25. For all analytes with native sample concentrations < 4 x spiking level, were MS and MSD recoveries within laboratory/project specifications? *Only QC results for project samples that are reported under this Job ID are evaluated.*<br>• If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible.<br>• If either MS or MSD recovery meets control limits, qualification of data is not warranted.<br>• MS and MSD %R<10: J and R Flag positive and ND results, respectively<br>• MS and MSD %R >10 and <LCL: J Flag positive and UJ flag non-detect results<br>• MS and MSD R% >UCL (or 140): J Flag positive results | | ✓ | | 680-106200-18 (CV0971WW-CS6):<br>• Benzo[a]anthracene MS and MSD @-21 and 200 %R (Lab/Project: 39-157)<br>• Benzo[a]pyrene MS and MSD @-2 and 201 %R (Lab/Project: 41-158)<br>• Benzo[g,h,i]perylene MS and MSD @-0.6 and 175 %R (Lab/Project: 32-150)<br>• Benzo[k]fluoranthene MS and MSD @33 and 167 %R (Lab/Project: 38-148)<br>• Indeno[1,2,3-cd]pyrene MS and MSD @26 and 182 %R (Lab/Project: 35-148)<br>• Phenanthrene MS and MSD @-56 and 315 %R (Lab/Project: 40-135%R)<br><br>Results for the above-mentioned analytes are estimated (J-flagged) in sample CV0971WW-CS6 and field duplicate CV0971WW-CD6 (680-106200-19) due to matrix interference.<br><br>Qualification of CV0971WW-CS6 data is not warranted for the following analyte, as the MSD recovery met control limits:<br>• Dibenz(a,h)anthracene MS and MSD @-13 and 76 %R (Lab/Project: 32-155) | J |
| 26. For all analytes with native sample concentrations < 4 x spiking level, were laboratory criteria met for precision during the MS and MSD analyses? *Only QC results for project samples that are reported under this Job ID are evaluated.*<br>• If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible.<br>• If %RPD > UCL, J flag positive result and UJ flag non-detect result | | ✓ | | 680-106200-18 (CV0971WW-CS6):<br>• Benzo[g,h,i]perlyene @ 53%RPD (Lab/Project: <50%RPD)<br>• Chrysene @ 57%RPD (Lab/Project: <50%RPD)<br>• Dibenz(a,h)anthracene @ 76%RPD (Lab/Project: <50%RPD)<br>• Fluoranthene @ 59%RPD (Lab/Project: <50%RPD)<br>• Indeno[1,2,3-cd]pyrene @ 53%RPD (Lab/Project: <50%RPD)<br>• Phenanthrene @ 81%RPD (Lab/Project: <50%RPD)<br>• Pyrene @ 62%RPD (Lab/Project: <50%RPD)<br><br>Results for the above-mentioned analytes are estimated (J-flagged) in sample CV0971WW-CS6 and field duplicate CV0971WW-CD6 (680-106200-19) due to matrix interference. | J |
| 27. Were surrogate recoveries within lab/project specifications?<br>• If %R for 1 Acid or BN surrogates <10, then J flag positive and R flag non-detect associated sample results (i.e., acid or BN results)<br>• If 2 or more Acid or BN %R >UCL, then J flag positive associated sample results (i.e., acid or BN results)<br>• If 2 or more Acid or BN %R ≥10%, but <LCL, then J flag | | ✓ | | Surrogate o-terphenyl was not recovered (0%) during the diluted analysis of samples 680-106200-18 through -21, -23, and -27. Qualification of sample results is not warranted, as the surrogate compound was diluted out of the samples. | |

# Data Validation Checklist (Continued)

| Review Questions | Yes | No | N/A | Samples (Analytes) Affected/Comments | Flag |
|---|---|---|---|---|---|
| positive and UJ flag non-detect associated sample results (i.e., acid or BN results)<br>• If 2 or more Acid or BN , with 1 %R >UCL and 1 %R ≥10%, but <LCL, then J flag positive and UJ flag non-detect associated sample results (i.e., acid or BN results) | | | | | |
| 28. Were internal standard (IS) results within lab/project specifications?<br>• If IS area counts are less than 50% of the midpoint calibration standard, then J flag positive and UJ flag non-detect associated sample results<br>• If IS area counts are greater than 100% of the midpoint calibration standard, then J flag positive results<br>• If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J flag positive and R flag non-detect results<br>• If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R flag associated data.<br>• The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met. | ✓ | | | | |
| 29. Were lab comments included in report? | ✓ | | | Refer to **Attachment C** (Case Narrative) | |

**Comments:** The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review* (EPA, October 1999) and *USEPA CLP NFG for Low Concentration Organic Methods Data Review* (EPA, June 2001). Sample results have been qualified based on the results of the data review process (**Attachment D**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.

**DV Flag Definitions:**

J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
R The sample results are unusable. The analyte may or may not be present in the sample.
U The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
UJ The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

# ATTACHMENT A

# SAMPLE SUMMARY

# SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106200-2
Sdg Number: 680-106200-02

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 680-106200-18 | CV0971WW-CS6 | Solid | 10/09/2014 1340 | 10/11/2014 0933 |
| 680-106200-18MS | CV0971WW-CS6 | Solid | 10/09/2014 1340 | 10/11/2014 0933 |
| 680-106200-18MSD | CV0971WW-CS6 | Solid | 10/09/2014 1340 | 10/11/2014 0933 |
| 680-106200-19 | CV0971WW-CSD6 | Solid | 10/09/2014 1340 | 10/11/2014 0933 |
| 680-106200-20 | CV0971WW-CS12 | Solid | 10/09/2014 1350 | 10/11/2014 0933 |
| 680-106200-21 | CV0971WW-CS18 | Solid | 10/09/2014 1400 | 10/11/2014 0933 |
| 680-106200-22 | CV0971WW-CS24 | Solid | 10/09/2014 1410 | 10/11/2014 0933 |
| 680-106200-23 | CV0005AC-CS6 | Solid | 10/09/2014 1010 | 10/11/2014 0933 |
| 680-106200-24 | CV0005AC-CS12 | Solid | 10/09/2014 1020 | 10/11/2014 0933 |
| 680-106200-25 | CV0005AC-CS18 | Solid | 10/09/2014 1030 | 10/11/2014 0933 |
| 680-106200-26 | CV0005AC-CS24 | Solid | 10/09/2014 1040 | 10/11/2014 0933 |
| 680-106200-27 | CV0748WW-CS6 | Solid | 10/09/2014 1240 | 10/11/2014 0933 |
| 680-106200-28 | CV0748WW-CS12 | Solid | 10/09/2014 1250 | 10/11/2014 0933 |
| 680-106200-29 | CV0748WW-CS18 | Solid | 10/09/2014 1300 | 10/11/2014 0933 |
| 680-106200-30 | CV0748WW-CS24 | Solid | 10/09/2014 1310 | 10/11/2014 0933 |

# ATTACHMENT B

# FIELD DUPLICATE EVALUATION

## Evaluation of Field Duplicate Results

**Attachment B**

| Analyte | CV0971WW-CS6 680-106200-18 | | RL | CV0971WW-CSD6 | | RL | Unit | Avg. RLx5 | RPD | Absolute difference | 2x Avg RL | Action |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-Methylnaphthalene | 99 | | 76 | 120 | J | 150 | µg/kg | 565 | NA | 21 | 226 | None, absolute difference ≤ 2x Avg RL |
| 2-Methylnaphthalene | 110 | | 76 | 130 | J | 150 | µg/kg | 565 | NA | 20 | 226 | None, absolute difference ≤ 2x Avg RL |
| Acenaphthene | 64 | | 76 | 96 | J | 150 | µg/kg | 565 | NA | 32 | 226 | None, absolute difference ≤ 2x Avg RL |
| Acenaphthylene | 160 | | 76 | 190 | | 150 | µg/kg | 565 | NA | 30 | 226 | None, absolute difference ≤ 2x Avg RL |
| Anthracene | 230 | | 76 | 200 | | 150 | µg/kg | 565 | NA | 30 | 226 | None, absolute difference ≤ 2x Avg RL |
| Benzo(a)anthracene | 1400 | | 76 | 1100 | | 150 | µg/kg | 565 | 24 | NA | NA | None, RPD ≤ 50% |
| Benzo(a)pyrene | 1300 | | 76 | 1300 | | 150 | µg/kg | 565 | 0 | NA | NA | None, RPD ≤ 50% |
| Benzo(b)fluoranthene | 1900 | | 76 | 2000 | | 150 | µg/kg | 565 | 5 | NA | NA | None, RPD ≤ 50% |
| Benzo(g,h,i)perylene | 930 | | 76 | 830 | | 150 | µg/kg | 565 | 11 | NA | NA | None, RPD ≤ 50% |
| Benzo(k)fluoranthene | 870 | | 76 | 690 | | 150 | µg/kg | 565 | 23 | NA | NA | None, RPD ≤ 50% |
| Chrysene | 1600 | | 76 | 1500 | | 150 | µg/kg | 565 | 6 | NA | NA | None, RPD ≤ 50% |
| Dibenzo(a,h)anthracene | 450 | | 76 | 310 | | 150 | µg/kg | 565 | NA | 140 | 226 | None, absolute difference ≤ 2x Avg RL |
| Fluoranthene | 2400 | | 76 | 1900 | | 150 | µg/kg | 565 | 23 | NA | NA | None, RPD ≤ 50% |
| Fluorene | 81 | | 76 | 85 | J | 150 | µg/kg | 565 | NA | 4 | 226 | None, absolute difference ≤ 2x Avg RL |
| Indeno(1,2,3-cd)pyrene | 720 | | 76 | 620 | | 150 | µg/kg | 565 | 15 | NA | NA | None, RPD ≤ 50% |
| Naphthalene | 100 | | 76 | 110 | J | 150 | µg/kg | 565 | NA | 10 | 226 | None, absolute difference ≤ 2x Avg RL |
| Phenanthrene | 1200 | | 76 | 920 | | 150 | µg/kg | 565 | **26** | NA | NA | None, RPD ≤ 50% |
| Pyrene | 2500 | | 76 | 2400 | | 150 | µg/kg | 565 | 4 | NA | NA | None, RPD ≤ 50% |

Note: If the analyte was not detected, then the cell was left blank.

µg/kg - micrograms per kilogram
J - Estimated value
NA - Not applicable
RL - Reporting limit
RPD - Relative percent difference

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

# ATTACHMENT C

# CASE NARRATIVE

# CASE NARRATIVE
## Client: Oneida Total Integrated Enterprises LLC
## Project: 35th Avenue Superfund Site
## Report Number: 680-106200-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

No additional analytical or quality issues were noted, other than those described below or in the Definitions/Glossary page.

**RECEIPT**

The samples were received on 10/11/2014 9:33 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.8º C, 1.8º C, 4.8º C and 5.2º C.

**SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH**

Samples CV0971WW-CS6 (680-106200-18), CV0971WW-CSD6 (680-106200-19), CV0971WW-CS12 (680-106200-20), CV0971WW-CS18 (680-106200-21), CV0971WW-CS24 (680-106200-22), CV0005AC-CS6 (680-106200-23), CV0005AC-CS12 (680-106200-24), CV0005AC-CS18 (680-106200-25), CV0005AC-CS24 (680-106200-26), CV0748WW-CS6 (680-106200-27), CV0748WW-CS12 (680-106200-28), CV0748WW-CS18 (680-106200-29) and CV0748WW-CS24 (680-106200-30) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW846 Method 8270D.

Method(s) 8270D_LL_PAH: Manual integration was performed on the following sample(s): CV0971WW-CS12 (680-106200-20), CV0971WW-CS18 (680-106200-21), CV0971WW-CSD6 (680-106200-19), CV0005AC-CS12 (680-106200-24), CV0005AC-CS18 (680-106200-25), CV0005AC-CS24 (680-106200-26), CV0005AC-CS6 (680-106200-23), CV0748WW-CS12 (680-106200-28), CV0748WW-CS18 (680-106200-29), CV0748WW-CS24 (680-106200-30), CV0748WW-CS6 (680-106200-27), CV0971WW-CS24 (680-106200-22), CV0971WW-CS6 (680-106200-18 MSD).

Method(s) 8270D_LL_PAH: The following sample(s) was diluted due to the nature of the sample matrix: CV0005AC-CS6 (680-106200-23), CV0748WW-CS6 (680-106200-27), CV0971WW-CS6 (680-106200-18 MSD), CV0971WW-CS6 (680-106200-18). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Several analytes have recovery outside criteria low for the MS of sample CV0971WW-CS6 (680-106200-18) in batch 680-353862.

Several analytes have recovery outside criteria high for the MSD of sample CV0971WW-CS6 (680-106200-18) in batch 680-353862. Several analytes exceeded the RPD limit.

Refer to the QC report for details.

**METALS (ICP)**

Samples CV0971WW-CS6 (680-106200-18), CV0971WW-CSD6 (680-106200-19), CV0971WW-CS12 (680-106200-20), CV0971WW-CS18 (680-106200-21), CV0971WW-CS24 (680-106200-22), CV0005AC-CS6 (680-106200-23), CV0005AC-CS12 (680-106200-24), CV0005AC-CS18 (680-106200-25), CV0005AC-CS24 (680-106200-26), CV0748WW-CS6 (680-106200-27), CV0748WW-CS12 (680-106200-28), CV0748WW-CS18 (680-106200-29) and CV0748WW-CS24 (680-106200-30) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C.

Aluminum and Lead have recovery outside criteria low for the MS of sample CV0971WW-CS6 (680-106200-18) in batch 680-353949. Arsenic and Iron failed the recovery criteria high.

Iron recovery is outside criteria low for the MSD of sample CV0971WW-CS6 (680-106200-18) in batch 680-353949. Iron exceeded the RPD limit.

**PERCENT SOLIDS/MOISTURE**

Samples CV0971WW-CS6 (680-106200-18), CV0971WW-CSD6 (680-106200-19), CV0971WW-CS12 (680-106200-20), CV0971WW-CS18 (680-106200-21), CV0971WW-CS24 (680-106200-22), CV0005AC-CS6 (680-106200-23), CV0005AC-CS12 (680-106200-24), CV0005AC-CS18 (680-106200-25), CV0005AC-CS24 (680-106200-26), CV0748WW-CS6 (680-106200-27), CV0748WW-CS12 (680-106200-28), CV0748WW-CS18 (680-106200-29) and CV0748WW-CS24 (680-106200-30) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP.

# ATTACHMENT D

# QUALIFIED SAMPLE RESULTS

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0971WW-CS6 | Lab Sample ID: 680-106200-18

Matrix: Solid | Lab File ID: 1YJ1611.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 13:40

Extract. Method: 3546 | Date Extracted: 10/15/2014 10:01

Sample wt/vol: 30.04(g) | Date Analyzed: 10/16/2014 13:12

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 12.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353862 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 64 | J | 76 | 37 |
| 208-96-8 | Acenaphthylene | 160 | | 76 | 37 |
| 120-12-7 | Anthracene | 230 | | 76 | 37 |
| 56-55-3 | Benzo[a]anthracene | 1400 | J | 76 | 37 |
| 50-32-8 | Benzo[a]pyrene | 1300 | J | 76 | 14 |
| 205-99-2 | Benzo[b]fluoranthene | 1900 | | 76 | 37 |
| 191-24-2 | Benzo[g,h,i]perylene | 930 | J | 76 | 37 |
| 207-08-9 | Benzo[k]fluoranthene | 870 | J | 76 | 23 |
| 218-01-9 | Chrysene | 1600 | J | 76 | 37 |
| 53-70-3 | Dibenz(a,h)anthracene | 450 | J | 76 | 37 |
| 206-44-0 | Fluoranthene | 2400 | J | 76 | 37 |
| 86-73-7 | Fluorene | 81 | | 76 | 37 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 720 | J | 76 | 37 |
| 90-12-0 | 1-Methylnaphthalene | 99 | | 76 | 35 |
| 91-57-6 | 2-Methylnaphthalene | 110 | | 76 | 37 |
| 91-20-3 | Naphthalene | 100 | | 76 | 37 |
| 85-01-8 | Phenanthrene | 1200 | J | 76 | 27 |
| 129-00-0 | Pyrene | 2500 | J | 76 | 37 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 0 | D | 36-131 |



Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0971WW-CSD6 | Lab Sample ID: 680-106200-19

Matrix: Solid | Lab File ID: 2YJ1528.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 13:40

Extract. Method: 3546 | Date Extracted: 10/14/2014 10:14

Sample wt/vol: 30.03(g) | Date Analyzed: 10/15/2014 22:44

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 12.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353689 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 96 | J | 150 | 75 |
| 208-96-8 | Acenaphthylene | 190 | | 150 | 75 |
| 120-12-7 | Anthracene | 200 | | 150 | 75 |
| 56-55-3 | Benzo[a]anthracene | 1100 | J | 150 | 75 |
| 50-32-8 | Benzo[a]pyrene | 1300 | J | 150 | 27 |
| 205-99-2 | Benzo[b]fluoranthene | 2000 | | 150 | 75 |
| 191-24-2 | Benzo[g,h,i]perylene | 830 | J | 150 | 75 |
| 207-08-9 | Benzo[k]fluoranthene | 690 | J | 150 | 46 |
| 218-01-9 | Chrysene | 1500 | J | 150 | 75 |
| 53-70-3 | Dibenz(a,h)anthracene | 310 | J | 150 | 75 |
| 206-44-0 | Fluoranthene | 1900 | J | 150 | 75 |
| 86-73-7 | Fluorene | 85 | J | 150 | 75 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 620 | J | 150 | 75 |
| 90-12-0 | 1-Methylnaphthalene | 120 | J | 150 | 71 |
| 91-57-6 | 2-Methylnaphthalene | 130 | J | 150 | 75 |
| 91-20-3 | Naphthalene | 110 | J | 150 | 75 |
| 85-01-8 | Phenanthrene | 920 | J | 150 | 55 |
| 129-00-0 | Pyrene | 2400 | J | 150 | 75 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 0 | D | 36-131 |



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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0971WW-CS12 | Lab Sample ID: 680-106200-20

Matrix: Solid | Lab File ID: 2YJ1529.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 13:50

Extract. Method: 3546 | Date Extracted: 10/14/2014 10:14

Sample wt/vol: 30.03(g) | Date Analyzed: 10/15/2014 23:06

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353689 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 73 | U | 73 | 36 |
| 208-96-8 | Acenaphthylene | 73 | U | 73 | 36 |
| 120-12-7 | Anthracene | 73 | U | 73 | 36 |
| 56-55-3 | Benzo[a]anthracene | 51 | J | 73 | 36 |
| 50-32-8 | Benzo[a]pyrene | 55 | J | 73 | 13 |
| 205-99-2 | Benzo[b]fluoranthene | 78 | | 73 | 36 |
| 191-24-2 | Benzo[g,h,i]perylene | 44 | J | 73 | 36 |
| 207-08-9 | Benzo[k]fluoranthene | 36 | J | 73 | 22 |
| 218-01-9 | Chrysene | 67 | J | 73 | 36 |
| 53-70-3 | Dibenz(a,h)anthracene | 73 | U | 73 | 36 |
| 206-44-0 | Fluoranthene | 80 | | 73 | 36 |
| 86-73-7 | Fluorene | 73 | U | 73 | 36 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 73 | U | 73 | 36 |
| 90-12-0 | 1-Methylnaphthalene | 73 | U | 73 | 34 |
| 91-57-6 | 2-Methylnaphthalene | 73 | U | 73 | 36 |
| 91-20-3 | Naphthalene | 73 | U | 73 | 36 |
| 85-01-8 | Phenanthrene | 63 | J | 73 | 26 |
| 129-00-0 | Pyrene | 100 | | 73 | 36 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 0 | D | 36-131 |



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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0971WW-CS18 | Lab Sample ID: 680-106200-21

Matrix: Solid | Lab File ID: 2YJ1530.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 14:00

Extract. Method: 3546 | Date Extracted: 10/14/2014 10:14

Sample wt/vol: 30.08(g) | Date Analyzed: 10/15/2014 23:28

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353689 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 73 | U | 73 | 36 |
| 208-96-8 | Acenaphthylene | 73 | U | 73 | 36 |
| 120-12-7 | Anthracene | 73 | U | 73 | 36 |
| 56-55-3 | Benzo[a]anthracene | 170 | | 73 | 36 |
| 50-32-8 | Benzo[a]pyrene | 180 | | 73 | 13 |
| 205-99-2 | Benzo[b]fluoranthene | 260 | | 73 | 36 |
| 191-24-2 | Benzo[g,h,i]perylene | 130 | | 73 | 36 |
| 207-08-9 | Benzo[k]fluoranthene | 86 | | 73 | 22 |
| 218-01-9 | Chrysene | 200 | | 73 | 36 |
| 53-70-3 | Dibenz(a,h)anthracene | 68 | J | 73 | 36 |
| 206-44-0 | Fluoranthene | 320 | | 73 | 36 |
| 86-73-7 | Fluorene | 73 | U | 73 | 36 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 92 | | 73 | 36 |
| 90-12-0 | 1-Methylnaphthalene | 73 | U | 73 | 34 |
| 91-57-6 | 2-Methylnaphthalene | 73 | U | 73 | 36 |
| 91-20-3 | Naphthalene | 73 | U | 73 | 36 |
| 85-01-8 | Phenanthrene | 170 | | 73 | 26 |
| 129-00-0 | Pyrene | 340 | | 73 | 36 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 0 | D | 36-131 |



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FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0971WW-CS24 | Lab Sample ID: 680-106200-22

Matrix: Solid | Lab File ID: 1YJ1612.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 14:10

Extract. Method: 3546 | Date Extracted: 10/15/2014 10:01

Sample wt/vol: 30.01(g) | Date Analyzed: 10/16/2014 13:34

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353862 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 7.3 | U | 7.3 | 3.6 |
| 208-96-8 | Acenaphthylene | 7.3 | U | 7.3 | 3.6 |
| 120-12-7 | Anthracene | 7.3 | U | 7.3 | 3.6 |
| 56-55-3 | Benzo[a]anthracene | 24 | | 7.3 | 3.6 |
| 50-32-8 | Benzo[a]pyrene | 7.1 | J | 7.3 | 1.3 |
| 205-99-2 | Benzo[b]fluoranthene | 37 | | 7.3 | 3.6 |
| 191-24-2 | Benzo[g,h,i]perylene | 20 | | 7.3 | 3.6 |
| 207-08-9 | Benzo[k]fluoranthene | 12 | | 7.3 | 2.2 |
| 218-01-9 | Chrysene | 25 | | 7.3 | 3.6 |
| 53-70-3 | Dibenz(a,h)anthracene | 6.4 | J | 7.3 | 3.6 |
| 206-44-0 | Fluoranthene | 38 | | 7.3 | 3.6 |
| 86-73-7 | Fluorene | 7.3 | U | 7.3 | 3.6 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 14 | | 7.3 | 3.6 |
| 90-12-0 | 1-Methylnaphthalene | 7.3 | U | 7.3 | 3.4 |
| 91-57-6 | 2-Methylnaphthalene | 7.3 | U | 7.3 | 3.6 |
| 91-20-3 | Naphthalene | 7.3 | U | 7.3 | 3.6 |
| 85-01-8 | Phenanthrene | 17 | | 7.3 | 2.6 |
| 129-00-0 | Pyrene | 38 | | 7.3 | 3.6 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 100 | | 36-131 |



Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0005AC-CS6 | Lab Sample ID: 680-106200-23

Matrix: Solid | Lab File ID: 1YJ1613.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 10:10

Extract. Method: 3546 | Date Extracted: 10/15/2014 10:01

Sample wt/vol: 30.05(g) | Date Analyzed: 10/16/2014 13:56

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353862 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 73 | U | 73 | 36 |
| 208-96-8 | Acenaphthylene | 73 | U | 73 | 36 |
| 120-12-7 | Anthracene | 73 | U | 73 | 36 |
| 56-55-3 | Benzo[a]anthracene | 180 | | 73 | 36 |
| 50-32-8 | Benzo[a]pyrene | 220 | | 73 | 13 |
| 205-99-2 | Benzo[b]fluoranthene | 360 | | 73 | 36 |
| 191-24-2 | Benzo[g,h,i]perylene | 180 | | 73 | 36 |
| 207-08-9 | Benzo[k]fluoranthene | 110 | | 73 | 22 |
| 218-01-9 | Chrysene | 240 | | 73 | 36 |
| 53-70-3 | Dibenz(a,h)anthracene | 64 | J | 73 | 36 |
| 206-44-0 | Fluoranthene | 270 | | 73 | 36 |
| 86-73-7 | Fluorene | 73 | U | 73 | 36 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 140 | | 73 | 36 |
| 90-12-0 | 1-Methylnaphthalene | 52 | J | 73 | 34 |
| 91-57-6 | 2-Methylnaphthalene | 59 | J | 73 | 36 |
| 91-20-3 | Naphthalene | 42 | J | 73 | 36 |
| 85-01-8 | Phenanthrene | 170 | | 73 | 26 |
| 129-00-0 | Pyrene | 290 | | 73 | 36 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 0 | D | 36-131 |



Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0005AC-CS12 | Lab Sample ID: 680-106200-24

Matrix: Solid | Lab File ID: 1YJ1614.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 10:20

Extract. Method: 3546 | Date Extracted: 10/15/2014 10:01

Sample wt/vol: 30.05(g) | Date Analyzed: 10/16/2014 14:19

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 13.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353862 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 7.7 | U | 7.7 | 3.8 |
| 208-96-8 | Acenaphthylene | 7.7 | U | 7.7 | 3.8 |
| 120-12-7 | Anthracene | 7.7 | U | 7.7 | 3.8 |
| 56-55-3 | Benzo[a]anthracene | 22 | | 7.7 | 3.8 |
| 50-32-8 | Benzo[a]pyrene | 15 | | 7.7 | 1.4 |
| 205-99-2 | Benzo[b]fluoranthene | 23 | | 7.7 | 3.8 |
| 191-24-2 | Benzo[g,h,i]perylene | 8.9 | | 7.7 | 3.8 |
| 207-08-9 | Benzo[k]fluoranthene | 7.9 | | 7.7 | 2.3 |
| 218-01-9 | Chrysene | 20 | | 7.7 | 3.8 |
| 53-70-3 | Dibenz(a,h)anthracene | 4.7 | J | 7.7 | 3.8 |
| 206-44-0 | Fluoranthene | 35 | | 7.7 | 3.8 |
| 86-73-7 | Fluorene | 7.7 | U | 7.7 | 3.8 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 7.4 | J | 7.7 | 3.8 |
| 90-12-0 | 1-Methylnaphthalene | 7.7 | U | 7.7 | 3.6 |
| 91-57-6 | 2-Methylnaphthalene | 7.7 | U | 7.7 | 3.8 |
| 91-20-3 | Naphthalene | 7.7 | U | 7.7 | 3.8 |
| 85-01-8 | Phenanthrene | 9.5 | | 7.7 | 2.8 |
| 129-00-0 | Pyrene | 32 | | 7.7 | 3.8 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 94 | | 36-131 |



Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0005AC-CS18 | Lab Sample ID: 680-106200-25

Matrix: Solid | Lab File ID: 1YJ1615.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 10:30

Extract. Method: 3546 | Date Extracted: 10/15/2014 10:01

Sample wt/vol: 30.01(g) | Date Analyzed: 10/16/2014 17:00

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 5.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353862 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 7.1 | U | 7.1 | 3.5 |
| 208-96-8 | Acenaphthylene | 7.1 | U | 7.1 | 3.5 |
| 120-12-7 | Anthracene | 7.1 | U | 7.1 | 3.5 |
| 56-55-3 | Benzo[a]anthracene | 23 | | 7.1 | 3.5 |
| 50-32-8 | Benzo[a]pyrene | 22 | | 7.1 | 1.3 |
| 205-99-2 | Benzo[b]fluoranthene | 36 | | 7.1 | 3.5 |
| 191-24-2 | Benzo[g,h,i]perylene | 20 | | 7.1 | 3.5 |
| 207-08-9 | Benzo[k]fluoranthene | 14 | | 7.1 | 2.1 |
| 218-01-9 | Chrysene | 27 | | 7.1 | 3.5 |
| 53-70-3 | Dibenz(a,h)anthracene | 7.7 | | 7.1 | 3.5 |
| 206-44-0 | Fluoranthene | 32 | | 7.1 | 3.5 |
| 86-73-7 | Fluorene | 7.1 | U | 7.1 | 3.5 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 15 | | 7.1 | 3.5 |
| 90-12-0 | 1-Methylnaphthalene | 5.2 | J | 7.1 | 3.3 |
| 91-57-6 | 2-Methylnaphthalene | 7.2 | | 7.1 | 3.5 |
| 91-20-3 | Naphthalene | 4.8 | J | 7.1 | 3.5 |
| 85-01-8 | Phenanthrene | 19 | | 7.1 | 2.5 |
| 129-00-0 | Pyrene | 31 | | 7.1 | 3.5 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 114 | | 36-131 |



Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0005AC-CS24 | Lab Sample ID: 680-106200-26

Matrix: Solid | Lab File ID: 1YJ1616.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 10:40

Extract. Method: 3546 | Date Extracted: 10/15/2014 10:01

Sample wt/vol: 30.02(g) | Date Analyzed: 10/16/2014 17:22

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 13.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353862 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 7.7 | U | 7.7 | 3.8 |
| 208-96-8 | Acenaphthylene | 7.7 | U | 7.7 | 3.8 |
| 120-12-7 | Anthracene | 7.7 | U | 7.7 | 3.8 |
| 56-55-3 | Benzo[a]anthracene | 5.1 | J | 7.7 | 3.8 |
| 50-32-8 | Benzo[a]pyrene | 5.7 | J | 7.7 | 1.4 |
| 205-99-2 | Benzo[b]fluoranthene | 8.6 | | 7.7 | 3.8 |
| 191-24-2 | Benzo[g,h,i]perylene | 5.5 | J | 7.7 | 3.8 |
| 207-08-9 | Benzo[k]fluoranthene | 3.2 | J | 7.7 | 2.3 |
| 218-01-9 | Chrysene | 7.0 | J | 7.7 | 3.8 |
| 53-70-3 | Dibenz(a,h)anthracene | 7.7 | U | 7.7 | 3.8 |
| 206-44-0 | Fluoranthene | 8.1 | | 7.7 | 3.8 |
| 86-73-7 | Fluorene | 7.7 | U | 7.7 | 3.8 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 4.4 | J | 7.7 | 3.8 |
| 90-12-0 | 1-Methylnaphthalene | 7.7 | U | 7.7 | 3.6 |
| 91-57-6 | 2-Methylnaphthalene | 7.7 | U | 7.7 | 3.8 |
| 91-20-3 | Naphthalene | 7.7 | U | 7.7 | 3.8 |
| 85-01-8 | Phenanthrene | 5.5 | J | 7.7 | 2.8 |
| 129-00-0 | Pyrene | 8.2 | | 7.7 | 3.8 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 87 | | 36-131 |



Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0748WW-CS6 | Lab Sample ID: 680-106200-27

Matrix: Solid | Lab File ID: 1YJ1617.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 12:40

Extract. Method: 3546 | Date Extracted: 10/15/2014 10:01

Sample wt/vol: 30.02(g) | Date Analyzed: 10/16/2014 17:44

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 9.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353862 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 74 | U | 74 | 37 |
| 208-96-8 | Acenaphthylene | 58 | J | 74 | 37 |
| 120-12-7 | Anthracene | 120 | | 74 | 37 |
| 56-55-3 | Benzo[a]anthracene | 510 | | 74 | 37 |
| 50-32-8 | Benzo[a]pyrene | 430 | | 74 | 13 |
| 205-99-2 | Benzo[b]fluoranthene | 620 | | 74 | 37 |
| 191-24-2 | Benzo[g,h,i]perylene | 300 | | 74 | 37 |
| 207-08-9 | Benzo[k]fluoranthene | 260 | | 74 | 22 |
| 218-01-9 | Chrysene | 560 | | 74 | 37 |
| 53-70-3 | Dibenz(a,h)anthracene | 150 | | 74 | 37 |
| 206-44-0 | Fluoranthene | 1100 | | 74 | 37 |
| 86-73-7 | Fluorene | 50 | J | 74 | 37 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 240 | | 74 | 37 |
| 90-12-0 | 1-Methylnaphthalene | 49 | J | 74 | 34 |
| 91-57-6 | 2-Methylnaphthalene | 59 | J | 74 | 37 |
| 91-20-3 | Naphthalene | 43 | J | 74 | 37 |
| 85-01-8 | Phenanthrene | 690 | | 74 | 27 |
| 129-00-0 | Pyrene | 970 | | 74 | 37 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 0 | D | 36-131 |



Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0748WW-CS12 | Lab Sample ID: 680-106200-28

Matrix: Solid | Lab File ID: 1YJ1618.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 12:50

Extract. Method: 3546 | Date Extracted: 10/15/2014 10:01

Sample wt/vol: 30.04(g) | Date Analyzed: 10/16/2014 18:06

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 14.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353862 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 7.8 | U | 7.8 | 3.8 |
| 208-96-8 | Acenaphthylene | 7.8 | U | 7.8 | 3.8 |
| 120-12-7 | Anthracene | 7.8 | U | 7.8 | 3.8 |
| 56-55-3 | Benzo[a]anthracene | 6.9 | J | 7.8 | 3.8 |
| 50-32-8 | Benzo[a]pyrene | 7.8 | U | 7.8 | 1.4 |
| 205-99-2 | Benzo[b]fluoranthene | 13 | | 7.8 | 3.8 |
| 191-24-2 | Benzo[g,h,i]perylene | 8.2 | | 7.8 | 3.8 |
| 207-08-9 | Benzo[k]fluoranthene | 4.8 | J | 7.8 | 2.3 |
| 218-01-9 | Chrysene | 12 | | 7.8 | 3.8 |
| 53-70-3 | Dibenz(a,h)anthracene | 7.8 | U | 7.8 | 3.8 |
| 206-44-0 | Fluoranthene | 7.8 | | 7.8 | 3.8 |
| 86-73-7 | Fluorene | 7.8 | U | 7.8 | 3.8 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 5.6 | J | 7.8 | 3.8 |
| 90-12-0 | 1-Methylnaphthalene | 4.1 | J | 7.8 | 3.6 |
| 91-57-6 | 2-Methylnaphthalene | 5.0 | J | 7.8 | 3.8 |
| 91-20-3 | Naphthalene | 4.7 | J | 7.8 | 3.8 |
| 85-01-8 | Phenanthrene | 7.6 | J | 7.8 | 2.8 |
| 129-00-0 | Pyrene | 8.9 | | 7.8 | 3.8 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 107 | | 36-131 |



Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0748WW-CS18 | Lab Sample ID: 680-106200-29

Matrix: Solid | Lab File ID: 1YJ1619.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 13:00

Extract. Method: 3546 | Date Extracted: 10/15/2014 10:01

Sample wt/vol: 30.05(g) | Date Analyzed: 10/16/2014 18:28

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 15.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353862 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 7.9 | U | 7.9 | 3.9 |
| 208-96-8 | Acenaphthylene | 7.9 | U | 7.9 | 3.9 |
| 120-12-7 | Anthracene | 7.9 | U | 7.9 | 3.9 |
| 56-55-3 | Benzo[a]anthracene | 6.7 | J | 7.9 | 3.9 |
| 50-32-8 | Benzo[a]pyrene | 6.9 | J | 7.9 | 1.4 |
| 205-99-2 | Benzo[b]fluoranthene | 11 | | 7.9 | 3.9 |
| 191-24-2 | Benzo[g,h,i]perylene | 7.0 | J | 7.9 | 3.9 |
| 207-08-9 | Benzo[k]fluoranthene | 4.0 | J | 7.9 | 2.4 |
| 218-01-9 | Chrysene | 9.8 | | 7.9 | 3.9 |
| 53-70-3 | Dibenz(a,h)anthracene | 7.9 | U | 7.9 | 3.9 |
| 206-44-0 | Fluoranthene | 7.5 | J | 7.9 | 3.9 |
| 86-73-7 | Fluorene | 7.9 | U | 7.9 | 3.9 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 5.0 | J | 7.9 | 3.9 |
| 90-12-0 | 1-Methylnaphthalene | 6.2 | J | 7.9 | 3.7 |
| 91-57-6 | 2-Methylnaphthalene | 4.6 | J | 7.9 | 3.9 |
| 91-20-3 | Naphthalene | 7.9 | U | 7.9 | 3.9 |
| 85-01-8 | Phenanthrene | 15 | | 7.9 | 2.8 |
| 129-00-0 | Pyrene | 9.1 | | 7.9 | 3.9 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 115 | | 36-131 |



Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0748WW-CS24 | Lab Sample ID: 680-106200-30

Matrix: Solid | Lab File ID: 1YJ1620.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 13:10

Extract. Method: 3546 | Date Extracted: 10/15/2014 10:01

Sample wt/vol: 29.99(g) | Date Analyzed: 10/16/2014 18:51

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 12.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353862 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 7.6 | U | 7.6 | 3.8 |
| 208-96-8 | Acenaphthylene | 7.6 | U | 7.6 | 3.8 |
| 120-12-7 | Anthracene | 7.6 | U | 7.6 | 3.8 |
| 56-55-3 | Benzo[a]anthracene | 6.0 | J | 7.6 | 3.8 |
| 50-32-8 | Benzo[a]pyrene | 4.8 | J | 7.6 | 1.4 |
| 205-99-2 | Benzo[b]fluoranthene | 8.9 | | 7.6 | 3.8 |
| 191-24-2 | Benzo[g,h,i]perylene | 5.7 | J | 7.6 | 3.8 |
| 207-08-9 | Benzo[k]fluoranthene | 3.1 | J | 7.6 | 2.3 |
| 218-01-9 | Chrysene | 7.7 | | 7.6 | 3.8 |
| 53-70-3 | Dibenz(a,h)anthracene | 7.6 | U | 7.6 | 3.8 |
| 206-44-0 | Fluoranthene | 5.8 | J | 7.6 | 3.8 |
| 86-73-7 | Fluorene | 7.6 | U | 7.6 | 3.8 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 4.3 | J | 7.6 | 3.8 |
| 90-12-0 | 1-Methylnaphthalene | 3.8 | J | 7.6 | 3.5 |
| 91-57-6 | 2-Methylnaphthalene | 4.7 | J | 7.6 | 3.8 |
| 91-20-3 | Naphthalene | 4.6 | J | 7.6 | 3.8 |
| 85-01-8 | Phenanthrene | 7.6 | | 7.6 | 2.7 |
| 129-00-0 | Pyrene | 6.1 | J | 7.6 | 3.8 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 107 | | 36-131 |



Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)

# ANALYTICAL REPORT

Job Number: 680-106200-2

SDG Number: 680-106200-02

Job Description: 35th Avenue Superfund Site

For:
Oneida Total Integrated Enterprises LLC
1220 Kennestone Circle
Suite 106
Marietta, GA 30060

Attention: Ms. Limari F Krebs

Approved for release.
Lisa M Harvey
Project Manager II
10/21/2014 3:32 PM

Lisa M Harvey, Project Manager II
5102 LaRoche Avenue, Savannah, GA, 31404
(912)354-7858 e.3221
lisa.harvey@testamericainc.com
10/21/2014

The test results in this report meet NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted. Results pertain only to samples listed in this report. This report may not be reproduced, except in full, without the written approval of the laboratory. Questions should be directed to the person who signed this report.

Savannah Certifications and ID #s: A2LA: 0399.01; AL: 41450; ARDEQ: 88-0692; ARDOH; AZ: AZ0741; CA: 03217CA; CO; CT: PH0161; DE; FL: E87052; GA: 803; Guam; HI; IL: 200022; IN: C-GA-02; IA: 353; KS: E-10322; KY EPPC: 90084; KY UST; LA DEQ: 30690; LA DHH: LA080008; ME: 2008022; MD: 250; MA: M-GA006; MI: 9925; MS; NFESC: 249; NV: GA00006; NJ: GA769; NM; NY: 10842; NC DWQ: 269; NC DHHS: 13701; PA: 68-00474; PR: GA00006; RI: LAO00244; SC: 98001001; TN: TN0296; TX: T104704185; USEPA: GA00006; VT: VT-87052; VA: 00302; WA; WV DEP: 094; WV DHHR: 9950 C; WI DNR: 999819810; WY/EPAR8: 8TMS-Q

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# CASE NARRATIVE
## Client: Oneida Total Integrated Enterprises LLC
## Project: 35th Avenue Superfund Site
## Report Number: 680-106200-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

No additional analytical or quality issues were noted, other than those described below or in the Definitions/Glossary page.

**RECEIPT**

The samples were received on 10/11/2014 9:33 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.8º C, 1.8º C, 4.8º C and 5.2º C.

**SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH**

Samples CV0971WW-CS6 (680-106200-18), CV0971WW-CSD6 (680-106200-19), CV0971WW-CS12 (680-106200-20), CV0971WW-CS18 (680-106200-21), CV0971WW-CS24 (680-106200-22), CV0005AC-CS6 (680-106200-23), CV0005AC-CS12 (680-106200-24), CV0005AC-CS18 (680-106200-25), CV0005AC-CS24 (680-106200-26), CV0748WW-CS6 (680-106200-27), CV0748WW-CS12 (680-106200-28), CV0748WW-CS18 (680-106200-29) and CV0748WW-CS24 (680-106200-30) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW846 Method 8270D.

Method(s) 8270D_LL_PAH: Manual integration was performed on the following sample(s): CV0971WW-CS12 (680-106200-20), CV0971WW-CS18 (680-106200-21), CV0971WW-CSD6 (680-106200-19), CV0005AC-CS12 (680-106200-24), CV0005AC-CS18 (680-106200-25), CV0005AC-CS24 (680-106200-26), CV0005AC-CS6 (680-106200-23), CV0748WW-CS12 (680-106200-28), CV0748WW-CS18 (680-106200-29), CV0748WW-CS24 (680-106200-30), CV0748WW-CS6 (680-106200-27), CV0971WW-CS24 (680-106200-22), CV0971WW-CS6 (680-106200-18 MSD).

Method(s) 8270D_LL_PAH: The following sample(s) was diluted due to the nature of the sample matrix: CV0005AC-CS6 (680-106200-23), CV0748WW-CS6 (680-106200-27), CV0971WW-CS6 (680-106200-18 MSD), CV0971WW-CS6 (680-106200-18). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Several analytes have recovery outside criteria low for the MS of sample CV0971WW-CS6 (680-106200-18) in batch 680-353862.

Several analytes have recovery outside criteria high for the MSD of sample CV0971WW-CS6 (680-106200-18) in batch 680-353862. Several analytes exceeded the RPD limit.

Refer to the QC report for details.

**METALS (ICP)**

Samples CV0971WW-CS6 (680-106200-18), CV0971WW-CSD6 (680-106200-19), CV0971WW-CS12 (680-106200-20), CV0971WW-CS18 (680-106200-21), CV0971WW-CS24 (680-106200-22), CV0005AC-CS6 (680-106200-23), CV0005AC-CS12 (680-106200-24), CV0005AC-CS18 (680-106200-25), CV0005AC-CS24 (680-106200-26), CV0748WW-CS6 (680-106200-27), CV0748WW-CS12 (680-106200-28), CV0748WW-CS18 (680-106200-29) and CV0748WW-CS24 (680-106200-30) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C.

Aluminum and Lead have recovery outside criteria low for the MS of sample CV0971WW-CS6 (680-106200-18) in batch 680-353949. Arsenic and Iron failed the recovery criteria high.

Iron recovery is outside criteria low for the MSD of sample CV0971WW-CS6 (680-106200-18) in batch 680-353949. Iron exceeded the RPD limit.

**PERCENT SOLIDS/MOISTURE**

Samples CV0971WW-CS6 (680-106200-18), CV0971WW-CSD6 (680-106200-19), CV0971WW-CS12 (680-106200-20), CV0971WW-CS18 (680-106200-21), CV0971WW-CS24 (680-106200-22), CV0005AC-CS6 (680-106200-23), CV0005AC-CS12 (680-106200-24), CV0005AC-CS18 (680-106200-25), CV0005AC-CS24 (680-106200-26), CV0748WW-CS6 (680-106200-27), CV0748WW-CS12 (680-106200-28), CV0748WW-CS18 (680-106200-29) and CV0748WW-CS24 (680-106200-30) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP.

# SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106200-2
Sdg Number: 680-106200-02

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 680-106200-18 | CV0971WW-CS6 | Solid | 10/09/2014 1340 | 10/11/2014 0933 |
| 680-106200-18MS | CV0971WW-CS6 | Solid | 10/09/2014 1340 | 10/11/2014 0933 |
| 680-106200-18MSD | CV0971WW-CS6 | Solid | 10/09/2014 1340 | 10/11/2014 0933 |
| 680-106200-19 | CV0971WW-CSD6 | Solid | 10/09/2014 1340 | 10/11/2014 0933 |
| 680-106200-20 | CV0971WW-CS12 | Solid | 10/09/2014 1350 | 10/11/2014 0933 |
| 680-106200-21 | CV0971WW-CS18 | Solid | 10/09/2014 1400 | 10/11/2014 0933 |
| 680-106200-22 | CV0971WW-CS24 | Solid | 10/09/2014 1410 | 10/11/2014 0933 |
| 680-106200-23 | CV0005AC-CS6 | Solid | 10/09/2014 1010 | 10/11/2014 0933 |
| 680-106200-24 | CV0005AC-CS12 | Solid | 10/09/2014 1020 | 10/11/2014 0933 |
| 680-106200-25 | CV0005AC-CS18 | Solid | 10/09/2014 1030 | 10/11/2014 0933 |
| 680-106200-26 | CV0005AC-CS24 | Solid | 10/09/2014 1040 | 10/11/2014 0933 |
| 680-106200-27 | CV0748WW-CS6 | Solid | 10/09/2014 1240 | 10/11/2014 0933 |
| 680-106200-28 | CV0748WW-CS12 | Solid | 10/09/2014 1250 | 10/11/2014 0933 |
| 680-106200-29 | CV0748WW-CS18 | Solid | 10/09/2014 1300 | 10/11/2014 0933 |
| 680-106200-30 | CV0748WW-CS24 | Solid | 10/09/2014 1310 | 10/11/2014 0933 |

# METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106200-2
Sdg Number: 680-106200-02

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Solid** | | | |
| Semivolatile Organic Compounds (GC/MS) Low level PAH | TAL SAV | SW846 8270D_LL_PAH | |
| Microwave Extraction | TAL SAV | | SW846 3546 |
| Metals (ICP) | TAL SAV | SW846 6010C | |
| Preparation, Metals | TAL SAV | | SW846 3050B |
| Percent Moisture | TAL SAV | EPA Moisture | |

**Lab References:**

TAL SAV = TestAmerica Savannah

**Method References:**

EPA = US Environmental Protection Agency

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

# METHOD / ANALYST SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106200-2
Sdg Number: 680-106200-02

| Method | Analyst | Analyst ID |
|---|---|---|
| SW846 8270D_LL_PAH | Webb, Kevin M | KMW |
| SW846 6010C | Bland, Brian C | BCB |
| EPA Moisture | Kicklighter, Marilyn D | MDK |

# DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106200-2
Sdg Number: 680-106200-02

| Lab Section | Qualifier | Description |
|---|---|---|
| GC/MS Semi VOA | | |
| | U | Indicates the analyte was analyzed for but not detected. |
| | F1 | MS and/or MSD Recovery exceeds the control limits |
| | 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. |
| | F2 | MS/MSD RPD exceeds control limits |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| | D | Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples. |
| | D | Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D. |
| Metals | | |
| | U | Indicates the analyte was analyzed for but not detected. |
| | F1 | MS and/or MSD Recovery exceeds the control limits |
| | 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. |
| | F2 | MS/MSD RPD exceeds control limits |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| | V | Serial Dilution exceeds the control limits |

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106200-2
Sdg Number: 680-106200-02

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC/MS Semi VOA** | | | | | |
| **Prep Batch: 680-353328** | | | | | |
| LCS 680-353328/22-A | Lab Control Sample | T | Solid | 3546 | |
| MB 680-353328/21-A | Method Blank | T | Solid | 3546 | |
| 680-106200-A-1-D MS | Matrix Spike | T | Solid | 3546 | |
| 680-106200-A-1-E MSD | Matrix Spike Duplicate | T | Solid | 3546 | |
| 680-106200-19 | CV0971WW-CSD6 | T | Solid | 3546 | |
| 680-106200-20 | CV0971WW-CS12 | T | Solid | 3546 | |
| 680-106200-21 | CV0971WW-CS18 | T | Solid | 3546 | |
| **Prep Batch: 680-353477** | | | | | |
| LCS 680-353477/22-A | Lab Control Sample | T | Solid | 3546 | |
| MB 680-353477/21-A | Method Blank | T | Solid | 3546 | |
| 680-106200-18 | CV0971WW-CS6 | T | Solid | 3546 | |
| 680-106200-18MS | Matrix Spike | T | Solid | 3546 | |
| 680-106200-18MSD | Matrix Spike Duplicate | T | Solid | 3546 | |
| 680-106200-22 | CV0971WW-CS24 | T | Solid | 3546 | |
| 680-106200-23 | CV0005AC-CS6 | T | Solid | 3546 | |
| 680-106200-24 | CV0005AC-CS12 | T | Solid | 3546 | |
| 680-106200-25 | CV0005AC-CS18 | T | Solid | 3546 | |
| 680-106200-26 | CV0005AC-CS24 | T | Solid | 3546 | |
| 680-106200-27 | CV0748WW-CS6 | T | Solid | 3546 | |
| 680-106200-28 | CV0748WW-CS12 | T | Solid | 3546 | |
| 680-106200-29 | CV0748WW-CS18 | T | Solid | 3546 | |
| 680-106200-30 | CV0748WW-CS24 | T | Solid | 3546 | |
| **Analysis Batch:680-353689** | | | | | |
| LCS 680-353328/22-A | Lab Control Sample | T | Solid | 8270D_LL_PAH | 680-353328 |
| MB 680-353328/21-A | Method Blank | T | Solid | 8270D_LL_PAH | 680-353328 |
| 680-106200-A-1-D MS | Matrix Spike | T | Solid | 8270D_LL_PAH | 680-353328 |
| 680-106200-A-1-E MSD | Matrix Spike Duplicate | T | Solid | 8270D_LL_PAH | 680-353328 |
| 680-106200-19 | CV0971WW-CSD6 | T | Solid | 8270D_LL_PAH | 680-353328 |
| 680-106200-20 | CV0971WW-CS12 | T | Solid | 8270D_LL_PAH | 680-353328 |
| 680-106200-21 | CV0971WW-CS18 | T | Solid | 8270D_LL_PAH | 680-353328 |

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106200-2
Sdg Number: 680-106200-02

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC/MS Semi VOA** | | | | | |
| **Analysis Batch:680-353862** | | | | | |
| LCS 680-353477/22-A | Lab Control Sample | T | Solid | 8270D_LL_PAH | 680-353477 |
| MB 680-353477/21-A | Method Blank | T | Solid | 8270D_LL_PAH | 680-353477 |
| 680-106200-18 | CV0971WW-CS6 | T | Solid | 8270D_LL_PAH | 680-353477 |
| 680-106200-18MS | Matrix Spike | T | Solid | 8270D_LL_PAH | 680-353477 |
| 680-106200-18MSD | Matrix Spike Duplicate | T | Solid | 8270D_LL_PAH | 680-353477 |
| 680-106200-22 | CV0971WW-CS24 | T | Solid | 8270D_LL_PAH | 680-353477 |
| 680-106200-23 | CV0005AC-CS6 | T | Solid | 8270D_LL_PAH | 680-353477 |
| 680-106200-24 | CV0005AC-CS12 | T | Solid | 8270D_LL_PAH | 680-353477 |
| 680-106200-25 | CV0005AC-CS18 | T | Solid | 8270D_LL_PAH | 680-353477 |
| 680-106200-26 | CV0005AC-CS24 | T | Solid | 8270D_LL_PAH | 680-353477 |
| 680-106200-27 | CV0748WW-CS6 | T | Solid | 8270D_LL_PAH | 680-353477 |
| 680-106200-28 | CV0748WW-CS12 | T | Solid | 8270D_LL_PAH | 680-353477 |
| 680-106200-29 | CV0748WW-CS18 | T | Solid | 8270D_LL_PAH | 680-353477 |
| 680-106200-30 | CV0748WW-CS24 | T | Solid | 8270D_LL_PAH | 680-353477 |

**Report Basis**
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106200-2
Sdg Number: 680-106200-02

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **Metals** | | | | | |
| **Prep Batch: 680-353262** | | | | | |
| LCS 680-353262/2-A | Lab Control Sample | T | Solid | 3050B | |
| MB 680-353262/1-A | Method Blank | T | Solid | 3050B | |
| 680-106200-24 | CV0005AC-CS12 | T | Solid | 3050B | |
| 680-106200-A-51-A MS | Matrix Spike | T | Solid | 3050B | |
| 680-106200-A-51-B MSD | Matrix Spike Duplicate | T | Solid | 3050B | |
| **Prep Batch: 680-353312** | | | | | |
| LCS 680-353312/2-A | Lab Control Sample | T | Solid | 3050B | |
| MB 680-353312/1-A | Method Blank | T | Solid | 3050B | |
| 680-106200-A-1-A MS | Matrix Spike | T | Solid | 3050B | |
| 680-106200-A-1-B MSD | Matrix Spike Duplicate | T | Solid | 3050B | |
| 680-106200-20 | CV0971WW-CS12 | T | Solid | 3050B | |
| 680-106200-23 | CV0005AC-CS6 | T | Solid | 3050B | |
| 680-106200-25 | CV0005AC-CS18 | T | Solid | 3050B | |
| 680-106200-26 | CV0005AC-CS24 | T | Solid | 3050B | |
| 680-106200-28 | CV0748WW-CS12 | T | Solid | 3050B | |
| **Prep Batch: 680-353346** | | | | | |
| LCS 680-353346/2-A | Lab Control Sample | T | Solid | 3050B | |
| MB 680-353346/1-A | Method Blank | T | Solid | 3050B | |
| 680-106200-18 | CV0971WW-CS6 | T | Solid | 3050B | |
| 680-106200-18MS | Matrix Spike | T | Solid | 3050B | |
| 680-106200-18MSD | Matrix Spike Duplicate | T | Solid | 3050B | |
| 680-106200-19 | CV0971WW-CSD6 | T | Solid | 3050B | |
| 680-106200-21 | CV0971WW-CS18 | T | Solid | 3050B | |
| 680-106200-22 | CV0971WW-CS24 | T | Solid | 3050B | |
| 680-106200-27 | CV0748WW-CS6 | T | Solid | 3050B | |
| 680-106200-29 | CV0748WW-CS18 | T | Solid | 3050B | |
| 680-106200-30 | CV0748WW-CS24 | T | Solid | 3050B | |

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106200-2
Sdg Number: 680-106200-02

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **Metals** | | | | | |
| **Analysis Batch:680-353949** | | | | | |
| LCS 680-353262/2-A | Lab Control Sample | T | Solid | 6010C | 680-353262 |
| MB 680-353262/1-A | Method Blank | T | Solid | 6010C | 680-353262 |
| LCS 680-353346/2-A | Lab Control Sample | T | Solid | 6010C | 680-353346 |
| MB 680-353346/1-A | Method Blank | T | Solid | 6010C | 680-353346 |
| 680-106200-18 | CV0971WW-CS6 | T | Solid | 6010C | 680-353346 |
| 680-106200-18MS | Matrix Spike | T | Solid | 6010C | 680-353346 |
| 680-106200-18MSD | Matrix Spike Duplicate | T | Solid | 6010C | 680-353346 |
| 680-106200-19 | CV0971WW-CSD6 | T | Solid | 6010C | 680-353346 |
| 680-106200-21 | CV0971WW-CS18 | T | Solid | 6010C | 680-353346 |
| 680-106200-22 | CV0971WW-CS24 | T | Solid | 6010C | 680-353346 |
| 680-106200-24 | CV0005AC-CS12 | T | Solid | 6010C | 680-353262 |
| 680-106200-27 | CV0748WW-CS6 | T | Solid | 6010C | 680-353346 |
| 680-106200-29 | CV0748WW-CS18 | T | Solid | 6010C | 680-353346 |
| 680-106200-30 | CV0748WW-CS24 | T | Solid | 6010C | 680-353346 |
| 680-106200-A-51-A MS | Matrix Spike | T | Solid | 6010C | 680-353262 |
| 680-106200-A-51-B MSD | Matrix Spike Duplicate | T | Solid | 6010C | 680-353262 |
| **Analysis Batch:680-354233** | | | | | |
| LCS 680-353312/2-A | Lab Control Sample | T | Solid | 6010C | 680-353312 |
| MB 680-353312/1-A | Method Blank | T | Solid | 6010C | 680-353312 |
| 680-106200-A-1-A MS | Matrix Spike | T | Solid | 6010C | 680-353312 |
| 680-106200-A-1-B MSD | Matrix Spike Duplicate | T | Solid | 6010C | 680-353312 |
| 680-106200-20 | CV0971WW-CS12 | T | Solid | 6010C | 680-353312 |
| 680-106200-23 | CV0005AC-CS6 | T | Solid | 6010C | 680-353312 |
| 680-106200-25 | CV0005AC-CS18 | T | Solid | 6010C | 680-353312 |
| 680-106200-26 | CV0005AC-CS24 | T | Solid | 6010C | 680-353312 |
| 680-106200-28 | CV0748WW-CS12 | T | Solid | 6010C | 680-353312 |
| **Analysis Batch:680-354509** | | | | | |
| 680-106200-A-1-A MS | Matrix Spike | T | Solid | 6010C | 680-353312 |
| 680-106200-A-1-B MSD | Matrix Spike Duplicate | T | Solid | 6010C | 680-353312 |
| 680-106200-20 | CV0971WW-CS12 | T | Solid | 6010C | 680-353312 |

**Report Basis**
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106200-2
Sdg Number: 680-106200-02

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **General Chemistry** | | | | | |
| **Analysis Batch:680-353217** | | | | | |
| 680-106200-18 | CV0971WW-CS6 | T | Solid | Moisture | |
| 680-106200-18MS | Matrix Spike | T | Solid | Moisture | |
| 680-106200-18MSD | Matrix Spike Duplicate | T | Solid | Moisture | |
| 680-106200-19 | CV0971WW-CSD6 | T | Solid | Moisture | |
| 680-106200-20 | CV0971WW-CS12 | T | Solid | Moisture | |
| 680-106200-21 | CV0971WW-CS18 | T | Solid | Moisture | |
| 680-106200-22 | CV0971WW-CS24 | T | Solid | Moisture | |
| 680-106200-23 | CV0005AC-CS6 | T | Solid | Moisture | |
| 680-106200-24 | CV0005AC-CS12 | T | Solid | Moisture | |
| 680-106200-25 | CV0005AC-CS18 | T | Solid | Moisture | |
| 680-106200-26 | CV0005AC-CS24 | T | Solid | Moisture | |
| 680-106200-27 | CV0748WW-CS6 | T | Solid | Moisture | |
| 680-106200-28 | CV0748WW-CS12 | T | Solid | Moisture | |
| 680-106200-29 | CV0748WW-CS18 | T | Solid | Moisture | |
| 680-106200-30 | CV0748WW-CS24 | T | Solid | Moisture | |

**Report Basis**
T = Total

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Instrument ID: CMSY Analysis Batch Number: 353689

Lab Sample ID: 680-106200-19 Client Sample ID: CV0971WW-CSD6

Date Analyzed: 10/15/14 22:44 Lab File ID: 2YJ1528.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[k]fluoranthene | 10.06 | Split Peak | webbk | 10/16/14 08:41 |

Lab Sample ID: 680-106200-20 Client Sample ID: CV0971WW-CS12

Date Analyzed: 10/15/14 23:06 Lab File ID: 2YJ1529.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[k]fluoranthene | 10.05 | Split Peak | webbk | 10/16/14 08:43 |

Lab Sample ID: 680-106200-21 Client Sample ID: CV0971WW-CS18

Date Analyzed: 10/15/14 23:28 Lab File ID: 2YJ1530.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[k]fluoranthene | 10.06 | Split Peak | webbk | 10/16/14 08:44 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Instrument ID: CMSY Analysis Batch Number: 353862

Lab Sample ID: 680-106200-18 MS Client Sample ID: CV0971WW-CS6 MS

Date Analyzed: 10/16/14 12:28 Lab File ID: 1YJ1609.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[k]fluoranthene | 9.98 | Split Peak | webbk | 10/16/14 13:55 |

Lab Sample ID: 680-106200-18 MSD Client Sample ID: CV0971WW-CS6 MSD

Date Analyzed: 10/16/14 12:50 Lab File ID: 1YJ1610.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[k]fluoranthene | 9.99 | Split Peak | webbk | 10/16/14 13:56 |

Lab Sample ID: 680-106200-18 Client Sample ID: CV0971WW-CS6

Date Analyzed: 10/16/14 13:12 Lab File ID: 1YJ1611.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[k]fluoranthene | 9.98 | Split Peak | webbk | 10/16/14 13:58 |

Lab Sample ID: 680-106200-22 Client Sample ID: CV0971WW-CS24

Date Analyzed: 10/16/14 13:34 Lab File ID: 1YJ1612.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[k]fluoranthene | 9.98 | Split Peak | webbk | 10/17/14 14:22 |

Lab Sample ID: 680-106200-23 Client Sample ID: CV0005AC-CS6

Date Analyzed: 10/16/14 13:56 Lab File ID: 1YJ1613.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[k]fluoranthene | 9.98 | Split Peak | webbk | 10/16/14 14:41 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Instrument ID: CMSY Analysis Batch Number: 353862

Lab Sample ID: 680-106200-24 Client Sample ID: CV0005AC-CS12

Date Analyzed: 10/16/14 14:19 Lab File ID: 1YJ1614.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[k]fluoranthene | 9.98 | Split Peak | webbk | 10/16/14 14:42 |

Lab Sample ID: 680-106200-25 Client Sample ID: CV0005AC-CS18

Date Analyzed: 10/16/14 17:00 Lab File ID: 1YJ1615.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[k]fluoranthene | 9.99 | Split Peak | webbk | 10/17/14 08:48 |

Lab Sample ID: 680-106200-26 Client Sample ID: CV0005AC-CS24

Date Analyzed: 10/16/14 17:22 Lab File ID: 1YJ1616.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[k]fluoranthene | 9.98 | Split Peak | webbk | 10/17/14 08:49 |

Lab Sample ID: 680-106200-27 Client Sample ID: CV0748WW-CS6

Date Analyzed: 10/16/14 17:44 Lab File ID: 1YJ1617.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[k]fluoranthene | 9.98 | Split Peak | webbk | 10/17/14 08:49 |

Lab Sample ID: 680-106200-28 Client Sample ID: CV0748WW-CS12

Date Analyzed: 10/16/14 18:06 Lab File ID: 1YJ1618.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[k]fluoranthene | 9.98 | Split Peak | webbk | 10/17/14 08:50 |

GC/MS SEMI VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Instrument ID: CMSY Analysis Batch Number: 353862

Lab Sample ID: 680-106200-29 Client Sample ID: CV0748WW-CS18

Date Analyzed: 10/16/14 18:28 Lab File ID: 1YJ1619.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[k]fluoranthene | 9.98 | Split Peak | webbk | 10/17/14 08:51 |

Lab Sample ID: 680-106200-30 Client Sample ID: CV0748WW-CS24

Date Analyzed: 10/16/14 18:51 Lab File ID: 1YJ1620.D GC Column: RXi- 5Sil MS ID: 0.25(mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---|---|---|---|---|
| | | REASON | ANALYST | DATE |
| Benzo[k]fluoranthene | 9.98 | Split Peak | webbk | 10/17/14 08:52 |

# Method 8270D Low Level

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## Semivolatile Organic Compounds (GC/MS) Low Level by Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Matrix: Solid Level: Low

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

| Client Sample ID | Lab Sample ID | OTPH | # |
|---|---|---|---|
| CV0971WW-CS6 | 680-106200-18 | 0 | D |
| CV0971WW-CSD6 | 680-106200-19 | 0 | D |
| CV0971WW-CS12 | 680-106200-20 | 0 | D |
| CV0971WW-CS18 | 680-106200-21 | 0 | D |
| CV0971WW-CS24 | 680-106200-22 | 100 | |
| CV0005AC-CS6 | 680-106200-23 | 0 | D |
| CV0005AC-CS12 | 680-106200-24 | 94 | |
| CV0005AC-CS18 | 680-106200-25 | 114 | |
| CV0005AC-CS24 | 680-106200-26 | 87 | |
| CV0748WW-CS6 | 680-106200-27 | 0 | D |
| CV0748WW-CS12 | 680-106200-28 | 107 | |
| CV0748WW-CS18 | 680-106200-29 | 115 | |
| CV0748WW-CS24 | 680-106200-30 | 107 | |
| | MB 680-353328/21-A | 95 | |
| | MB 680-353477/21-A | 117 | |
| | LCS 680-353328/22-A | 88 | |
| | LCS 680-353477/22-A | 84 | |
| CV0971WW-CS6 MS | 680-106200-18 MS | 0 | D |
| | 680-106200-A-1-D MS | 0 | D |
| CV0971WW-CS6 MSD | 680-106200-18 MSD | 0 | D |
| | 680-106200-A-1-E MSD | 0 | D |

| | QC LIMITS |
|---|---|
| OTPH = o-Terphenyl | 36-131 |

# Column to be used to flag recovery values

FORM II 8270D_LL_PAH

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Matrix: Solid Level: Low Lab File ID: 2YJ1508.D

Lab ID: LCS 680-353328/22-A Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Acenaphthene | 333 | 230 | 69 | 33-130 | |
| Acenaphthylene | 333 | 225 | 68 | 37-131 | |
| Anthracene | 333 | 251 | 75 | 42-146 | |
| Benzo[a]anthracene | 333 | 274 | 82 | 39-157 | |
| Benzo[a]pyrene | 333 | 287 | 86 | 41-158 | |
| Benzo[b]fluoranthene | 333 | 301 | 90 | 35-152 | |
| Benzo[g,h,i]perylene | 333 | 291 | 87 | 32-150 | |
| Benzo[k]fluoranthene | 333 | 268 | 81 | 38-148 | |
| Chrysene | 333 | 297 | 89 | 38-147 | |
| Dibenz(a,h)anthracene | 333 | 297 | 89 | 32-155 | |
| Fluoranthene | 333 | 266 | 80 | 36-147 | |
| Fluorene | 333 | 231 | 69 | 36-138 | |
| Indeno[1,2,3-cd]pyrene | 333 | 280 | 84 | 35-148 | |
| 1-Methylnaphthalene | 333 | 209 | 63 | 36-130 | |
| 2-Methylnaphthalene | 333 | 209 | 63 | 42-130 | |
| Naphthalene | 333 | 203 | 61 | 33-130 | |
| Phenanthrene | 333 | 251 | 75 | 40-135 | |
| Pyrene | 333 | 265 | 80 | 38-145 | |

# Column to be used to flag recovery and RPD values

FORM III 8270D_LL_PAH

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Matrix: Solid Level: Low Lab File ID: 1YJ1608.D

Lab ID: LCS 680-353477/22-A Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | LCS CONCENTRATION (ug/Kg) | LCS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|
| Acenaphthene | 333 | 202 | 61 | 33-130 | |
| Acenaphthylene | 333 | 198 | 60 | 37-131 | |
| Anthracene | 333 | 213 | 64 | 42-146 | |
| Benzo[a]anthracene | 333 | 228 | 68 | 39-157 | |
| Benzo[a]pyrene | 333 | 228 | 68 | 41-158 | |
| Benzo[b]fluoranthene | 333 | 235 | 71 | 35-152 | |
| Benzo[g,h,i]perylene | 333 | 228 | 68 | 32-150 | |
| Benzo[k]fluoranthene | 333 | 222 | 67 | 38-148 | |
| Chrysene | 333 | 233 | 70 | 38-147 | |
| Dibenz(a,h)anthracene | 333 | 243 | 73 | 32-155 | |
| Fluoranthene | 333 | 209 | 63 | 36-147 | |
| Fluorene | 333 | 199 | 60 | 36-138 | |
| Indeno[1,2,3-cd]pyrene | 333 | 208 | 63 | 35-148 | |
| 1-Methylnaphthalene | 333 | 197 | 59 | 36-130 | |
| 2-Methylnaphthalene | 333 | 196 | 59 | 42-130 | |
| Naphthalene | 333 | 191 | 57 | 33-130 | |
| Phenanthrene | 333 | 209 | 63 | 40-135 | |
| Pyrene | 333 | 238 | 71 | 38-145 | |

# Column to be used to flag recovery and RPD values

FORM III 8270D_LL_PAH

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Matrix: Solid Level: Low Lab File ID: 1YJ1609.D

Lab ID: 680-106200-18 MS Client ID: CV0971WW-CS6 MS

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| Acenaphthene | 378 | 64 J | 322 | 68 | 33-130 | |
| Acenaphthylene | 378 | 160 | 400 | 64 | 37-131 | |
| Anthracene | 378 | 230 | 427 | 51 | 42-146 | |
| Benzo[a]anthracene | 378 | 1400 | 1270 | -21 | 39-157 | F1 |
| Benzo[a]pyrene | 378 | 1300 | 1330 | -2 | 41-158 | F1 |
| Benzo[b]fluoranthene | 378 | 1900 | 1740 | -32 | 35-152 | 4 |
| Benzo[g,h,i]perylene | 378 | 930 | 928 | -0.6 | 32-150 | F1 |
| Benzo[k]fluoranthene | 378 | 870 | 991 | 33 | 38-148 | F1 |
| Chrysene | 378 | 1600 | 1390 | -54 | 38-147 | 4 |
| Dibenz(a,h)anthracene | 378 | 450 | 405 | -13 | 32-155 | F1 |
| Fluoranthene | 378 | 2400 | 2010 | -114 | 36-147 | 4 |
| Fluorene | 378 | 81 | 316 | 62 | 36-138 | |
| Indeno[1,2,3-cd]pyrene | 378 | 720 | 816 | 26 | 35-148 | F1 |
| 1-Methylnaphthalene | 378 | 99 | 393 | 78 | 36-130 | |
| 2-Methylnaphthalene | 378 | 110 | 404 | 77 | 42-130 | |
| Naphthalene | 378 | 100 | 370 | 70 | 33-130 | |
| Phenanthrene | 378 | 1200 | 1030 | -56 | 40-135 | F1 |
| Pyrene | 378 | 2500 | 1990 | -144 | 38-145 | 4 |

# Column to be used to flag recovery and RPD values

FORM III 8270D_LL_PAH

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Matrix: Solid Level: Low Lab File ID: 2YJ1509.D

Lab ID: 680-106200-A-1-D MS Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | SAMPLE CONCENTRATION (ug/Kg) | MS CONCENTRATION (ug/Kg) | MS % REC | QC LIMITS REC | # |
|---|---|---|---|---|---|---|
| Acenaphthene | 364 | 150 U | 277 | 76 | 33-130 | |
| Acenaphthylene | 364 | 150 U | 250 | 69 | 37-131 | |
| Anthracene | 364 | 160 | 319 | 43 | 42-146 | |
| Benzo[a]anthracene | 364 | 650 | 717 | 18 | 39-157 | F1 |
| Benzo[a]pyrene | 364 | 630 | 736 | 28 | 41-158 | F1 |
| Benzo[b]fluoranthene | 364 | 990 | 956 | -9 | 35-152 | F1 |
| Benzo[g,h,i]perylene | 364 | 430 | 558 | 36 | 32-150 | |
| Benzo[k]fluoranthene | 364 | 430 | 618 | 52 | 38-148 | |
| Chrysene | 364 | 860 | 880 | 6 | 38-147 | F1 |
| Dibenz(a,h)anthracene | 364 | 210 | 358 | 41 | 32-155 | |
| Fluoranthene | 364 | 1200 | 1080 | -25 | 36-147 | F1 |
| Fluorene | 364 | 150 U | 266 | 73 | 36-138 | |
| Indeno[1,2,3-cd]pyrene | 364 | 350 | 524 | 47 | 35-148 | |
| 1-Methylnaphthalene | 364 | 190 | 590 | 108 | 36-130 | |
| 2-Methylnaphthalene | 364 | 210 | 640 | 117 | 42-130 | |
| Naphthalene | 364 | 140 J | 499 | 100 | 33-130 | |
| Phenanthrene | 364 | 810 | 901 | 25 | 40-135 | F1 |
| Pyrene | 364 | 1200 | 1050 | -40 | 38-145 | F1 |

# Column to be used to flag recovery and RPD values

FORM III 8270D_LL_PAH

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Matrix: Solid Level: Low Lab File ID: 1YJ1610.D

Lab ID: 680-106200-18 MSD Client ID: CV0971WW-CS6 MSD

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 378 | 405 | 90 | 23 | 50 | 33-130 | |
| Acenaphthylene | 378 | 464 | 81 | 15 | 50 | 37-131 | |
| Anthracene | 378 | 606 | 99 | 35 | 50 | 42-146 | |
| Benzo[a]anthracene | 378 | 2110 | 200 | 49 | 50 | 39-157 | F1 |
| Benzo[a]pyrene | 378 | 2100 | 201 | 45 | 50 | 41-158 | F1 |
| Benzo[b]fluoranthene | 378 | 2790 | 244 | 46 | 50 | 35-152 | 4 |
| Benzo[g,h,i]perylene | 378 | 1590 | 175 | 53 | 50 | 32-150 | F1 F2 |
| Benzo[k]fluoranthene | 378 | 1500 | 167 | 41 | 50 | 38-148 | F1 |
| Chrysene | 378 | 2500 | 240 | 57 | 50 | 38-147 | 4 F2 |
| Dibenz(a,h)anthracene | 378 | 907 | 120 | 76 | 50 | 32-155 | F2 |
| Fluoranthene | 378 | 3670 | 327 | 59 | 50 | 36-147 | 4 F2 |
| Fluorene | 378 | 417 | 89 | 28 | 50 | 36-138 | |
| Indeno[1,2,3-cd]pyrene | 378 | 1410 | 182 | 53 | 50 | 35-148 | F1 F2 |
| 1-Methylnaphthalene | 378 | 438 | 90 | 11 | 50 | 36-130 | |
| 2-Methylnaphthalene | 378 | 452 | 89 | 11 | 50 | 42-130 | |
| Naphthalene | 378 | 417 | 83 | 12 | 50 | 33-130 | |
| Phenanthrene | 378 | 2430 | 315 | 81 | 50 | 40-135 | F1 F2 |
| Pyrene | 378 | 3750 | 323 | 62 | 50 | 38-145 | 4 F2 |

# Column to be used to flag recovery and RPD values

FORM III 8270D_LL_PAH

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Matrix: Solid Level: Low Lab File ID: 2YJ1510.D

Lab ID: 680-106200-A-1-E MSD Client ID:

| COMPOUND | SPIKE ADDED (ug/Kg) | MSD CONCENTRATION (ug/Kg) | MSD % REC | % RPD | QC LIMITS RPD | QC LIMITS REC | # |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 365 | 302 | 83 | 9 | 50 | 33-130 | |
| Acenaphthylene | 365 | 295 | 81 | 17 | 50 | 37-131 | |
| Anthracene | 365 | 350 | 51 | 9 | 50 | 42-146 | |
| Benzo[a]anthracene | 365 | 767 | 32 | 7 | 50 | 39-157 | F1 |
| Benzo[a]pyrene | 365 | 798 | 45 | 8 | 50 | 41-158 | |
| Benzo[b]fluoranthene | 365 | 1190 | 56 | 22 | 50 | 35-152 | |
| Benzo[g,h,i]perylene | 365 | 595 | 46 | 6 | 50 | 32-150 | |
| Benzo[k]fluoranthene | 365 | 585 | 43 | 6 | 50 | 38-148 | |
| Chrysene | 365 | 1000 | 39 | 13 | 50 | 38-147 | |
| Dibenz(a,h)anthracene | 365 | 411 | 55 | 14 | 50 | 32-155 | |
| Fluoranthene | 365 | 1130 | -11 | 4 | 50 | 36-147 | F1 |
| Fluorene | 365 | 301 | 82 | 12 | 50 | 36-138 | |
| Indeno[1,2,3-cd]pyrene | 365 | 552 | 54 | 5 | 50 | 35-148 | |
| 1-Methylnaphthalene | 365 | 463 | 73 | 24 | 50 | 36-130 | |
| 2-Methylnaphthalene | 365 | 466 | 69 | 32 | 50 | 42-130 | |
| Naphthalene | 365 | 400 | 72 | 22 | 50 | 33-130 | |
| Phenanthrene | 365 | 855 | 13 | 5 | 50 | 40-135 | F1 |
| Pyrene | 365 | 1150 | -13 | 9 | 50 | 38-145 | F1 |

# Column to be used to flag recovery and RPD values

FORM III 8270D_LL_PAH

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Lab File ID: 2YJ1507.D Lab Sample ID: MB 680-353328/21-A

Matrix: Solid Date Extracted: 10/14/2014 10:14

Instrument ID: CMSY Date Analyzed: 10/15/2014 14:59

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 680-353328/22-A | 2YJ1508.D | 10/15/2014 15:21 |
| | 680-106200-A-1-D MS | 2YJ1509.D | 10/15/2014 15:43 |
| | 680-106200-A-1-E MSD | 2YJ1510.D | 10/15/2014 16:05 |
| CV0971WW-CSD6 | 680-106200-19 | 2YJ1528.D | 10/15/2014 22:44 |
| CV0971WW-CS12 | 680-106200-20 | 2YJ1529.D | 10/15/2014 23:06 |
| CV0971WW-CS18 | 680-106200-21 | 2YJ1530.D | 10/15/2014 23:28 |

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Lab File ID: 1YJ1607.D Lab Sample ID: MB 680-353477/21-A

Matrix: Solid Date Extracted: 10/15/2014 10:01

Instrument ID: CMSY Date Analyzed: 10/16/2014 11:43

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| | LCS 680-353477/22-A | 1YJ1608.D | 10/16/2014 12:05 |
| CV0971WW-CS6 MS | 680-106200-18 MS | 1YJ1609.D | 10/16/2014 12:28 |
| CV0971WW-CS6 MSD | 680-106200-18 MSD | 1YJ1610.D | 10/16/2014 12:50 |
| CV0971WW-CS6 | 680-106200-18 | 1YJ1611.D | 10/16/2014 13:12 |
| CV0971WW-CS24 | 680-106200-22 | 1YJ1612.D | 10/16/2014 13:34 |
| CV0005AC-CS6 | 680-106200-23 | 1YJ1613.D | 10/16/2014 13:56 |
| CV0005AC-CS12 | 680-106200-24 | 1YJ1614.D | 10/16/2014 14:19 |
| CV0005AC-CS18 | 680-106200-25 | 1YJ1615.D | 10/16/2014 17:00 |
| CV0005AC-CS24 | 680-106200-26 | 1YJ1616.D | 10/16/2014 17:22 |
| CV0748WW-CS6 | 680-106200-27 | 1YJ1617.D | 10/16/2014 17:44 |
| CV0748WW-CS12 | 680-106200-28 | 1YJ1618.D | 10/16/2014 18:06 |
| CV0748WW-CS18 | 680-106200-29 | 1YJ1619.D | 10/16/2014 18:28 |
| CV0748WW-CS24 | 680-106200-30 | 1YJ1620.D | 10/16/2014 18:51 |

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

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Lab File ID: 3YJ0701.D DFTPP Injection Date: 10/07/2014

Instrument ID: CMSY DFTPP Injection Time: 13:30

Analysis Batch No.: 352391

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 10.0 - 80.0 % of mass 442 | 20.6 | |
| 68 | Less than 2.0 % of mass 69 | 0.5 | (1.8)1 |
| 69 | Mass 69 relative abundance | 27.3 | |
| 70 | Less than 2.0 % of mass 69 | 0.0 | (0.0)1 |
| 127 | 10.0 - 80.0 % of mass 442 | 40.3 | |
| 197 | Less than 2.0 % of mass 198 | 0.6 | (0.7)2 |
| 198 | Greater than 50.0 % of mass 442 | 83.3 | |
| 199 | 5.0 - 9.0 % of mass 198 | 5.8 | (6.9)2 |
| 275 | 10.0 - 60.0 % of mass 442 | 22.4 | |
| 365 | Greater than 1.0 % of mass 442 | 2.5 | |
| 441 | Present but less than mass 443 | 15.2 | |
| 442 | Base Peak, 100% relative abundance | 100.0 | |
| 443 | 15.0 - 24.0 % of mass 442 | 20.5 | |

1-Value is % mass 69 2-Value is % mass 198

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 680-352391/2 | 3YJ0702.D | 10/07/2014 | 13:49 |
| | IC 680-352391/3 | 3YJ0703.D | 10/07/2014 | 14:12 |
| | IC 680-352391/4 | 3YJ0704.D | 10/07/2014 | 14:34 |
| | IC 680-352391/5 | 3YJ0705.D | 10/07/2014 | 14:56 |
| | IC 680-352391/6 | 3YJ0706.D | 10/07/2014 | 15:18 |
| | IC 680-352391/7 | 3YJ0707.D | 10/07/2014 | 15:41 |
| | IC 680-352391/8 | 3YJ0708.D | 10/07/2014 | 16:03 |
| | ICV 680-352391/9 | 3YJ0709.D | 10/07/2014 | 16:25 |

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

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Lab File ID: 2YJ1503.D DFTPP Injection Date: 10/15/2014

Instrument ID: CMSY DFTPP Injection Time: 12:48

Analysis Batch No.: 353689

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 10.0 - 80.0 % of mass 442 | 13.5 | |
| 68 | Less than 2.0 % of mass 69 | 0.1 | (0.6)1 |
| 69 | Mass 69 relative abundance | 18.9 | |
| 70 | Less than 2.0 % of mass 69 | 0.0 | (0.0)1 |
| 127 | 10.0 - 80.0 % of mass 442 | 27.7 | |
| 197 | Less than 2.0 % of mass 198 | 0.3 | (0.4)2 |
| 198 | Greater than 50.0 % of mass 442 | 60.9 | |
| 199 | 5.0 - 9.0 % of mass 198 | 4.2 | (6.9)2 |
| 275 | 10.0 - 60.0 % of mass 442 | 16.4 | |
| 365 | Greater than 1.0 % of mass 442 | 2.1 | |
| 441 | Present but less than mass 443 | 14.6 | |
| 442 | Base Peak, 100% relative abundance | 100.0 | |
| 443 | 15.0 - 24.0 % of mass 442 | 19.7 | |

1-Value is % mass 69 2-Value is % mass 198

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 680-353689/4 | 2YJ1504.D | 10/15/2014 | 13:05 |
| | MB 680-353328/21-A | 2YJ1507.D | 10/15/2014 | 14:59 |
| | LCS 680-353328/22-A | 2YJ1508.D | 10/15/2014 | 15:21 |
| | 680-106200-A-1-D MS | 2YJ1509.D | 10/15/2014 | 15:43 |
| | 680-106200-A-1-E MSD | 2YJ1510.D | 10/15/2014 | 16:05 |
| CV0971WW-CSD6 | 680-106200-19 | 2YJ1528.D | 10/15/2014 | 22:44 |
| CV0971WW-CS12 | 680-106200-20 | 2YJ1529.D | 10/15/2014 | 23:06 |
| CV0971WW-CS18 | 680-106200-21 | 2YJ1530.D | 10/15/2014 | 23:28 |

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

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Lab File ID: 1YJ1601.D DFTPP Injection Date: 10/16/2014

Instrument ID: CMSY DFTPP Injection Time: 09:11

Analysis Batch No.: 353862

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE | |
|---|---|---|---|
| 51 | 10.0 - 80.0 % of mass 442 | 12.1 | |
| 68 | Less than 2.0 % of mass 69 | 0.3 | (1.6)1 |
| 69 | Mass 69 relative abundance | 16.6 | |
| 70 | Less than 2.0 % of mass 69 | 0.0 | (0.0)1 |
| 127 | 10.0 - 80.0 % of mass 442 | 24.6 | |
| 197 | Less than 2.0 % of mass 198 | 0.0 | (0.0)2 |
| 198 | Greater than 50.0 % of mass 442 | 54.8 | |
| 199 | 5.0 - 9.0 % of mass 198 | 3.8 | (6.9)2 |
| 275 | 10.0 - 60.0 % of mass 442 | 16.0 | |
| 365 | Greater than 1.0 % of mass 442 | 2.1 | |
| 441 | Present but less than mass 443 | 14.6 | |
| 442 | Base Peak, 100% relative abundance | 100.0 | |
| 443 | 15.0 - 24.0 % of mass 442 | 19.7 | |

1-Value is % mass 69 2-Value is % mass 198

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 680-353862/2 | 1YJ1602.D | 10/16/2014 | 09:29 |
| | MB 680-353477/21-A | 1YJ1607.D | 10/16/2014 | 11:43 |
| | LCS 680-353477/22-A | 1YJ1608.D | 10/16/2014 | 12:05 |
| CV0971WW-CS6 MS | 680-106200-18 MS | 1YJ1609.D | 10/16/2014 | 12:28 |
| CV0971WW-CS6 MSD | 680-106200-18 MSD | 1YJ1610.D | 10/16/2014 | 12:50 |
| CV0971WW-CS6 | 680-106200-18 | 1YJ1611.D | 10/16/2014 | 13:12 |
| CV0971WW-CS24 | 680-106200-22 | 1YJ1612.D | 10/16/2014 | 13:34 |
| CV0005AC-CS6 | 680-106200-23 | 1YJ1613.D | 10/16/2014 | 13:56 |
| CV0005AC-CS12 | 680-106200-24 | 1YJ1614.D | 10/16/2014 | 14:19 |
| CV0005AC-CS18 | 680-106200-25 | 1YJ1615.D | 10/16/2014 | 17:00 |
| CV0005AC-CS24 | 680-106200-26 | 1YJ1616.D | 10/16/2014 | 17:22 |
| CV0748WW-CS6 | 680-106200-27 | 1YJ1617.D | 10/16/2014 | 17:44 |
| CV0748WW-CS12 | 680-106200-28 | 1YJ1618.D | 10/16/2014 | 18:06 |
| CV0748WW-CS18 | 680-106200-29 | 1YJ1619.D | 10/16/2014 | 18:28 |
| CV0748WW-CS24 | 680-106200-30 | 1YJ1620.D | 10/16/2014 | 18:51 |

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

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Sample No.: ICIS 680-352391/2 Date Analyzed: 10/07/2014 13:49

Instrument ID: CMSY GC Column: RXi- 5Sil MS ID: 0.25(mm)

Lab File ID (Standard): 3YJ0702.D Heated Purge: (Y/N) N

Calibration ID: 34899

| | | NPT | | ANT | | PHN | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 168653 | 3.23 | 96300 | 4.97 | 158524 | 6.57 |
| UPPER LIMIT | | 337306 | 3.73 | 192600 | 5.47 | 317048 | 7.07 |
| LOWER LIMIT | | 84327 | 2.73 | 48150 | 4.47 | 79262 | 6.07 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 680-352391/9 | | 165607 | 3.23 | 94839 | 4.97 | 159103 | 6.57 |

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

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

# Column used to flag values outside QC limits

FORM VIII 8270D_LL_PAH

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

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Sample No.: ICIS 680-352391/2 Date Analyzed: 10/07/2014 13:49

Instrument ID: CMSY GC Column: RXi- 5Sil MS ID: 0.25(mm)

Lab File ID (Standard): 3YJ0702.D Heated Purge: (Y/N) N

Calibration ID: 34899

| | | CRY | | PRY | | | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | | 162442 | 9.46 | 146029 | 10.82 | | |
| UPPER LIMIT | | 324884 | 9.96 | 292058 | 11.32 | | |
| LOWER LIMIT | | 81221 | 8.96 | 73015 | 10.32 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| ICV 680-352391/9 | | 174557 | 9.46 | 161423 | 10.82 | | |

CRY = Chrysene-d12
PRY = Perylene-d12

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

# Column used to flag values outside QC limits

FORM VIII 8270D_LL_PAH

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

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Sample No.: CCVIS 680-353689/4 Date Analyzed: 10/15/2014 13:05

Instrument ID: CMSY GC Column: RXi- 5Sil MS ID: 0.25(mm)

Lab File ID (Standard): 2YJ1504.D Heated Purge: (Y/N) N

Calibration ID: 34899

| | | NPT | | ANT | | PHN | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 129074 | 2.86 | 74842 | 4.55 | 127647 | 6.12 |
| UPPER LIMIT | | 258148 | 3.36 | 149684 | 5.05 | 255294 | 6.62 |
| LOWER LIMIT | | 64537 | 2.36 | 37421 | 4.05 | 63824 | 5.62 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 680-353328/21-A | | 130006 | 2.85 | 70711 | 4.55 | 113085 | 6.12 |
| LCS 680-353328/22-A | | 130793 | 2.86 | 70983 | 4.55 | 114917 | 6.13 |
| 680-106200-A-1-D MS | | 142460 | 2.86 | 78977 | 4.55 | 126352 | 6.12 |
| 680-106200-A-1-E MSD | | 145922 | 2.86 | 80639 | 4.55 | 130451 | 6.12 |
| 680-106200-19 | CV0971WW-CSD6 | 150666 | 2.86 | 84336 | 4.56 | 143561 | 6.13 |
| 680-106200-20 | CV0971WW-CS12 | 135509 | 2.86 | 78874 | 4.56 | 124592 | 6.13 |
| 680-106200-21 | CV0971WW-CS18 | 152712 | 2.86 | 90026 | 4.56 | 151602 | 6.13 |

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

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

# Column used to flag values outside QC limits

FORM VIII 8270D_LL_PAH

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

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Sample No.: CCVIS 680-353689/4 Date Analyzed: 10/15/2014 13:05

Instrument ID: CMSY GC Column: RXi- 5Sil MS ID: 0.25(mm)

Lab File ID (Standard): 2YJ1504.D Heated Purge: (Y/N) N

Calibration ID: 34899

| | | CRY | | PRY | | | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 139055 | 9.00 | 133380 | 10.34 | | |
| UPPER LIMIT | | 278110 | 9.50 | 266760 | 10.84 | | |
| LOWER LIMIT | | 69528 | 8.50 | 66690 | 9.84 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 680-353328/21-A | | 106109 | 9.00 | 94859 | 10.36 | | |
| LCS 680-353328/22-A | | 118657 | 9.00 | 106080 | 10.35 | | |
| 680-106200-A-1-D MS | | 114143 | 9.00 | 104149 | 10.35 | | |
| 680-106200-A-1-E MSD | | 116389 | 9.00 | 99590 | 10.35 | | |
| 680-106200-19 | CV0971WW-CSD6 | 111340 | 9.01 | 84756 | 10.36 | | |
| 680-106200-20 | CV0971WW-CS12 | 89403 | 9.00 | 67008 | 10.36 | | |
| 680-106200-21 | CV0971WW-CS18 | 115201 | 9.01 | 84199 | 10.36 | | |

CRY = Chrysene-d12
PRY = Perylene-d12

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

# Column used to flag values outside QC limits

FORM VIII 8270D_LL_PAH

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

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Sample No.: CCVIS 680-353862/2 Date Analyzed: 10/16/2014 09:29

Instrument ID: CMSY GC Column: RXi- 5Sil MS ID: 0.25(mm)

Lab File ID (Standard): 1YJ1602.D Heated Purge: (Y/N) N

Calibration ID: 34899

| | | NPT | | ANT | | PHN | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 126099 | 2.80 | 70268 | 4.49 | 117518 | 6.05 |
| UPPER LIMIT | | 252198 | 3.30 | 140536 | 4.99 | 235036 | 6.55 |
| LOWER LIMIT | | 63050 | 2.30 | 35134 | 3.99 | 58759 | 5.55 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 680-353477/21-A | | 134339 | 2.80 | 78930 | 4.49 | 128522 | 6.06 |
| LCS 680-353477/22-A | | 143819 | 2.80 | 79381 | 4.49 | 123420 | 6.06 |
| 680-106200-18 MS | CV0971WW-CS6 MS | 127376 | 2.80 | 69451 | 4.49 | 110841 | 6.06 |
| 680-106200-18 MSD | CV0971WW-CS6 MSD | 132450 | 2.80 | 73883 | 4.49 | 118512 | 6.06 |
| 680-106200-18 | CV0971WW-CS6 | 138955 | 2.80 | 78764 | 4.49 | 125362 | 6.06 |
| 680-106200-22 | CV0971WW-CS24 | 141619 | 2.80 | 81026 | 4.49 | 135991 | 6.06 |
| 680-106200-23 | CV0005AC-CS6 | 133055 | 2.80 | 74101 | 4.49 | 121492 | 6.06 |
| 680-106200-24 | CV0005AC-CS12 | 147634 | 2.80 | 84965 | 4.49 | 144249 | 6.06 |
| 680-106200-25 | CV0005AC-CS18 | 144217 | 2.80 | 83443 | 4.49 | 137550 | 6.07 |
| 680-106200-26 | CV0005AC-CS24 | 155973 | 2.80 | 88622 | 4.49 | 145545 | 6.07 |
| 680-106200-27 | CV0748WW-CS6 | 130325 | 2.80 | 70830 | 4.49 | 122363 | 6.06 |
| 680-106200-28 | CV0748WW-CS12 | 152706 | 2.80 | 88954 | 4.49 | 138568 | 6.07 |
| 680-106200-29 | CV0748WW-CS18 | 147826 | 2.80 | 86082 | 4.49 | 136753 | 6.07 |
| 680-106200-30 | CV0748WW-CS24 | 147816 | 2.80 | 83445 | 4.49 | 135223 | 6.07 |

NPT = Naphthalene-d8
ANT = Acenaphthene-d10
PHN = Phenanthrene-d10

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

# Column used to flag values outside QC limits

FORM VIII 8270D_LL_PAH

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

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Sample No.: CCVIS 680-353862/2 Date Analyzed: 10/16/2014 09:29

Instrument ID: CMSY GC Column: RXi- 5Sil MS ID: 0.25(mm)

Lab File ID (Standard): 1YJ1602.D Heated Purge: (Y/N) N

Calibration ID: 34899

| | | CRY | | PRY | | | |
|---|---|---|---|---|---|---|---|
| | | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| 12/24 HOUR STD | | 113158 | 8.93 | 96125 | 10.27 | | |
| UPPER LIMIT | | 226316 | 9.43 | 192250 | 10.77 | | |
| LOWER LIMIT | | 56579 | 8.43 | 48063 | 9.77 | | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| MB 680-353477/21-A | | 107830 | 8.93 | 93551 | 10.28 | | |
| LCS 680-353477/22-A | | 108408 | 8.93 | 91512 | 10.27 | | |
| 680-106200-18 MS | CV0971WW-CS6 MS | 102024 | 8.93 | 87155 | 10.28 | | |
| 680-106200-18 MSD | CV0971WW-CS6 MSD | 97281 | 8.93 | 87169 | 10.29 | | |
| 680-106200-18 | CV0971WW-CS6 | 100855 | 8.93 | 80050 | 10.29 | | |
| 680-106200-22 | CV0971WW-CS24 | 117144 | 8.93 | 92889 | 10.28 | | |
| 680-106200-23 | CV0005AC-CS6 | 96035 | 8.93 | 81558 | 10.28 | | |
| 680-106200-24 | CV0005AC-CS12 | 125759 | 8.93 | 102182 | 10.29 | | |
| 680-106200-25 | CV0005AC-CS18 | 118462 | 8.94 | 99323 | 10.29 | | |
| 680-106200-26 | CV0005AC-CS24 | 116513 | 8.93 | 101638 | 10.29 | | |
| 680-106200-27 | CV0748WW-CS6 | 101977 | 8.93 | 84485 | 10.29 | | |
| 680-106200-28 | CV0748WW-CS12 | 109276 | 8.94 | 93138 | 10.29 | | |
| 680-106200-29 | CV0748WW-CS18 | 107139 | 8.93 | 90138 | 10.29 | | |
| 680-106200-30 | CV0748WW-CS24 | 108785 | 8.93 | 98353 | 10.29 | | |

CRY = Chrysene-d12
PRY = Perylene-d12

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

# Column used to flag values outside QC limits

FORM VIII 8270D_LL_PAH

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0971WW-CS6 | Lab Sample ID: 680-106200-18

Matrix: Solid | Lab File ID: 1YJ1611.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 13:40

Extract. Method: 3546 | Date Extracted: 10/15/2014 10:01

Sample wt/vol: 30.04(g) | Date Analyzed: 10/16/2014 13:12

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 12.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353862 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 64 | J | 76 | 37 |
| 208-96-8 | Acenaphthylene | 160 | | 76 | 37 |
| 120-12-7 | Anthracene | 230 | | 76 | 37 |
| 56-55-3 | Benzo[a]anthracene | 1400 | | 76 | 37 |
| 50-32-8 | Benzo[a]pyrene | 1300 | | 76 | 14 |
| 205-99-2 | Benzo[b]fluoranthene | 1900 | | 76 | 37 |
| 191-24-2 | Benzo[g,h,i]perylene | 930 | | 76 | 37 |
| 207-08-9 | Benzo[k]fluoranthene | 870 | | 76 | 23 |
| 218-01-9 | Chrysene | 1600 | | 76 | 37 |
| 53-70-3 | Dibenz(a,h)anthracene | 450 | | 76 | 37 |
| 206-44-0 | Fluoranthene | 2400 | | 76 | 37 |
| 86-73-7 | Fluorene | 81 | | 76 | 37 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 720 | | 76 | 37 |
| 90-12-0 | 1-Methylnaphthalene | 99 | | 76 | 35 |
| 91-57-6 | 2-Methylnaphthalene | 110 | | 76 | 37 |
| 91-20-3 | Naphthalene | 100 | | 76 | 37 |
| 85-01-8 | Phenanthrene | 1200 | | 76 | 27 |
| 129-00-0 | Pyrene | 2500 | | 76 | 37 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 0 | D | 36-131 |

TestAmerica Savannah
Target Compound Quantitation Report

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1611.D | | | | |
| Lims ID: | 680-106200-A-18-A | Lab Sample ID: | 680-106200-18 | | |
| Client ID: | CV0971WW-CS6 | | | | |
| Sample Type: | Client | | | | |
| Inject. Date: | 16-Oct-2014 13:12:30 | ALS Bottle#: | 10 | Worklist Smp#: | 11 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Sample Info: | 106200-A-18-A 1:10 | | | | |
| Misc. Info.: | 680-0013814-011 | | | | |
| Operator ID: | RM | Instrument ID: | CMSY | | |

| | | | |
|---|---|---|---|
| Method: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\8270D_LLPAH_MSY.m | | |
| Limit Group: | 8270D_LL_PAH | | |
| Last Update: | 17-Oct-2014 14:22:05 | Calib Date: | 07-Oct-2014 15:41:30 |
| Integrator: | RTE | ID Type: | RT Order ID |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D | | |

| | | |
|---|---|---|
| Column 1 : | Restek RXi-5Sil MS ( 0.25 mm) | Det: MS SCAN |
| Process Host: | XAWRK031 | |

First Level Reviewer: webbk Date: 16-Oct-2014 13:58:20

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.802 | 2.803 | -0.001 | 98 | 138955 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.493 | 4.487 | 0.006 | 90 | 78764 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.060 | 6.054 | 0.006 | 98 | 125362 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 8.932 | 8.927 | 0.005 | 88 | 100855 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.285 | 10.269 | 0.016 | 99 | 80050 | 2.00 | |
| 7 Naphthalene | 128 | 2.824 | 2.819 | 0.005 | 85 | 20997 | 0.2770 | |
| 8 2-Methylnaphthalene | 142 | 3.460 | 3.455 | 0.005 | 82 | 15177 | 0.3020 | |
| 9 1-Methylnaphthalene | 142 | 3.551 | 3.546 | 0.005 | 78 | 12232 | 0.2625 | |
| 10 1,1'-Biphenyl | 154 | 4.343 | 4.332 | 0.011 | 0 | 326 | NC | |
| 11 Acenaphthylene | 152 | 4.337 | 4.338 | -0.001 | 96 | 31984 | 0.4191 | |
| 12 Acenaphthene | 153 | 4.525 | 4.519 | 0.006 | 78 | 8354 | 0.1704 | |
| 14 Fluorene | 166 | 5.070 | 5.065 | 0.005 | 86 | 11644 | 0.2151 | |
| 15 Phenanthrene | 178 | 6.086 | 6.081 | 0.005 | 96 | 246598 | 3.29 | |
| 16 Anthracene | 178 | 6.140 | 6.135 | 0.005 | 95 | 45850 | 0.6145 | |
| 17 Fluoranthene | 202 | 7.386 | 7.376 | 0.010 | 98 | 512898 | 6.45 | |
| 18 Pyrene | 202 | 7.616 | 7.606 | 0.010 | 97 | 438886 | 6.69 | |
| 19 Benzo[a]anthracene | 228 | 8.927 | 8.916 | 0.011 | 98 | 211376 | 3.58 | |
| 20 Chrysene | 228 | 8.959 | 8.953 | 0.006 | 94 | 231968 | 4.22 | |
| 21 Benzo[b]fluoranthene | 252 | 9.964 | 9.948 | 0.016 | 98 | 259921 | 4.94 | |
| 22 Benzo[k]fluoranthene | 252 | 9.980 | 9.975 | 0.005 | 99 | 116215 | 2.29 | M |
| 23 Benzo[a]pyrene | 252 | 10.237 | 10.221 | 0.016 | 97 | 153855 | 3.55 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.130 | 11.109 | 0.021 | 98 | 104961 | 1.90 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.146 | 11.136 | 0.010 | 89 | 45439 | 1.20 | |
| 26 Benzo[g,h,i]perylene | 276 | 11.344 | 11.323 | 0.021 | 90 | 97374 | 2.46 | |

## QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

## Reagents:

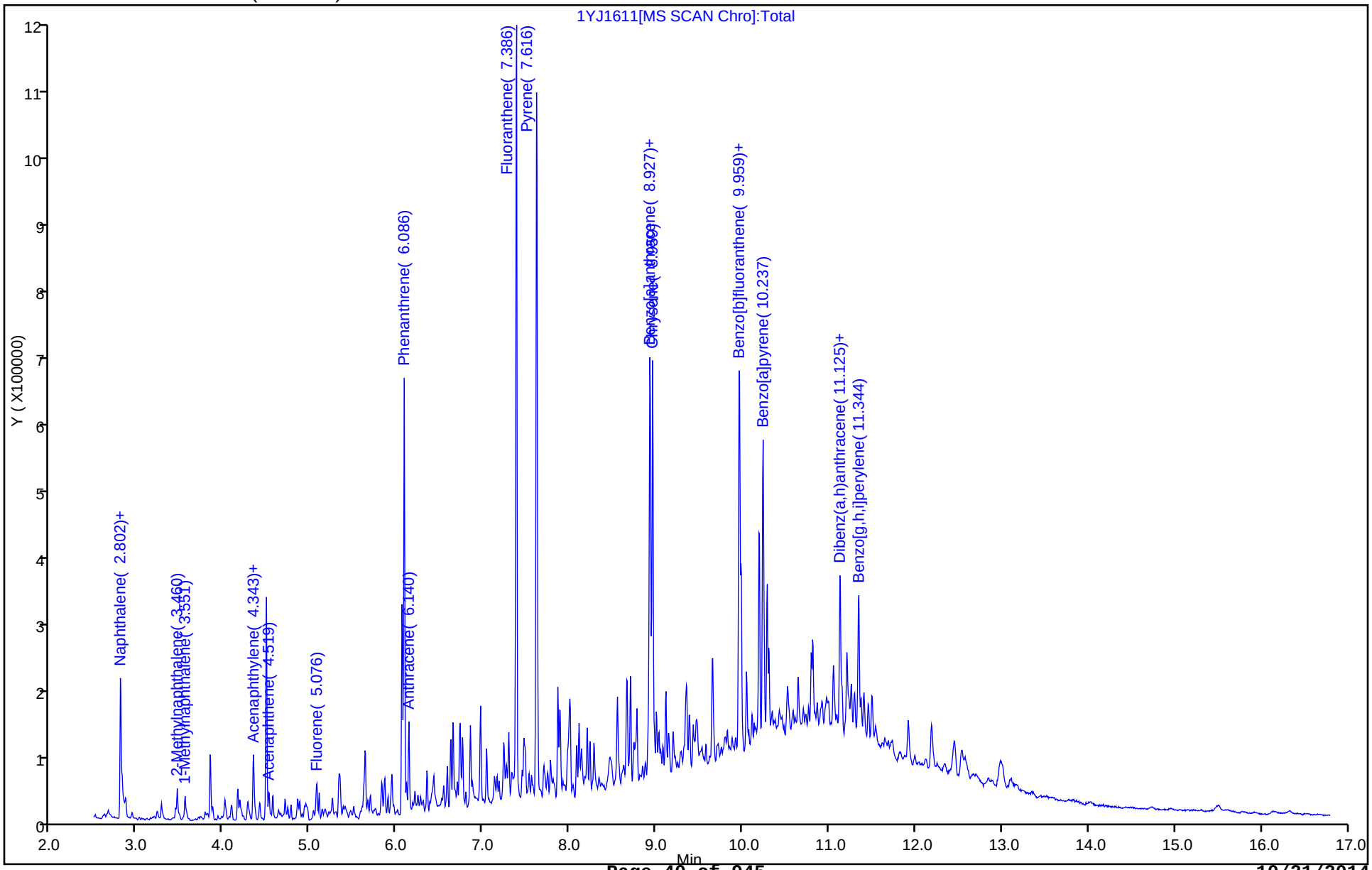
SM-LLISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 17-Oct-2014 14:29:30 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1611.D | | | | |
| Injection Date: | 16-Oct-2014 13:12:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | 680-106200-A-18-A | Lab Sample ID: | 680-106200-18 | Worklist Smp#: | 11 |
| Client ID: | CV0971WW-CS6 | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | ALS Bottle#: | 10 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)

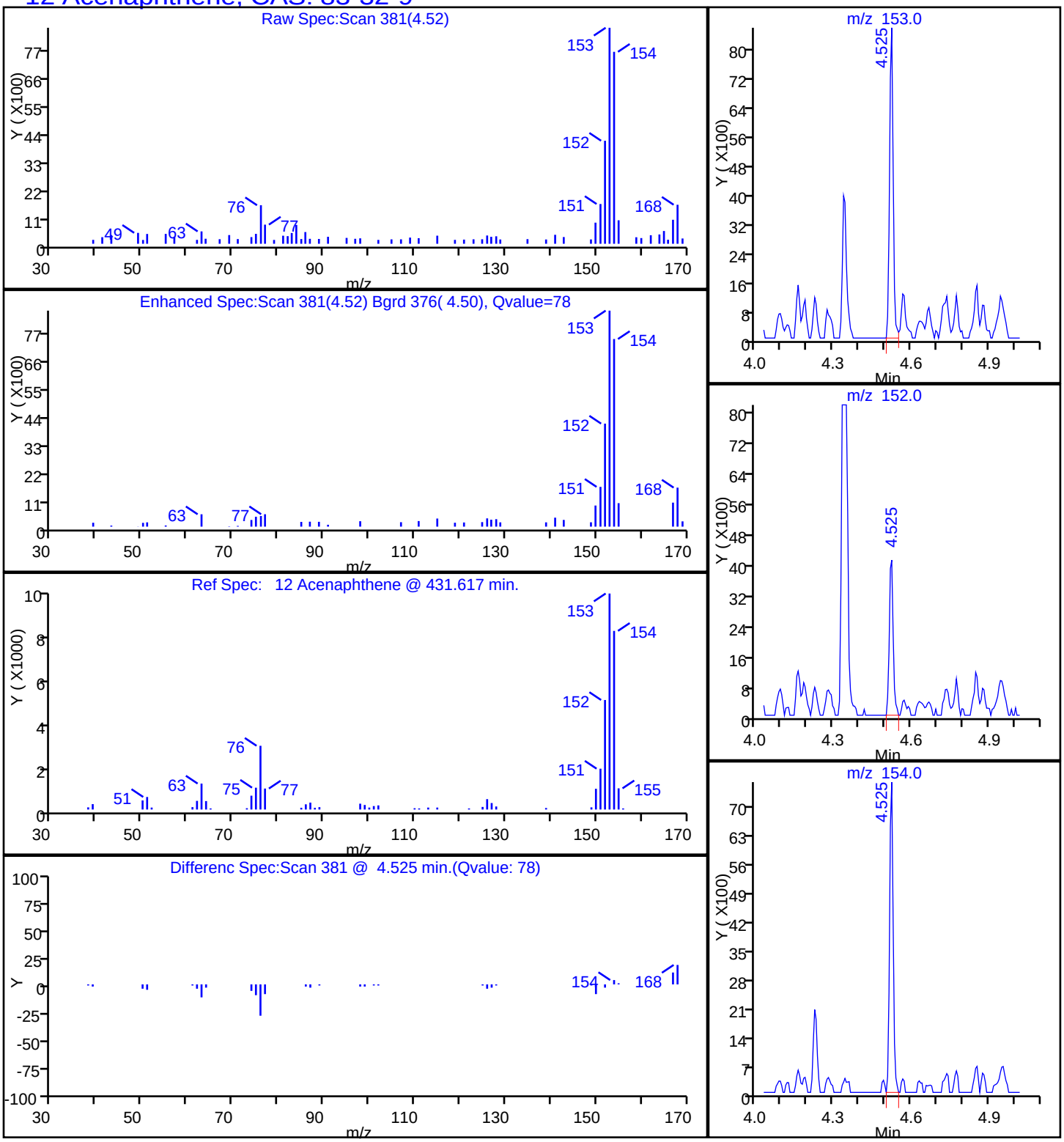


Report Date: 17-Oct-2014 14:29:30 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1611.D | | | | |
| Injection Date: | 16-Oct-2014 13:12:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-18-A | Lab Sample ID: | 680-106200-18 | | |
| Client ID: | CV0971WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 10 | Worklist Smp#: | 11 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 12 Acenaphthene, CAS: 83-32-9

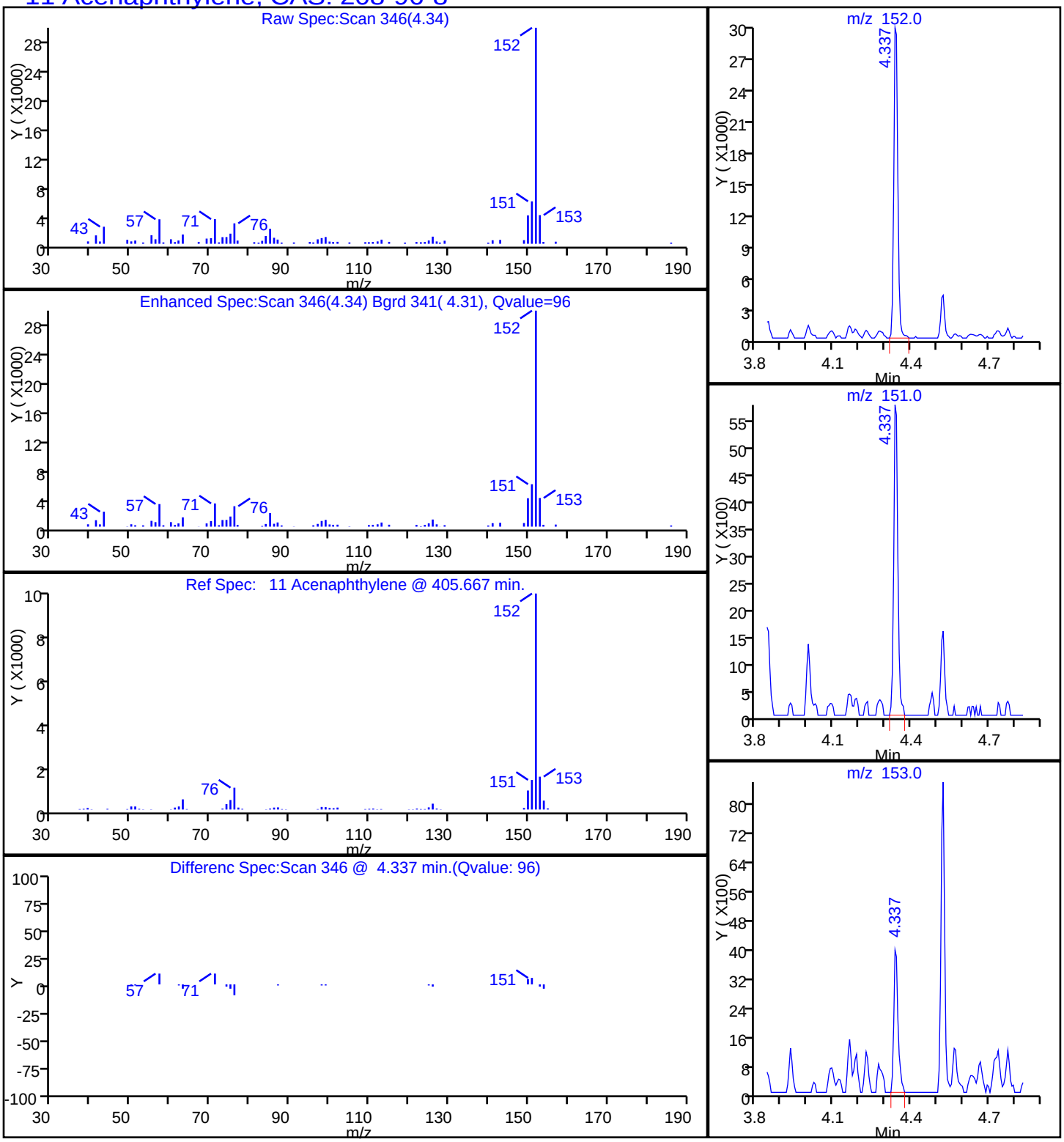


Report Date: 17-Oct-2014 14:29:30 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1611.D | | | | |
| Injection Date: | 16-Oct-2014 13:12:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-18-A | Lab Sample ID: | 680-106200-18 | | |
| Client ID: | CV0971WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 10 | Worklist Smp#: | 11 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 11 Acenaphthylene, CAS: 208-96-8

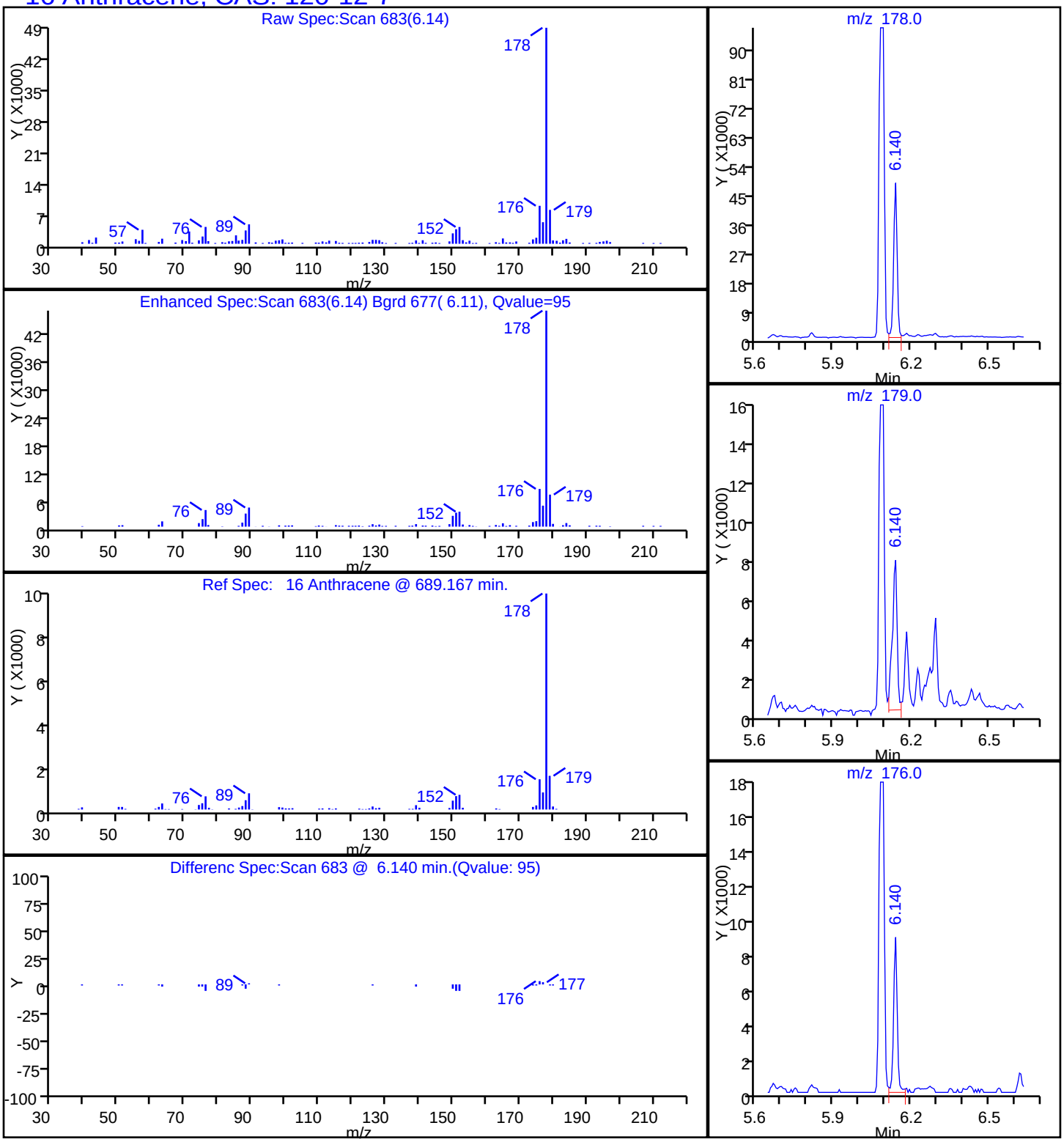


Report Date: 17-Oct-2014 14:29:30 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1611.D | | | | |
| Injection Date: | 16-Oct-2014 13:12:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-18-A | Lab Sample ID: | 680-106200-18 | | |
| Client ID: | CV0971WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 10 | Worklist Smp#: | 11 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 16 Anthracene, CAS: 120-12-7

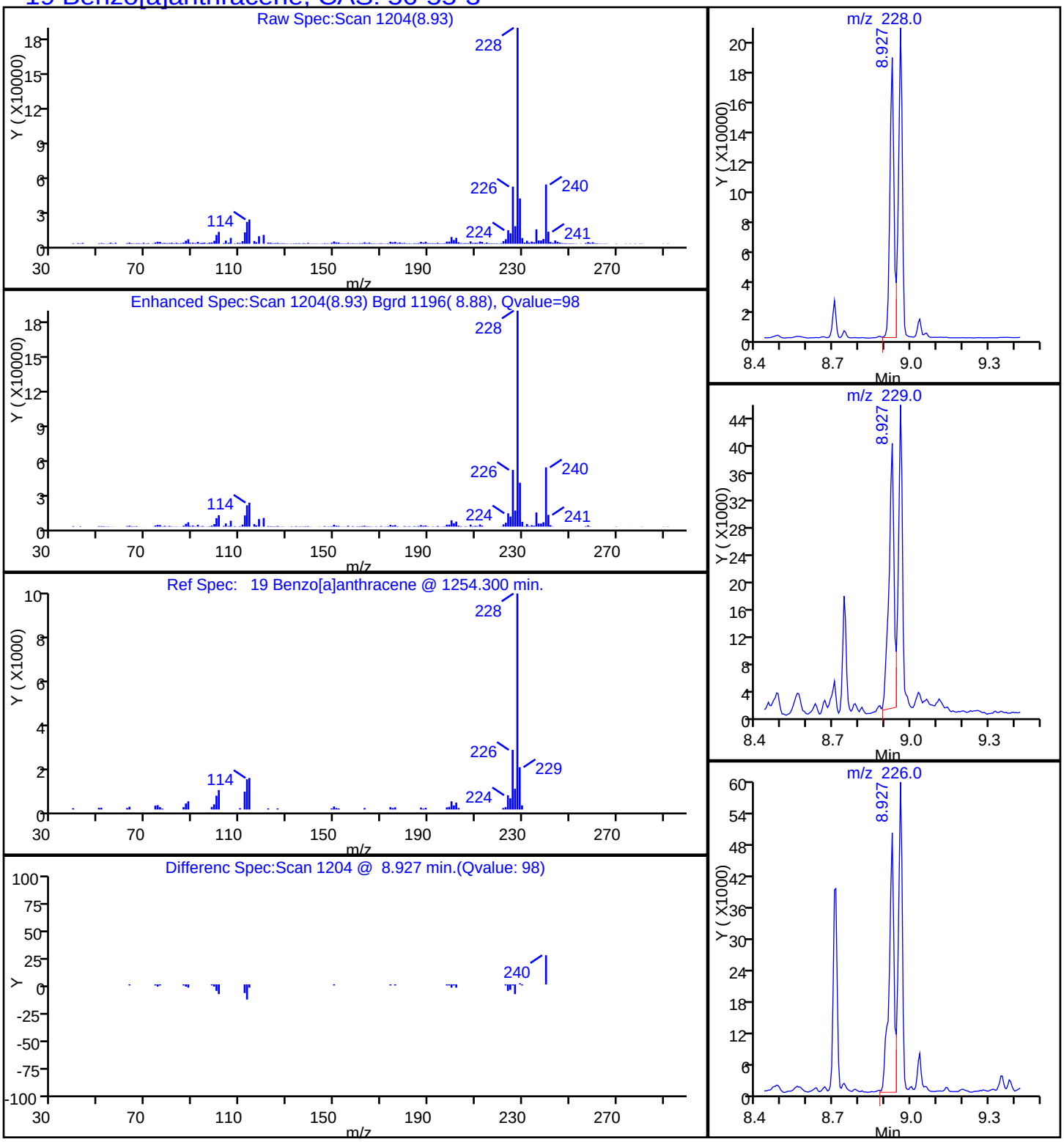


Report Date: 17-Oct-2014 14:29:30 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1611.D | | | | |
| Injection Date: | 16-Oct-2014 13:12:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-18-A | Lab Sample ID: | 680-106200-18 | | |
| Client ID: | CV0971WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 10 | Worklist Smp#: | 11 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

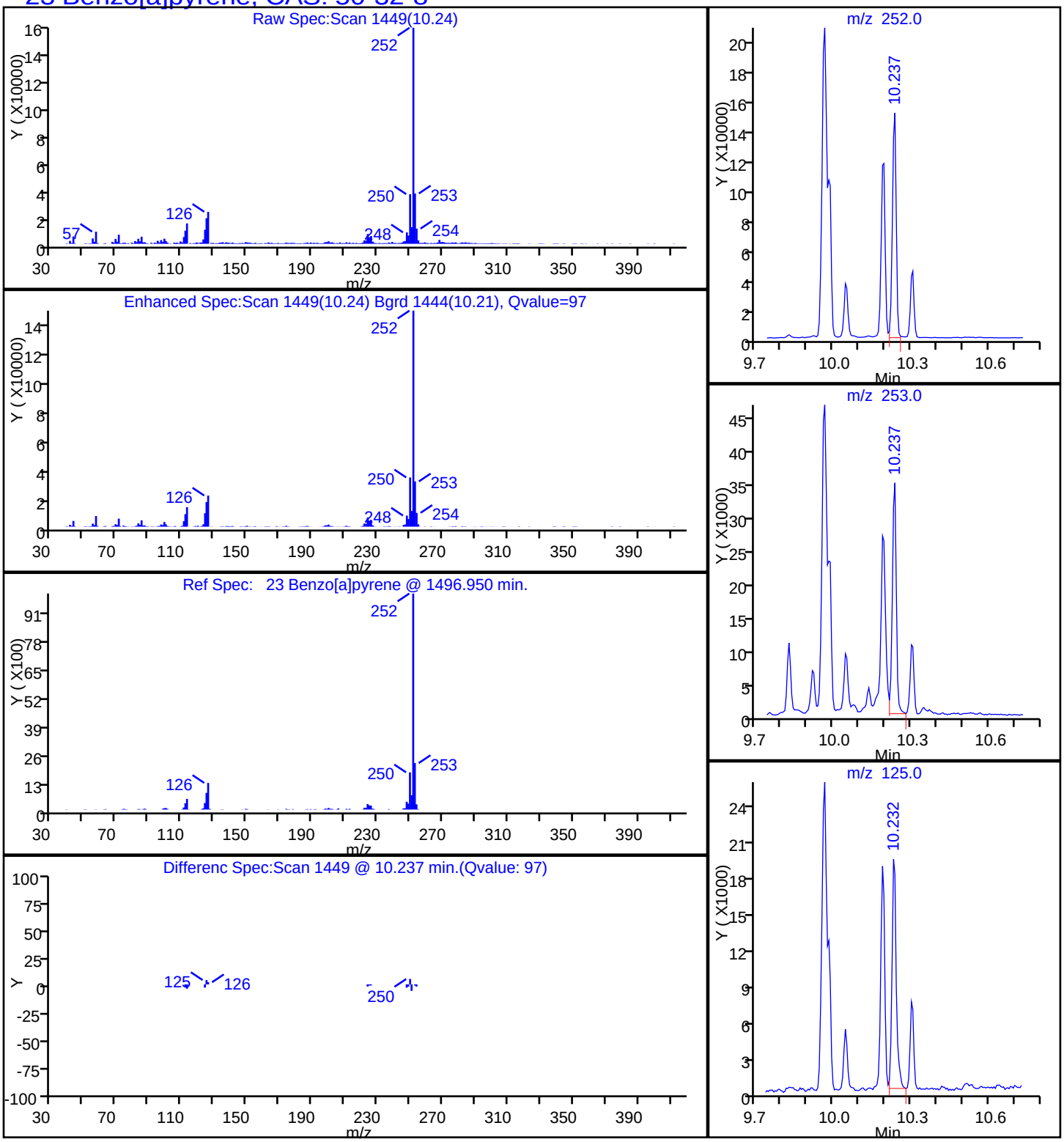


Report Date: 17-Oct-2014 14:29:32 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1611.D | | | | |
| Injection Date: | 16-Oct-2014 13:12:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-18-A | Lab Sample ID: | 680-106200-18 | | |
| Client ID: | CV0971WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 10 | Worklist Smp#: | 11 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

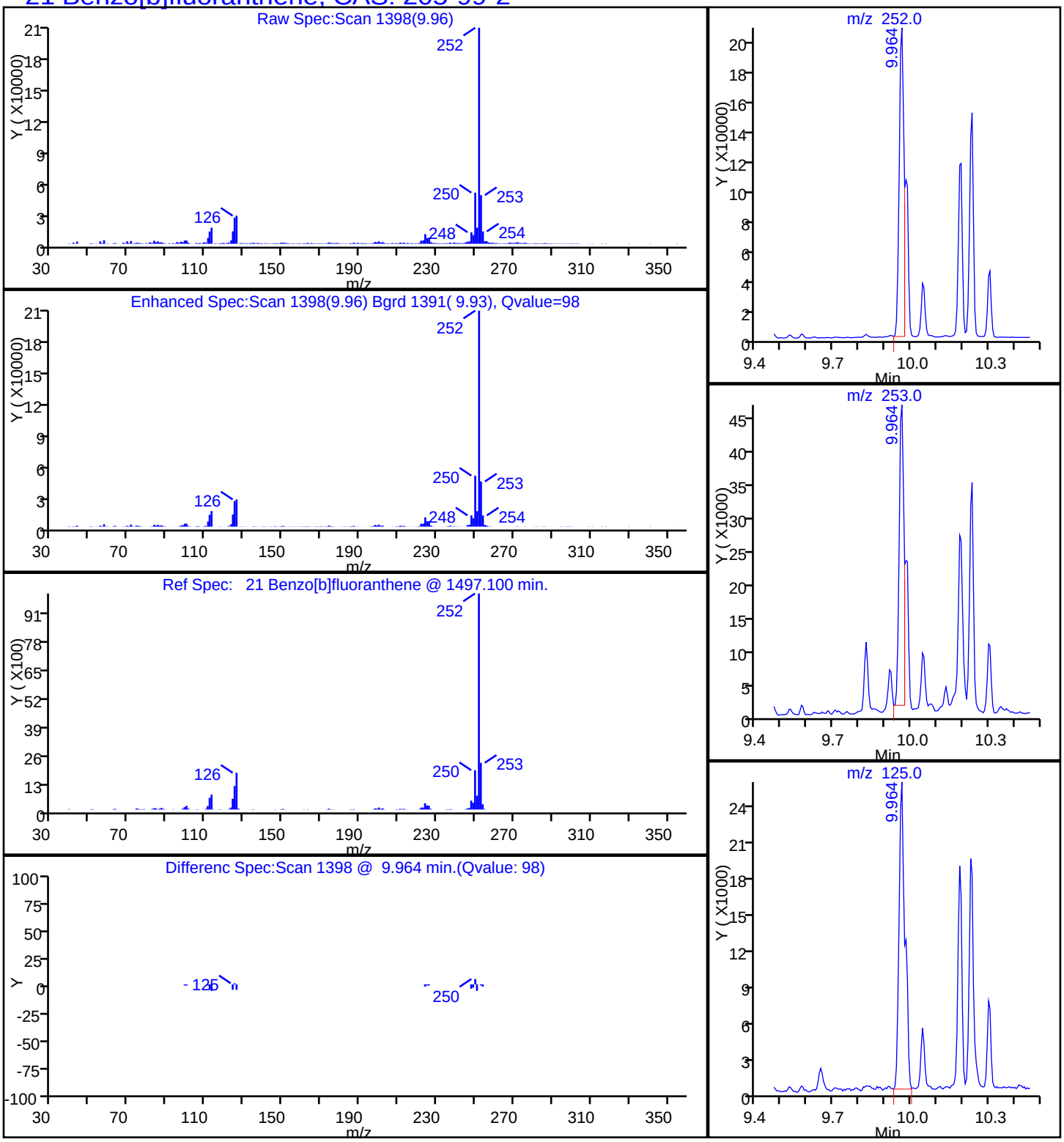


Report Date: 17-Oct-2014 14:29:31 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1611.D | | | | |
| Injection Date: | 16-Oct-2014 13:12:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-18-A | Lab Sample ID: | 680-106200-18 | | |
| Client ID: | CV0971WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 10 | Worklist Smp#: | 11 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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



Report Date: 17-Oct-2014 14:29:32 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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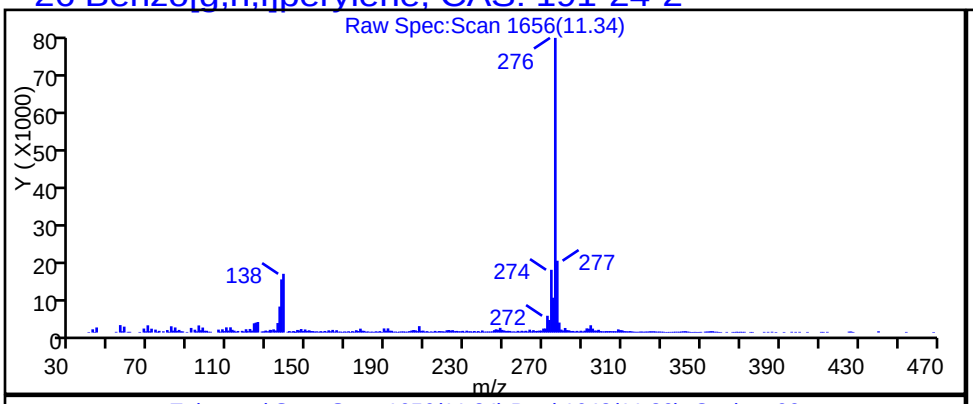
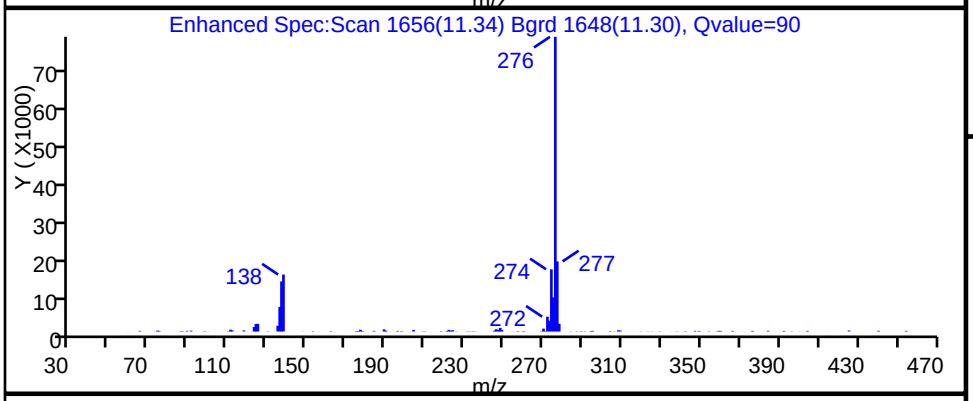
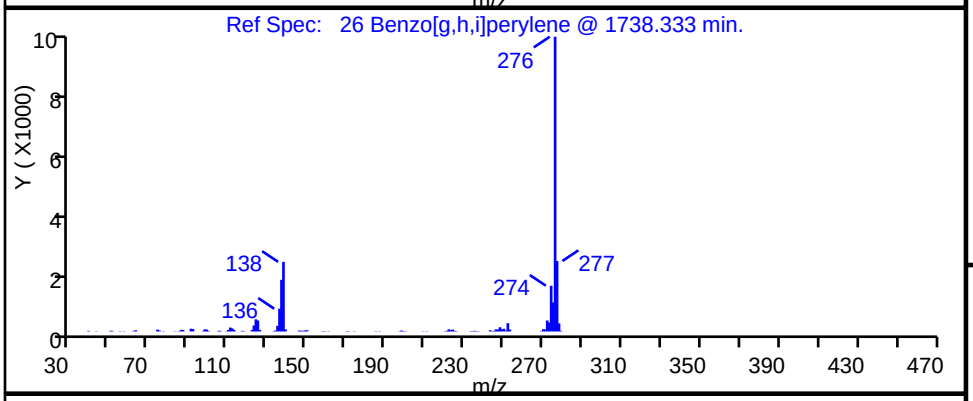
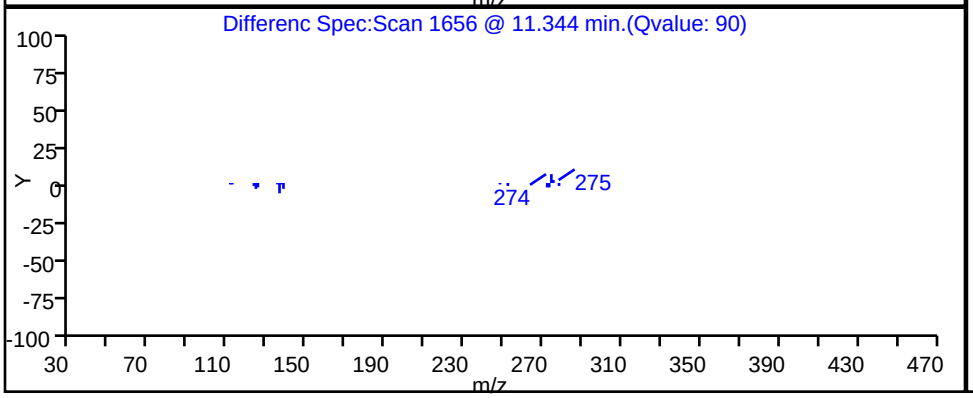
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1611.D | | | | |
| Injection Date: | 16-Oct-2014 13:12:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-18-A | Lab Sample ID: | 680-106200-18 | | |
| Client ID: | CV0971WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 10 | Worklist Smp#: | 11 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

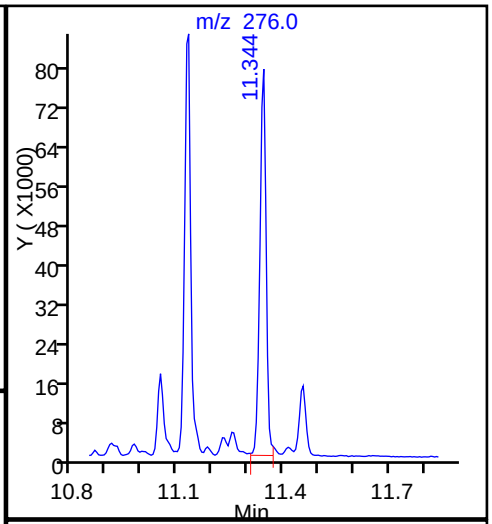
## 26 Benzo[g,h,i]perylene, CAS: 191-24-2

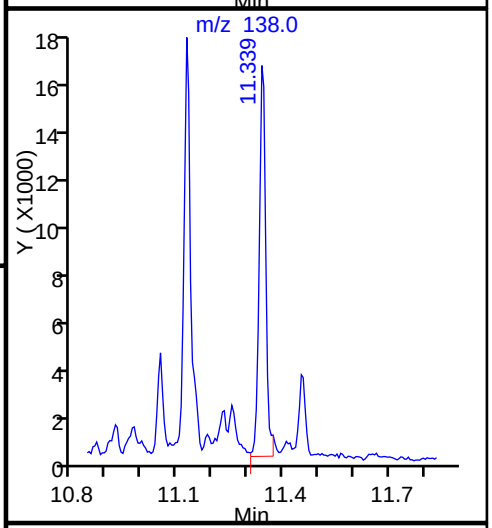


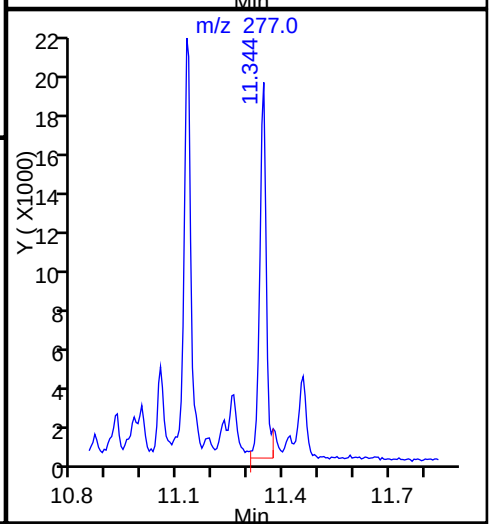



Report Date: 17-Oct-2014 14:29:31 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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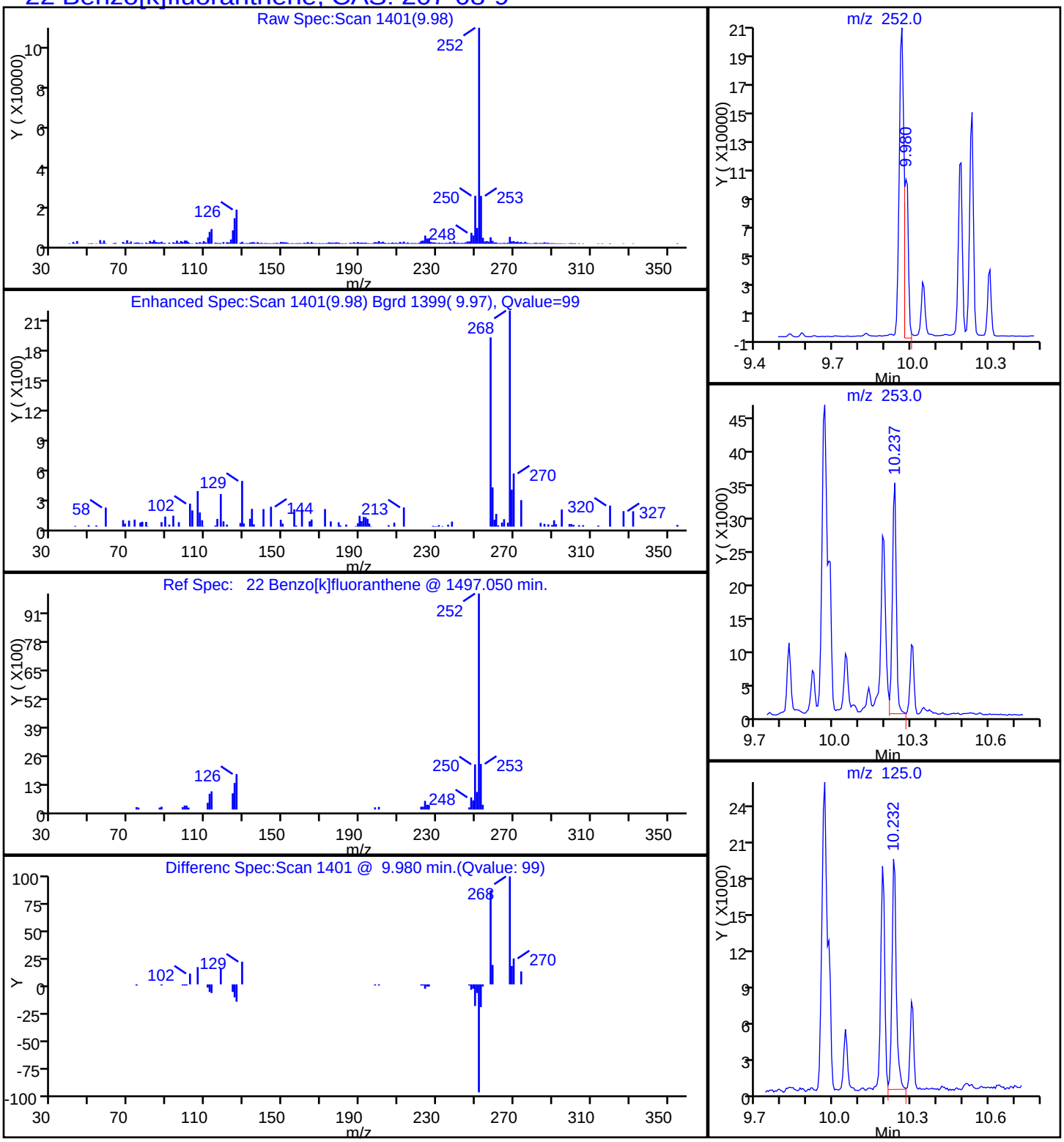
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1611.D | | | | |
| Injection Date: | 16-Oct-2014 13:12:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-18-A | Lab Sample ID: | 680-106200-18 | | |
| Client ID: | CV0971WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 10 | Worklist Smp#: | 11 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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



Report Date: 17-Oct-2014 14:29:31 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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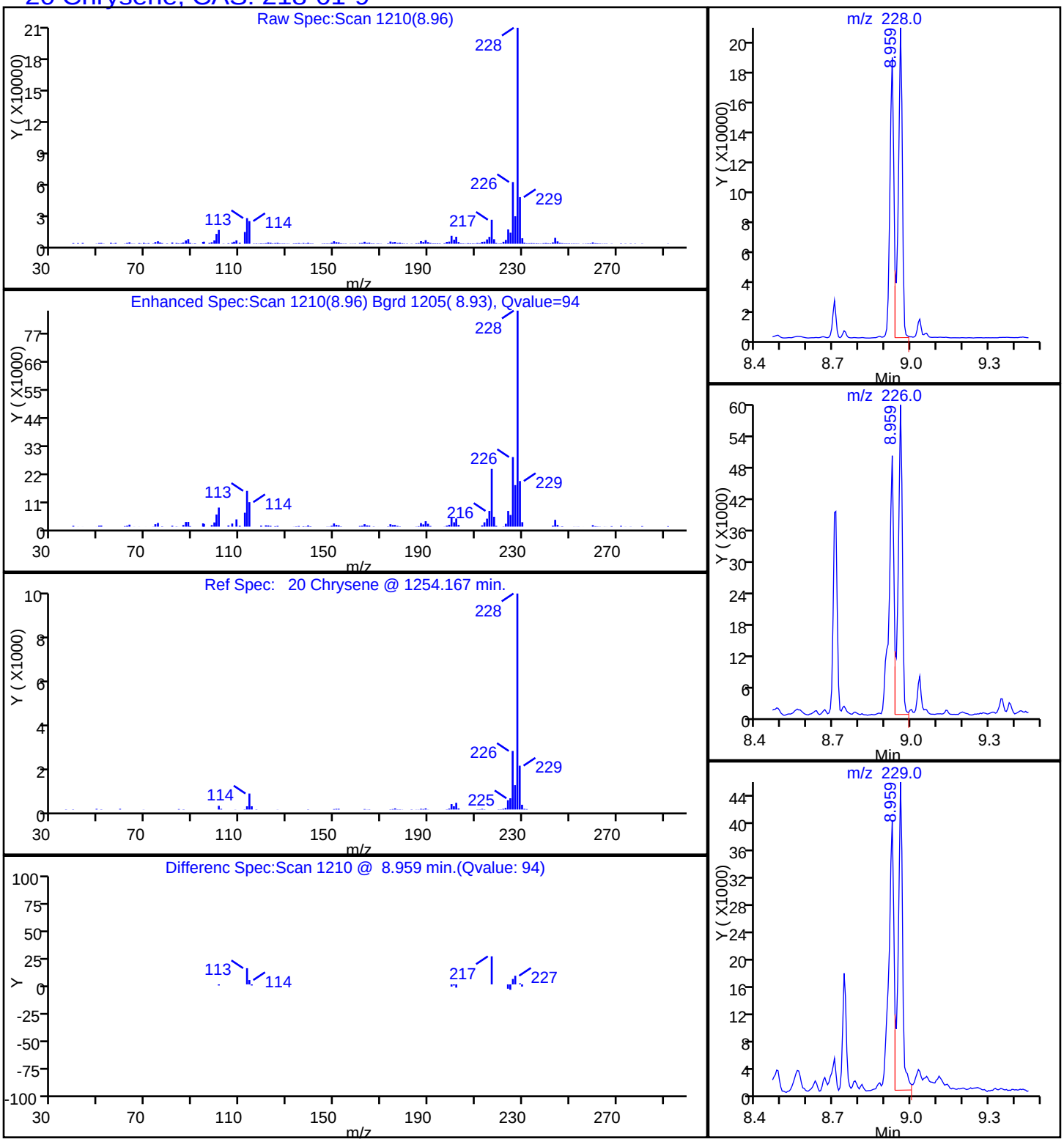
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1611.D | | | | |
| Injection Date: | 16-Oct-2014 13:12:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-18-A | Lab Sample ID: | 680-106200-18 | | |
| Client ID: | CV0971WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 10 | Worklist Smp#: | 11 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 20 Chrysene, CAS: 218-01-9



Report Date: 17-Oct-2014 14:29:32 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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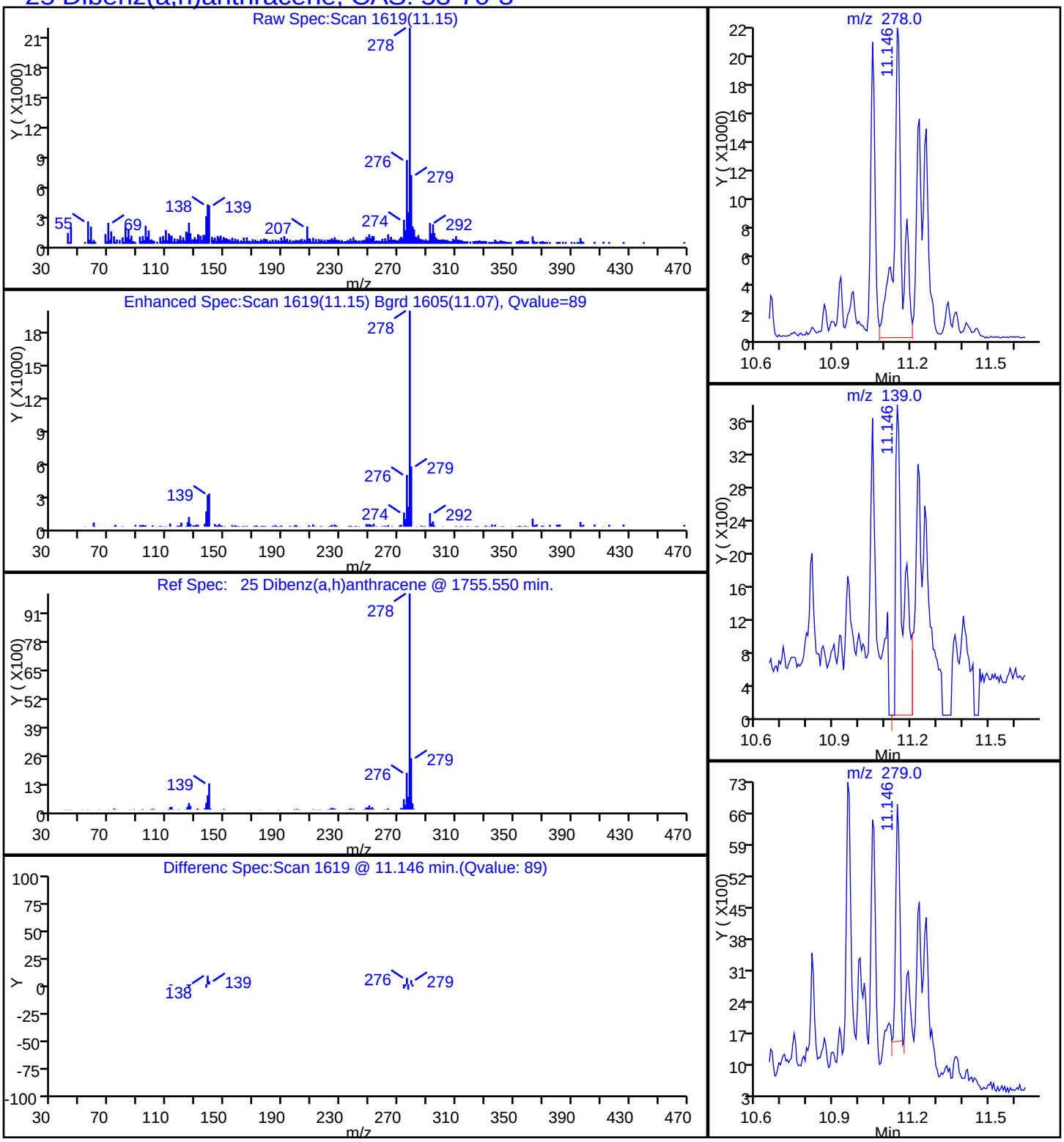
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1611.D | | | | |
| Injection Date: | 16-Oct-2014 13:12:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-18-A | Lab Sample ID: | 680-106200-18 | | |
| Client ID: | CV0971WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 10 | Worklist Smp#: | 11 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

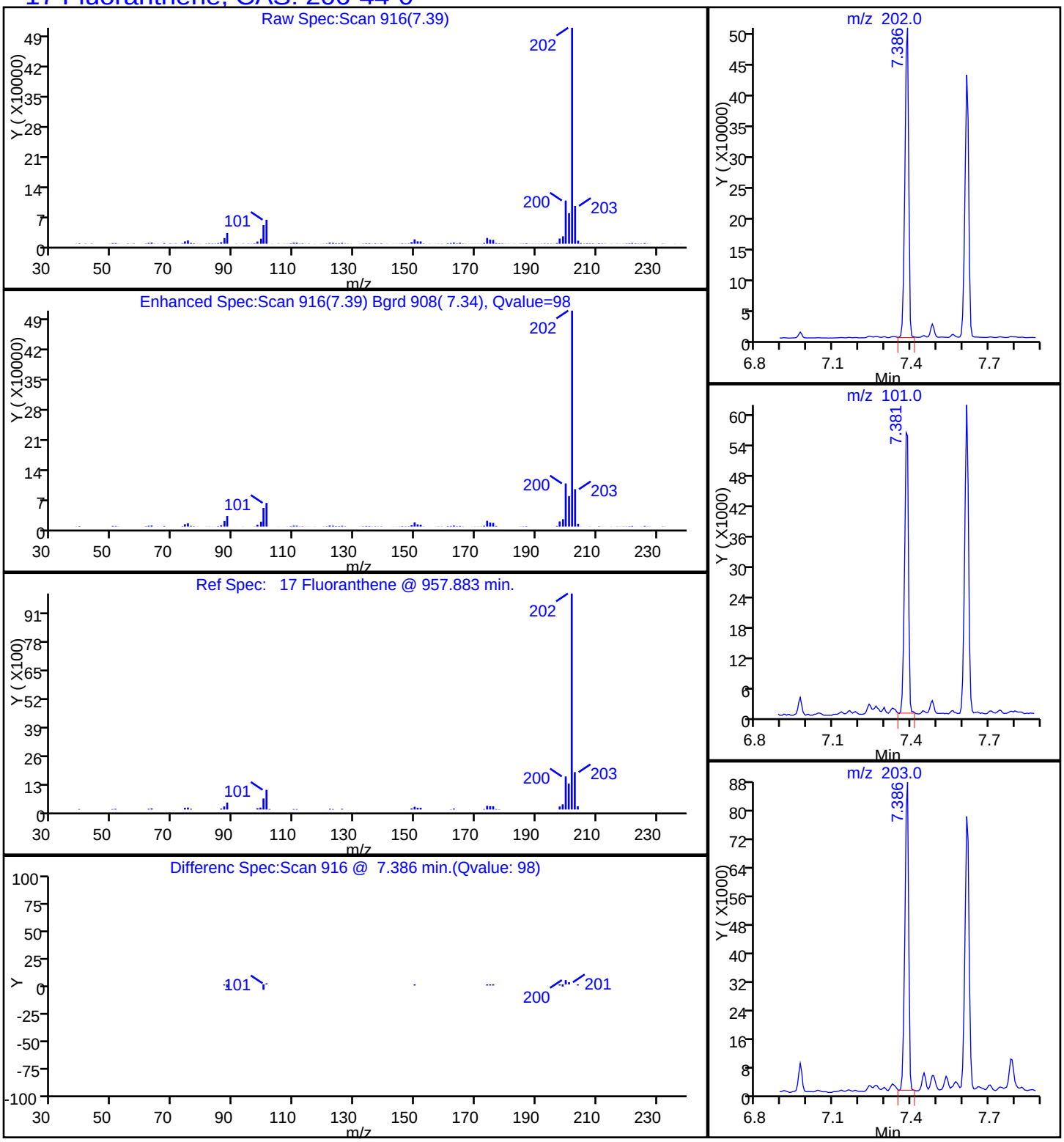


Report Date: 17-Oct-2014 14:29:30 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1611.D | | | | |
| Injection Date: | 16-Oct-2014 13:12:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-18-A | Lab Sample ID: | 680-106200-18 | | |
| Client ID: | CV0971WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 10 | Worklist Smp#: | 11 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

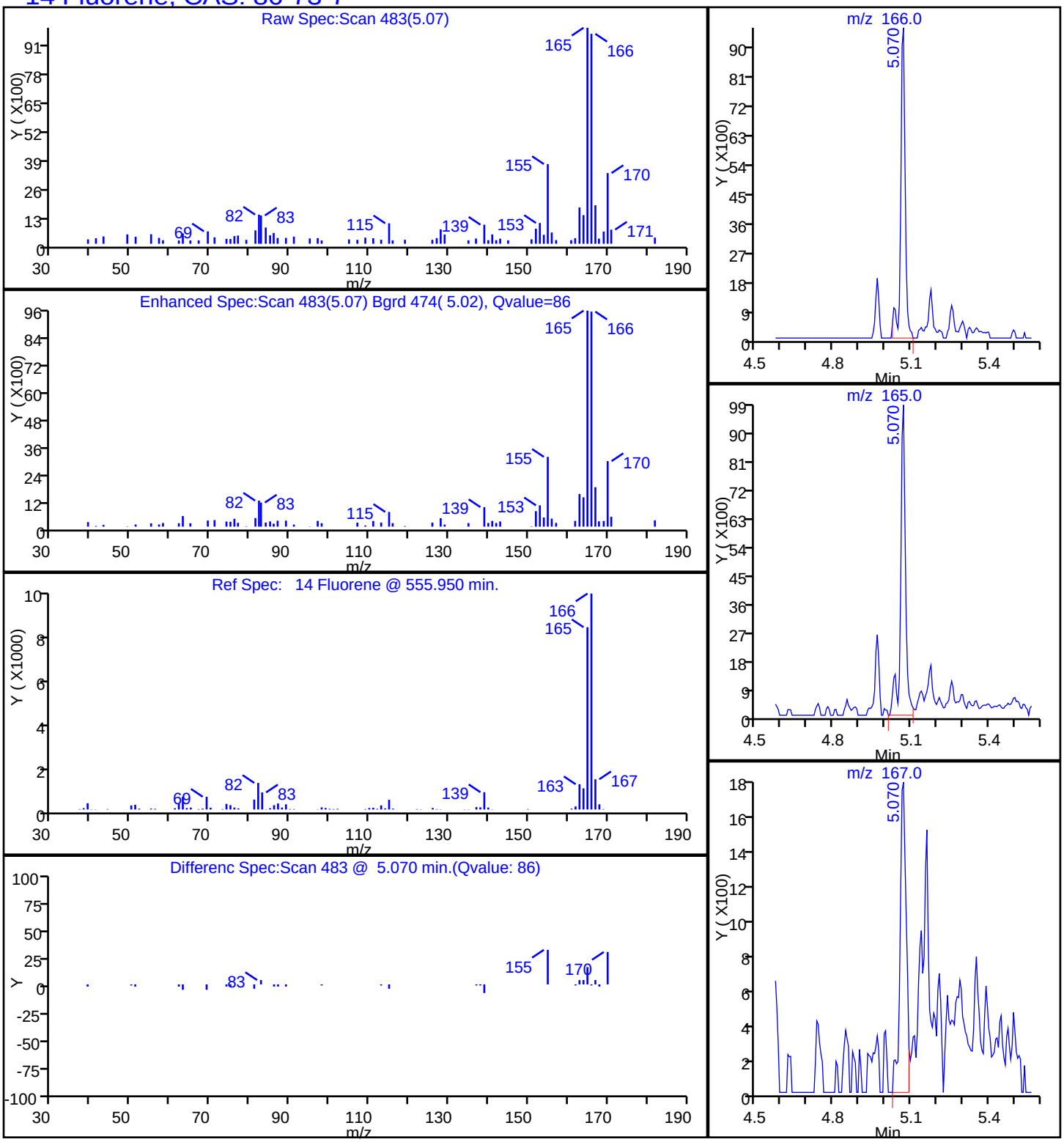


Report Date: 17-Oct-2014 14:29:30 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1611.D | | | | |
| Injection Date: | 16-Oct-2014 13:12:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-18-A | Lab Sample ID: | 680-106200-18 | | |
| Client ID: | CV0971WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 10 | Worklist Smp#: | 11 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

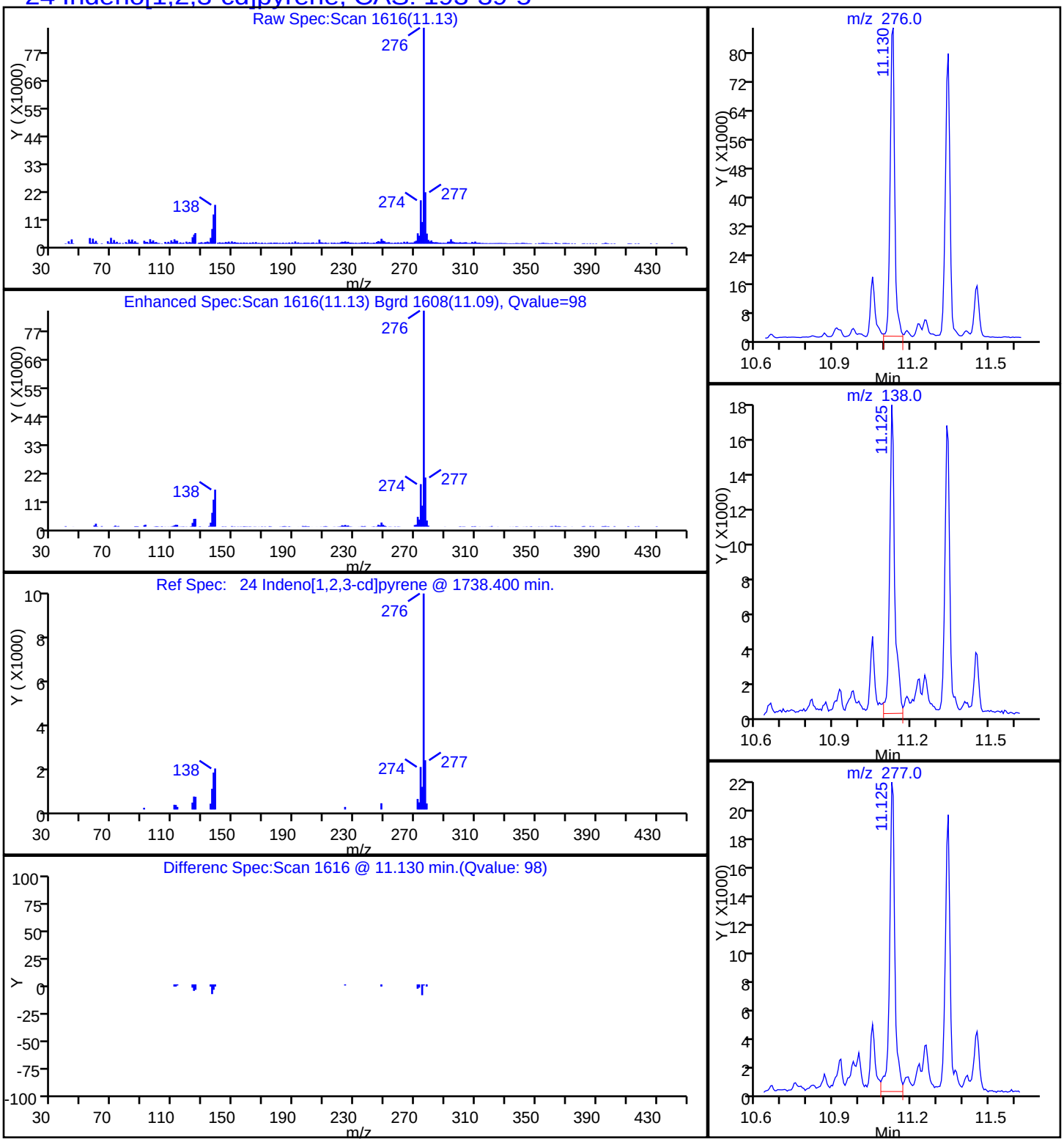


Report Date: 17-Oct-2014 14:29:32 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1611.D | | | | |
| Injection Date: | 16-Oct-2014 13:12:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-18-A | Lab Sample ID: | 680-106200-18 | | |
| Client ID: | CV0971WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 10 | Worklist Smp#: | 11 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

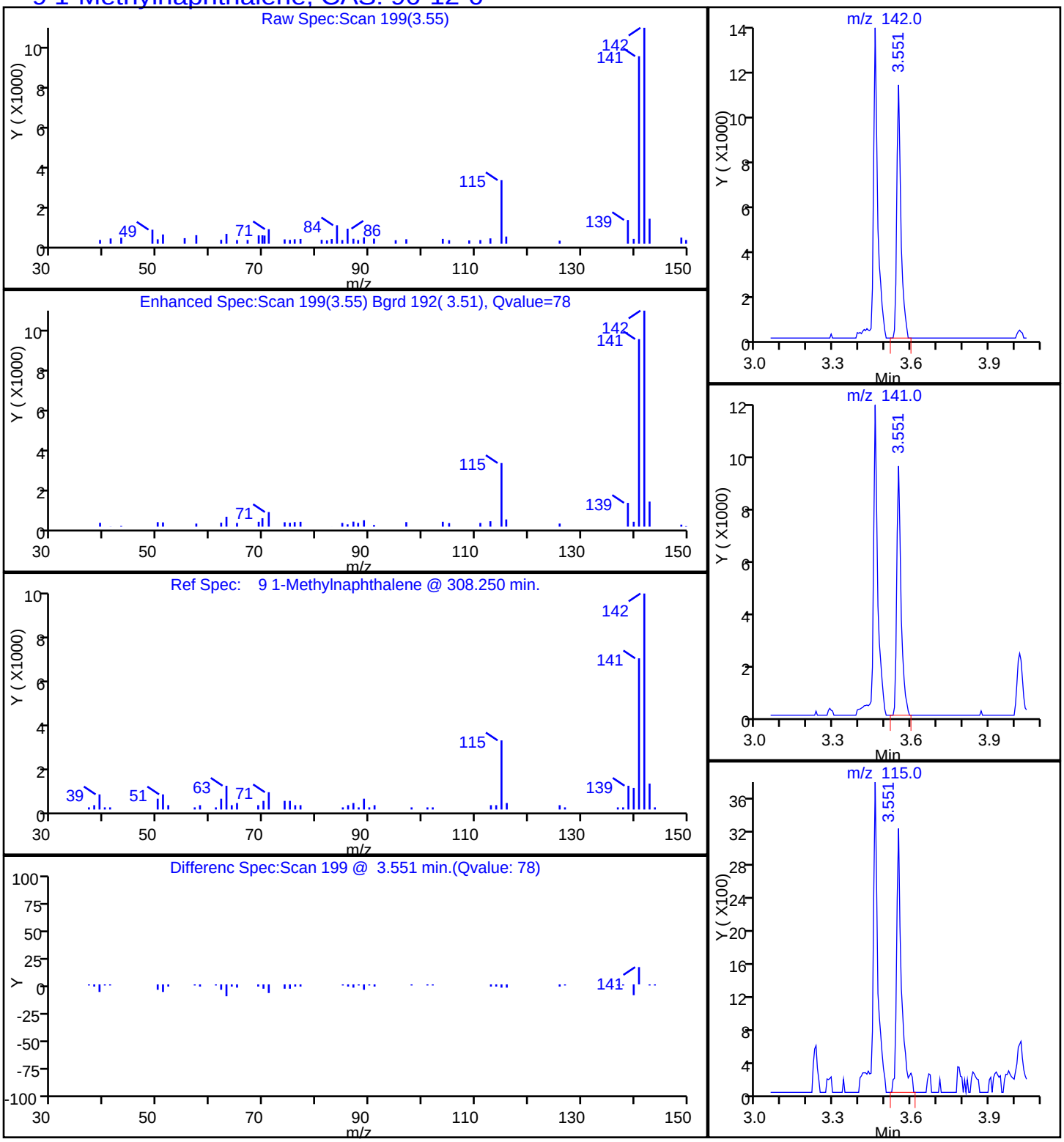


Report Date: 17-Oct-2014 14:29:30 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1611.D | | | | |
| Injection Date: | 16-Oct-2014 13:12:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-18-A | Lab Sample ID: | 680-106200-18 | | |
| Client ID: | CV0971WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 10 | Worklist Smp#: | 11 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 9 1-Methylnaphthalene, CAS: 90-12-0

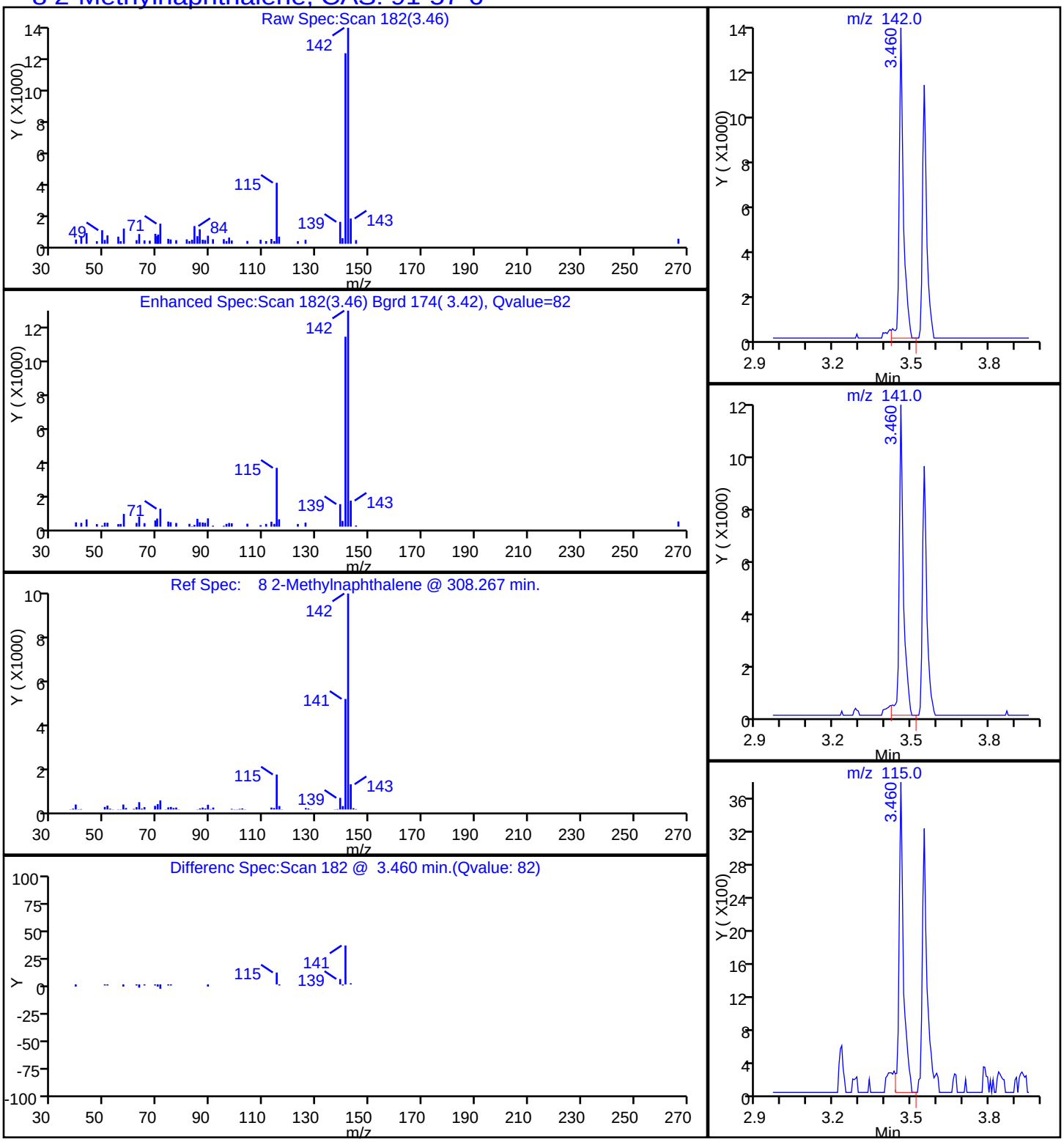


Report Date: 17-Oct-2014 14:29:30 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1611.D | | | | |
| Injection Date: | 16-Oct-2014 13:12:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-18-A | Lab Sample ID: | 680-106200-18 | | |
| Client ID: | CV0971WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 10 | Worklist Smp#: | 11 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 8 2-Methylnaphthalene, CAS: 91-57-6

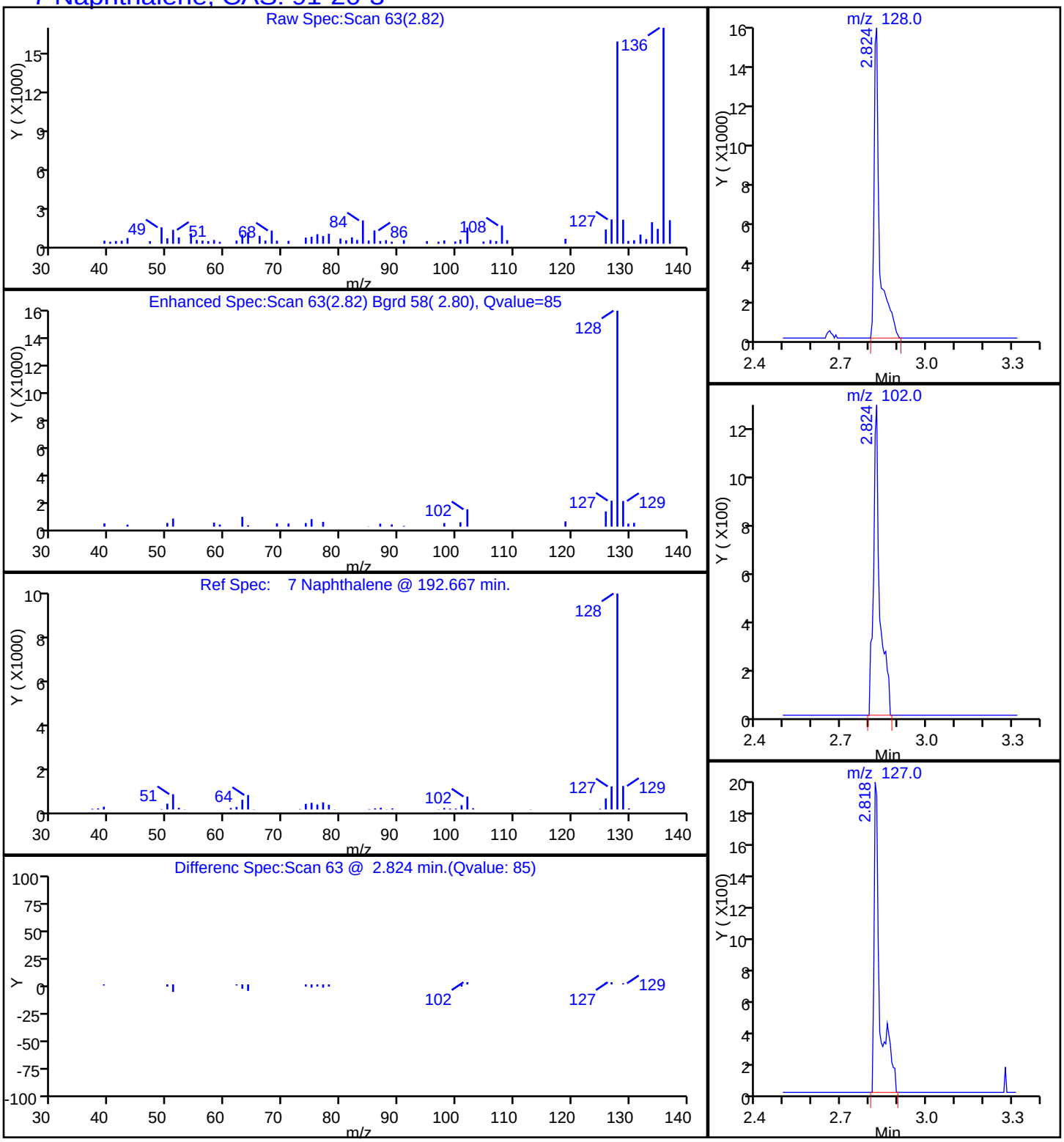


Report Date: 17-Oct-2014 14:29:30 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1611.D | | | | |
| Injection Date: | 16-Oct-2014 13:12:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-18-A | Lab Sample ID: | 680-106200-18 | | |
| Client ID: | CV0971WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 10 | Worklist Smp#: | 11 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 7 Naphthalene, CAS: 91-20-3

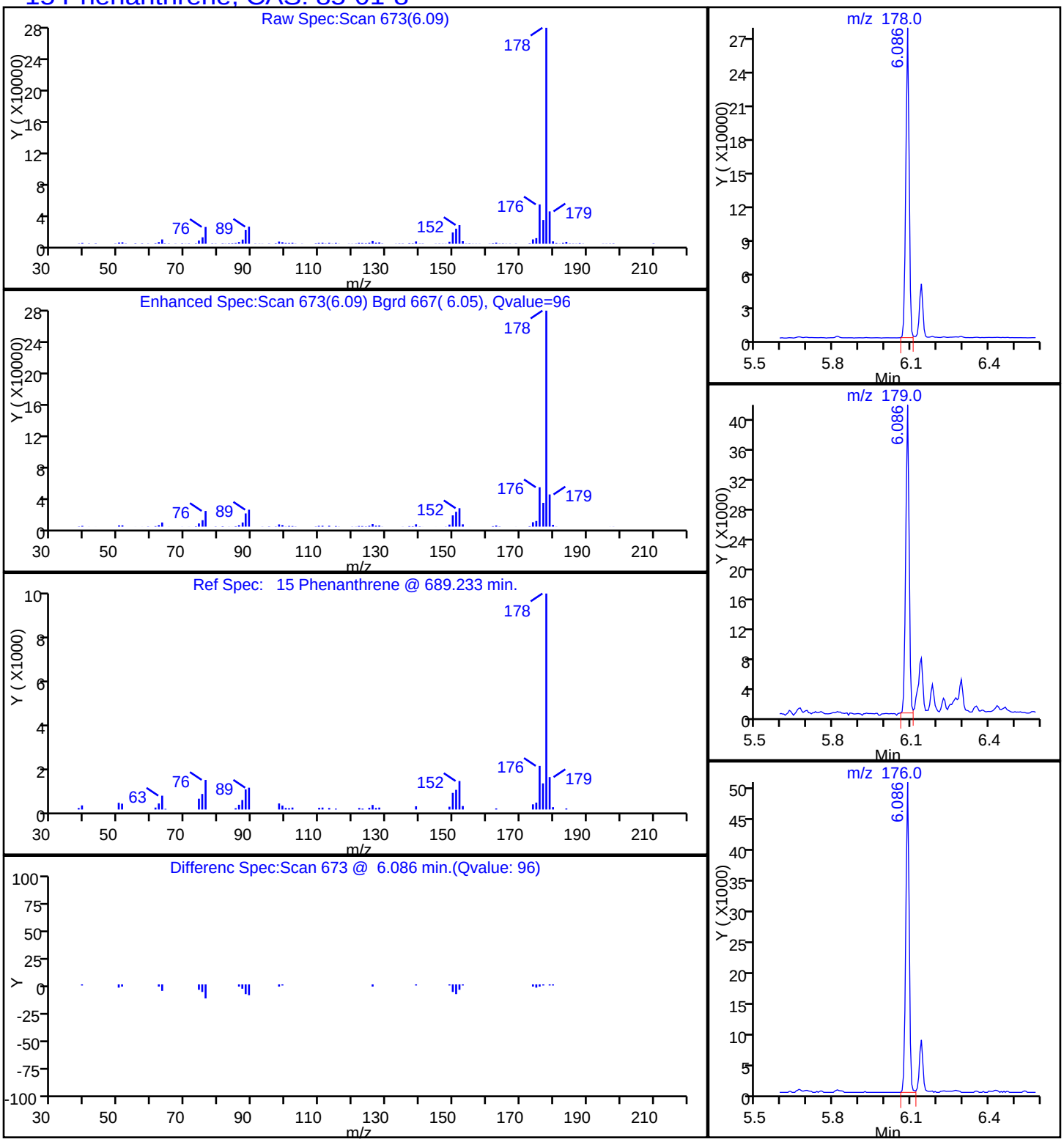


Report Date: 17-Oct-2014 14:29:30 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1611.D | | | | |
| Injection Date: | 16-Oct-2014 13:12:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-18-A | Lab Sample ID: | 680-106200-18 | | |
| Client ID: | CV0971WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 10 | Worklist Smp#: | 11 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 15 Phenanthrene, CAS: 85-01-8

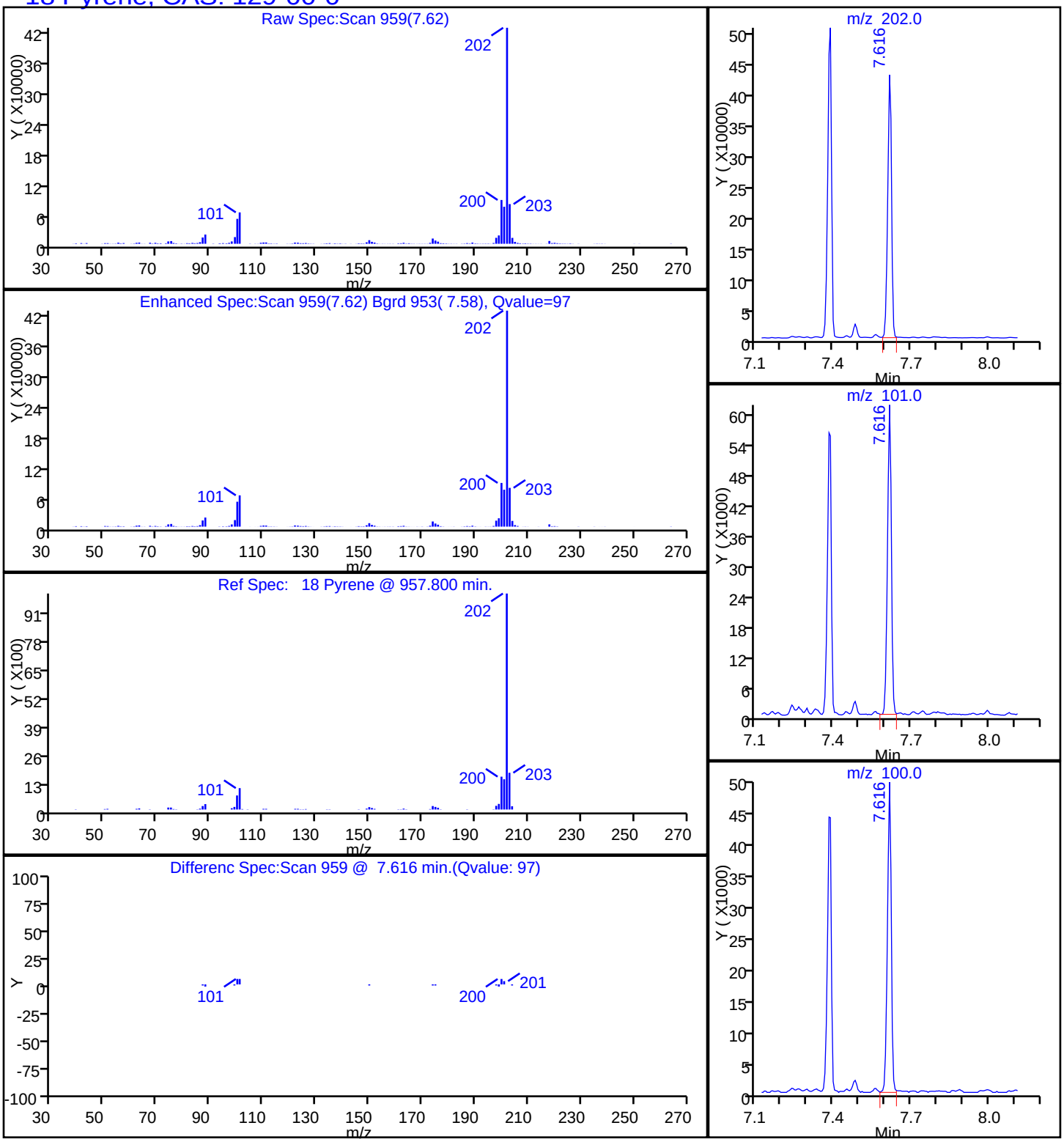


Report Date: 17-Oct-2014 14:29:30 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1611.D | | | | |
| Injection Date: | 16-Oct-2014 13:12:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-18-A | Lab Sample ID: | 680-106200-18 | | |
| Client ID: | CV0971WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 10 | Worklist Smp#: | 11 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 18 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

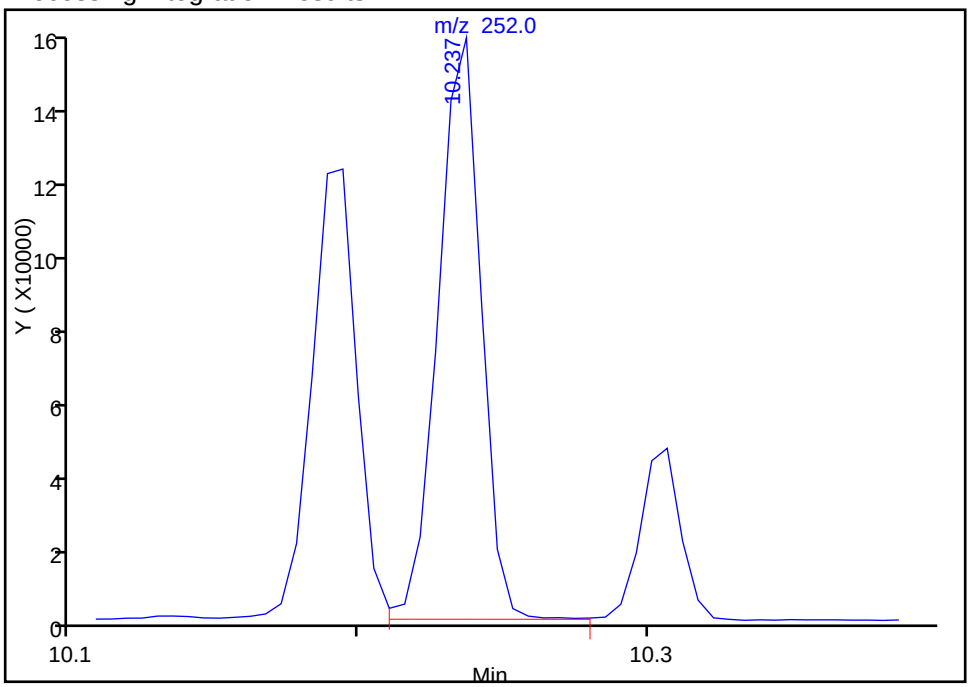
TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1611.D | | | | |
| Injection Date: | 16-Oct-2014 13:12:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-18-A | Lab Sample ID: | 680-106200-18 | | |
| Client ID: | CV0971WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 10 | Worklist Smp#: | 11 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

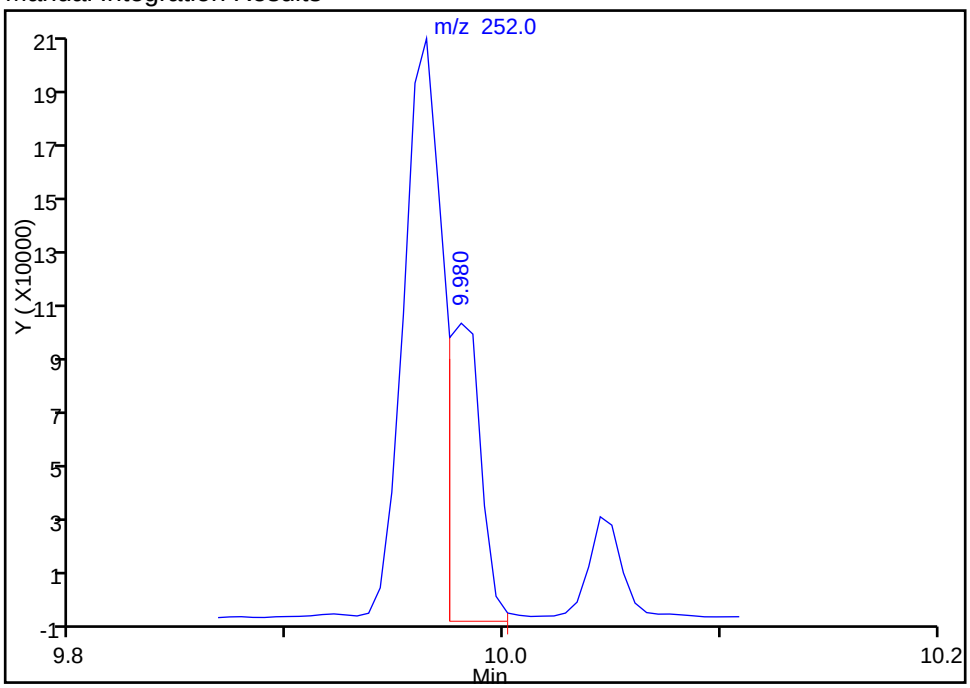
Processing Integration Results

RT: 10.24
Response: 154372
Amount: 3.054838




Manual Integration Results

RT: 9.98
Response: 116215
Amount: 2.292245




Reviewer: webbk, 16-Oct-2014 13:58:20
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0971WW-CSD6 | Lab Sample ID: 680-106200-19

Matrix: Solid | Lab File ID: 2YJ1528.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 13:40

Extract. Method: 3546 | Date Extracted: 10/14/2014 10:14

Sample wt/vol: 30.03(g) | Date Analyzed: 10/15/2014 22:44

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 12.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353689 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 96 | J | 150 | 75 |
| 208-96-8 | Acenaphthylene | 190 | | 150 | 75 |
| 120-12-7 | Anthracene | 200 | | 150 | 75 |
| 56-55-3 | Benzo[a]anthracene | 1100 | | 150 | 75 |
| 50-32-8 | Benzo[a]pyrene | 1300 | | 150 | 27 |
| 205-99-2 | Benzo[b]fluoranthene | 2000 | | 150 | 75 |
| 191-24-2 | Benzo[g,h,i]perylene | 830 | | 150 | 75 |
| 207-08-9 | Benzo[k]fluoranthene | 690 | | 150 | 46 |
| 218-01-9 | Chrysene | 1500 | | 150 | 75 |
| 53-70-3 | Dibenz(a,h)anthracene | 310 | | 150 | 75 |
| 206-44-0 | Fluoranthene | 1900 | | 150 | 75 |
| 86-73-7 | Fluorene | 85 | J | 150 | 75 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 620 | | 150 | 75 |
| 90-12-0 | 1-Methylnaphthalene | 120 | J | 150 | 71 |
| 91-57-6 | 2-Methylnaphthalene | 130 | J | 150 | 75 |
| 91-20-3 | Naphthalene | 110 | J | 150 | 75 |
| 85-01-8 | Phenanthrene | 920 | | 150 | 55 |
| 129-00-0 | Pyrene | 2400 | | 150 | 75 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 0 | D | 36-131 |

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1528.D
Lims ID: 680-106200-A-19-A Lab Sample ID: 680-106200-19
Client ID: CV0971WW-CSD6
Sample Type: Client
Inject. Date: 15-Oct-2014 22:44:30 ALS Bottle#: 26 Worklist Smp#: 28
Injection Vol: 2.0 ul Dil. Factor: 20.0000
Sample Info: 106200-A-19-A 1:20
Misc. Info.: 680-0013789-028
Operator ID: RM Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141015-13789.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 16-Oct-2014 08:46:57 Calib Date: 07-Oct-2014 15:41:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: webbk Date: 16-Oct-2014 08:41:09

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.861 | 2.856 | 0.005 | 98 | 150666 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.557 | 4.546 | 0.011 | 90 | 84336 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.129 | 6.124 | 0.005 | 97 | 143561 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 9.007 | 8.996 | 0.011 | 99 | 111340 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.360 | 10.344 | 0.016 | 98 | 84756 | 2.00 | |
| 7 Naphthalene | 128 | 2.877 | 2.877 | 0.000 | 84 | 11387 | 0.1386 | |
| 8 2-Methylnaphthalene | 142 | 3.519 | 3.514 | 0.005 | 79 | 9560 | 0.1754 | |
| 9 1-Methylnaphthalene | 142 | 3.610 | 3.605 | 0.005 | 62 | 7875 | 0.1558 | |
| 11 Acenaphthylene | 152 | 4.402 | 4.396 | 0.006 | 95 | 20717 | 0.2535 | |
| 12 Acenaphthene | 153 | 4.589 | 4.584 | 0.005 | 64 | 6655 | 0.1268 | |
| 14 Fluorene | 166 | 5.134 | 5.129 | 0.005 | 76 | 6516 | 0.1124 | |
| 15 Phenanthrene | 178 | 6.156 | 6.151 | 0.005 | 96 | 104625 | 1.22 | |
| 16 Anthracene | 178 | 6.209 | 6.204 | 0.005 | 91 | 22434 | 0.2626 | |
| 17 Fluoranthene | 202 | 7.456 | 7.445 | 0.011 | 98 | 222881 | 2.45 | |
| 18 Pyrene | 202 | 7.686 | 7.680 | 0.006 | 98 | 229814 | 3.16 | |
| 19 Benzo[a]anthracene | 228 | 8.996 | 8.991 | 0.005 | 98 | 97900 | 1.50 | |
| 20 Chrysene | 228 | 9.028 | 9.023 | 0.005 | 87 | 121722 | 1.98 | |
| 21 Benzo[b]fluoranthene | 252 | 10.034 | 10.023 | 0.011 | 98 | 147914 | 2.65 | |
| 22 Benzo[k]fluoranthene | 252 | 10.055 | 10.050 | 0.005 | 99 | 48940 | 0.9063 | M |
| 23 Benzo[a]pyrene | 252 | 10.306 | 10.296 | 0.010 | 96 | 76769 | 1.67 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.216 | 11.200 | 0.016 | 99 | 50255 | 0.8221 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.237 | 11.227 | 0.010 | 27 | 16468 | 0.4109 | |
| 26 Benzo[g,h,i]perylene | 276 | 11.435 | 11.424 | 0.011 | 90 | 45668 | 1.09 | |

## QC Flag Legend

Review Flags
M - Manually Integrated

## Reagents:

SM-LLISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 16-Oct-2014 08:47:30 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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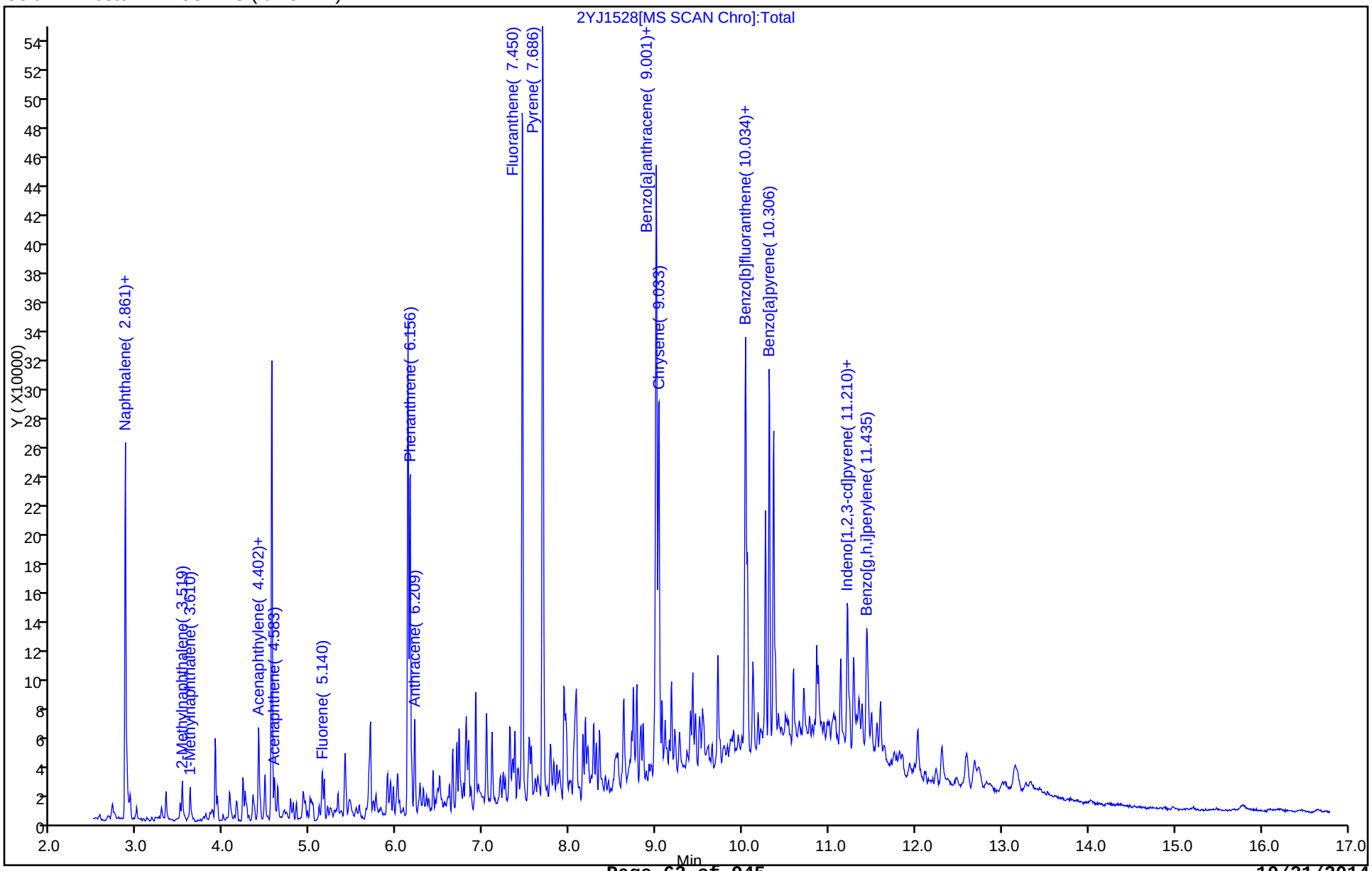
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1528.D | | | | |
| Injection Date: | 15-Oct-2014 22:44:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | 680-106200-A-19-A | Lab Sample ID: | 680-106200-19 | Worklist Smp#: | 28 |
| Client ID: | CV0971WW-CSD6 | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 20.0000 | ALS Bottle#: | 26 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)



Report Date: 16-Oct-2014 08:47:30 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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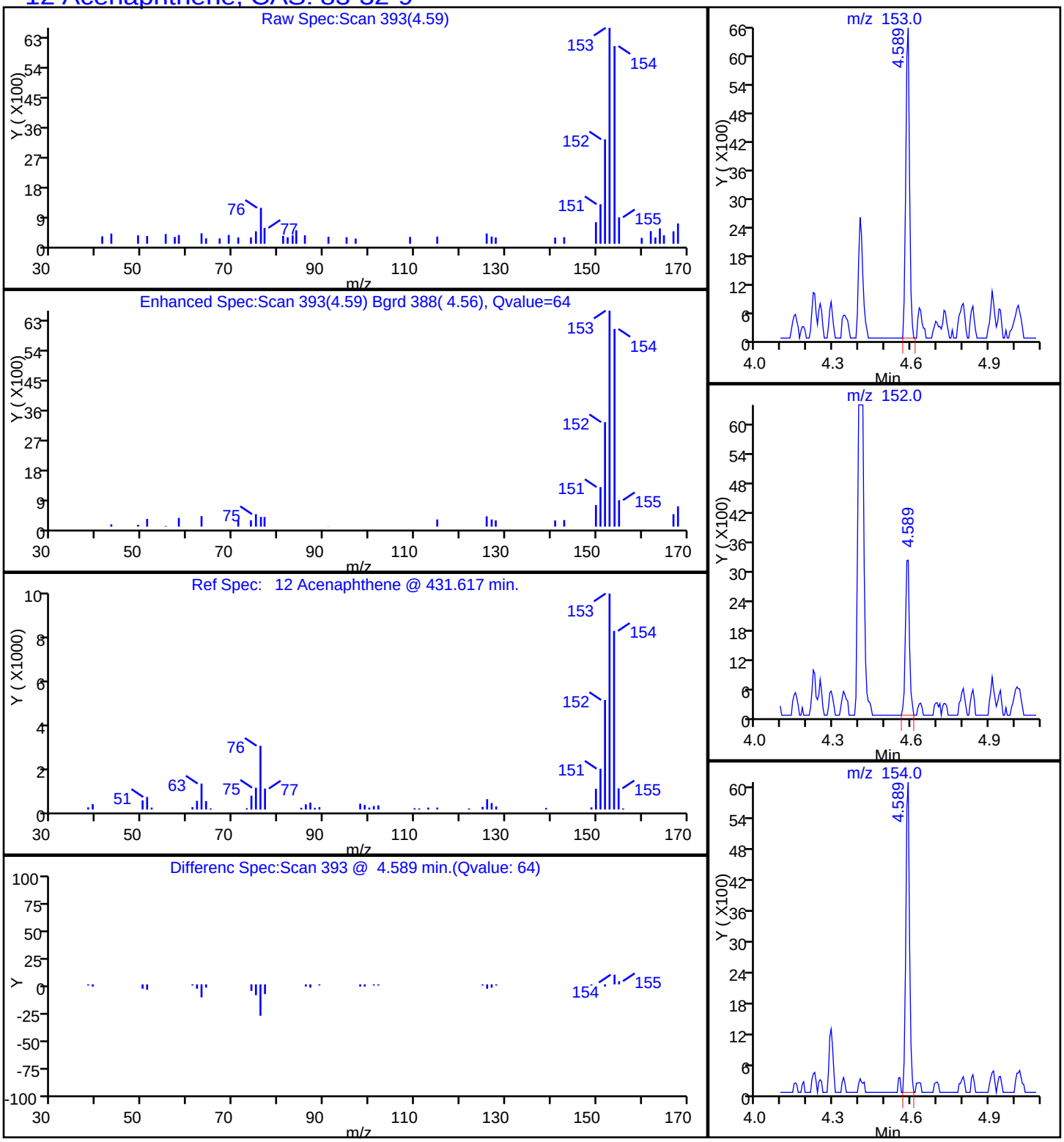
| Lims ID: | 680-106200-A-19-A | Lab Sample ID: | 680-106200-19 | | |
| Client ID: | CV0971WW-CSD6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 26 | Worklist Smp#: | 28 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 20.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 12 Acenaphthene, CAS: 83-32-9



Report Date: 16-Oct-2014 08:47:30 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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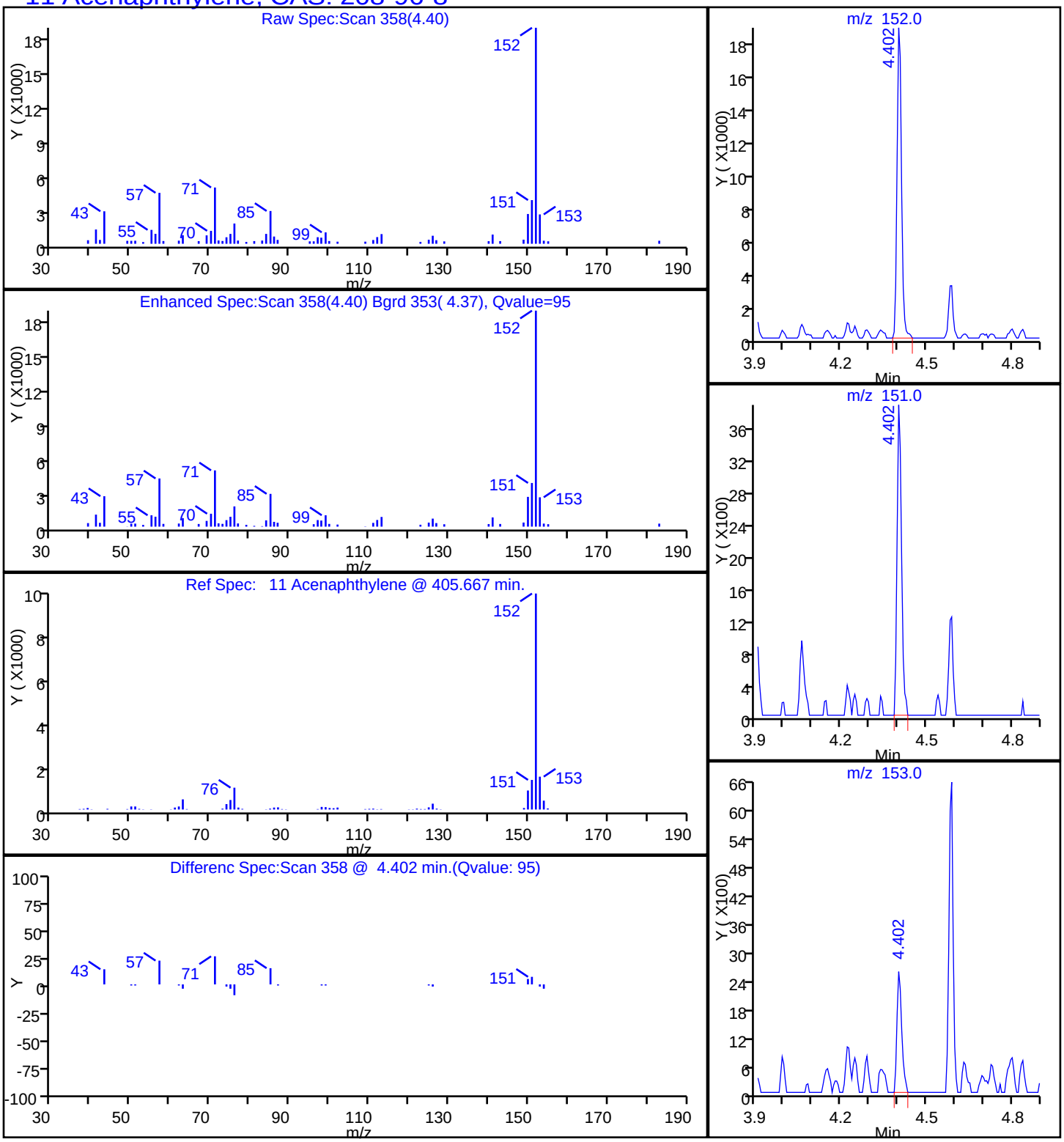
| Operator ID: | RM | ALS Bottle#: | 26 | Worklist Smp#: | 28 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 20.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 11 Acenaphthylene, CAS: 208-96-8



Report Date: 16-Oct-2014 08:47:31 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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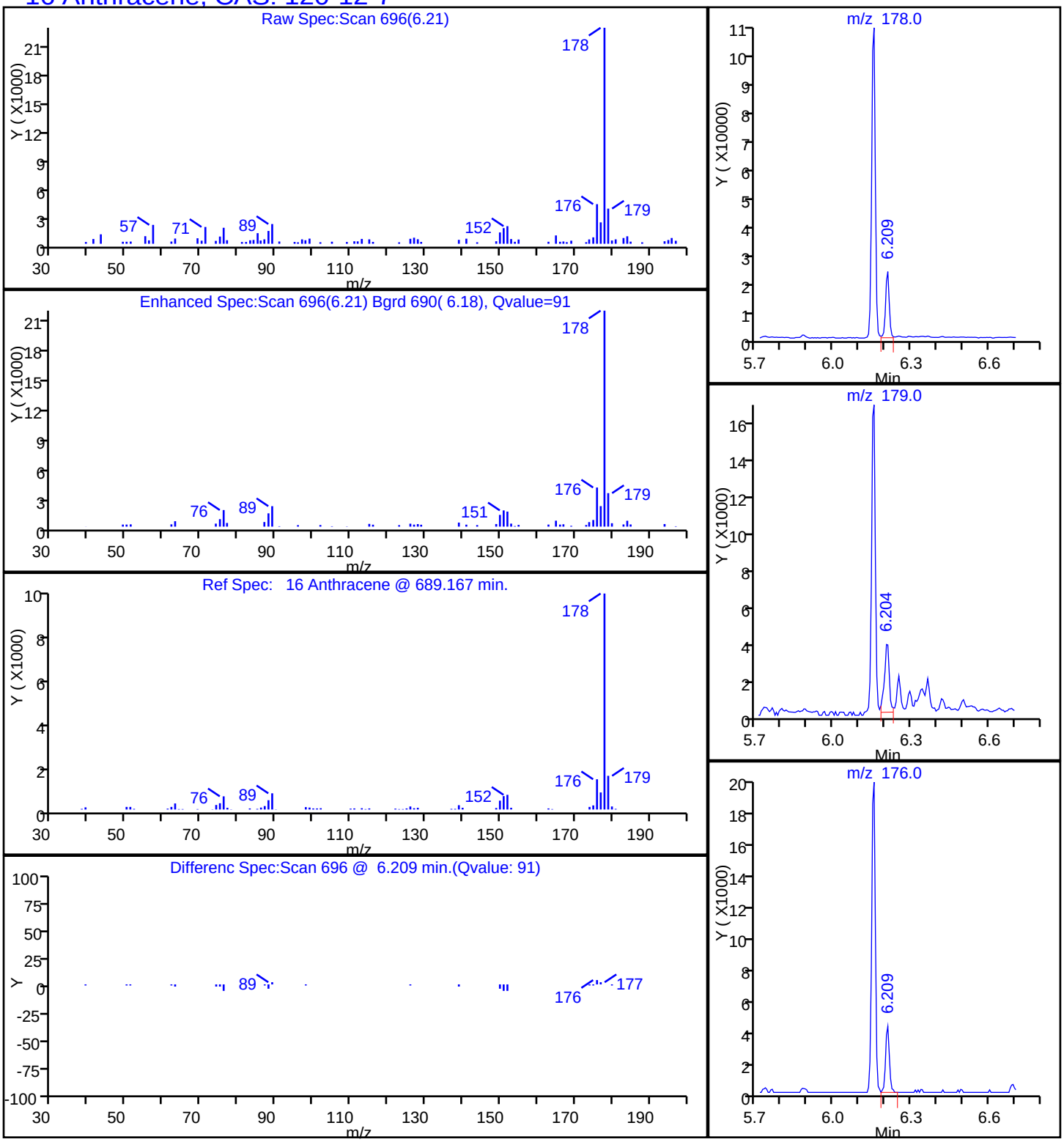
| Injection Vol: | 2.0 ul | Dil. Factor: | 20.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 16 Anthracene, CAS: 120-12-7



Report Date: 16-Oct-2014 08:47:31 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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| Injection Vol: | 2.0 ul | Dil. Factor: | 20.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
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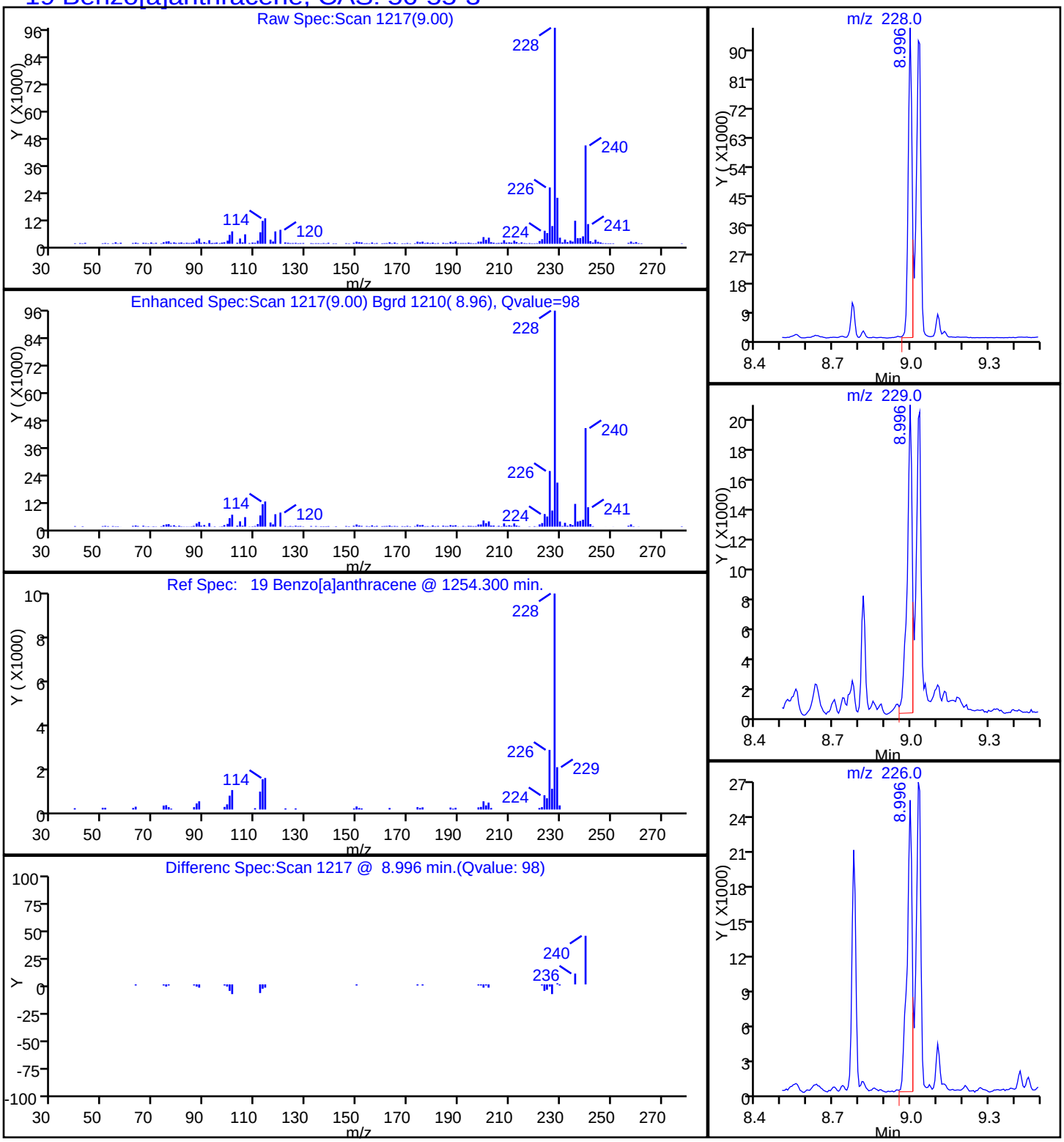
## 19 Benzo[a]anthracene, CAS: 56-55-3



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TestAmerica Savannah

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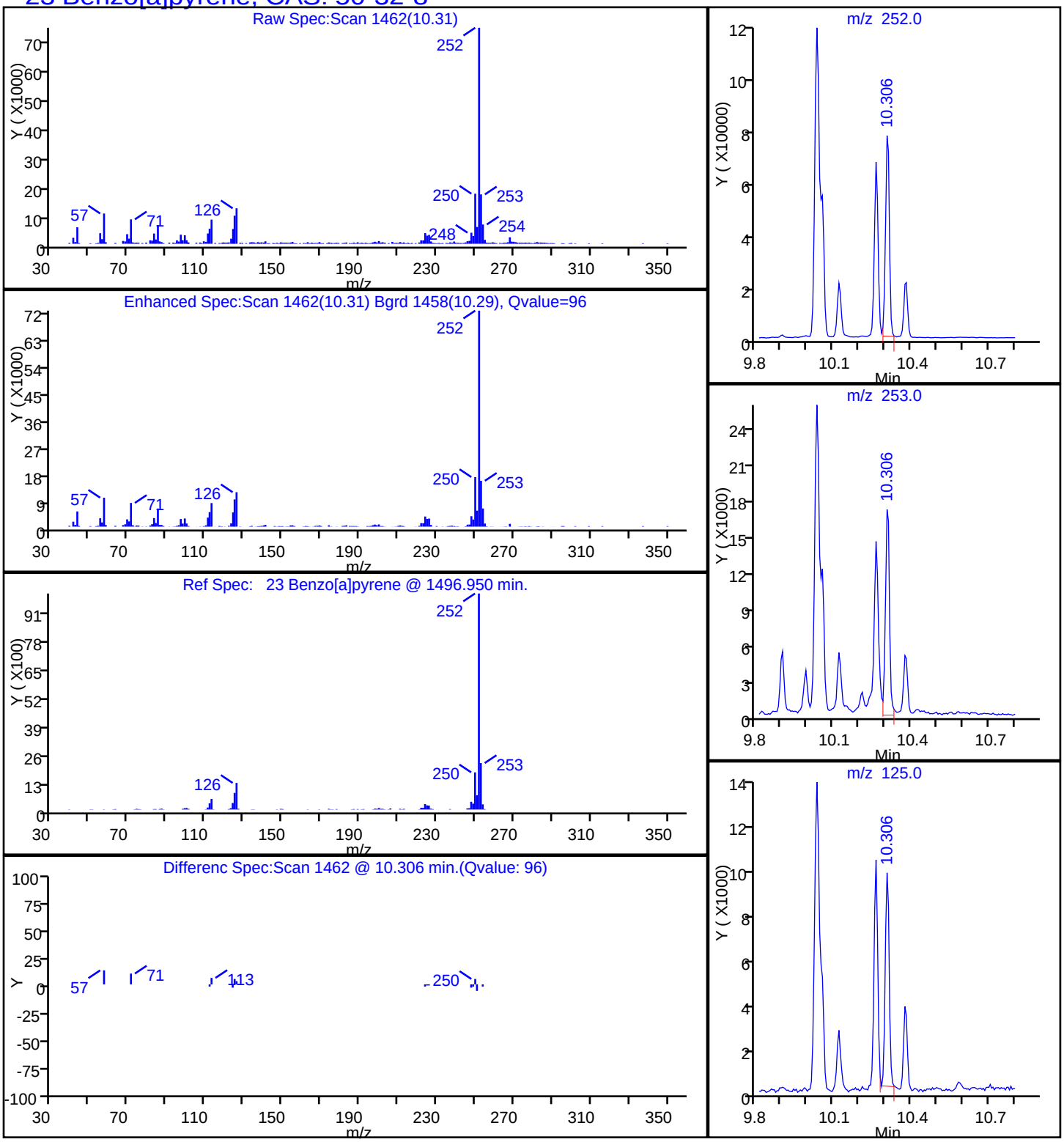
| Client ID: | CV0971WW-CSD6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 26 | Worklist Smp#: | 28 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 20.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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



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TestAmerica Savannah

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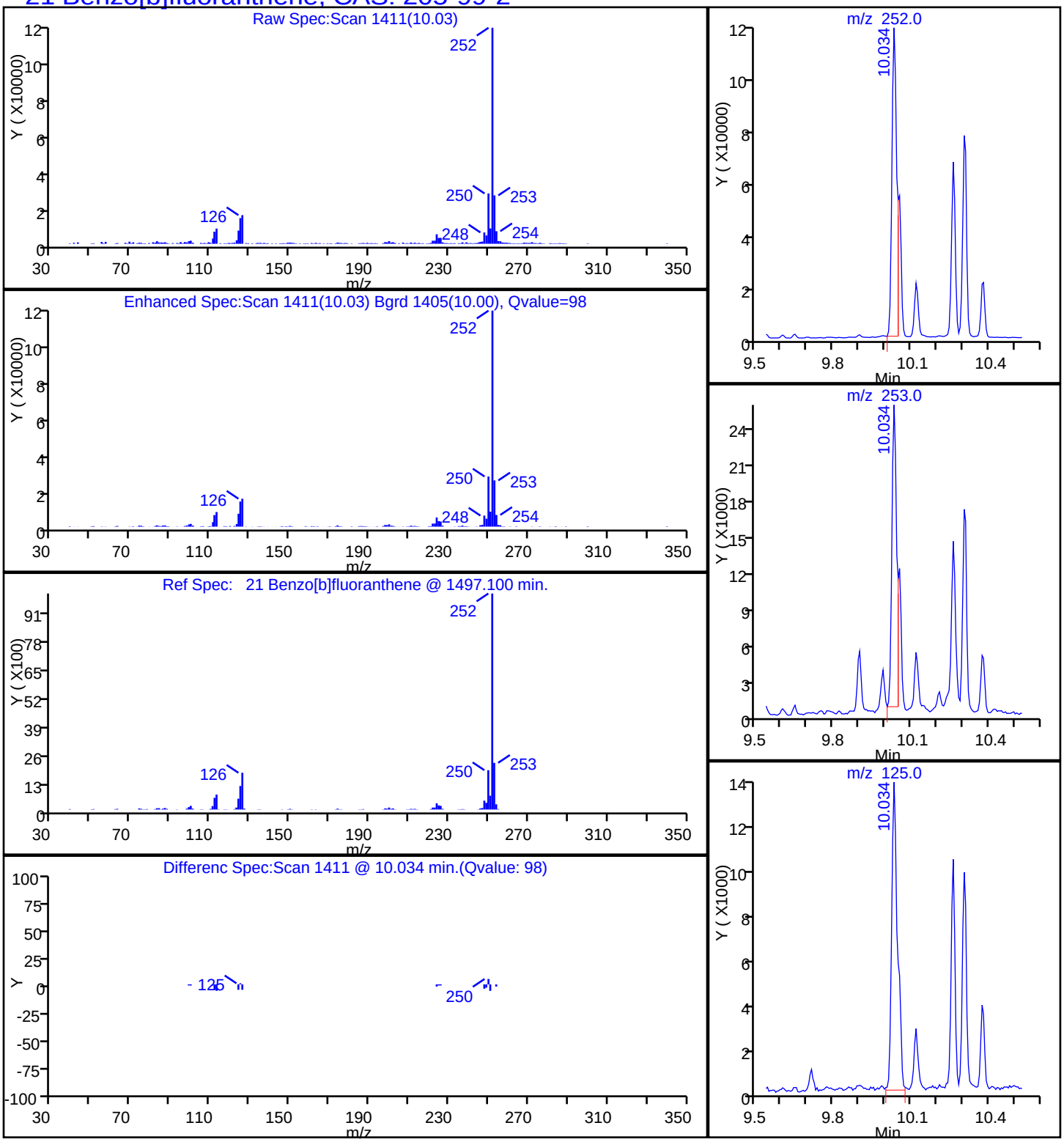
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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



Report Date: 16-Oct-2014 08:47:31 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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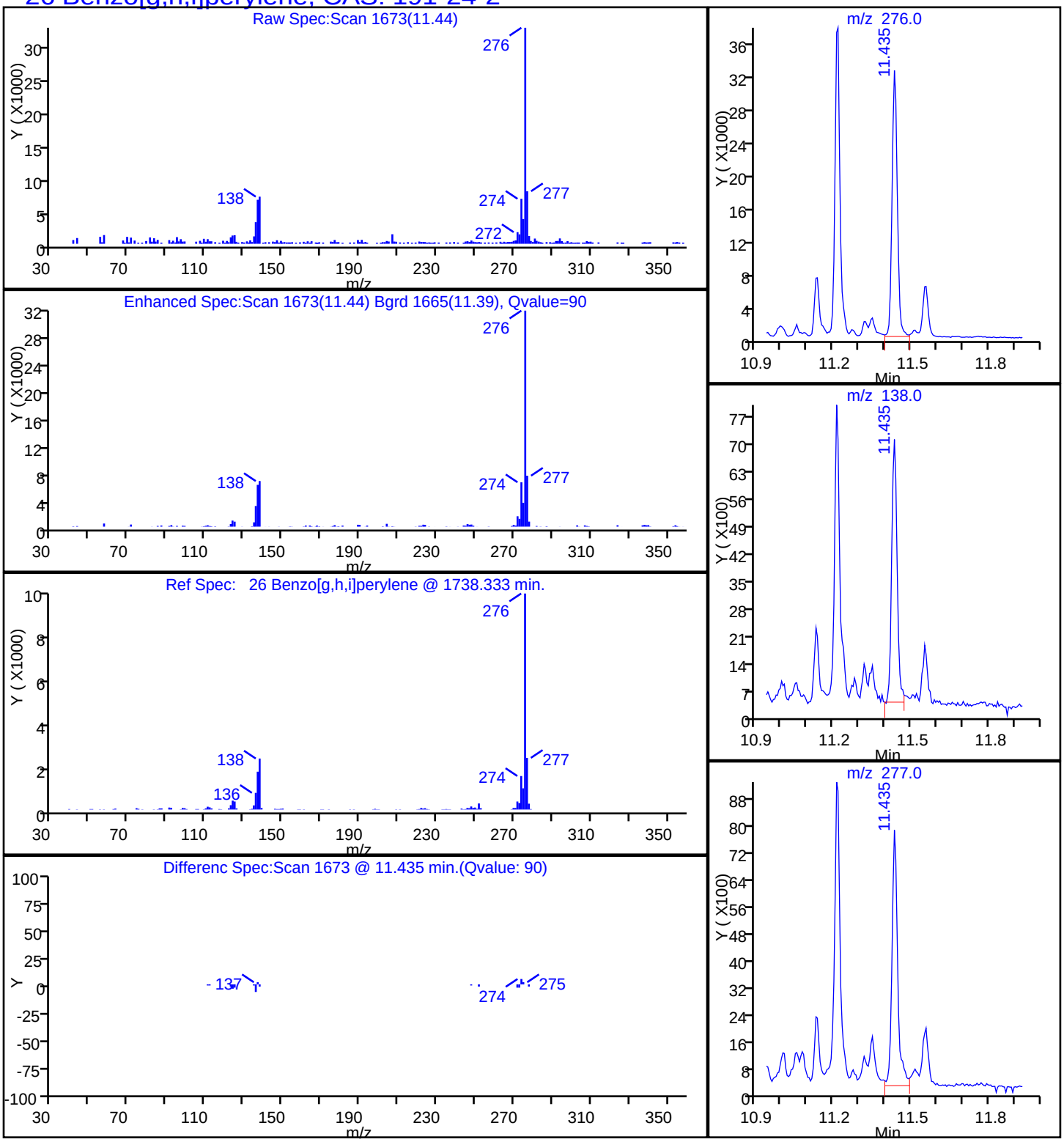
## 26 Benzo[g,h,i]perylene, CAS: 191-24-2



Report Date: 16-Oct-2014 08:47:31 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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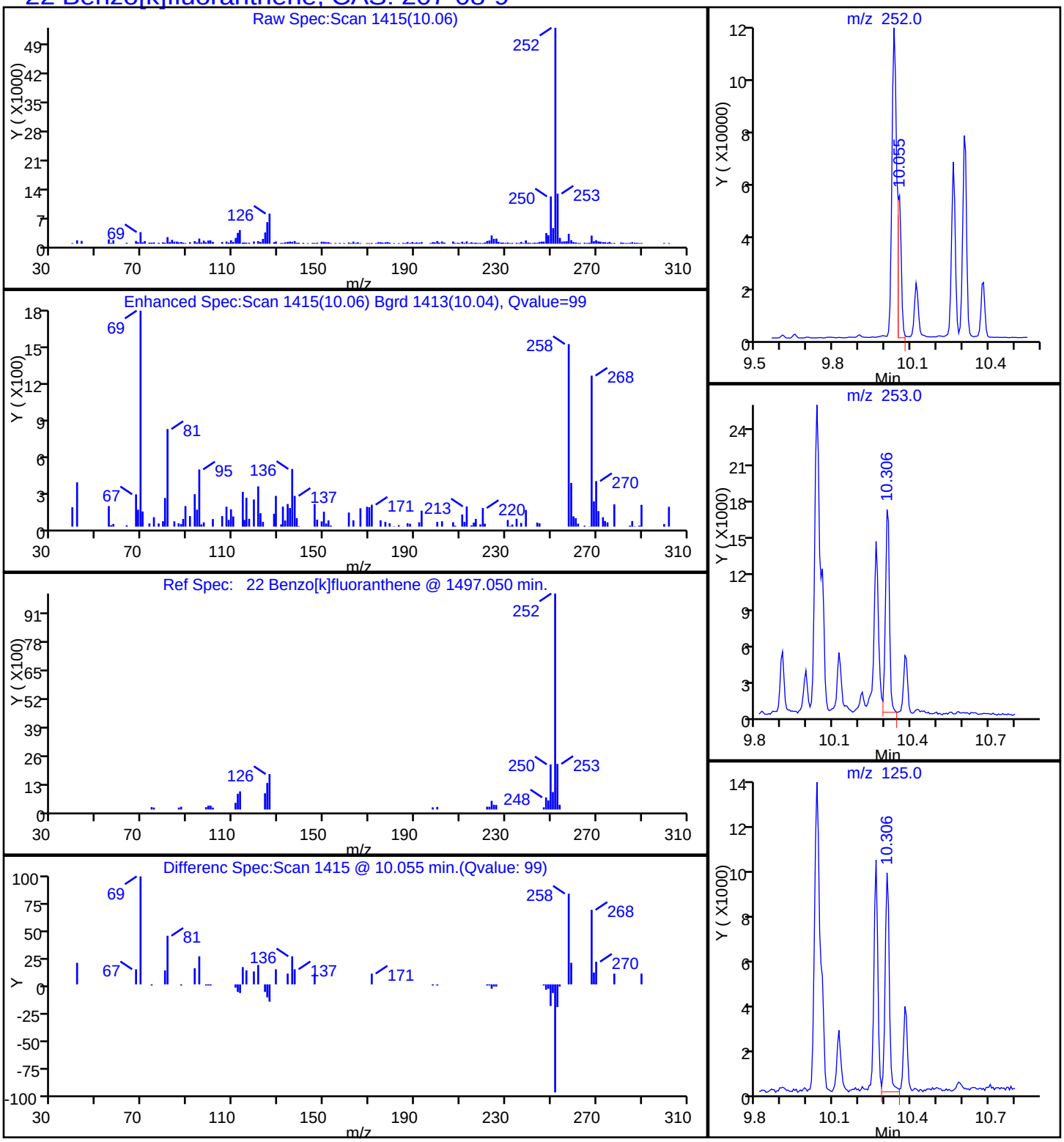
| Injection Vol: | 2.0 ul | Dil. Factor: | 20.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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



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TestAmerica Savannah

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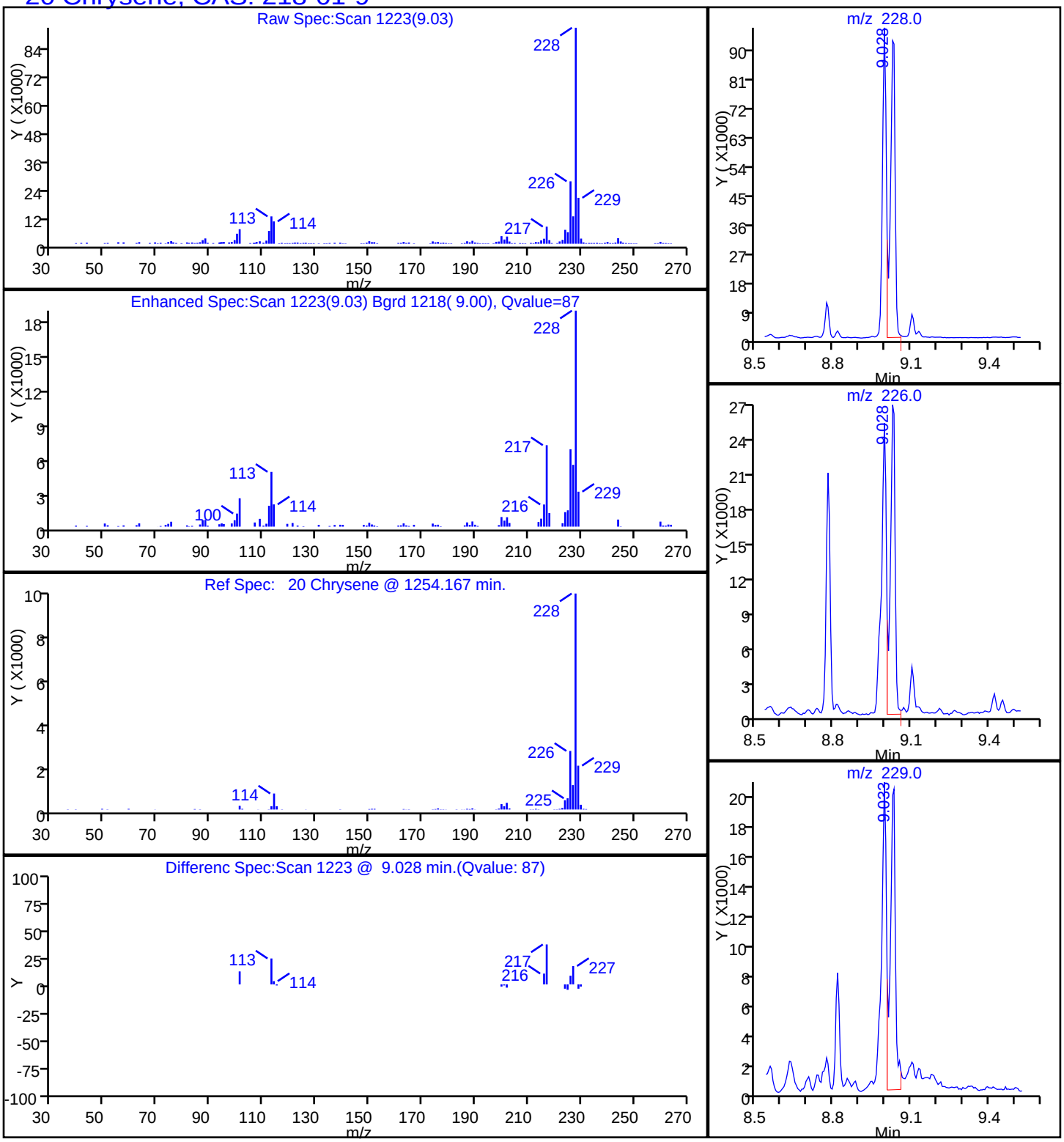
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 20 Chrysene, CAS: 218-01-9



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TestAmerica Savannah

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| Injection Vol: | 2.0 ul | Dil. Factor: | 20.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
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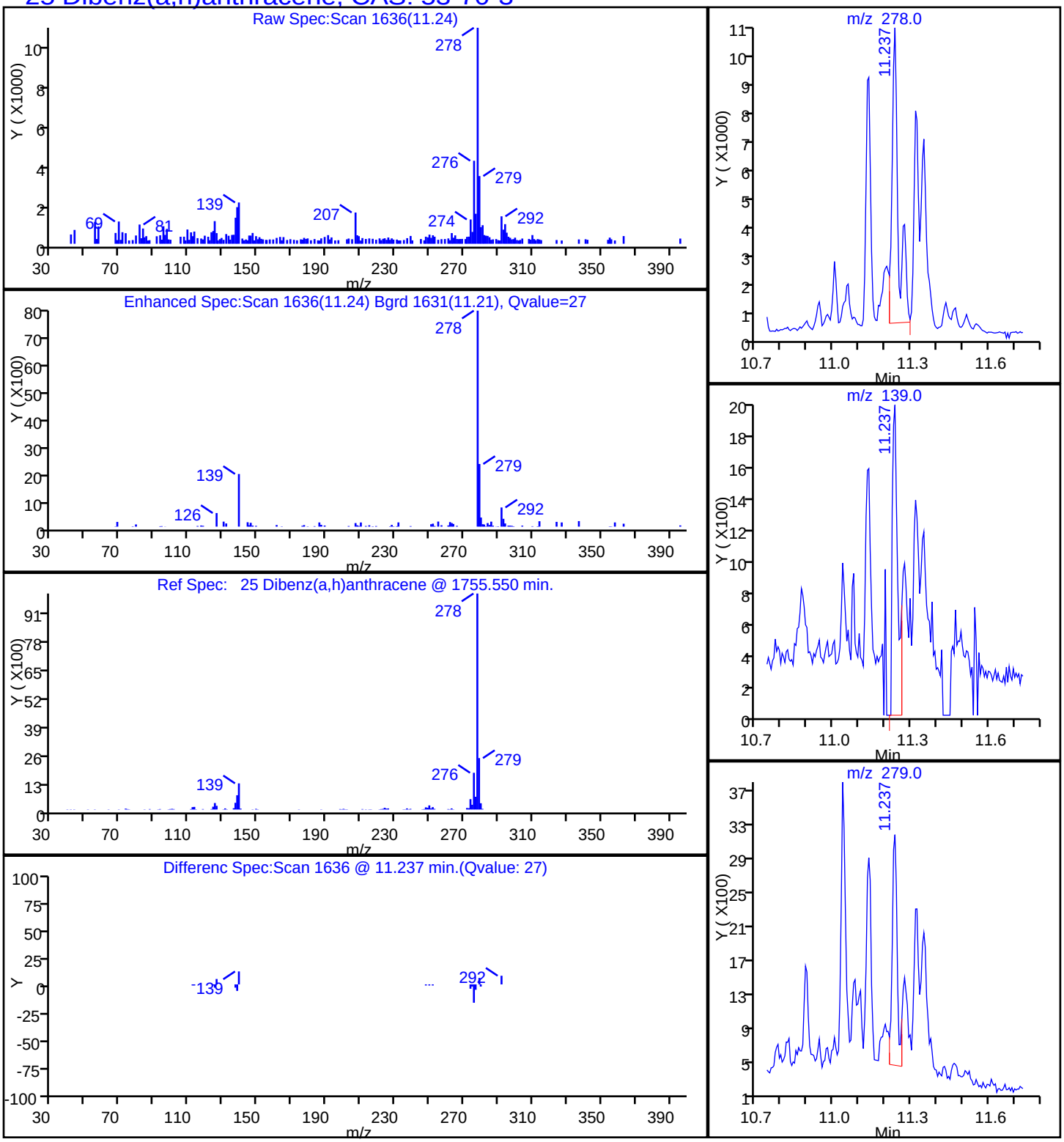
## 25 Dibenz(a,h)anthracene, CAS: 53-70-3



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TestAmerica Savannah

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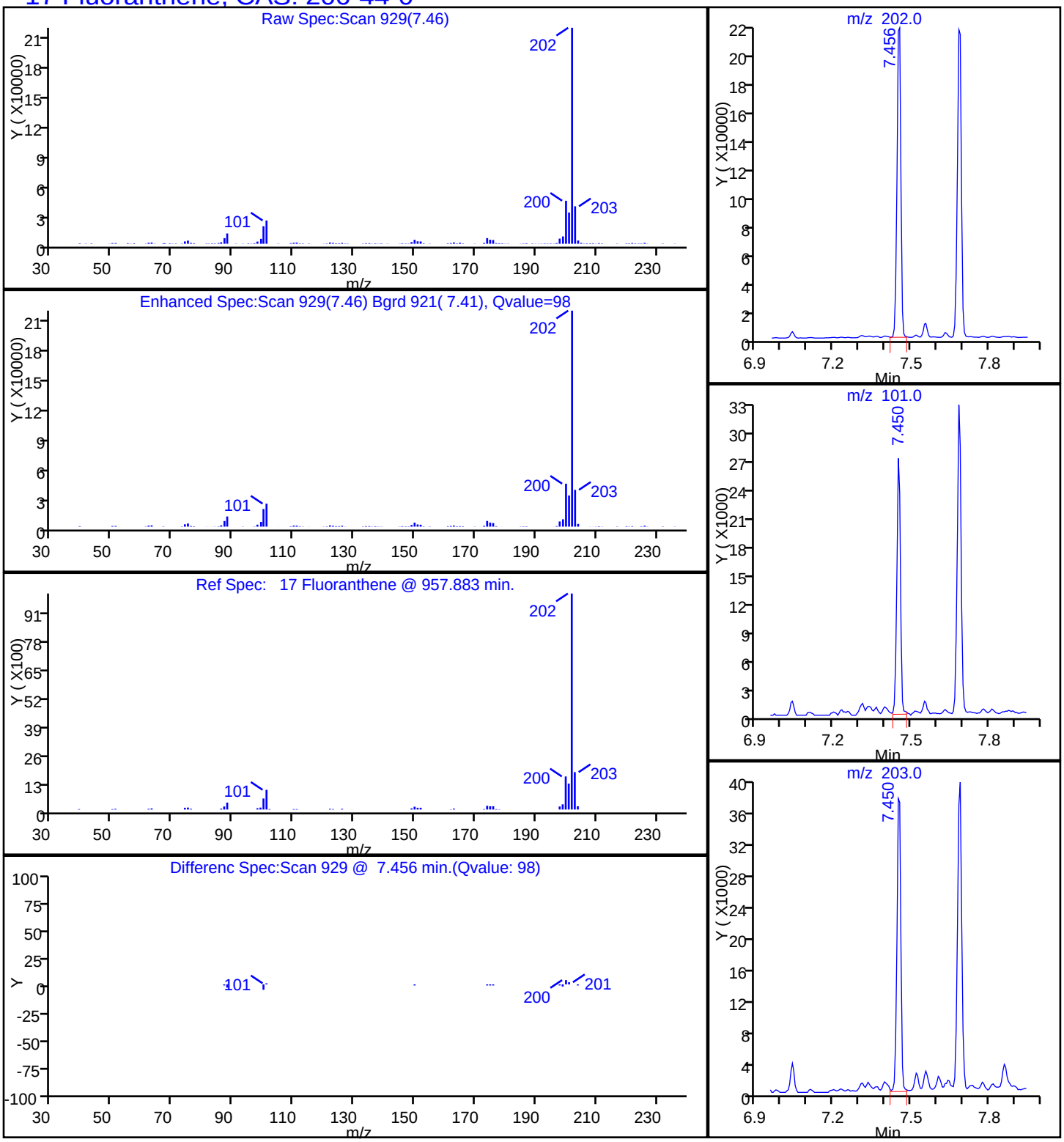
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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



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TestAmerica Savannah

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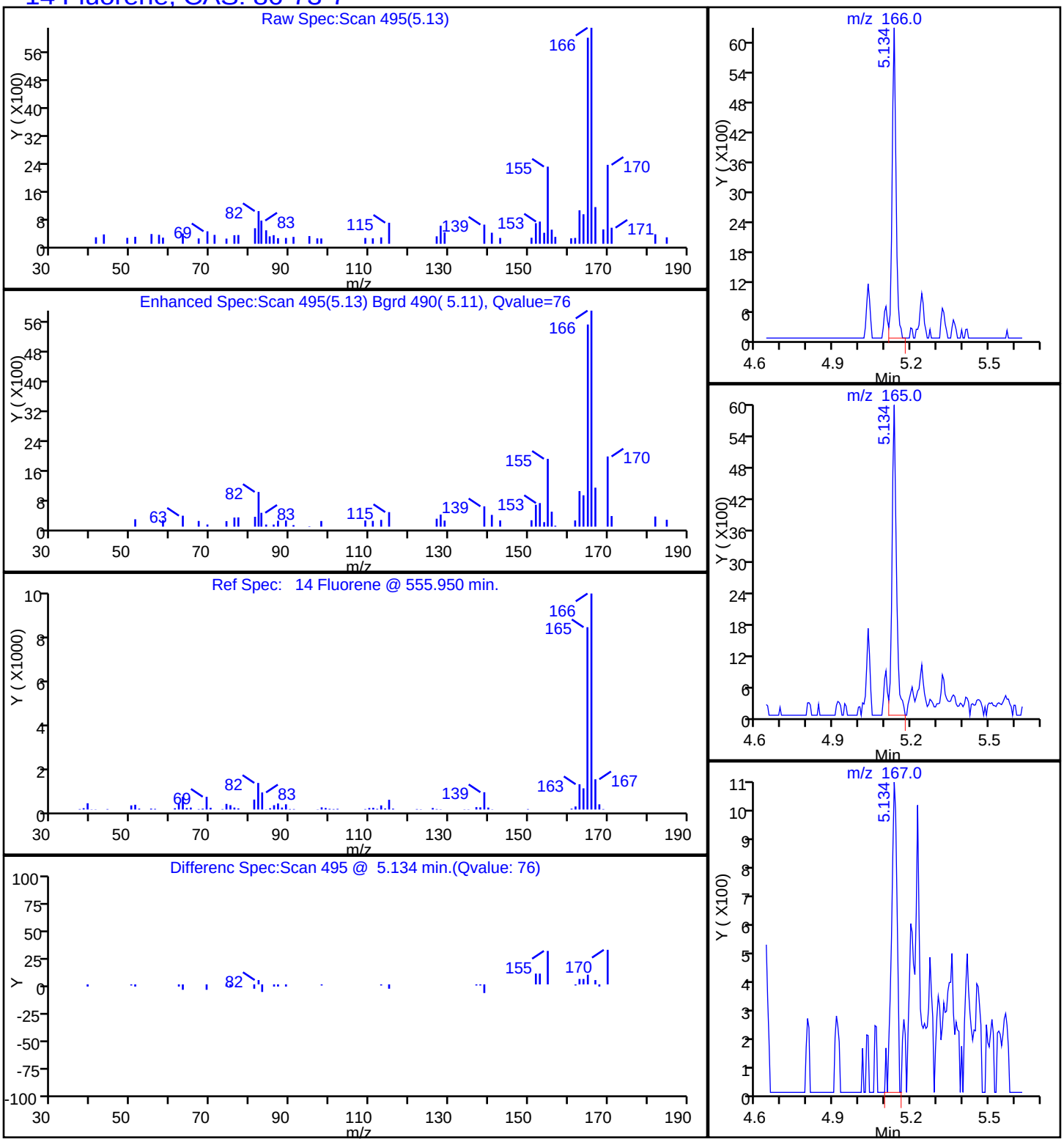
| Client ID: | CV0971WW-CSD6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 26 | Worklist Smp#: | 28 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 20.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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



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TestAmerica Savannah

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| Injection Vol: | 2.0 ul | Dil. Factor: | 20.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
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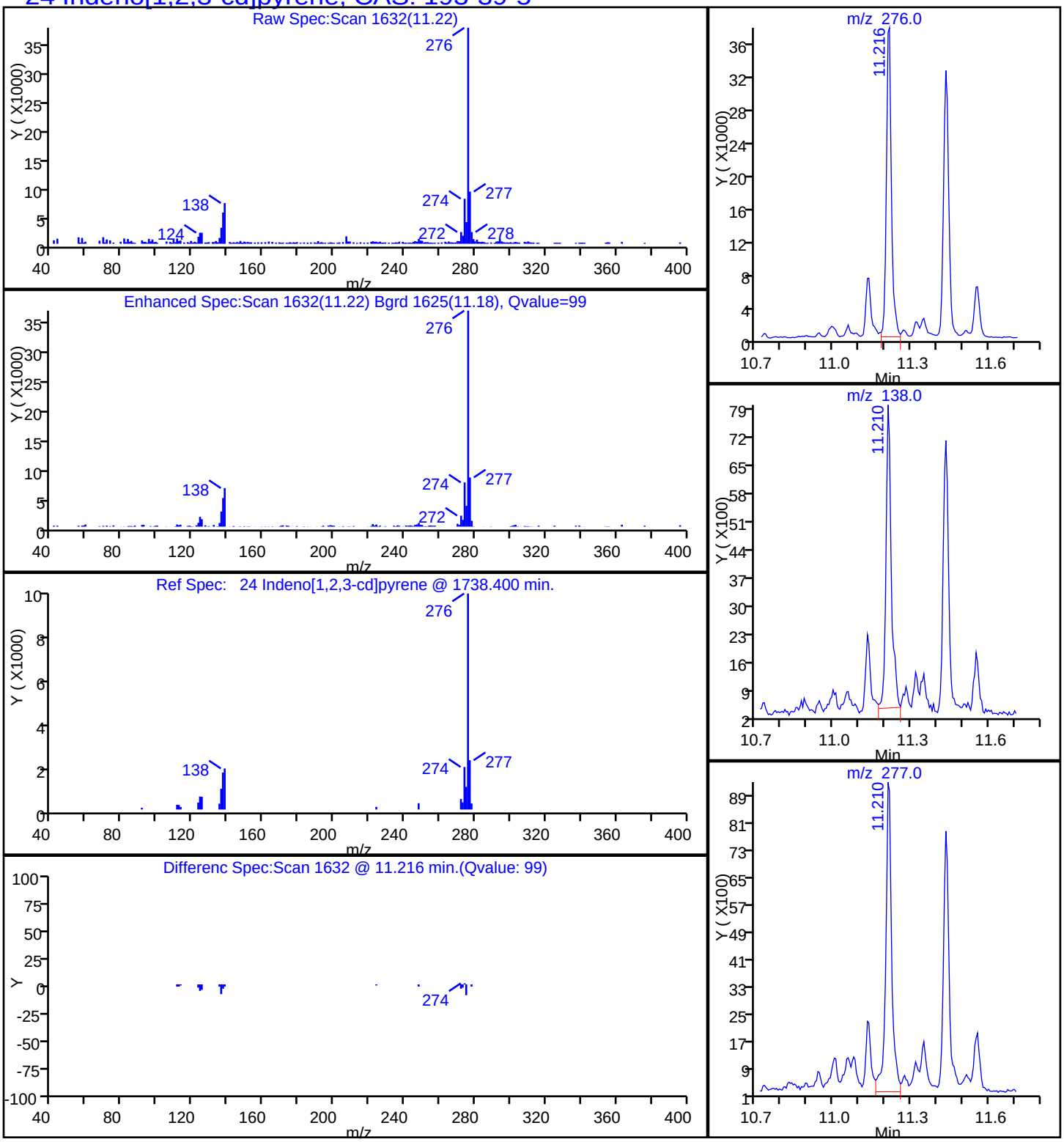
## 24 Indeno[1,2,3-cd]pyrene, CAS: 193-39-5



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TestAmerica Savannah

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| Operator ID: | RM | ALS Bottle#: | 26 | Worklist Smp#: | 28 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 20.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
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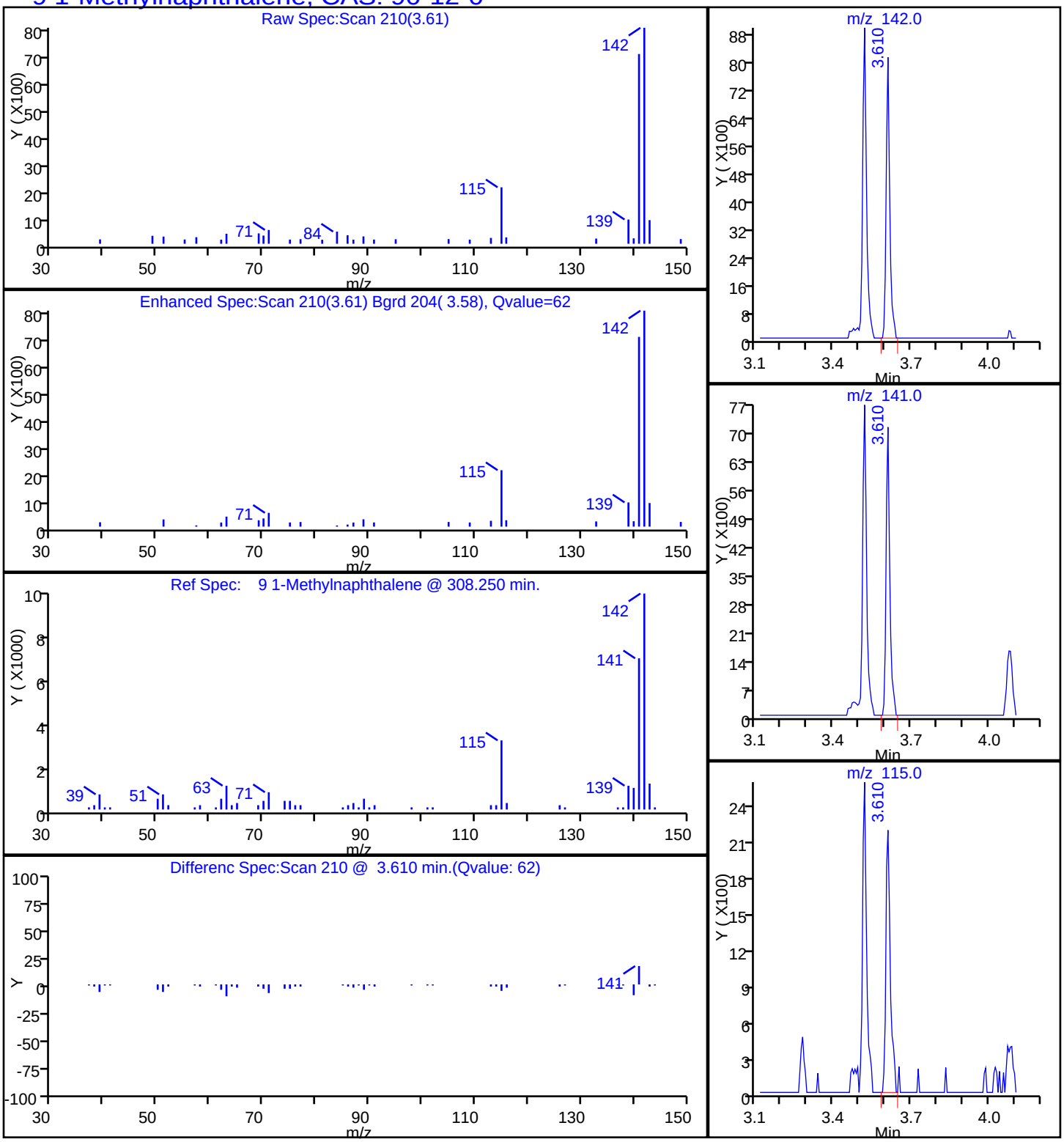
## 9 1-Methylnaphthalene, CAS: 90-12-0



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TestAmerica Savannah

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| Client ID: | CV0971WW-CSD6 | | | | |
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| Injection Vol: | 2.0 ul | Dil. Factor: | 20.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
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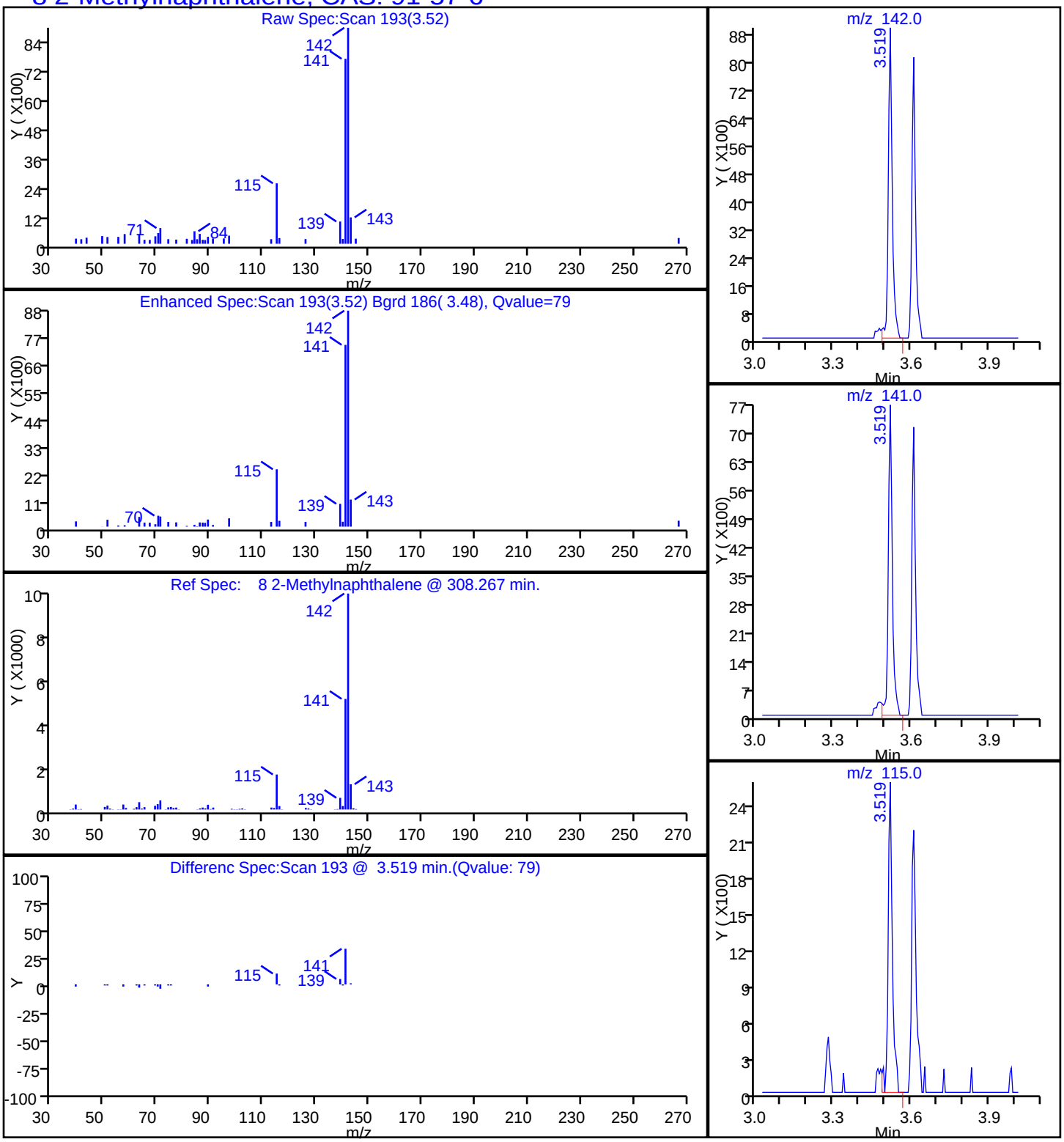
## 8 2-Methylnaphthalene, CAS: 91-57-6



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TestAmerica Savannah

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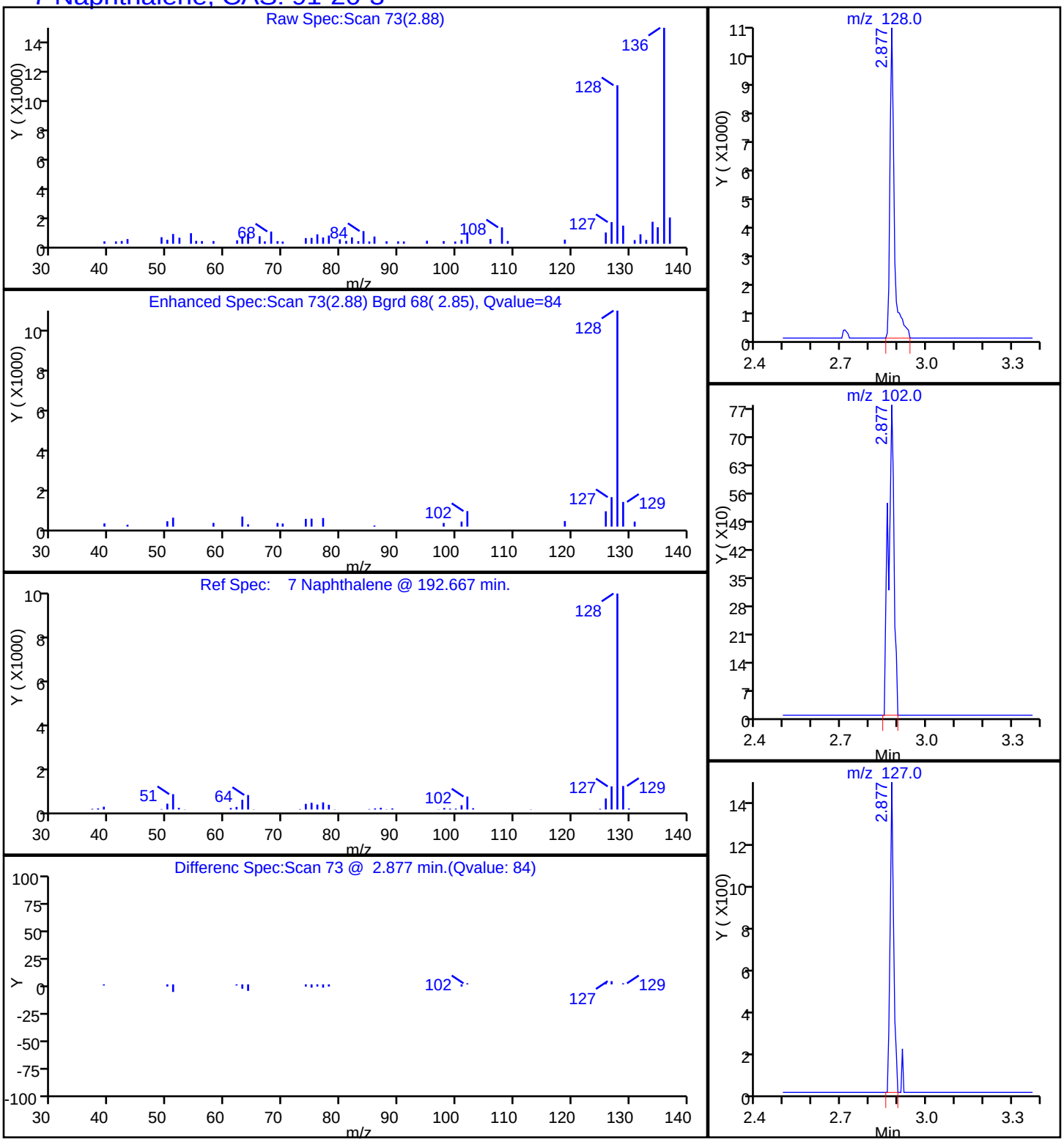
| Operator ID: | RM | ALS Bottle#: | 26 | Worklist Smp#: | 28 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 20.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 7 Naphthalene, CAS: 91-20-3

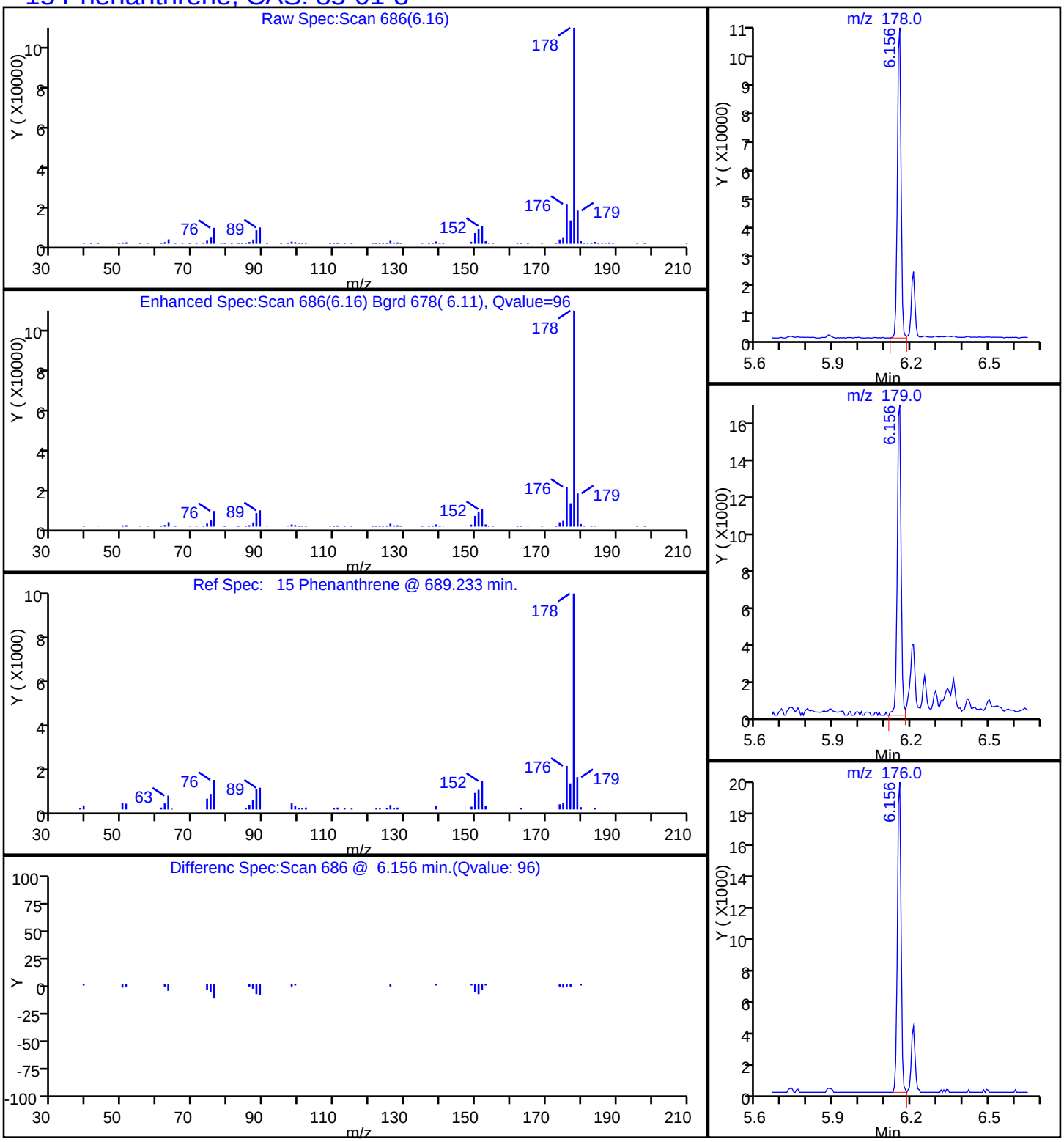


Report Date: 16-Oct-2014 08:47:31 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1528.D | | | | |
| Injection Date: | 15-Oct-2014 22:44:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-19-A | Lab Sample ID: | 680-106200-19 | | |
| Client ID: | CV0971WW-CSD6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 26 | Worklist Smp#: | 28 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 20.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 15 Phenanthrene, CAS: 85-01-8

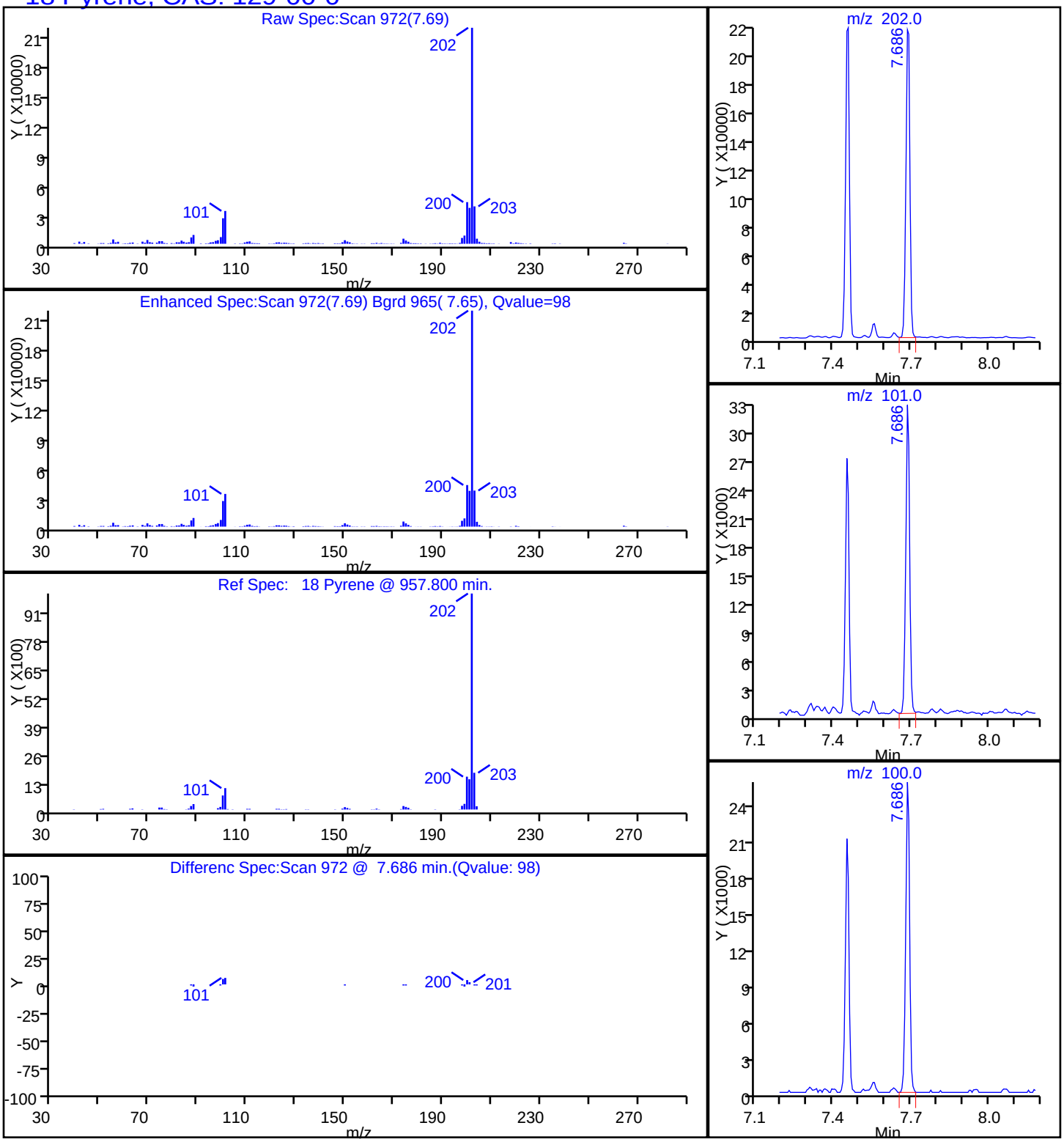


Report Date: 16-Oct-2014 08:47:31 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1528.D | | | | |
| Injection Date: | 15-Oct-2014 22:44:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-19-A | Lab Sample ID: | 680-106200-19 | | |
| Client ID: | CV0971WW-CSD6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 26 | Worklist Smp#: | 28 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 20.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 18 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

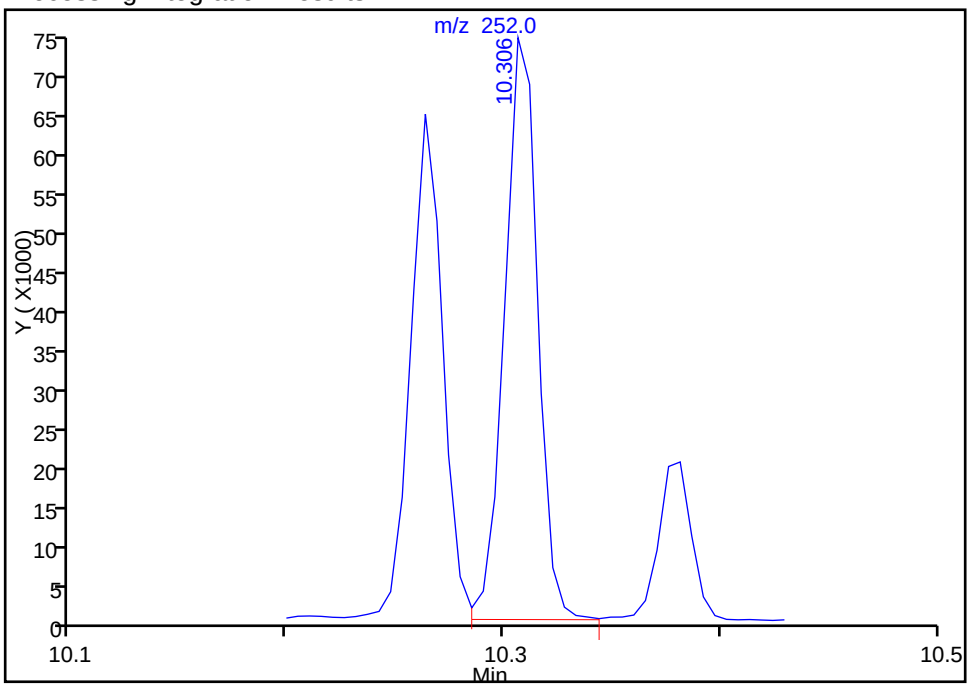
TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1528.D | | | | |
| Injection Date: | 15-Oct-2014 22:44:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-19-A | Lab Sample ID: | 680-106200-19 | | |
| Client ID: | CV0971WW-CSD6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 26 | Worklist Smp#: | 28 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 20.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

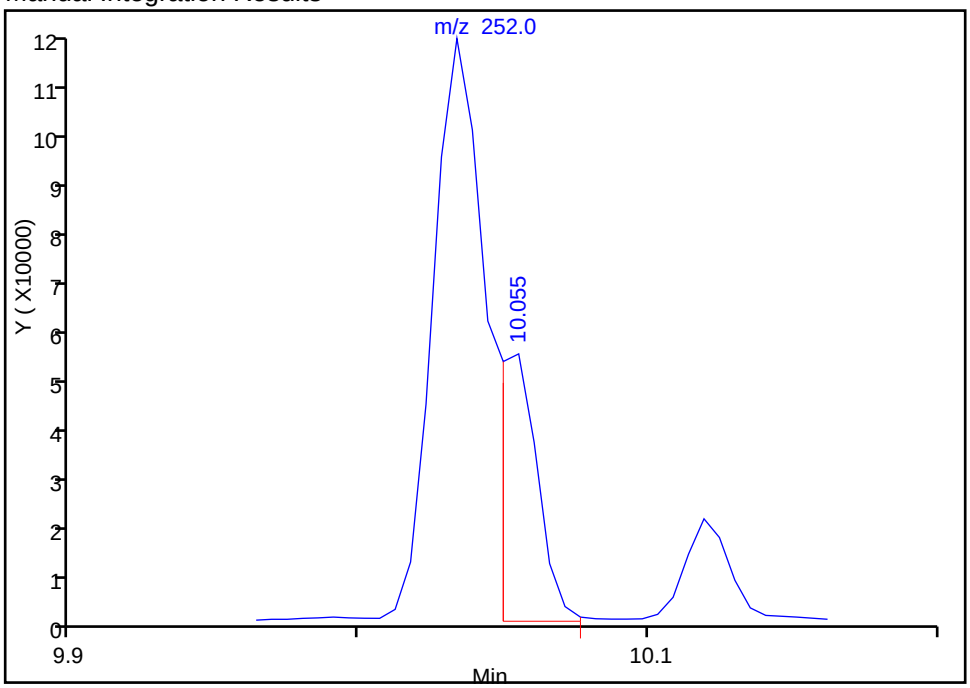
Processing Integration Results

RT: 10.31
Response: 78446
Amount: 1.456156




Manual Integration Results

RT: 10.06
Response: 48940
Amount: 0.906323




Reviewer: webbk, 16-Oct-2014 08:41:09
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0971WW-CS12 | Lab Sample ID: 680-106200-20

Matrix: Solid | Lab File ID: 2YJ1529.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 13:50

Extract. Method: 3546 | Date Extracted: 10/14/2014 10:14

Sample wt/vol: 30.03(g) | Date Analyzed: 10/15/2014 23:06

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353689 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 73 | U | 73 | 36 |
| 208-96-8 | Acenaphthylene | 73 | U | 73 | 36 |
| 120-12-7 | Anthracene | 73 | U | 73 | 36 |
| 56-55-3 | Benzo[a]anthracene | 51 | J | 73 | 36 |
| 50-32-8 | Benzo[a]pyrene | 55 | J | 73 | 13 |
| 205-99-2 | Benzo[b]fluoranthene | 78 | | 73 | 36 |
| 191-24-2 | Benzo[g,h,i]perylene | 44 | J | 73 | 36 |
| 207-08-9 | Benzo[k]fluoranthene | 36 | J | 73 | 22 |
| 218-01-9 | Chrysene | 67 | J | 73 | 36 |
| 53-70-3 | Dibenz(a,h)anthracene | 73 | U | 73 | 36 |
| 206-44-0 | Fluoranthene | 80 | | 73 | 36 |
| 86-73-7 | Fluorene | 73 | U | 73 | 36 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 73 | U | 73 | 36 |
| 90-12-0 | 1-Methylnaphthalene | 73 | U | 73 | 34 |
| 91-57-6 | 2-Methylnaphthalene | 73 | U | 73 | 36 |
| 91-20-3 | Naphthalene | 73 | U | 73 | 36 |
| 85-01-8 | Phenanthrene | 63 | J | 73 | 26 |
| 129-00-0 | Pyrene | 100 | | 73 | 36 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 0 | D | 36-131 |

TestAmerica Savannah
Target Compound Quantitation Report

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1529.D | | | | |
| Lims ID: | 680-106200-A-20-A | Lab Sample ID: | 680-106200-20 | | |
| Client ID: | CV0971WW-CS12 | | | | |
| Sample Type: | Client | | | | |
| Inject. Date: | 15-Oct-2014 23:06:30 | ALS Bottle#: | 27 | Worklist Smp#: | 29 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Sample Info: | 106200-A-20-A 1:10 | | | | |
| Misc. Info.: | 680-0013789-029 | | | | |
| Operator ID: | RM | Instrument ID: | CMSY | | |

| | | | |
|---|---|---|---|
| Method: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\8270D_LLPAH_MSY.m | | |
| Limit Group: | 8270D_LL_PAH | | |
| Last Update: | 16-Oct-2014 08:46:57 | Calib Date: | 07-Oct-2014 15:41:30 |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D | | |

| | | |
|---|---|---|
| Column 1 : | Restek RXi-5Sil MS ( 0.25 mm) | Det: MS SCAN |
| Process Host: | XAWRK010 | |

First Level Reviewer: webbk Date: 16-Oct-2014 08:43:36

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.861 | 2.856 | 0.005 | 98 | 135509 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.557 | 4.546 | 0.011 | 91 | 78874 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.129 | 6.124 | 0.005 | 98 | 124592 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 9.001 | 8.996 | 0.005 | 99 | 89403 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.355 | 10.344 | 0.011 | 99 | 67008 | 2.00 | |
| 15 Phenanthrene | 178 | 6.156 | 6.151 | 0.005 | 96 | 12871 | 0.1726 | |
| 16 Anthracene | 178 | 6.210 | 6.204 | 0.006 | 41 | 1715 | 0.0231 | 7 |
| 17 Fluoranthene | 202 | 7.450 | 7.445 | 0.005 | 98 | 17347 | 0.2195 | |
| 18 Pyrene | 202 | 7.686 | 7.680 | 0.006 | 98 | 16140 | 0.2757 | |
| 19 Benzo[a]anthracene | 228 | 8.996 | 8.991 | 0.005 | 98 | 7317 | 0.1399 | |
| 20 Chrysene | 228 | 9.028 | 9.023 | 0.005 | 98 | 9172 | 0.1837 | |
| 21 Benzo[b]fluoranthene | 252 | 10.028 | 10.023 | 0.005 | 99 | 9451 | 0.2144 | |
| 22 Benzo[k]fluoranthene | 252 | 10.050 | 10.050 | 0.000 | 98 | 4196 | 0.0980 | M |
| 23 Benzo[a]pyrene | 252 | 10.307 | 10.296 | 0.011 | 97 | 5518 | 0.1522 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.210 | 11.200 | 0.010 | 98 | 4257 | 0.0867 | |
| 26 Benzo[g,h,i]perylene | 276 | 11.435 | 11.424 | 0.011 | 98 | 3985 | 0.1207 | |

## QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

## Reagents:

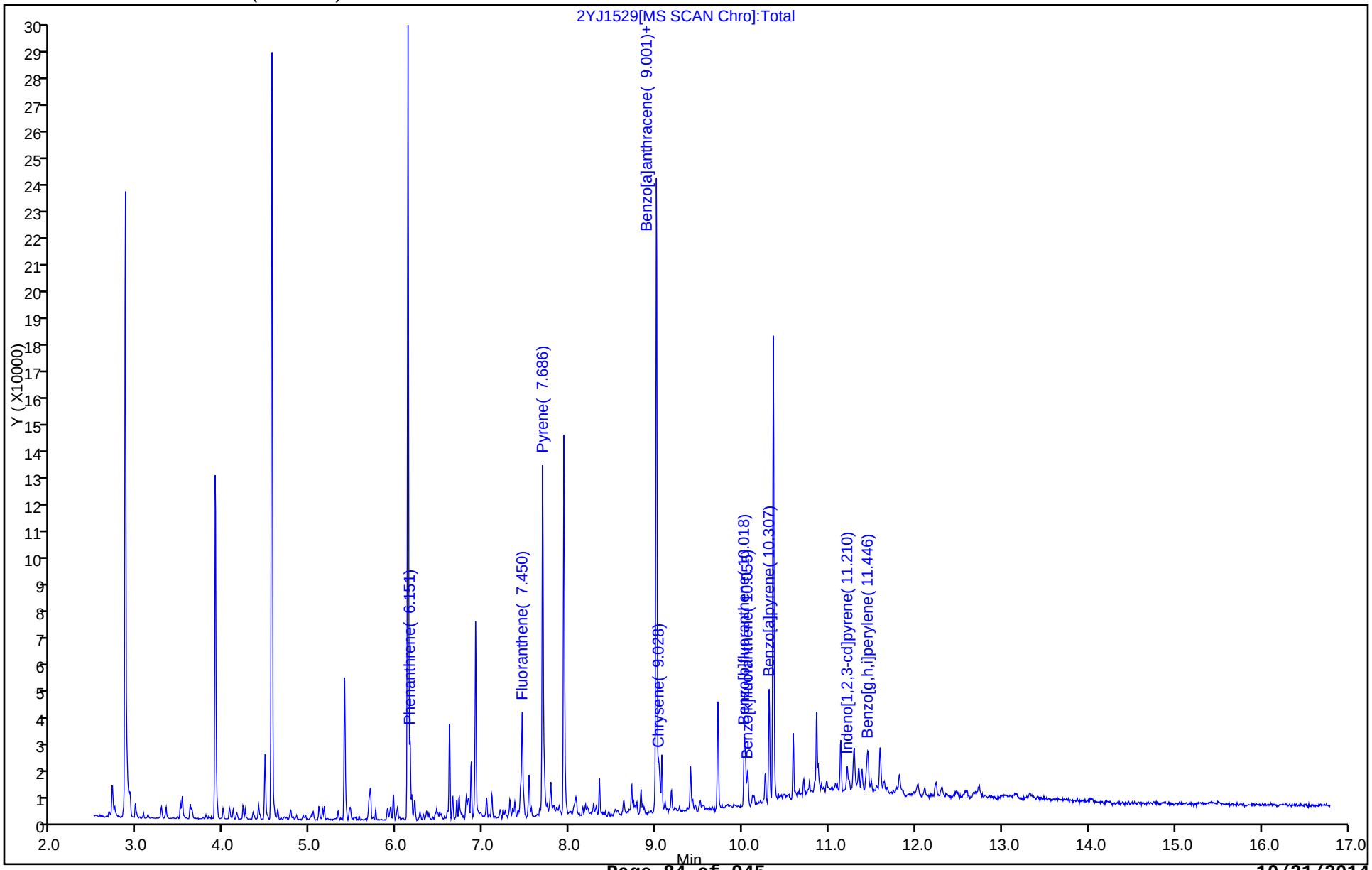
SM-LLISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 16-Oct-2014 08:47:31 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1529.D | | | | |
| Injection Date: | 15-Oct-2014 23:06:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | 680-106200-A-20-A | Lab Sample ID: | 680-106200-20 | Worklist Smp#: | 29 |
| Client ID: | CV0971WW-CS12 | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | ALS Bottle#: | 27 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)

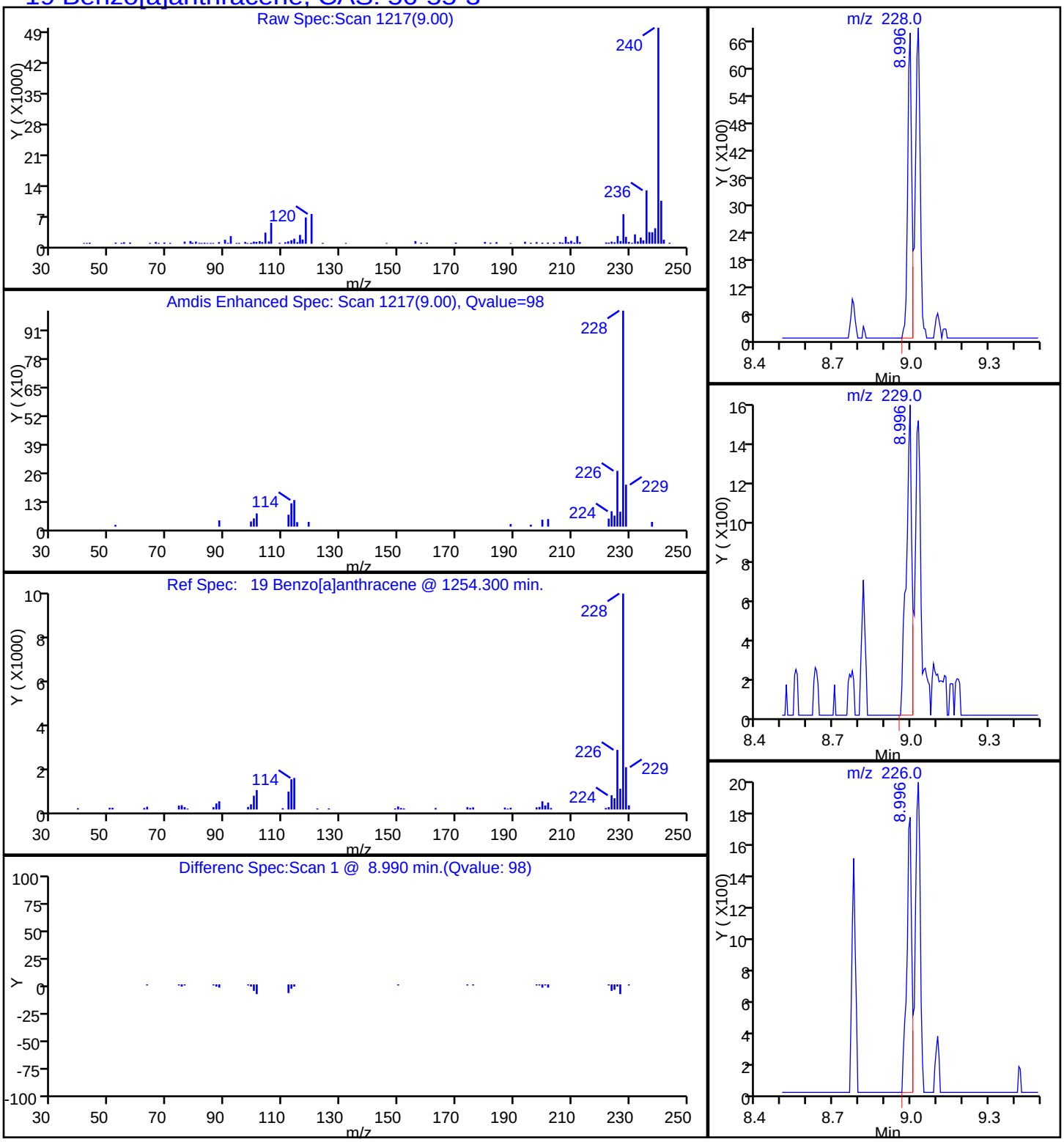


Report Date: 16-Oct-2014 08:47:32 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1529.D | | | | |
| Injection Date: | 15-Oct-2014 23:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-20-A | Lab Sample ID: | 680-106200-20 | | |
| Client ID: | CV0971WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 27 | Worklist Smp#: | 29 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

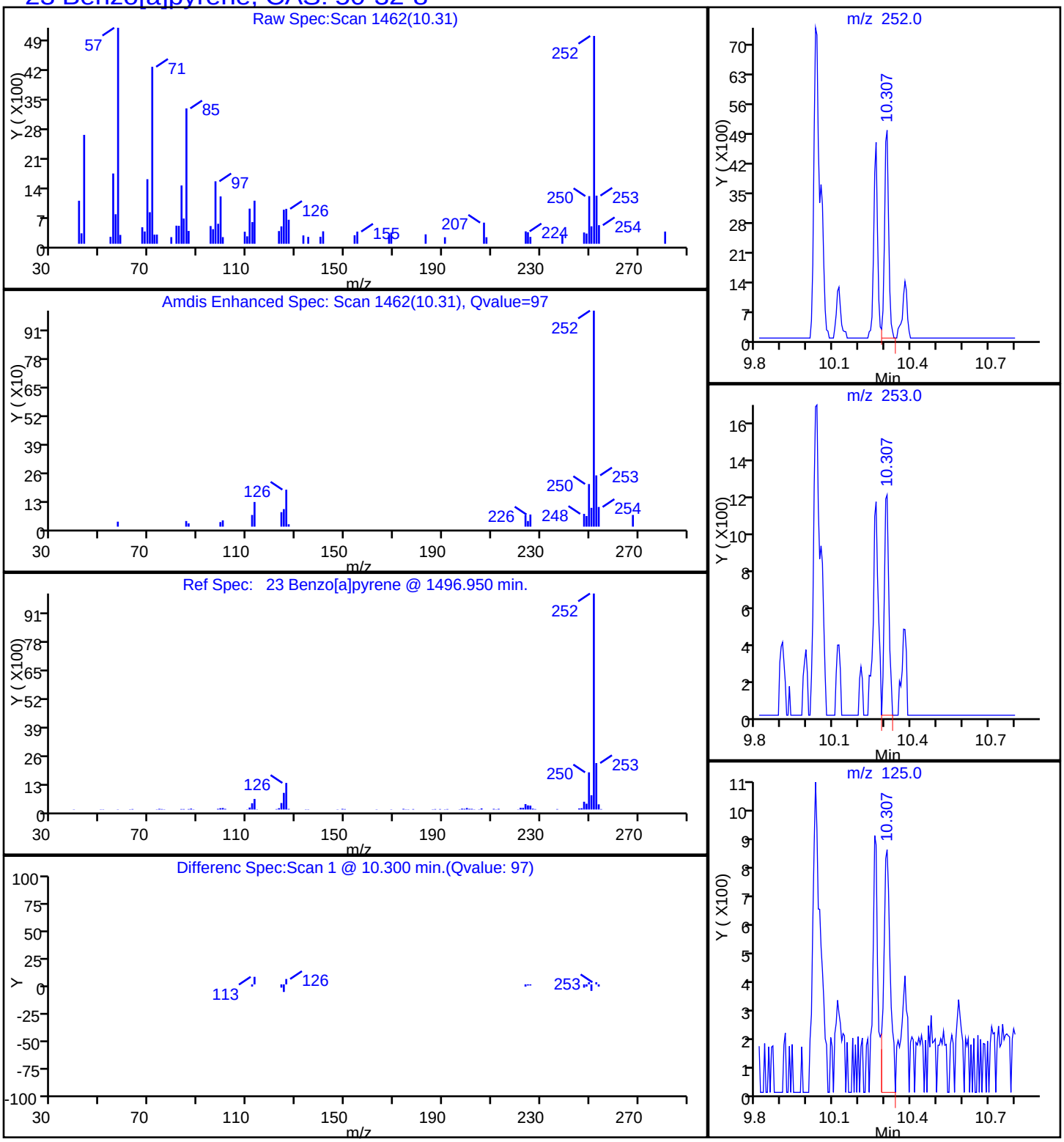


Report Date: 16-Oct-2014 08:47:32 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1529.D | | | | |
| Injection Date: | 15-Oct-2014 23:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-20-A | Lab Sample ID: | 680-106200-20 | | |
| Client ID: | CV0971WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 27 | Worklist Smp#: | 29 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

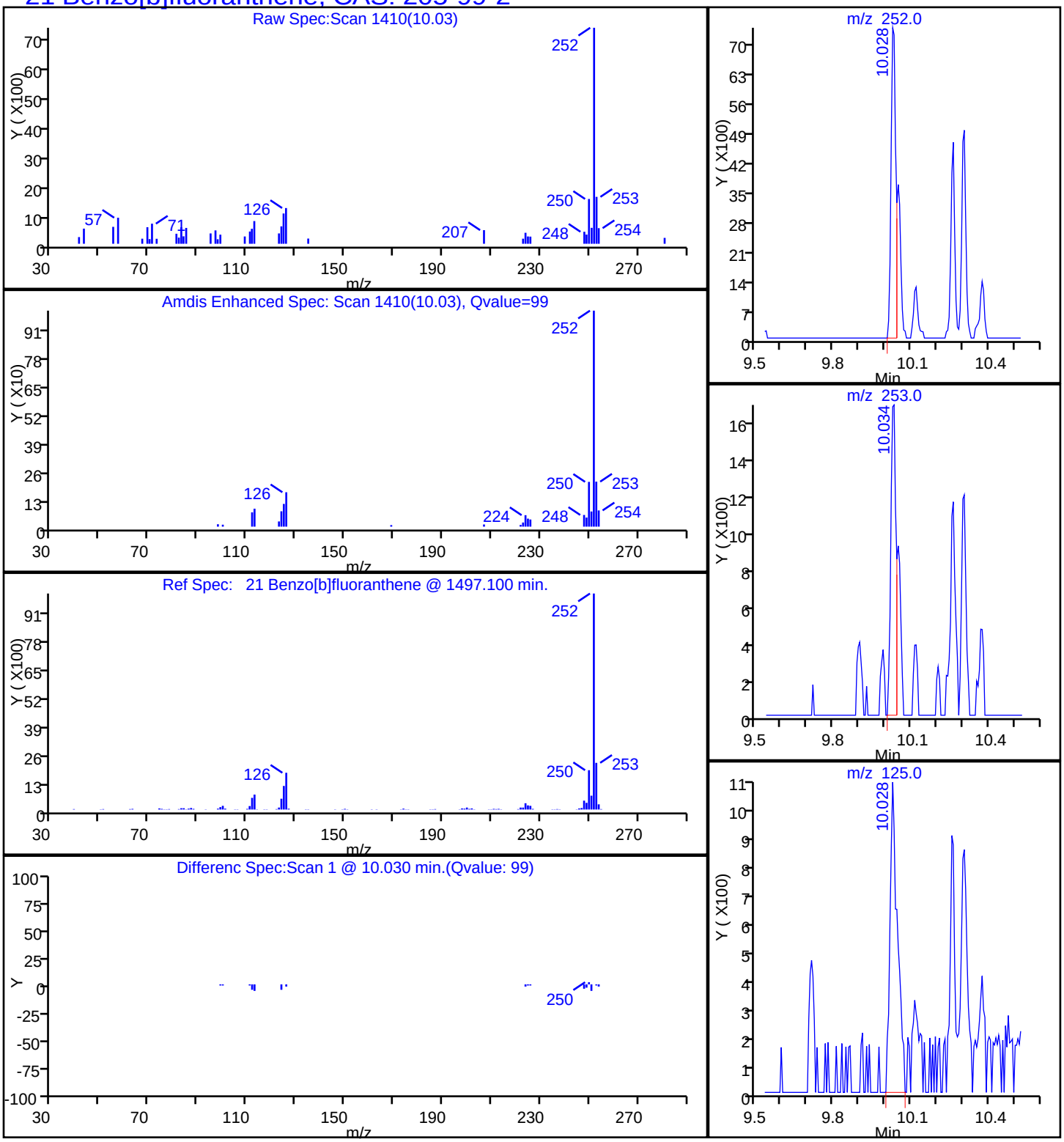


Report Date: 16-Oct-2014 08:47:32 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1529.D | | | | |
| Injection Date: | 15-Oct-2014 23:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-20-A | Lab Sample ID: | 680-106200-20 | | |
| Client ID: | CV0971WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 27 | Worklist Smp#: | 29 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

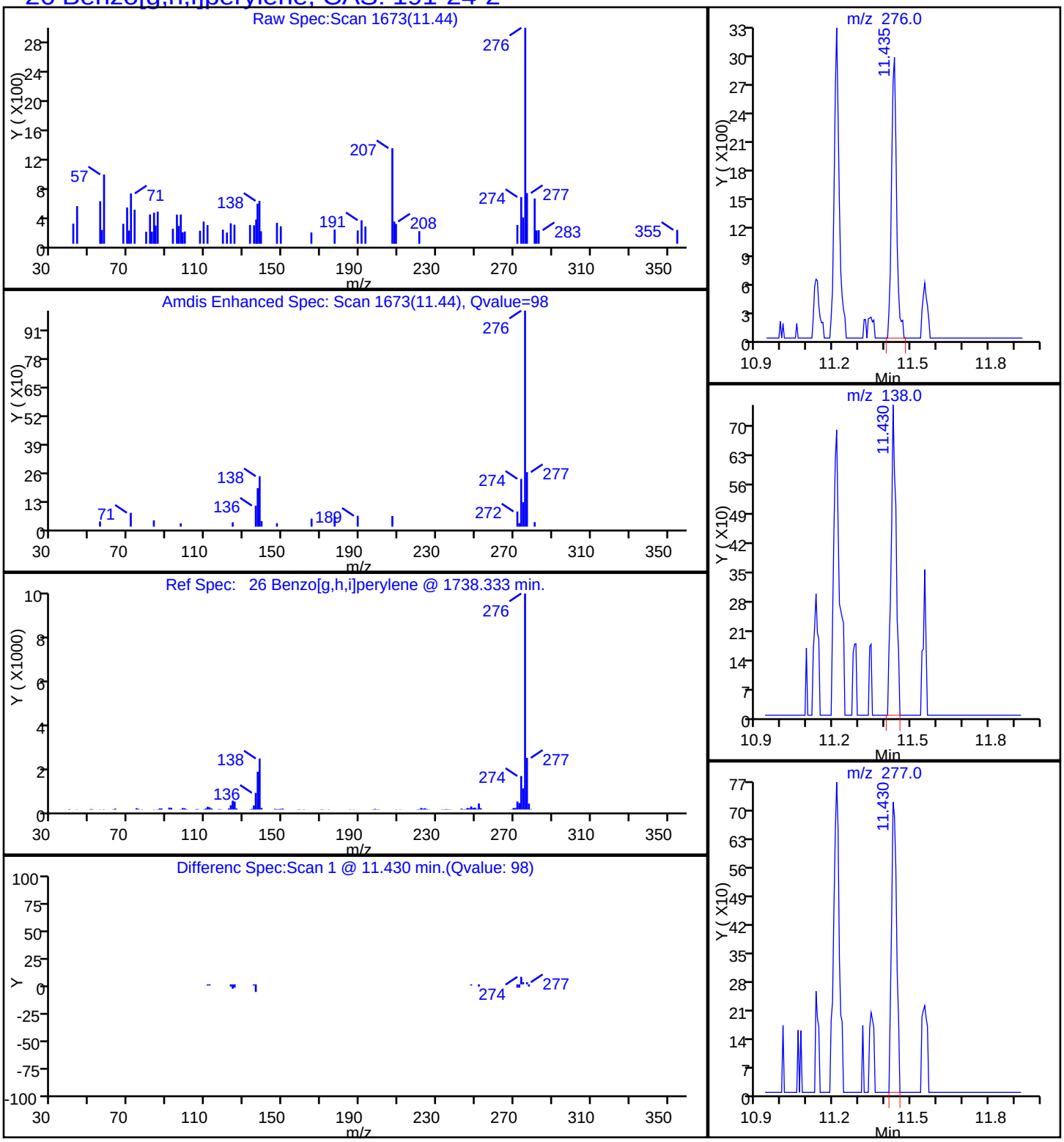


Report Date: 16-Oct-2014 08:47:32 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1529.D | | | | |
| Injection Date: | 15-Oct-2014 23:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-20-A | Lab Sample ID: | 680-106200-20 | | |
| Client ID: | CV0971WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 27 | Worklist Smp#: | 29 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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



Report Date: 16-Oct-2014 08:47:32 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
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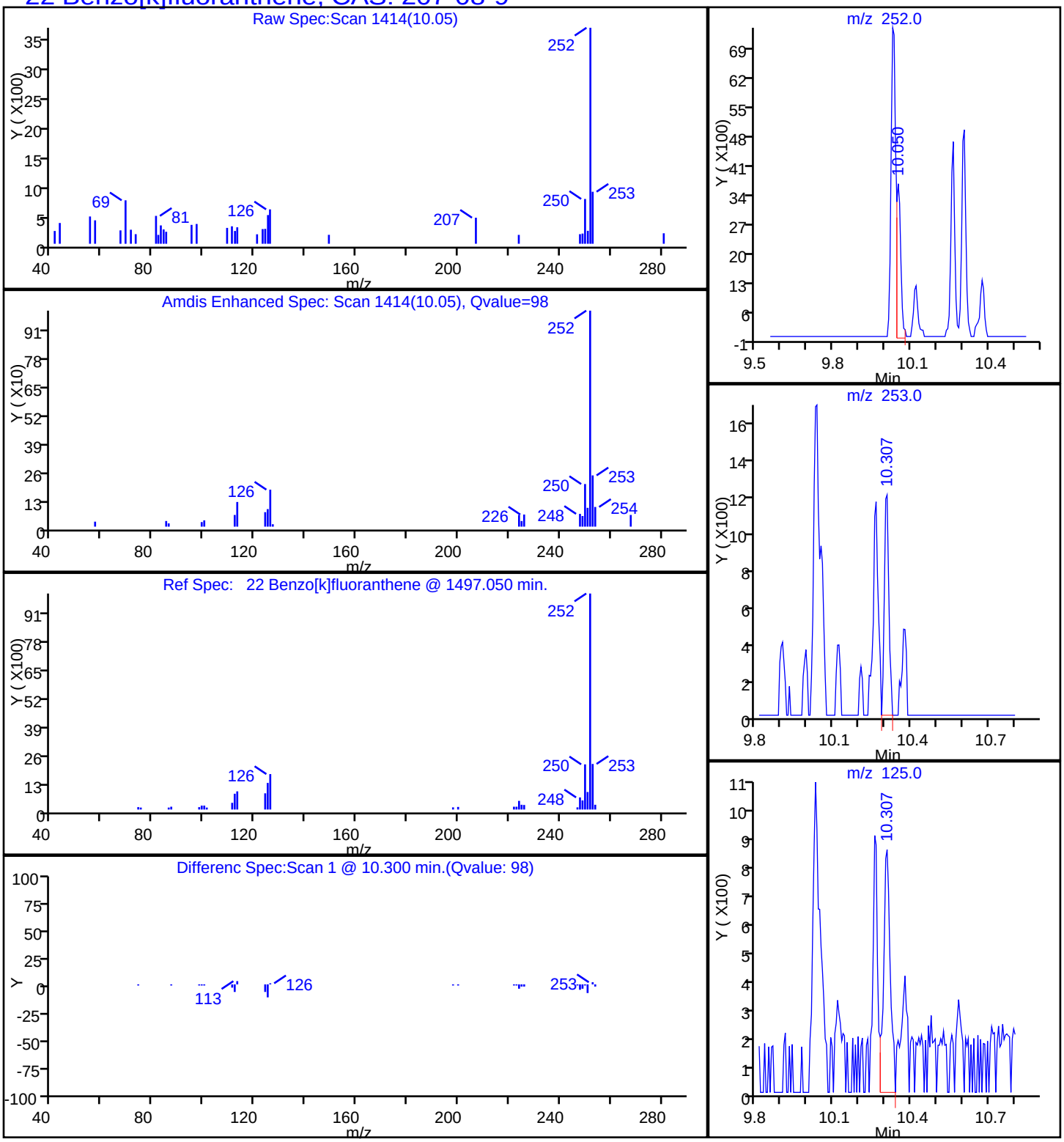
| Injection Date: | 15-Oct-2014 23:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-20-A | Lab Sample ID: | 680-106200-20 | | |
| Client ID: | CV0971WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 27 | Worklist Smp#: | 29 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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



Report Date: 16-Oct-2014 08:47:32 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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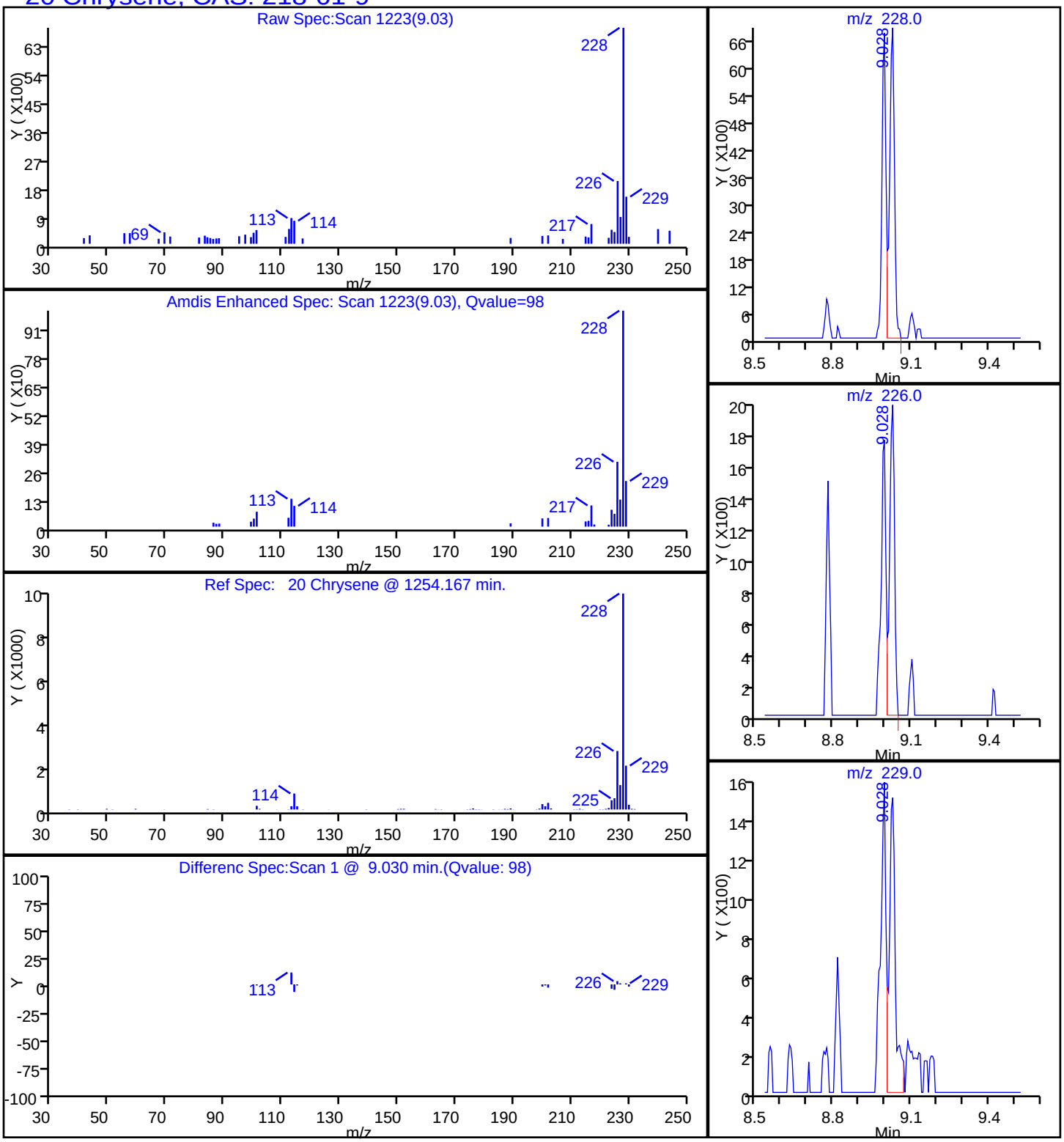
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1529.D | | | | |
| Injection Date: | 15-Oct-2014 23:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-20-A | Lab Sample ID: | 680-106200-20 | | |
| Client ID: | CV0971WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 27 | Worklist Smp#: | 29 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 20 Chrysene, CAS: 218-01-9

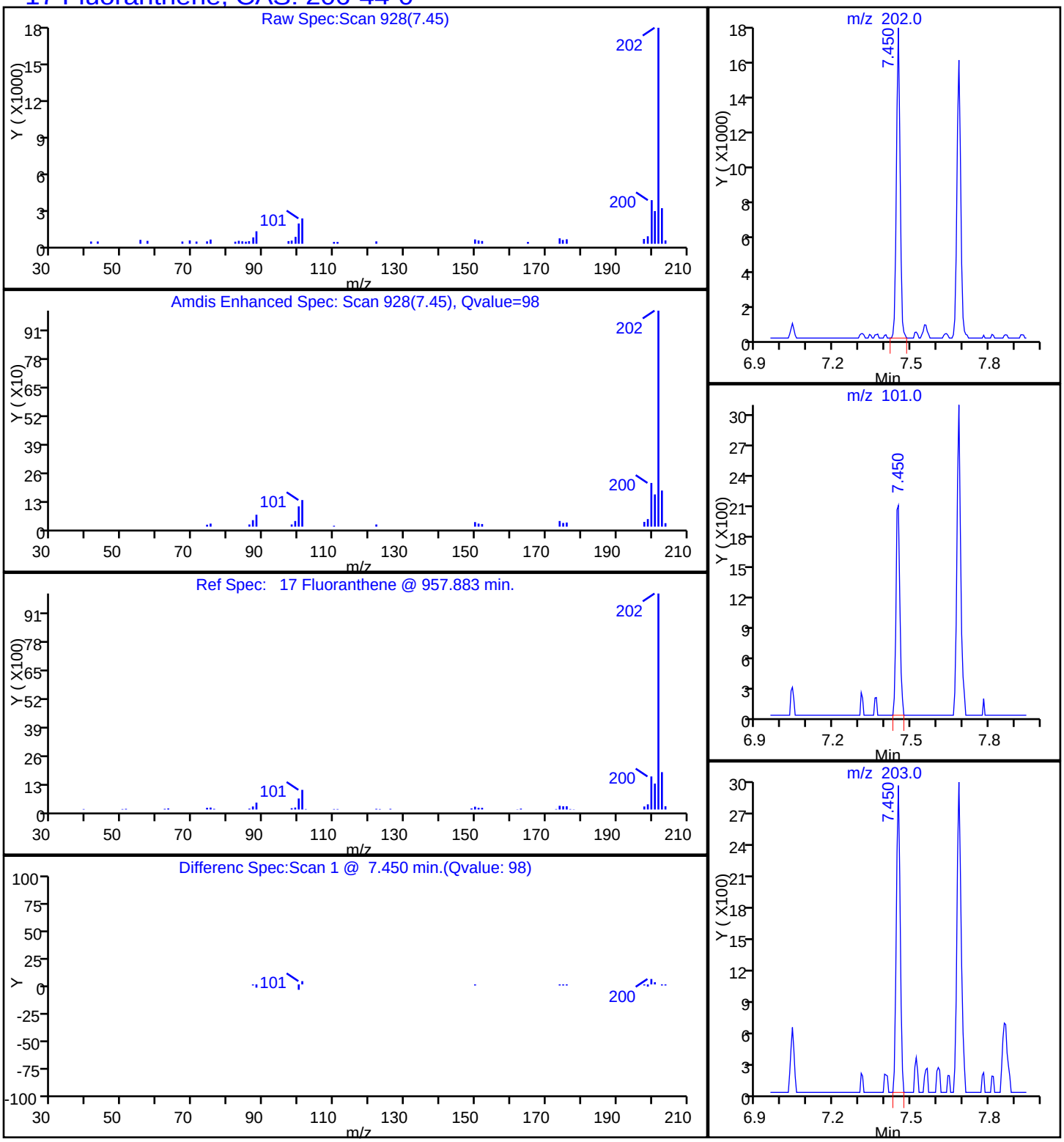


Report Date: 16-Oct-2014 08:47:32 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1529.D | | | | |
| Injection Date: | 15-Oct-2014 23:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-20-A | Lab Sample ID: | 680-106200-20 | | |
| Client ID: | CV0971WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 27 | Worklist Smp#: | 29 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

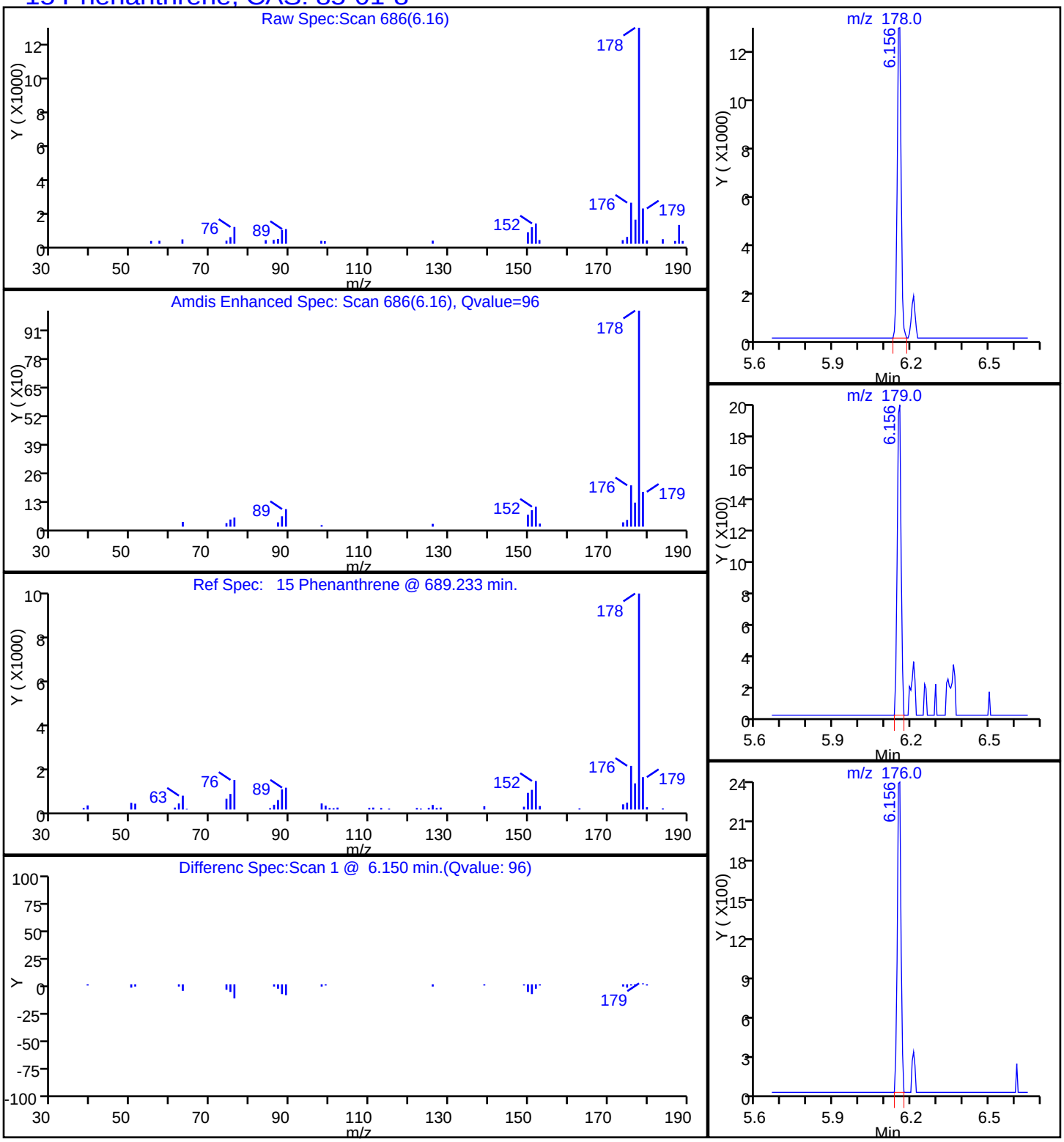


Report Date: 16-Oct-2014 08:47:32 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1529.D | | | | |
| Injection Date: | 15-Oct-2014 23:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-20-A | Lab Sample ID: | 680-106200-20 | | |
| Client ID: | CV0971WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 27 | Worklist Smp#: | 29 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 15 Phenanthrene, CAS: 85-01-8

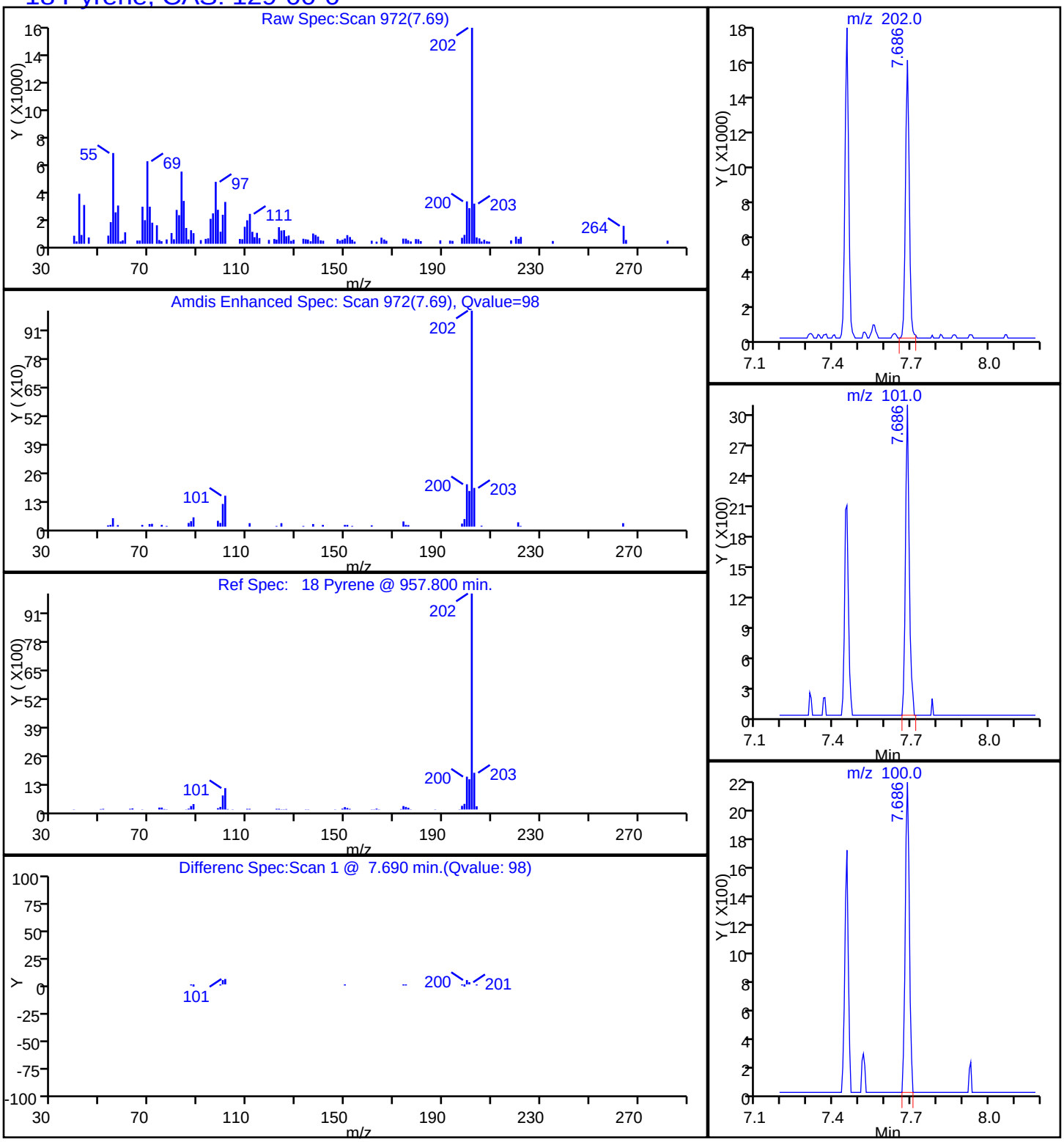


Report Date: 16-Oct-2014 08:47:32 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1529.D | | | | |
| Injection Date: | 15-Oct-2014 23:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-20-A | Lab Sample ID: | 680-106200-20 | | |
| Client ID: | CV0971WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 27 | Worklist Smp#: | 29 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 18 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

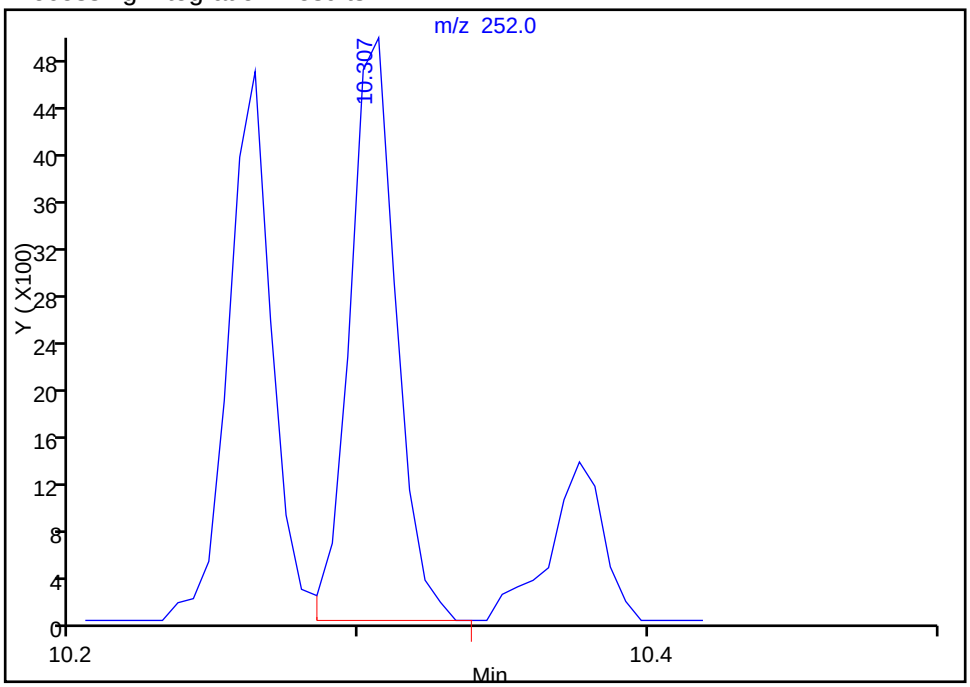
TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1529.D | | | | |
| Injection Date: | 15-Oct-2014 23:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-20-A | Lab Sample ID: | 680-106200-20 | | |
| Client ID: | CV0971WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 27 | Worklist Smp#: | 29 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

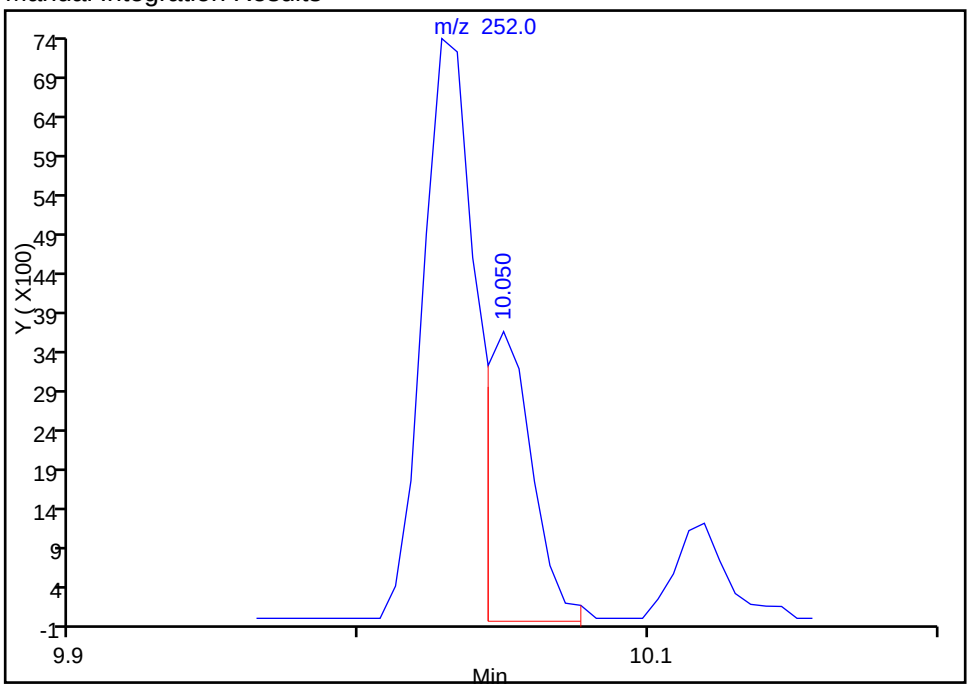
Processing Integration Results

RT: 10.31
Response: 5518
Amount: 0.128828




Manual Integration Results

RT: 10.05
Response: 4196
Amount: 0.097950




Reviewer: webbk, 16-Oct-2014 08:43:36
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0971WW-CS18 | Lab Sample ID: 680-106200-21

Matrix: Solid | Lab File ID: 2YJ1530.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 14:00

Extract. Method: 3546 | Date Extracted: 10/14/2014 10:14

Sample wt/vol: 30.08(g) | Date Analyzed: 10/15/2014 23:28

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353689 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 73 | U | 73 | 36 |
| 208-96-8 | Acenaphthylene | 73 | U | 73 | 36 |
| 120-12-7 | Anthracene | 73 | U | 73 | 36 |
| 56-55-3 | Benzo[a]anthracene | 170 | | 73 | 36 |
| 50-32-8 | Benzo[a]pyrene | 180 | | 73 | 13 |
| 205-99-2 | Benzo[b]fluoranthene | 260 | | 73 | 36 |
| 191-24-2 | Benzo[g,h,i]perylene | 130 | | 73 | 36 |
| 207-08-9 | Benzo[k]fluoranthene | 86 | | 73 | 22 |
| 218-01-9 | Chrysene | 200 | | 73 | 36 |
| 53-70-3 | Dibenz(a,h)anthracene | 68 | J | 73 | 36 |
| 206-44-0 | Fluoranthene | 320 | | 73 | 36 |
| 86-73-7 | Fluorene | 73 | U | 73 | 36 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 92 | | 73 | 36 |
| 90-12-0 | 1-Methylnaphthalene | 73 | U | 73 | 34 |
| 91-57-6 | 2-Methylnaphthalene | 73 | U | 73 | 36 |
| 91-20-3 | Naphthalene | 73 | U | 73 | 36 |
| 85-01-8 | Phenanthrene | 170 | | 73 | 26 |
| 129-00-0 | Pyrene | 340 | | 73 | 36 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 0 | D | 36-131 |

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1530.D
Lims ID: 680-106200-A-21-A Lab Sample ID: 680-106200-21
Client ID: CV0971WW-CS18
Sample Type: Client
Inject. Date: 15-Oct-2014 23:28:30 ALS Bottle#: 28 Worklist Smp#: 30
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Sample Info: 106200-A-21-A 1:10
Misc. Info.: 680-0013789-030
Operator ID: RM Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141015-13789.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 16-Oct-2014 08:46:57 Calib Date: 07-Oct-2014 15:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: webbk Date: 16-Oct-2014 08:44:46

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.861 | 2.856 | 0.005 | 98 | 152712 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.557 | 4.546 | 0.011 | 92 | 90026 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.129 | 6.124 | 0.005 | 98 | 151602 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 9.007 | 8.996 | 0.011 | 99 | 115201 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.355 | 10.344 | 0.011 | 98 | 84199 | 2.00 | |
| 8 2-Methylnaphthalene | 142 | 3.519 | 3.514 | 0.005 | 43 | 2651 | 0.0480 | 7 |
| 9 1-Methylnaphthalene | 142 | 3.610 | 3.605 | 0.005 | 7 | 1994 | 0.0389 | 7 |
| 15 Phenanthrene | 178 | 6.156 | 6.151 | 0.005 | 96 | 42992 | 0.4739 | |
| 16 Anthracene | 178 | 6.209 | 6.204 | 0.005 | 98 | 8385 | 0.0929 | |
| 17 Fluoranthene | 202 | 7.450 | 7.445 | 0.005 | 98 | 85135 | 0.8854 | |
| 18 Pyrene | 202 | 7.686 | 7.680 | 0.006 | 98 | 71644 | 0.9505 | |
| 19 Benzo[a]anthracene | 228 | 8.996 | 8.991 | 0.005 | 97 | 30944 | 0.4593 | |
| 20 Chrysene | 228 | 9.028 | 9.023 | 0.005 | 100 | 35233 | 0.5489 | |
| 21 Benzo[b]fluoranthene | 252 | 10.034 | 10.023 | 0.011 | 98 | 40029 | 0.7228 | |
| 22 Benzo[k]fluoranthene | 252 | 10.055 | 10.050 | 0.005 | 99 | 12748 | 0.2370 | M |
| 23 Benzo[a]pyrene | 252 | 10.306 | 10.296 | 0.010 | 97 | 22580 | 0.4957 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.210 | 11.200 | 0.010 | 99 | 16043 | 0.2537 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.237 | 11.227 | 0.010 | 93 | 7484 | 0.1880 | |
| 26 Benzo[g,h,i]perylene | 276 | 11.435 | 11.424 | 0.011 | 98 | 14925 | 0.3595 | |

## QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

## Reagents:

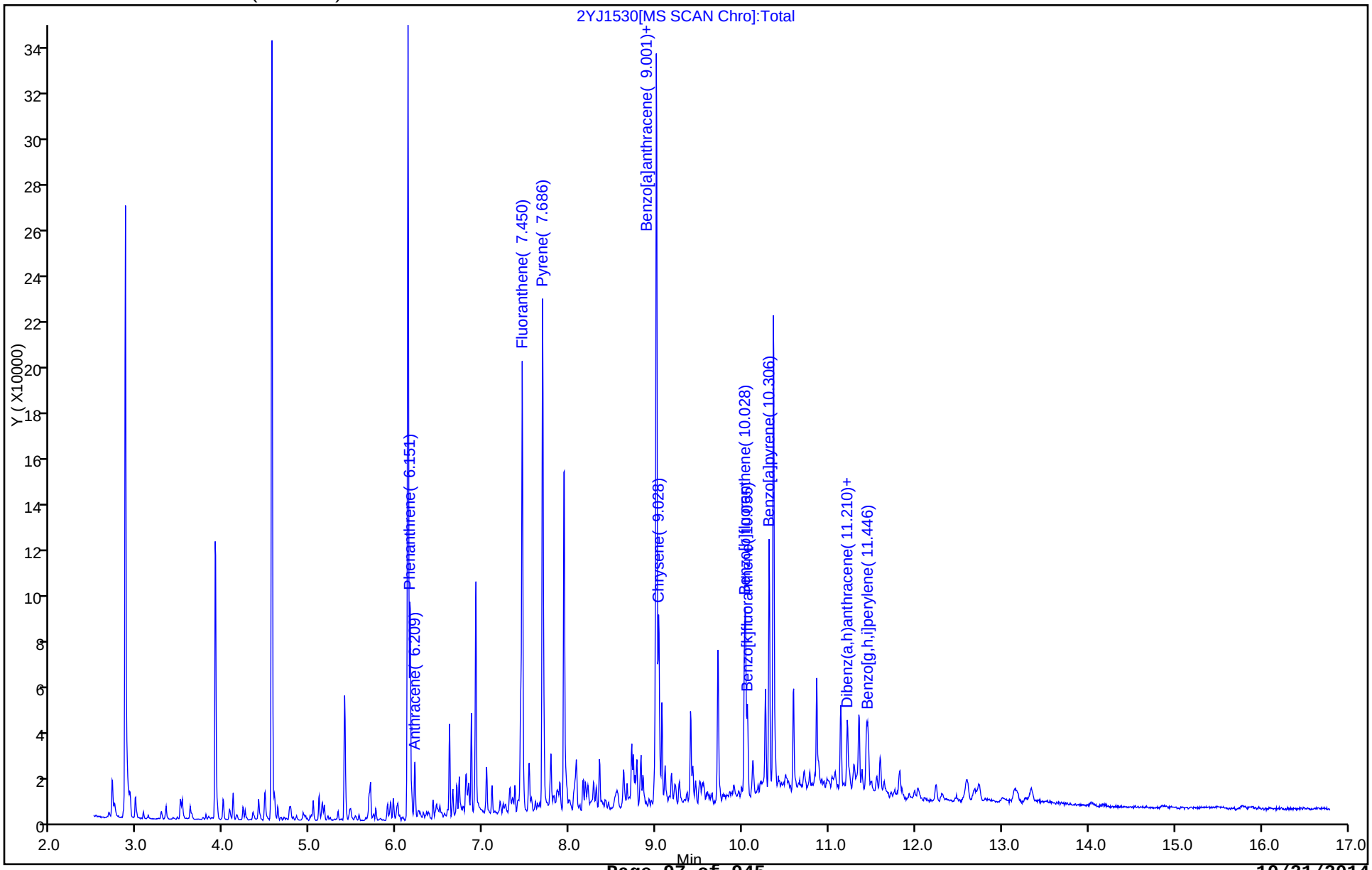
SM-LLISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 16-Oct-2014 08:47:32 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1530.D | | | | |
| Injection Date: | 15-Oct-2014 23:28:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | 680-106200-A-21-A | Lab Sample ID: | 680-106200-21 | Worklist Smp#: | 30 |
| Client ID: | CV0971WW-CS18 | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | ALS Bottle#: | 28 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)

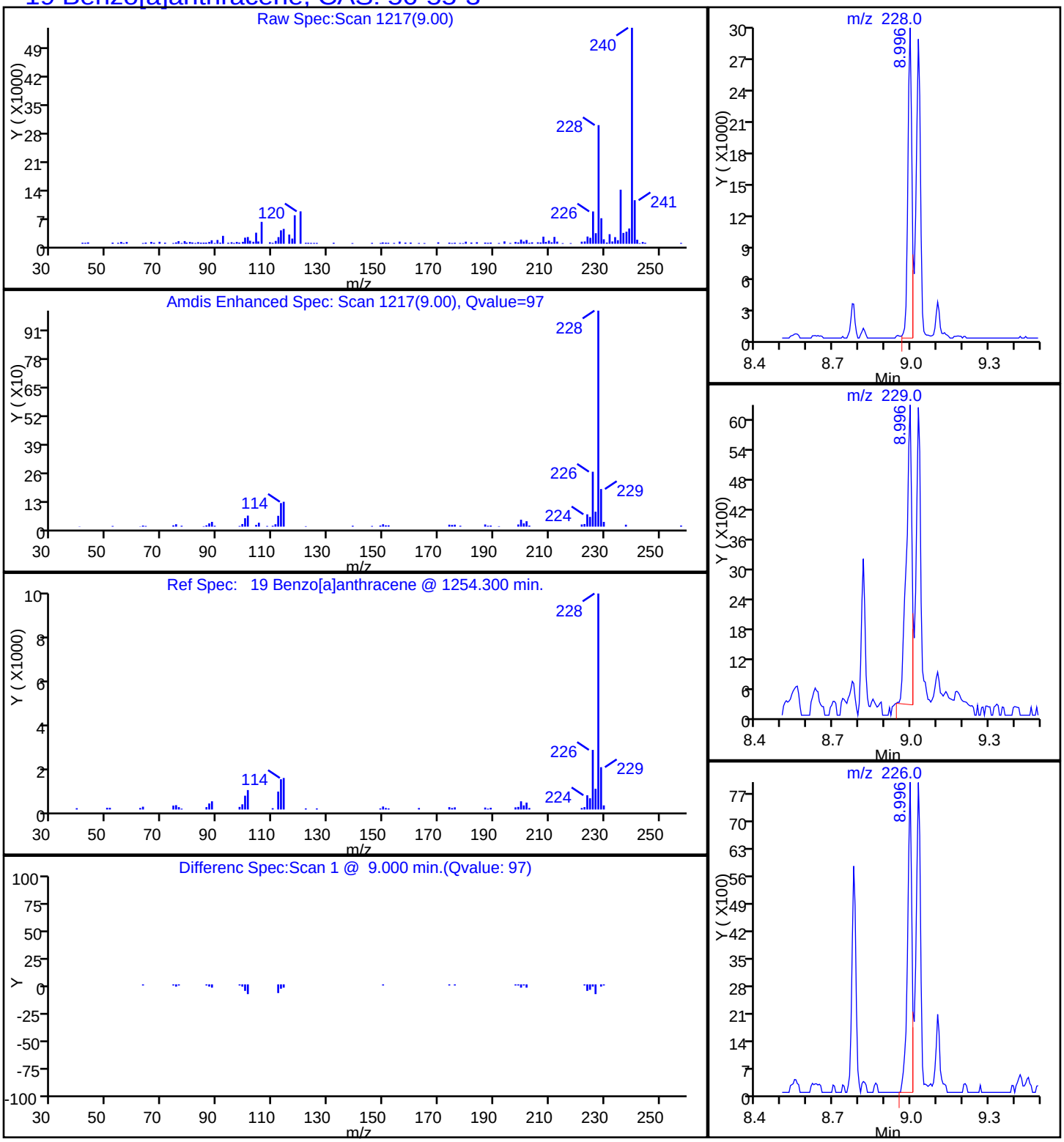


Report Date: 16-Oct-2014 08:47:33 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1530.D | | | | |
| Injection Date: | 15-Oct-2014 23:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-21-A | Lab Sample ID: | 680-106200-21 | | |
| Client ID: | CV0971WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 28 | Worklist Smp#: | 30 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

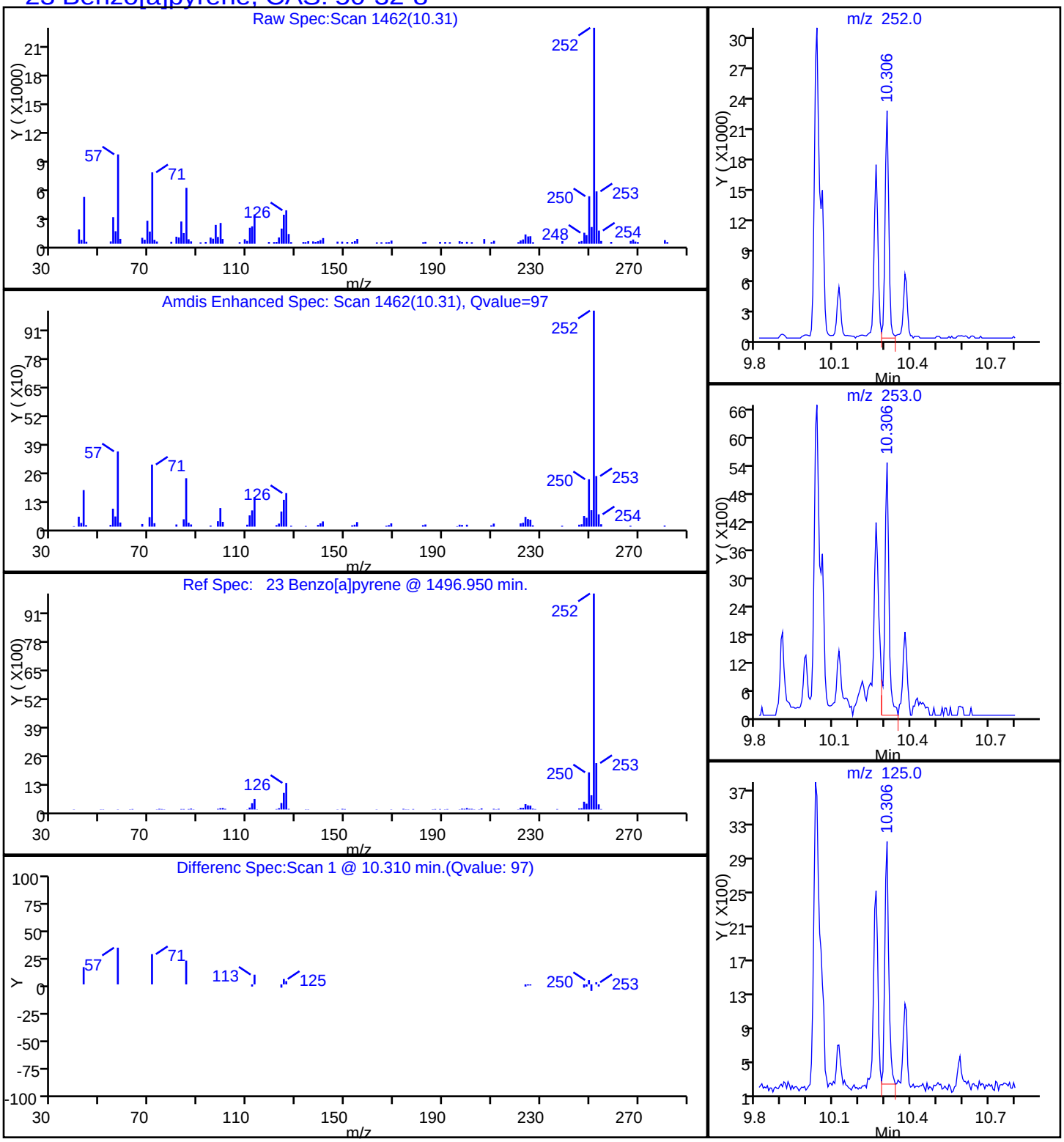


Report Date: 16-Oct-2014 08:47:33 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1530.D | | | | |
| Injection Date: | 15-Oct-2014 23:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-21-A | Lab Sample ID: | 680-106200-21 | | |
| Client ID: | CV0971WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 28 | Worklist Smp#: | 30 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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



Report Date: 16-Oct-2014 08:47:33 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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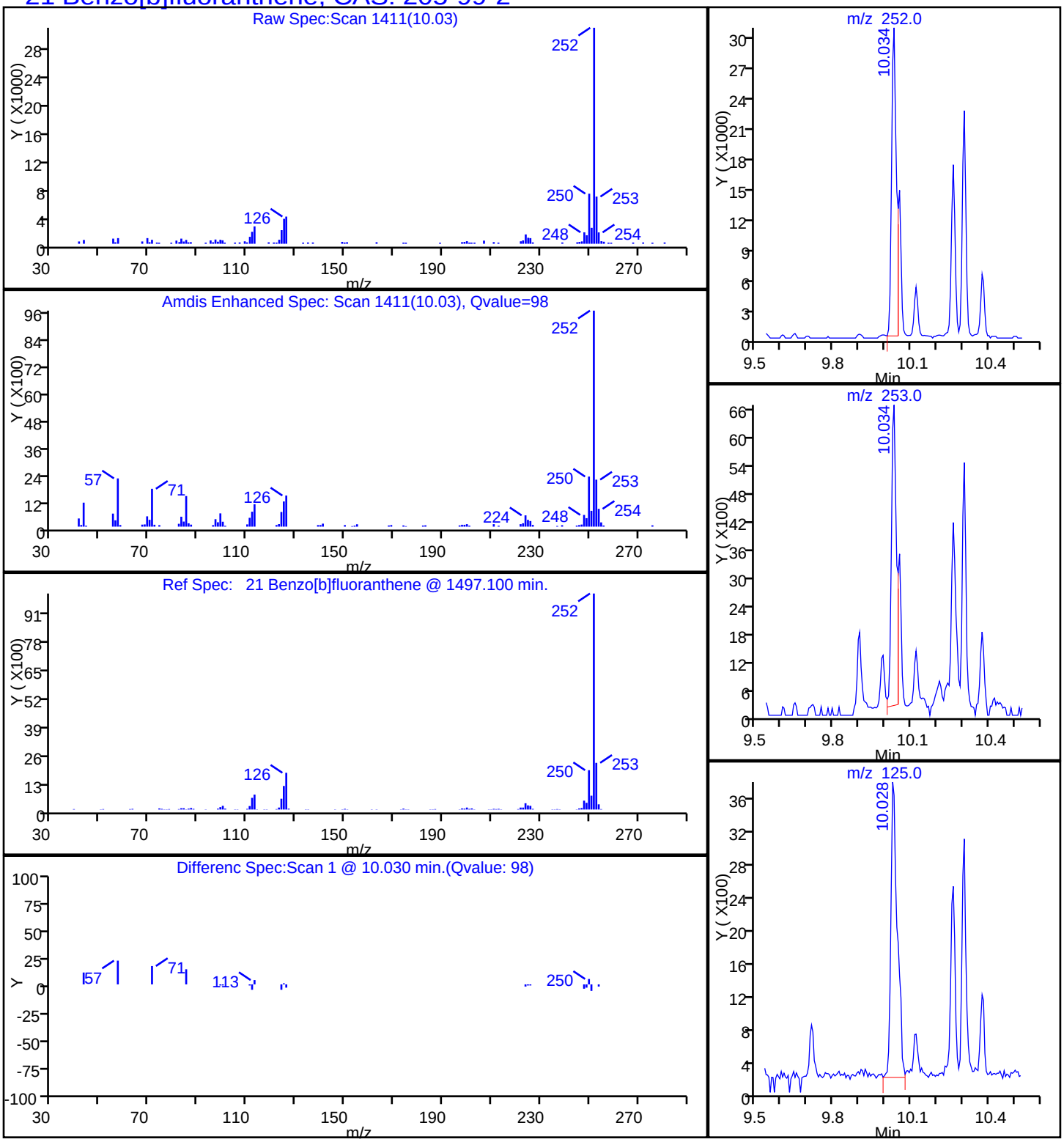
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1530.D | | | | |
| Injection Date: | 15-Oct-2014 23:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-21-A | Lab Sample ID: | 680-106200-21 | | |
| Client ID: | CV0971WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 28 | Worklist Smp#: | 30 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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



Report Date: 16-Oct-2014 08:47:33 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
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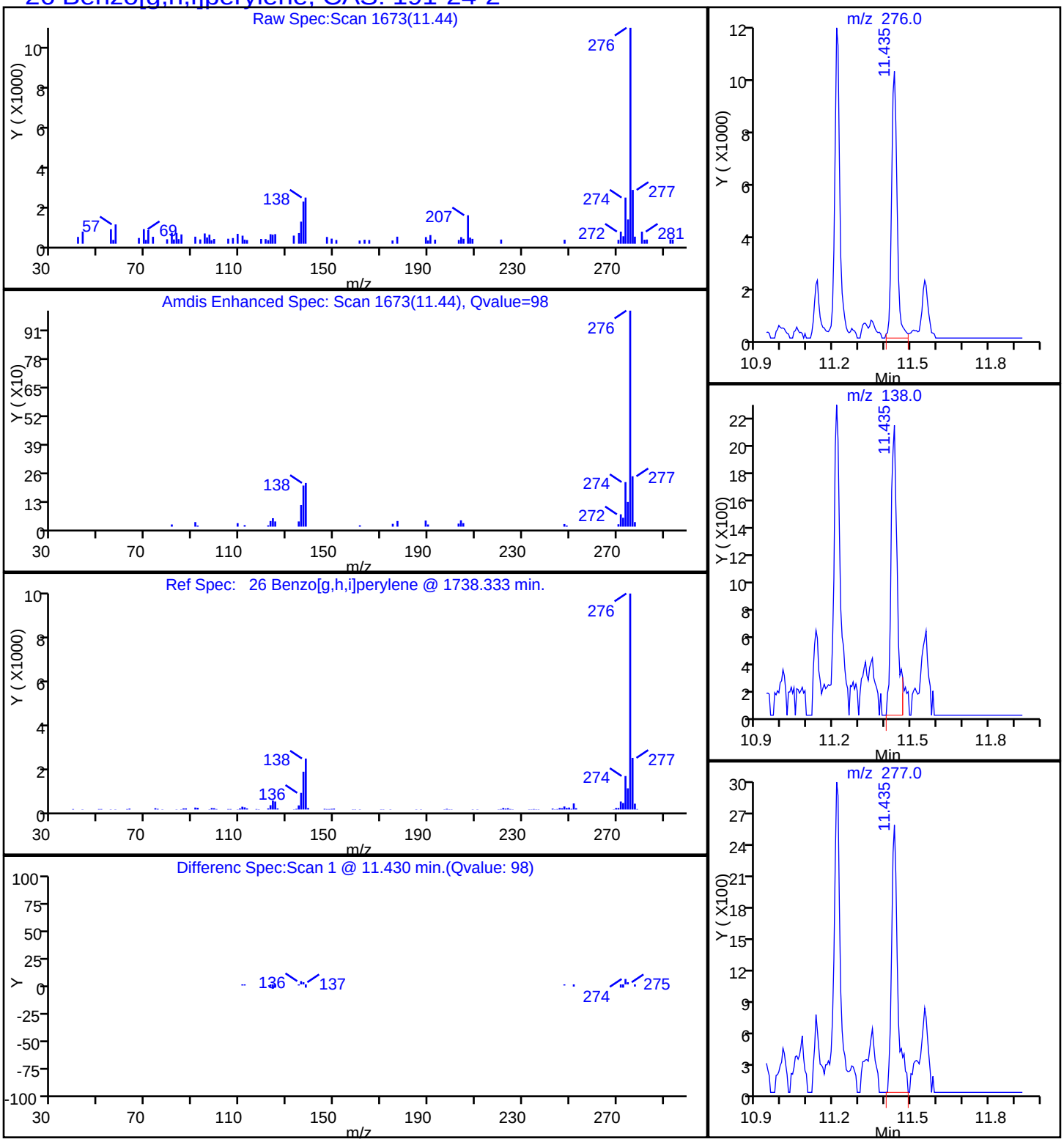
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1530.D | | | | |
| Injection Date: | 15-Oct-2014 23:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-21-A | Lab Sample ID: | 680-106200-21 | | |
| Client ID: | CV0971WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 28 | Worklist Smp#: | 30 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

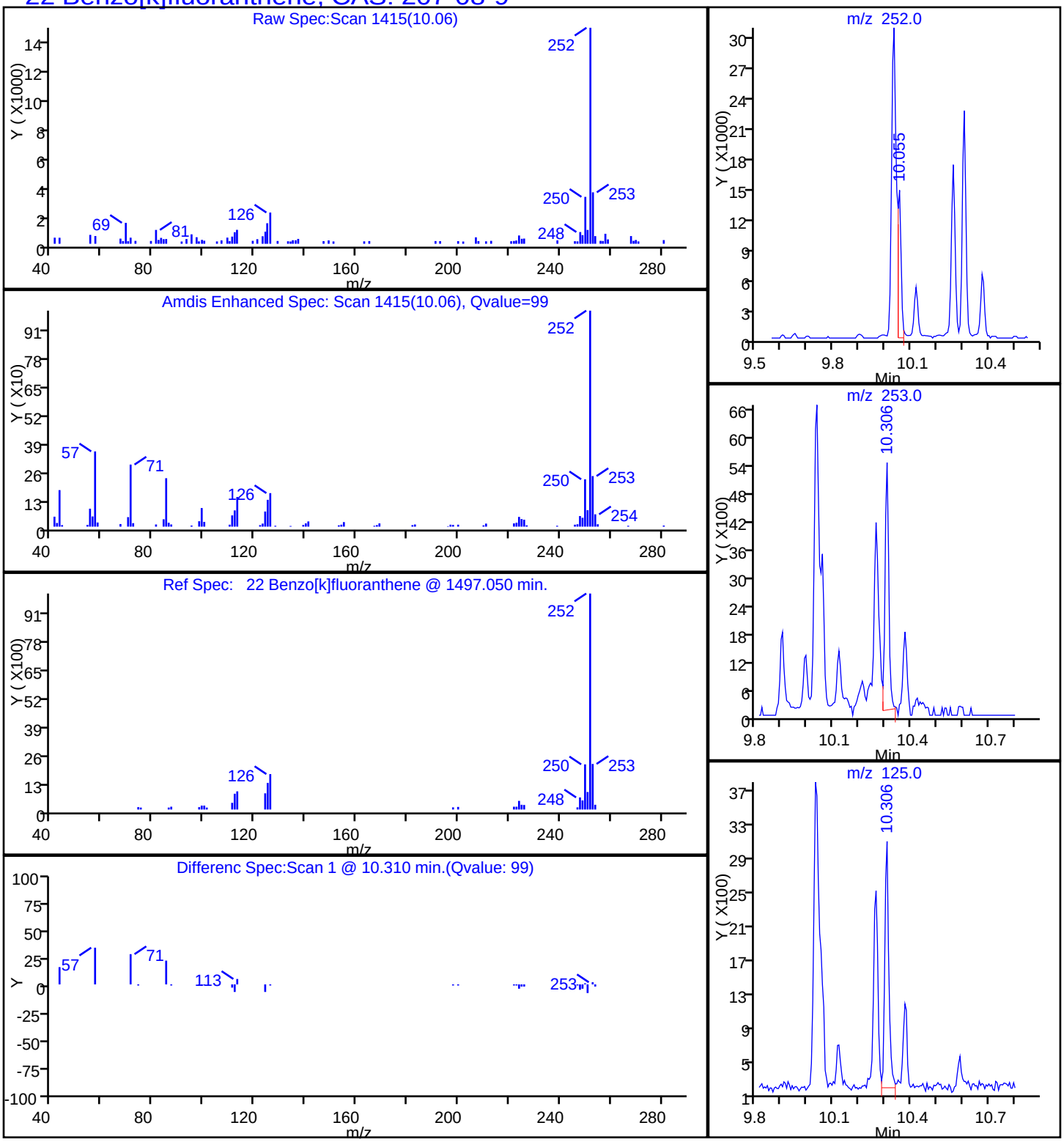


Report Date: 16-Oct-2014 08:47:33 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1530.D | | | | |
| Injection Date: | 15-Oct-2014 23:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-21-A | Lab Sample ID: | 680-106200-21 | | |
| Client ID: | CV0971WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 28 | Worklist Smp#: | 30 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

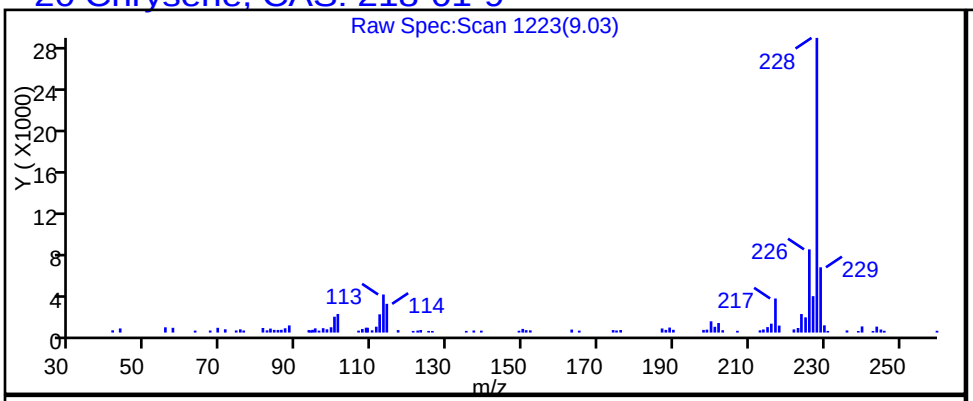


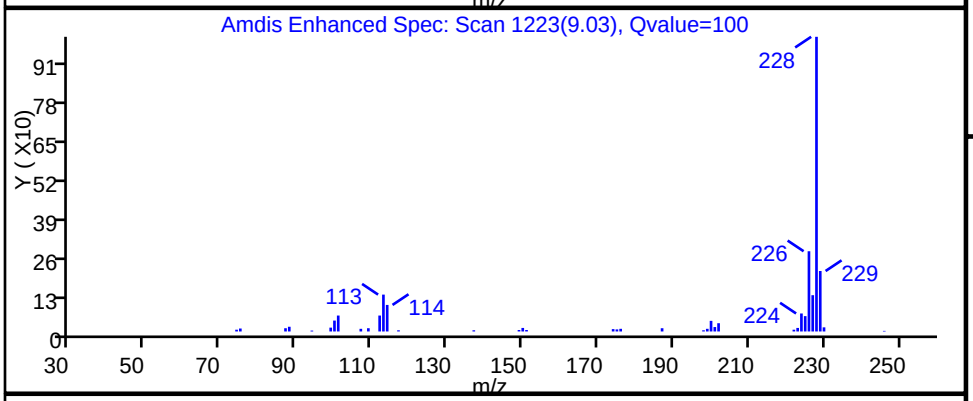
Report Date: 16-Oct-2014 08:47:33 Chrom Revision: 2.2 18-Aug-2014 12:17:36

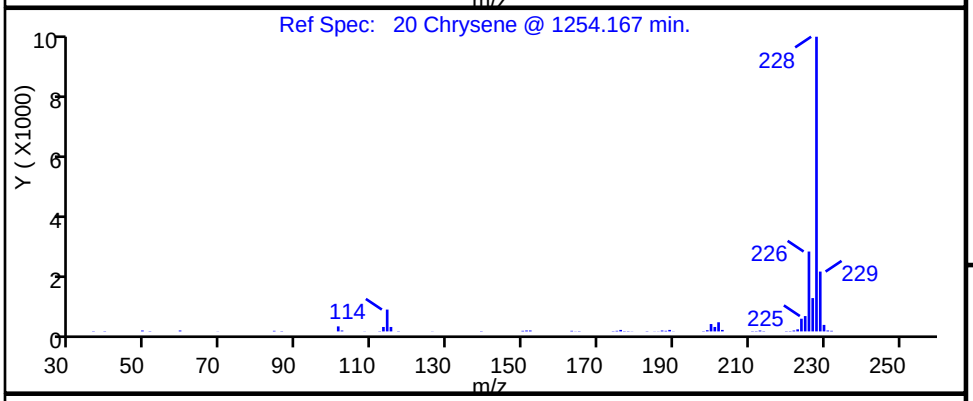
TestAmerica Savannah

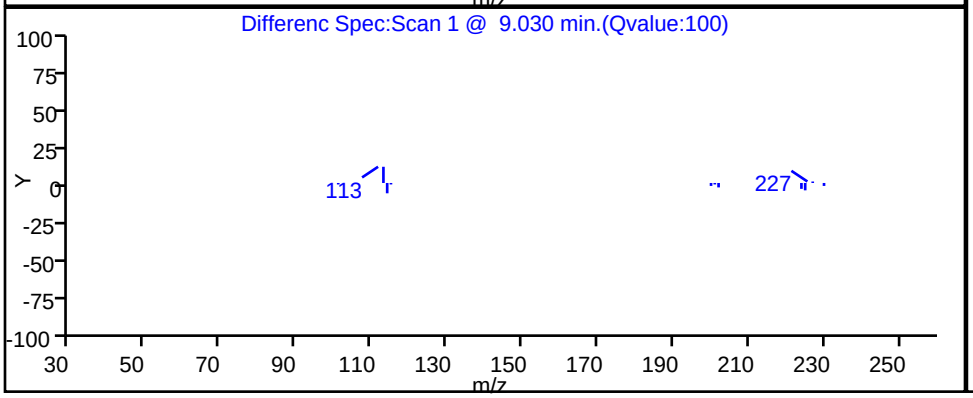
| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1530.D | | | | |
| Injection Date: | 15-Oct-2014 23:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-21-A | Lab Sample ID: | 680-106200-21 | | |
| Client ID: | CV0971WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 28 | Worklist Smp#: | 30 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

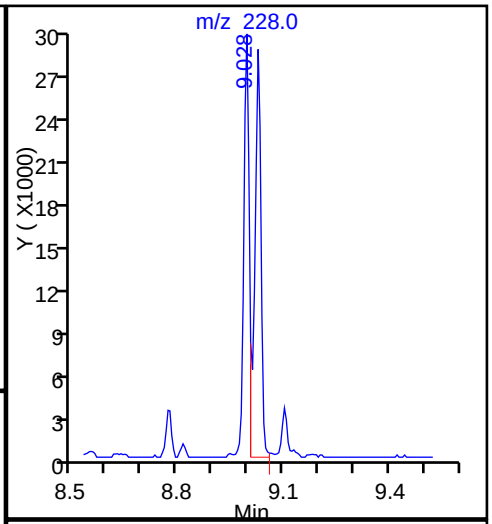
## 20 Chrysene, CAS: 218-01-9

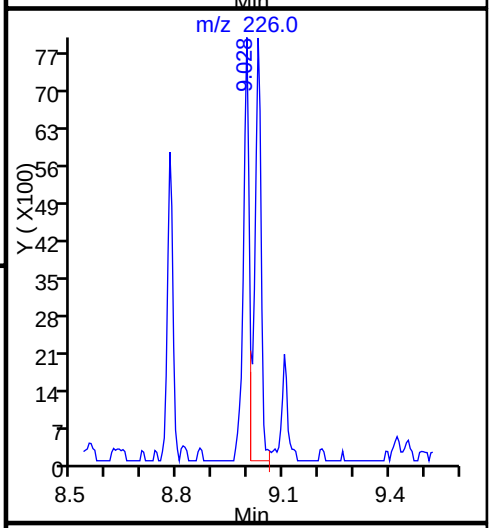


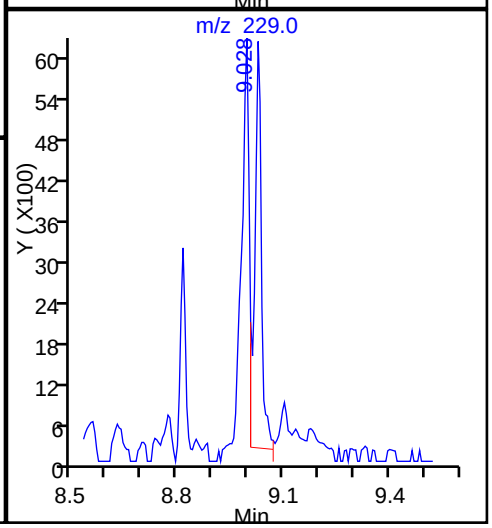



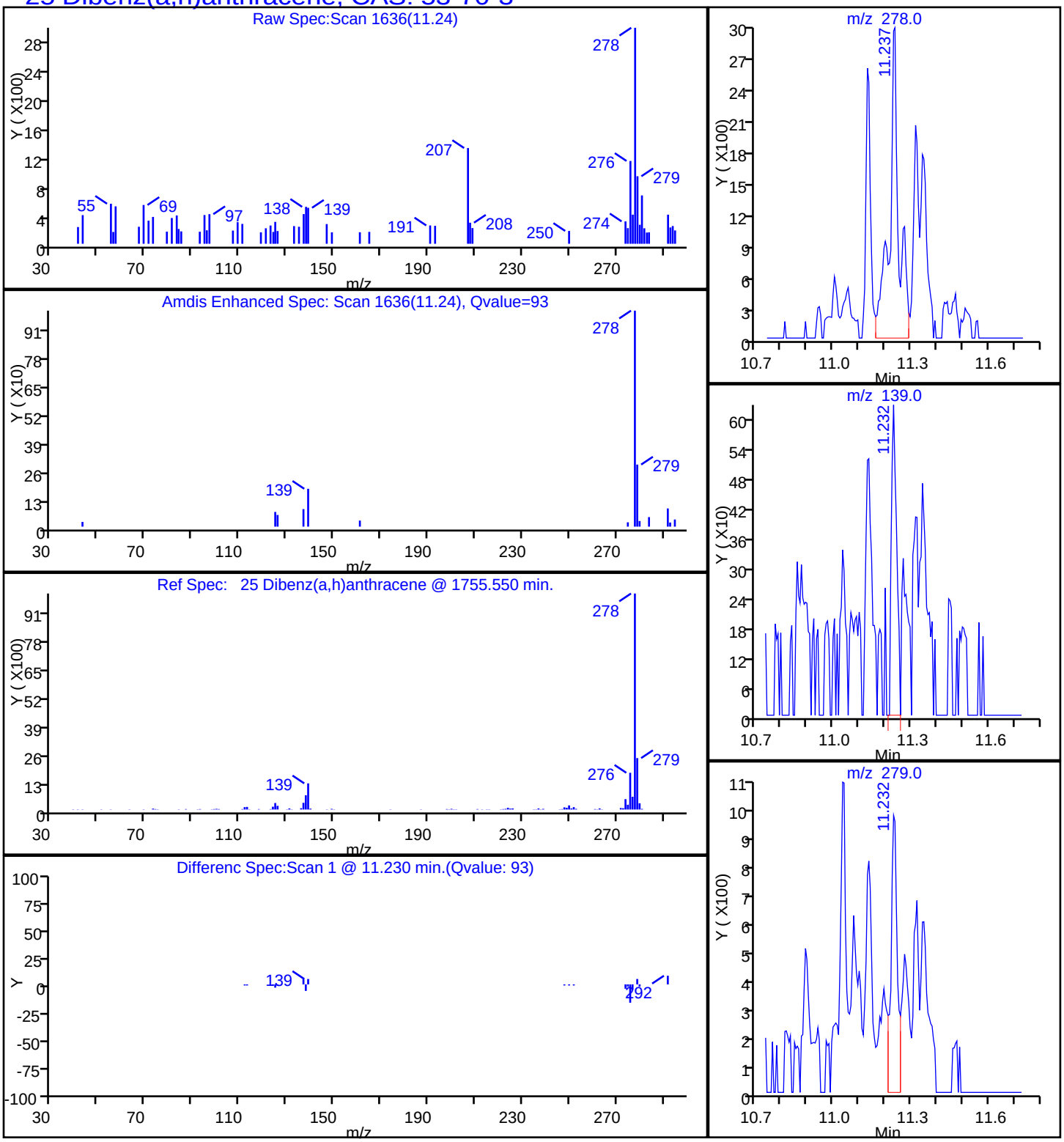



Report Date: 16-Oct-2014 08:47:33 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1530.D | | | | |
| Injection Date: | 15-Oct-2014 23:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-21-A | Lab Sample ID: | 680-106200-21 | | |
| Client ID: | CV0971WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 28 | Worklist Smp#: | 30 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

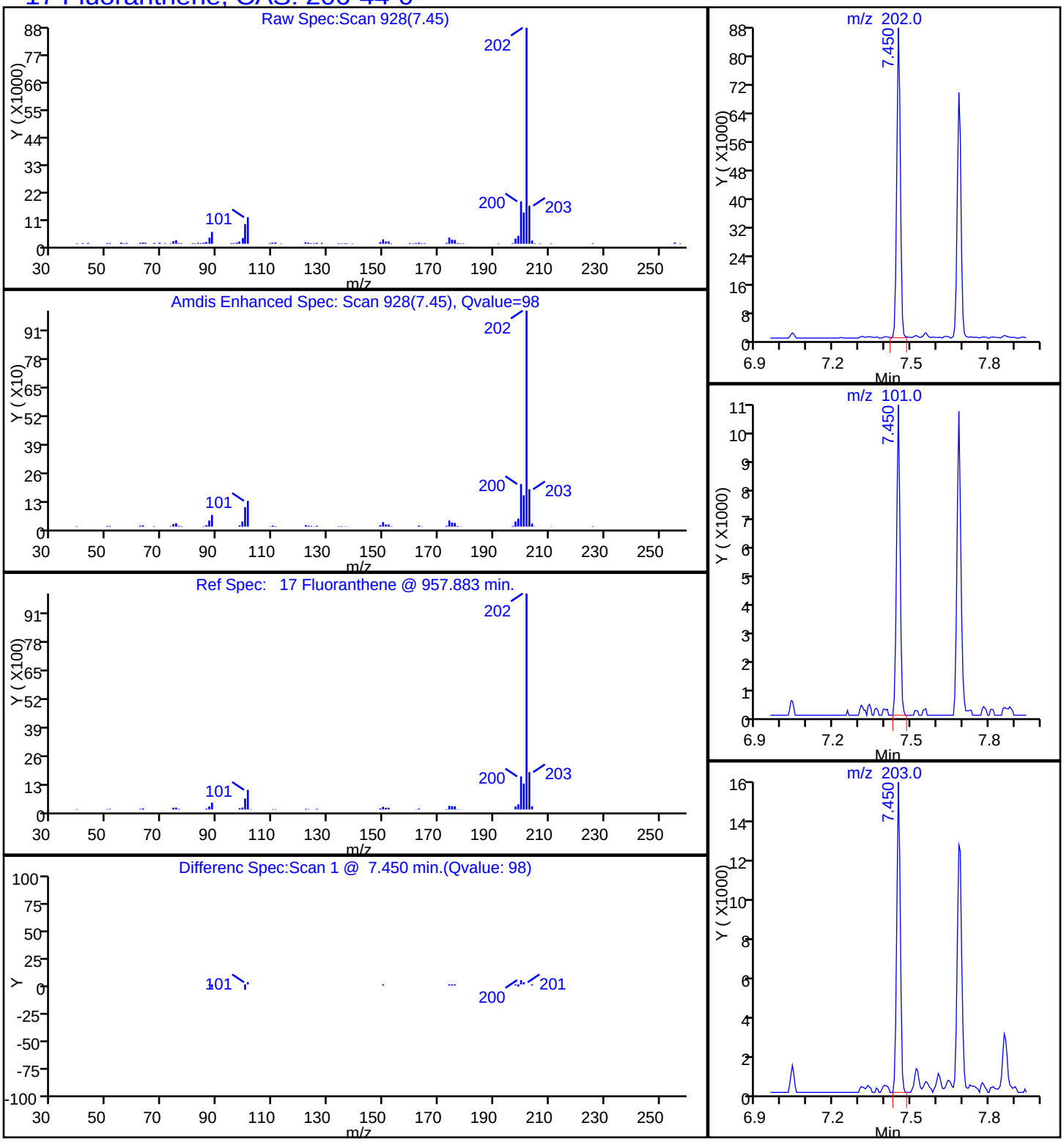


Report Date: 16-Oct-2014 08:47:33 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1530.D | | | | |
| Injection Date: | 15-Oct-2014 23:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-21-A | Lab Sample ID: | 680-106200-21 | | |
| Client ID: | CV0971WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 28 | Worklist Smp#: | 30 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

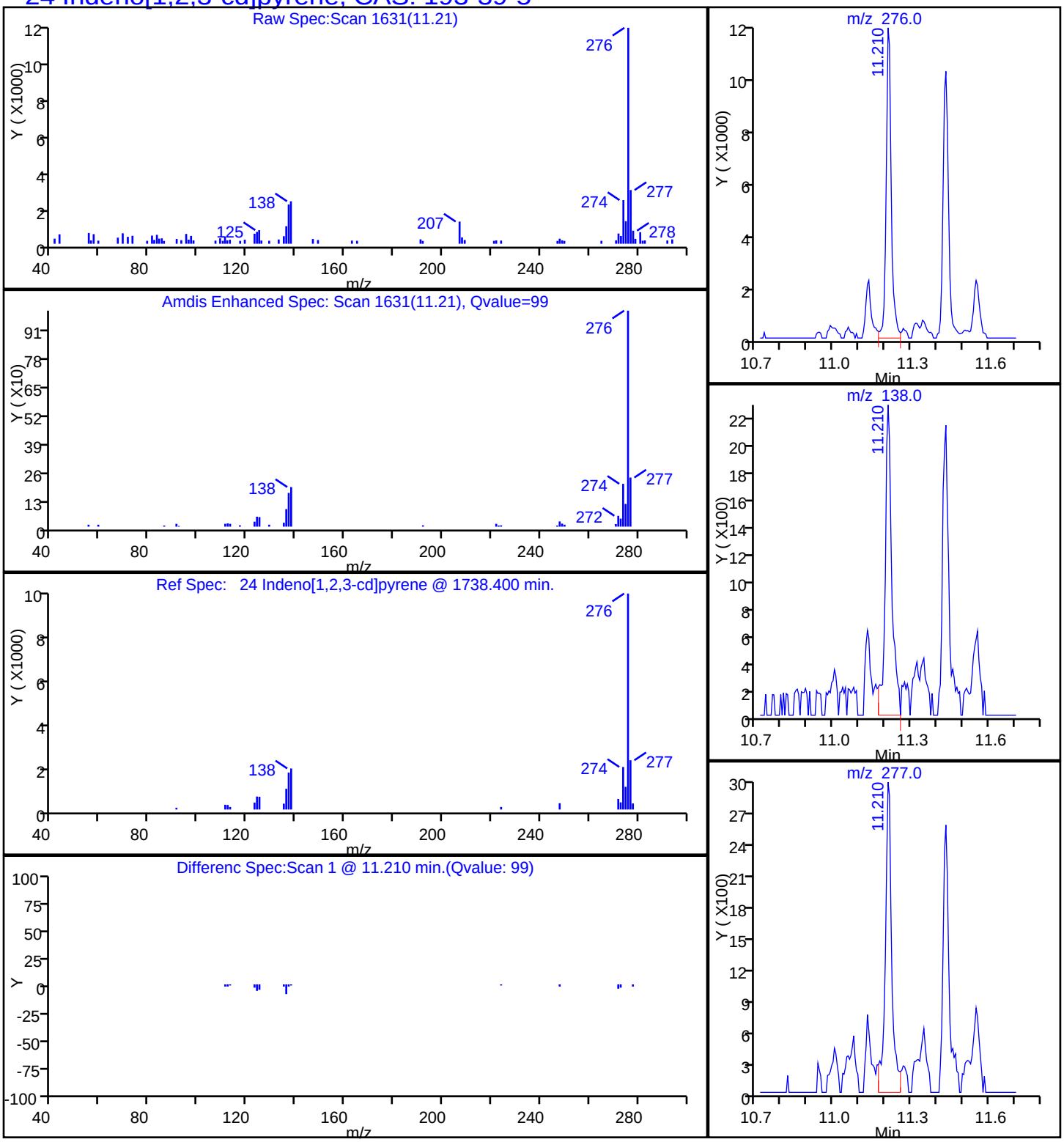


Report Date: 16-Oct-2014 08:47:33 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1530.D | | | | |
| Injection Date: | 15-Oct-2014 23:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-21-A | Lab Sample ID: | 680-106200-21 | | |
| Client ID: | CV0971WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 28 | Worklist Smp#: | 30 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

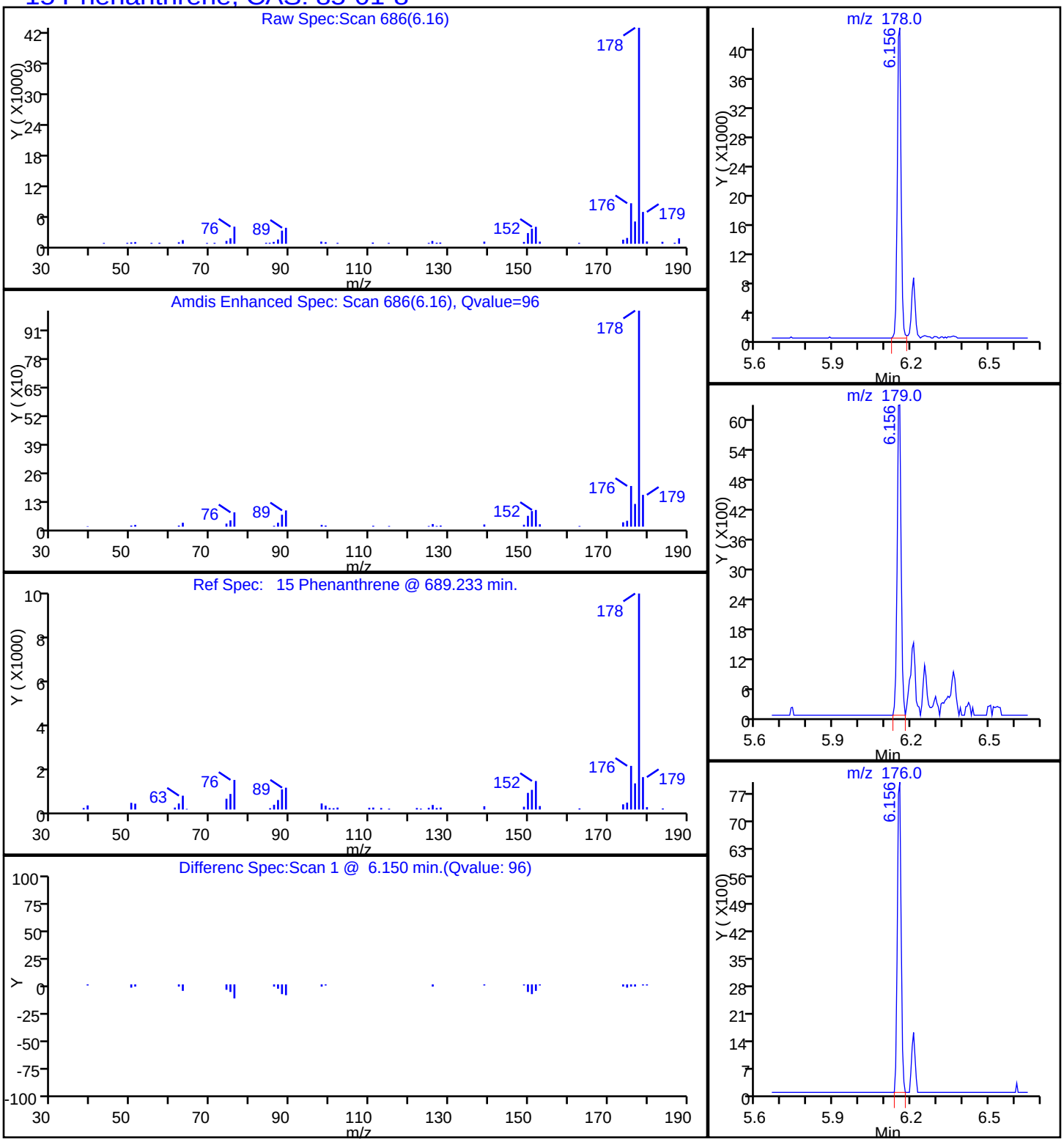


Report Date: 16-Oct-2014 08:47:33 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1530.D | | | | |
| Injection Date: | 15-Oct-2014 23:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-21-A | Lab Sample ID: | 680-106200-21 | | |
| Client ID: | CV0971WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 28 | Worklist Smp#: | 30 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 15 Phenanthrene, CAS: 85-01-8

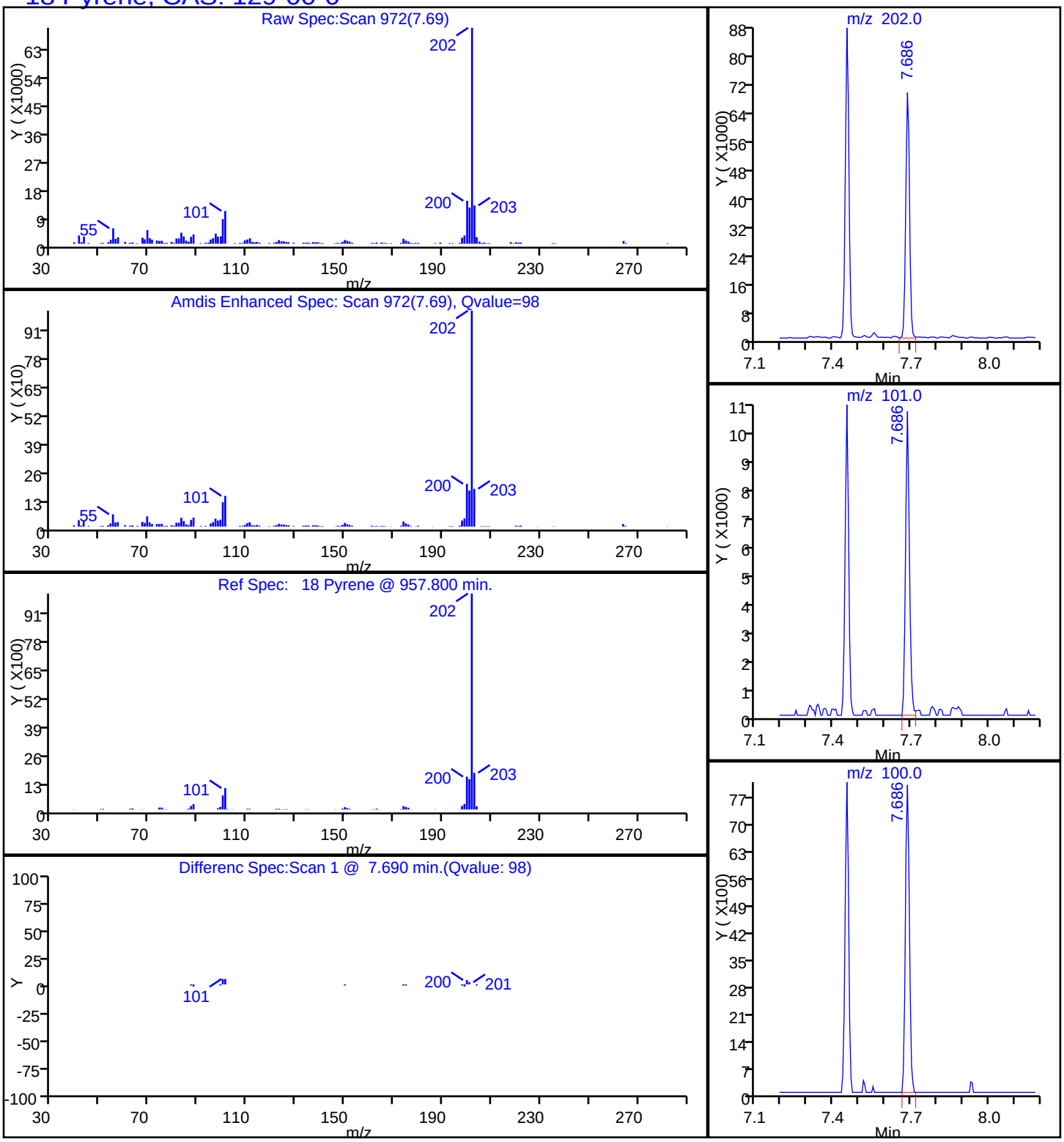


Report Date: 16-Oct-2014 08:47:33 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1530.D | | | | |
| Injection Date: | 15-Oct-2014 23:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-21-A | Lab Sample ID: | 680-106200-21 | | |
| Client ID: | CV0971WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 28 | Worklist Smp#: | 30 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 18 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

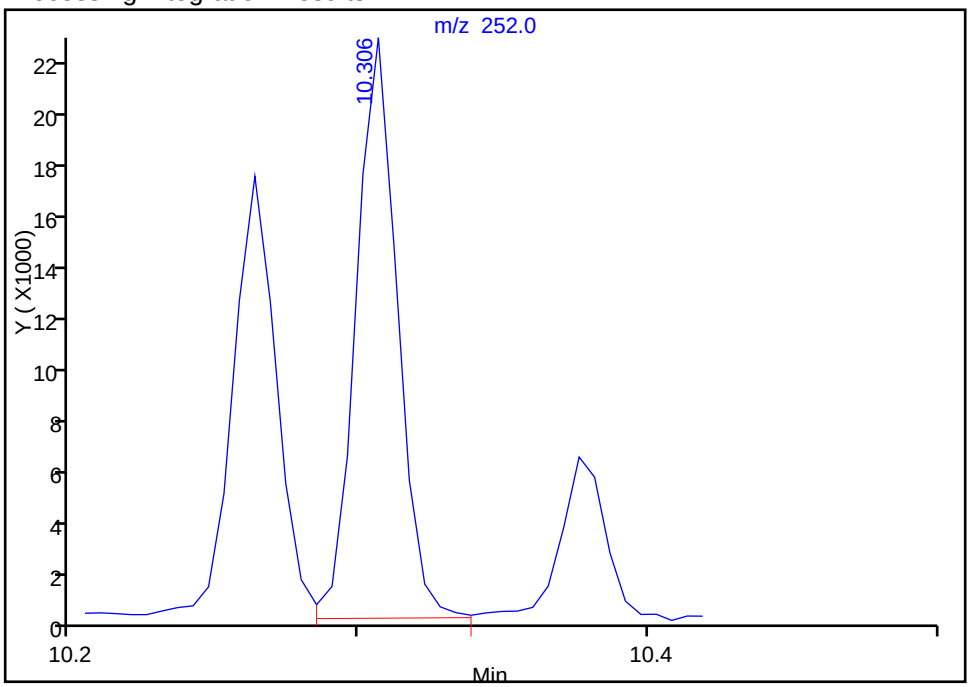
TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1530.D | | | | |
| Injection Date: | 15-Oct-2014 23:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-21-A | Lab Sample ID: | 680-106200-21 | | |
| Client ID: | CV0971WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 28 | Worklist Smp#: | 30 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

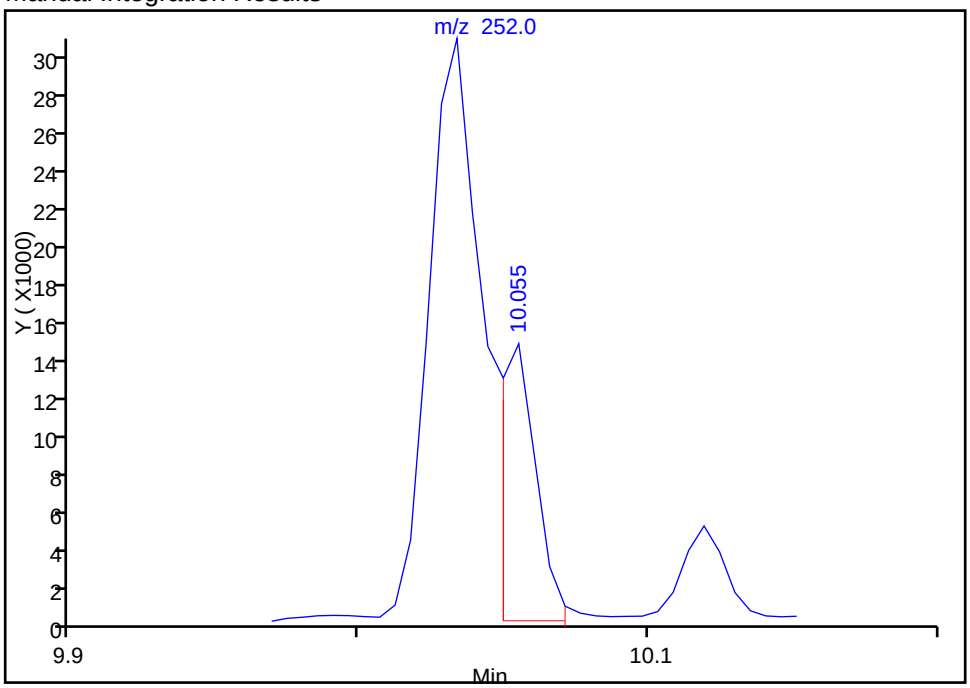
Processing Integration Results

RT: 10.31
Response: 22266
Amount: 0.414205




Manual Integration Results

RT: 10.06
Response: 12748
Amount: 0.236967




Reviewer: webbk, 16-Oct-2014 08:44:46
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0971WW-CS24 | Lab Sample ID: 680-106200-22

Matrix: Solid | Lab File ID: 1YJ1612.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 14:10

Extract. Method: 3546 | Date Extracted: 10/15/2014 10:01

Sample wt/vol: 30.01(g) | Date Analyzed: 10/16/2014 13:34

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353862 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 7.3 | U | 7.3 | 3.6 |
| 208-96-8 | Acenaphthylene | 7.3 | U | 7.3 | 3.6 |
| 120-12-7 | Anthracene | 7.3 | U | 7.3 | 3.6 |
| 56-55-3 | Benzo[a]anthracene | 24 | | 7.3 | 3.6 |
| 50-32-8 | Benzo[a]pyrene | 7.1 | J | 7.3 | 1.3 |
| 205-99-2 | Benzo[b]fluoranthene | 37 | | 7.3 | 3.6 |
| 191-24-2 | Benzo[g,h,i]perylene | 20 | | 7.3 | 3.6 |
| 207-08-9 | Benzo[k]fluoranthene | 12 | | 7.3 | 2.2 |
| 218-01-9 | Chrysene | 25 | | 7.3 | 3.6 |
| 53-70-3 | Dibenz(a,h)anthracene | 6.4 | J | 7.3 | 3.6 |
| 206-44-0 | Fluoranthene | 38 | | 7.3 | 3.6 |
| 86-73-7 | Fluorene | 7.3 | U | 7.3 | 3.6 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 14 | | 7.3 | 3.6 |
| 90-12-0 | 1-Methylnaphthalene | 7.3 | U | 7.3 | 3.4 |
| 91-57-6 | 2-Methylnaphthalene | 7.3 | U | 7.3 | 3.6 |
| 91-20-3 | Naphthalene | 7.3 | U | 7.3 | 3.6 |
| 85-01-8 | Phenanthrene | 17 | | 7.3 | 2.6 |
| 129-00-0 | Pyrene | 38 | | 7.3 | 3.6 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 100 | | 36-131 |

TestAmerica Savannah
Target Compound Quantitation Report

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1612.D | | | | |
| Lims ID: | 680-106200-A-22-A | Lab Sample ID: | 680-106200-22 | | |
| Client ID: | CV0971WW-CS24 | | | | |
| Sample Type: | Client | | | | |
| Inject. Date: | 16-Oct-2014 13:34:30 | ALS Bottle#: | 11 | Worklist Smp#: | 12 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Sample Info: | 106200-A-22-A | | | | |
| Misc. Info.: | 680-0013814-012 | | | | |
| Operator ID: | RM | Instrument ID: | CMSY | | |

| | | | |
|---|---|---|---|
| Method: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\8270D_LLPAH_MSY.m | | |
| Limit Group: | 8270D_LL_PAH | | |
| Last Update: | 17-Oct-2014 14:22:05 | Calib Date: | 07-Oct-2014 15:41:30 |
| Integrator: | RTE | ID Type: | RT Order ID |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D | | |

| | | |
|---|---|---|
| Column 1 : | Restek RXi-5Sil MS ( 0.25 mm) | Det: MS SCAN |
| Process Host: | XAWRK031 | |

First Level Reviewer: webbk Date: 17-Oct-2014 14:22:05

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.802 | 2.803 | -0.001 | 98 | 141619 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.492 | 4.487 | 0.005 | 82 | 81026 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.060 | 6.054 | 0.006 | 98 | 135991 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 8.932 | 8.927 | 0.005 | 99 | 117144 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.280 | 10.269 | 0.011 | 97 | 92889 | 2.00 | |
| $ 6 o-Terphenyl | 230 | 6.546 | 6.541 | 0.005 | 91 | 75461 | 2.01 | |
| 11 Acenaphthylene | 152 | 4.337 | 4.338 | -0.001 | 75 | 4481 | 0.0571 | |
| 15 Phenanthrene | 178 | 6.086 | 6.081 | 0.005 | 94 | 38383 | 0.4716 | |
| 16 Anthracene | 178 | 6.140 | 6.135 | 0.005 | 85 | 6658 | 0.0823 | |
| 17 Fluoranthene | 202 | 7.381 | 7.376 | 0.005 | 98 | 89630 | 1.04 | |
| 18 Pyrene | 202 | 7.616 | 7.606 | 0.010 | 97 | 79012 | 1.03 | |
| 19 Benzo[a]anthracene | 228 | 8.926 | 8.916 | 0.010 | 71 | 44305 | 0.6467 | |
| 20 Chrysene | 228 | 8.958 | 8.953 | 0.005 | 91 | 44123 | 0.6766 | |
| 21 Benzo[b]fluoranthene | 252 | 9.959 | 9.948 | 0.011 | 97 | 61686 | 1.01 | |
| 22 Benzo[k]fluoranthene | 252 | 9.980 | 9.980 | 0.005 | 98 | 18793 | 0.3168 | M |
| 23 Benzo[a]pyrene | 252 | 10.301 | 10.221 | 0.080 | 90 | 9742 | 0.1939 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.119 | 11.109 | 0.010 | 99 | 24544 | 0.3816 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.146 | 11.136 | 0.010 | 86 | 7723 | 0.1759 | |
| 26 Benzo[g,h,i]perylene | 276 | 11.339 | 11.323 | 0.016 | 84 | 24898 | 0.5435 | |

## QC Flag Legend

Review Flags

M - Manually Integrated

## Reagents:

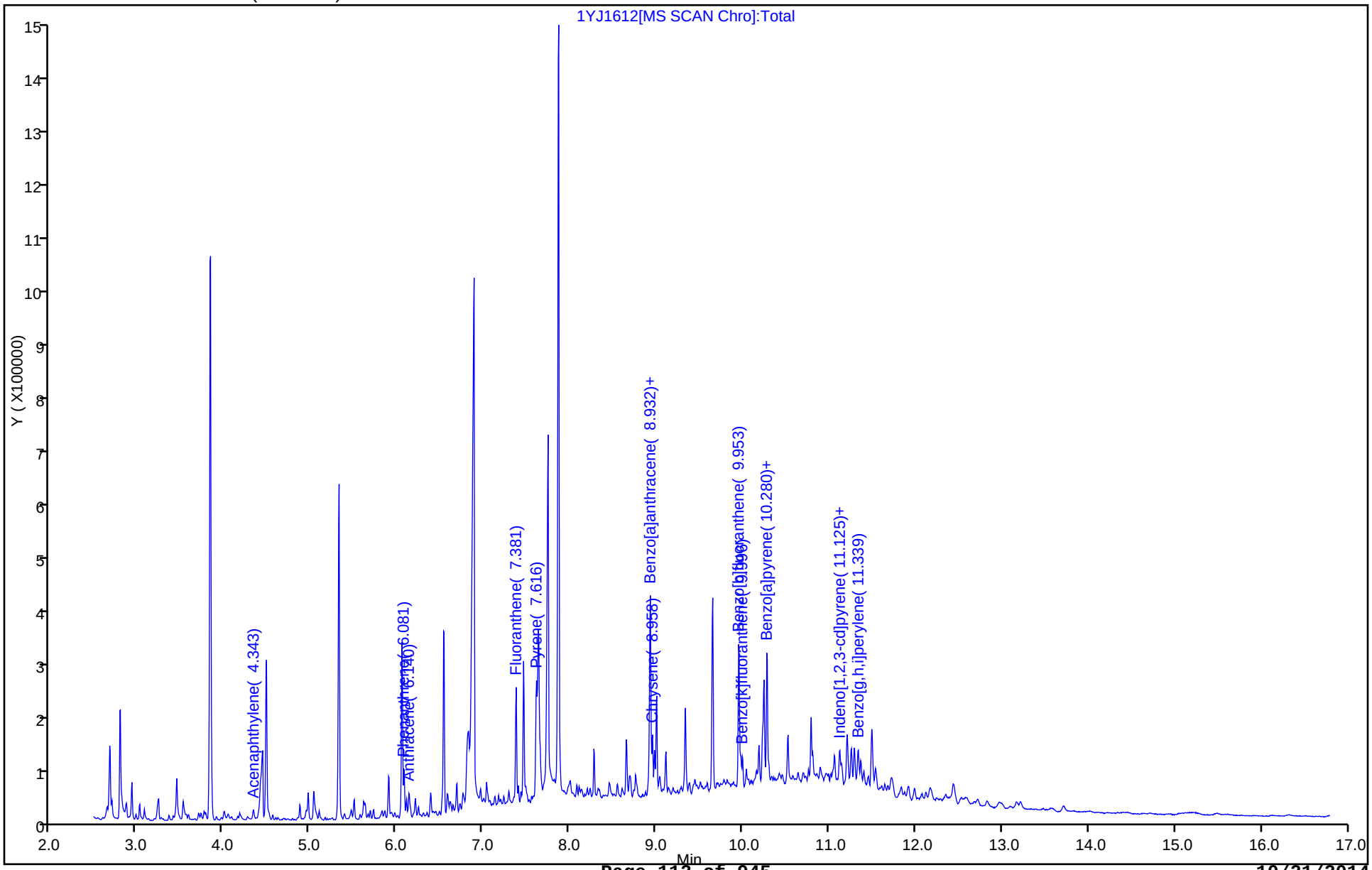
SM-LLISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 17-Oct-2014 14:22:06 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1612.D | | | | |
| Injection Date: | 16-Oct-2014 13:34:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | 680-106200-A-22-A | Lab Sample ID: | 680-106200-22 | Worklist Smp#: | 12 |
| Client ID: | CV0971WW-CS24 | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | ALS Bottle#: | 11 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)

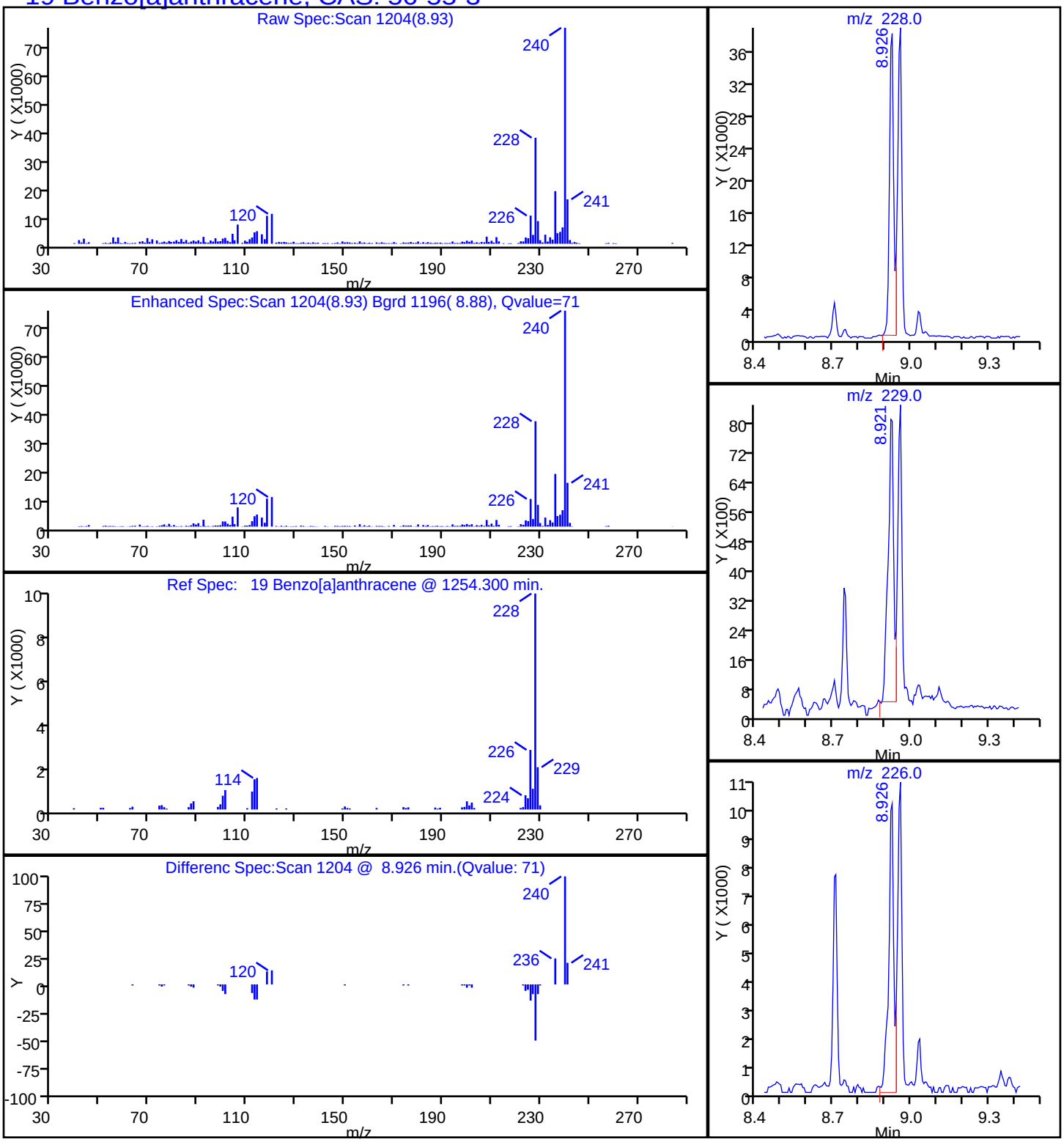


Report Date: 17-Oct-2014 14:22:06 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1612.D | | | | |
| Injection Date: | 16-Oct-2014 13:34:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-22-A | Lab Sample ID: | 680-106200-22 | | |
| Client ID: | CV0971WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 11 | Worklist Smp#: | 12 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

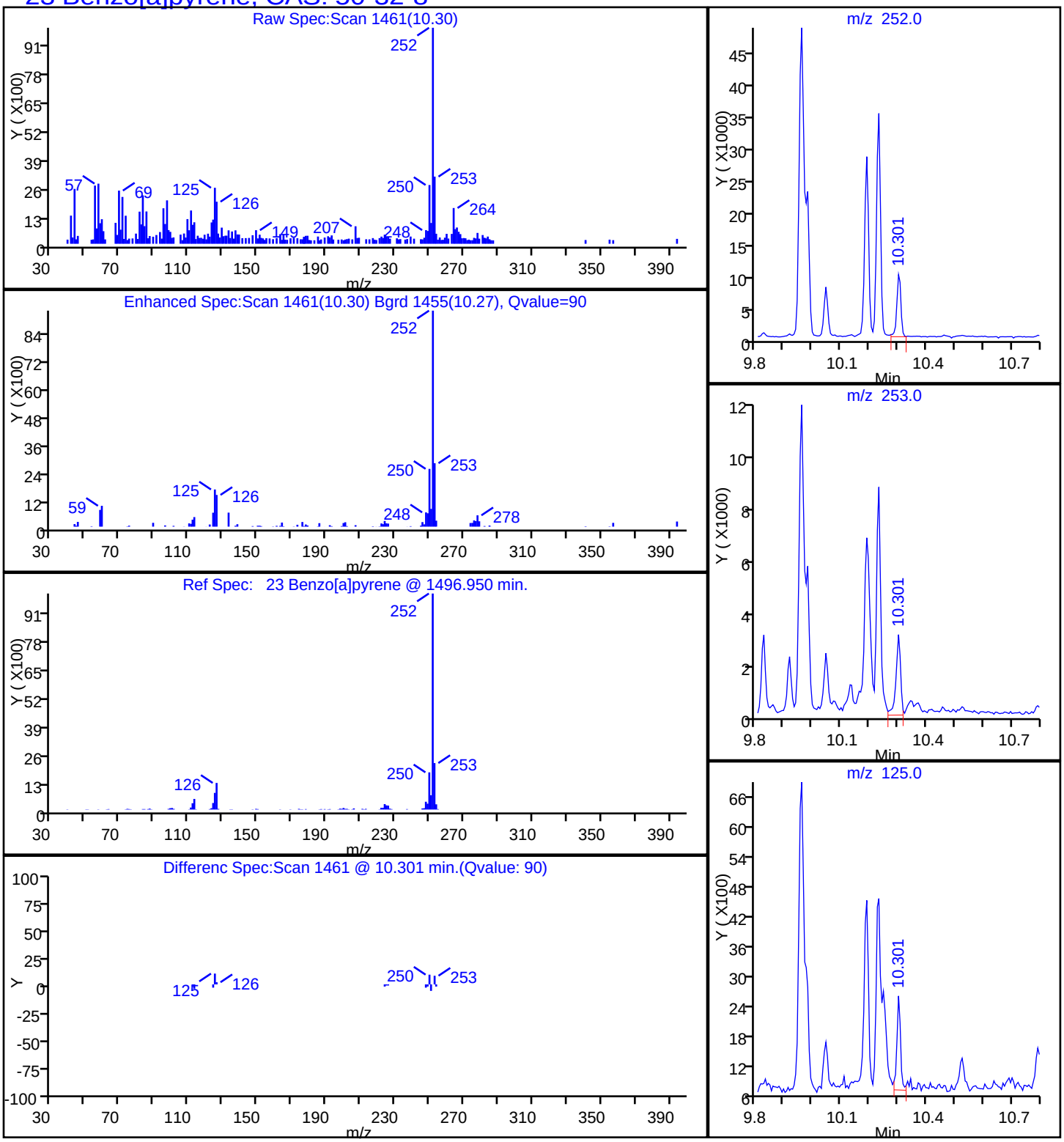


Report Date: 17-Oct-2014 14:22:06 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1612.D | | | | |
| Injection Date: | 16-Oct-2014 13:34:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-22-A | Lab Sample ID: | 680-106200-22 | | |
| Client ID: | CV0971WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 11 | Worklist Smp#: | 12 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

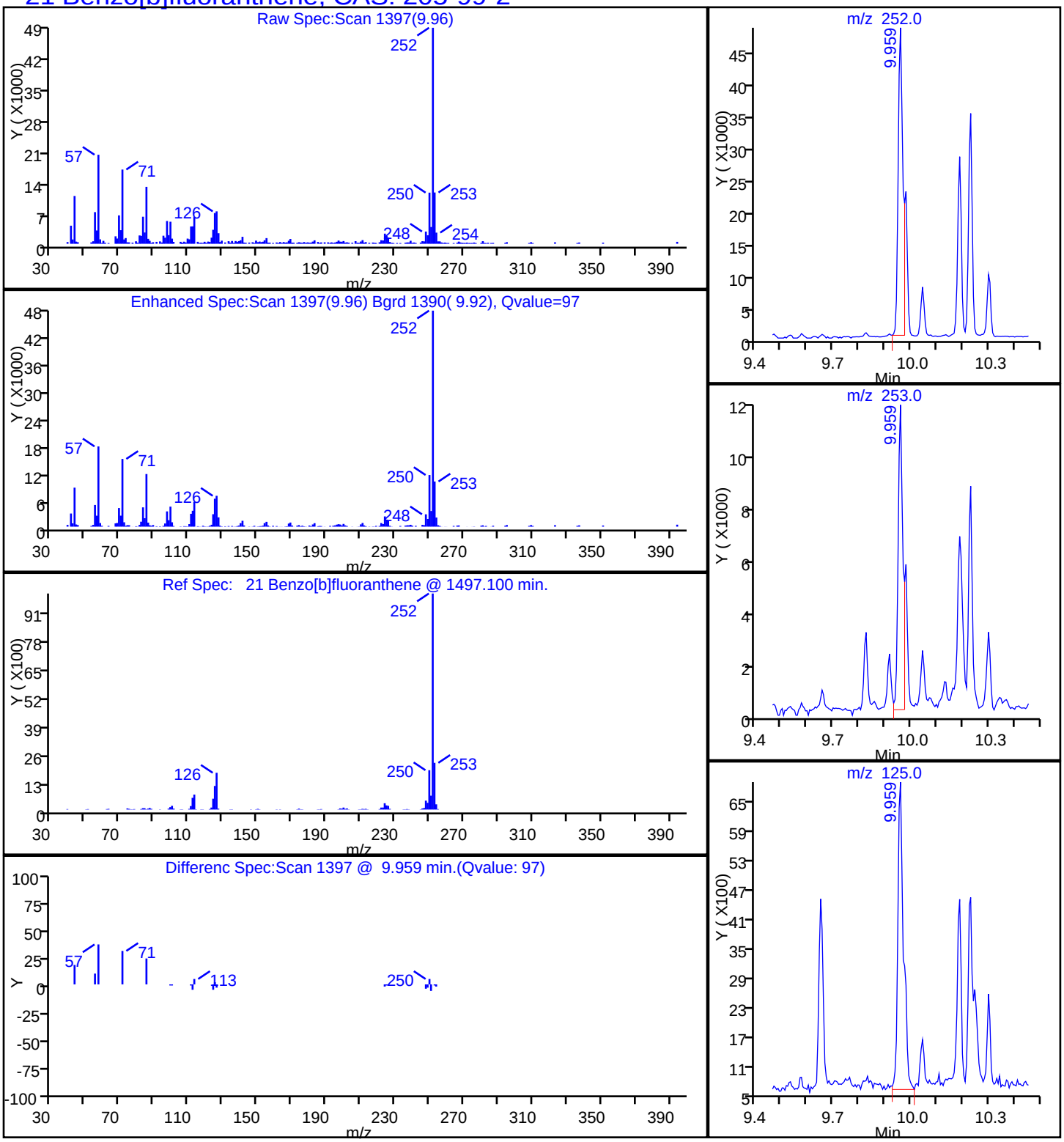


Report Date: 17-Oct-2014 14:22:06 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1612.D | | | | |
| Injection Date: | 16-Oct-2014 13:34:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-22-A | Lab Sample ID: | 680-106200-22 | | |
| Client ID: | CV0971WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 11 | Worklist Smp#: | 12 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

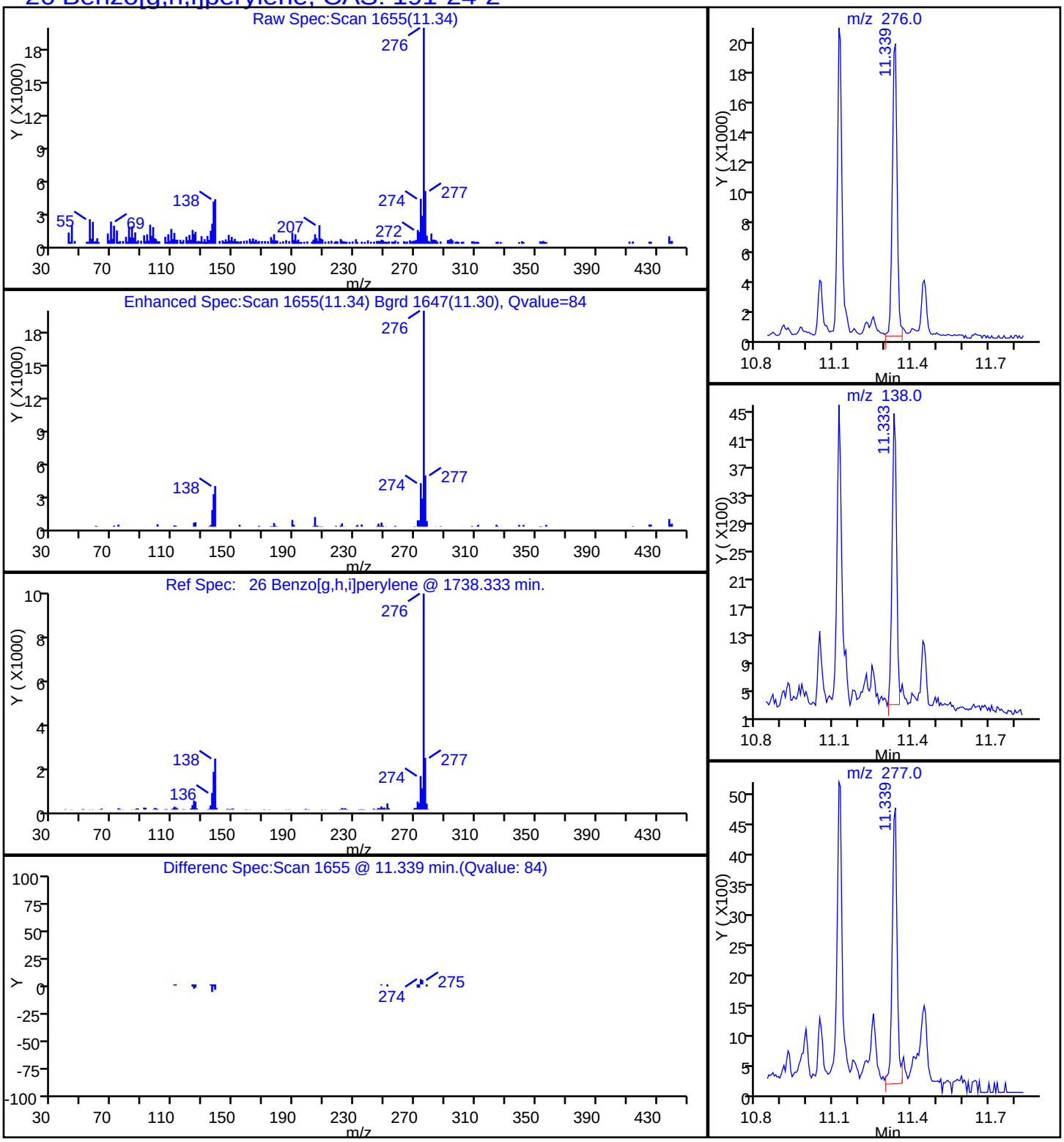


Report Date: 17-Oct-2014 14:22:06 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1612.D | | | | |
| Injection Date: | 16-Oct-2014 13:34:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-22-A | Lab Sample ID: | 680-106200-22 | | |
| Client ID: | CV0971WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 11 | Worklist Smp#: | 12 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

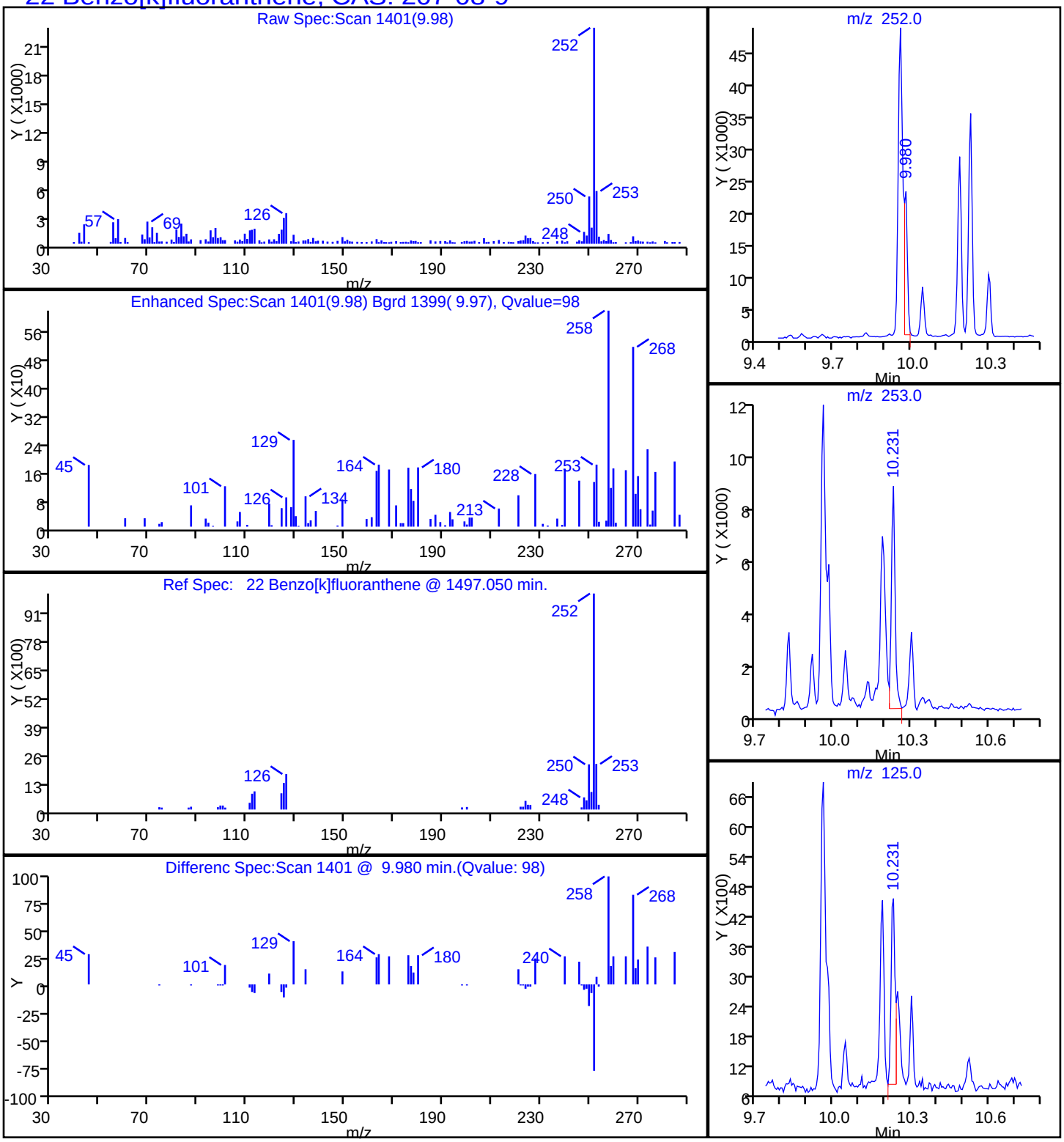


Report Date: 17-Oct-2014 14:22:06 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1612.D | | | | |
| Injection Date: | 16-Oct-2014 13:34:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-22-A | Lab Sample ID: | 680-106200-22 | | |
| Client ID: | CV0971WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 11 | Worklist Smp#: | 12 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

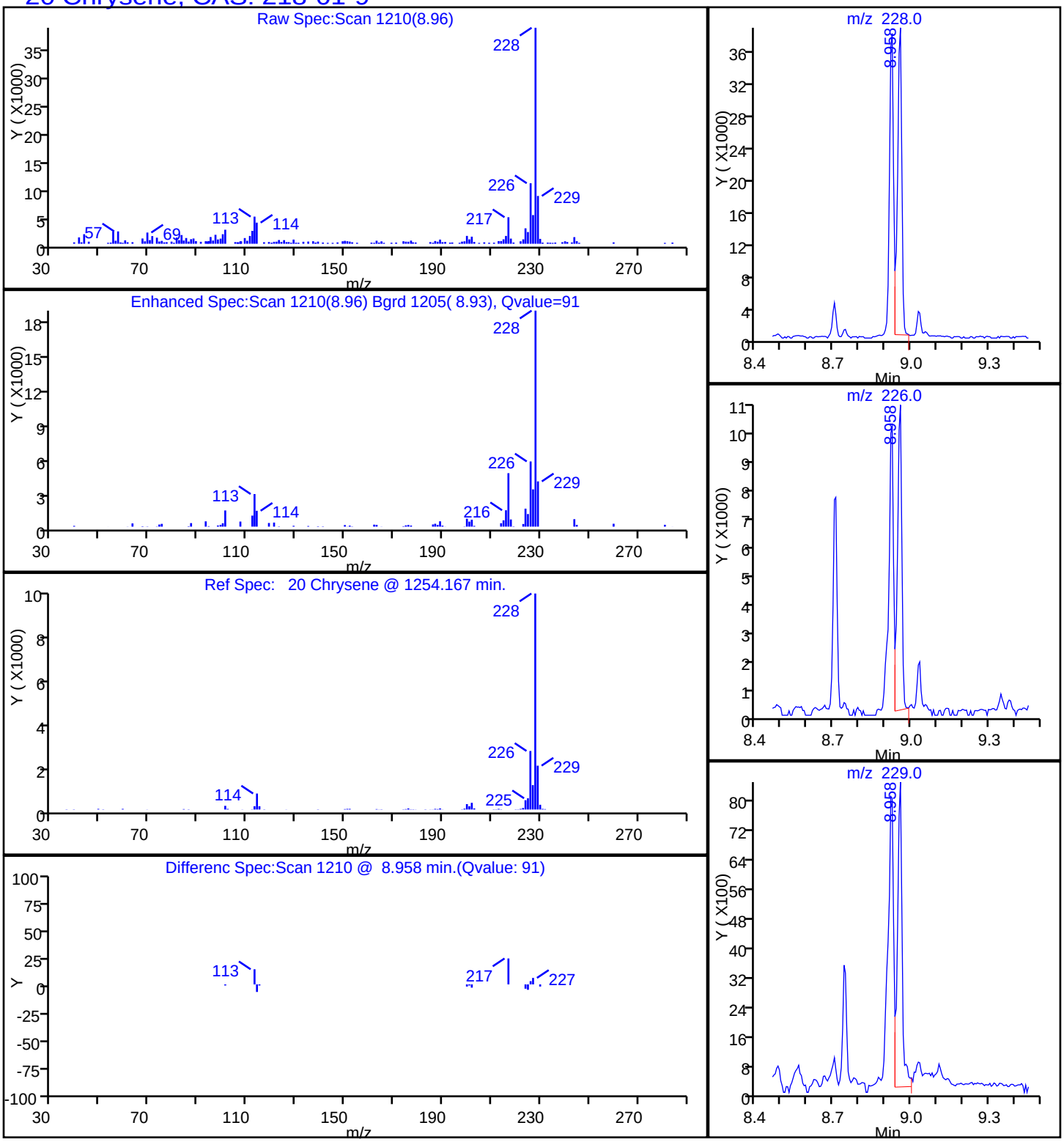


Report Date: 17-Oct-2014 14:22:06 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1612.D | | | | |
| Injection Date: | 16-Oct-2014 13:34:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-22-A | Lab Sample ID: | 680-106200-22 | | |
| Client ID: | CV0971WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 11 | Worklist Smp#: | 12 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 20 Chrysene, CAS: 218-01-9

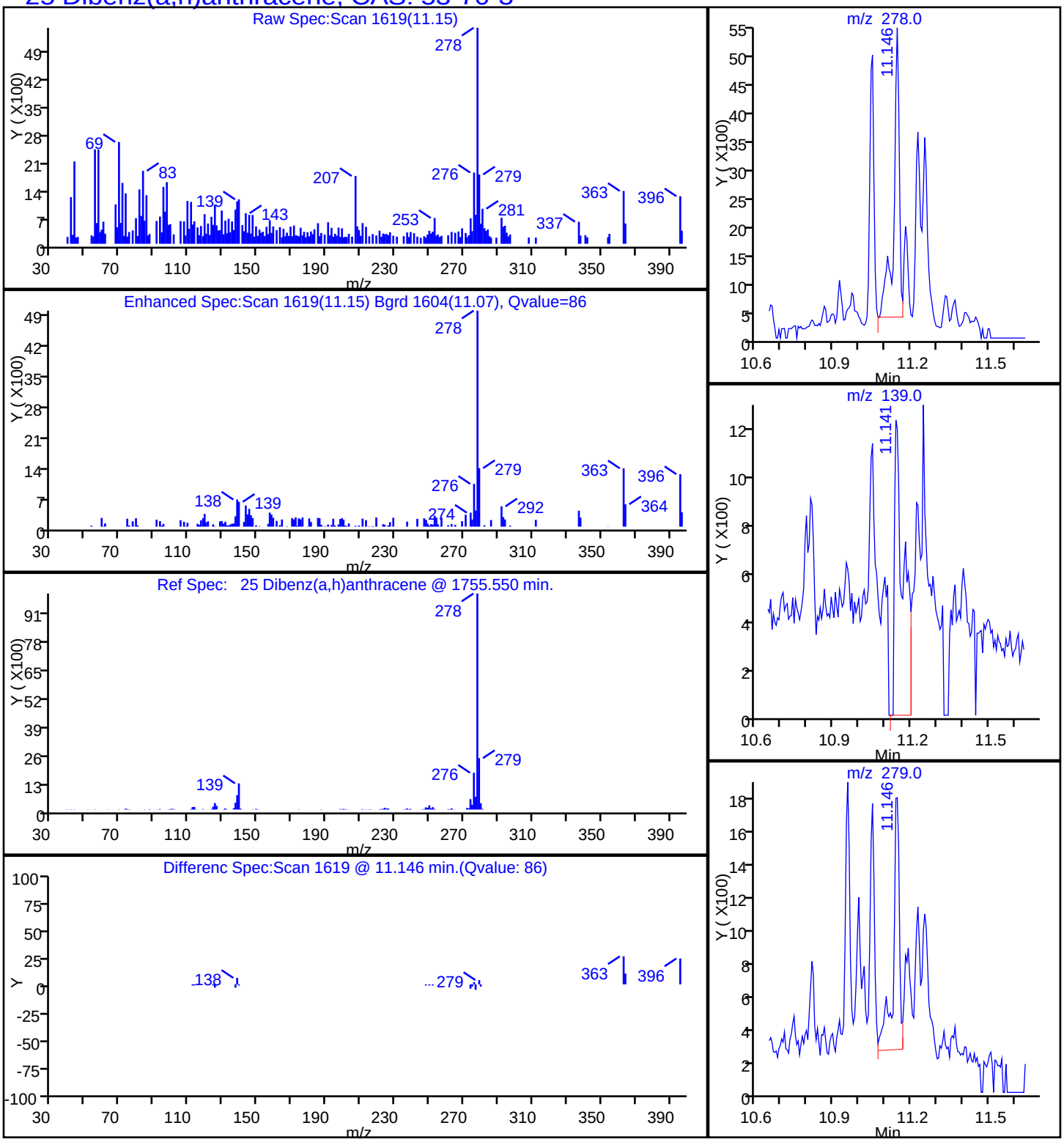


Report Date: 17-Oct-2014 14:22:06 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1612.D | | | | |
| Injection Date: | 16-Oct-2014 13:34:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-22-A | Lab Sample ID: | 680-106200-22 | | |
| Client ID: | CV0971WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 11 | Worklist Smp#: | 12 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

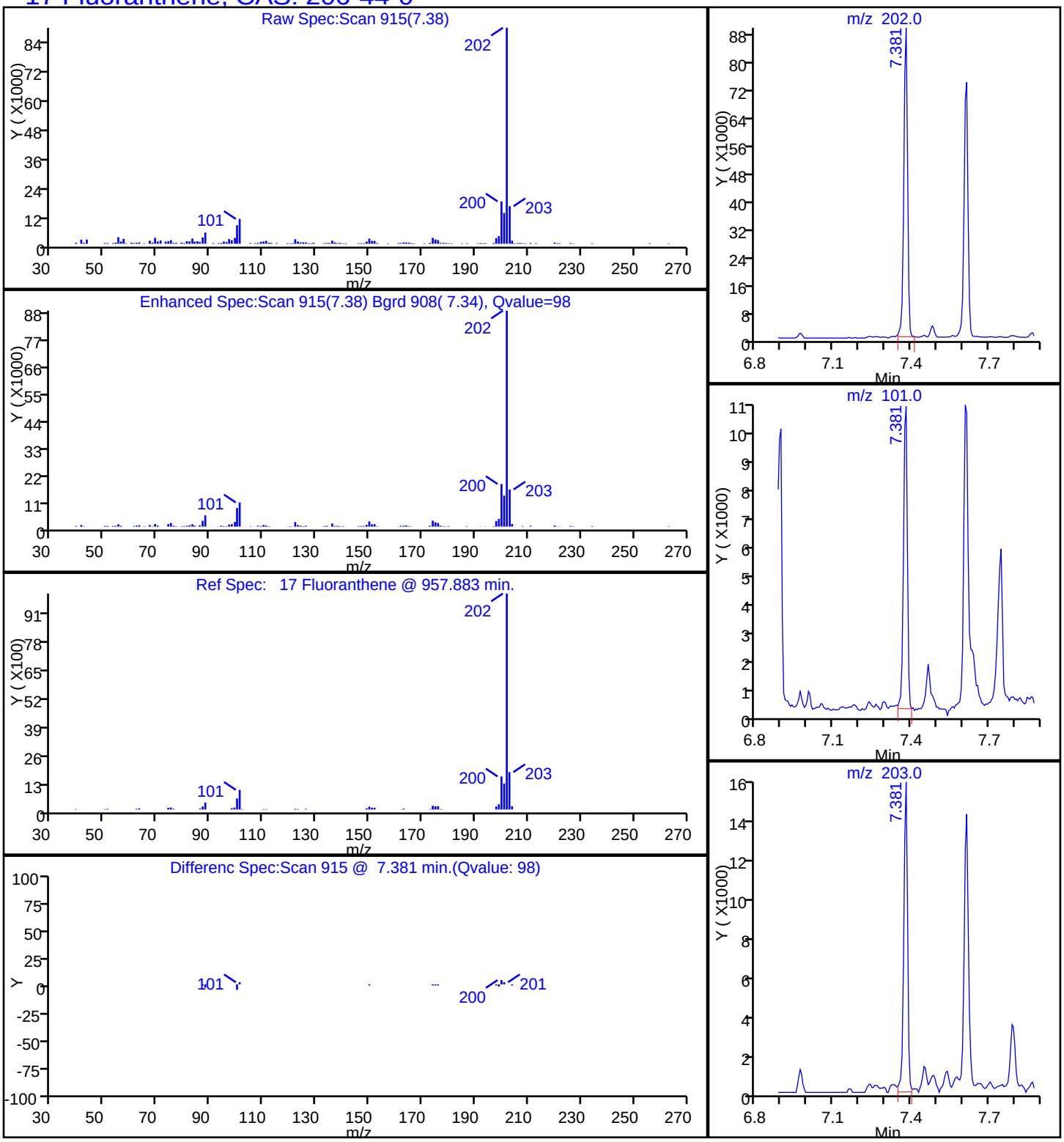


Report Date: 17-Oct-2014 14:22:06 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1612.D | | | | |
| Injection Date: | 16-Oct-2014 13:34:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-22-A | Lab Sample ID: | 680-106200-22 | | |
| Client ID: | CV0971WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 11 | Worklist Smp#: | 12 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

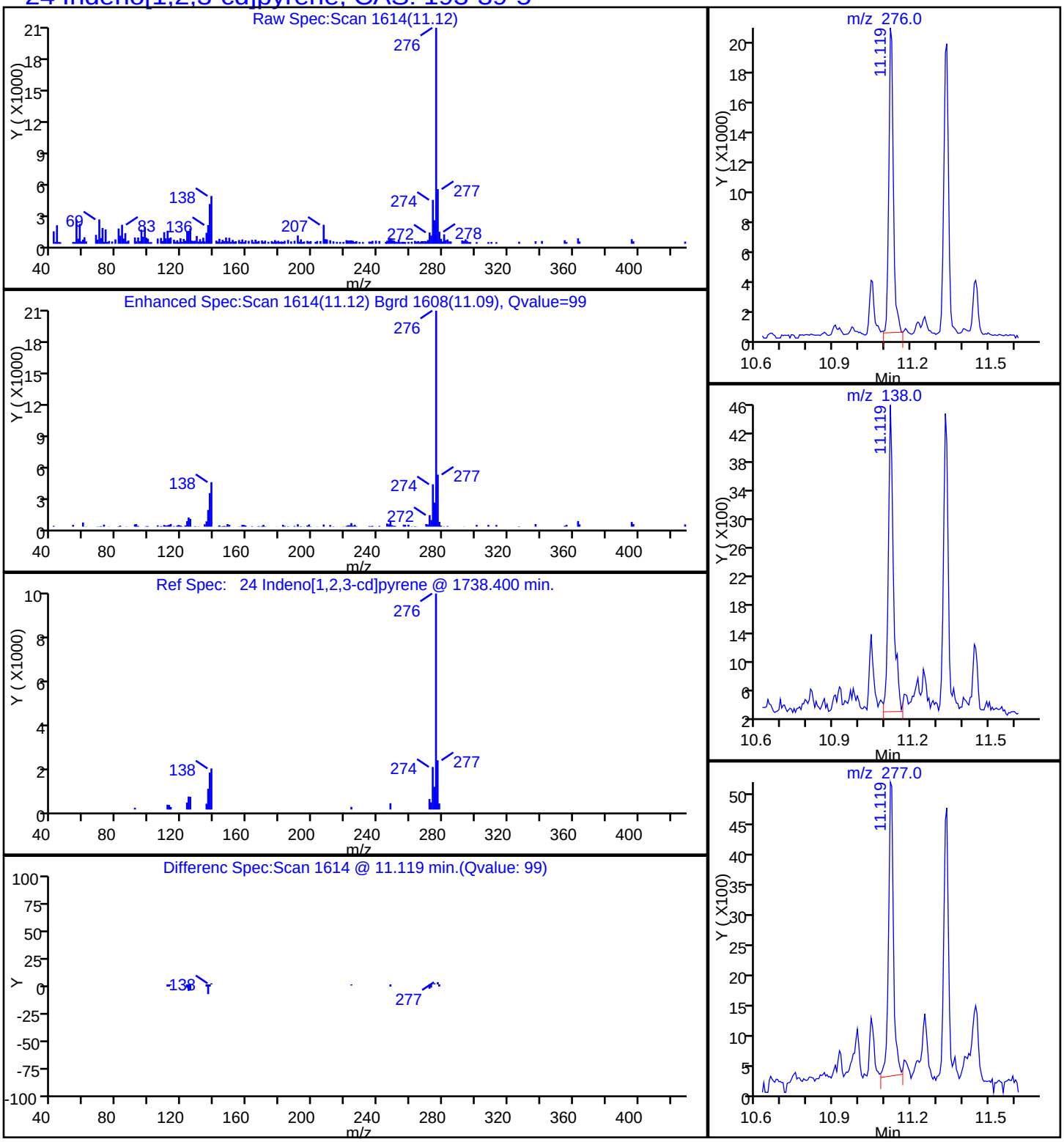


Report Date: 17-Oct-2014 14:22:06 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1612.D | | | | |
| Injection Date: | 16-Oct-2014 13:34:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-22-A | Lab Sample ID: | 680-106200-22 | | |
| Client ID: | CV0971WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 11 | Worklist Smp#: | 12 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

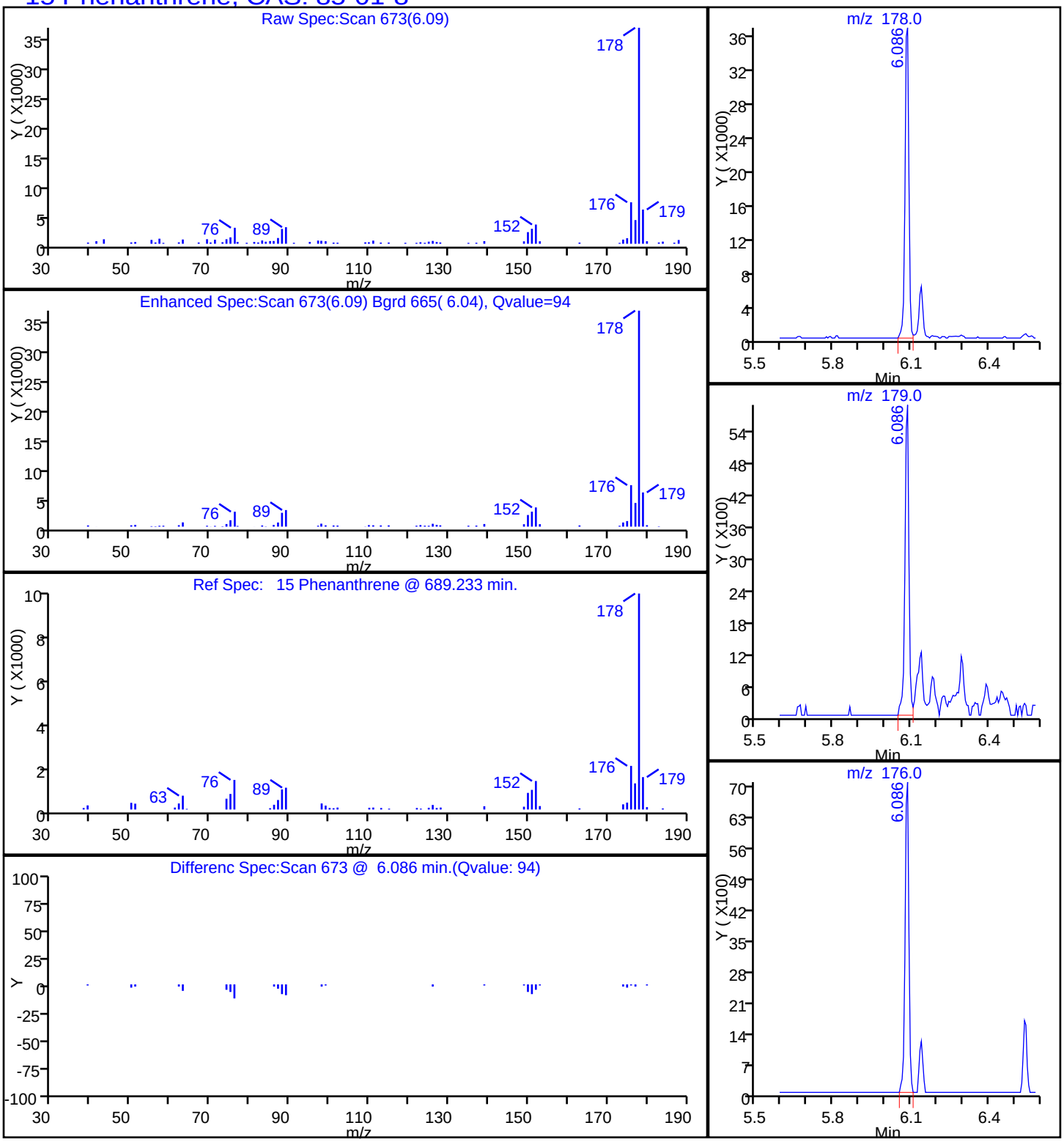


Report Date: 17-Oct-2014 14:22:06 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1612.D | | | | |
| Injection Date: | 16-Oct-2014 13:34:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-22-A | Lab Sample ID: | 680-106200-22 | | |
| Client ID: | CV0971WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 11 | Worklist Smp#: | 12 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 15 Phenanthrene, CAS: 85-01-8

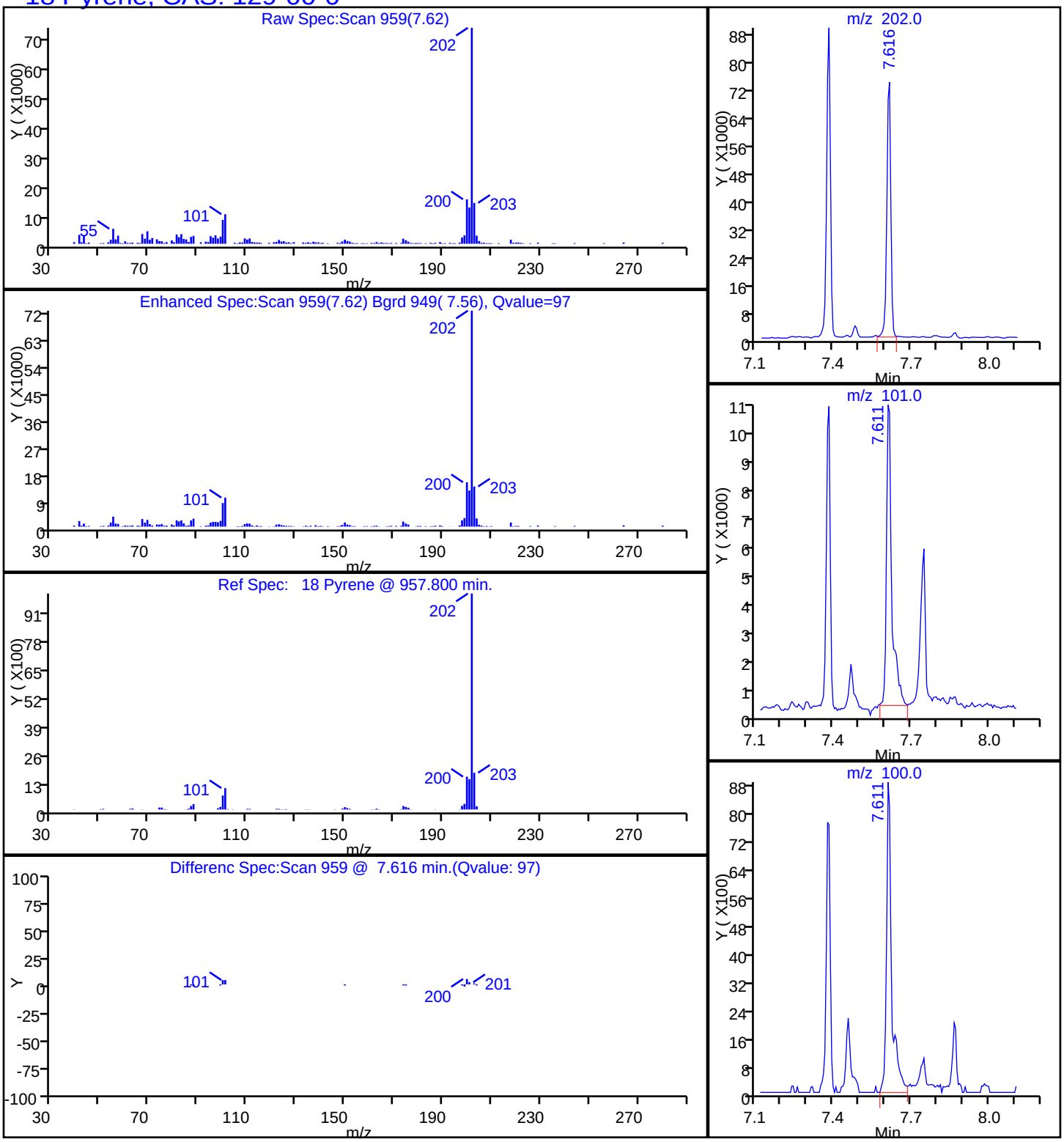


Report Date: 17-Oct-2014 14:22:06 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1612.D | | | | |
| Injection Date: | 16-Oct-2014 13:34:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-22-A | Lab Sample ID: | 680-106200-22 | | |
| Client ID: | CV0971WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 11 | Worklist Smp#: | 12 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 18 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

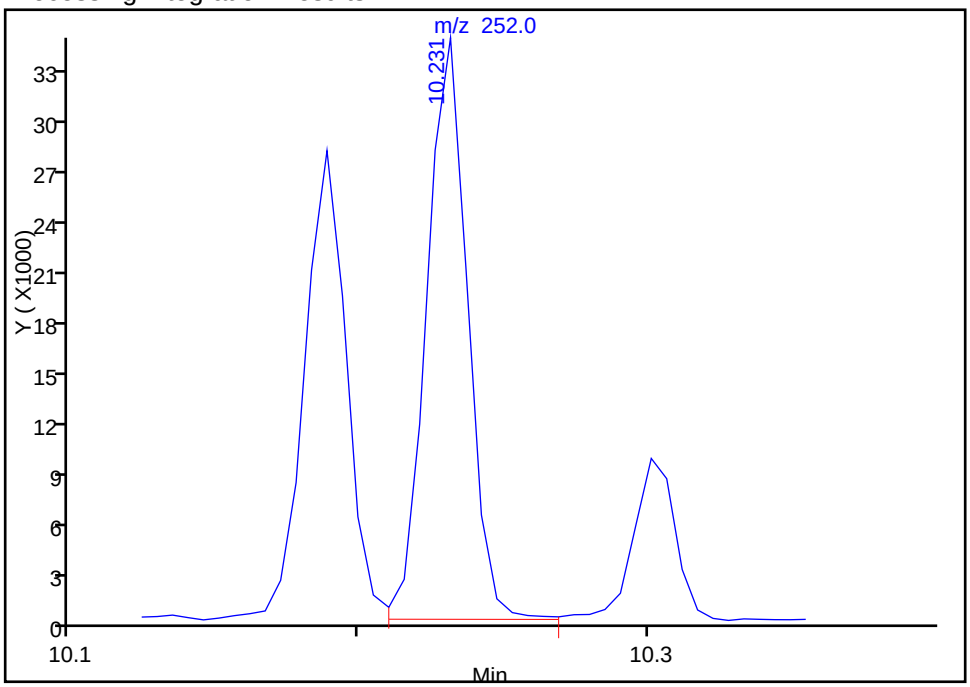
TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1612.D | | | | |
| Injection Date: | 16-Oct-2014 13:34:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-22-A | Lab Sample ID: | 680-106200-22 | | |
| Client ID: | CV0971WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 11 | Worklist Smp#: | 12 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

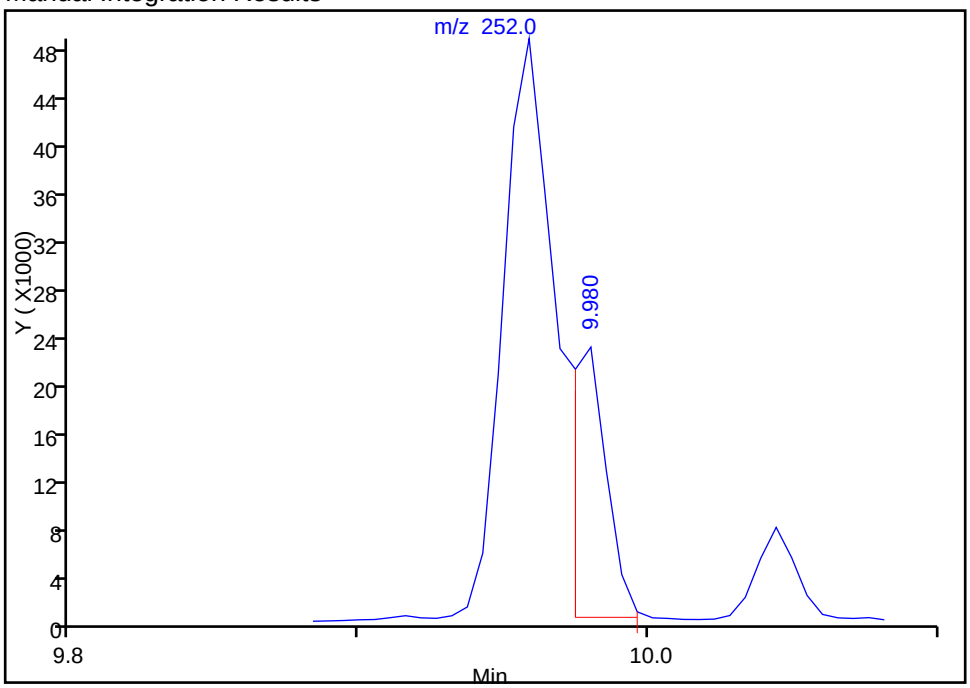
Processing Integration Results

RT: 10.23
Response: 34054
Amount: 0.574620




Manual Integration Results

RT: 9.98
Response: 18793
Amount: 0.316762




Reviewer: webbk, 17-Oct-2014 14:22:05
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0005AC-CS6 | Lab Sample ID: 680-106200-23

Matrix: Solid | Lab File ID: 1YJ1613.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 10:10

Extract. Method: 3546 | Date Extracted: 10/15/2014 10:01

Sample wt/vol: 30.05(g) | Date Analyzed: 10/16/2014 13:56

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353862 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 73 | U | 73 | 36 |
| 208-96-8 | Acenaphthylene | 73 | U | 73 | 36 |
| 120-12-7 | Anthracene | 73 | U | 73 | 36 |
| 56-55-3 | Benzo[a]anthracene | 180 | | 73 | 36 |
| 50-32-8 | Benzo[a]pyrene | 220 | | 73 | 13 |
| 205-99-2 | Benzo[b]fluoranthene | 360 | | 73 | 36 |
| 191-24-2 | Benzo[g,h,i]perylene | 180 | | 73 | 36 |
| 207-08-9 | Benzo[k]fluoranthene | 110 | | 73 | 22 |
| 218-01-9 | Chrysene | 240 | | 73 | 36 |
| 53-70-3 | Dibenz(a,h)anthracene | 64 | J | 73 | 36 |
| 206-44-0 | Fluoranthene | 270 | | 73 | 36 |
| 86-73-7 | Fluorene | 73 | U | 73 | 36 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 140 | | 73 | 36 |
| 90-12-0 | 1-Methylnaphthalene | 52 | J | 73 | 34 |
| 91-57-6 | 2-Methylnaphthalene | 59 | J | 73 | 36 |
| 91-20-3 | Naphthalene | 42 | J | 73 | 36 |
| 85-01-8 | Phenanthrene | 170 | | 73 | 26 |
| 129-00-0 | Pyrene | 290 | | 73 | 36 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 0 | D | 36-131 |

TestAmerica Savannah
Target Compound Quantitation Report

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1613.D | | | | |
| Lims ID: | 680-106200-A-23-A | Lab Sample ID: | 680-106200-23 | | |
| Client ID: | CV0005AC-CS6 | | | | |
| Sample Type: | Client | | | | |
| Inject. Date: | 16-Oct-2014 13:56:30 | ALS Bottle#: | 12 | Worklist Smp#: | 13 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Sample Info: | 106200-A-23-A 1:10 | | | | |
| Misc. Info.: | 680-0013814-013 | | | | |
| Operator ID: | RM | Instrument ID: | CMSY | | |

| | | | |
|---|---|---|---|
| Method: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\8270D_LLPAH_MSY.m | | |
| Limit Group: | 8270D_LL_PAH | | |
| Last Update: | 17-Oct-2014 08:59:05 | Calib Date: | 07-Oct-2014 15:41:30 |
| Integrator: | RTE | ID Type: | RT Order ID |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D | | |

| | | |
|---|---|---|
| Column 1 : | Restek RXi-5Sil MS ( 0.25 mm) | Det: MS SCAN |
| Process Host: | XAWRK009 | |

First Level Reviewer: webbk Date: 16-Oct-2014 14:41:05

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.802 | 2.803 | -0.001 | 98 | 133055 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.493 | 4.487 | 0.006 | 91 | 74101 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.060 | 6.054 | 0.006 | 97 | 121492 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 8.932 | 8.927 | 0.005 | 99 | 96035 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.280 | 10.269 | 0.011 | 98 | 81558 | 2.00 | |
| 7 Naphthalene | 128 | 2.824 | 2.819 | 0.005 | 71 | 8348 | 0.1150 | |
| 8 2-Methylnaphthalene | 142 | 3.460 | 3.455 | 0.005 | 69 | 7885 | 0.1638 | |
| 9 1-Methylnaphthalene | 142 | 3.551 | 3.546 | 0.005 | 42 | 6385 | 0.1431 | |
| 15 Phenanthrene | 178 | 6.086 | 6.081 | 0.005 | 87 | 33484 | 0.4605 | |
| 16 Anthracene | 178 | 6.140 | 6.135 | 0.005 | 73 | 5215 | 0.0721 | |
| 17 Fluoranthene | 202 | 7.381 | 7.376 | 0.005 | 98 | 57621 | 0.7477 | |
| 18 Pyrene | 202 | 7.611 | 7.606 | 0.005 | 97 | 50465 | 0.8030 | |
| 19 Benzo[a]anthracene | 228 | 8.921 | 8.916 | 0.005 | 87 | 27354 | 0.4870 | |
| 20 Chrysene | 228 | 8.953 | 8.953 | 0.000 | 95 | 35706 | 0.6678 | |
| 21 Benzo[b]fluoranthene | 252 | 9.959 | 9.948 | 0.011 | 97 | 53788 | 1.00 | |
| 22 Benzo[k]fluoranthene | 252 | 9.975 | 9.975 | 0.000 | 99 | 15170 | 0.2912 | M |
| 23 Benzo[a]pyrene | 252 | 10.232 | 10.221 | 0.011 | 96 | 27150 | 0.6154 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.125 | 11.109 | 0.016 | 96 | 20848 | 0.3954 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.146 | 11.136 | 0.010 | 81 | 6771 | 0.1756 | |
| 26 Benzo[g,h,i]perylene | 276 | 11.339 | 11.323 | 0.016 | 87 | 20270 | 0.5040 | |

## QC Flag Legend

Review Flags

M - Manually Integrated

## Reagents:

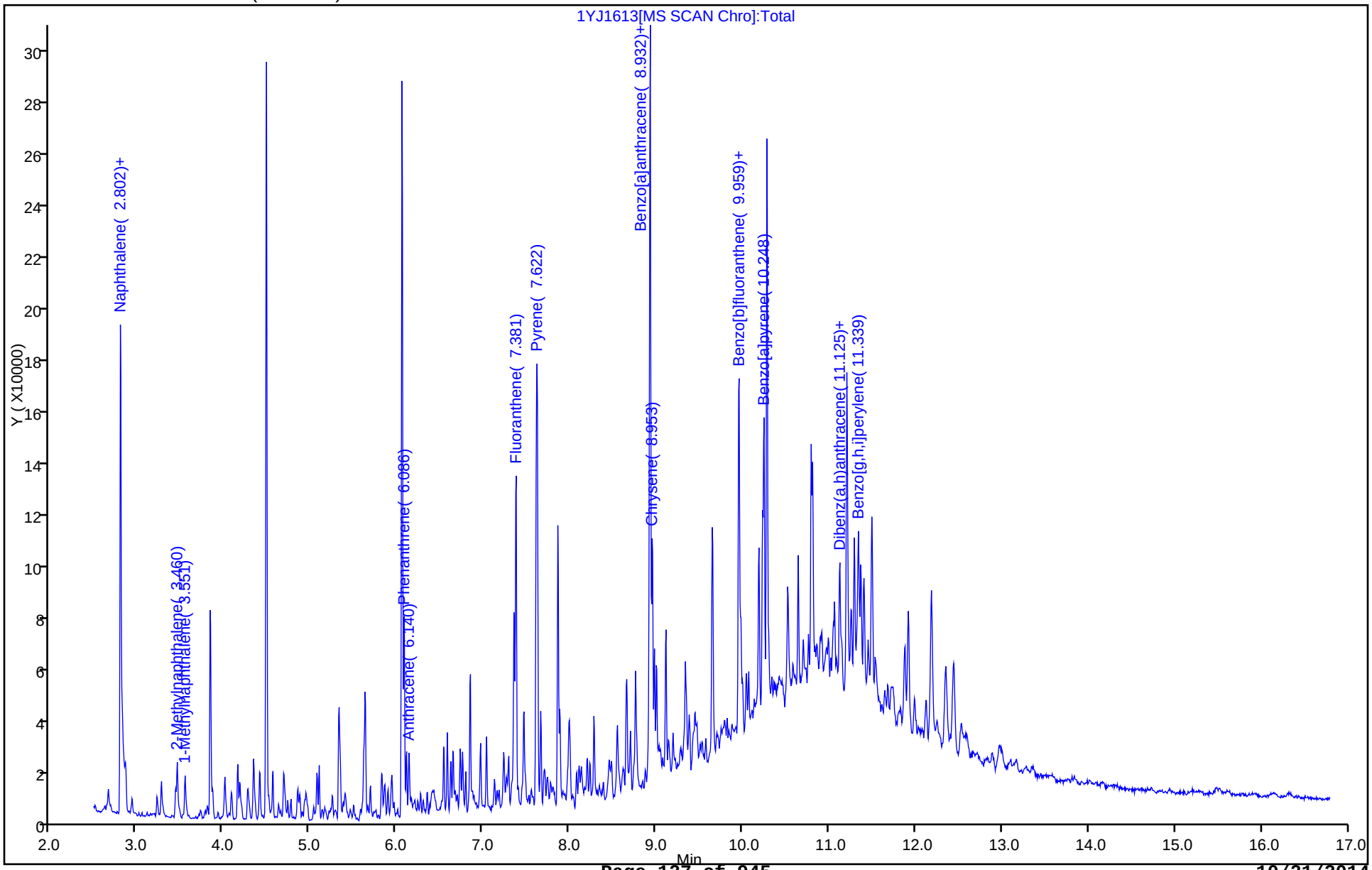
SM-LLISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 17-Oct-2014 08:59:18 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1613.D | | | | |
| Injection Date: | 16-Oct-2014 13:56:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | 680-106200-A-23-A | Lab Sample ID: | 680-106200-23 | Worklist Smp#: | 13 |
| Client ID: | CV0005AC-CS6 | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | ALS Bottle#: | 12 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)

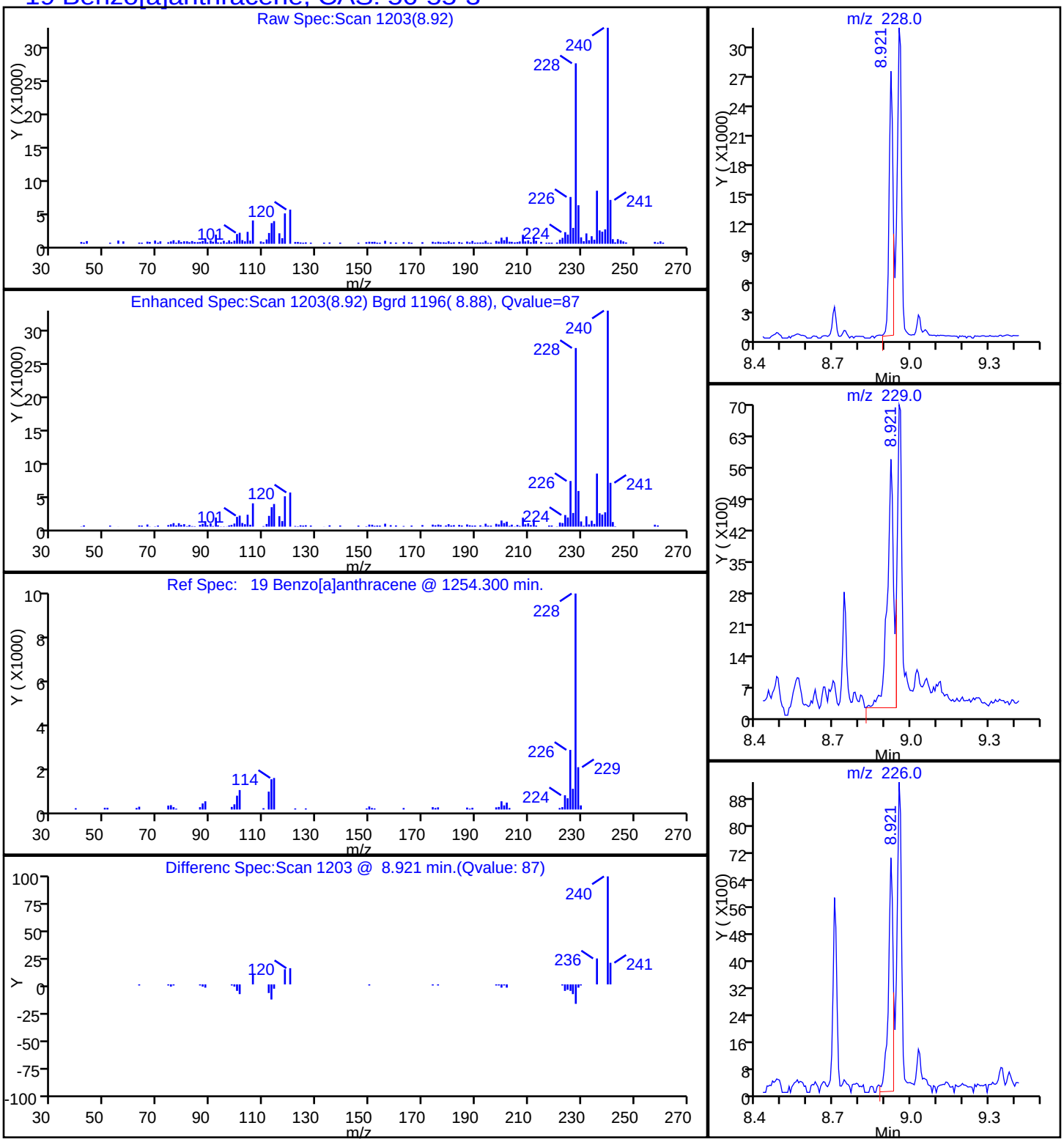


Report Date: 17-Oct-2014 08:59:19 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1613.D | | | | |
| Injection Date: | 16-Oct-2014 13:56:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-23-A | Lab Sample ID: | 680-106200-23 | | |
| Client ID: | CV0005AC-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 12 | Worklist Smp#: | 13 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

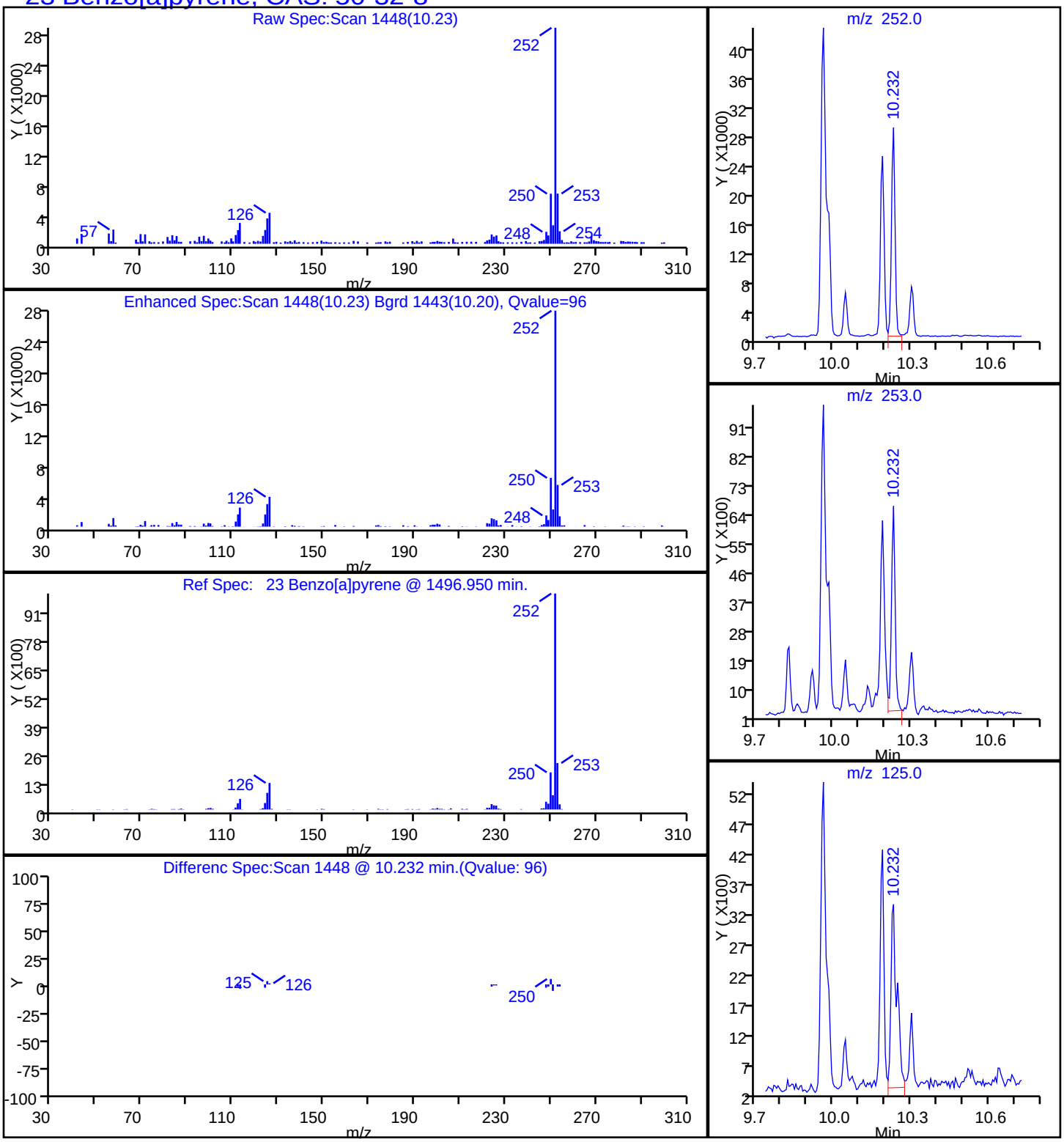


Report Date: 17-Oct-2014 08:59:19 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1613.D | | | | |
| Injection Date: | 16-Oct-2014 13:56:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-23-A | Lab Sample ID: | 680-106200-23 | | |
| Client ID: | CV0005AC-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 12 | Worklist Smp#: | 13 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

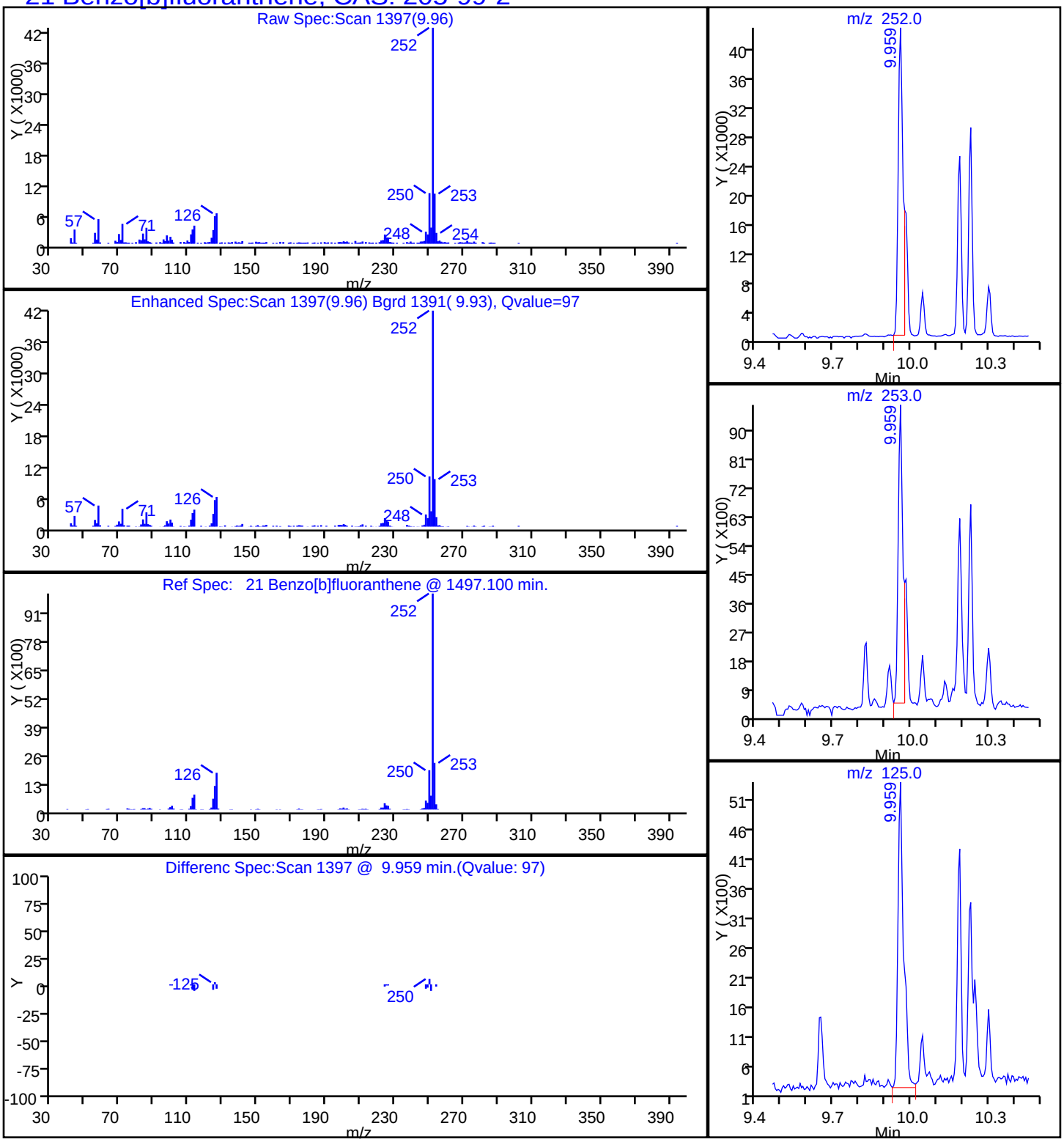


Report Date: 17-Oct-2014 08:59:19 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1613.D | | | | |
| Injection Date: | 16-Oct-2014 13:56:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-23-A | Lab Sample ID: | 680-106200-23 | | |
| Client ID: | CV0005AC-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 12 | Worklist Smp#: | 13 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

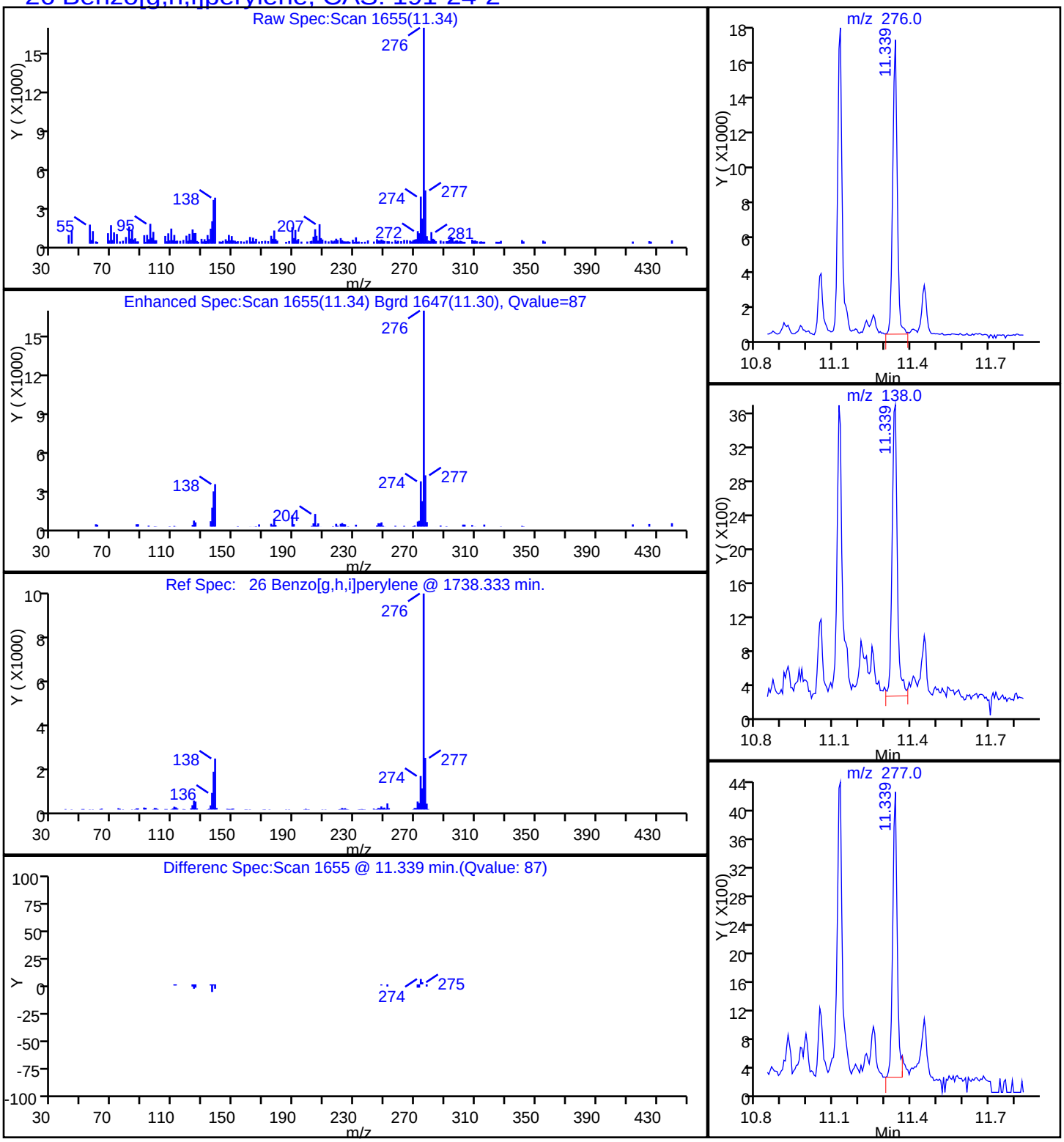


Report Date: 17-Oct-2014 08:59:19 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1613.D | | | | |
| Injection Date: | 16-Oct-2014 13:56:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-23-A | Lab Sample ID: | 680-106200-23 | | |
| Client ID: | CV0005AC-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 12 | Worklist Smp#: | 13 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

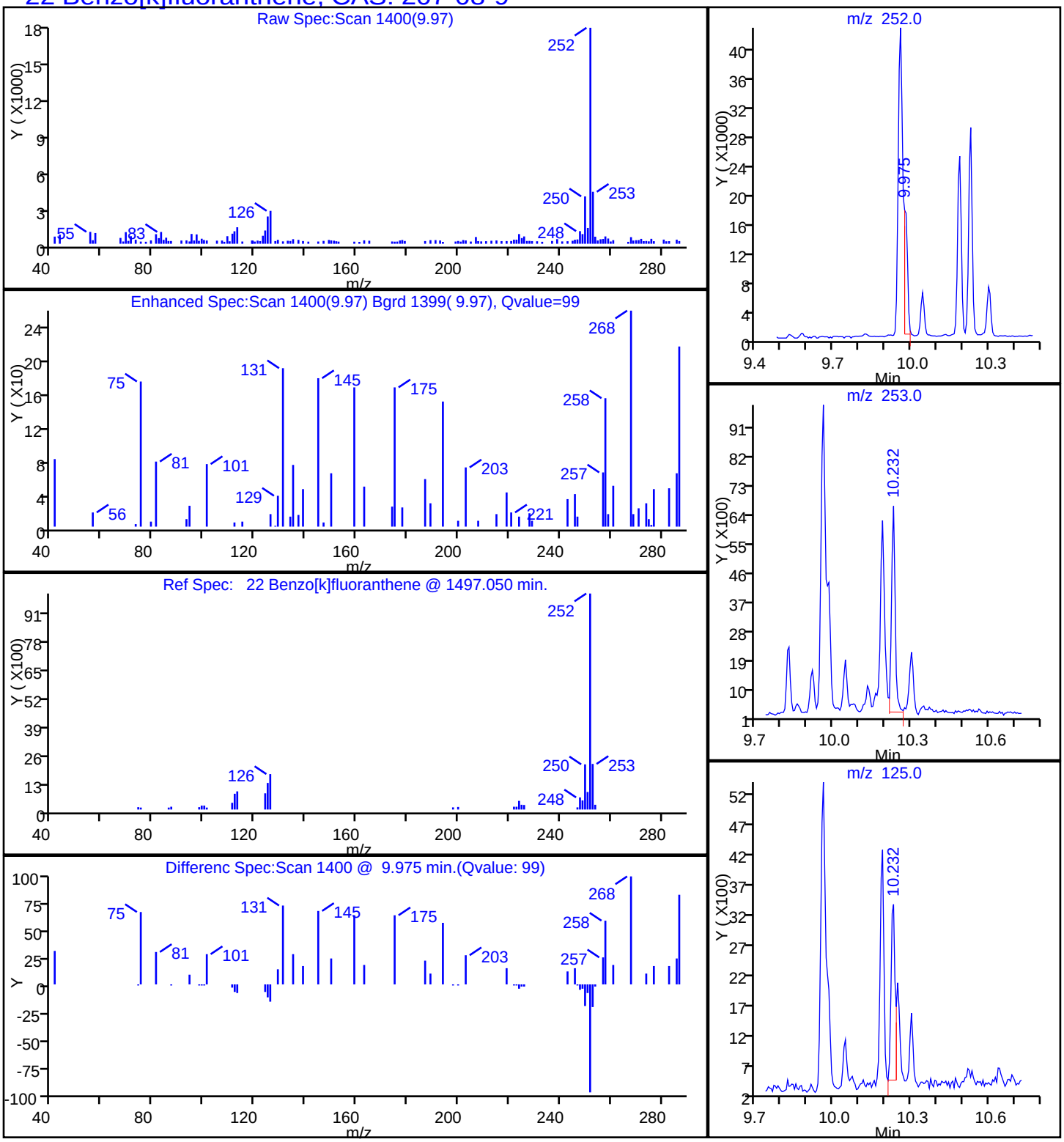


Report Date: 17-Oct-2014 08:59:19 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1613.D | | | | |
| Injection Date: | 16-Oct-2014 13:56:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-23-A | Lab Sample ID: | 680-106200-23 | | |
| Client ID: | CV0005AC-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 12 | Worklist Smp#: | 13 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

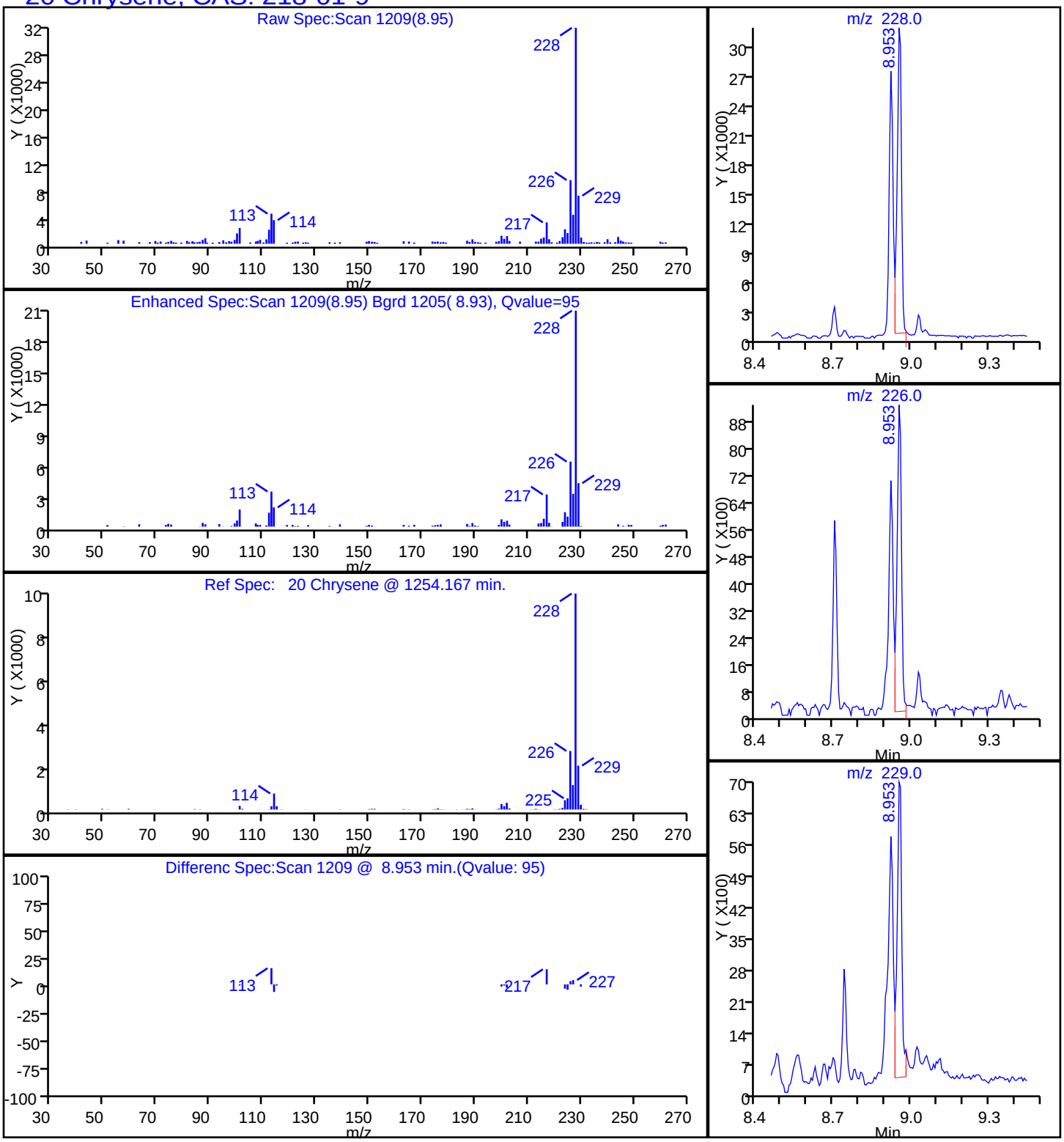


Report Date: 17-Oct-2014 08:59:19 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1613.D | | | | |
| Injection Date: | 16-Oct-2014 13:56:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-23-A | Lab Sample ID: | 680-106200-23 | | |
| Client ID: | CV0005AC-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 12 | Worklist Smp#: | 13 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 20 Chrysene, CAS: 218-01-9

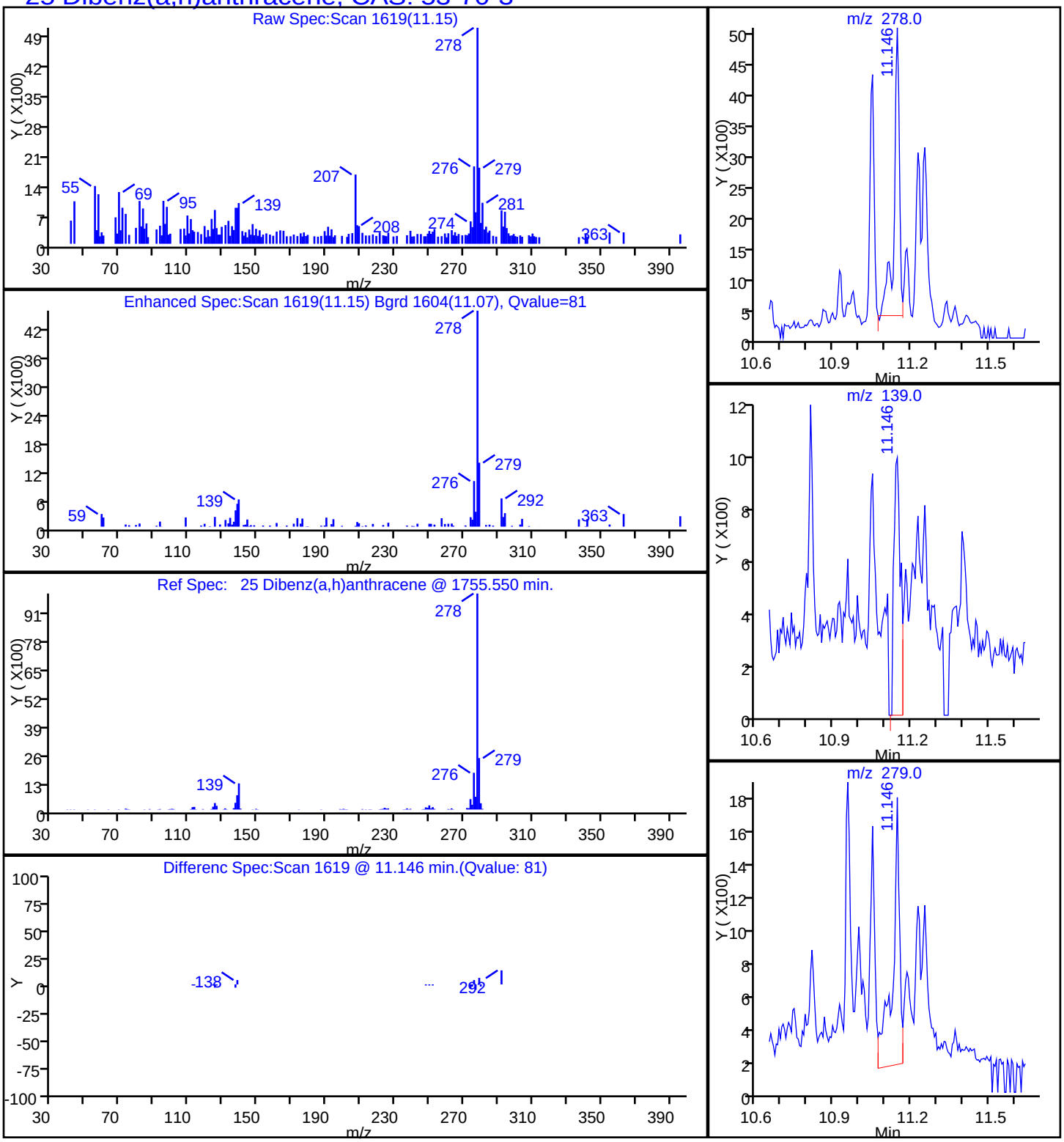


Report Date: 17-Oct-2014 08:59:19 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1613.D | | | | |
| Injection Date: | 16-Oct-2014 13:56:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-23-A | Lab Sample ID: | 680-106200-23 | | |
| Client ID: | CV0005AC-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 12 | Worklist Smp#: | 13 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

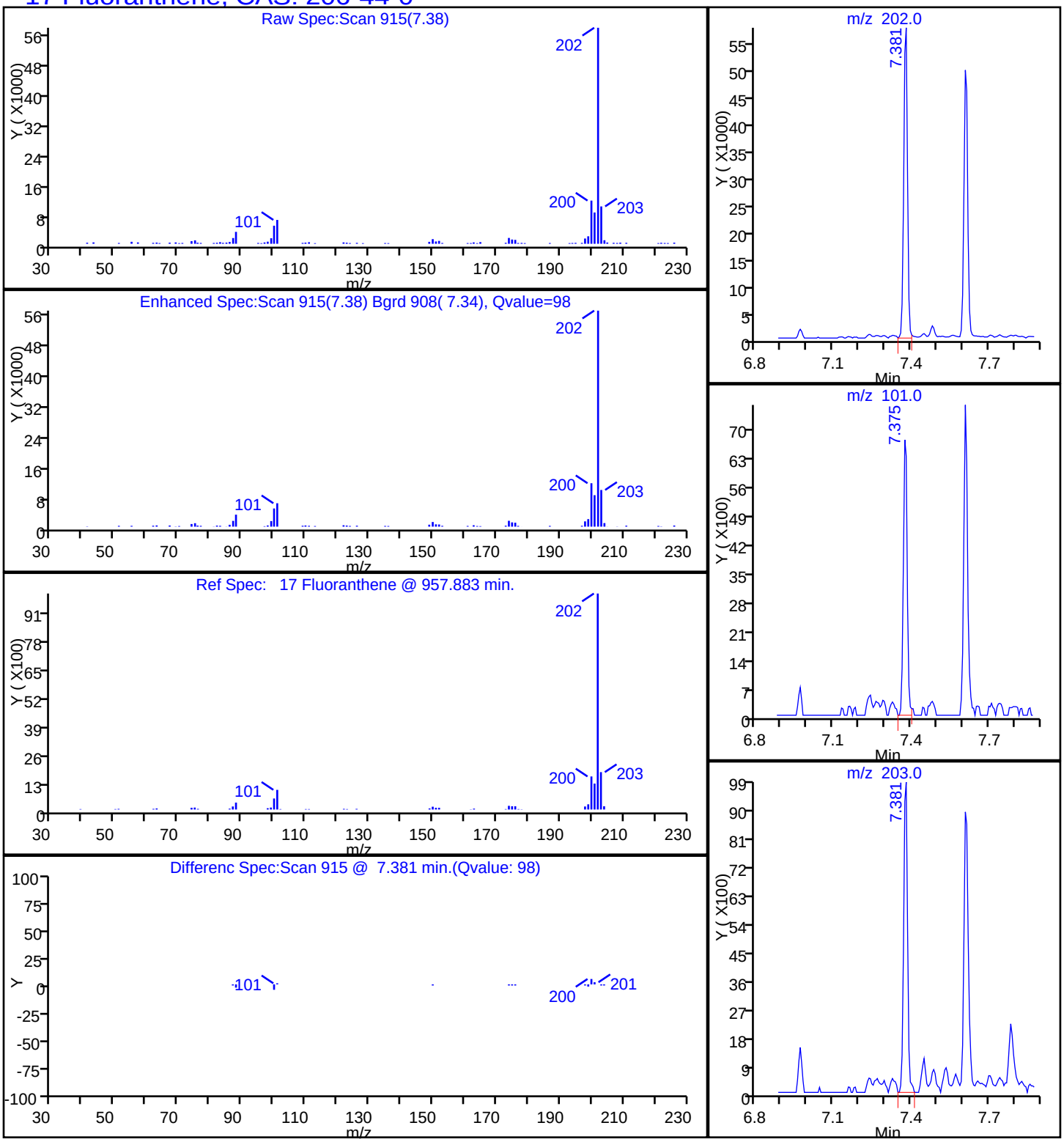


Report Date: 17-Oct-2014 08:59:19 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1613.D | | | | |
| Injection Date: | 16-Oct-2014 13:56:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-23-A | Lab Sample ID: | 680-106200-23 | | |
| Client ID: | CV0005AC-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 12 | Worklist Smp#: | 13 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

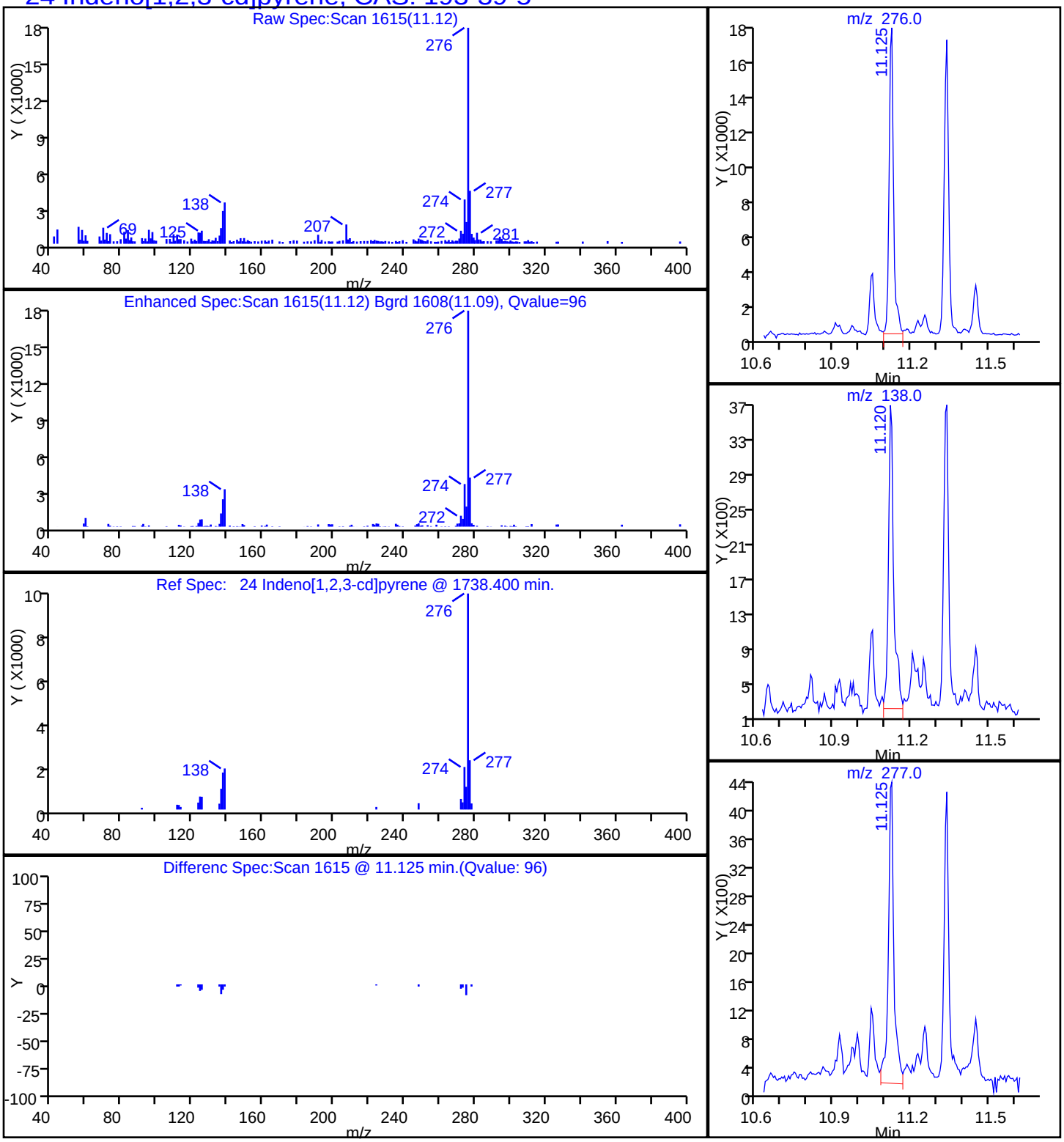


Report Date: 17-Oct-2014 08:59:19 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1613.D | | | | |
| Injection Date: | 16-Oct-2014 13:56:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-23-A | Lab Sample ID: | 680-106200-23 | | |
| Client ID: | CV0005AC-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 12 | Worklist Smp#: | 13 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

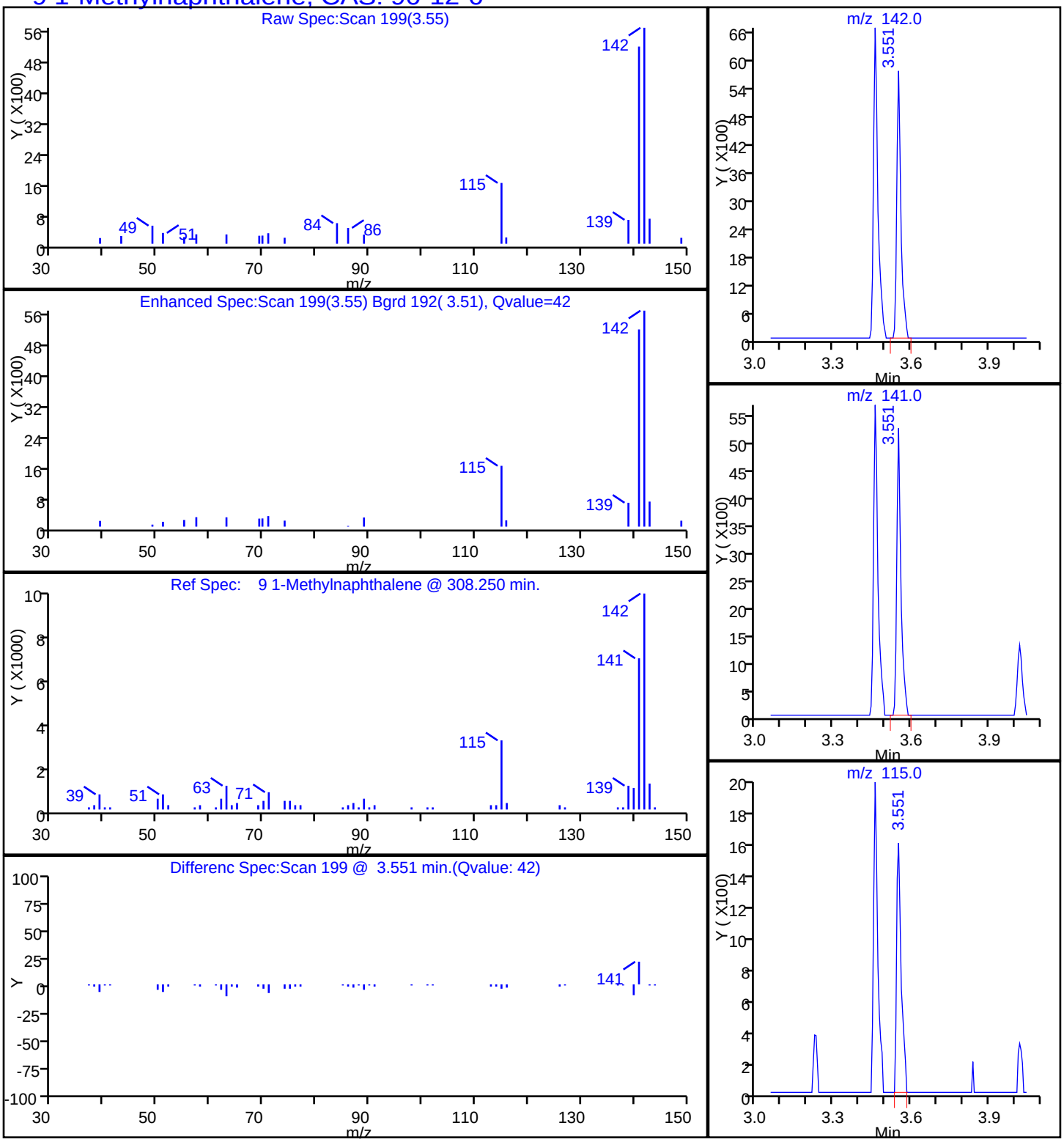


Report Date: 17-Oct-2014 08:59:19 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1613.D | | | | |
| Injection Date: | 16-Oct-2014 13:56:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-23-A | Lab Sample ID: | 680-106200-23 | | |
| Client ID: | CV0005AC-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 12 | Worklist Smp#: | 13 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 9 1-Methylnaphthalene, CAS: 90-12-0

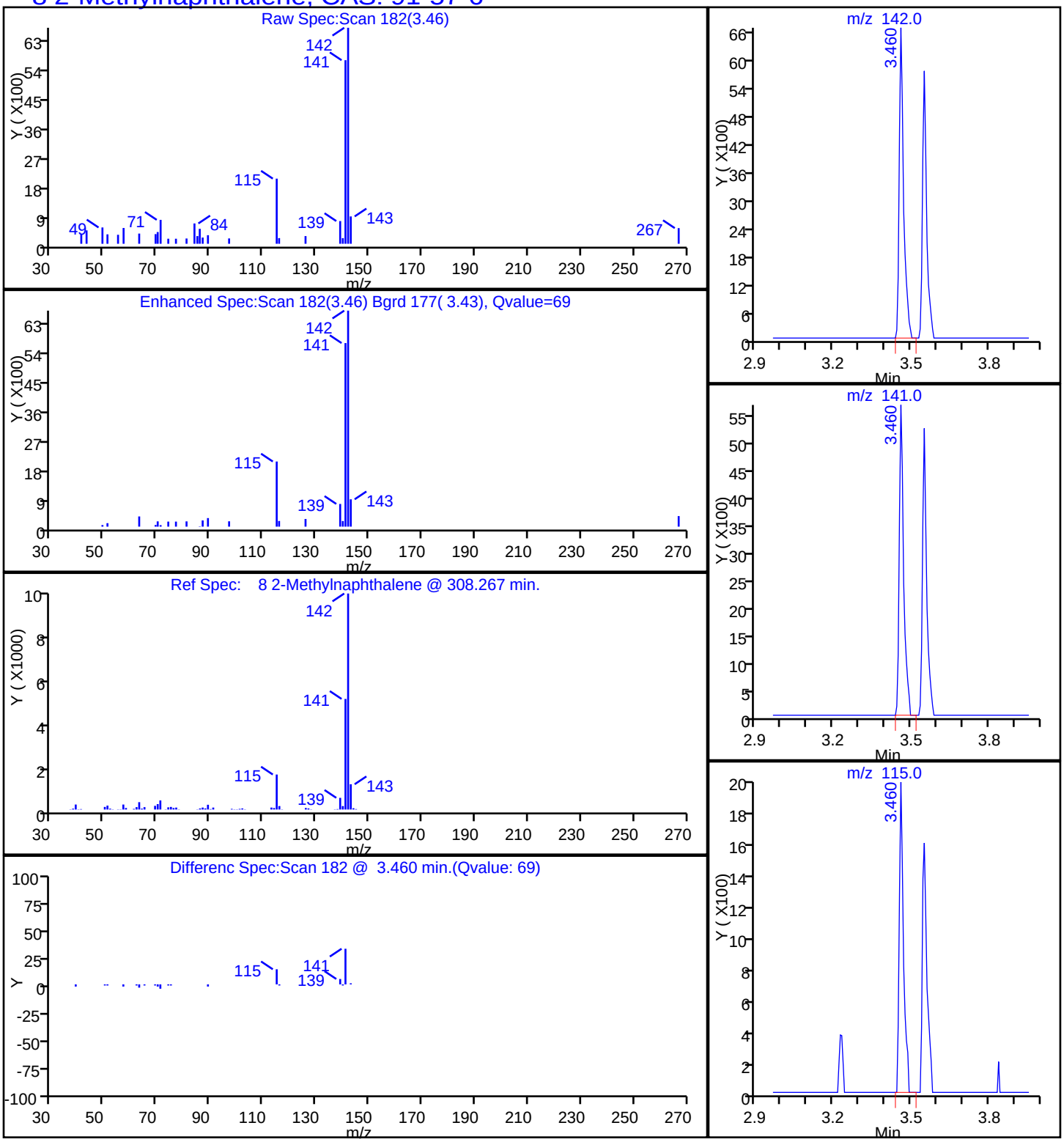


Report Date: 17-Oct-2014 08:59:19 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1613.D | | | | |
| Injection Date: | 16-Oct-2014 13:56:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-23-A | Lab Sample ID: | 680-106200-23 | | |
| Client ID: | CV0005AC-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 12 | Worklist Smp#: | 13 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 8 2-Methylnaphthalene, CAS: 91-57-6

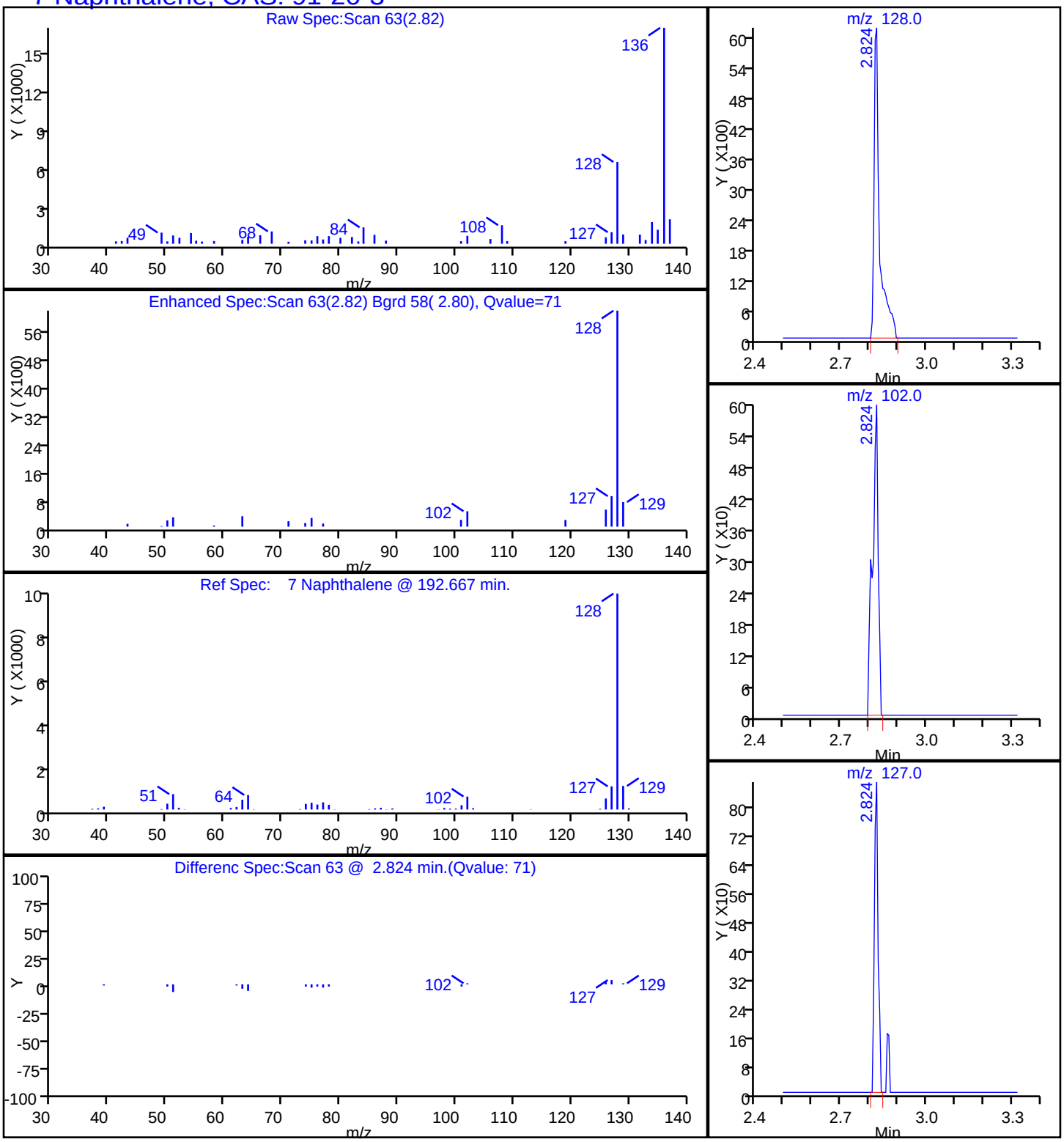


Report Date: 17-Oct-2014 08:59:19 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1613.D | | | | |
| Injection Date: | 16-Oct-2014 13:56:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-23-A | Lab Sample ID: | 680-106200-23 | | |
| Client ID: | CV0005AC-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 12 | Worklist Smp#: | 13 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 7 Naphthalene, CAS: 91-20-3

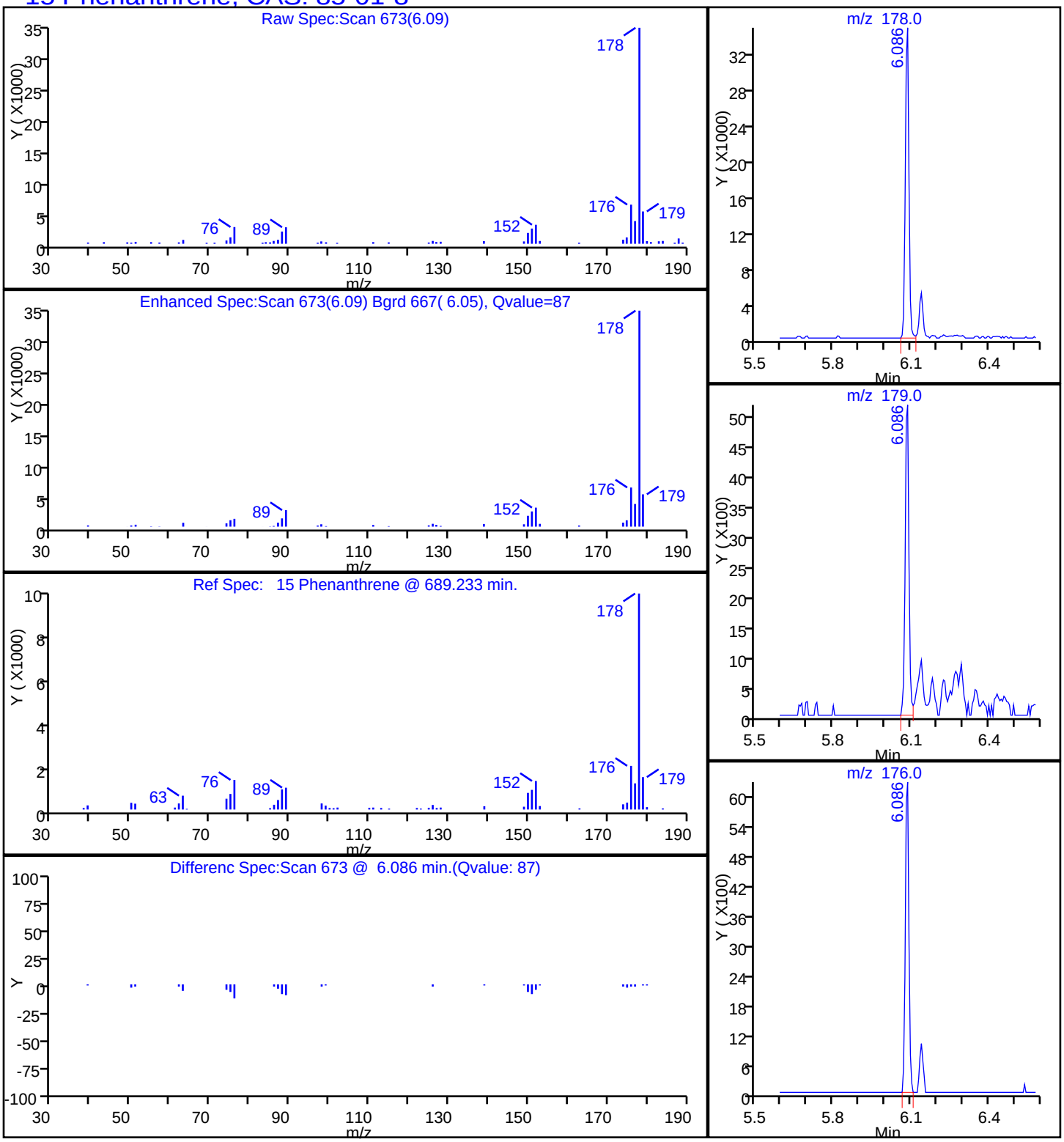


Report Date: 17-Oct-2014 08:59:19 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1613.D | | | | |
| Injection Date: | 16-Oct-2014 13:56:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-23-A | Lab Sample ID: | 680-106200-23 | | |
| Client ID: | CV0005AC-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 12 | Worklist Smp#: | 13 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 15 Phenanthrene, CAS: 85-01-8

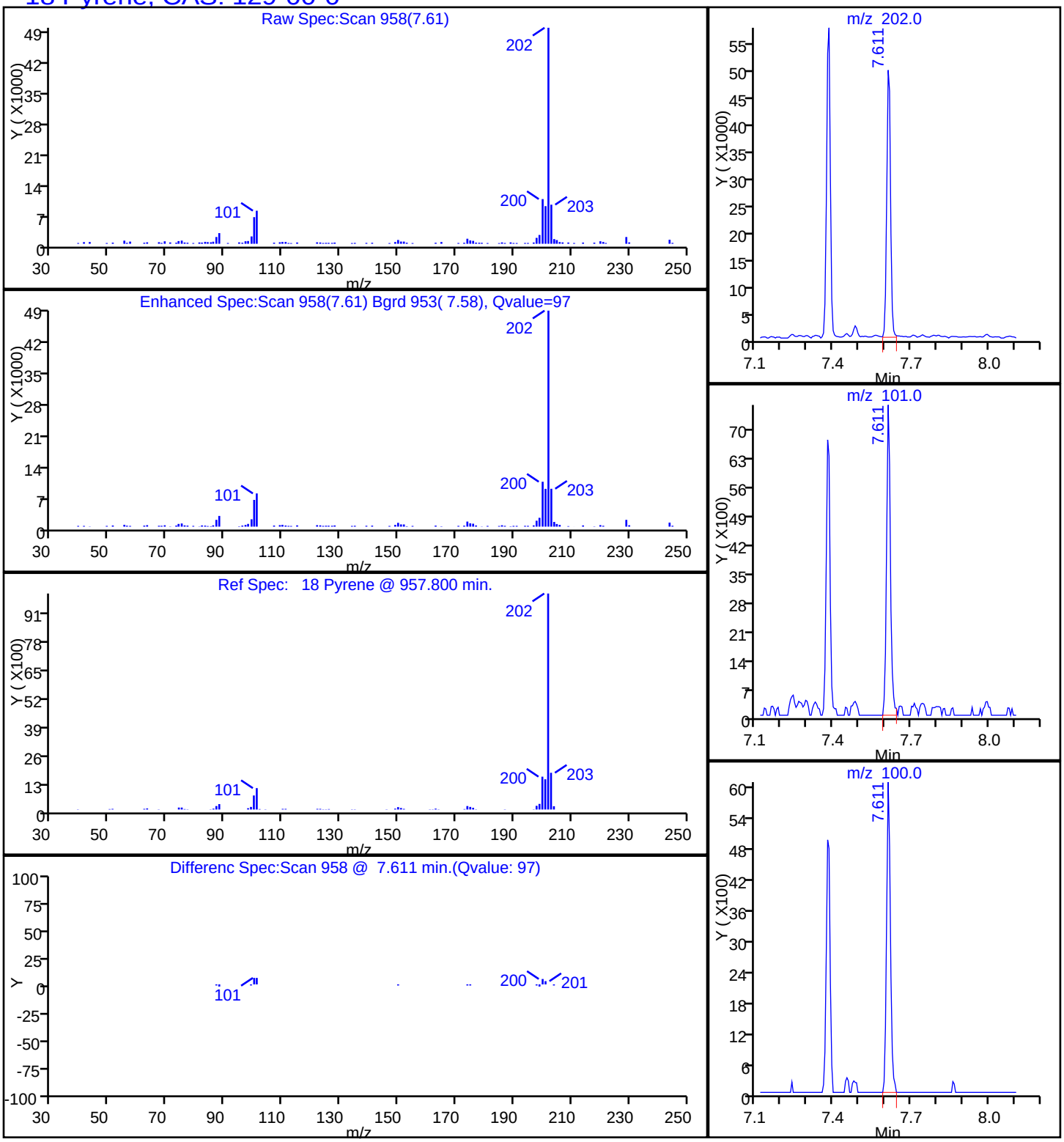


Report Date: 17-Oct-2014 08:59:19 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1613.D | | | | |
| Injection Date: | 16-Oct-2014 13:56:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-23-A | Lab Sample ID: | 680-106200-23 | | |
| Client ID: | CV0005AC-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 12 | Worklist Smp#: | 13 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 18 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

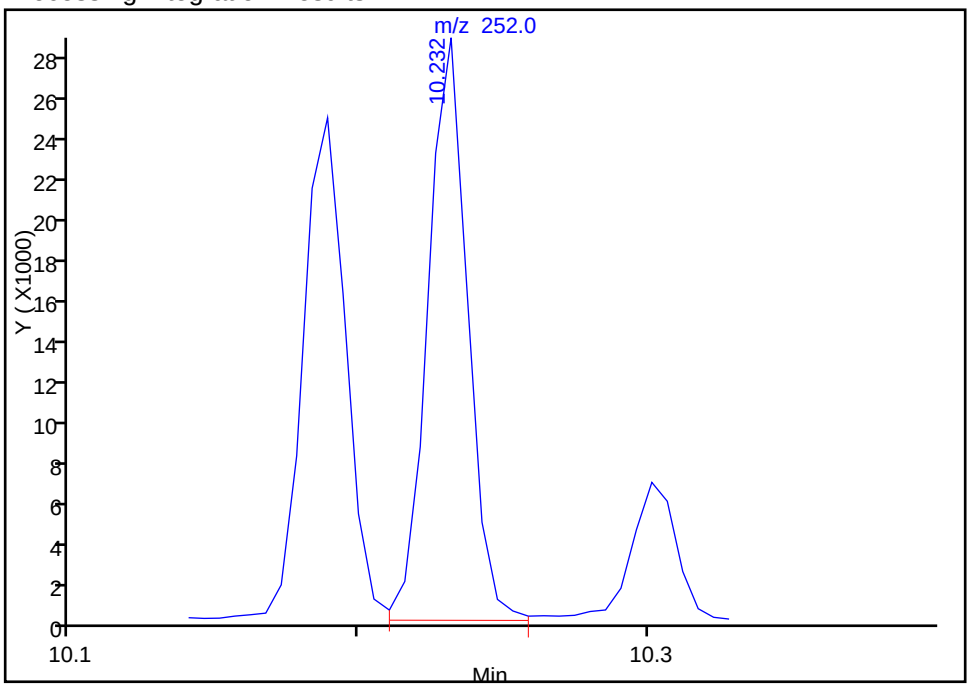
TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1613.D | | | | |
| Injection Date: | 16-Oct-2014 13:56:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-23-A | Lab Sample ID: | 680-106200-23 | | |
| Client ID: | CV0005AC-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 12 | Worklist Smp#: | 13 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

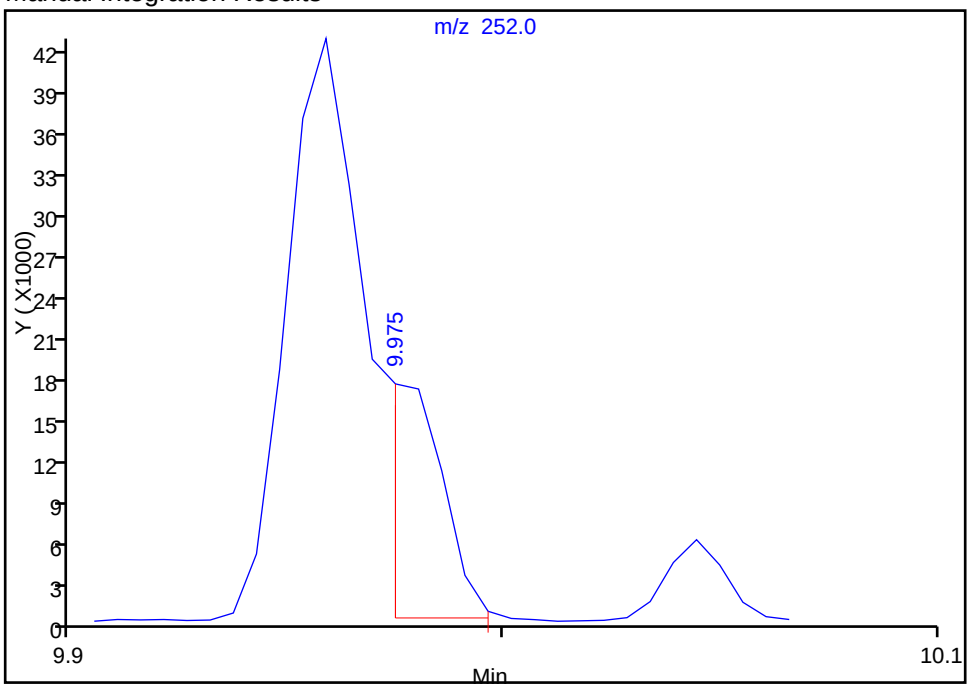
Processing Integration Results

RT: 10.23
Response: 27158
Amount: 0.521808




Manual Integration Results

RT: 9.97
Response: 15170
Amount: 0.291187




Reviewer: webbk, 16-Oct-2014 14:41:05
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0005AC-CS12 | Lab Sample ID: 680-106200-24

Matrix: Solid | Lab File ID: 1YJ1614.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 10:20

Extract. Method: 3546 | Date Extracted: 10/15/2014 10:01

Sample wt/vol: 30.05(g) | Date Analyzed: 10/16/2014 14:19

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 13.4 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353862 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 7.7 | U | 7.7 | 3.8 |
| 208-96-8 | Acenaphthylene | 7.7 | U | 7.7 | 3.8 |
| 120-12-7 | Anthracene | 7.7 | U | 7.7 | 3.8 |
| 56-55-3 | Benzo[a]anthracene | 22 | | 7.7 | 3.8 |
| 50-32-8 | Benzo[a]pyrene | 15 | | 7.7 | 1.4 |
| 205-99-2 | Benzo[b]fluoranthene | 23 | | 7.7 | 3.8 |
| 191-24-2 | Benzo[g,h,i]perylene | 8.9 | | 7.7 | 3.8 |
| 207-08-9 | Benzo[k]fluoranthene | 7.9 | | 7.7 | 2.3 |
| 218-01-9 | Chrysene | 20 | | 7.7 | 3.8 |
| 53-70-3 | Dibenz(a,h)anthracene | 4.7 | J | 7.7 | 3.8 |
| 206-44-0 | Fluoranthene | 35 | | 7.7 | 3.8 |
| 86-73-7 | Fluorene | 7.7 | U | 7.7 | 3.8 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 7.4 | J | 7.7 | 3.8 |
| 90-12-0 | 1-Methylnaphthalene | 7.7 | U | 7.7 | 3.6 |
| 91-57-6 | 2-Methylnaphthalene | 7.7 | U | 7.7 | 3.8 |
| 91-20-3 | Naphthalene | 7.7 | U | 7.7 | 3.8 |
| 85-01-8 | Phenanthrene | 9.5 | | 7.7 | 2.8 |
| 129-00-0 | Pyrene | 32 | | 7.7 | 3.8 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 94 | | 36-131 |

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1614.D
Lims ID: 680-106200-A-24-A Lab Sample ID: 680-106200-24
Client ID: CV0005AC-CS12
Sample Type: Client
Inject. Date: 16-Oct-2014 14:19:30 ALS Bottle#: 13 Worklist Smp#: 14
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 106200-A-24-A
Misc. Info.: 680-0013814-014
Operator ID: RM Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141016-13814.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 17-Oct-2014 08:59:05 Calib Date: 07-Oct-2014 15:41:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 16-Oct-2014 14:42:09

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.802 | 2.803 | -0.001 | 98 | 147634 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.493 | 4.487 | 0.006 | 90 | 84965 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.060 | 6.054 | 0.006 | 98 | 144249 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 8.932 | 8.927 | 0.005 | 99 | 125759 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.285 | 10.269 | 0.016 | 98 | 102182 | 2.00 | |
| $ 6 o-Terphenyl | 230 | 6.546 | 6.541 | 0.005 | 90 | 75774 | 1.88 | |
| 15 Phenanthrene | 178 | 6.086 | 6.081 | 0.005 | 87 | 21376 | 0.2476 | |
| 16 Anthracene | 178 | 6.140 | 6.135 | 0.005 | 84 | 6944 | 0.0809 | |
| 17 Fluoranthene | 202 | 7.381 | 7.376 | 0.005 | 98 | 83650 | 0.9143 | |
| 18 Pyrene | 202 | 7.616 | 7.606 | 0.010 | 96 | 68170 | 0.8284 | |
| 19 Benzo[a]anthracene | 228 | 8.927 | 8.916 | 0.011 | 68 | 41880 | 0.5694 | |
| 20 Chrysene | 228 | 8.959 | 8.953 | 0.006 | 90 | 36620 | 0.5225 | |
| 21 Benzo[b]fluoranthene | 252 | 9.959 | 9.948 | 0.011 | 68 | 40568 | 0.6036 | |
| 22 Benzo[k]fluoranthene | 252 | 9.980 | 9.975 | 0.005 | 98 | 13411 | 0.2054 | M |
| 23 Benzo[a]pyrene | 252 | 10.232 | 10.221 | 0.011 | 95 | 20959 | 0.3792 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.125 | 11.109 | 0.016 | 96 | 13204 | 0.1912 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.146 | 11.136 | 0.010 | 29 | 5948 | 0.1232 | |
| 26 Benzo[g,h,i]perylene | 276 | 11.339 | 11.323 | 0.016 | 70 | 11649 | 0.2313 | |

## QC Flag Legend

Review Flags
M - Manually Integrated

## Reagents:

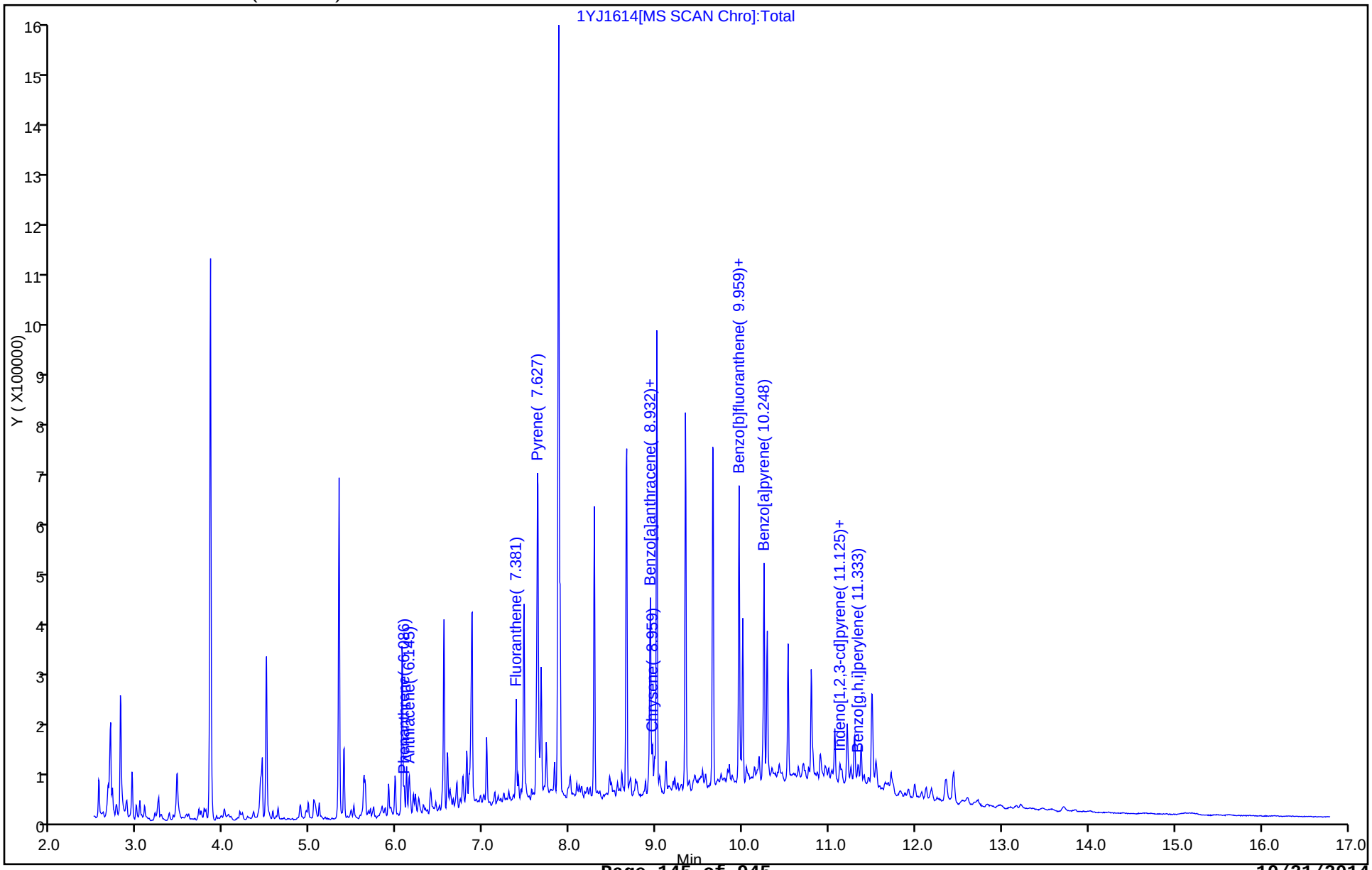
SM-LLISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 17-Oct-2014 08:59:18 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1614.D | | | | |
| Injection Date: | 16-Oct-2014 14:19:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | 680-106200-A-24-A | Lab Sample ID: | 680-106200-24 | Worklist Smp#: | 14 |
| Client ID: | CV0005AC-CS12 | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | ALS Bottle#: | 13 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)

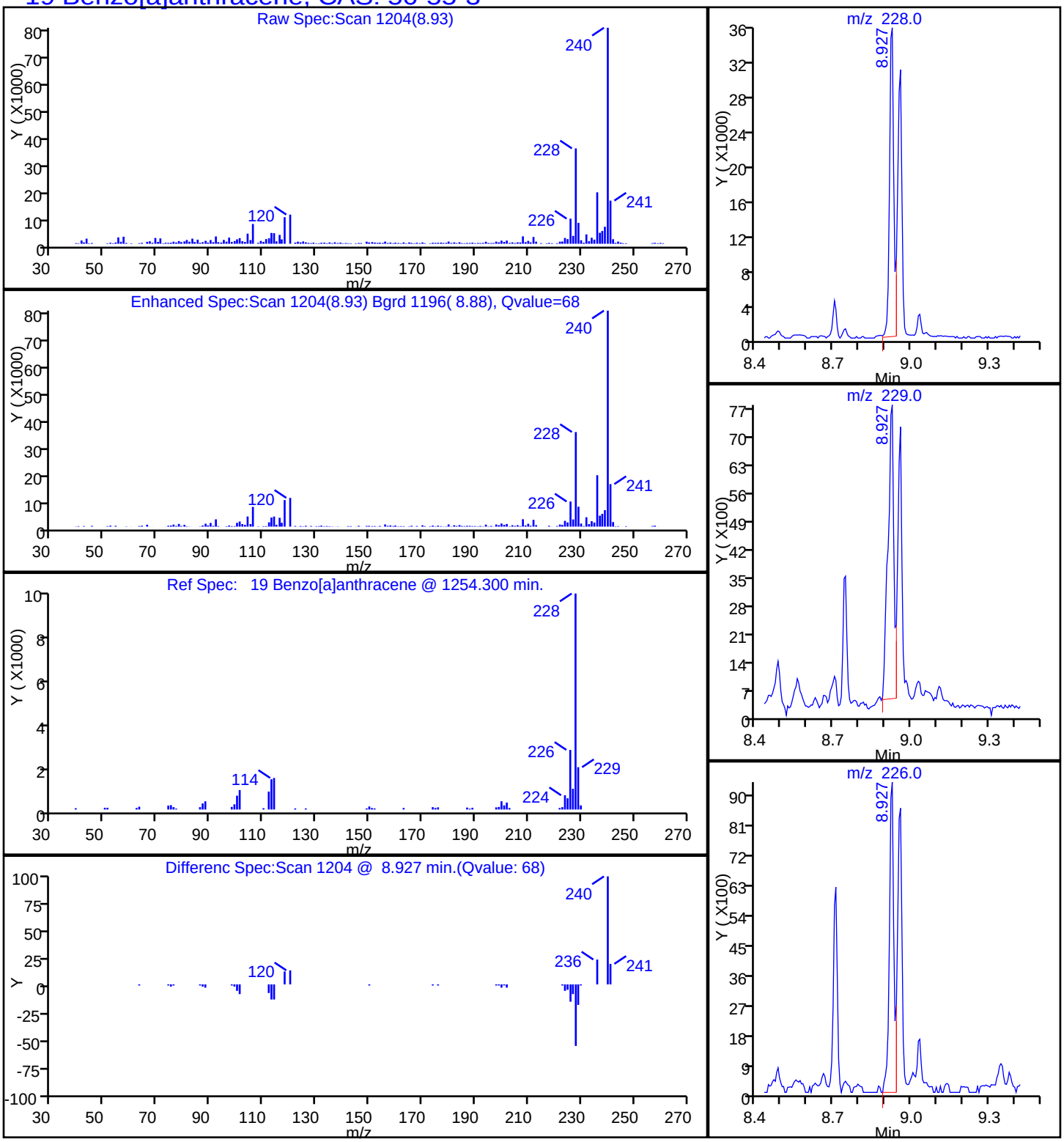


Report Date: 17-Oct-2014 08:59:18 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1614.D | | | | |
| Injection Date: | 16-Oct-2014 14:19:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-24-A | Lab Sample ID: | 680-106200-24 | | |
| Client ID: | CV0005AC-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 13 | Worklist Smp#: | 14 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

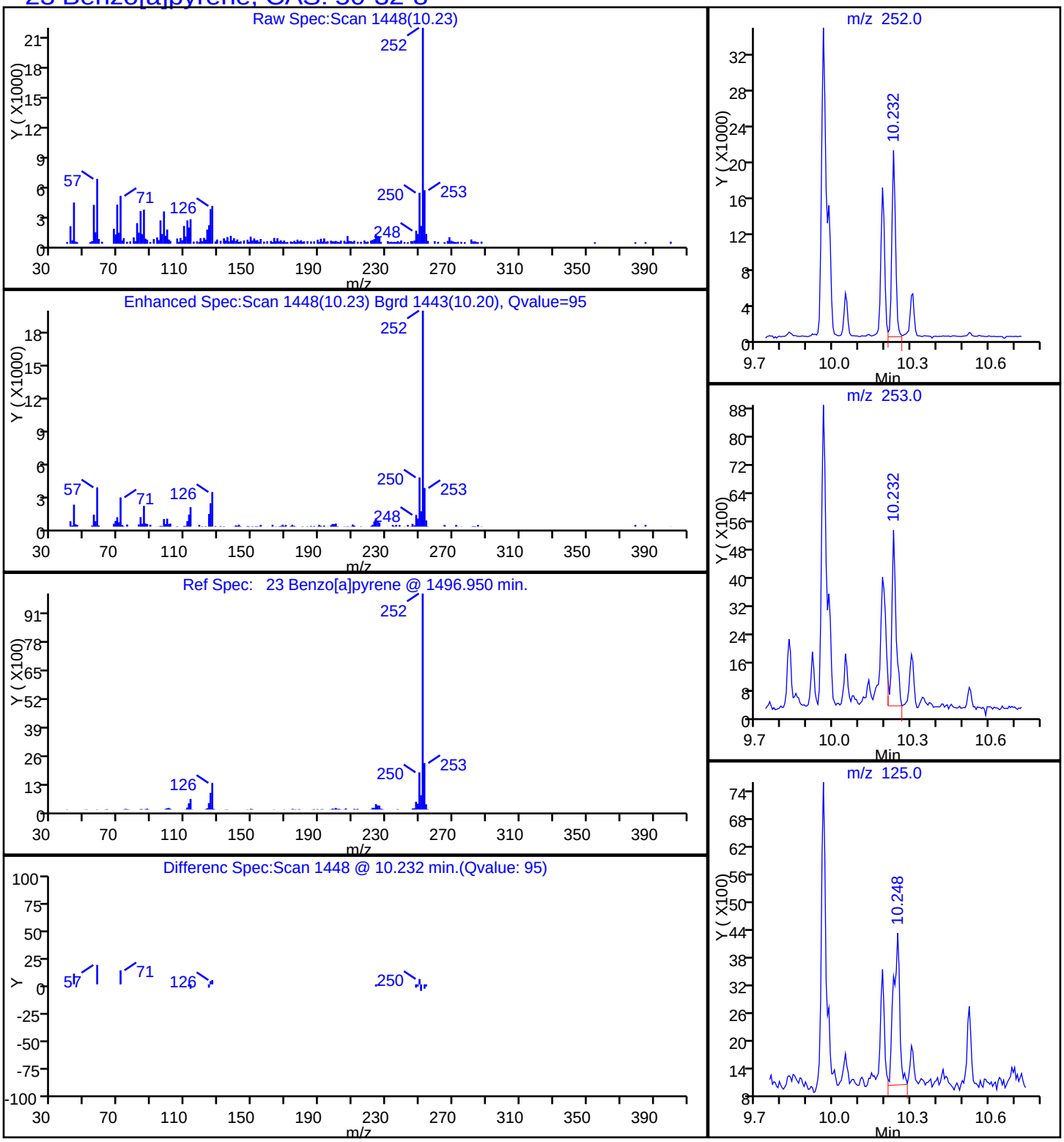


Report Date: 17-Oct-2014 08:59:18 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1614.D | | | | |
| Injection Date: | 16-Oct-2014 14:19:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-24-A | Lab Sample ID: | 680-106200-24 | | |
| Client ID: | CV0005AC-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 13 | Worklist Smp#: | 14 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

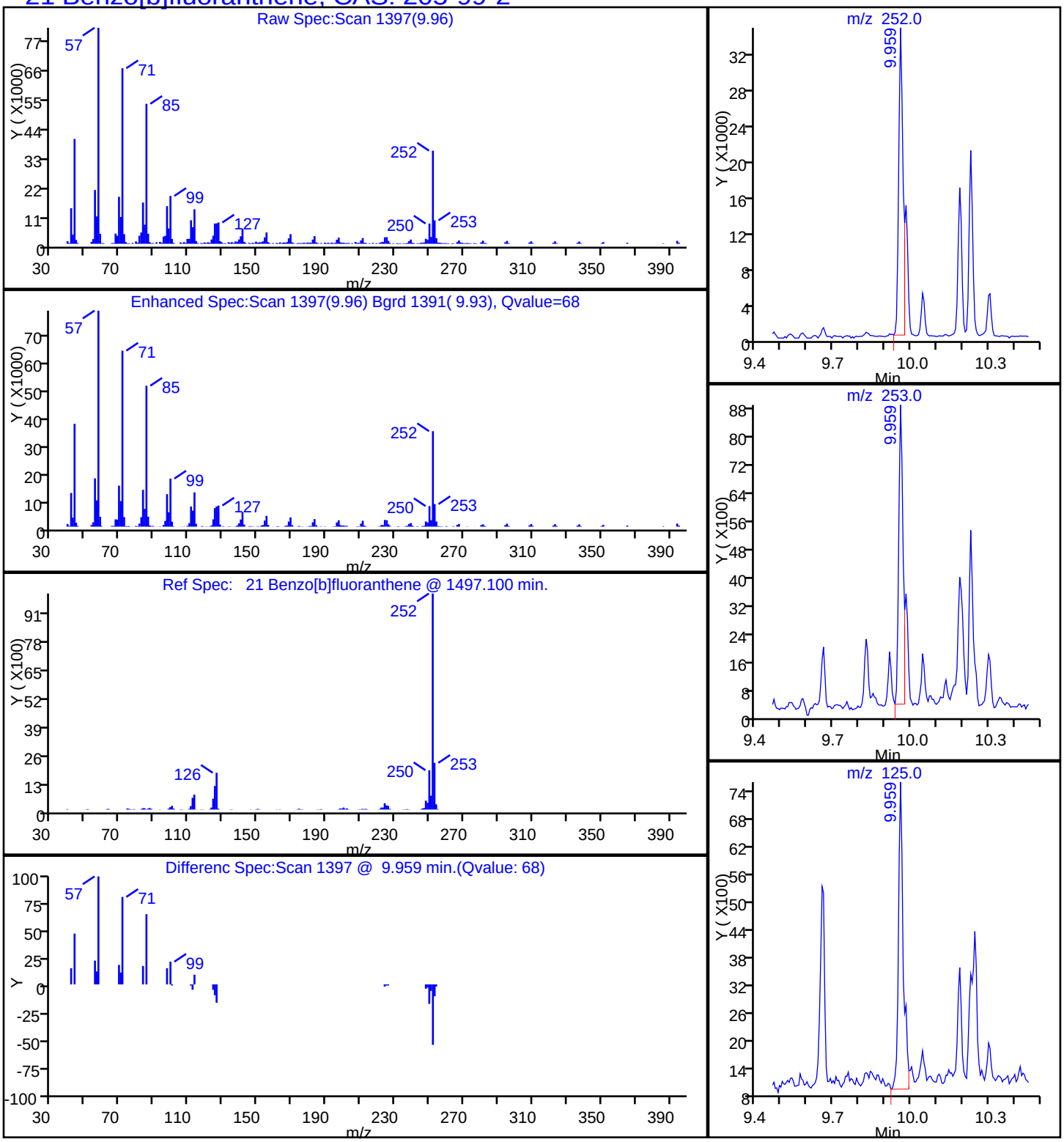


Report Date: 17-Oct-2014 08:59:18 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1614.D | | | | |
| Injection Date: | 16-Oct-2014 14:19:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-24-A | Lab Sample ID: | 680-106200-24 | | |
| Client ID: | CV0005AC-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 13 | Worklist Smp#: | 14 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

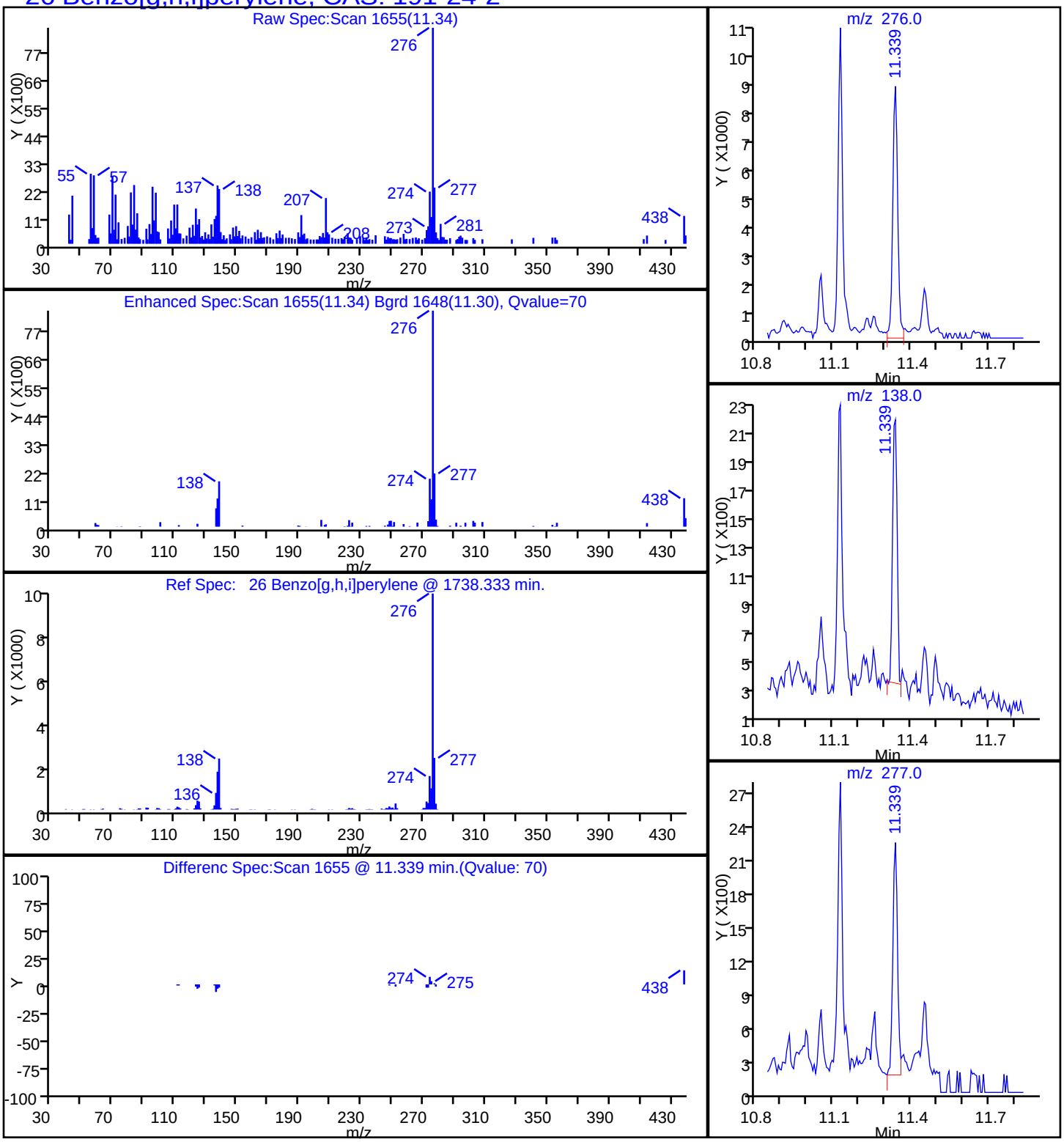


Report Date: 17-Oct-2014 08:59:18 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1614.D | | | | |
| Injection Date: | 16-Oct-2014 14:19:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-24-A | Lab Sample ID: | 680-106200-24 | | |
| Client ID: | CV0005AC-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 13 | Worklist Smp#: | 14 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

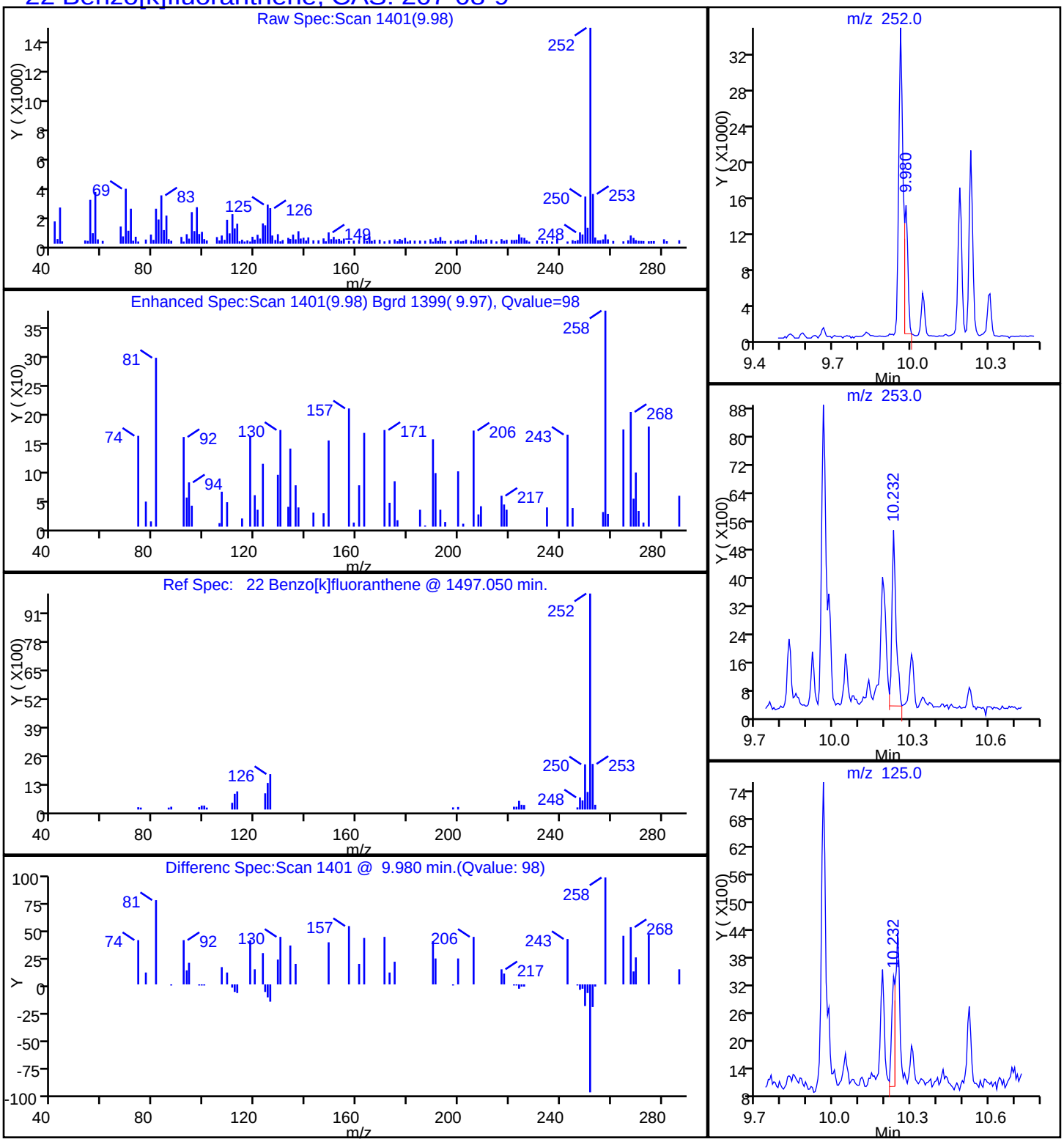


Report Date: 17-Oct-2014 08:59:18 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1614.D | | | | |
| Injection Date: | 16-Oct-2014 14:19:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-24-A | Lab Sample ID: | 680-106200-24 | | |
| Client ID: | CV0005AC-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 13 | Worklist Smp#: | 14 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

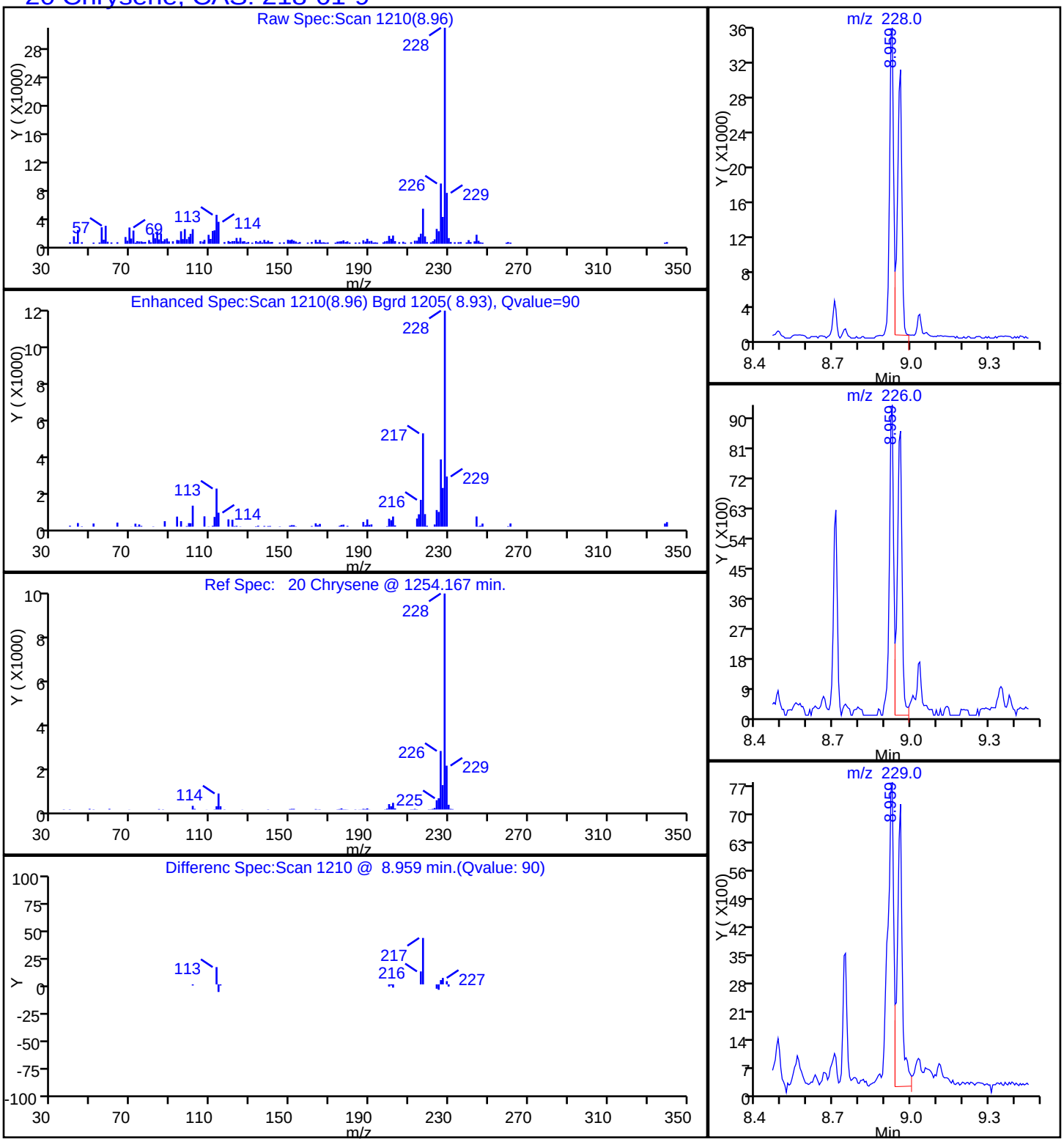


Report Date: 17-Oct-2014 08:59:18 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1614.D | | | | |
| Injection Date: | 16-Oct-2014 14:19:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-24-A | Lab Sample ID: | 680-106200-24 | | |
| Client ID: | CV0005AC-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 13 | Worklist Smp#: | 14 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 20 Chrysene, CAS: 218-01-9

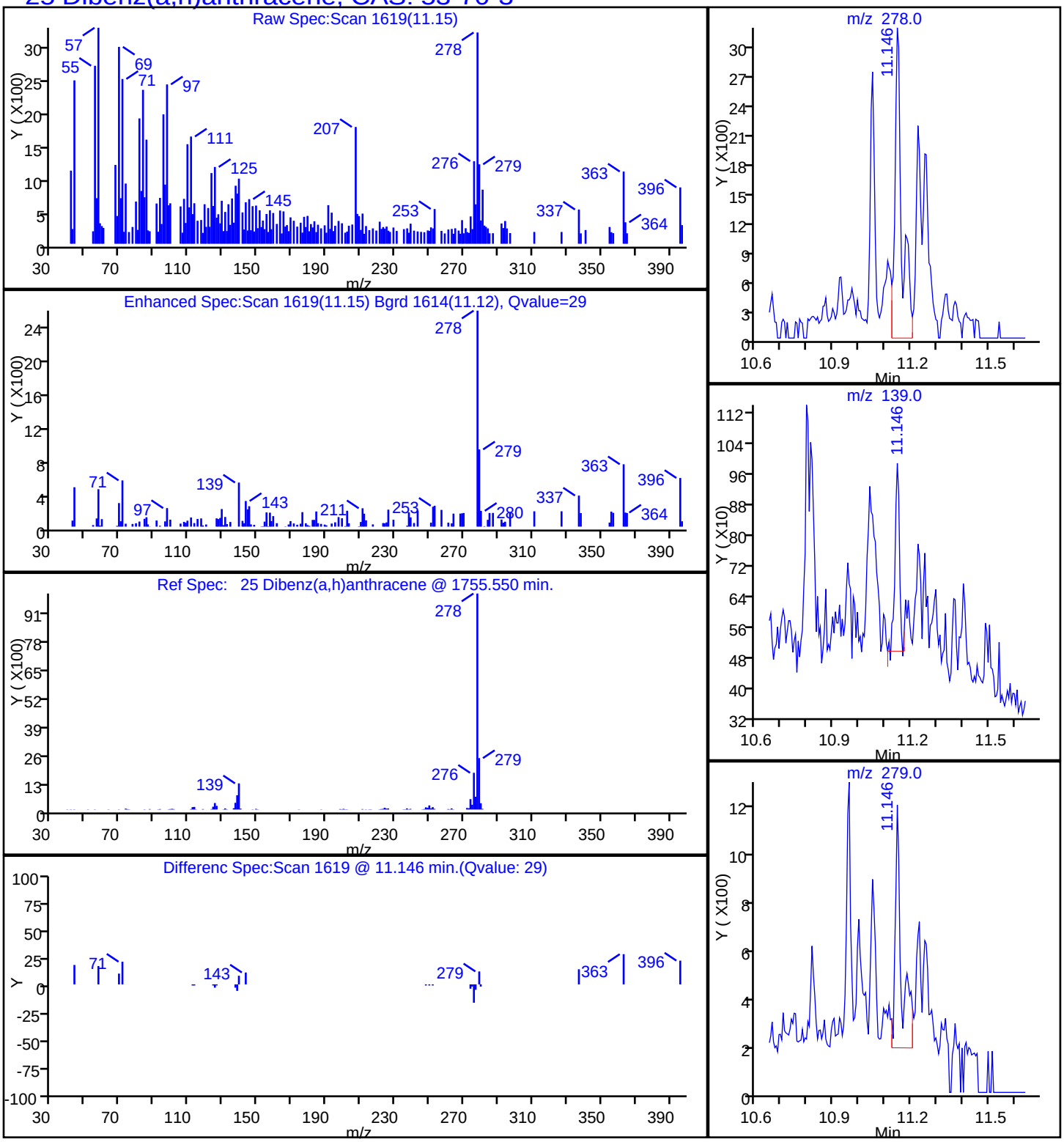


Report Date: 17-Oct-2014 08:59:18 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1614.D | | | | |
| Injection Date: | 16-Oct-2014 14:19:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-24-A | Lab Sample ID: | 680-106200-24 | | |
| Client ID: | CV0005AC-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 13 | Worklist Smp#: | 14 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

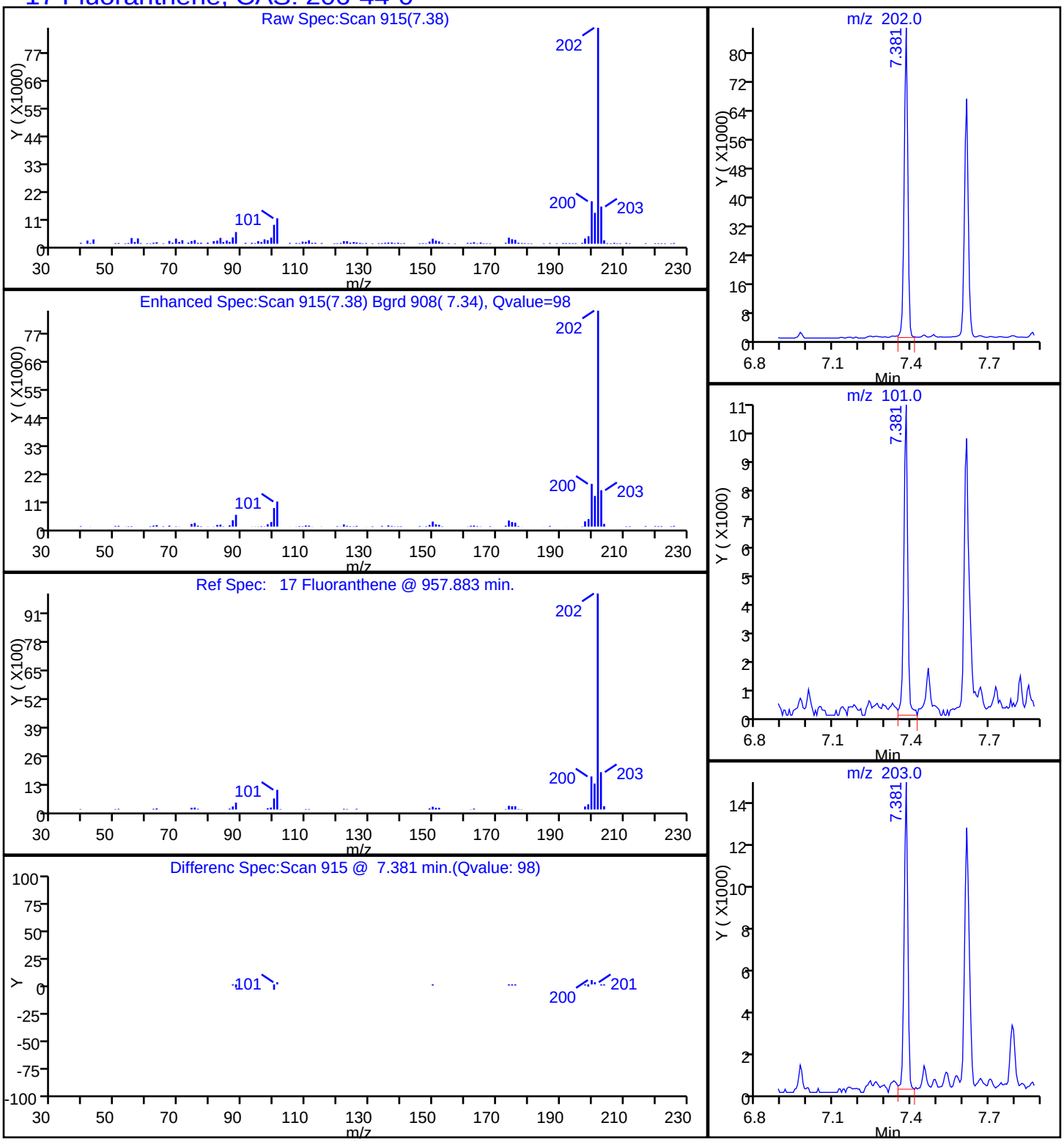


Report Date: 17-Oct-2014 08:59:18 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1614.D | | | | |
| Injection Date: | 16-Oct-2014 14:19:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-24-A | Lab Sample ID: | 680-106200-24 | | |
| Client ID: | CV0005AC-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 13 | Worklist Smp#: | 14 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

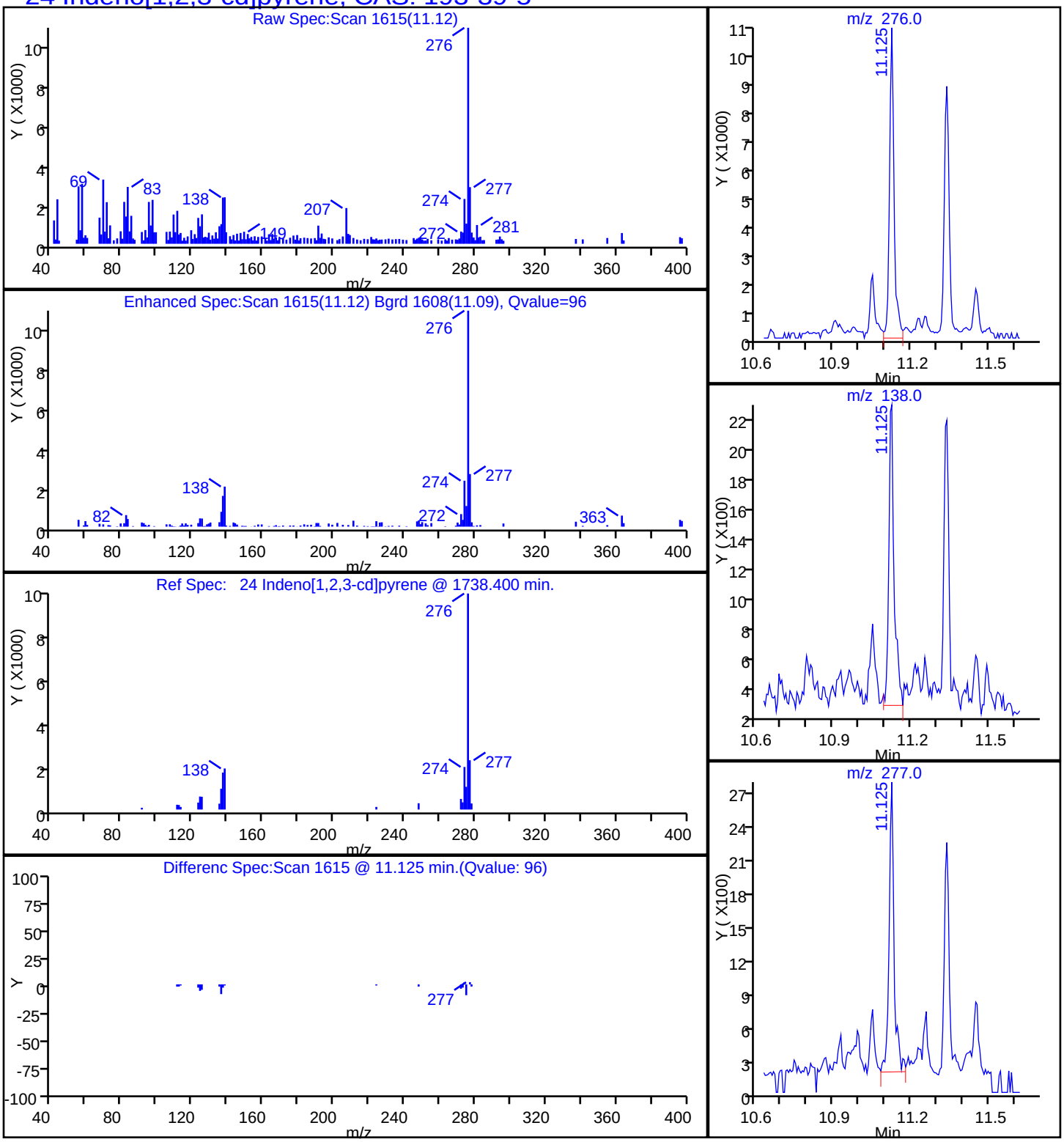


Report Date: 17-Oct-2014 08:59:18 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1614.D | | | | |
| Injection Date: | 16-Oct-2014 14:19:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-24-A | Lab Sample ID: | 680-106200-24 | | |
| Client ID: | CV0005AC-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 13 | Worklist Smp#: | 14 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

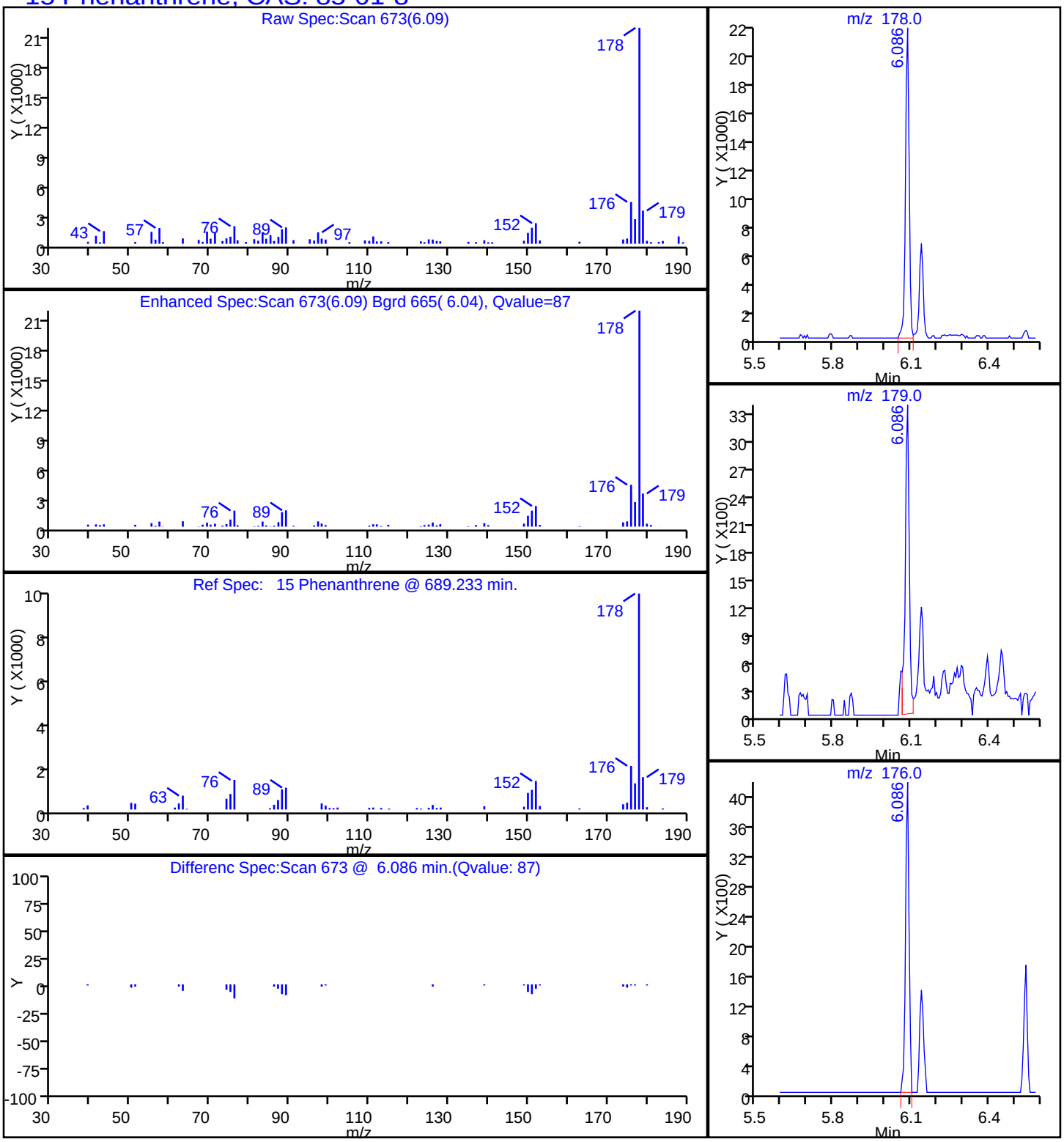


Report Date: 17-Oct-2014 08:59:18 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1614.D | | | | |
| Injection Date: | 16-Oct-2014 14:19:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-24-A | Lab Sample ID: | 680-106200-24 | | |
| Client ID: | CV0005AC-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 13 | Worklist Smp#: | 14 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 15 Phenanthrene, CAS: 85-01-8

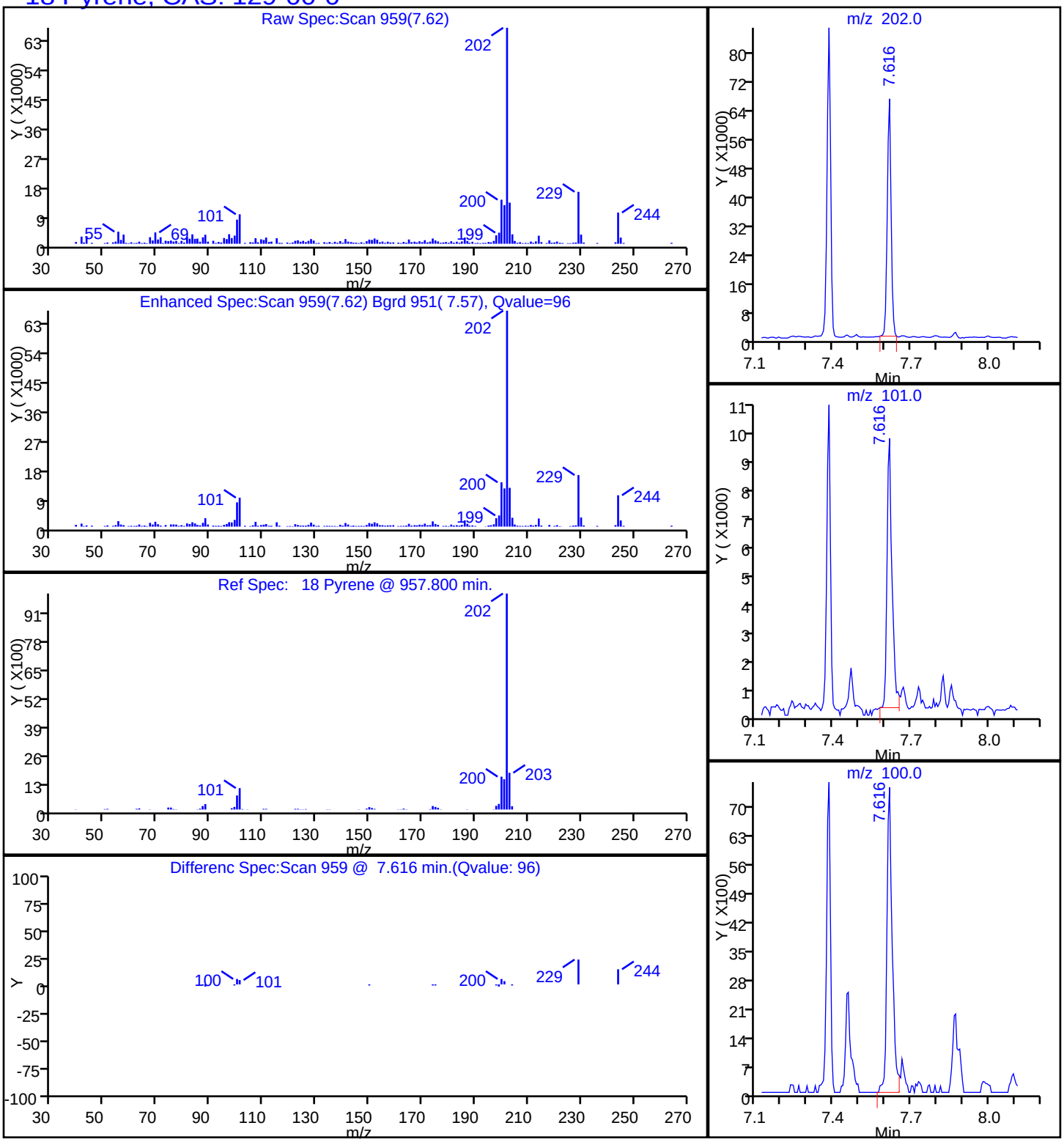


Report Date: 17-Oct-2014 08:59:18 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1614.D | | | | |
| Injection Date: | 16-Oct-2014 14:19:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-24-A | Lab Sample ID: | 680-106200-24 | | |
| Client ID: | CV0005AC-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 13 | Worklist Smp#: | 14 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 18 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

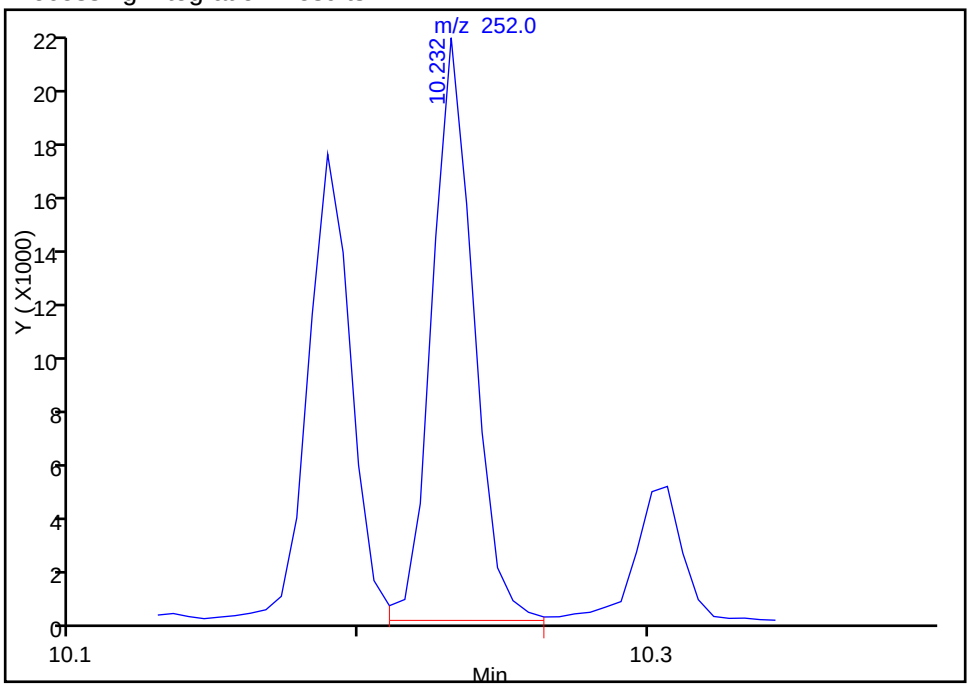
TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1614.D | | | | |
| Injection Date: | 16-Oct-2014 14:19:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-24-A | Lab Sample ID: | 680-106200-24 | | |
| Client ID: | CV0005AC-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 13 | Worklist Smp#: | 14 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

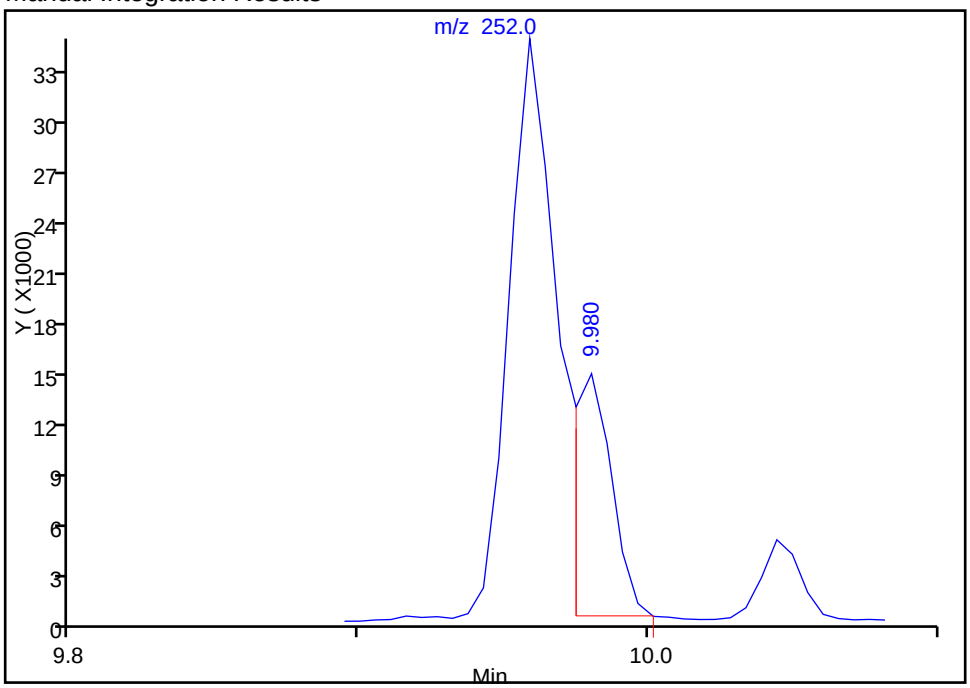
Processing Integration Results

RT: 10.23
Response: 20888
Amount: 0.320058




Manual Integration Results

RT: 9.98
Response: 13411
Amount: 0.205391




Reviewer: webbk, 16-Oct-2014 14:42:09
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0005AC-CS18 | Lab Sample ID: 680-106200-25

Matrix: Solid | Lab File ID: 1YJ1615.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 10:30

Extract. Method: 3546 | Date Extracted: 10/15/2014 10:01

Sample wt/vol: 30.01(g) | Date Analyzed: 10/16/2014 17:00

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 5.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353862 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 7.1 | U | 7.1 | 3.5 |
| 208-96-8 | Acenaphthylene | 7.1 | U | 7.1 | 3.5 |
| 120-12-7 | Anthracene | 7.1 | U | 7.1 | 3.5 |
| 56-55-3 | Benzo[a]anthracene | 23 | | 7.1 | 3.5 |
| 50-32-8 | Benzo[a]pyrene | 22 | | 7.1 | 1.3 |
| 205-99-2 | Benzo[b]fluoranthene | 36 | | 7.1 | 3.5 |
| 191-24-2 | Benzo[g,h,i]perylene | 20 | | 7.1 | 3.5 |
| 207-08-9 | Benzo[k]fluoranthene | 14 | | 7.1 | 2.1 |
| 218-01-9 | Chrysene | 27 | | 7.1 | 3.5 |
| 53-70-3 | Dibenz(a,h)anthracene | 7.7 | | 7.1 | 3.5 |
| 206-44-0 | Fluoranthene | 32 | | 7.1 | 3.5 |
| 86-73-7 | Fluorene | 7.1 | U | 7.1 | 3.5 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 15 | | 7.1 | 3.5 |
| 90-12-0 | 1-Methylnaphthalene | 5.2 | J | 7.1 | 3.3 |
| 91-57-6 | 2-Methylnaphthalene | 7.2 | | 7.1 | 3.5 |
| 91-20-3 | Naphthalene | 4.8 | J | 7.1 | 3.5 |
| 85-01-8 | Phenanthrene | 19 | | 7.1 | 2.5 |
| 129-00-0 | Pyrene | 31 | | 7.1 | 3.5 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 114 | | 36-131 |

TestAmerica Savannah
Target Compound Quantitation Report

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1615.D | | | | |
| Lims ID: | 680-106200-A-25-A | Lab Sample ID: | 680-106200-25 | | |
| Client ID: | CV0005AC-CS18 | | | | |
| Sample Type: | Client | | | | |
| Inject. Date: | 16-Oct-2014 17:00:30 | ALS Bottle#: | 14 | Worklist Smp#: | 15 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Sample Info: | 106200-A-25-A | | | | |
| Misc. Info.: | 680-0013814-015 | | | | |
| Operator ID: | RM | Instrument ID: | CMSY | | |
| Method: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\8270D_LLPAH_MSY.m | | | | |
| Limit Group: | 8270D_LL_PAH | | | | |
| Last Update: | 17-Oct-2014 08:59:05 | Calib Date: | 07-Oct-2014 15:41:30 | | |
| Integrator: | RTE | ID Type: | RT Order ID | | |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration | | |
| Last ICal File: | \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D | | | | |
| Column 1 : | Restek RXi-5Sil MS ( 0.25 mm) | | Det: MS SCAN | | |
| Process Host: | XAWRK009 | | | | |

First Level Reviewer: webbk Date: 17-Oct-2014 08:48:10

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.803 | 2.803 | -0.001 | 98 | 144217 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.493 | 4.487 | 0.006 | 88 | 83443 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.065 | 6.054 | 0.011 | 97 | 137550 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 8.937 | 8.927 | 0.010 | 99 | 118462 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.291 | 10.269 | 0.022 | 98 | 99323 | 2.00 | |
| $ 6 o-Terphenyl | 230 | 6.547 | 6.541 | 0.006 | 90 | 86547 | 2.28 | |
| 7 Naphthalene | 128 | 2.819 | 2.819 | 0.000 | 67 | 10735 | 0.1365 | |
| 8 2-Methylnaphthalene | 142 | 3.460 | 3.455 | 0.005 | 76 | 10712 | 0.2054 | |
| 9 1-Methylnaphthalene | 142 | 3.546 | 3.546 | 0.000 | 71 | 7184 | 0.1485 | |
| 15 Phenanthrene | 178 | 6.087 | 6.081 | 0.006 | 95 | 44528 | 0.5409 | |
| 16 Anthracene | 178 | 6.140 | 6.135 | 0.005 | 87 | 5618 | 0.0686 | |
| 17 Fluoranthene | 202 | 7.381 | 7.376 | 0.005 | 98 | 80314 | 0.9205 | |
| 18 Pyrene | 202 | 7.616 | 7.606 | 0.010 | 98 | 67944 | 0.8765 | |
| 19 Benzo[a]anthracene | 228 | 8.927 | 8.916 | 0.011 | 97 | 45883 | 0.6623 | |
| 20 Chrysene | 228 | 8.964 | 8.953 | 0.011 | 93 | 51043 | 0.7744 | |
| 21 Benzo[b]fluoranthene | 252 | 9.964 | 9.948 | 0.016 | 97 | 67507 | 1.03 | |
| 22 Benzo[k]fluoranthene | 252 | 9.986 | 9.975 | 0.011 | 98 | 24337 | 0.3837 | M |
| 23 Benzo[a]pyrene | 252 | 10.237 | 10.221 | 0.016 | 95 | 32987 | 0.6139 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.136 | 11.109 | 0.027 | 96 | 27742 | 0.4266 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.157 | 11.136 | 0.021 | 79 | 10317 | 0.2197 | |
| 26 Benzo[g,h,i]perylene | 276 | 11.355 | 11.323 | 0.032 | 63 | 27826 | 0.5680 | |

## QC Flag Legend

Review Flags

M - Manually Integrated

## Reagents:

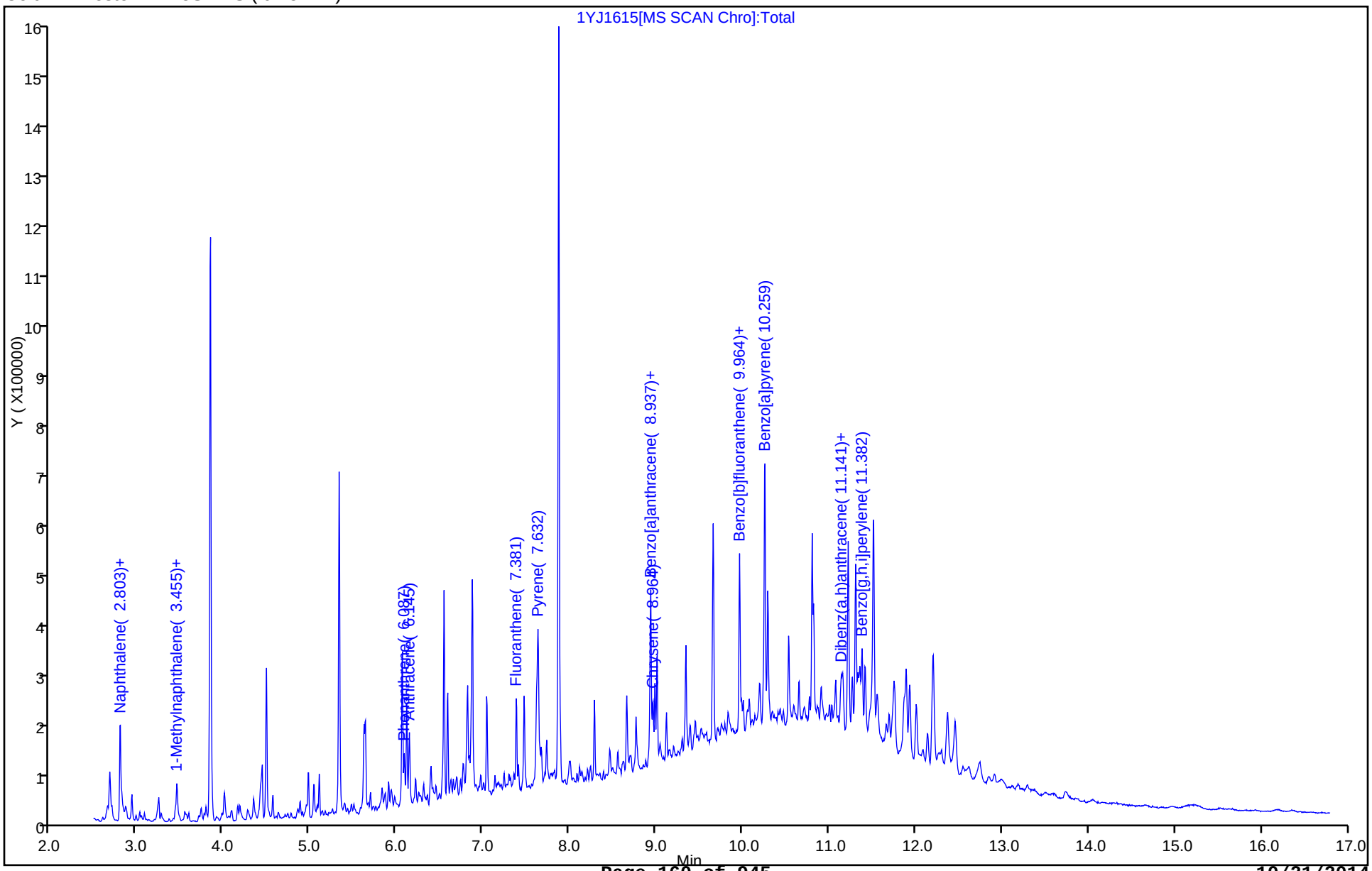
SM-LLISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 17-Oct-2014 08:59:17 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1615.D | | | | |
| Injection Date: | 16-Oct-2014 17:00:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | 680-106200-A-25-A | Lab Sample ID: | 680-106200-25 | Worklist Smp#: | 15 |
| Client ID: | CV0005AC-CS18 | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | ALS Bottle#: | 14 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)

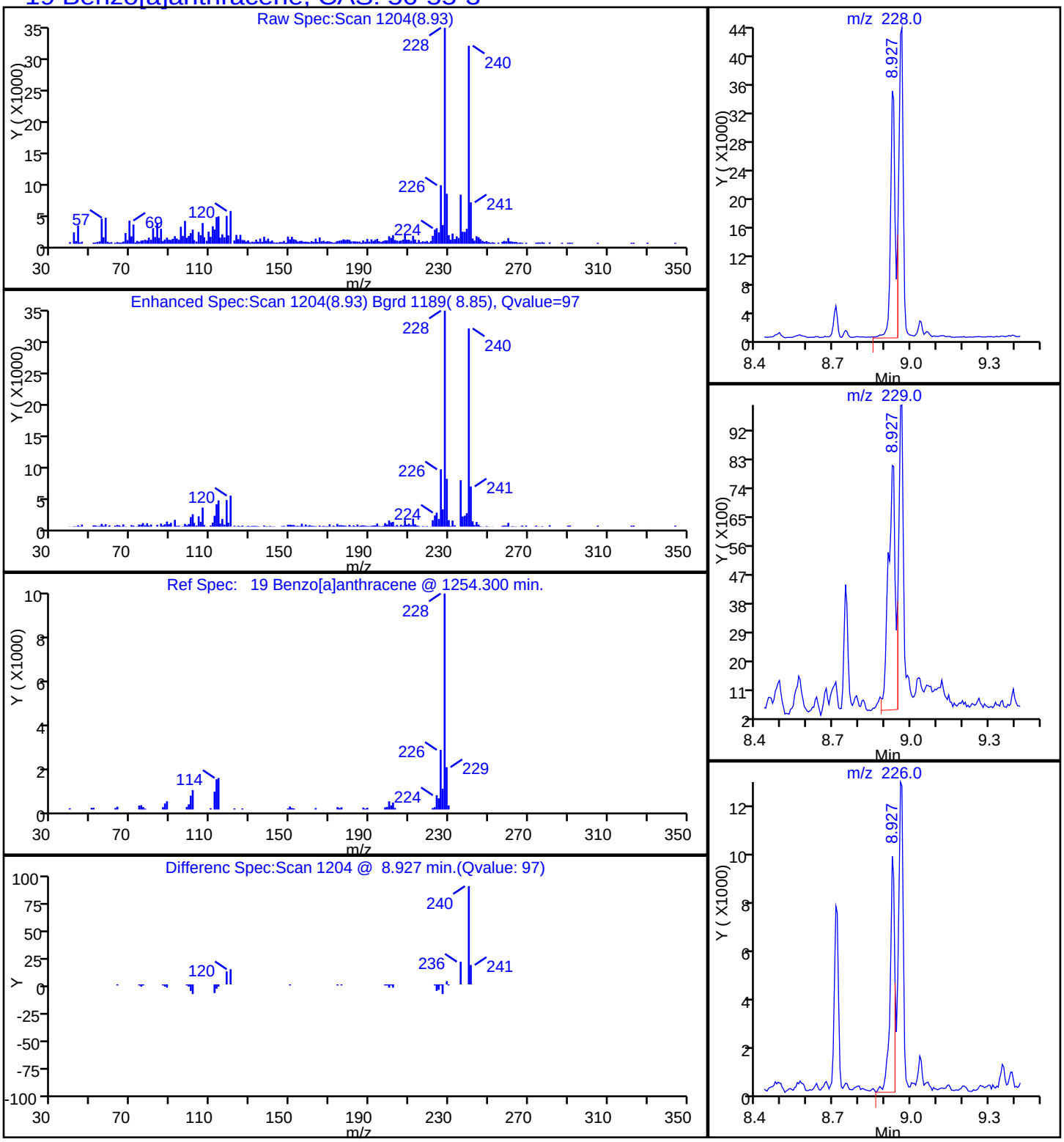


Report Date: 17-Oct-2014 08:59:17 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1615.D | | | | |
| Injection Date: | 16-Oct-2014 17:00:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-25-A | Lab Sample ID: | 680-106200-25 | | |
| Client ID: | CV0005AC-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 14 | Worklist Smp#: | 15 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

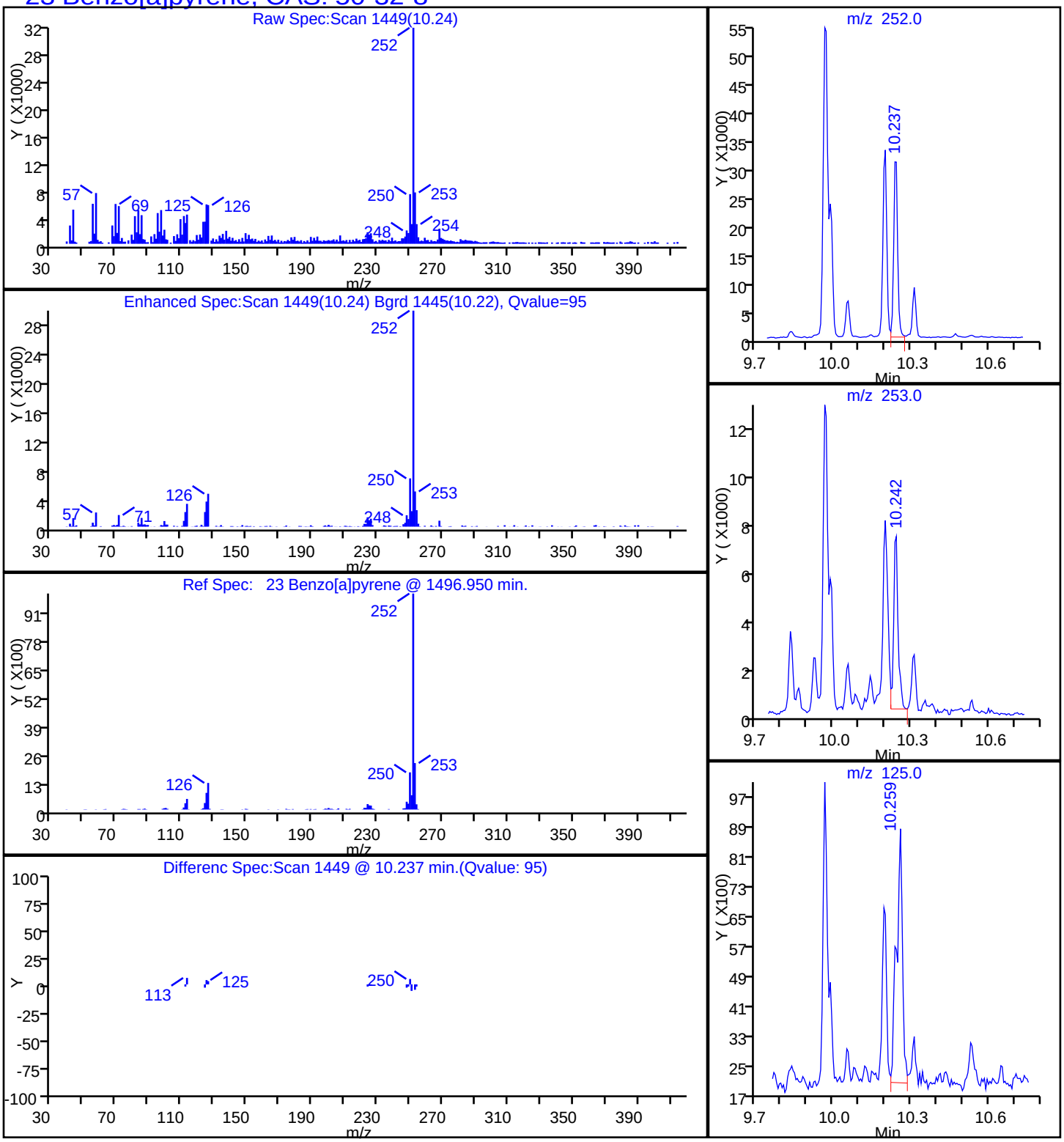


Report Date: 17-Oct-2014 08:59:17 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1615.D | | | | |
| Injection Date: | 16-Oct-2014 17:00:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-25-A | Lab Sample ID: | 680-106200-25 | | |
| Client ID: | CV0005AC-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 14 | Worklist Smp#: | 15 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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



Report Date: 17-Oct-2014 08:59:17 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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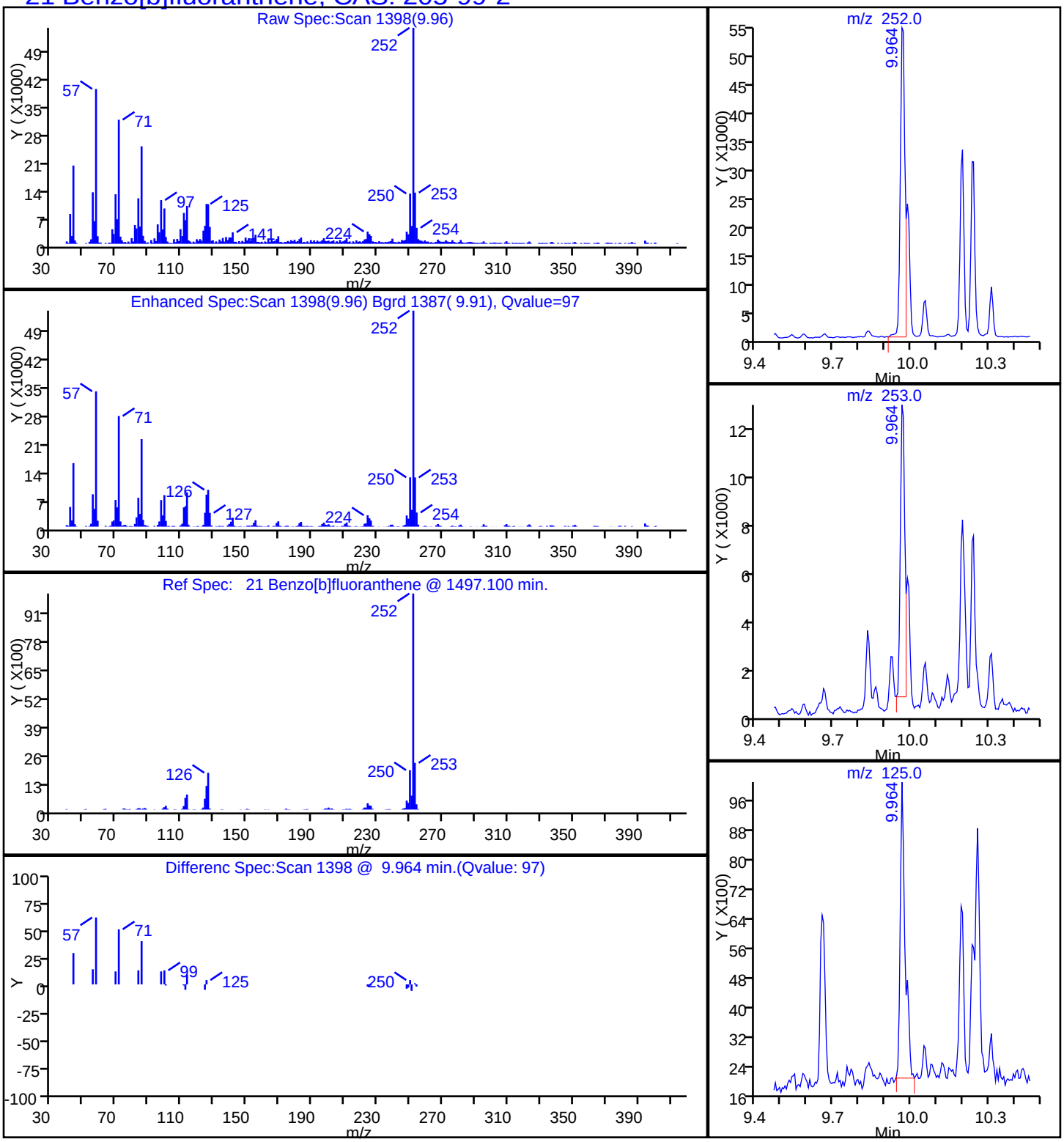
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1615.D | | | | |
| Injection Date: | 16-Oct-2014 17:00:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-25-A | Lab Sample ID: | 680-106200-25 | | |
| Client ID: | CV0005AC-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 14 | Worklist Smp#: | 15 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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



Report Date: 17-Oct-2014 08:59:17 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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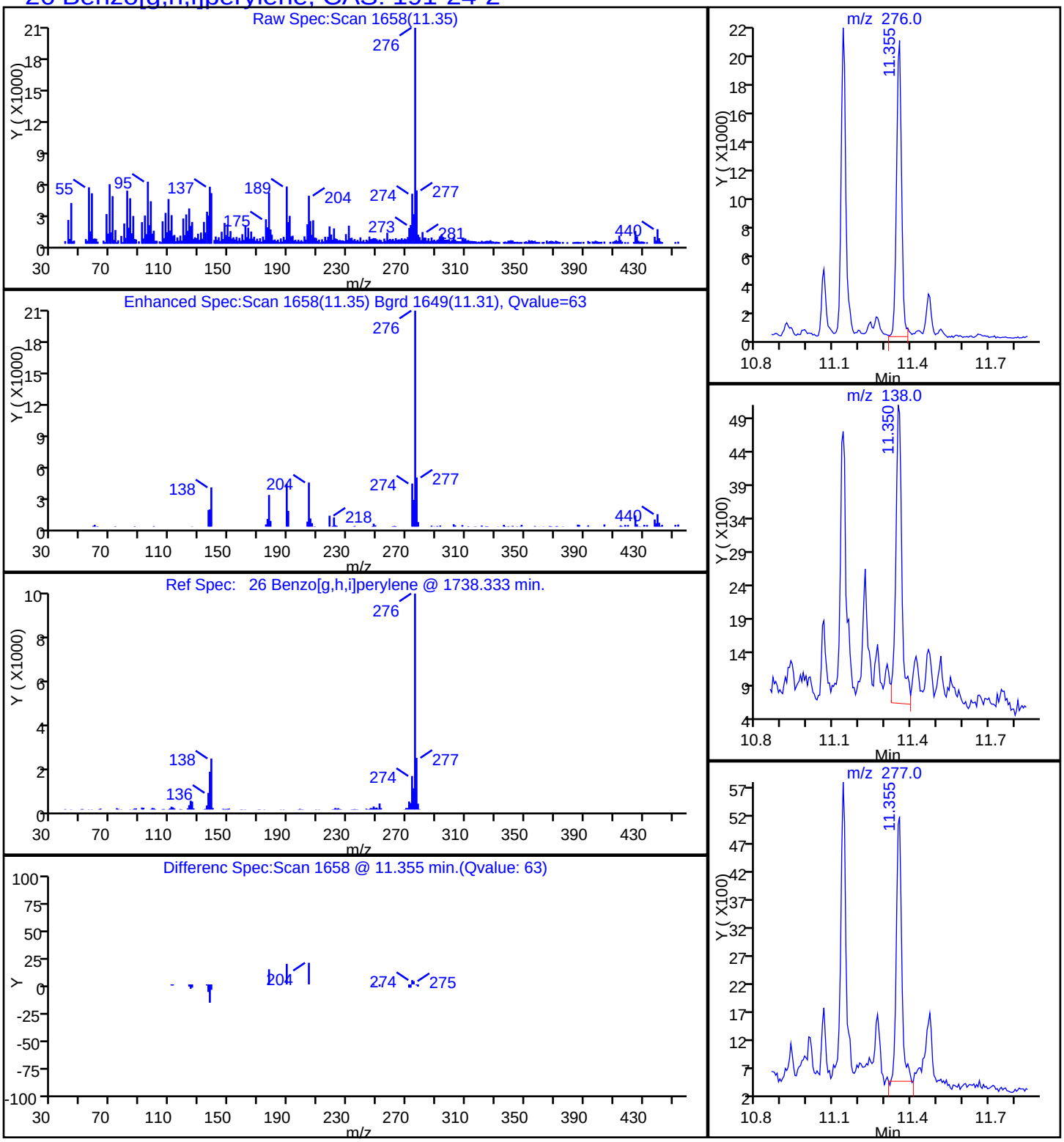
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1615.D | | | | |
| Injection Date: | 16-Oct-2014 17:00:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-25-A | Lab Sample ID: | 680-106200-25 | | |
| Client ID: | CV0005AC-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 14 | Worklist Smp#: | 15 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

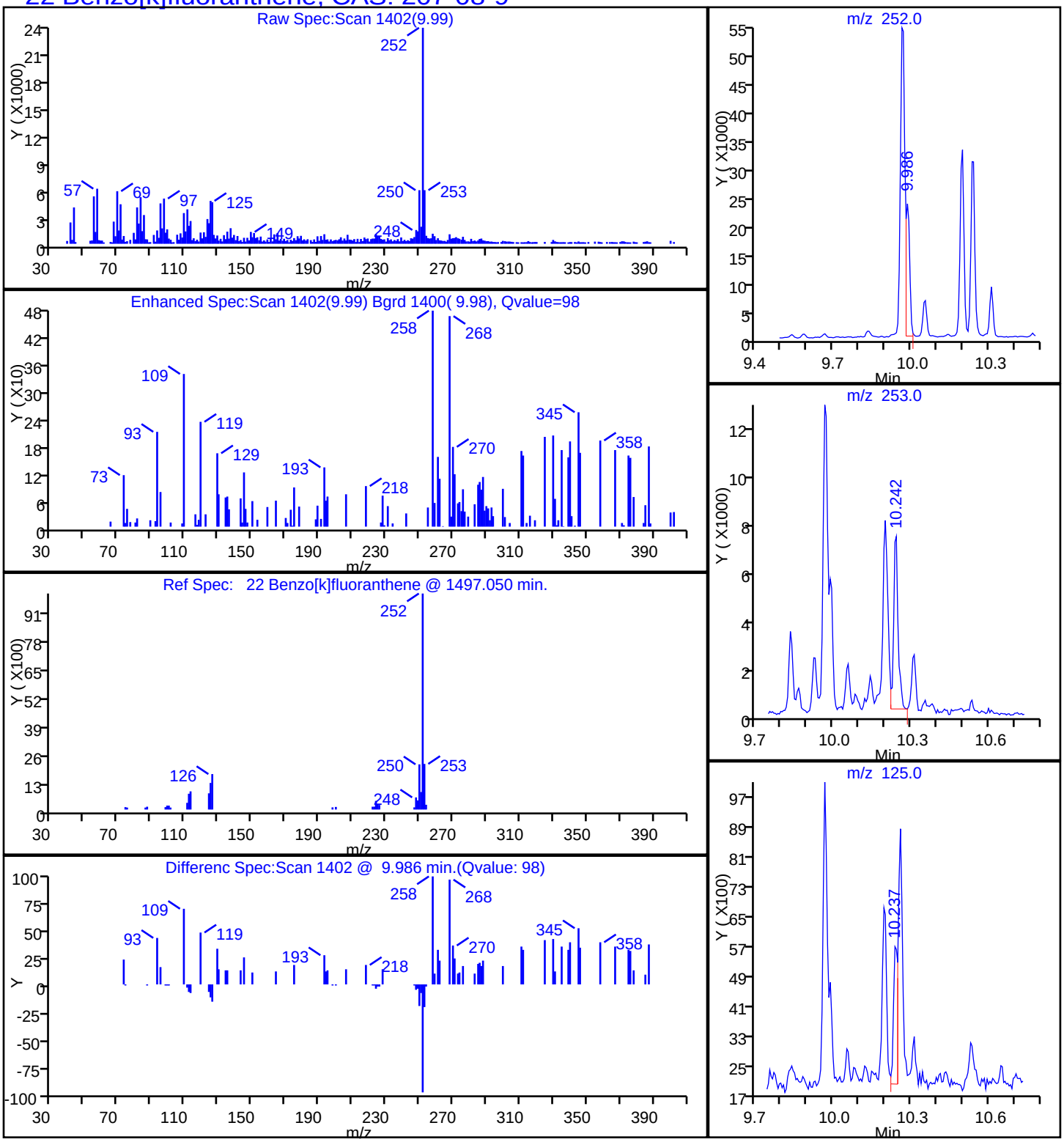


Report Date: 17-Oct-2014 08:59:17 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1615.D | | | | |
| Injection Date: | 16-Oct-2014 17:00:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-25-A | Lab Sample ID: | 680-106200-25 | | |
| Client ID: | CV0005AC-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 14 | Worklist Smp#: | 15 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

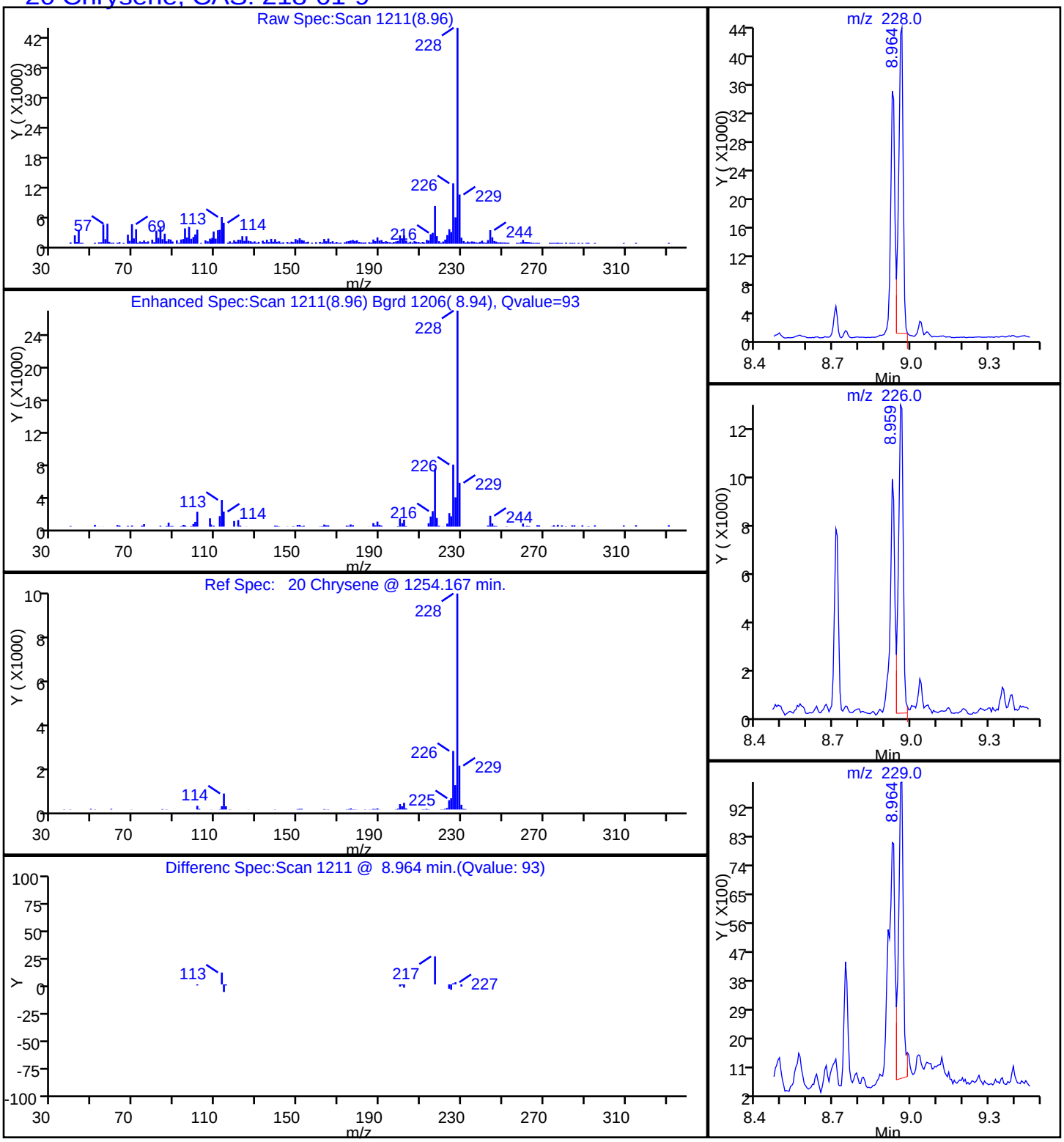


Report Date: 17-Oct-2014 08:59:17 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1615.D | | | | |
| Injection Date: | 16-Oct-2014 17:00:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-25-A | Lab Sample ID: | 680-106200-25 | | |
| Client ID: | CV0005AC-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 14 | Worklist Smp#: | 15 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 20 Chrysene, CAS: 218-01-9

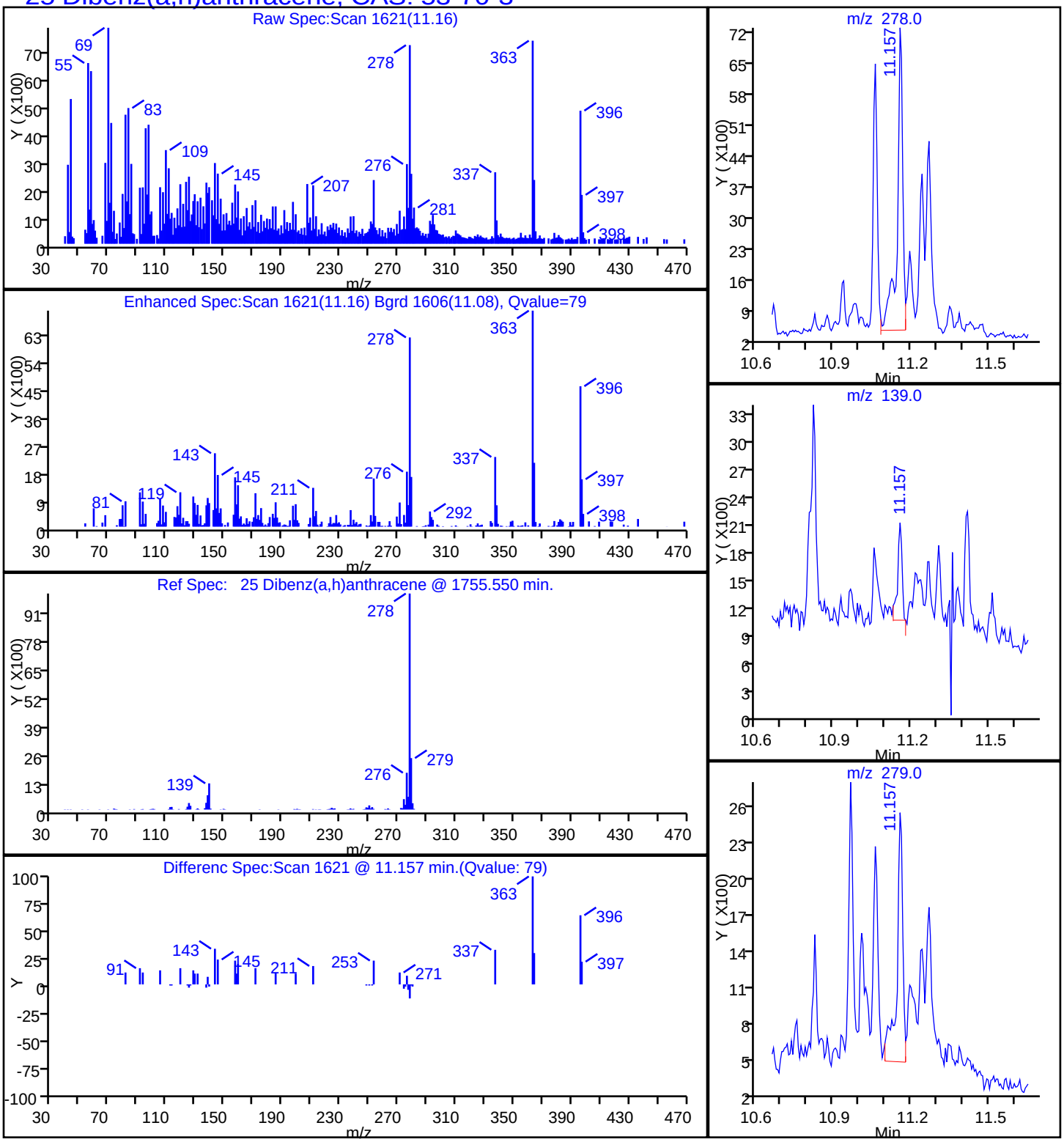


Report Date: 17-Oct-2014 08:59:17 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1615.D | | | | |
| Injection Date: | 16-Oct-2014 17:00:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-25-A | Lab Sample ID: | 680-106200-25 | | |
| Client ID: | CV0005AC-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 14 | Worklist Smp#: | 15 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

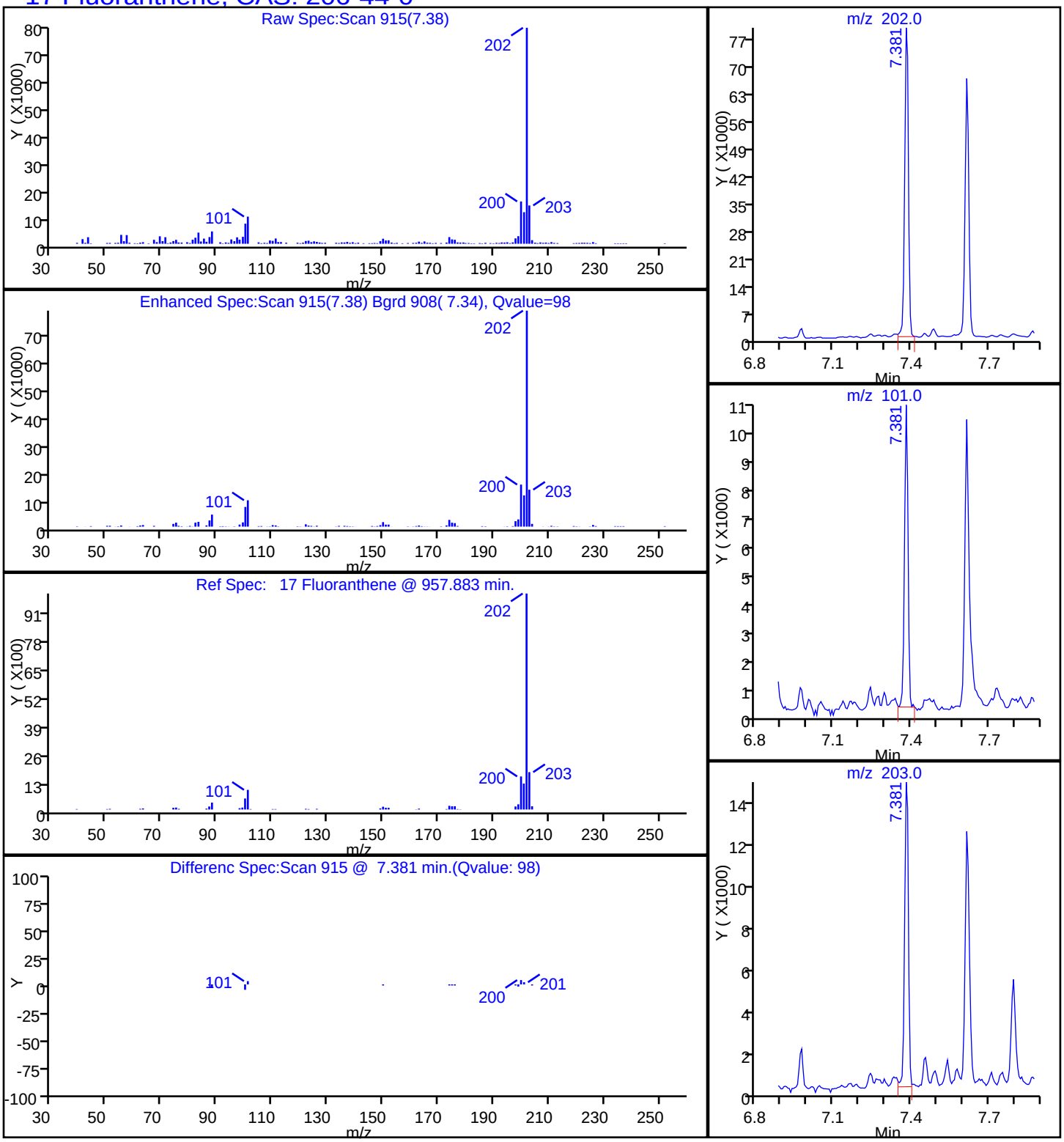


Report Date: 17-Oct-2014 08:59:17 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1615.D | | | | |
| Injection Date: | 16-Oct-2014 17:00:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-25-A | Lab Sample ID: | 680-106200-25 | | |
| Client ID: | CV0005AC-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 14 | Worklist Smp#: | 15 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

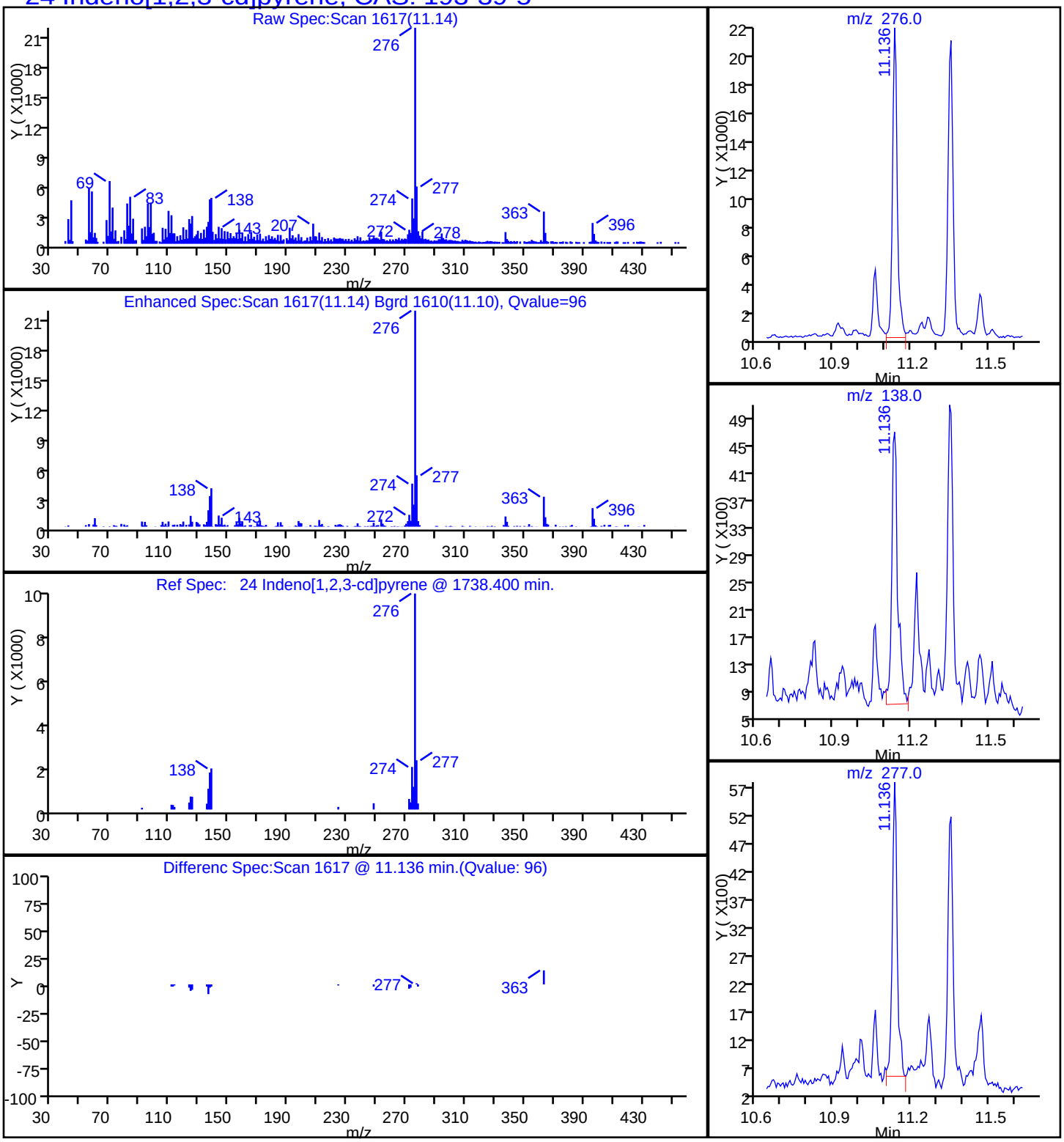


Report Date: 17-Oct-2014 08:59:17 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1615.D | | | | |
| Injection Date: | 16-Oct-2014 17:00:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-25-A | Lab Sample ID: | 680-106200-25 | | |
| Client ID: | CV0005AC-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 14 | Worklist Smp#: | 15 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

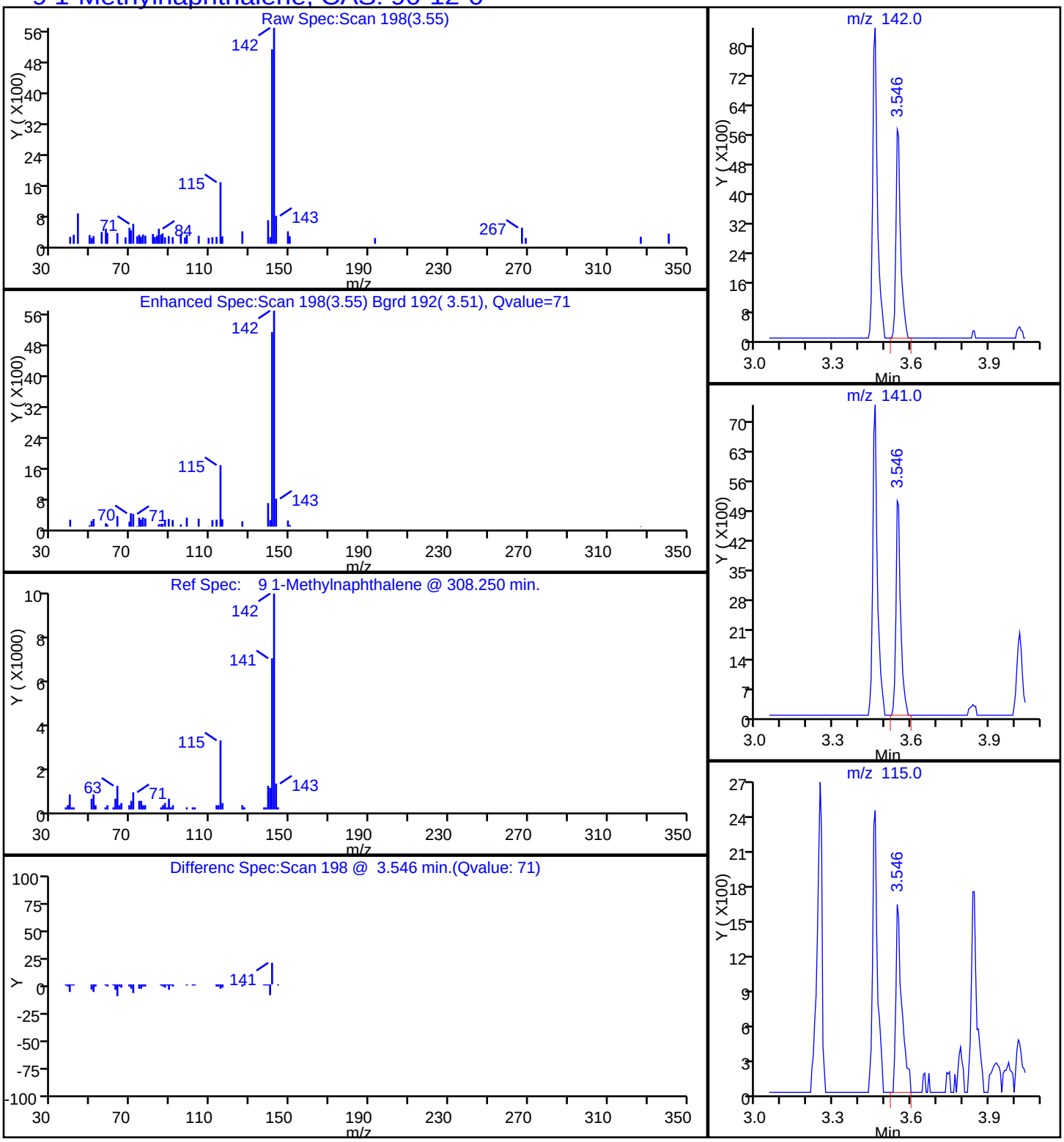


Report Date: 17-Oct-2014 08:59:17 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1615.D | | | | |
| Injection Date: | 16-Oct-2014 17:00:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-25-A | Lab Sample ID: | 680-106200-25 | | |
| Client ID: | CV0005AC-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 14 | Worklist Smp#: | 15 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 9 1-Methylnaphthalene, CAS: 90-12-0



Report Date: 17-Oct-2014 08:59:17 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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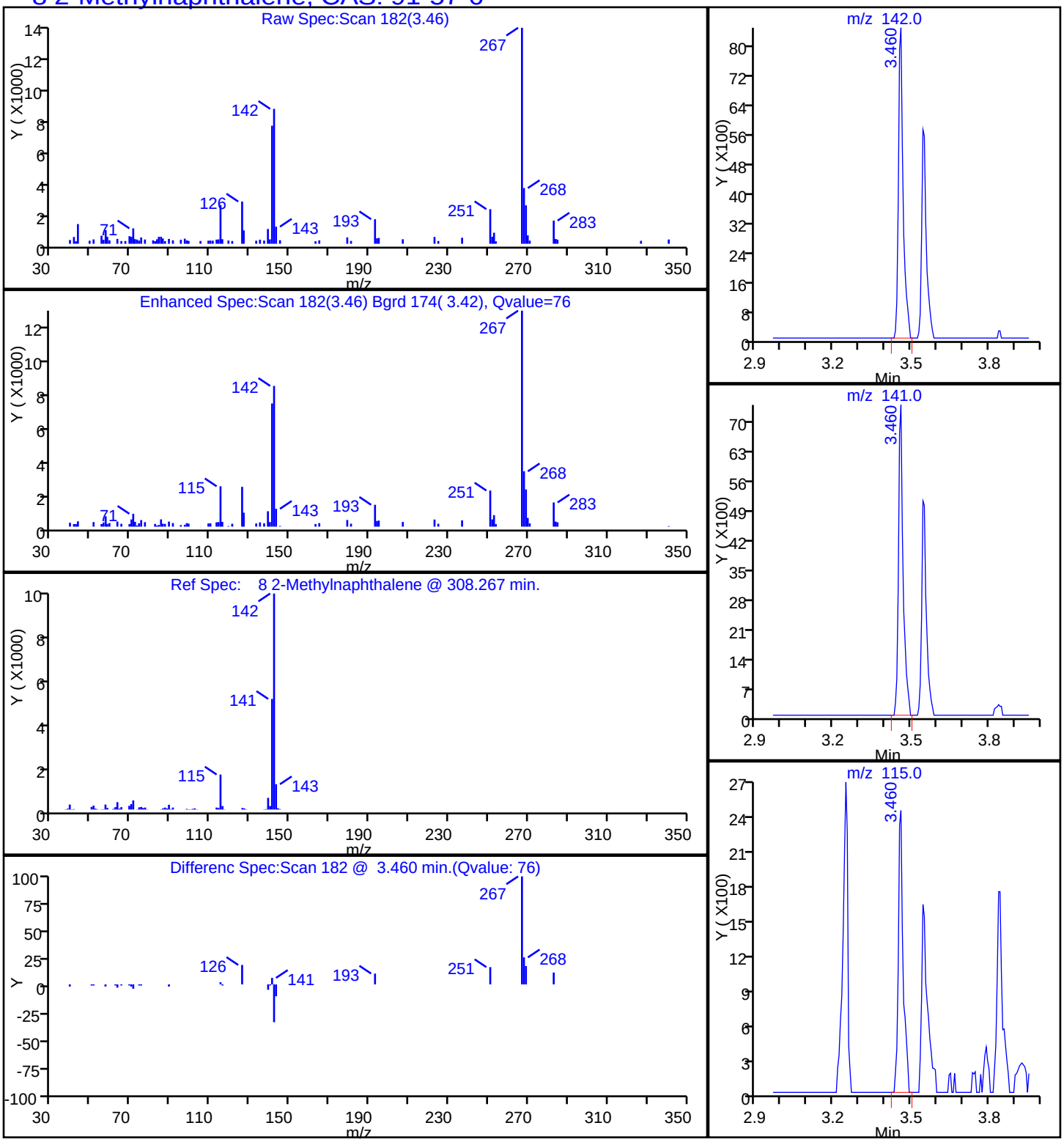
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1615.D | | | | |
| Injection Date: | 16-Oct-2014 17:00:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-25-A | Lab Sample ID: | 680-106200-25 | | |
| Client ID: | CV0005AC-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 14 | Worklist Smp#: | 15 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 8 2-Methylnaphthalene, CAS: 91-57-6



Report Date: 17-Oct-2014 08:59:17 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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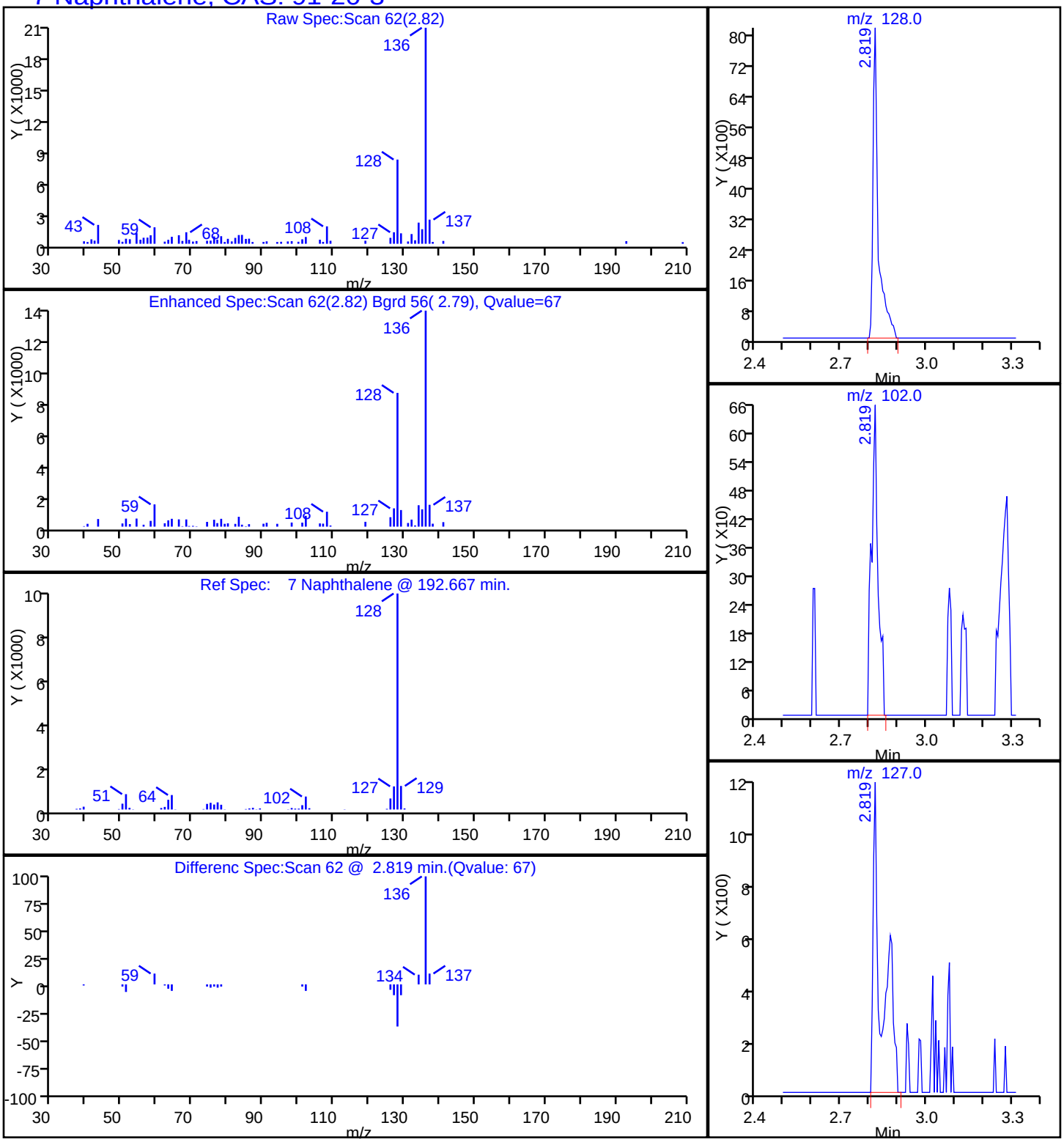
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1615.D | | | | |
| Injection Date: | 16-Oct-2014 17:00:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-25-A | Lab Sample ID: | 680-106200-25 | | |
| Client ID: | CV0005AC-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 14 | Worklist Smp#: | 15 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 7 Naphthalene, CAS: 91-20-3



Report Date: 17-Oct-2014 08:59:17 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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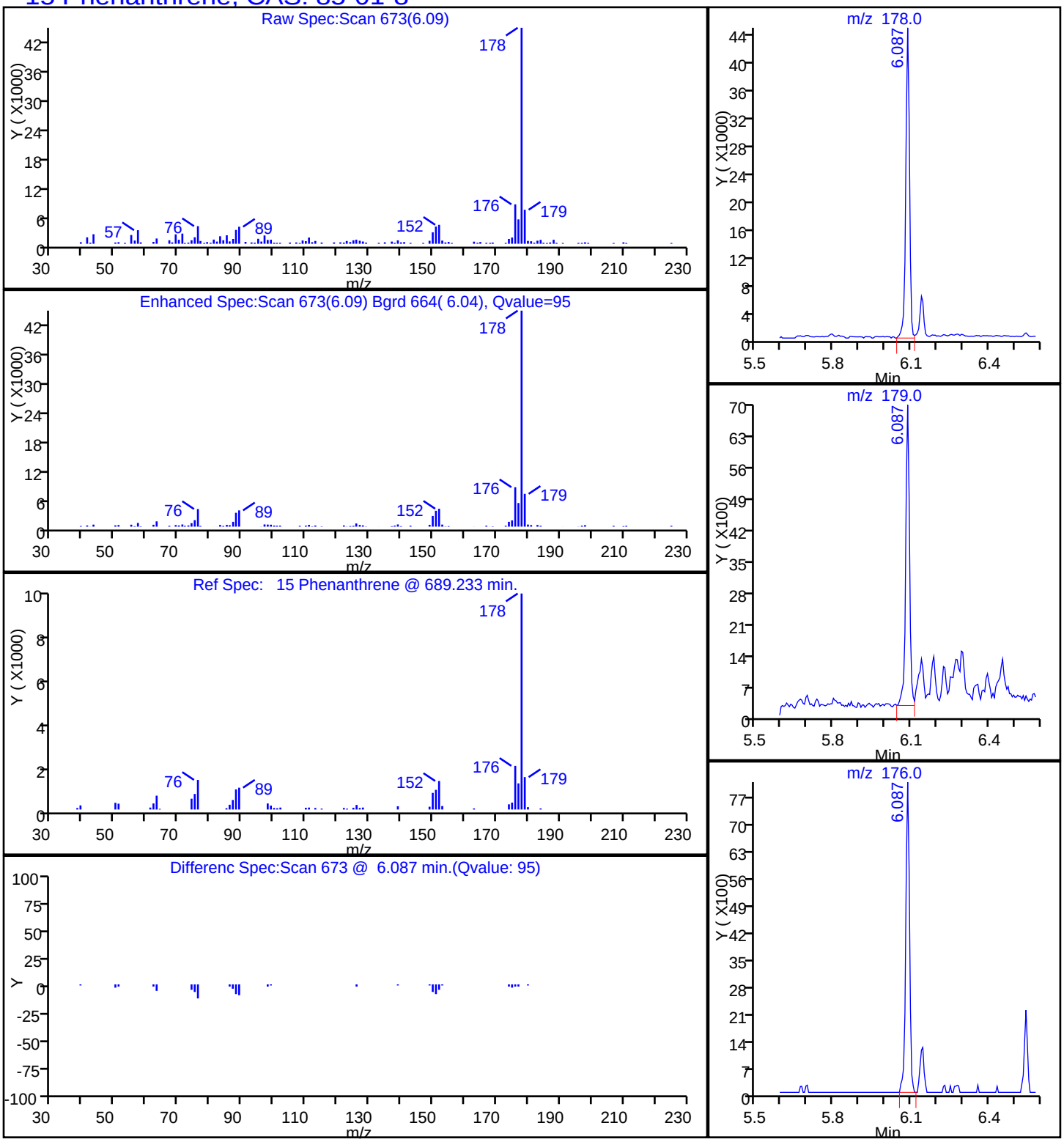
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1615.D | | | | |
| Injection Date: | 16-Oct-2014 17:00:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-25-A | Lab Sample ID: | 680-106200-25 | | |
| Client ID: | CV0005AC-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 14 | Worklist Smp#: | 15 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 15 Phenanthrene, CAS: 85-01-8

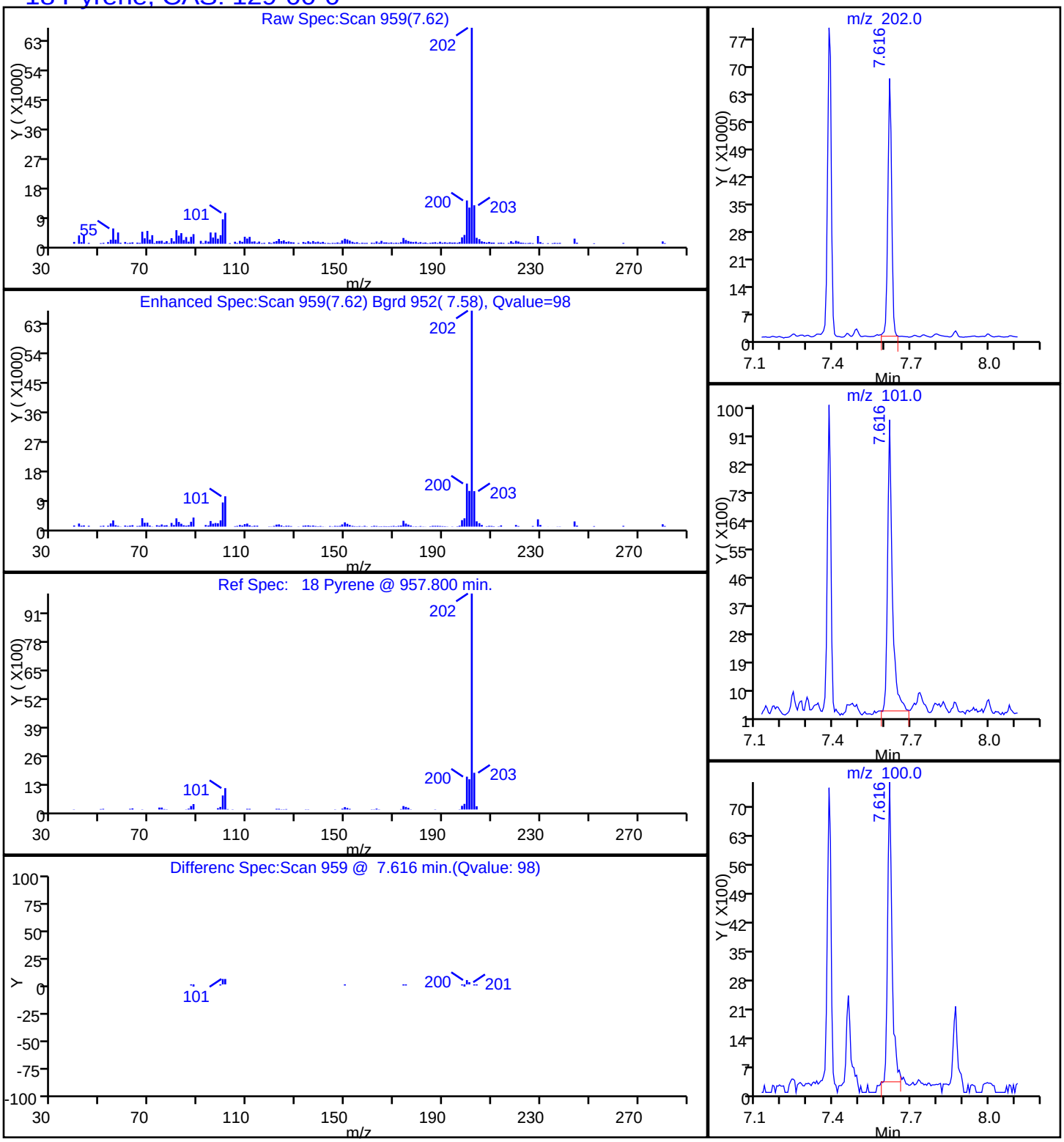


Report Date: 17-Oct-2014 08:59:17 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1615.D | | | | |
| Injection Date: | 16-Oct-2014 17:00:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-25-A | Lab Sample ID: | 680-106200-25 | | |
| Client ID: | CV0005AC-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 14 | Worklist Smp#: | 15 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 18 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

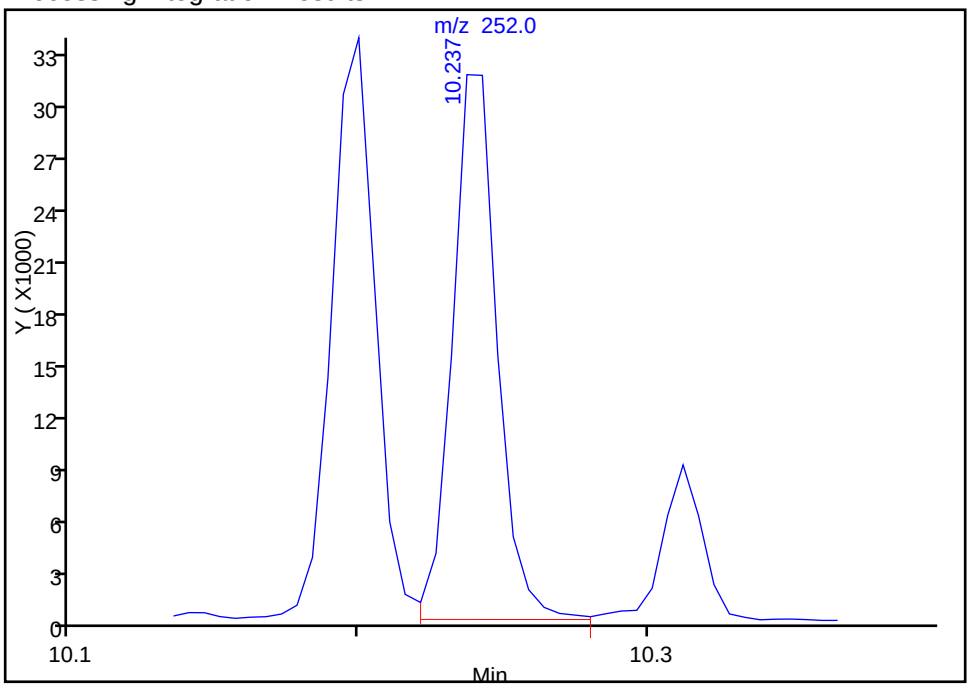
TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1615.D | | | | |
| Injection Date: | 16-Oct-2014 17:00:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-25-A | Lab Sample ID: | 680-106200-25 | | |
| Client ID: | CV0005AC-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 14 | Worklist Smp#: | 15 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

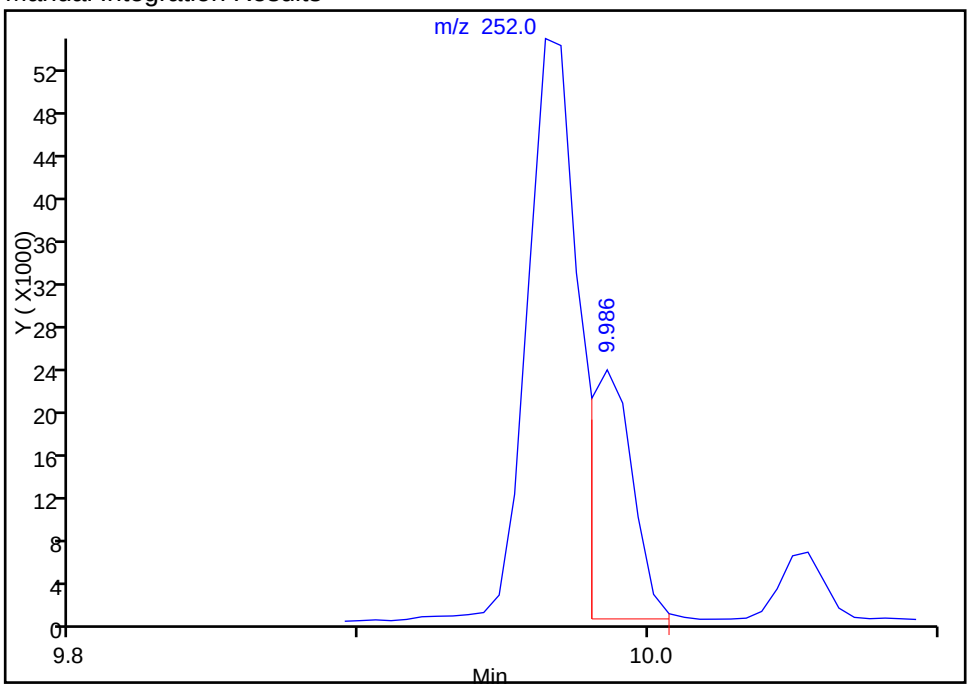
Processing Integration Results

RT: 10.24
Response: 33101
Amount: 0.522241




Manual Integration Results

RT: 9.99
Response: 24337
Amount: 0.383744




Reviewer: webbk, 17-Oct-2014 08:48:10
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0005AC-CS24 | Lab Sample ID: 680-106200-26

Matrix: Solid | Lab File ID: 1YJ1616.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 10:40

Extract. Method: 3546 | Date Extracted: 10/15/2014 10:01

Sample wt/vol: 30.02(g) | Date Analyzed: 10/16/2014 17:22

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 13.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353862 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 7.7 | U | 7.7 | 3.8 |
| 208-96-8 | Acenaphthylene | 7.7 | U | 7.7 | 3.8 |
| 120-12-7 | Anthracene | 7.7 | U | 7.7 | 3.8 |
| 56-55-3 | Benzo[a]anthracene | 5.1 | J | 7.7 | 3.8 |
| 50-32-8 | Benzo[a]pyrene | 5.7 | J | 7.7 | 1.4 |
| 205-99-2 | Benzo[b]fluoranthene | 8.6 | | 7.7 | 3.8 |
| 191-24-2 | Benzo[g,h,i]perylene | 5.5 | J | 7.7 | 3.8 |
| 207-08-9 | Benzo[k]fluoranthene | 3.2 | J | 7.7 | 2.3 |
| 218-01-9 | Chrysene | 7.0 | J | 7.7 | 3.8 |
| 53-70-3 | Dibenz(a,h)anthracene | 7.7 | U | 7.7 | 3.8 |
| 206-44-0 | Fluoranthene | 8.1 | | 7.7 | 3.8 |
| 86-73-7 | Fluorene | 7.7 | U | 7.7 | 3.8 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 4.4 | J | 7.7 | 3.8 |
| 90-12-0 | 1-Methylnaphthalene | 7.7 | U | 7.7 | 3.6 |
| 91-57-6 | 2-Methylnaphthalene | 7.7 | U | 7.7 | 3.8 |
| 91-20-3 | Naphthalene | 7.7 | U | 7.7 | 3.8 |
| 85-01-8 | Phenanthrene | 5.5 | J | 7.7 | 2.8 |
| 129-00-0 | Pyrene | 8.2 | | 7.7 | 3.8 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 87 | | 36-131 |

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1616.D
Lims ID: 680-106200-A-26-A Lab Sample ID: 680-106200-26
Client ID: CV0005AC-CS24
Sample Type: Client
Inject. Date: 16-Oct-2014 17:22:30 ALS Bottle#: 15 Worklist Smp#: 16
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 106200-A-26-A
Misc. Info.: 680-0013814-016
Operator ID: RM Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141016-13814.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 17-Oct-2014 08:59:05 Calib Date: 07-Oct-2014 15:41:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 17-Oct-2014 08:49:15

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.802 | 2.803 | -0.001 | 98 | 155973 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.492 | 4.487 | 0.005 | 90 | 88622 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.065 | 6.054 | 0.011 | 97 | 145545 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 8.932 | 8.927 | 0.005 | 99 | 116513 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.285 | 10.269 | 0.016 | 98 | 101638 | 2.00 | |
| $ 6 o-Terphenyl | 230 | 6.546 | 6.541 | 0.005 | 86 | 65032 | 1.74 | |
| 15 Phenanthrene | 178 | 6.086 | 6.081 | 0.005 | 84 | 12486 | 0.1433 | |
| 16 Anthracene | 178 | 6.140 | 6.135 | 0.005 | 50 | 1543 | 0.0178 | 7 |
| 17 Fluoranthene | 202 | 7.381 | 7.376 | 0.005 | 97 | 19565 | 0.2119 | |
| 18 Pyrene | 202 | 7.616 | 7.606 | 0.010 | 95 | 16314 | 0.2138 | |
| 19 Benzo[a]anthracene | 228 | 8.926 | 8.916 | 0.010 | 43 | 9102 | 0.1336 | |
| 20 Chrysene | 228 | 8.959 | 8.953 | 0.006 | 78 | 11842 | 0.1820 | |
| 21 Benzo[b]fluoranthene | 252 | 9.959 | 9.948 | 0.011 | 77 | 14974 | 0.2240 | |
| 22 Benzo[k]fluoranthene | 252 | 9.980 | 9.975 | 0.005 | 89 | 5501 | 0.0847 | M |
| 23 Benzo[a]pyrene | 252 | 10.232 | 10.221 | 0.011 | 94 | 8228 | 0.1496 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.125 | 11.109 | 0.016 | 95 | 7294 | 0.1140 | |
| 26 Benzo[g,h,i]perylene | 276 | 11.339 | 11.323 | 0.016 | 75 | 7159 | 0.1429 | |

## QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

## Reagents:

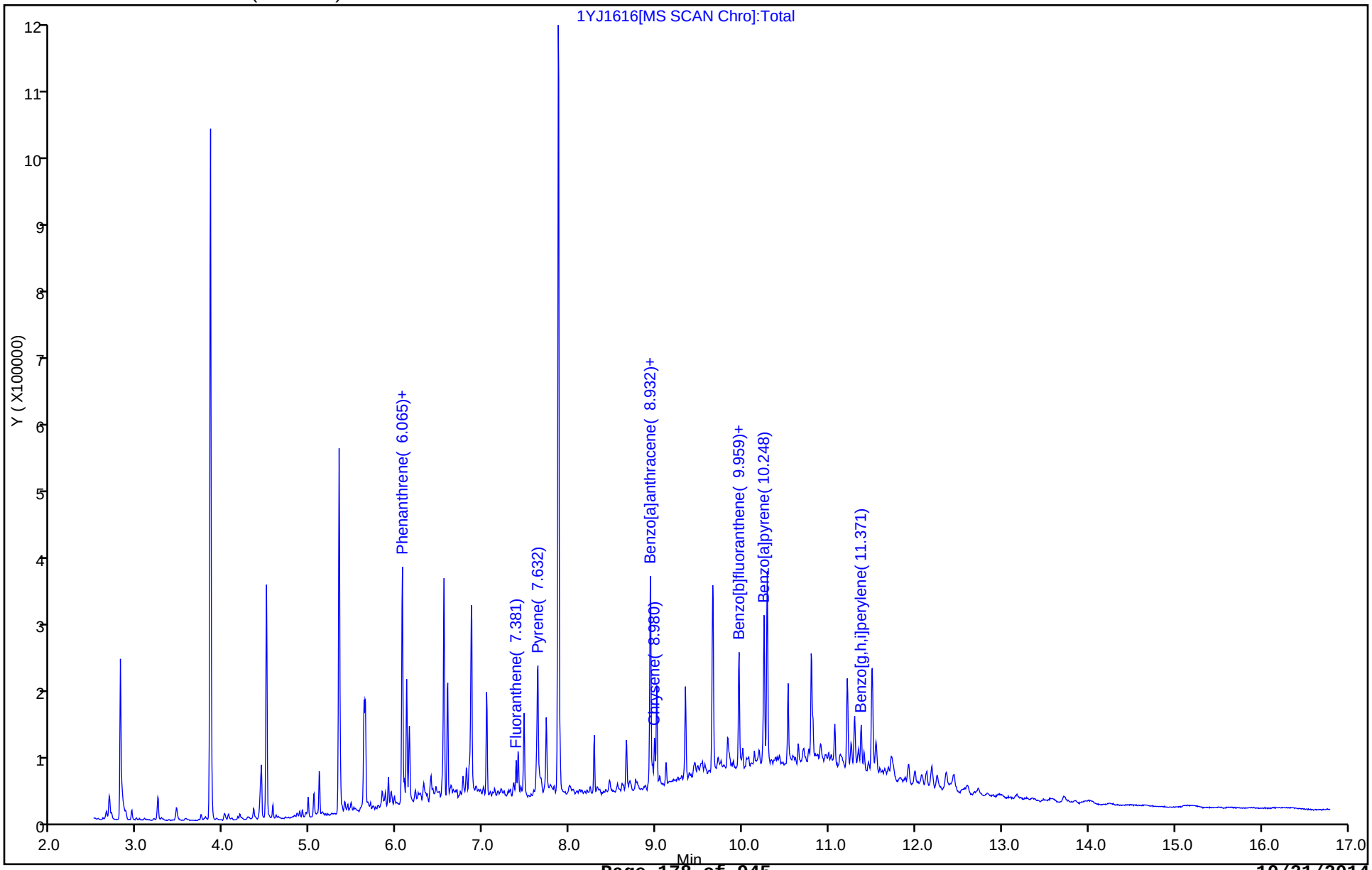
SM-LLISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 17-Oct-2014 08:59:16 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1616.D | | | | |
| Injection Date: | 16-Oct-2014 17:22:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | 680-106200-A-26-A | Lab Sample ID: | 680-106200-26 | Worklist Smp#: | 16 |
| Client ID: | CV0005AC-CS24 | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | ALS Bottle#: | 15 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)



Report Date: 17-Oct-2014 08:59:16 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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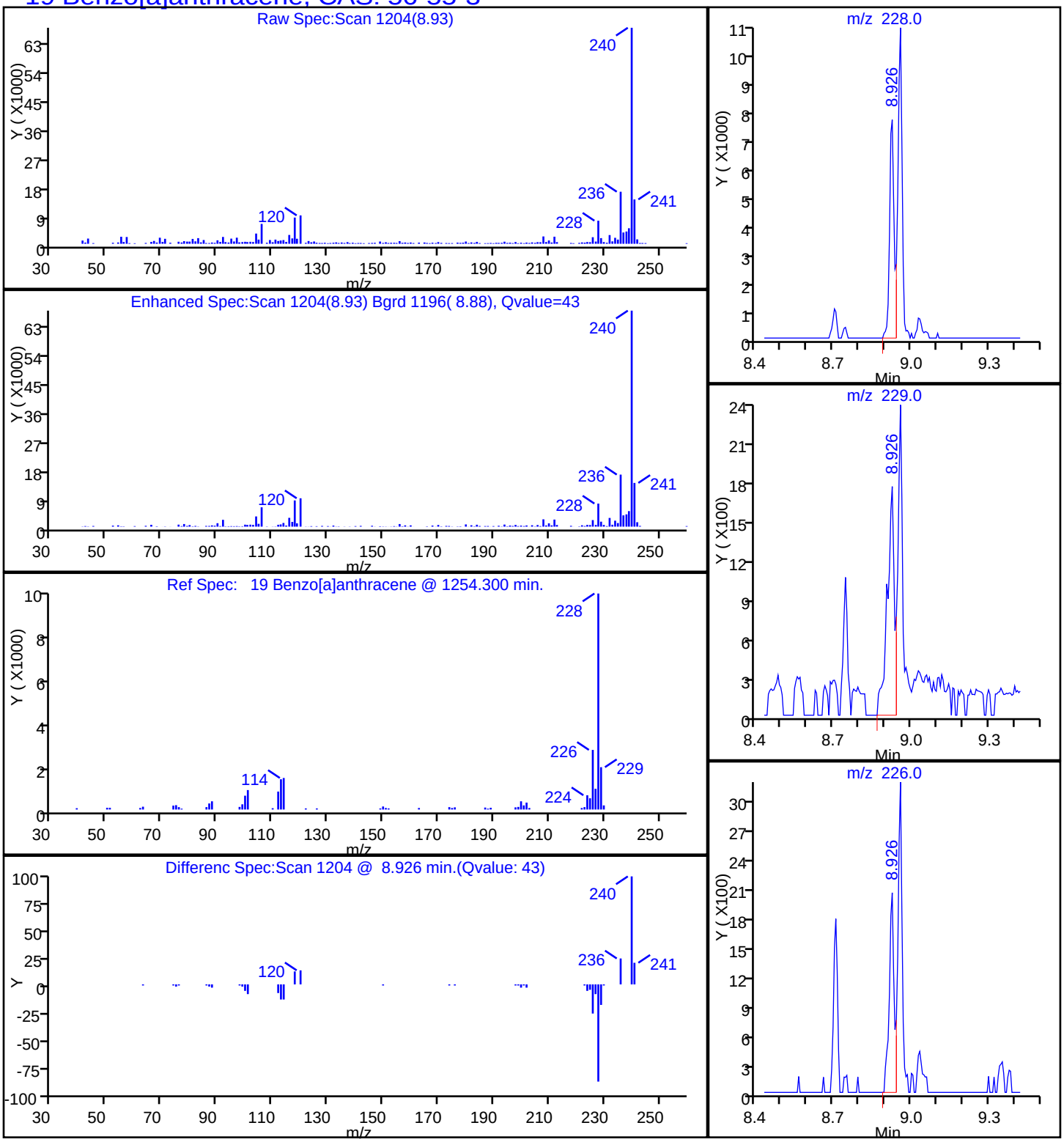
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1616.D | | | | |
| Injection Date: | 16-Oct-2014 17:22:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-26-A | Lab Sample ID: | 680-106200-26 | | |
| Client ID: | CV0005AC-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 15 | Worklist Smp#: | 16 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

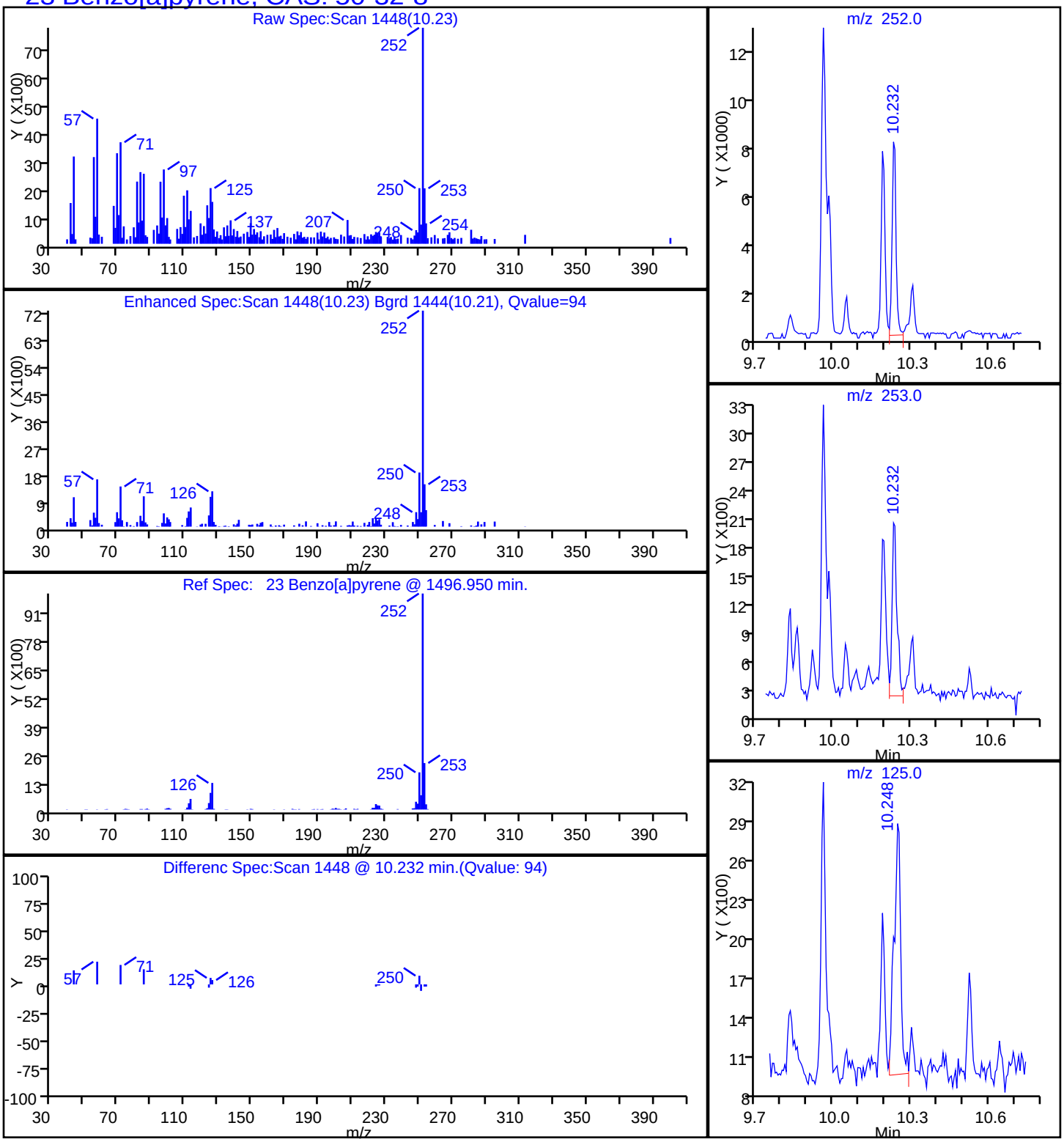


Report Date: 17-Oct-2014 08:59:16 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1616.D | | | | |
| Injection Date: | 16-Oct-2014 17:22:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-26-A | Lab Sample ID: | 680-106200-26 | | |
| Client ID: | CV0005AC-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 15 | Worklist Smp#: | 16 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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



Report Date: 17-Oct-2014 08:59:16 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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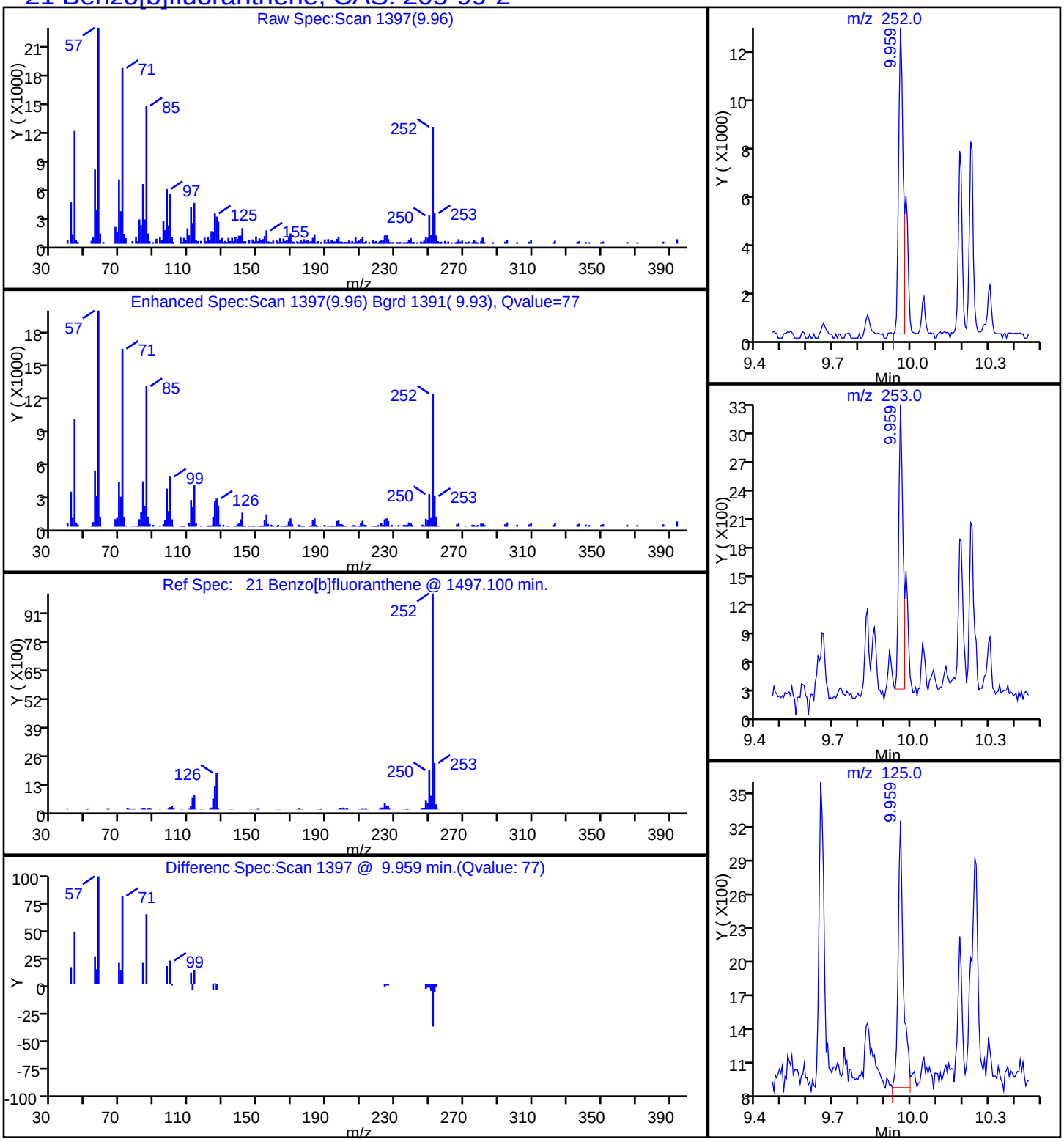
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1616.D | | | | |
| Injection Date: | 16-Oct-2014 17:22:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-26-A | Lab Sample ID: | 680-106200-26 | | |
| Client ID: | CV0005AC-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 15 | Worklist Smp#: | 16 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

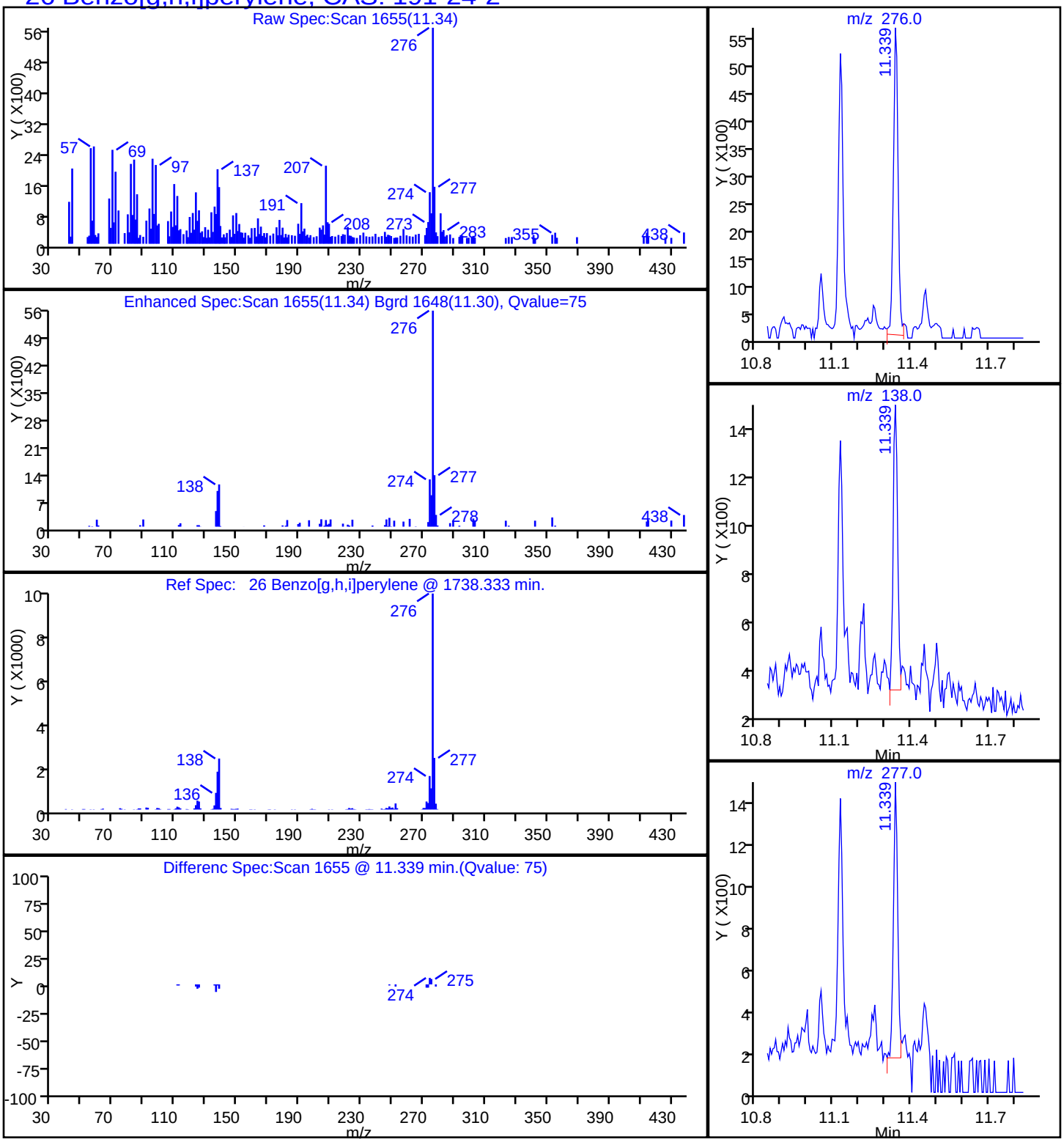


Report Date: 17-Oct-2014 08:59:16 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1616.D | | | | |
| Injection Date: | 16-Oct-2014 17:22:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-26-A | Lab Sample ID: | 680-106200-26 | | |
| Client ID: | CV0005AC-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 15 | Worklist Smp#: | 16 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

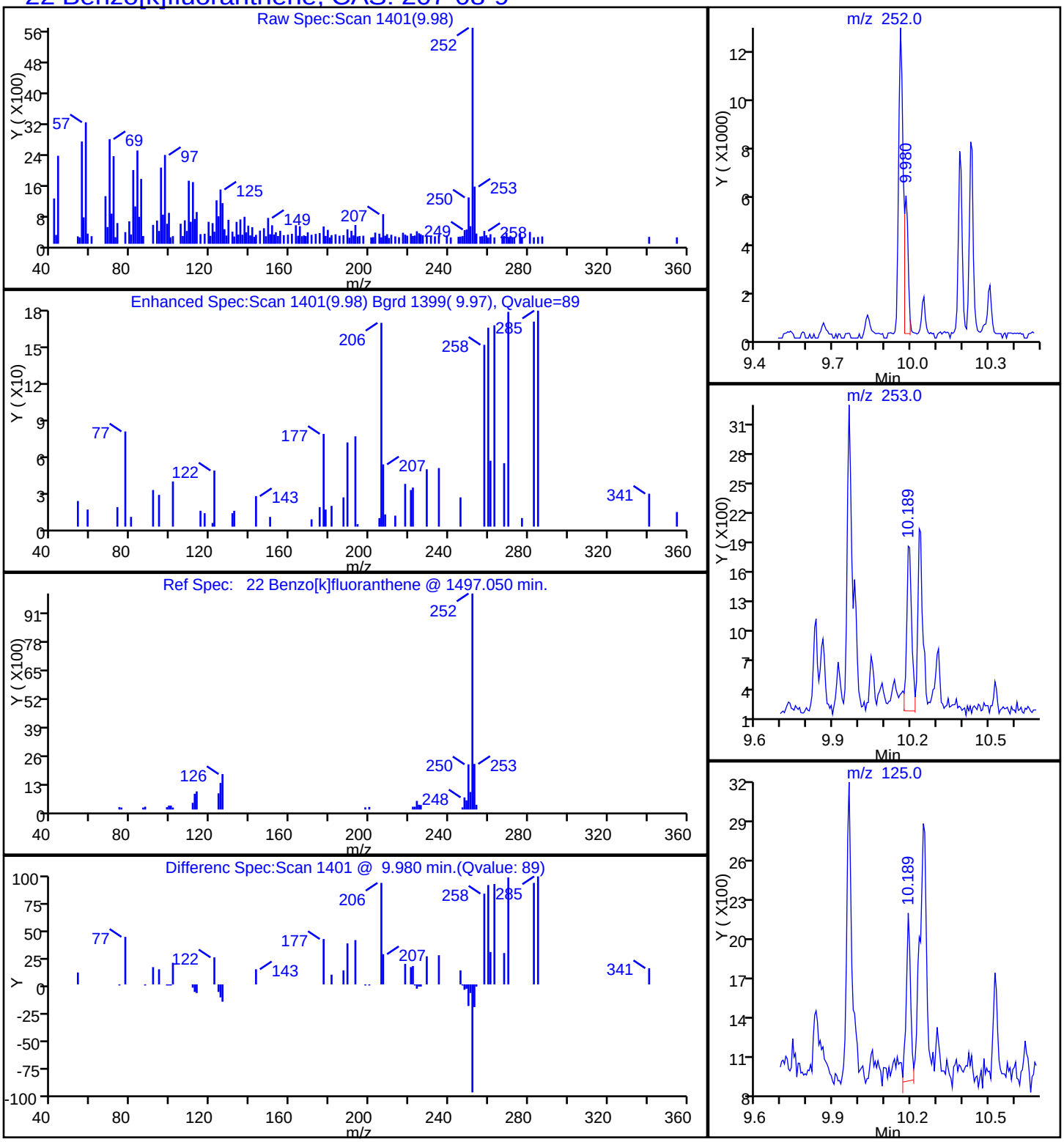


Report Date: 17-Oct-2014 08:59:16 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1616.D | | | | |
| Injection Date: | 16-Oct-2014 17:22:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-26-A | Lab Sample ID: | 680-106200-26 | | |
| Client ID: | CV0005AC-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 15 | Worklist Smp#: | 16 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

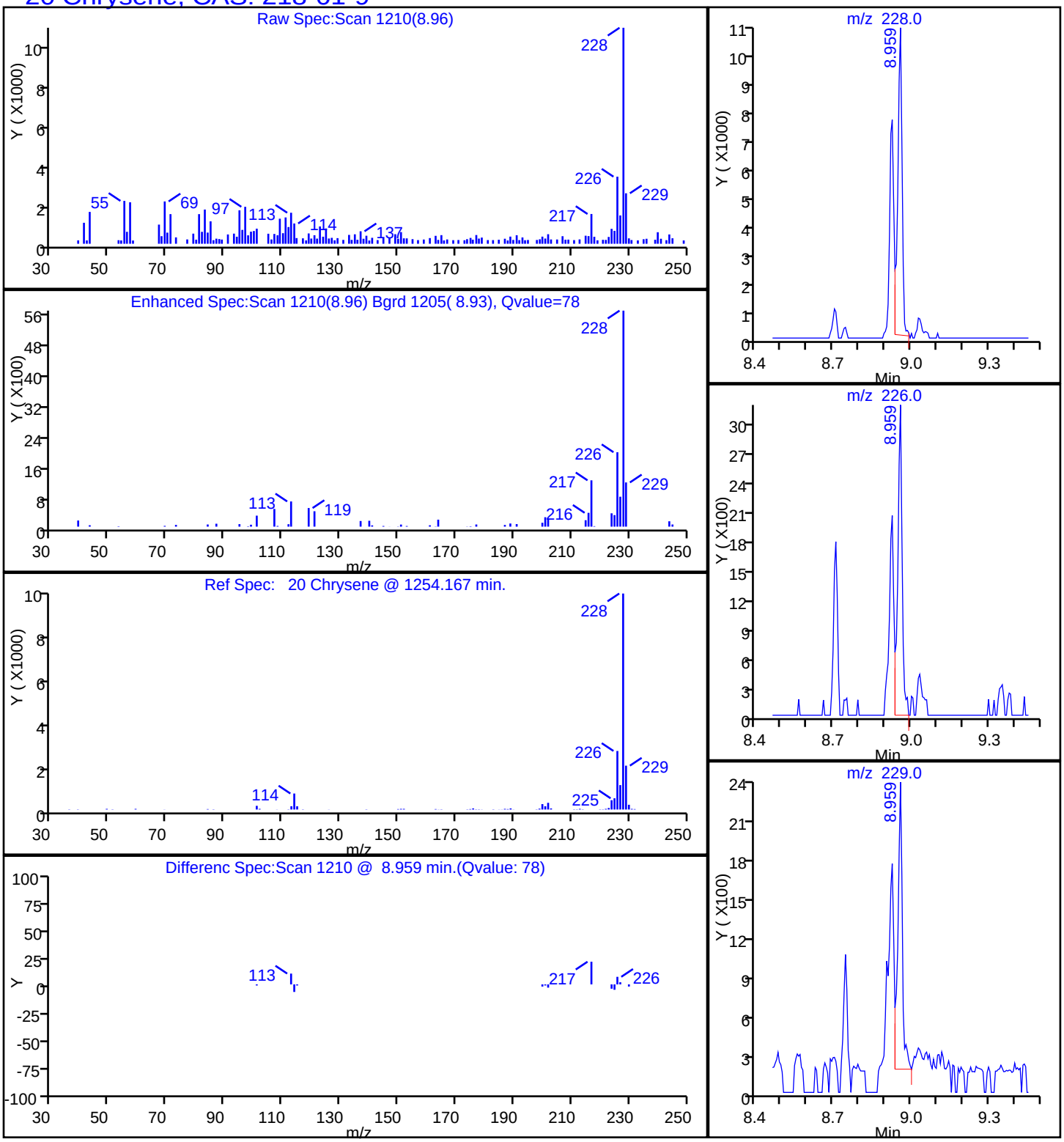


Report Date: 17-Oct-2014 08:59:16 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1616.D | | | | |
| Injection Date: | 16-Oct-2014 17:22:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-26-A | Lab Sample ID: | 680-106200-26 | | |
| Client ID: | CV0005AC-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 15 | Worklist Smp#: | 16 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 20 Chrysene, CAS: 218-01-9

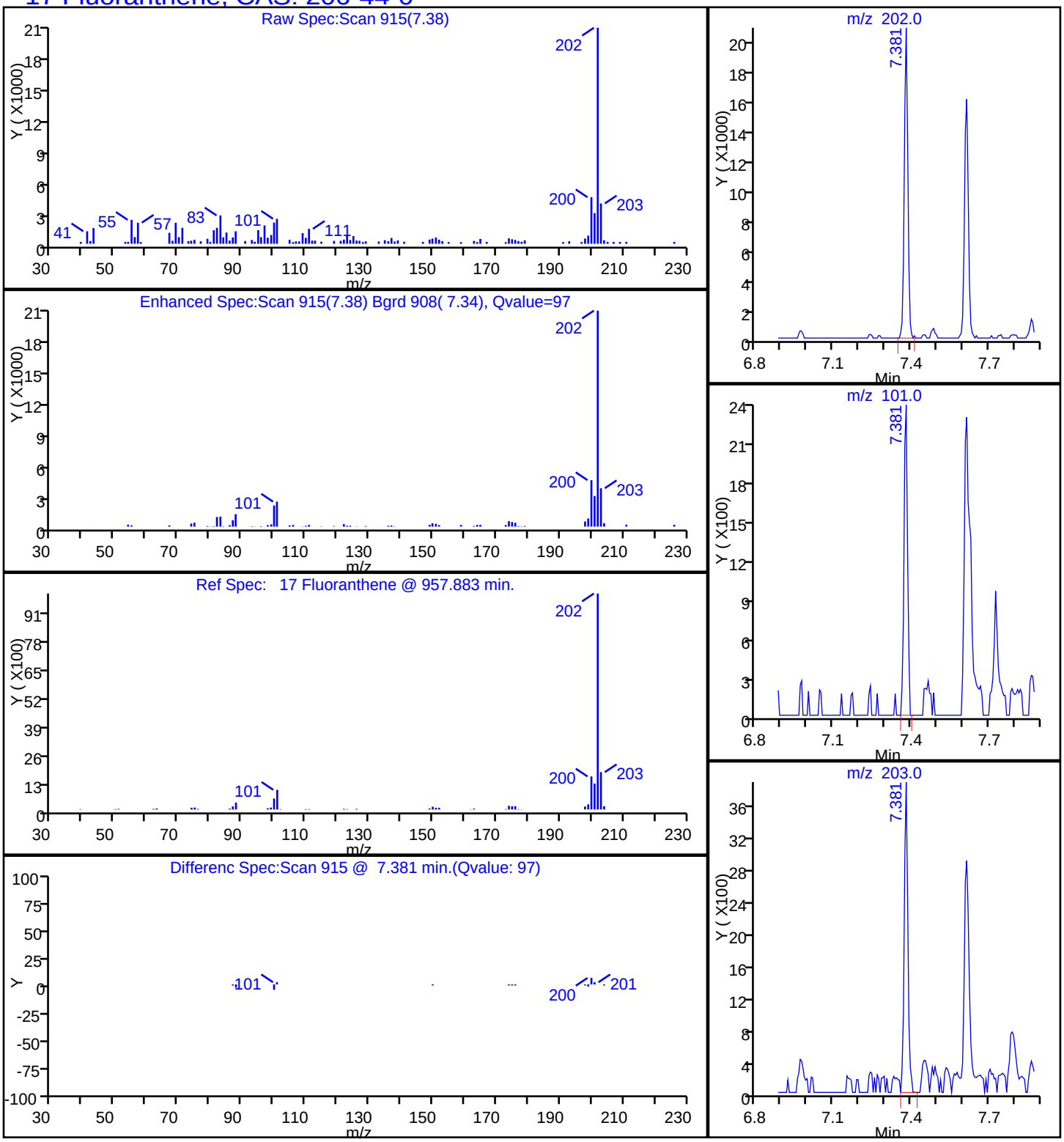


Report Date: 17-Oct-2014 08:59:16 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1616.D | | | | |
| Injection Date: | 16-Oct-2014 17:22:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-26-A | Lab Sample ID: | 680-106200-26 | | |
| Client ID: | CV0005AC-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 15 | Worklist Smp#: | 16 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

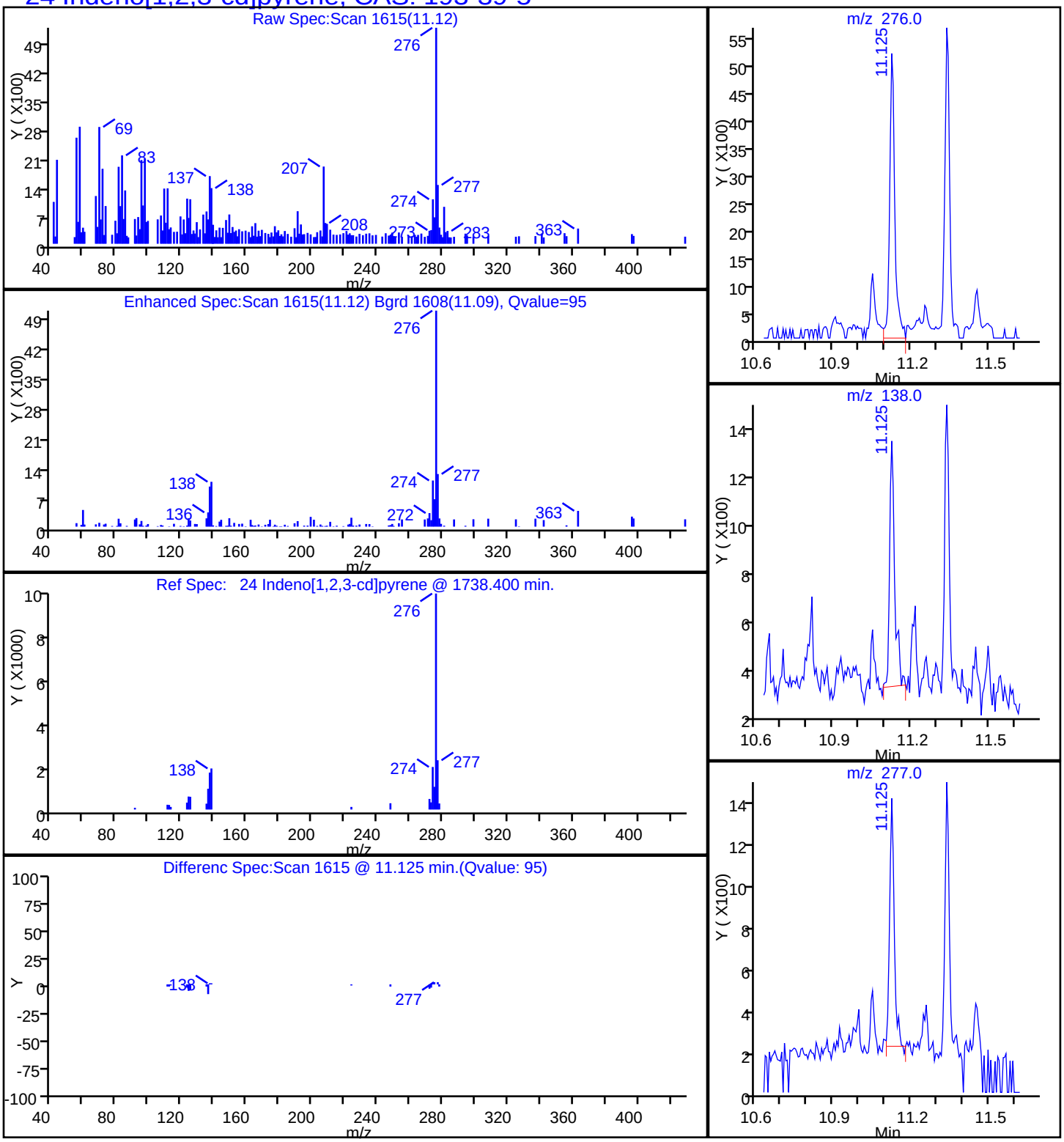


Report Date: 17-Oct-2014 08:59:16 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1616.D | | | | |
| Injection Date: | 16-Oct-2014 17:22:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-26-A | Lab Sample ID: | 680-106200-26 | | |
| Client ID: | CV0005AC-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 15 | Worklist Smp#: | 16 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

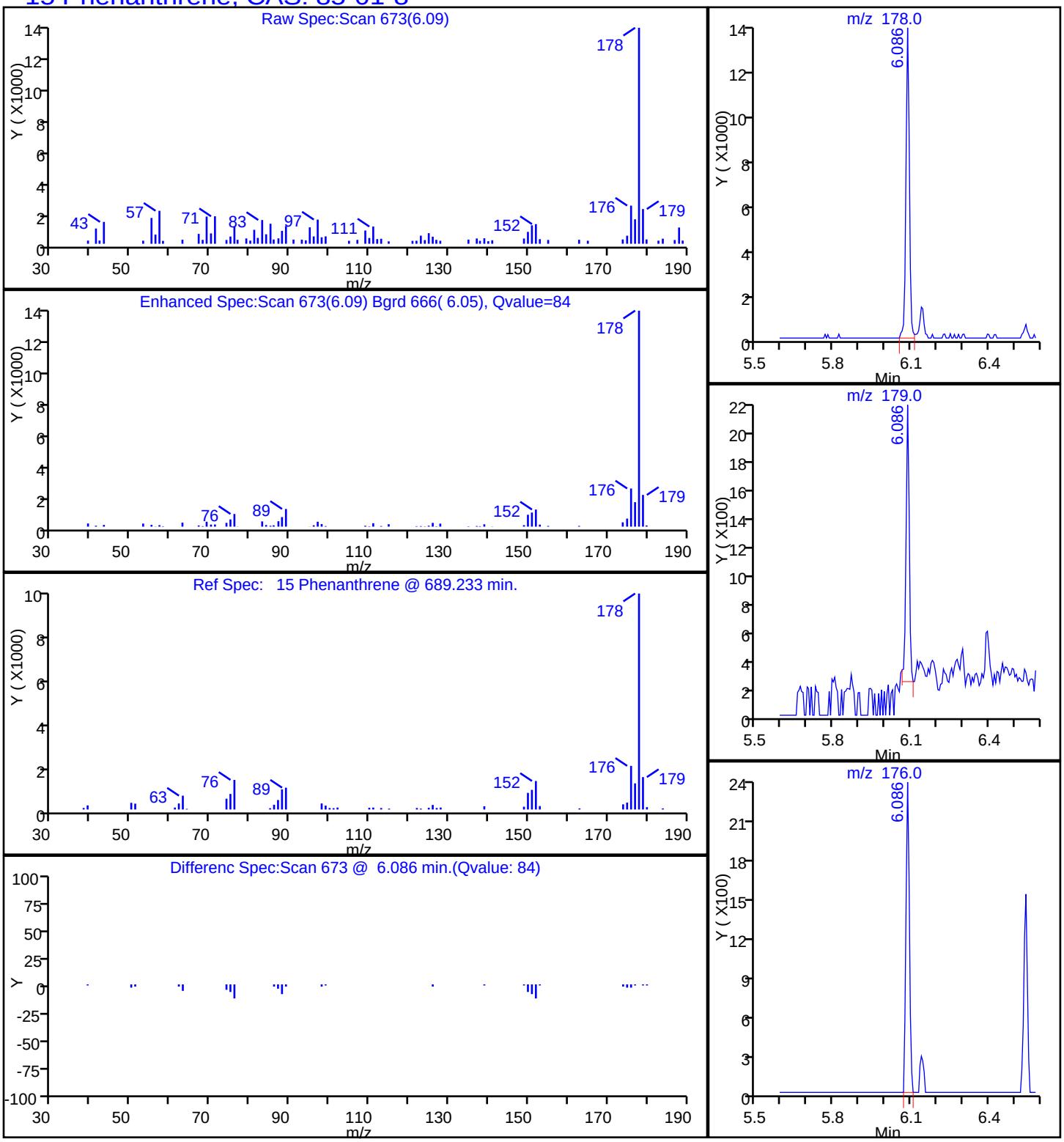


Report Date: 17-Oct-2014 08:59:16 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1616.D | | | | |
| Injection Date: | 16-Oct-2014 17:22:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-26-A | Lab Sample ID: | 680-106200-26 | | |
| Client ID: | CV0005AC-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 15 | Worklist Smp#: | 16 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 15 Phenanthrene, CAS: 85-01-8

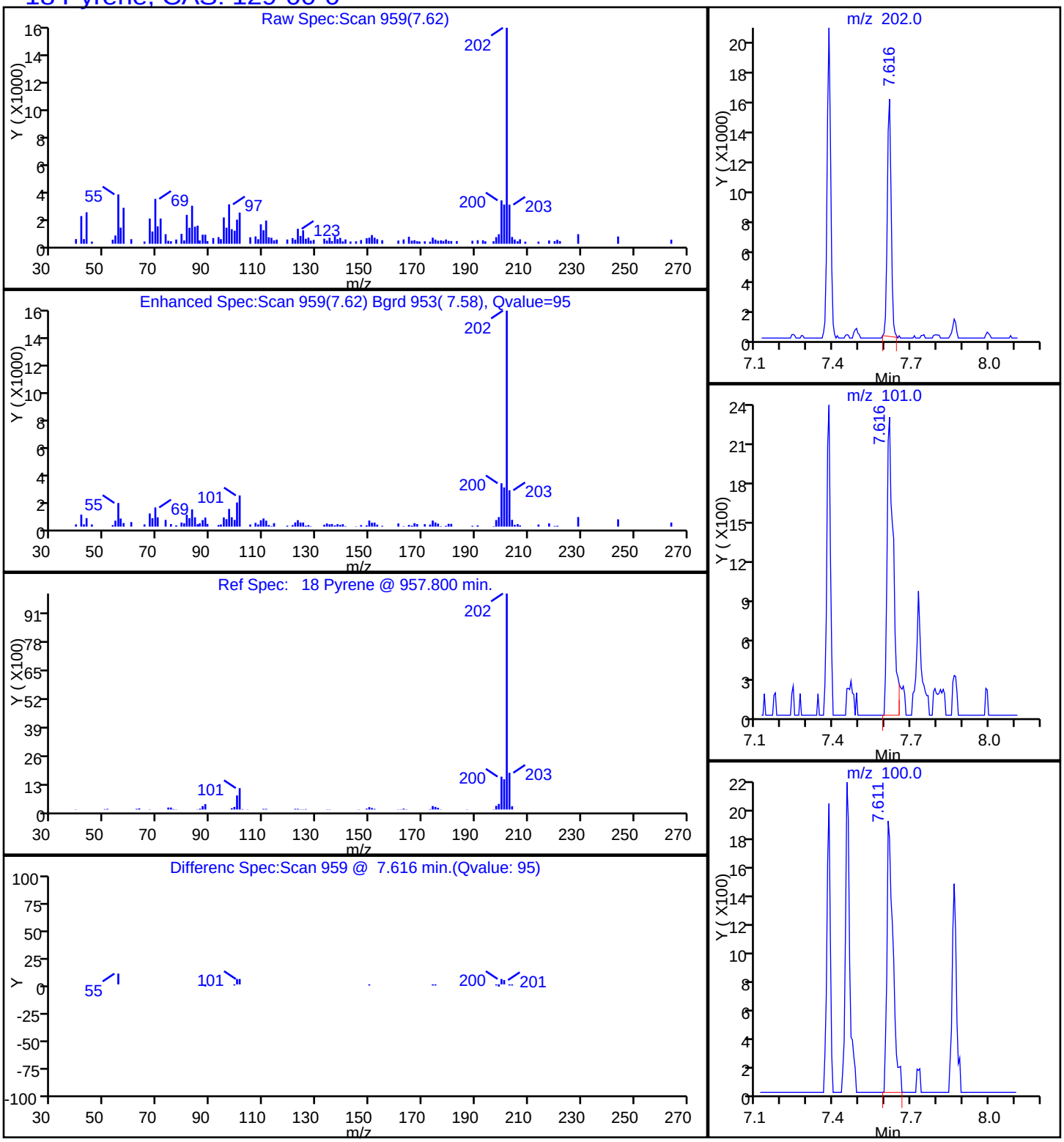


Report Date: 17-Oct-2014 08:59:16 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1616.D | | | | |
| Injection Date: | 16-Oct-2014 17:22:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-26-A | Lab Sample ID: | 680-106200-26 | | |
| Client ID: | CV0005AC-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 15 | Worklist Smp#: | 16 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 18 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

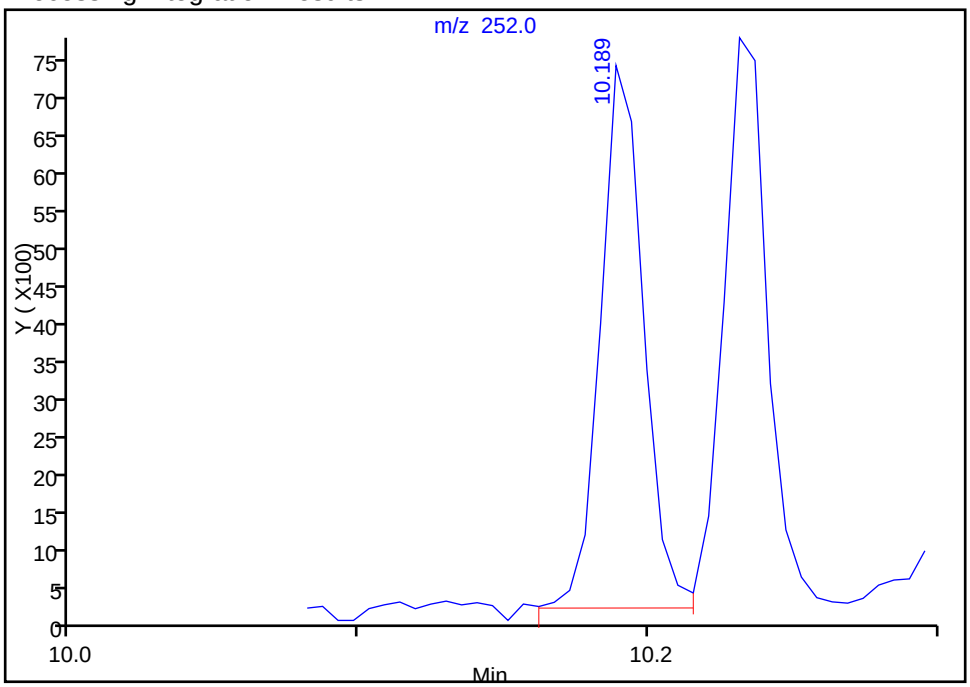
TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1616.D | | | | |
| Injection Date: | 16-Oct-2014 17:22:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-26-A | Lab Sample ID: | 680-106200-26 | | |
| Client ID: | CV0005AC-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 15 | Worklist Smp#: | 16 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

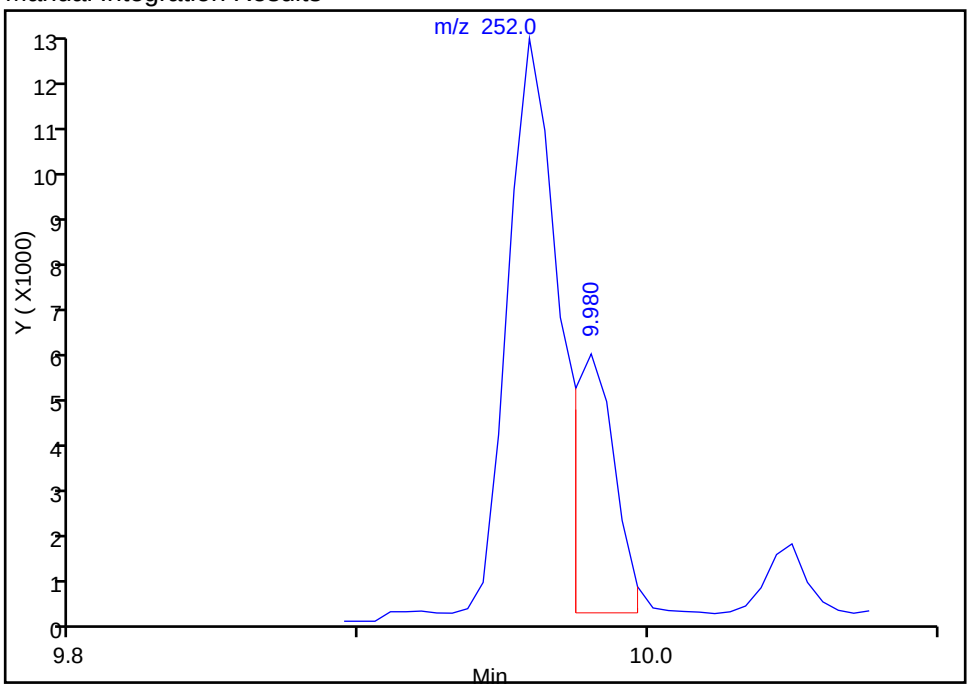
Processing Integration Results

RT: 10.19
Response: 7506
Amount: 0.115527




Manual Integration Results

RT: 9.98
Response: 5501
Amount: 0.084656




Reviewer: webbk, 17-Oct-2014 08:49:15
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0748WW-CS6 | Lab Sample ID: 680-106200-27

Matrix: Solid | Lab File ID: 1YJ1617.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 12:40

Extract. Method: 3546 | Date Extracted: 10/15/2014 10:01

Sample wt/vol: 30.02(g) | Date Analyzed: 10/16/2014 17:44

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 9.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353862 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 74 | U | 74 | 37 |
| 208-96-8 | Acenaphthylene | 58 | J | 74 | 37 |
| 120-12-7 | Anthracene | 120 | | 74 | 37 |
| 56-55-3 | Benzo[a]anthracene | 510 | | 74 | 37 |
| 50-32-8 | Benzo[a]pyrene | 430 | | 74 | 13 |
| 205-99-2 | Benzo[b]fluoranthene | 620 | | 74 | 37 |
| 191-24-2 | Benzo[g,h,i]perylene | 300 | | 74 | 37 |
| 207-08-9 | Benzo[k]fluoranthene | 260 | | 74 | 22 |
| 218-01-9 | Chrysene | 560 | | 74 | 37 |
| 53-70-3 | Dibenz(a,h)anthracene | 150 | | 74 | 37 |
| 206-44-0 | Fluoranthene | 1100 | | 74 | 37 |
| 86-73-7 | Fluorene | 50 | J | 74 | 37 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 240 | | 74 | 37 |
| 90-12-0 | 1-Methylnaphthalene | 49 | J | 74 | 34 |
| 91-57-6 | 2-Methylnaphthalene | 59 | J | 74 | 37 |
| 91-20-3 | Naphthalene | 43 | J | 74 | 37 |
| 85-01-8 | Phenanthrene | 690 | | 74 | 27 |
| 129-00-0 | Pyrene | 970 | | 74 | 37 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 0 | D | 36-131 |

TestAmerica Savannah
Target Compound Quantitation Report

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1617.D | | | | |
| Lims ID: | 680-106200-A-27-A | Lab Sample ID: | 680-106200-27 | | |
| Client ID: | CV0748WW-CS6 | | | | |
| Sample Type: | Client | | | | |
| Inject. Date: | 16-Oct-2014 17:44:30 | ALS Bottle#: | 16 | Worklist Smp#: | 17 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Sample Info: | 106200-A-27-A 1:10 | | | | |
| Misc. Info.: | 680-0013814-017 | | | | |
| Operator ID: | RM | Instrument ID: | CMSY | | |

| | | | |
|---|---|---|---|
| Method: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\8270D_LLPAH_MSY.m | | |
| Limit Group: | 8270D_LL_PAH | | |
| Last Update: | 17-Oct-2014 08:59:05 | Calib Date: | 07-Oct-2014 15:41:30 |
| Integrator: | RTE | ID Type: | RT Order ID |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D | | |

| | | |
|---|---|---|
| Column 1 : | Restek RXi-5Sil MS ( 0.25 mm) | Det: MS SCAN |
| Process Host: | XAWRK009 | |

First Level Reviewer: webbk Date: 17-Oct-2014 08:49:55

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.802 | 2.803 | -0.001 | 98 | 130325 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.493 | 4.487 | 0.006 | 91 | 70830 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.060 | 6.054 | 0.006 | 97 | 122363 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 8.932 | 8.927 | 0.005 | 99 | 101977 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.285 | 10.269 | 0.016 | 98 | 84485 | 2.00 | |
| 7 Naphthalene | 128 | 2.824 | 2.819 | 0.005 | 71 | 8264 | 0.1163 | |
| 8 2-Methylnaphthalene | 142 | 3.460 | 3.455 | 0.005 | 63 | 7484 | 0.1588 | |
| 9 1-Methylnaphthalene | 142 | 3.551 | 3.546 | 0.005 | 31 | 5764 | 0.1319 | |
| 11 Acenaphthylene | 152 | 4.343 | 4.338 | 0.005 | 80 | 10840 | 0.1579 | |
| 14 Fluorene | 166 | 5.070 | 5.065 | 0.005 | 63 | 6545 | 0.1344 | |
| 15 Phenanthrene | 178 | 6.087 | 6.081 | 0.005 | 95 | 136305 | 1.86 | |
| 16 Anthracene | 178 | 6.140 | 6.135 | 0.005 | 92 | 22857 | 0.3138 | |
| 17 Fluoranthene | 202 | 7.381 | 7.376 | 0.005 | 98 | 224511 | 2.89 | |
| 18 Pyrene | 202 | 7.616 | 7.606 | 0.010 | 97 | 175240 | 2.63 | |
| 19 Benzo[a]anthracene | 228 | 8.927 | 8.916 | 0.011 | 97 | 82822 | 1.39 | |
| 20 Chrysene | 228 | 8.959 | 8.953 | 0.006 | 93 | 85222 | 1.51 | |
| 21 Benzo[b]fluoranthene | 252 | 9.959 | 9.948 | 0.011 | 98 | 92584 | 1.67 | |
| 22 Benzo[k]fluoranthene | 252 | 9.980 | 9.975 | 0.005 | 98 | 37301 | 0.6924 | M |
| 23 Benzo[a]pyrene | 252 | 10.232 | 10.221 | 0.011 | 96 | 53663 | 1.17 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.125 | 11.109 | 0.016 | 99 | 35813 | 0.6397 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.152 | 11.136 | 0.016 | 85 | 16626 | 0.4162 | |
| 26 Benzo[g,h,i]perylene | 276 | 11.344 | 11.323 | 0.021 | 83 | 34000 | 0.8157 | |

## QC Flag Legend

Review Flags

M - Manually Integrated

## Reagents:

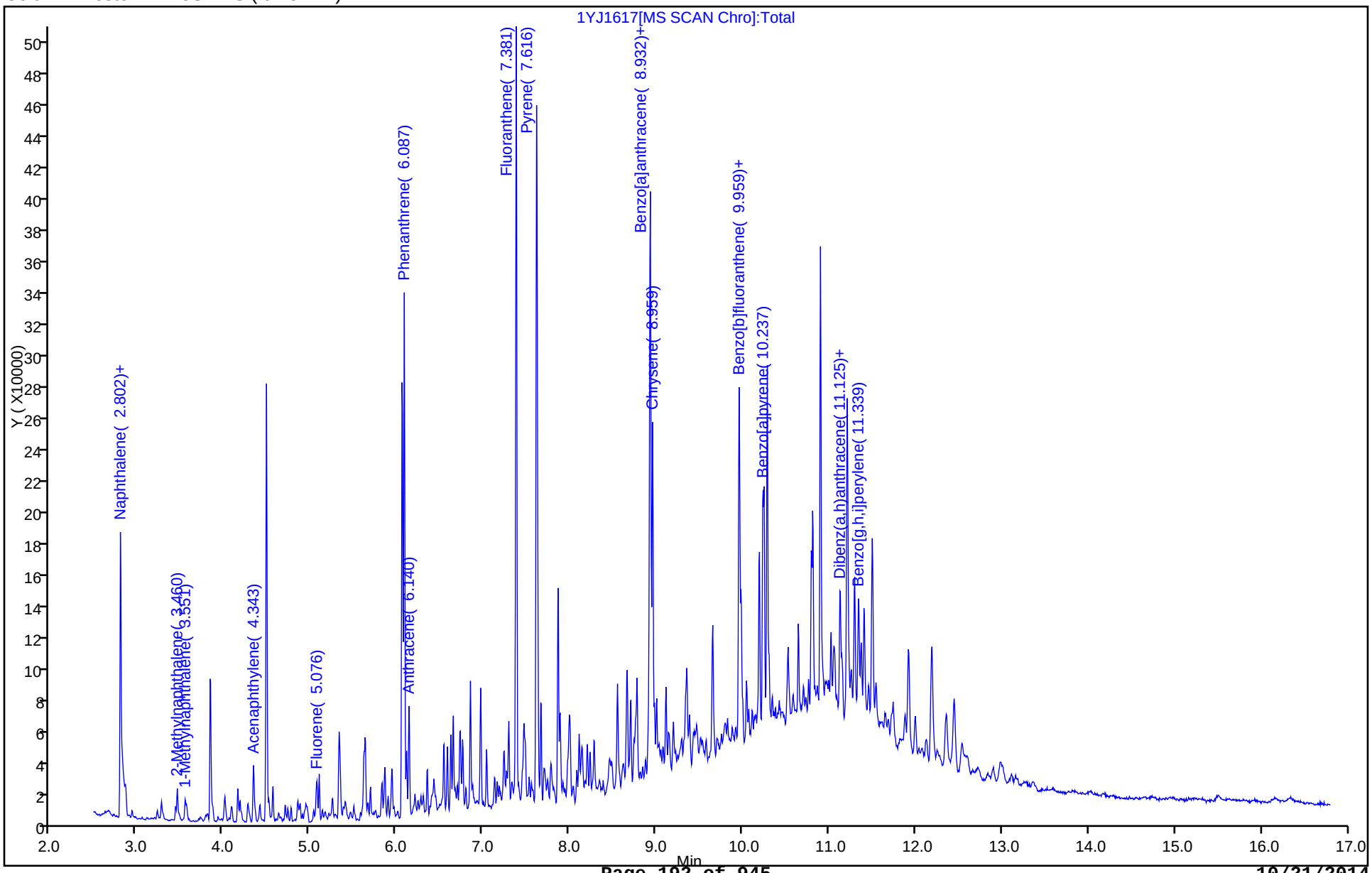
SM-LLISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 17-Oct-2014 08:59:14 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1617.D | | | | |
| Injection Date: | 16-Oct-2014 17:44:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | 680-106200-A-27-A | Lab Sample ID: | 680-106200-27 | Worklist Smp#: | 17 |
| Client ID: | CV0748WW-CS6 | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | ALS Bottle#: | 16 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)

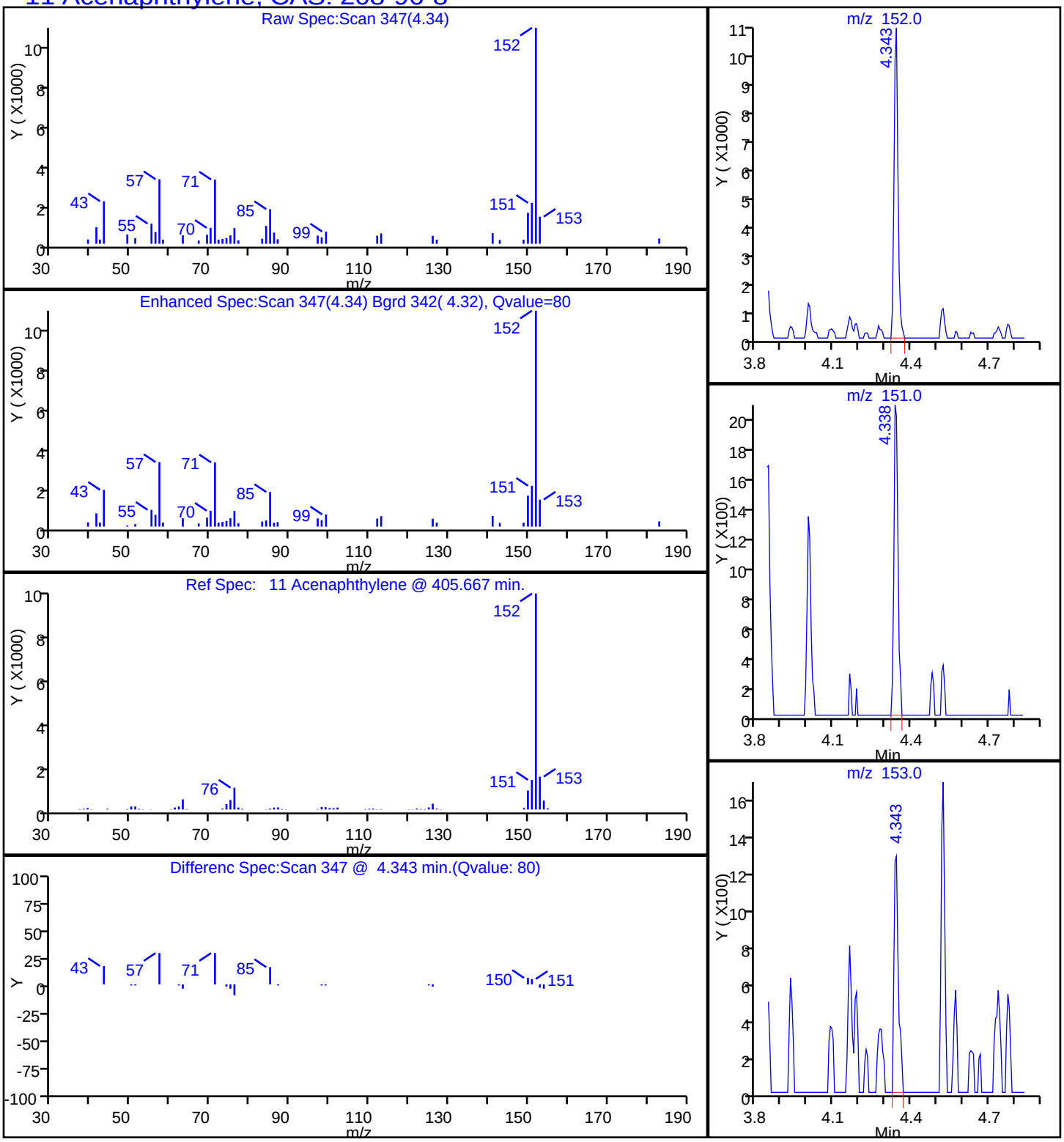


Report Date: 17-Oct-2014 08:59:15 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1617.D | | | | |
| Injection Date: | 16-Oct-2014 17:44:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-27-A | Lab Sample ID: | 680-106200-27 | | |
| Client ID: | CV0748WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 16 | Worklist Smp#: | 17 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 11 Acenaphthylene, CAS: 208-96-8

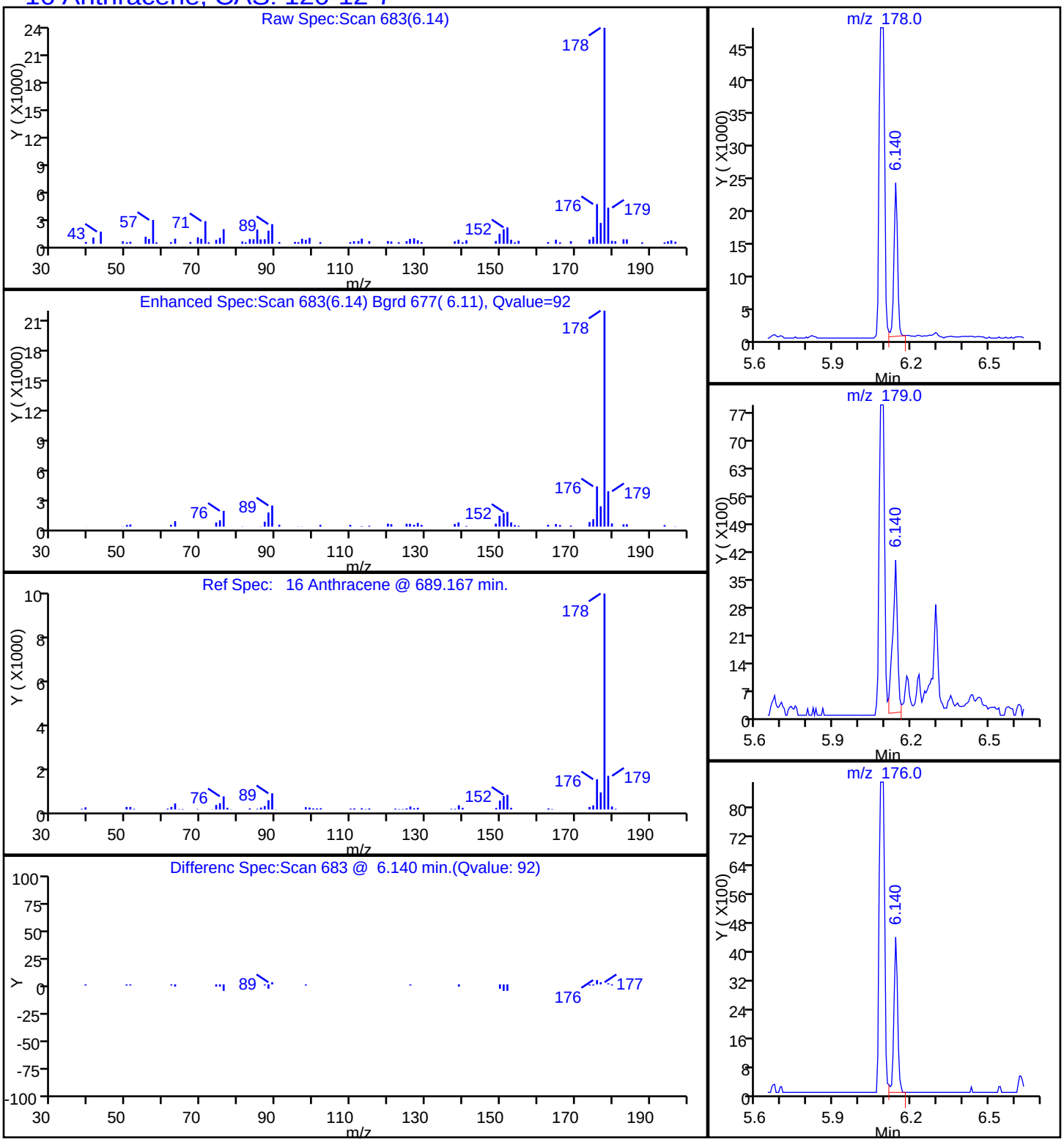


Report Date: 17-Oct-2014 08:59:15 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1617.D | | | | |
| Injection Date: | 16-Oct-2014 17:44:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-27-A | Lab Sample ID: | 680-106200-27 | | |
| Client ID: | CV0748WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 16 | Worklist Smp#: | 17 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 16 Anthracene, CAS: 120-12-7

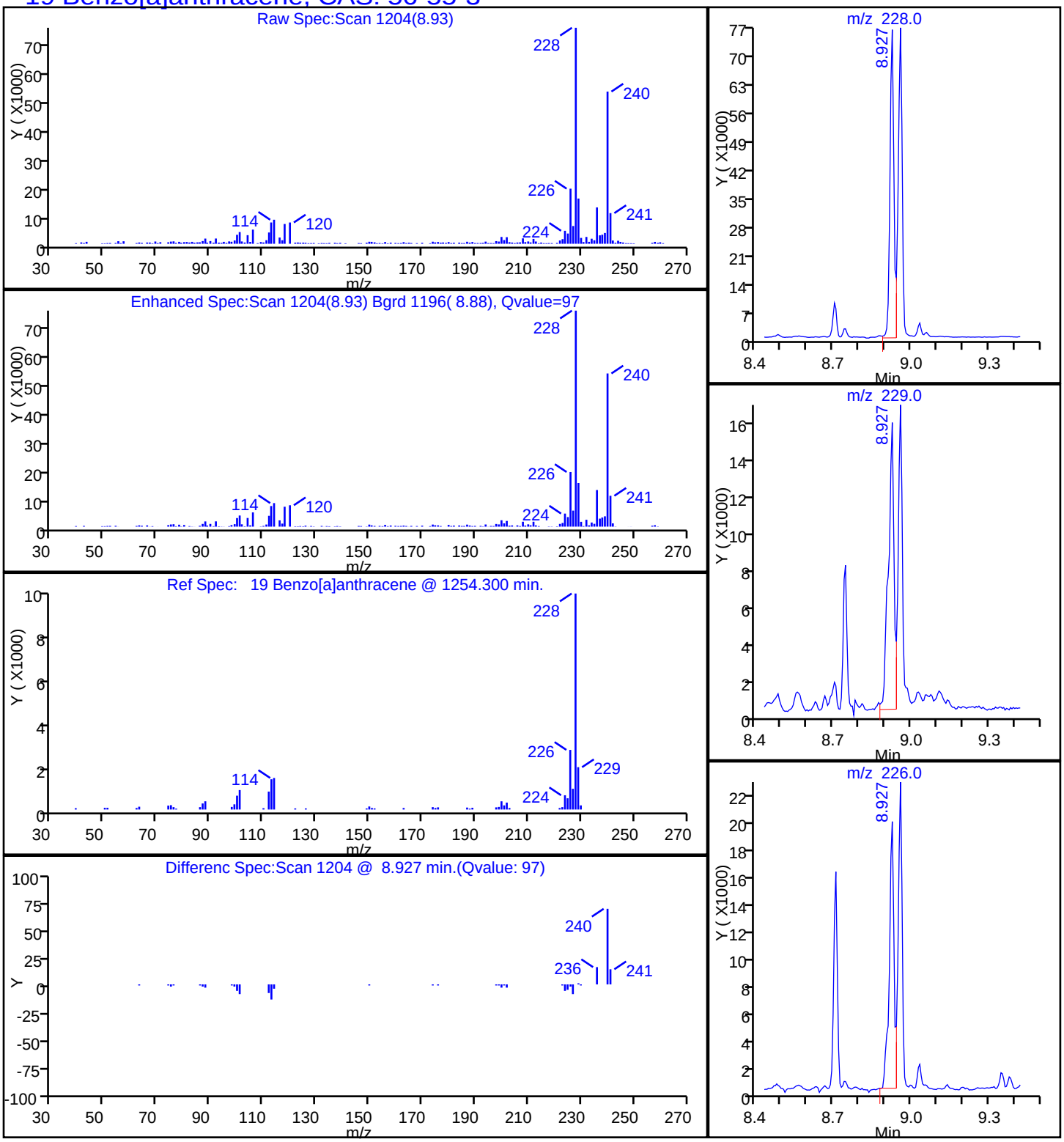


Report Date: 17-Oct-2014 08:59:15 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1617.D | | | | |
| Injection Date: | 16-Oct-2014 17:44:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-27-A | Lab Sample ID: | 680-106200-27 | | |
| Client ID: | CV0748WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 16 | Worklist Smp#: | 17 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

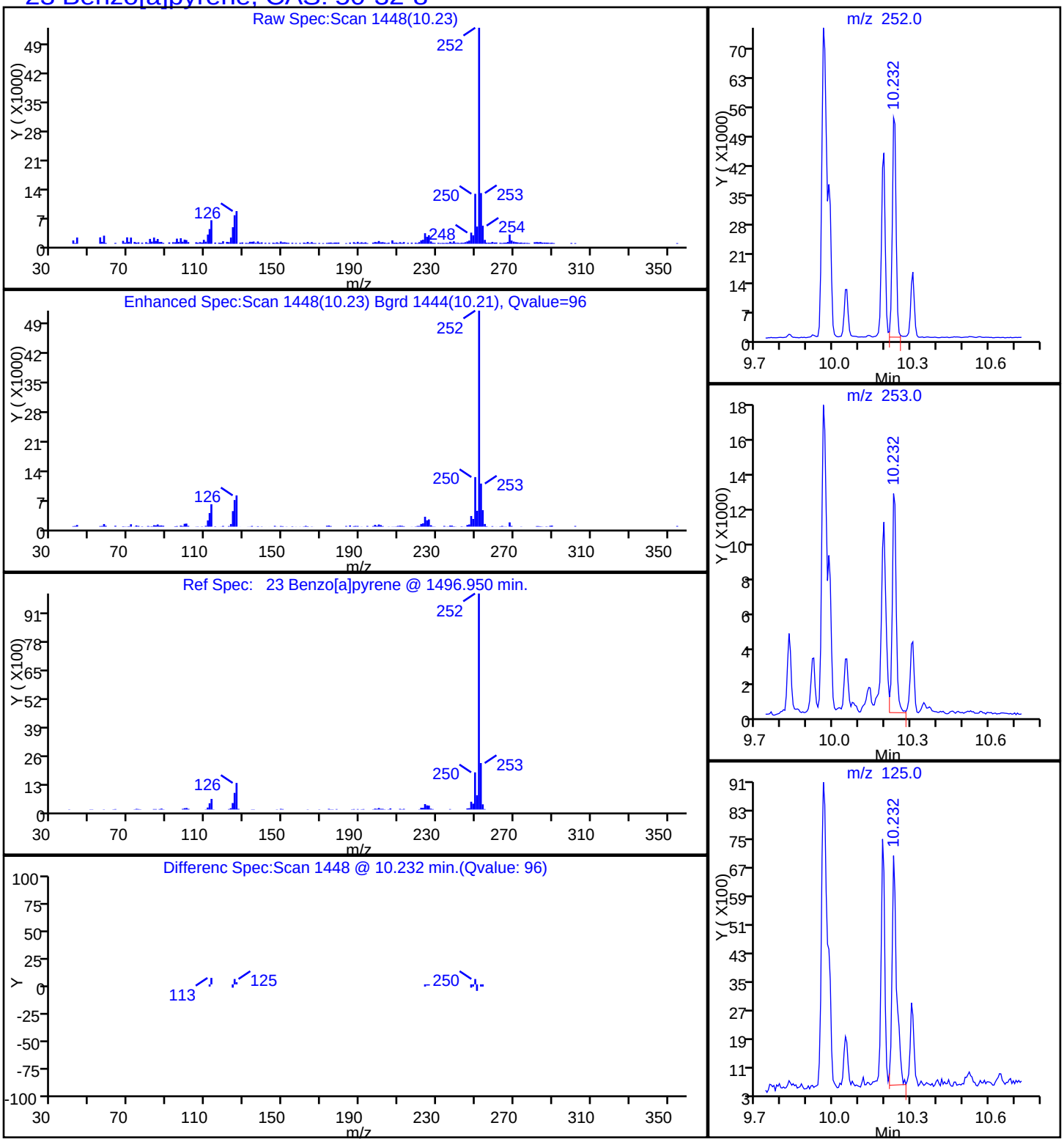


Report Date: 17-Oct-2014 08:59:15 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1617.D | | | | |
| Injection Date: | 16-Oct-2014 17:44:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-27-A | Lab Sample ID: | 680-106200-27 | | |
| Client ID: | CV0748WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 16 | Worklist Smp#: | 17 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

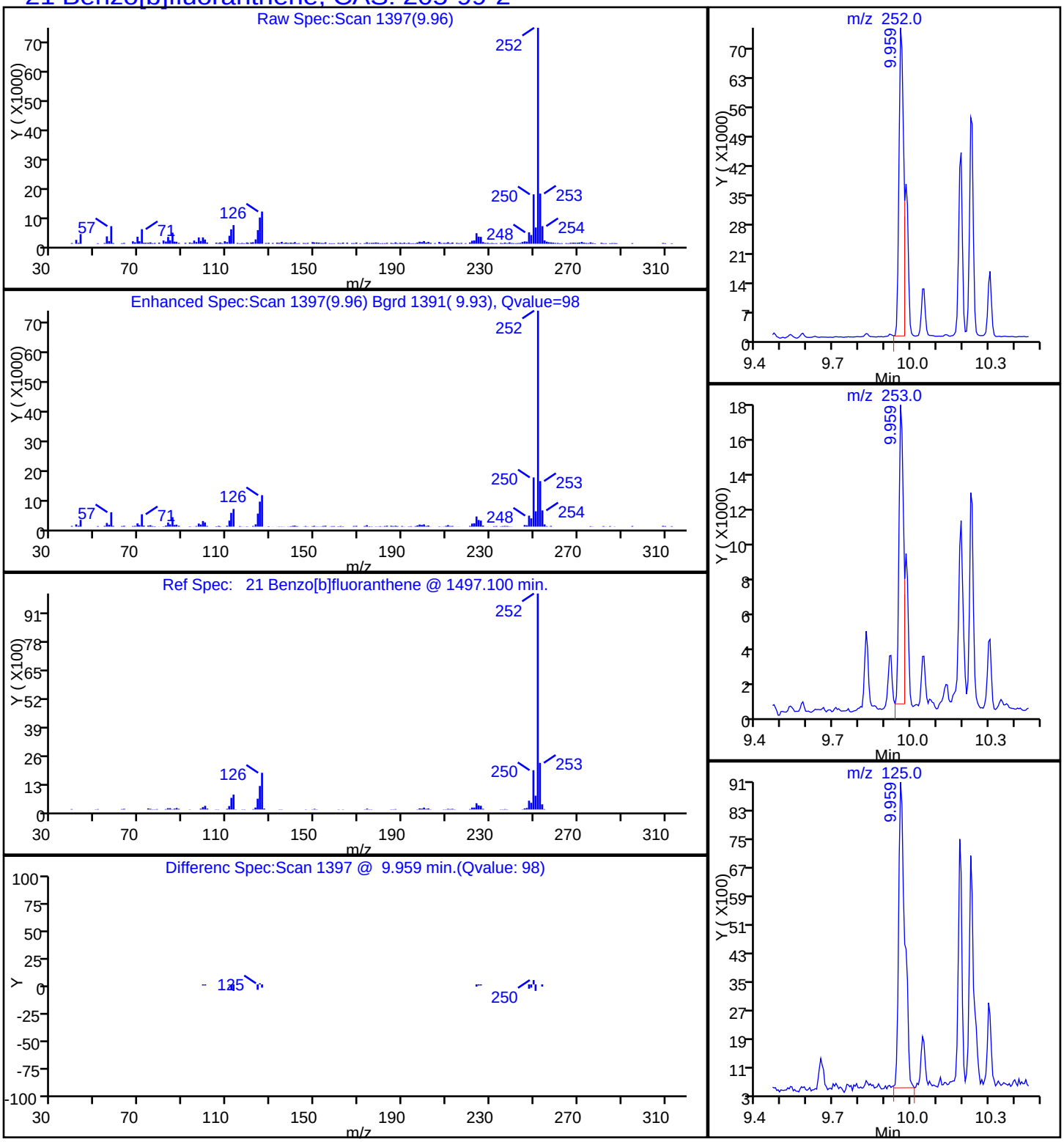


Report Date: 17-Oct-2014 08:59:15 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1617.D | | | | |
| Injection Date: | 16-Oct-2014 17:44:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-27-A | Lab Sample ID: | 680-106200-27 | | |
| Client ID: | CV0748WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 16 | Worklist Smp#: | 17 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

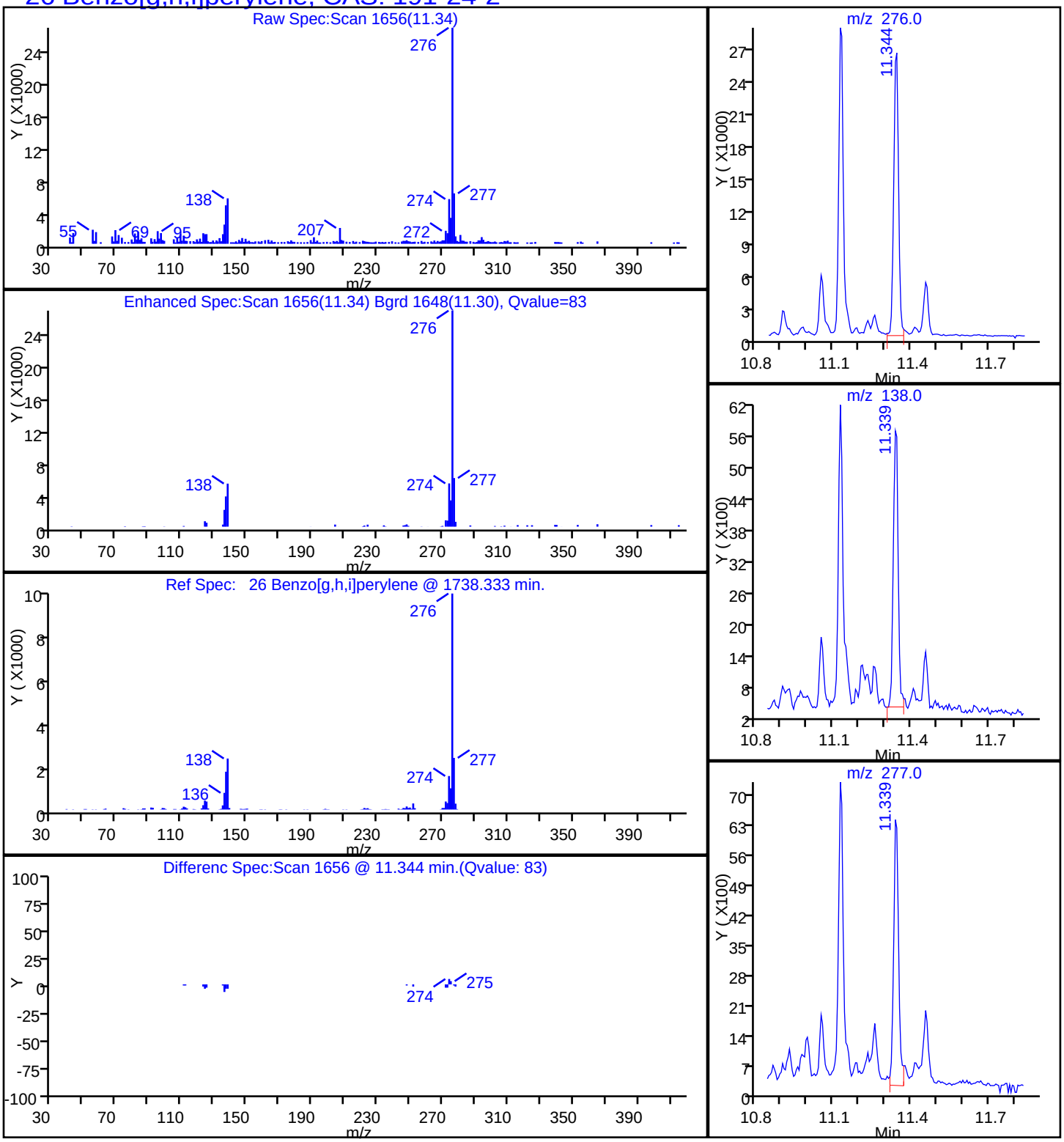


Report Date: 17-Oct-2014 08:59:15 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1617.D | | | | |
| Injection Date: | 16-Oct-2014 17:44:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-27-A | Lab Sample ID: | 680-106200-27 | | |
| Client ID: | CV0748WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 16 | Worklist Smp#: | 17 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

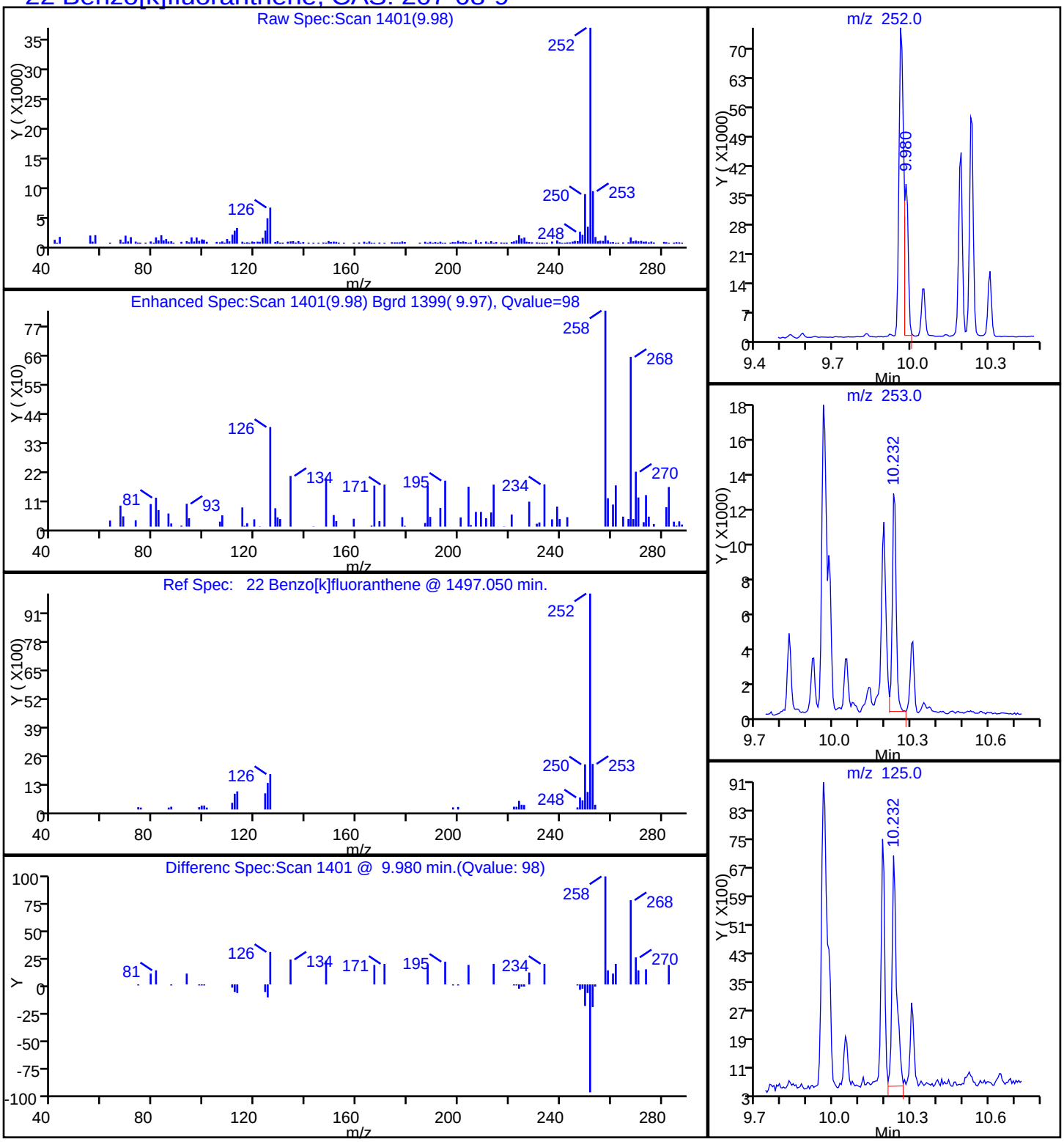


Report Date: 17-Oct-2014 08:59:15 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1617.D | | | | |
| Injection Date: | 16-Oct-2014 17:44:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-27-A | Lab Sample ID: | 680-106200-27 | | |
| Client ID: | CV0748WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 16 | Worklist Smp#: | 17 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

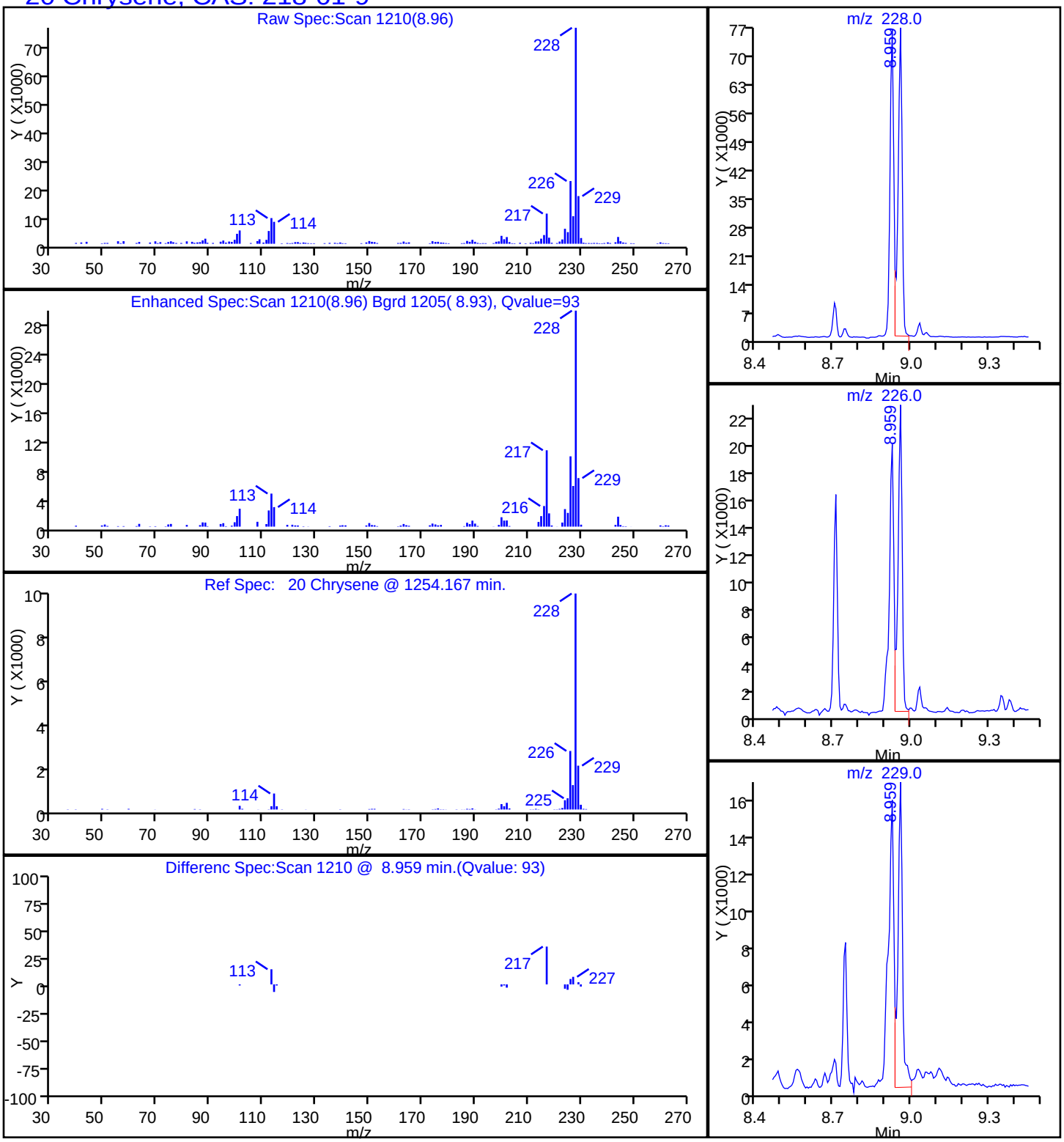


Report Date: 17-Oct-2014 08:59:15 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1617.D | | | | |
| Injection Date: | 16-Oct-2014 17:44:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-27-A | Lab Sample ID: | 680-106200-27 | | |
| Client ID: | CV0748WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 16 | Worklist Smp#: | 17 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 20 Chrysene, CAS: 218-01-9

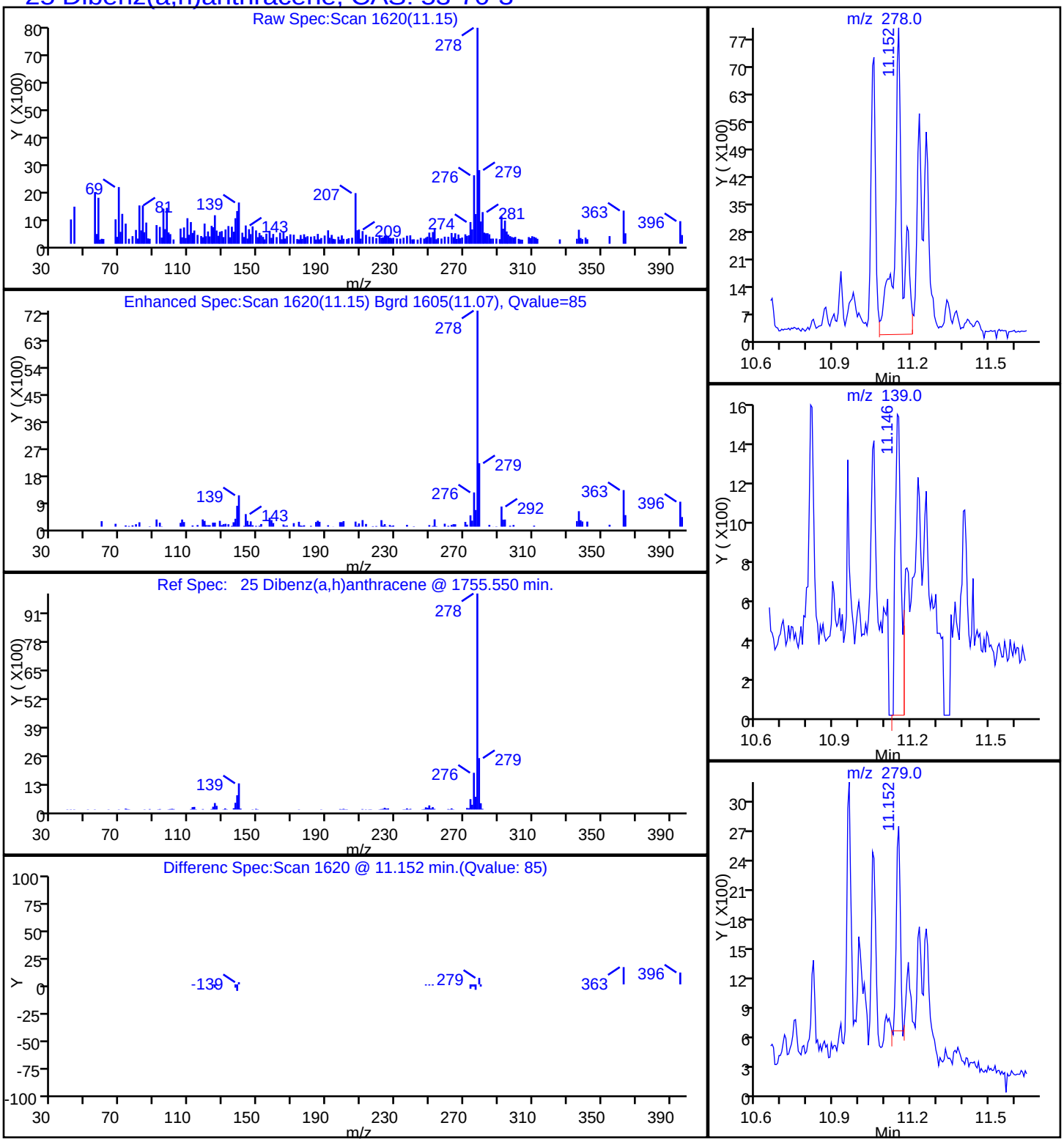


Report Date: 17-Oct-2014 08:59:15 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1617.D | | | | |
| Injection Date: | 16-Oct-2014 17:44:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-27-A | Lab Sample ID: | 680-106200-27 | | |
| Client ID: | CV0748WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 16 | Worklist Smp#: | 17 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

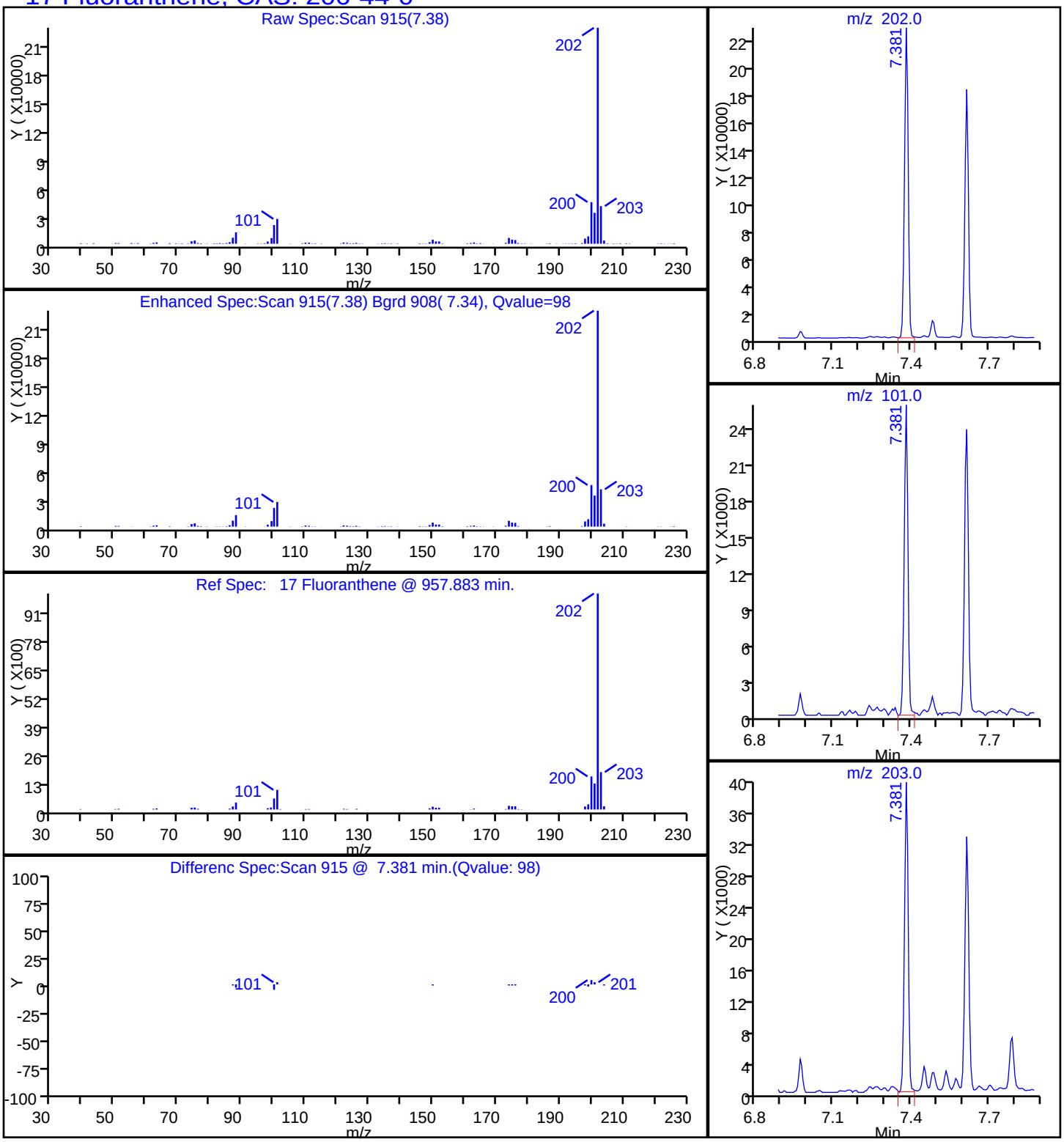


Report Date: 17-Oct-2014 08:59:15 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1617.D | | | | |
| Injection Date: | 16-Oct-2014 17:44:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-27-A | Lab Sample ID: | 680-106200-27 | | |
| Client ID: | CV0748WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 16 | Worklist Smp#: | 17 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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



Report Date: 17-Oct-2014 08:59:15 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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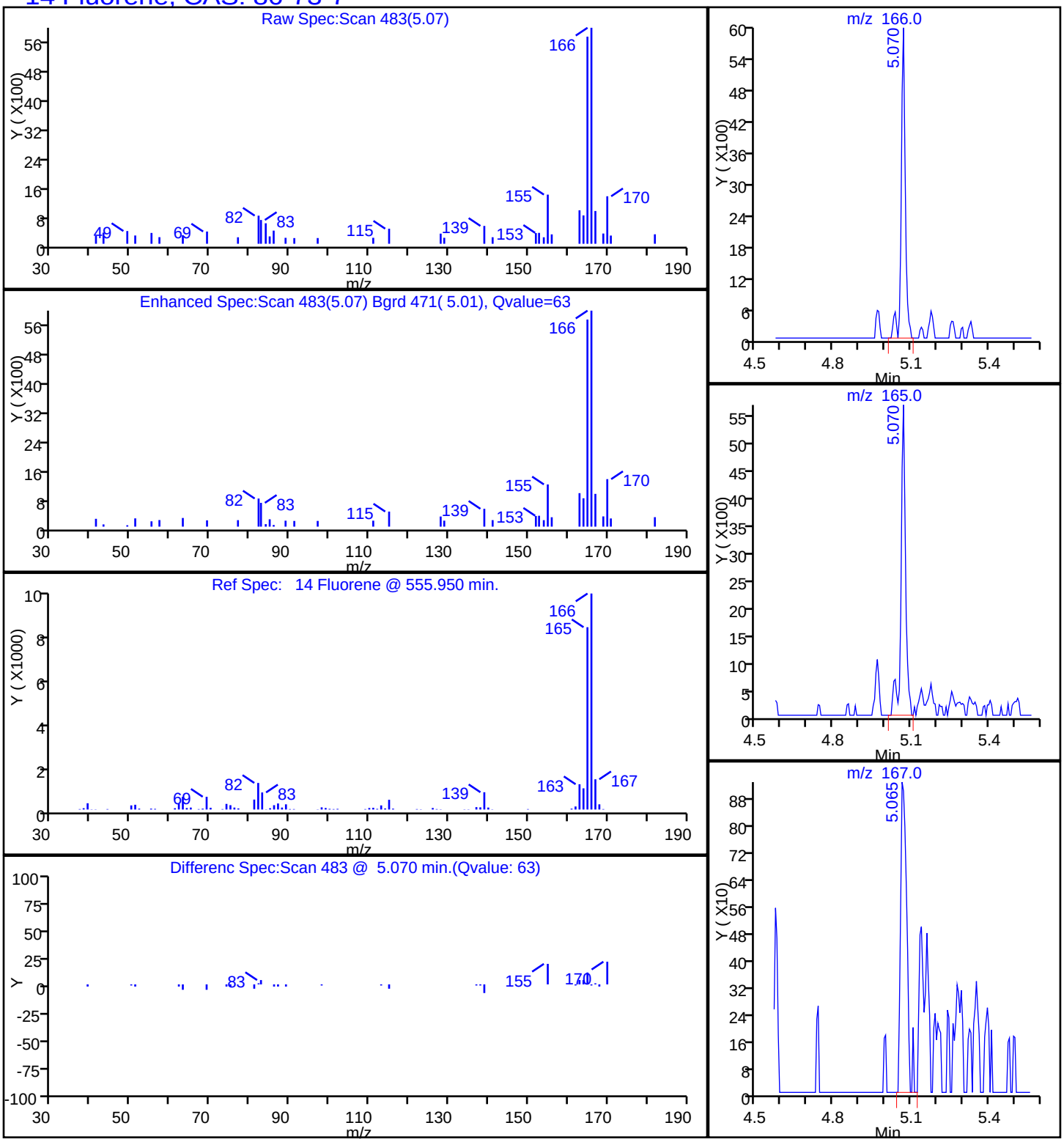
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1617.D | | | | |
| Injection Date: | 16-Oct-2014 17:44:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-27-A | Lab Sample ID: | 680-106200-27 | | |
| Client ID: | CV0748WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 16 | Worklist Smp#: | 17 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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



Report Date: 17-Oct-2014 08:59:15 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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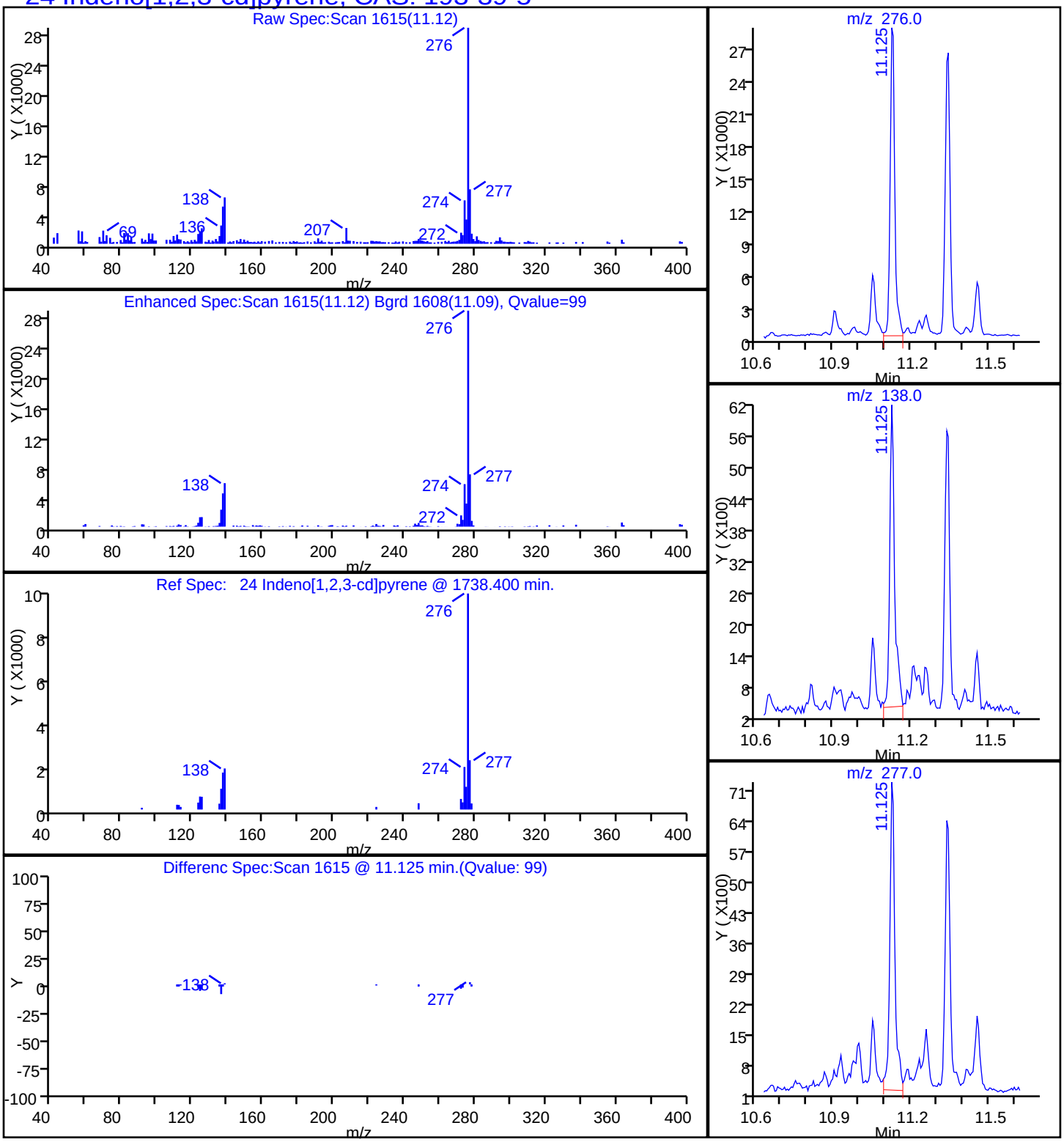
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1617.D | | | | |
| Injection Date: | 16-Oct-2014 17:44:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-27-A | Lab Sample ID: | 680-106200-27 | | |
| Client ID: | CV0748WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 16 | Worklist Smp#: | 17 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

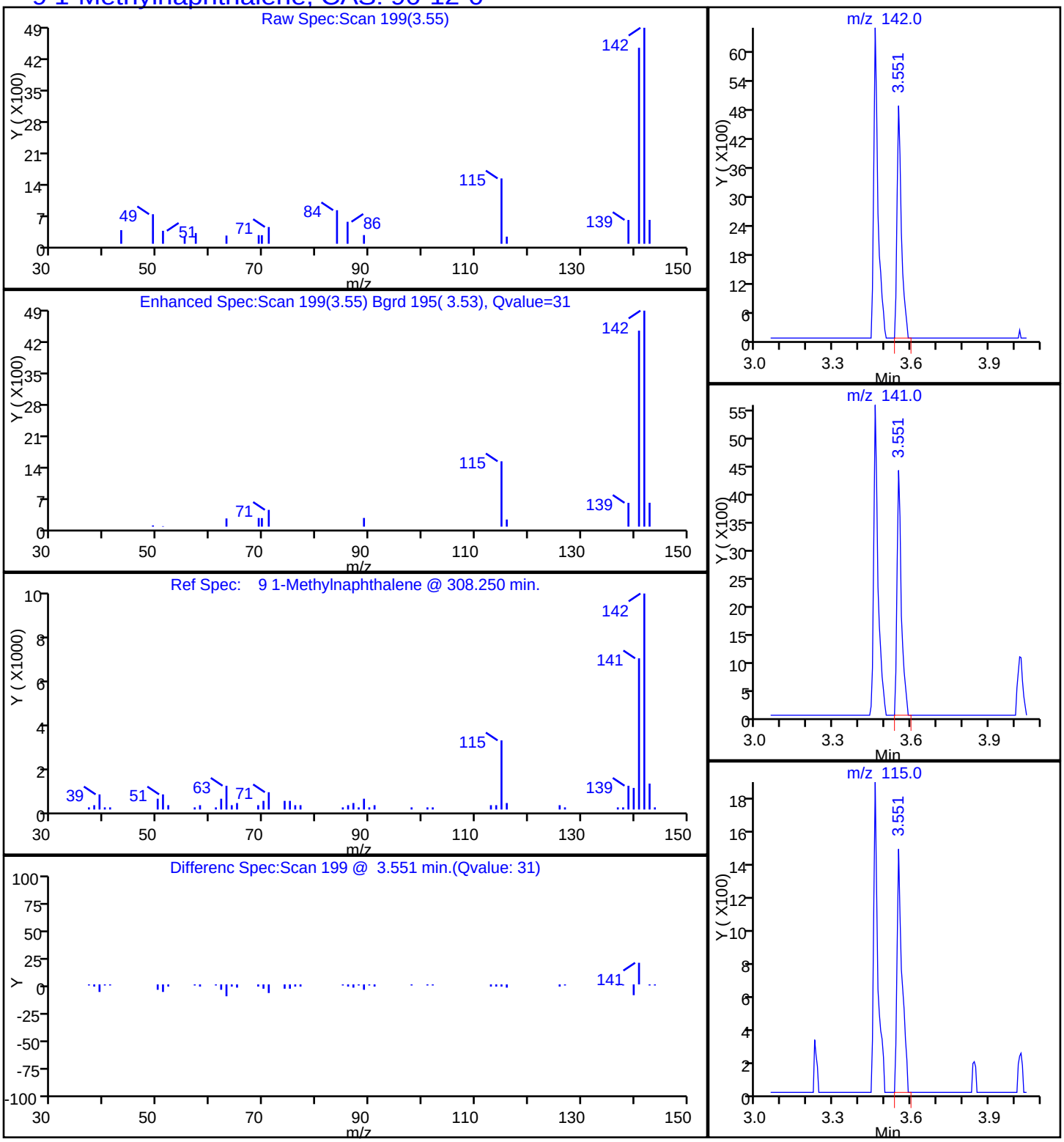


Report Date: 17-Oct-2014 08:59:14 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1617.D | | | | |
| Injection Date: | 16-Oct-2014 17:44:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-27-A | Lab Sample ID: | 680-106200-27 | | |
| Client ID: | CV0748WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 16 | Worklist Smp#: | 17 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 9 1-Methylnaphthalene, CAS: 90-12-0

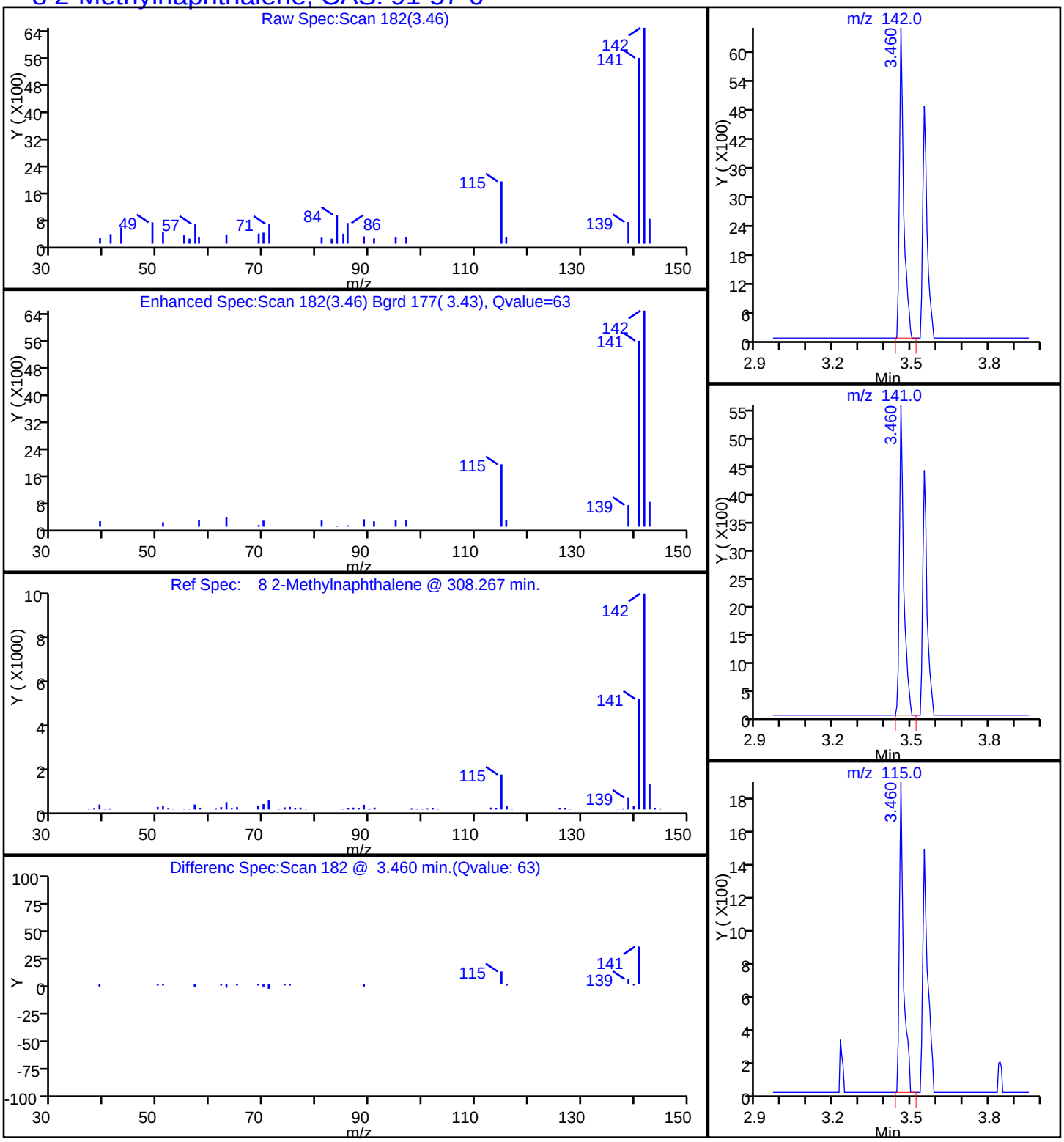


Report Date: 17-Oct-2014 08:59:14 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1617.D | | | | |
| Injection Date: | 16-Oct-2014 17:44:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-27-A | Lab Sample ID: | 680-106200-27 | | |
| Client ID: | CV0748WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 16 | Worklist Smp#: | 17 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 8 2-Methylnaphthalene, CAS: 91-57-6

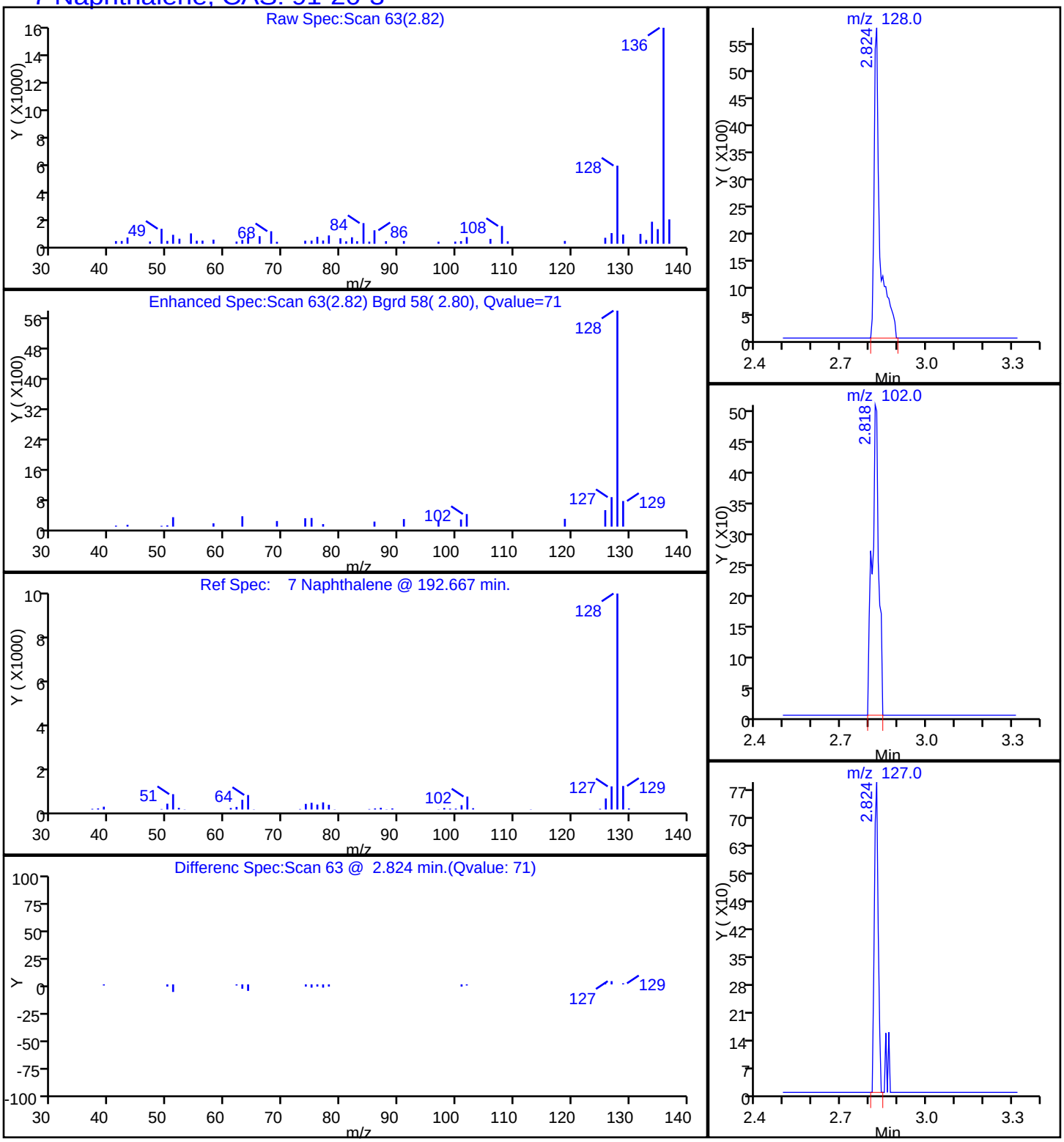


Report Date: 17-Oct-2014 08:59:14 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1617.D | | | | |
| Injection Date: | 16-Oct-2014 17:44:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-27-A | Lab Sample ID: | 680-106200-27 | | |
| Client ID: | CV0748WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 16 | Worklist Smp#: | 17 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 7 Naphthalene, CAS: 91-20-3

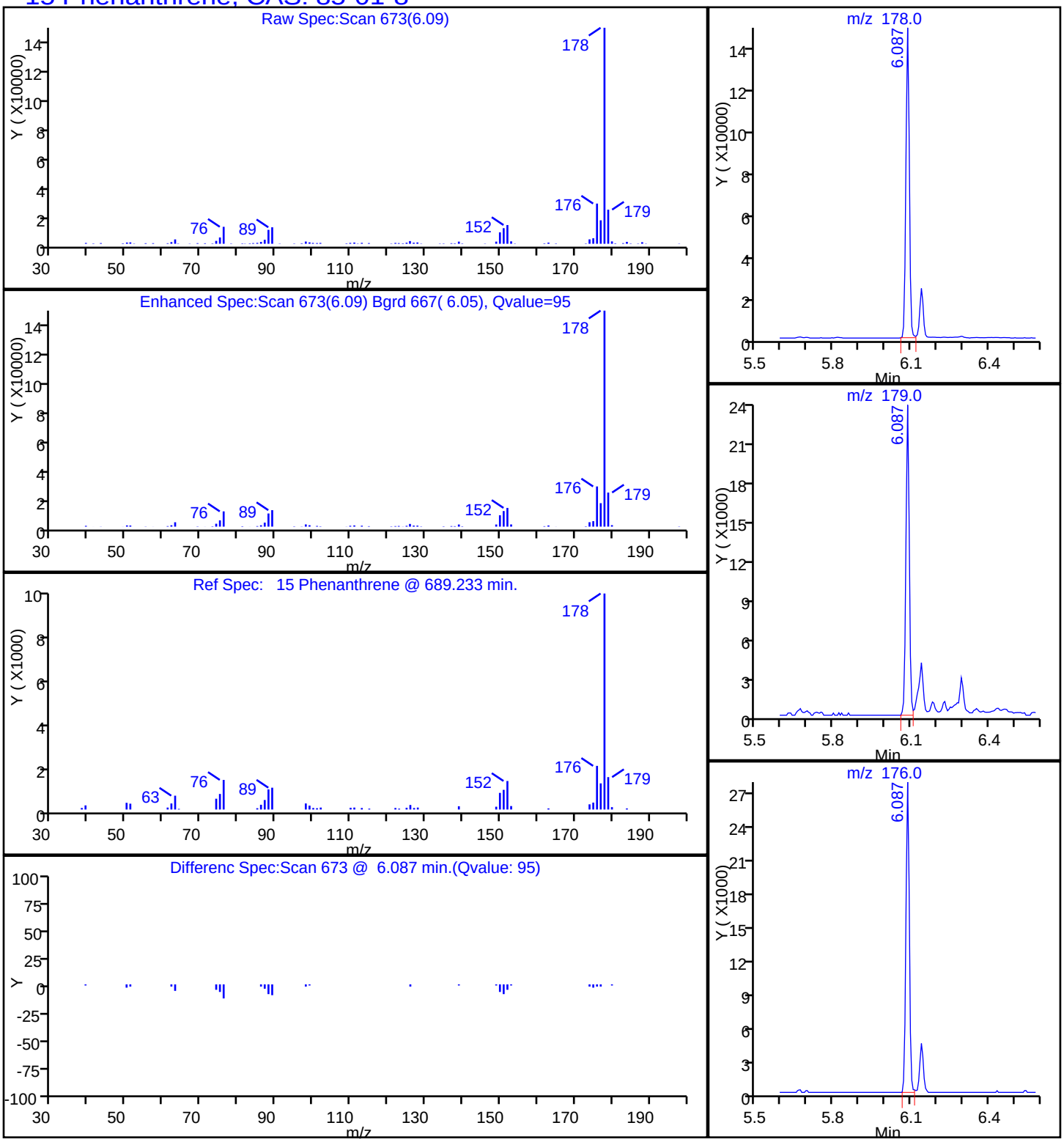


Report Date: 17-Oct-2014 08:59:15 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1617.D | | | | |
| Injection Date: | 16-Oct-2014 17:44:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-27-A | Lab Sample ID: | 680-106200-27 | | |
| Client ID: | CV0748WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 16 | Worklist Smp#: | 17 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 15 Phenanthrene, CAS: 85-01-8

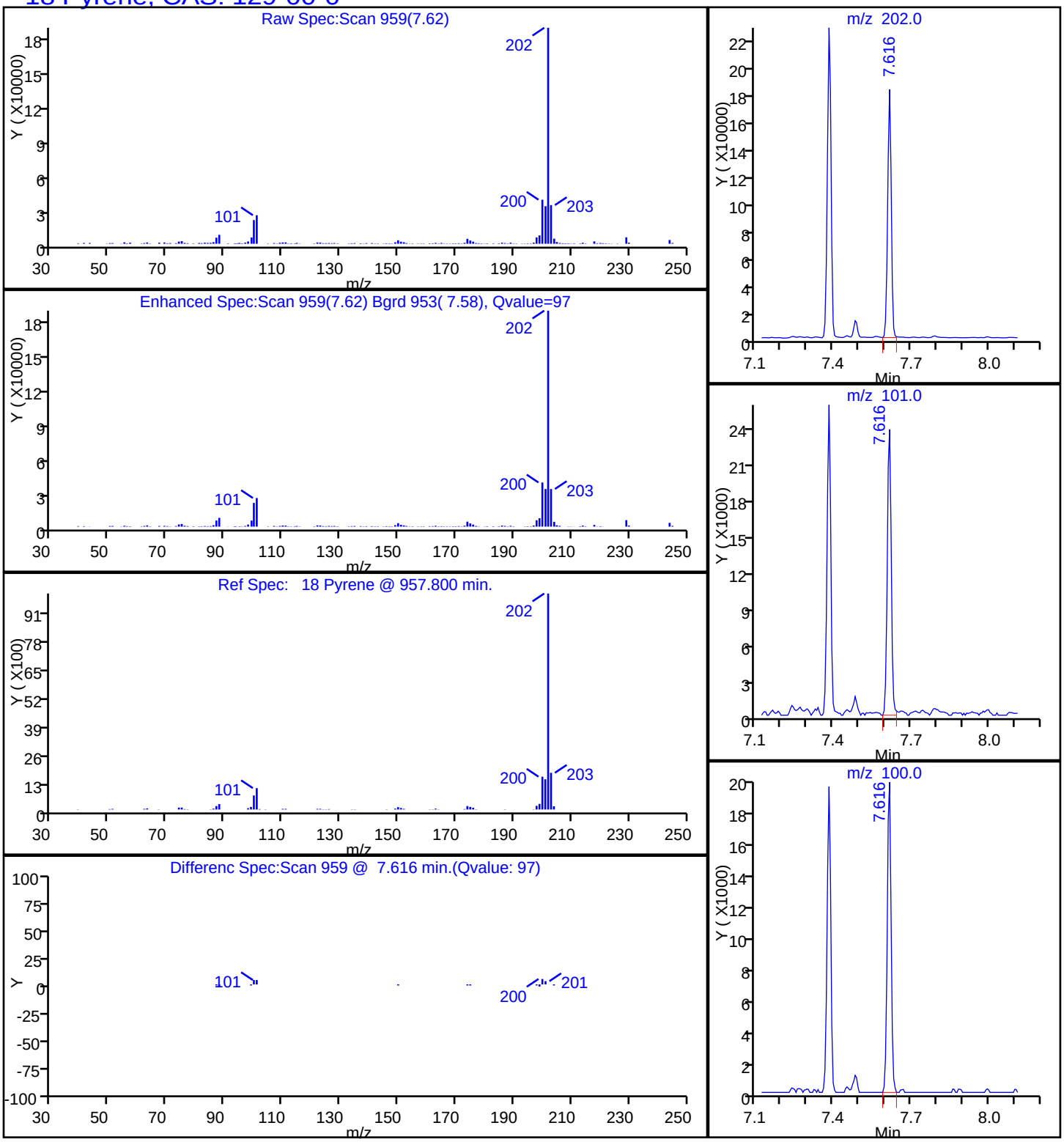


Report Date: 17-Oct-2014 08:59:15 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1617.D | | | | |
| Injection Date: | 16-Oct-2014 17:44:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-27-A | Lab Sample ID: | 680-106200-27 | | |
| Client ID: | CV0748WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 16 | Worklist Smp#: | 17 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 18 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

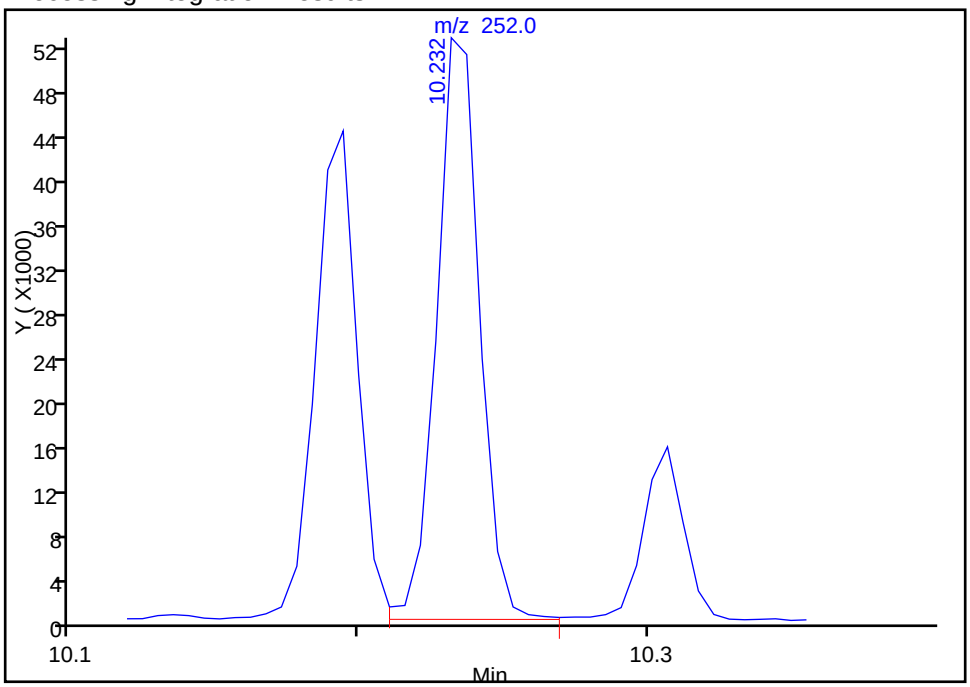
TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1617.D | | | | |
| Injection Date: | 16-Oct-2014 17:44:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-27-A | Lab Sample ID: | 680-106200-27 | | |
| Client ID: | CV0748WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 16 | Worklist Smp#: | 17 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

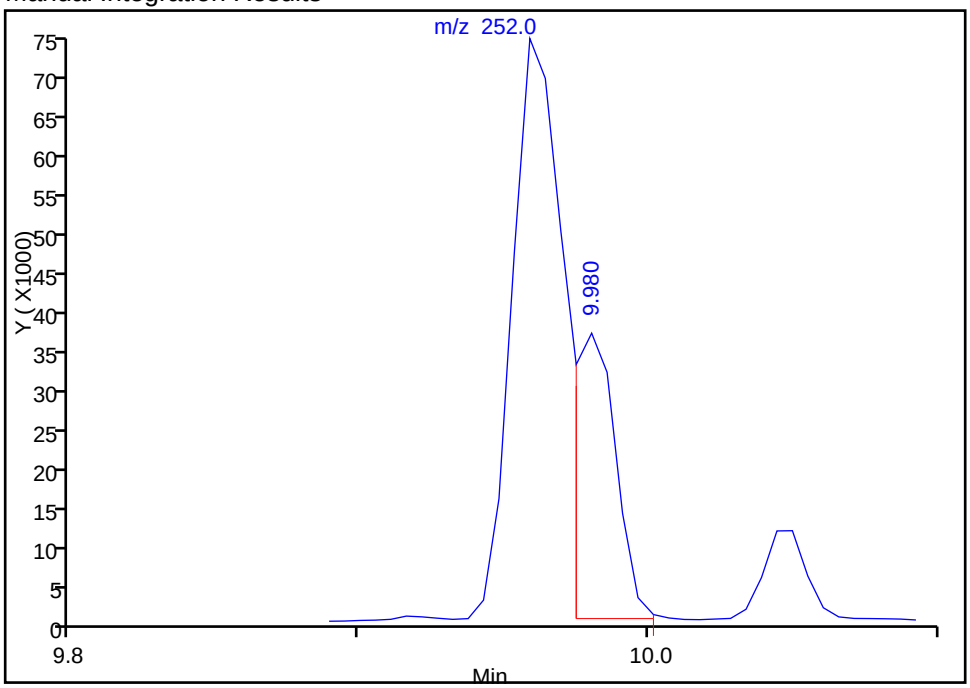
Processing Integration Results

RT: 10.23
Response: 54153
Amount: 1.006509




Manual Integration Results

RT: 9.98
Response: 37301
Amount: 0.692365




Reviewer: webbk, 17-Oct-2014 08:49:55
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0748WW-CS12 | Lab Sample ID: 680-106200-28

Matrix: Solid | Lab File ID: 1YJ1618.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 12:50

Extract. Method: 3546 | Date Extracted: 10/15/2014 10:01

Sample wt/vol: 30.04(g) | Date Analyzed: 10/16/2014 18:06

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 14.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353862 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 7.8 | U | 7.8 | 3.8 |
| 208-96-8 | Acenaphthylene | 7.8 | U | 7.8 | 3.8 |
| 120-12-7 | Anthracene | 7.8 | U | 7.8 | 3.8 |
| 56-55-3 | Benzo[a]anthracene | 6.9 | J | 7.8 | 3.8 |
| 50-32-8 | Benzo[a]pyrene | 7.8 | U | 7.8 | 1.4 |
| 205-99-2 | Benzo[b]fluoranthene | 13 | | 7.8 | 3.8 |
| 191-24-2 | Benzo[g,h,i]perylene | 8.2 | | 7.8 | 3.8 |
| 207-08-9 | Benzo[k]fluoranthene | 4.8 | J | 7.8 | 2.3 |
| 218-01-9 | Chrysene | 12 | | 7.8 | 3.8 |
| 53-70-3 | Dibenz(a,h)anthracene | 7.8 | U | 7.8 | 3.8 |
| 206-44-0 | Fluoranthene | 7.8 | | 7.8 | 3.8 |
| 86-73-7 | Fluorene | 7.8 | U | 7.8 | 3.8 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 5.6 | J | 7.8 | 3.8 |
| 90-12-0 | 1-Methylnaphthalene | 4.1 | J | 7.8 | 3.6 |
| 91-57-6 | 2-Methylnaphthalene | 5.0 | J | 7.8 | 3.8 |
| 91-20-3 | Naphthalene | 4.7 | J | 7.8 | 3.8 |
| 85-01-8 | Phenanthrene | 7.6 | J | 7.8 | 2.8 |
| 129-00-0 | Pyrene | 8.9 | | 7.8 | 3.8 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 107 | | 36-131 |

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1618.D
Lims ID: 680-106200-A-28-A Lab Sample ID: 680-106200-28
Client ID: CV0748WW-CS12
Sample Type: Client
Inject. Date: 16-Oct-2014 18:06:30 ALS Bottle#: 17 Worklist Smp#: 18
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 106200-A-28-A
Misc. Info.: 680-0013814-018
Operator ID: RM Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141016-13814.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 17-Oct-2014 08:59:05 Calib Date: 07-Oct-2014 15:41:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 17-Oct-2014 08:50:54

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.802 | 2.803 | -0.001 | 98 | 152706 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.492 | 4.487 | 0.005 | 84 | 88954 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.065 | 6.054 | 0.011 | 97 | 138568 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 8.937 | 8.927 | 0.010 | 99 | 109276 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.285 | 10.269 | 0.016 | 98 | 93138 | 2.00 | |
| $ 6 o-Terphenyl | 230 | 6.546 | 6.541 | 0.005 | 90 | 75253 | 2.15 | |
| 7 Naphthalene | 128 | 2.818 | 2.819 | -0.001 | 72 | 10172 | 0.1221 | |
| 8 2-Methylnaphthalene | 142 | 3.460 | 3.455 | 0.005 | 69 | 7146 | 0.1294 | |
| 9 1-Methylnaphthalene | 142 | 3.551 | 3.546 | 0.005 | 69 | 5418 | 0.1058 | |
| 15 Phenanthrene | 178 | 6.086 | 6.081 | 0.005 | 94 | 16138 | 0.1946 | |
| 16 Anthracene | 178 | 6.140 | 6.135 | 0.005 | 67 | 1617 | 0.0196 | 7 |
| 17 Fluoranthene | 202 | 7.381 | 7.376 | 0.005 | 98 | 17576 | 0.2000 | |
| 18 Pyrene | 202 | 7.616 | 7.606 | 0.010 | 96 | 16406 | 0.2293 | |
| 19 Benzo[a]anthracene | 228 | 8.926 | 8.916 | 0.010 | 53 | 11355 | 0.1777 | |
| 20 Chrysene | 228 | 8.958 | 8.953 | 0.005 | 90 | 18904 | 0.3100 | |
| 21 Benzo[b]fluoranthene | 252 | 9.959 | 9.948 | 0.011 | 71 | 20486 | 0.3344 | |
| 22 Benzo[k]fluoranthene | 252 | 9.980 | 9.975 | 0.005 | 95 | 7380 | 0.1240 | M |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.130 | 11.109 | 0.021 | 73 | 8635 | 0.1439 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.151 | 11.136 | 0.015 | 25 | 3528 | 0.0801 | |
| 26 Benzo[g,h,i]perylene | 276 | 11.349 | 11.323 | 0.026 | 78 | 9742 | 0.2122 | |

## QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

## Reagents:

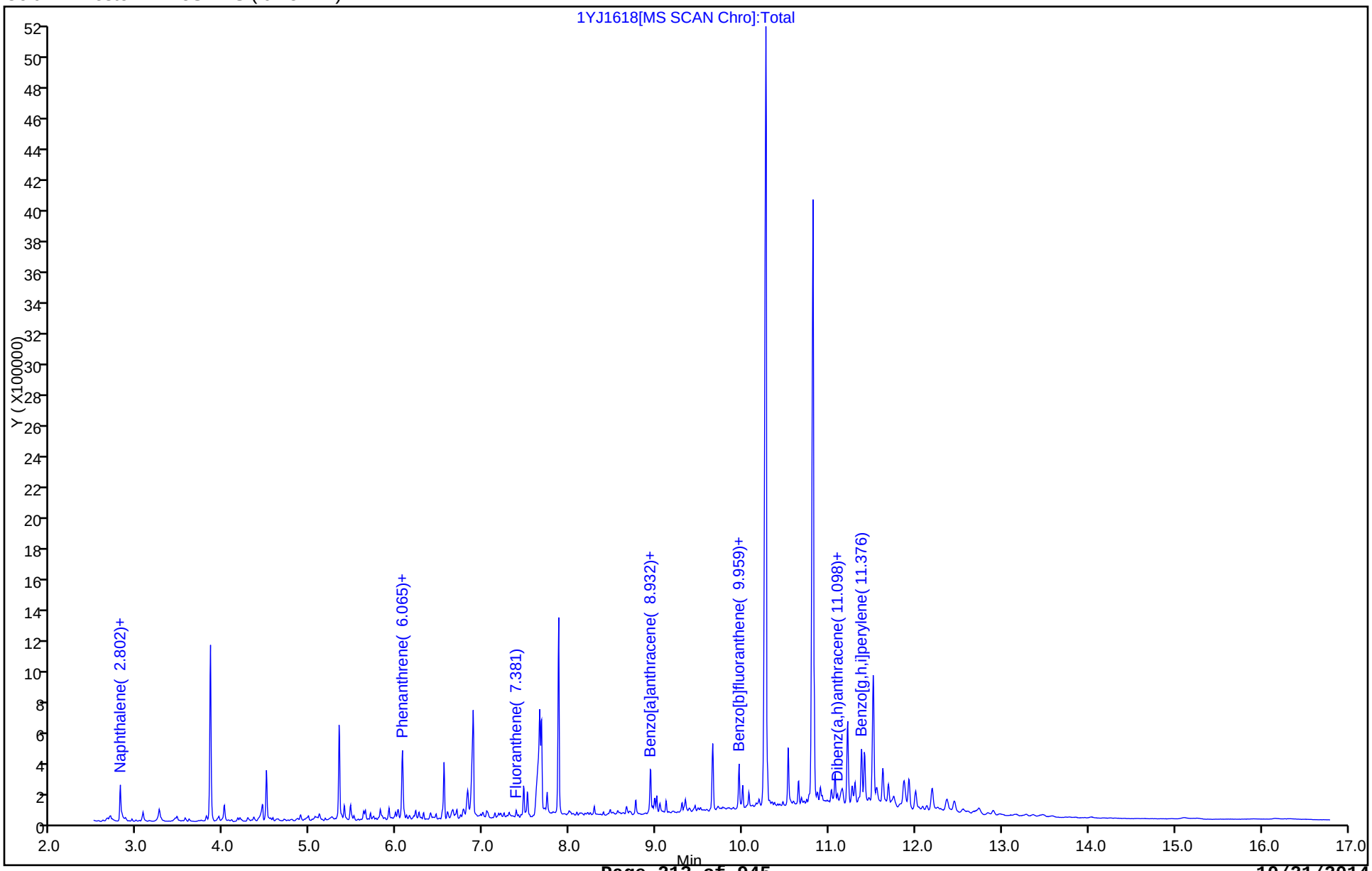
SM-LLISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 17-Oct-2014 08:59:12 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1618.D | | | | |
| Injection Date: | 16-Oct-2014 18:06:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | 680-106200-A-28-A | Lab Sample ID: | 680-106200-28 | Worklist Smp#: | 18 |
| Client ID: | CV0748WW-CS12 | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | ALS Bottle#: | 17 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)



Report Date: 17-Oct-2014 08:59:13 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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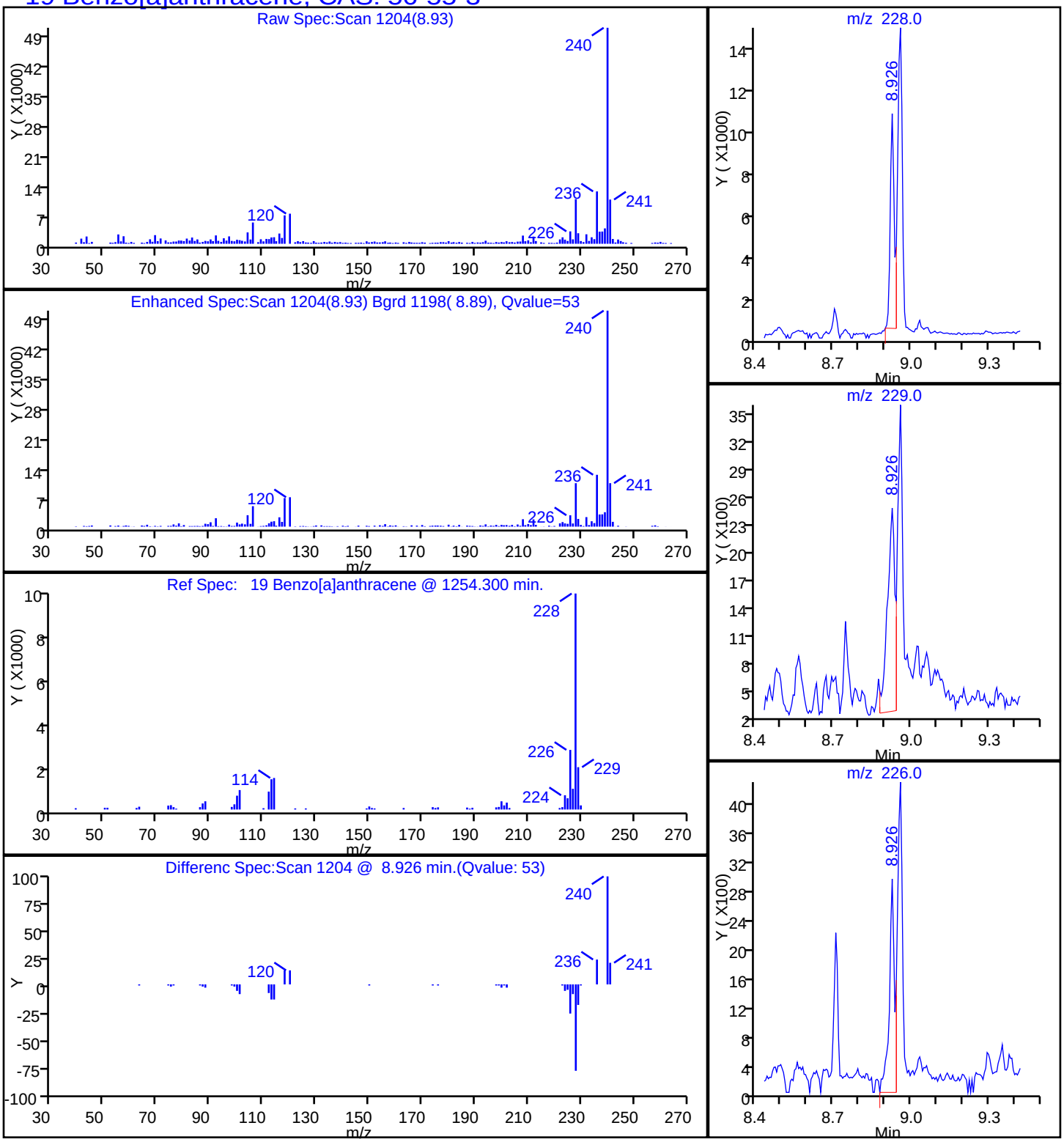
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1618.D | | | | |
| Injection Date: | 16-Oct-2014 18:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-28-A | Lab Sample ID: | 680-106200-28 | | |
| Client ID: | CV0748WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 17 | Worklist Smp#: | 18 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

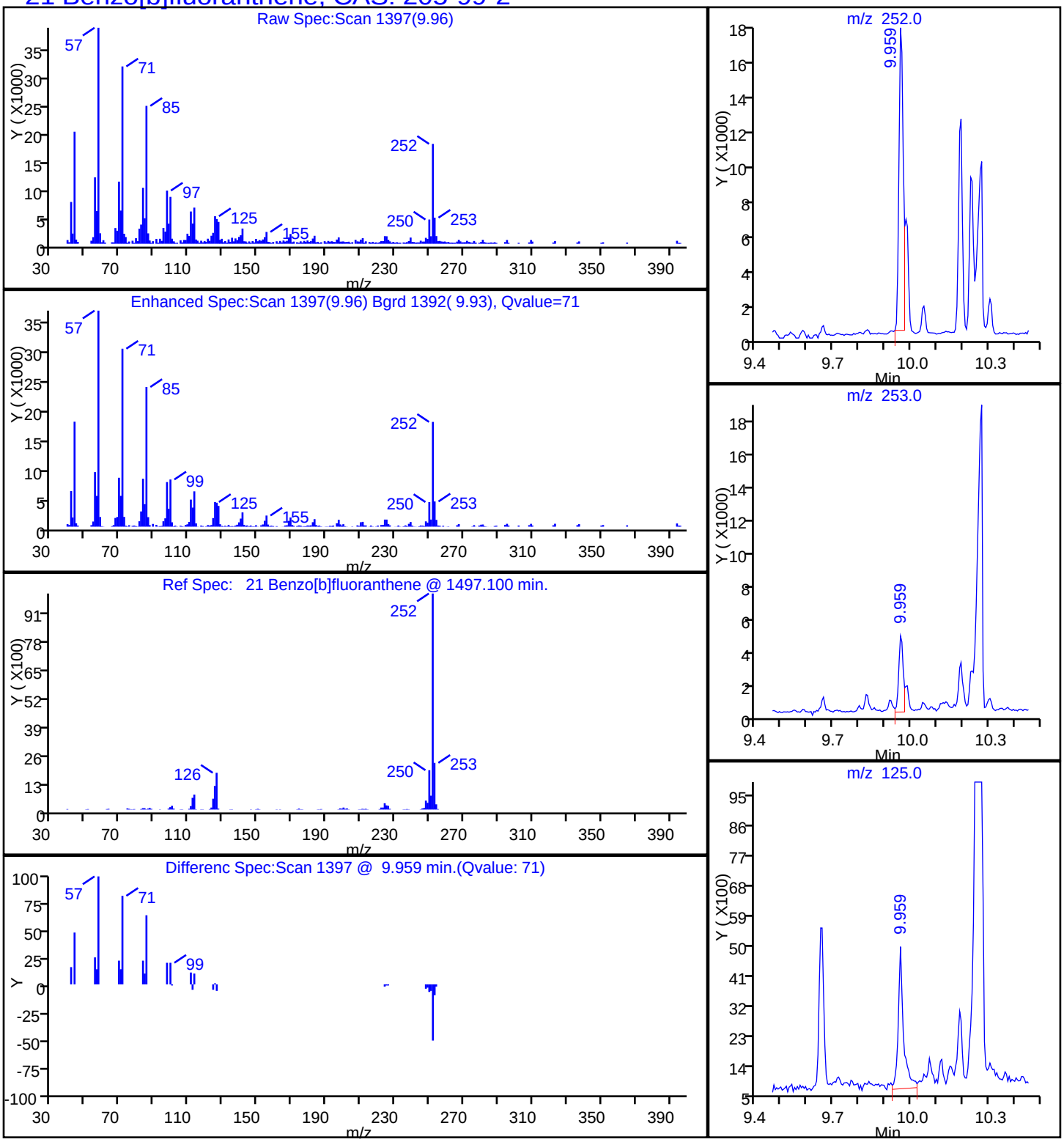


Report Date: 17-Oct-2014 08:59:13 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1618.D | | | | |
| Injection Date: | 16-Oct-2014 18:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-28-A | Lab Sample ID: | 680-106200-28 | | |
| Client ID: | CV0748WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 17 | Worklist Smp#: | 18 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

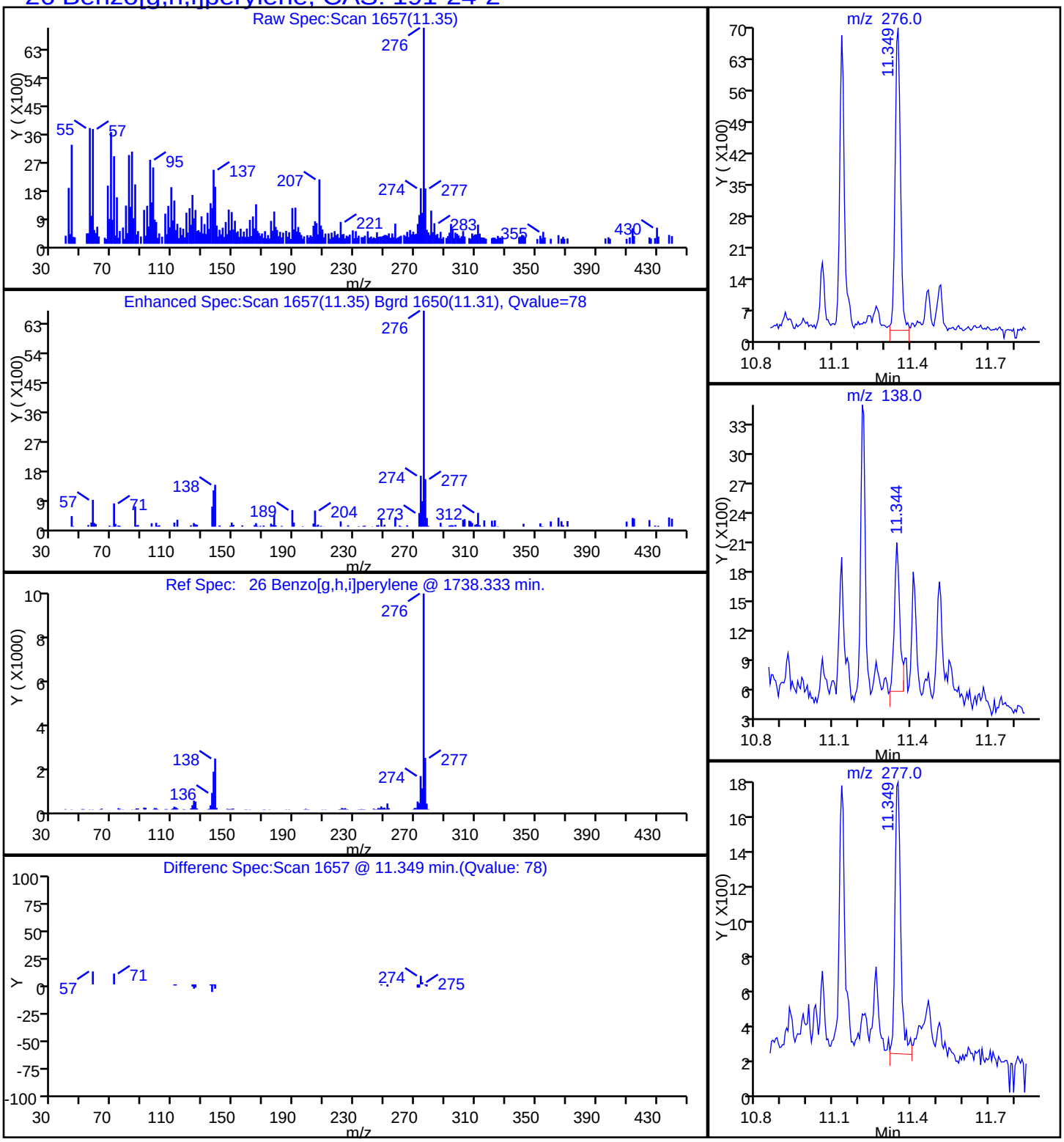


Report Date: 17-Oct-2014 08:59:13 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1618.D | | | | |
| Injection Date: | 16-Oct-2014 18:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-28-A | Lab Sample ID: | 680-106200-28 | | |
| Client ID: | CV0748WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 17 | Worklist Smp#: | 18 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

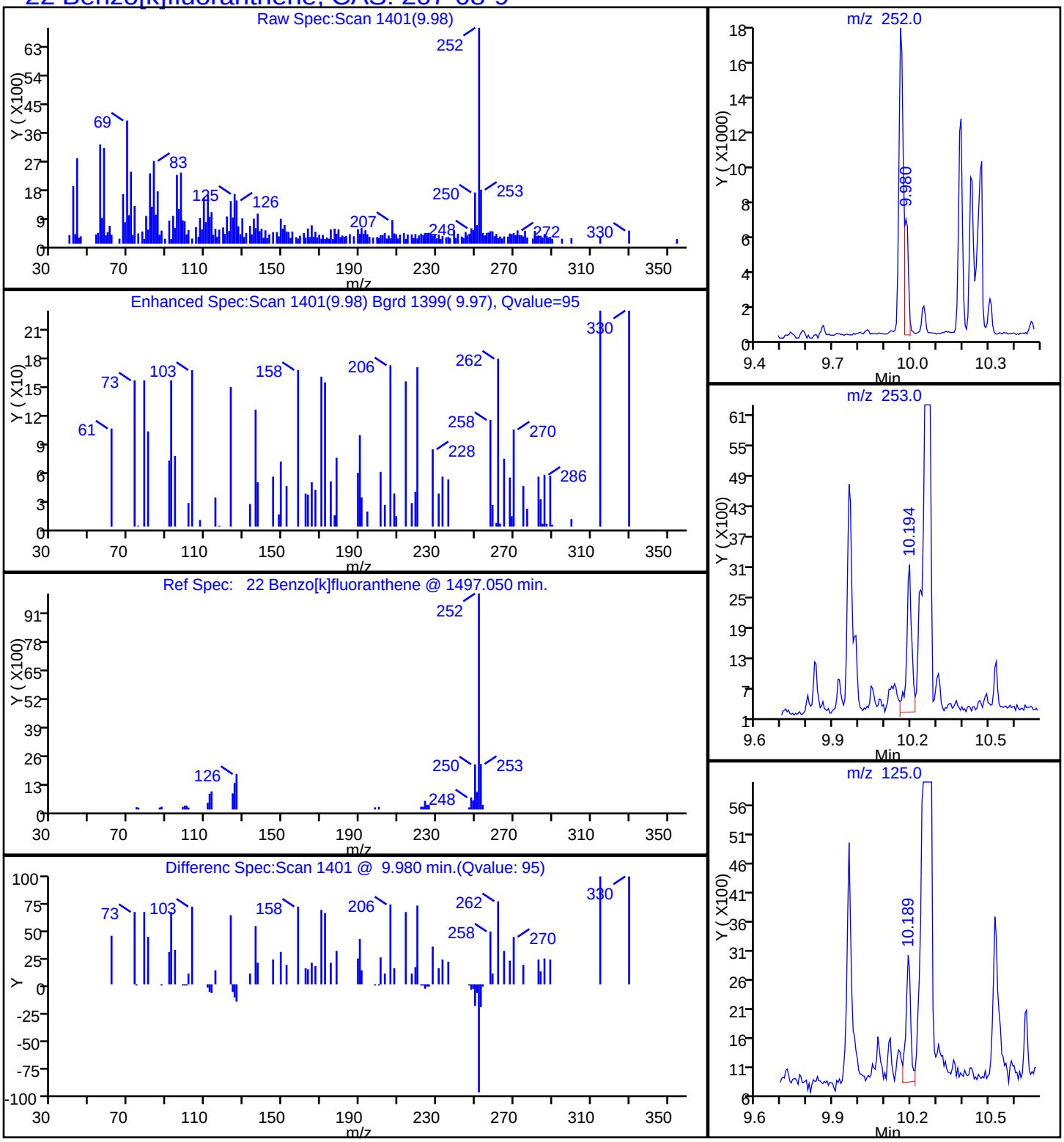


Report Date: 17-Oct-2014 08:59:13 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1618.D | | | | |
| Injection Date: | 16-Oct-2014 18:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-28-A | Lab Sample ID: | 680-106200-28 | | |
| Client ID: | CV0748WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 17 | Worklist Smp#: | 18 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

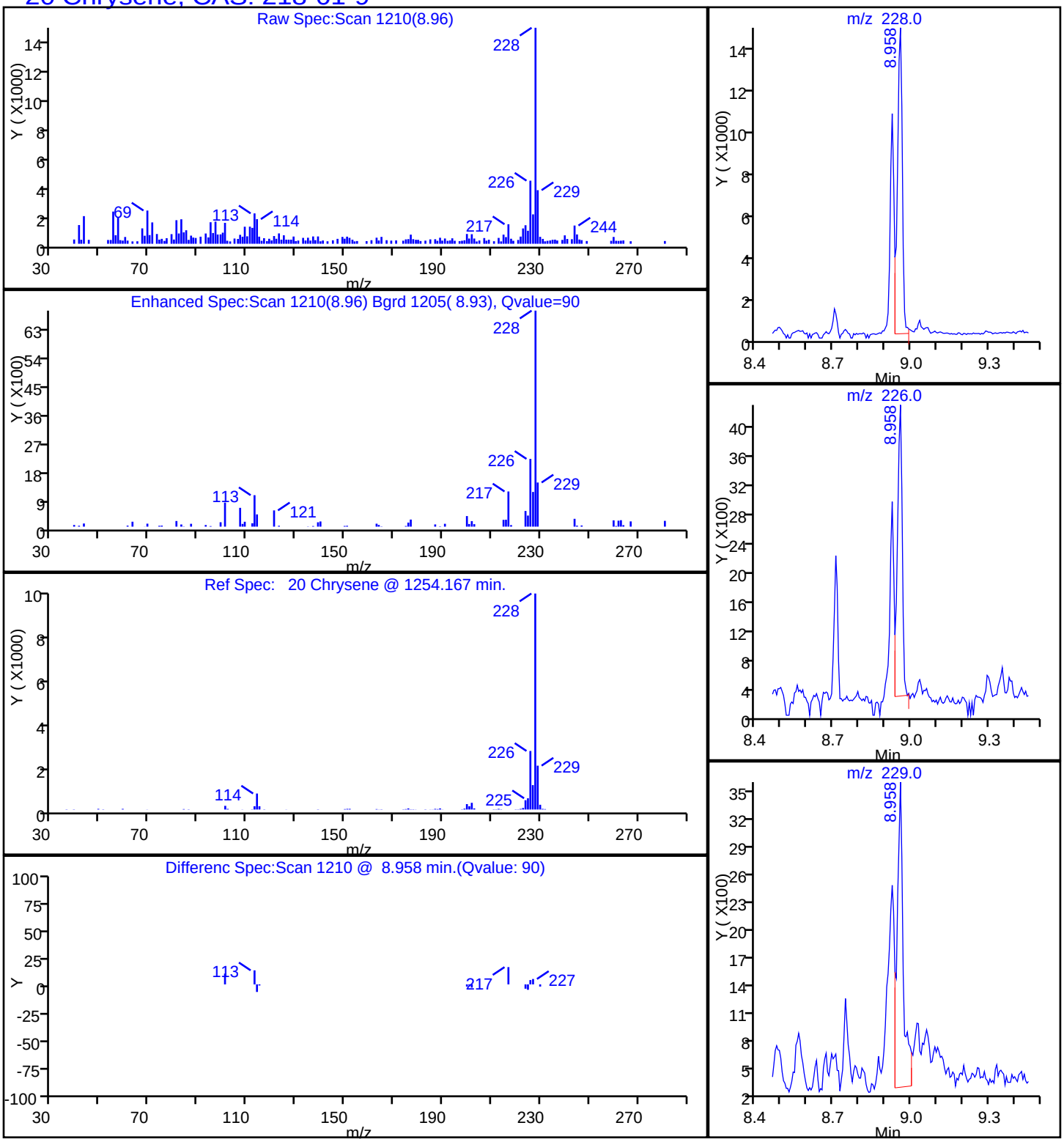


Report Date: 17-Oct-2014 08:59:13 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1618.D | | | | |
| Injection Date: | 16-Oct-2014 18:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-28-A | Lab Sample ID: | 680-106200-28 | | |
| Client ID: | CV0748WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 17 | Worklist Smp#: | 18 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 20 Chrysene, CAS: 218-01-9

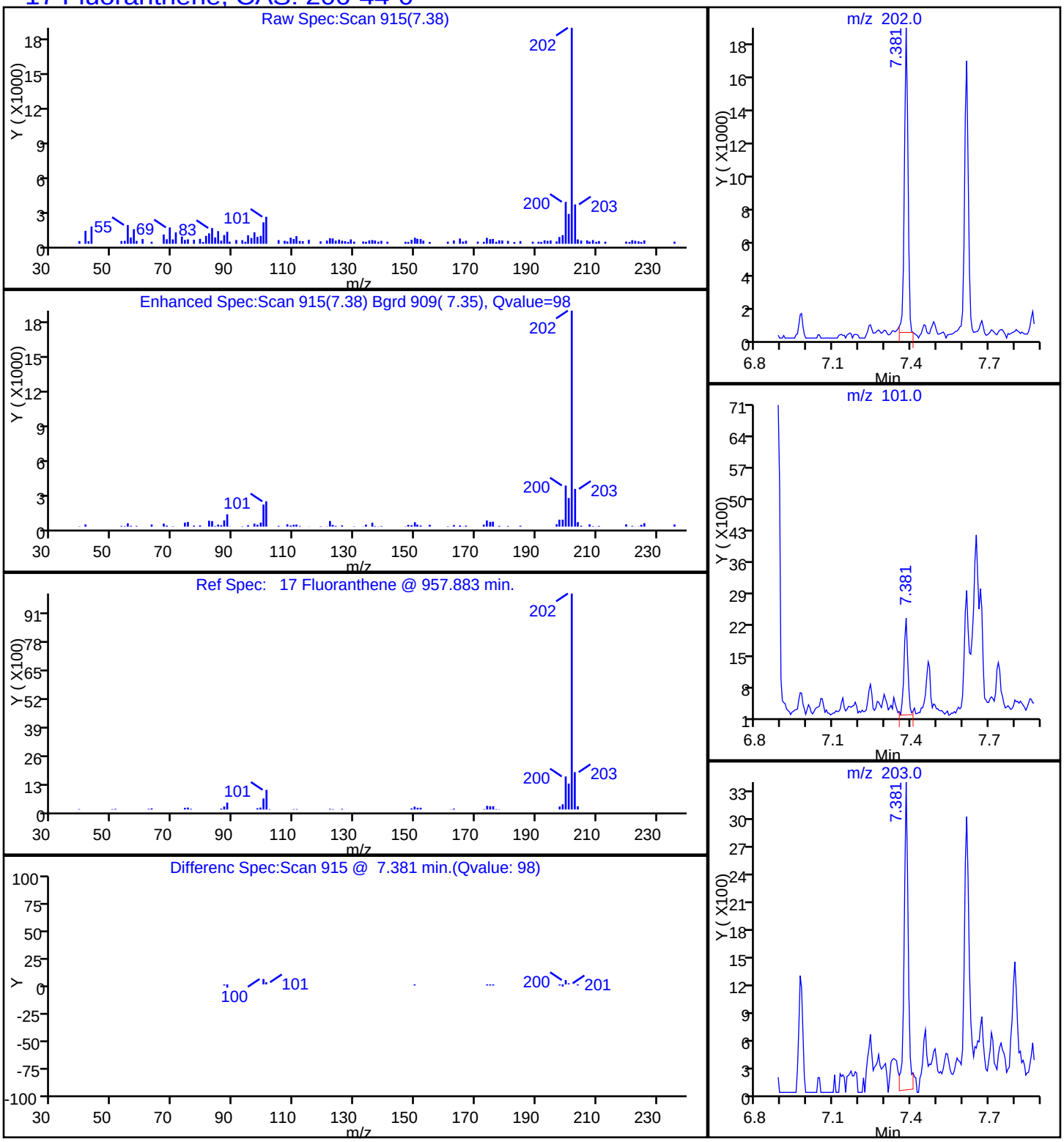


Report Date: 17-Oct-2014 08:59:13 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1618.D | | | | |
| Injection Date: | 16-Oct-2014 18:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-28-A | Lab Sample ID: | 680-106200-28 | | |
| Client ID: | CV0748WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 17 | Worklist Smp#: | 18 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

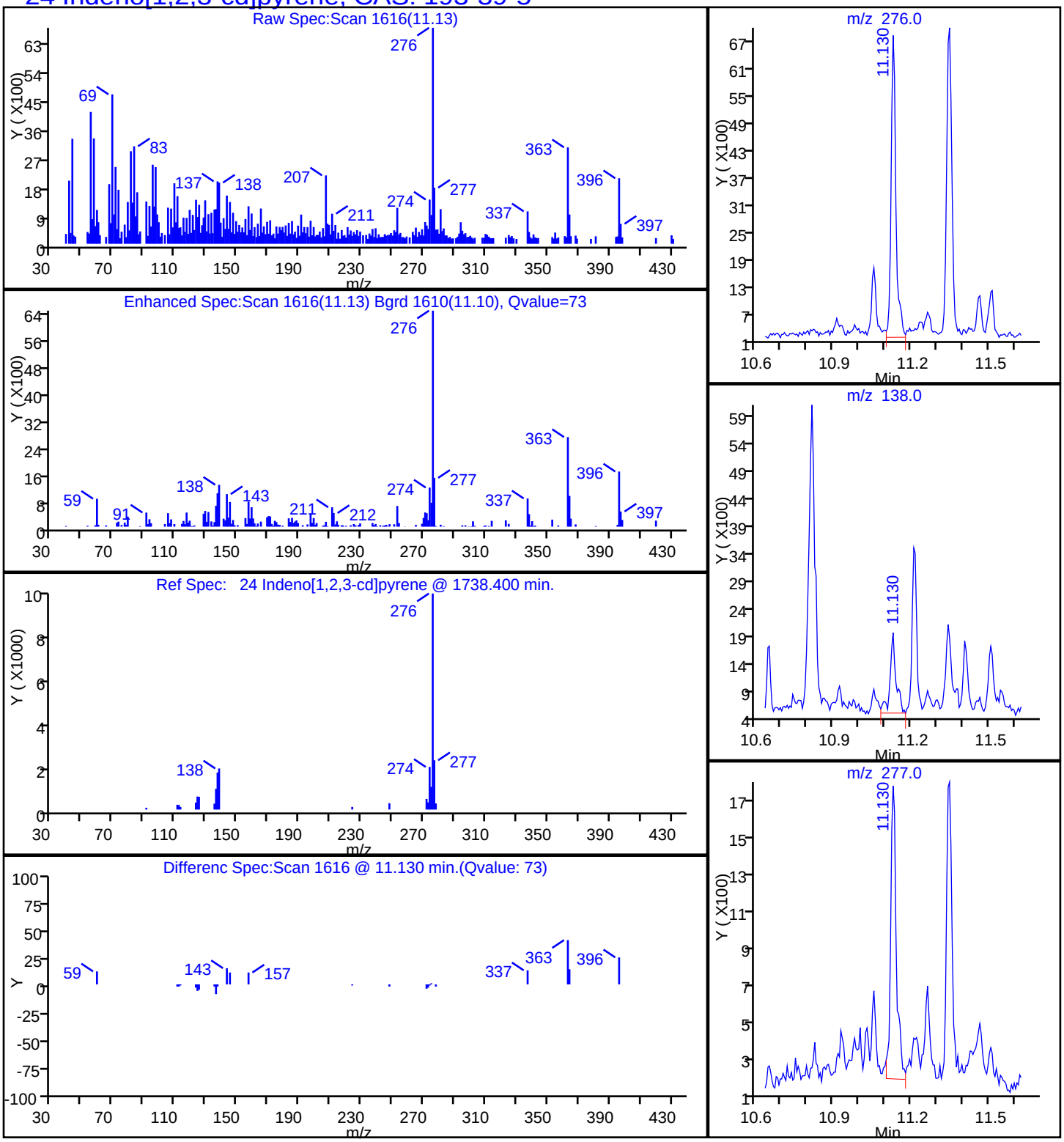


Report Date: 17-Oct-2014 08:59:13 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1618.D | | | | |
| Injection Date: | 16-Oct-2014 18:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-28-A | Lab Sample ID: | 680-106200-28 | | |
| Client ID: | CV0748WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 17 | Worklist Smp#: | 18 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

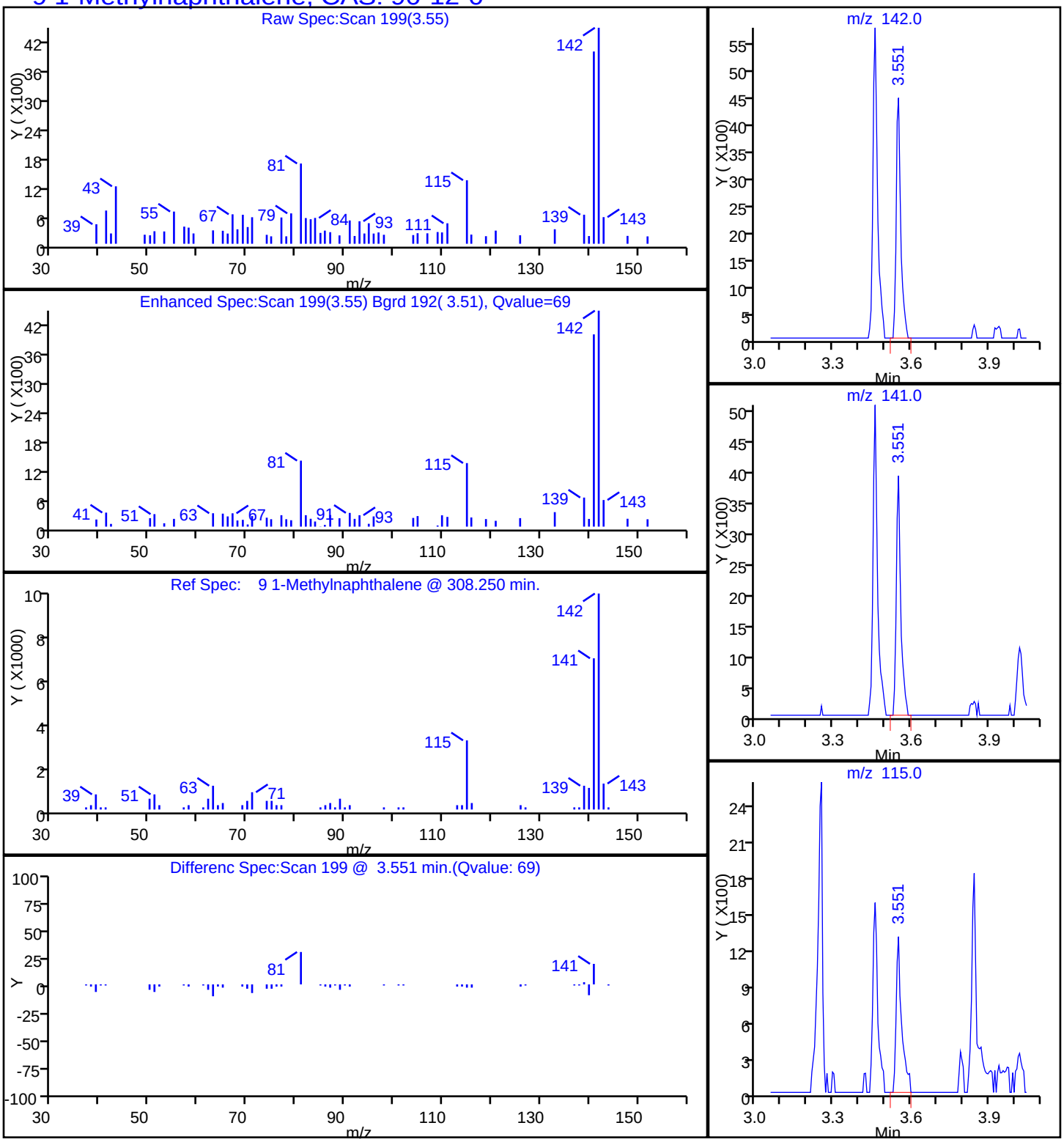


Report Date: 17-Oct-2014 08:59:12 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1618.D | | | | |
| Injection Date: | 16-Oct-2014 18:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-28-A | Lab Sample ID: | 680-106200-28 | | |
| Client ID: | CV0748WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 17 | Worklist Smp#: | 18 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 9 1-Methylnaphthalene, CAS: 90-12-0

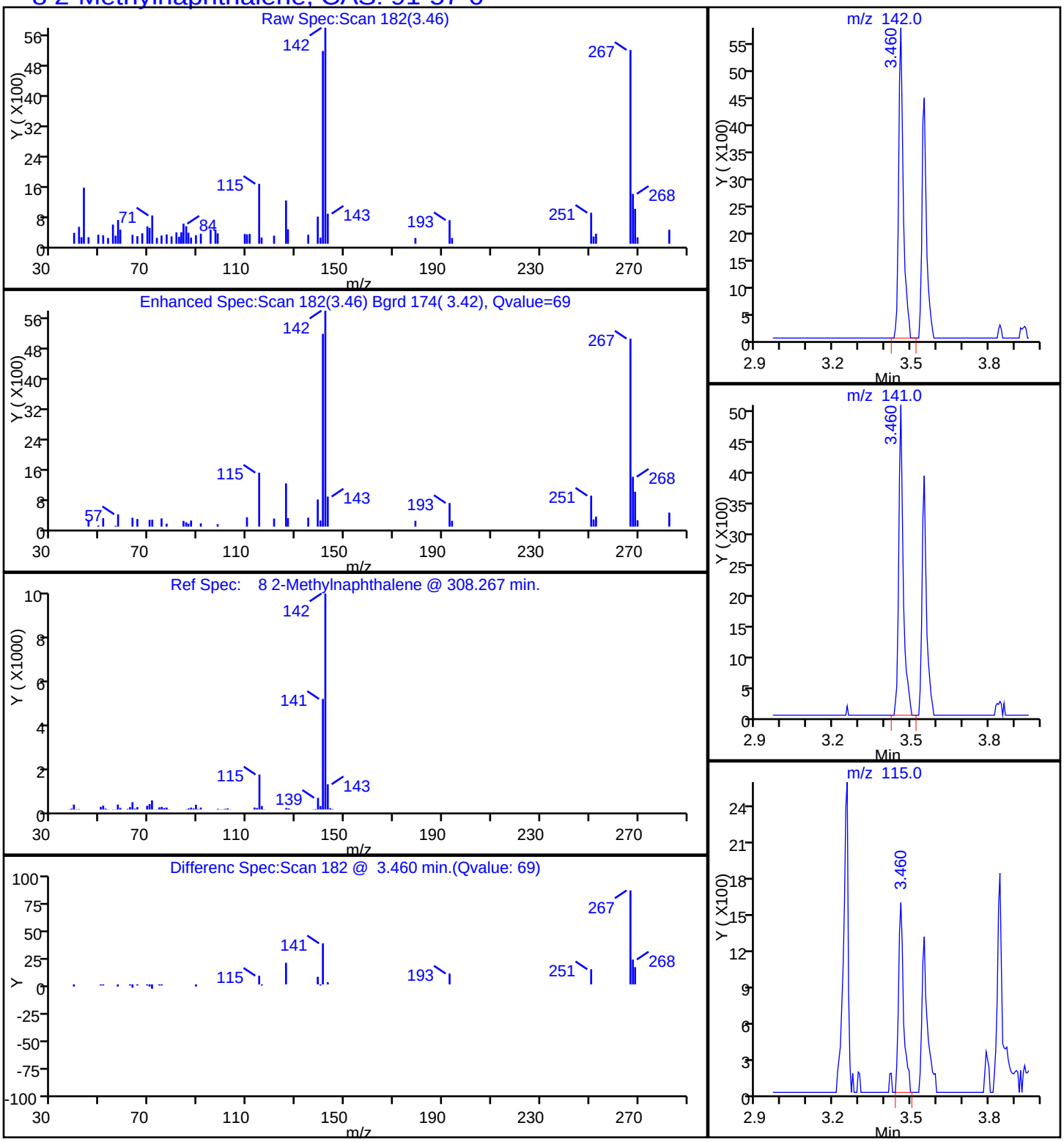


Report Date: 17-Oct-2014 08:59:12 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1618.D | | | | |
| Injection Date: | 16-Oct-2014 18:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-28-A | Lab Sample ID: | 680-106200-28 | | |
| Client ID: | CV0748WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 17 | Worklist Smp#: | 18 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 8 2-Methylnaphthalene, CAS: 91-57-6

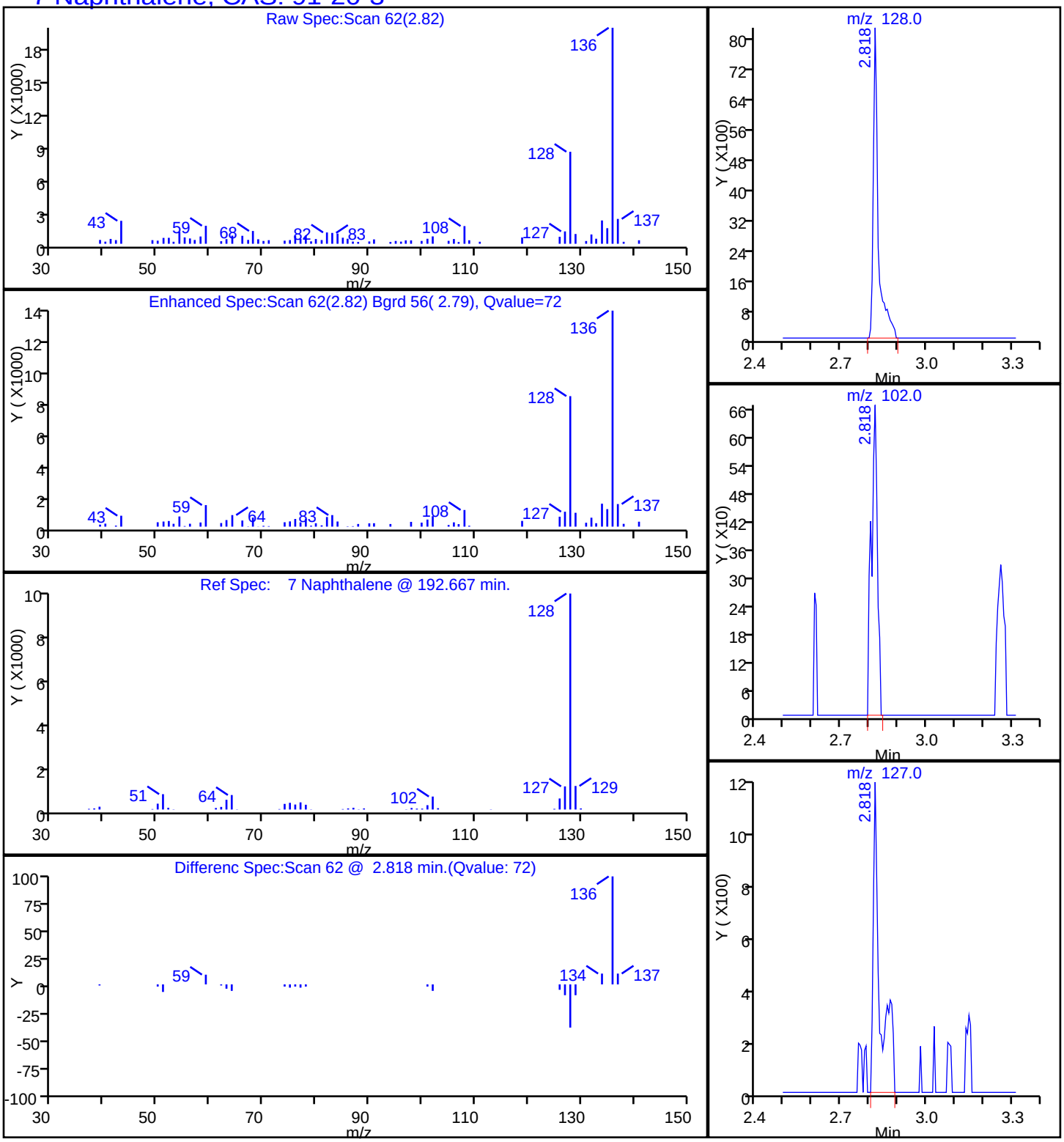


Report Date: 17-Oct-2014 08:59:12 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1618.D | | | | |
| Injection Date: | 16-Oct-2014 18:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-28-A | Lab Sample ID: | 680-106200-28 | | |
| Client ID: | CV0748WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 17 | Worklist Smp#: | 18 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 7 Naphthalene, CAS: 91-20-3

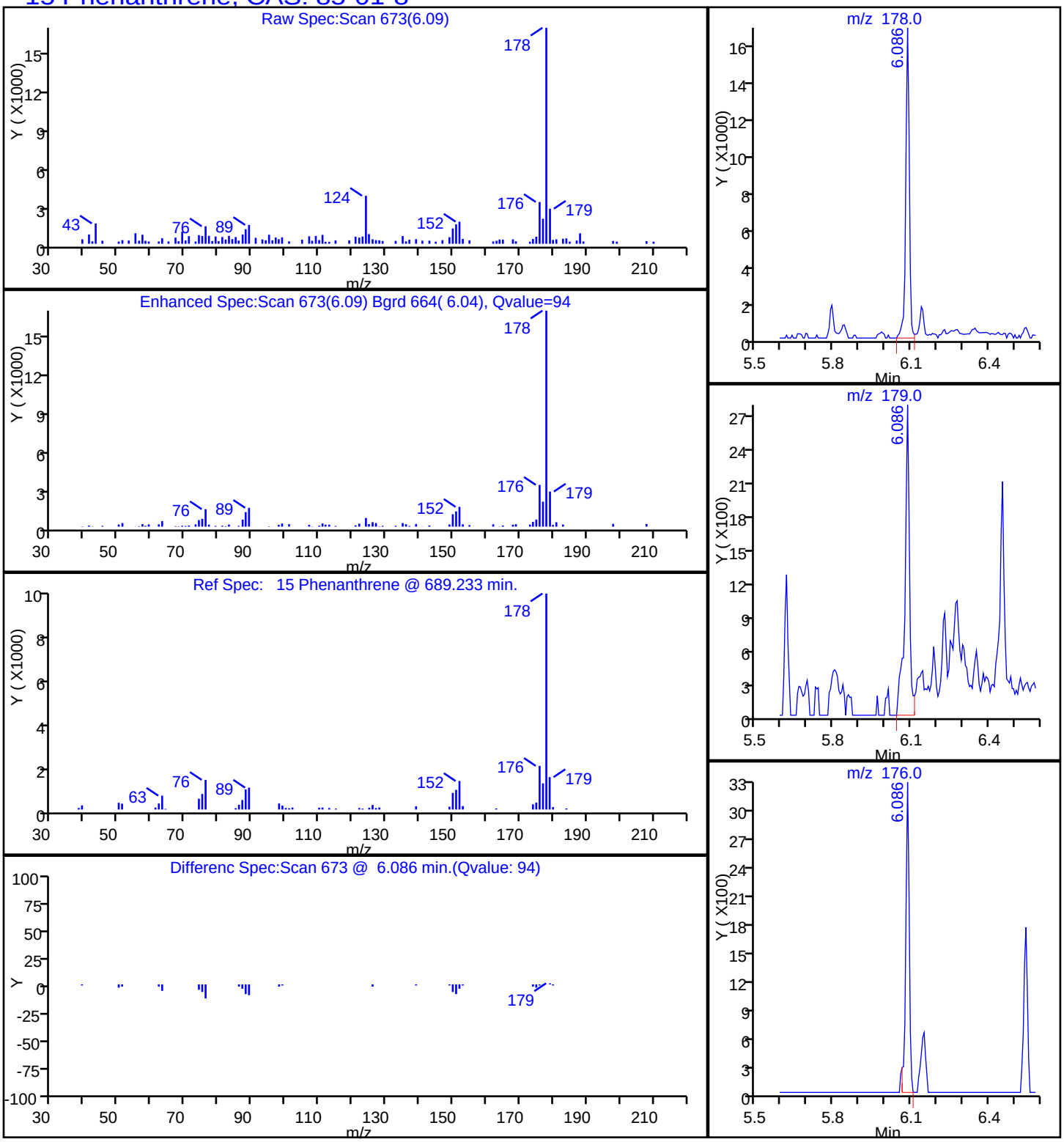


Report Date: 17-Oct-2014 08:59:12 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1618.D | | | | |
| Injection Date: | 16-Oct-2014 18:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-28-A | Lab Sample ID: | 680-106200-28 | | |
| Client ID: | CV0748WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 17 | Worklist Smp#: | 18 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 15 Phenanthrene, CAS: 85-01-8

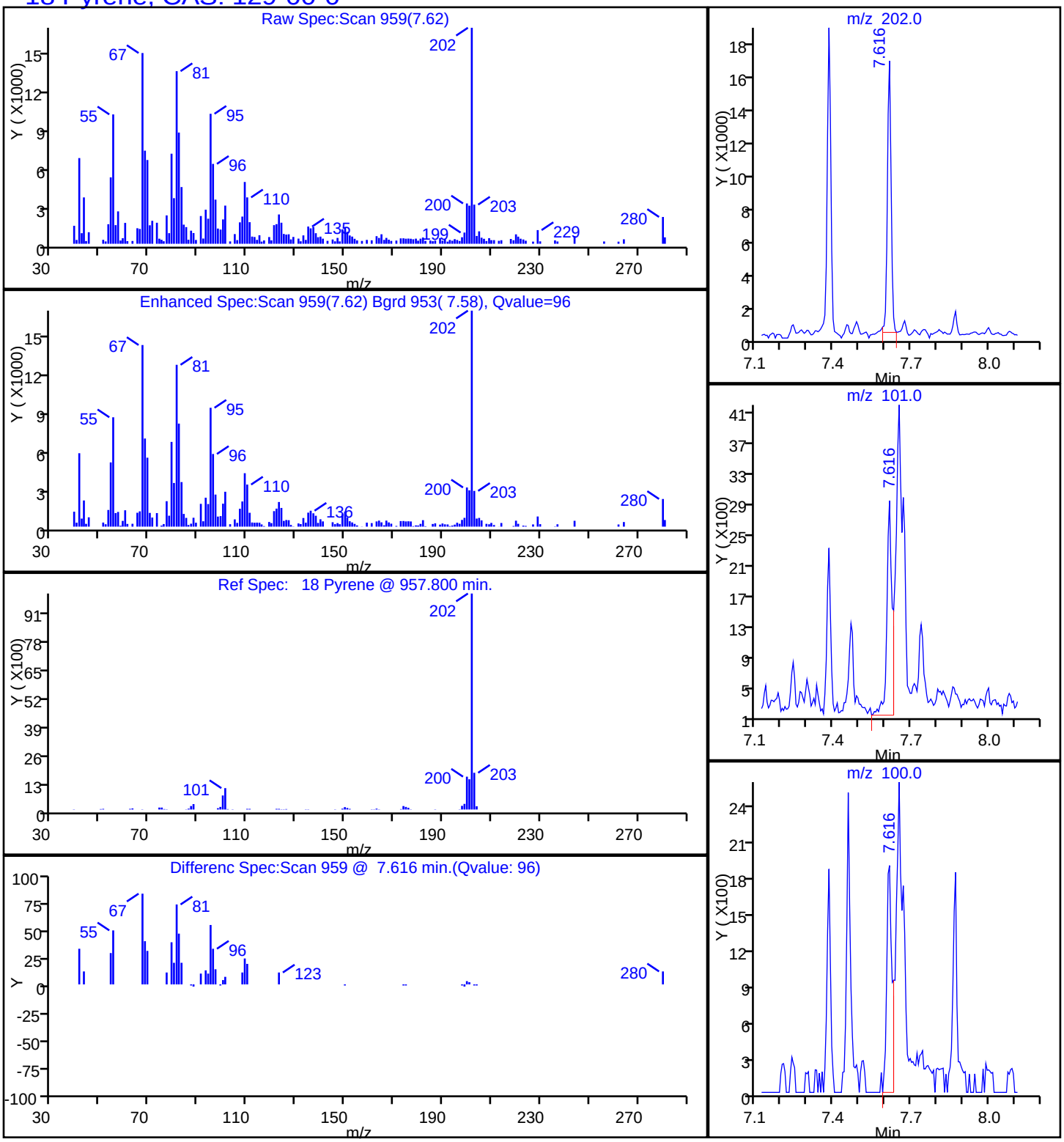


Report Date: 17-Oct-2014 08:59:13 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1618.D | | | | |
| Injection Date: | 16-Oct-2014 18:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-28-A | Lab Sample ID: | 680-106200-28 | | |
| Client ID: | CV0748WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 17 | Worklist Smp#: | 18 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 18 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

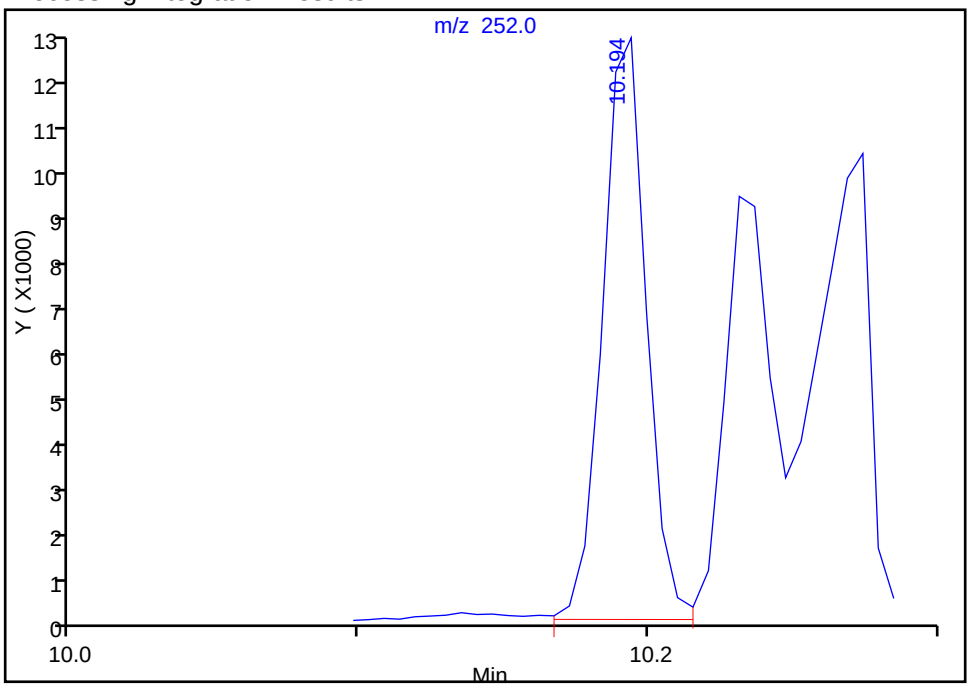
TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1618.D | | | | |
| Injection Date: | 16-Oct-2014 18:06:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-28-A | Lab Sample ID: | 680-106200-28 | | |
| Client ID: | CV0748WW-CS12 | | | | |
| Operator ID: | RM | ALS Bottle#: | 17 | Worklist Smp#: | 18 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

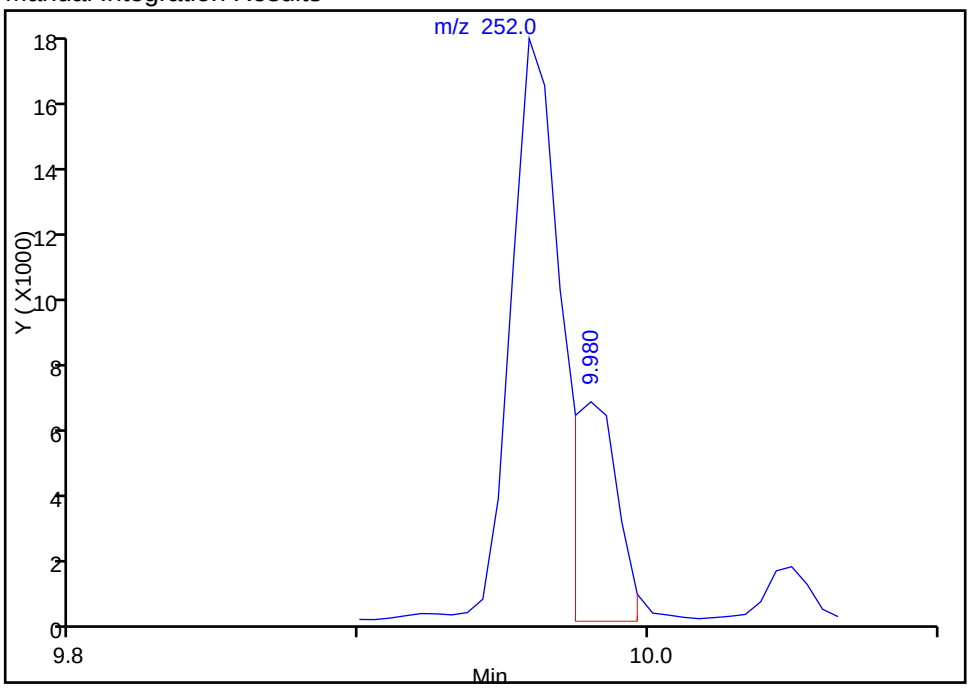
Processing Integration Results

RT: 10.19
Response: 13076
Amount: 0.219720




Manual Integration Results

RT: 9.98
Response: 7380
Amount: 0.123958




Reviewer: webbk, 17-Oct-2014 08:50:54
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0748WW-CS18 | Lab Sample ID: 680-106200-29

Matrix: Solid | Lab File ID: 1YJ1619.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 13:00

Extract. Method: 3546 | Date Extracted: 10/15/2014 10:01

Sample wt/vol: 30.05(g) | Date Analyzed: 10/16/2014 18:28

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 15.8 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353862 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 7.9 | U | 7.9 | 3.9 |
| 208-96-8 | Acenaphthylene | 7.9 | U | 7.9 | 3.9 |
| 120-12-7 | Anthracene | 7.9 | U | 7.9 | 3.9 |
| 56-55-3 | Benzo[a]anthracene | 6.7 | J | 7.9 | 3.9 |
| 50-32-8 | Benzo[a]pyrene | 6.9 | J | 7.9 | 1.4 |
| 205-99-2 | Benzo[b]fluoranthene | 11 | | 7.9 | 3.9 |
| 191-24-2 | Benzo[g,h,i]perylene | 7.0 | J | 7.9 | 3.9 |
| 207-08-9 | Benzo[k]fluoranthene | 4.0 | J | 7.9 | 2.4 |
| 218-01-9 | Chrysene | 9.8 | | 7.9 | 3.9 |
| 53-70-3 | Dibenz(a,h)anthracene | 7.9 | U | 7.9 | 3.9 |
| 206-44-0 | Fluoranthene | 7.5 | J | 7.9 | 3.9 |
| 86-73-7 | Fluorene | 7.9 | U | 7.9 | 3.9 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 5.0 | J | 7.9 | 3.9 |
| 90-12-0 | 1-Methylnaphthalene | 6.2 | J | 7.9 | 3.7 |
| 91-57-6 | 2-Methylnaphthalene | 4.6 | J | 7.9 | 3.9 |
| 91-20-3 | Naphthalene | 7.9 | U | 7.9 | 3.9 |
| 85-01-8 | Phenanthrene | 15 | | 7.9 | 2.8 |
| 129-00-0 | Pyrene | 9.1 | | 7.9 | 3.9 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 115 | | 36-131 |

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1619.D
Lims ID: 680-106200-A-29-A Lab Sample ID: 680-106200-29
Client ID: CV0748WW-CS18
Sample Type: Client
Inject. Date: 16-Oct-2014 18:28:30 ALS Bottle#: 18 Worklist Smp#: 19
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 106200-A-29-A
Misc. Info.: 680-0013814-019
Operator ID: RM Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141016-13814.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 17-Oct-2014 08:59:05 Calib Date: 07-Oct-2014 15:41:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 17-Oct-2014 08:51:57

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.802 | 2.803 | -0.001 | 98 | 147826 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.493 | 4.487 | 0.006 | 90 | 86082 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.065 | 6.054 | 0.011 | 97 | 136753 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 8.932 | 8.927 | 0.005 | 99 | 107139 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.285 | 10.269 | 0.016 | 98 | 90138 | 2.00 | |
| $ 6 o-Terphenyl | 230 | 6.546 | 6.541 | 0.005 | 91 | 79148 | 2.30 | |
| 7 Naphthalene | 128 | 2.818 | 2.819 | -0.001 | 69 | 7723 | 0.0958 | |
| 8 2-Methylnaphthalene | 142 | 3.460 | 3.455 | 0.005 | 56 | 6284 | 0.1175 | |
| 9 1-Methylnaphthalene | 142 | 3.551 | 3.546 | 0.005 | 58 | 7761 | 0.1565 | |
| 15 Phenanthrene | 178 | 6.086 | 6.081 | 0.005 | 94 | 31682 | 0.3871 | |
| 16 Anthracene | 178 | 6.140 | 6.135 | 0.005 | 72 | 3056 | 0.0375 | 7 |
| 17 Fluoranthene | 202 | 7.381 | 7.376 | 0.005 | 98 | 16533 | 0.1906 | |
| 18 Pyrene | 202 | 7.616 | 7.606 | 0.010 | 93 | 16160 | 0.2303 | |
| 19 Benzo[a]anthracene | 228 | 8.927 | 8.916 | 0.011 | 49 | 10579 | 0.1688 | |
| 20 Chrysene | 228 | 8.959 | 8.953 | 0.006 | 90 | 14789 | 0.2473 | |
| 21 Benzo[b]fluoranthene | 252 | 9.959 | 9.948 | 0.011 | 75 | 16098 | 0.2715 | |
| 22 Benzo[k]fluoranthene | 252 | 9.980 | 9.975 | 0.005 | 89 | 5819 | 0.1010 | M |
| 23 Benzo[a]pyrene | 252 | 10.232 | 10.221 | 0.011 | 94 | 8477 | 0.1738 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.125 | 11.109 | 0.016 | 93 | 7461 | 0.1268 | |
| 26 Benzo[g,h,i]perylene | 276 | 11.344 | 11.323 | 0.021 | 79 | 7906 | 0.1779 | |

## QC Flag Legend

Processing Flags
7 - Failed Limit of Detection
Review Flags
M - Manually Integrated

## Reagents:

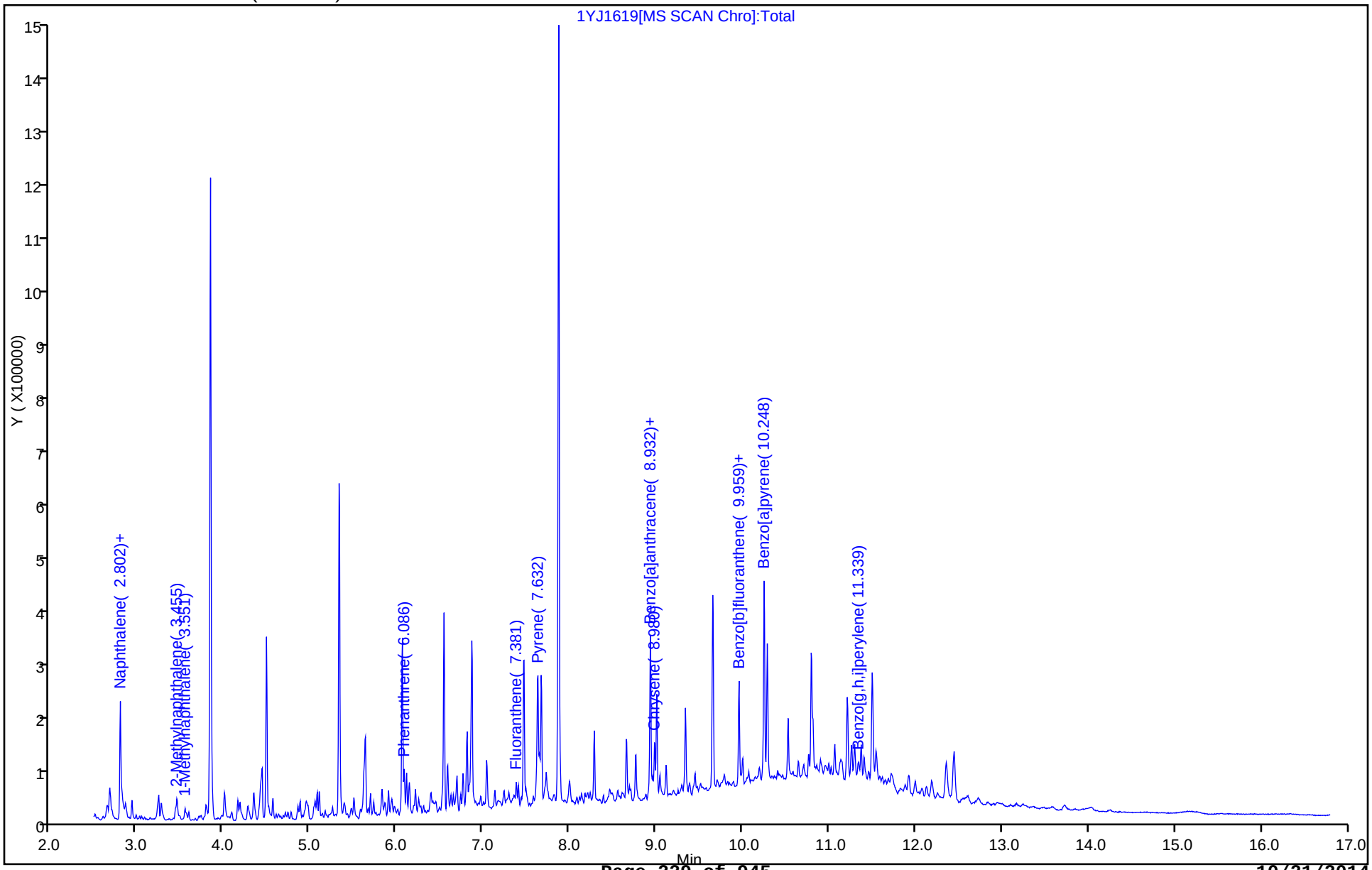
SM-LLISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 17-Oct-2014 08:59:12 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1619.D | | | | |
| Injection Date: | 16-Oct-2014 18:28:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | 680-106200-A-29-A | Lab Sample ID: | 680-106200-29 | Worklist Smp#: | 19 |
| Client ID: | CV0748WW-CS18 | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | ALS Bottle#: | 18 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)

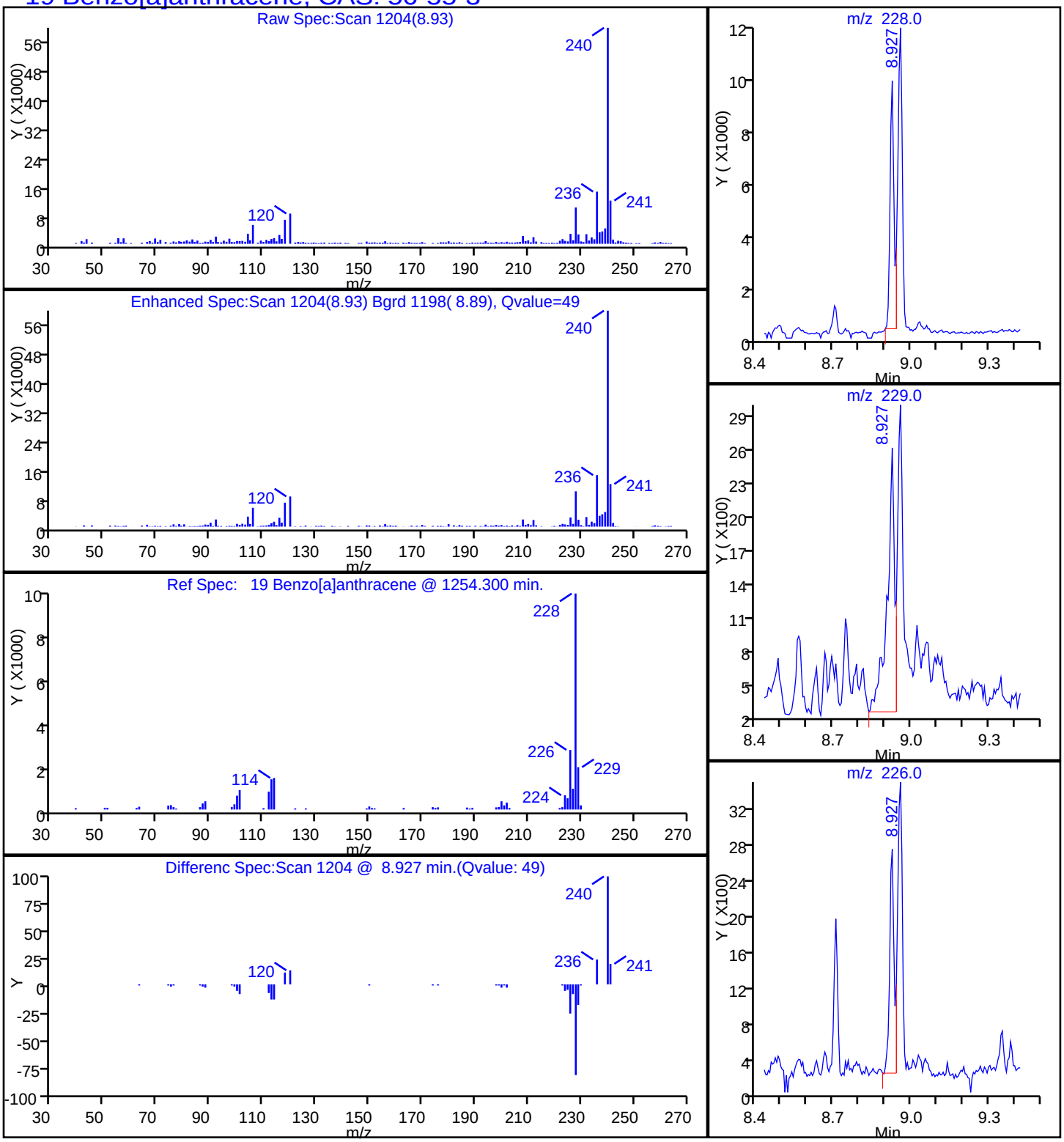


Report Date: 17-Oct-2014 08:59:12 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1619.D | | | | |
| Injection Date: | 16-Oct-2014 18:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-29-A | Lab Sample ID: | 680-106200-29 | | |
| Client ID: | CV0748WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 18 | Worklist Smp#: | 19 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

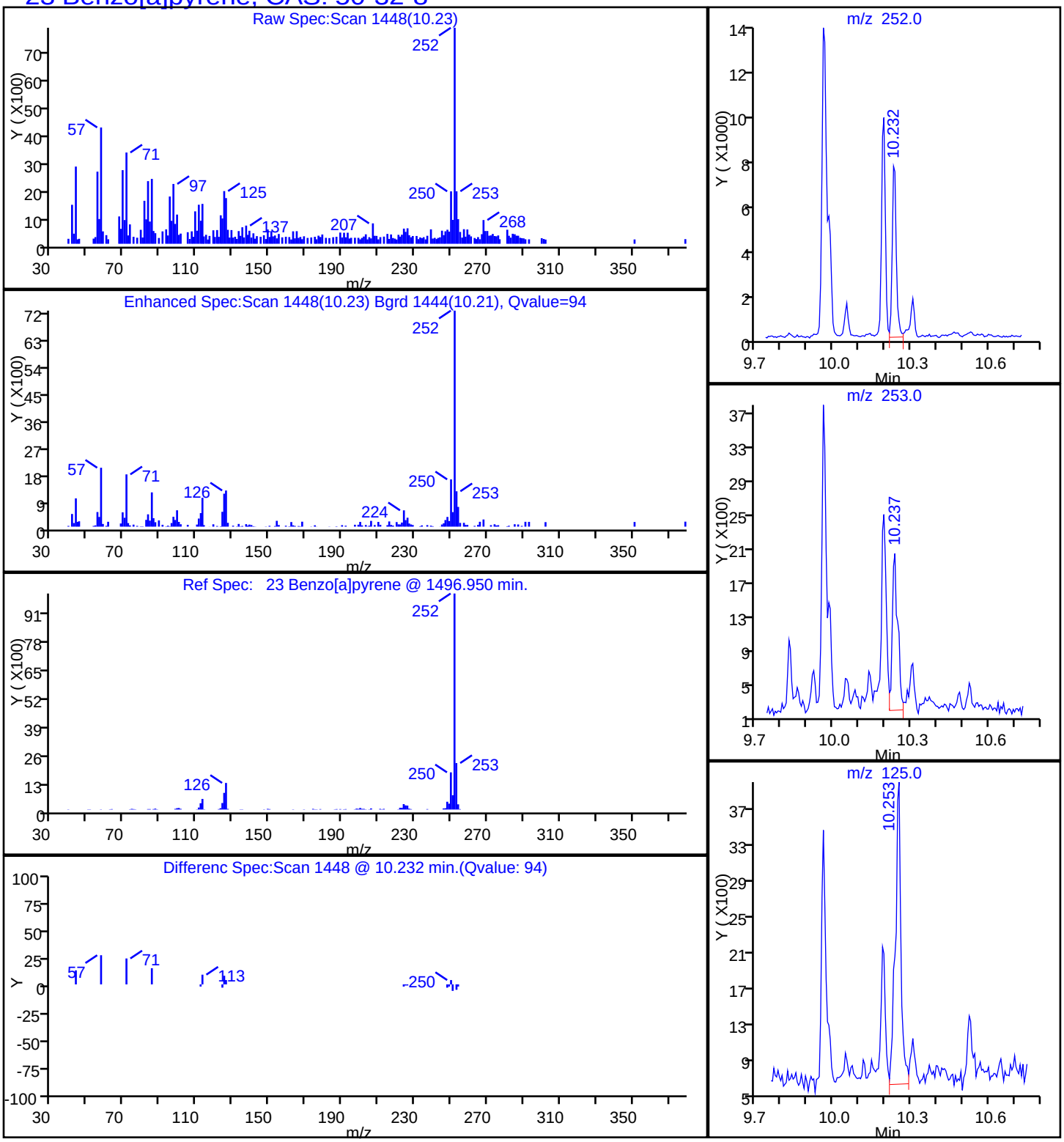


Report Date: 17-Oct-2014 08:59:12 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1619.D | | | | |
| Injection Date: | 16-Oct-2014 18:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-29-A | Lab Sample ID: | 680-106200-29 | | |
| Client ID: | CV0748WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 18 | Worklist Smp#: | 19 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

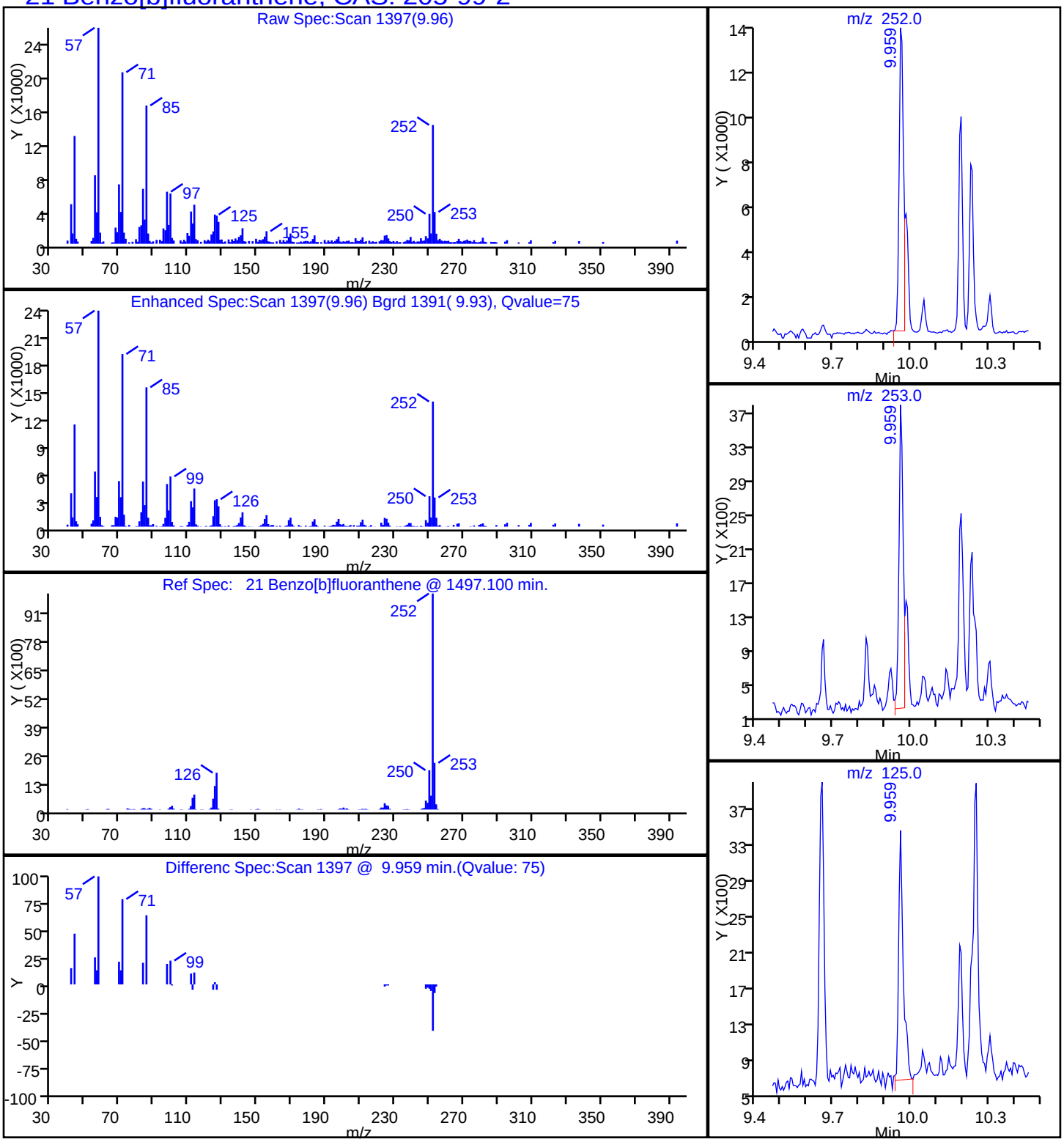


Report Date: 17-Oct-2014 08:59:12 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1619.D | | | | |
| Injection Date: | 16-Oct-2014 18:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-29-A | Lab Sample ID: | 680-106200-29 | | |
| Client ID: | CV0748WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 18 | Worklist Smp#: | 19 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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



Report Date: 17-Oct-2014 08:59:12 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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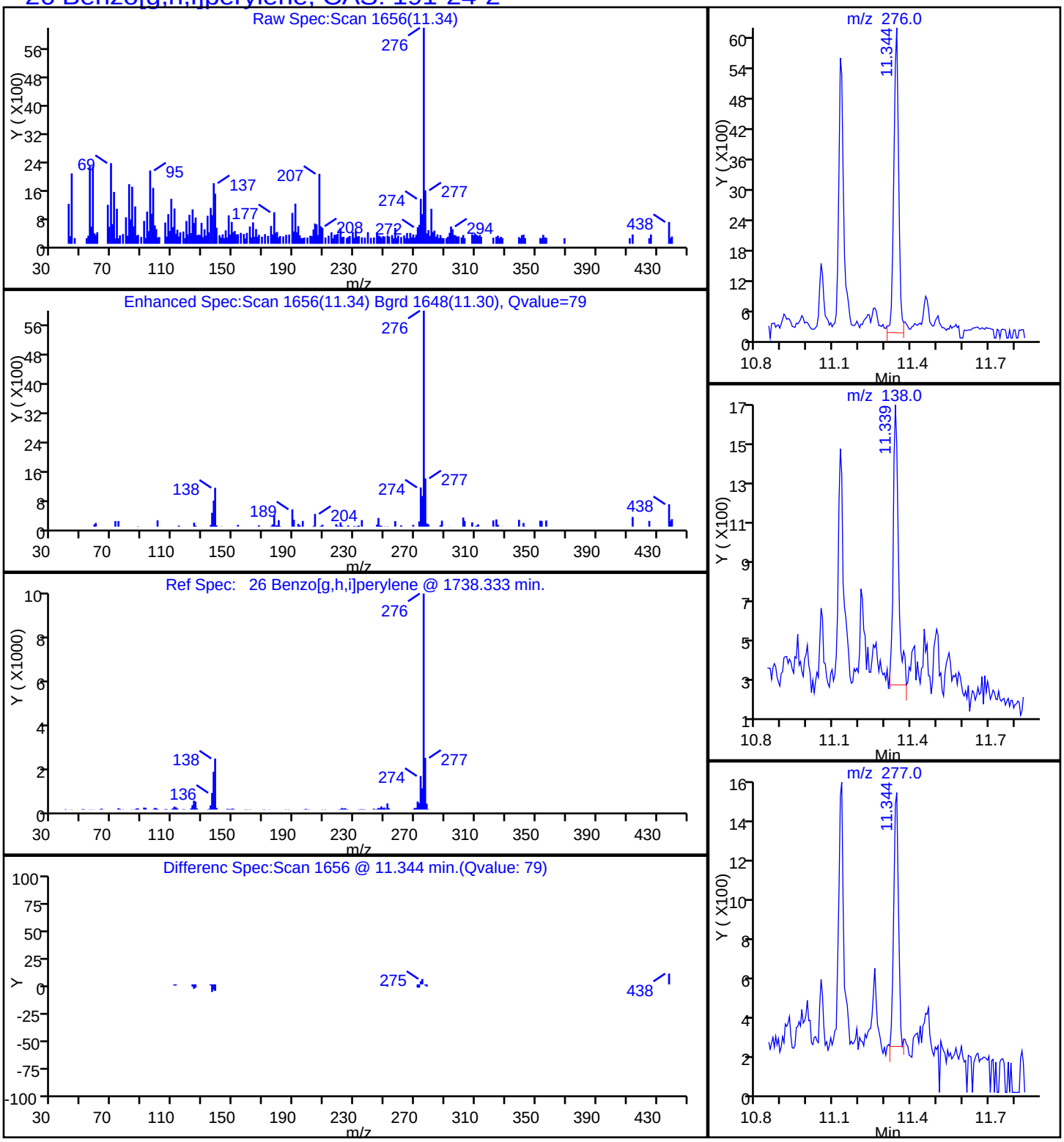
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1619.D | | | | |
| Injection Date: | 16-Oct-2014 18:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-29-A | Lab Sample ID: | 680-106200-29 | | |
| Client ID: | CV0748WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 18 | Worklist Smp#: | 19 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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



Report Date: 17-Oct-2014 08:59:12 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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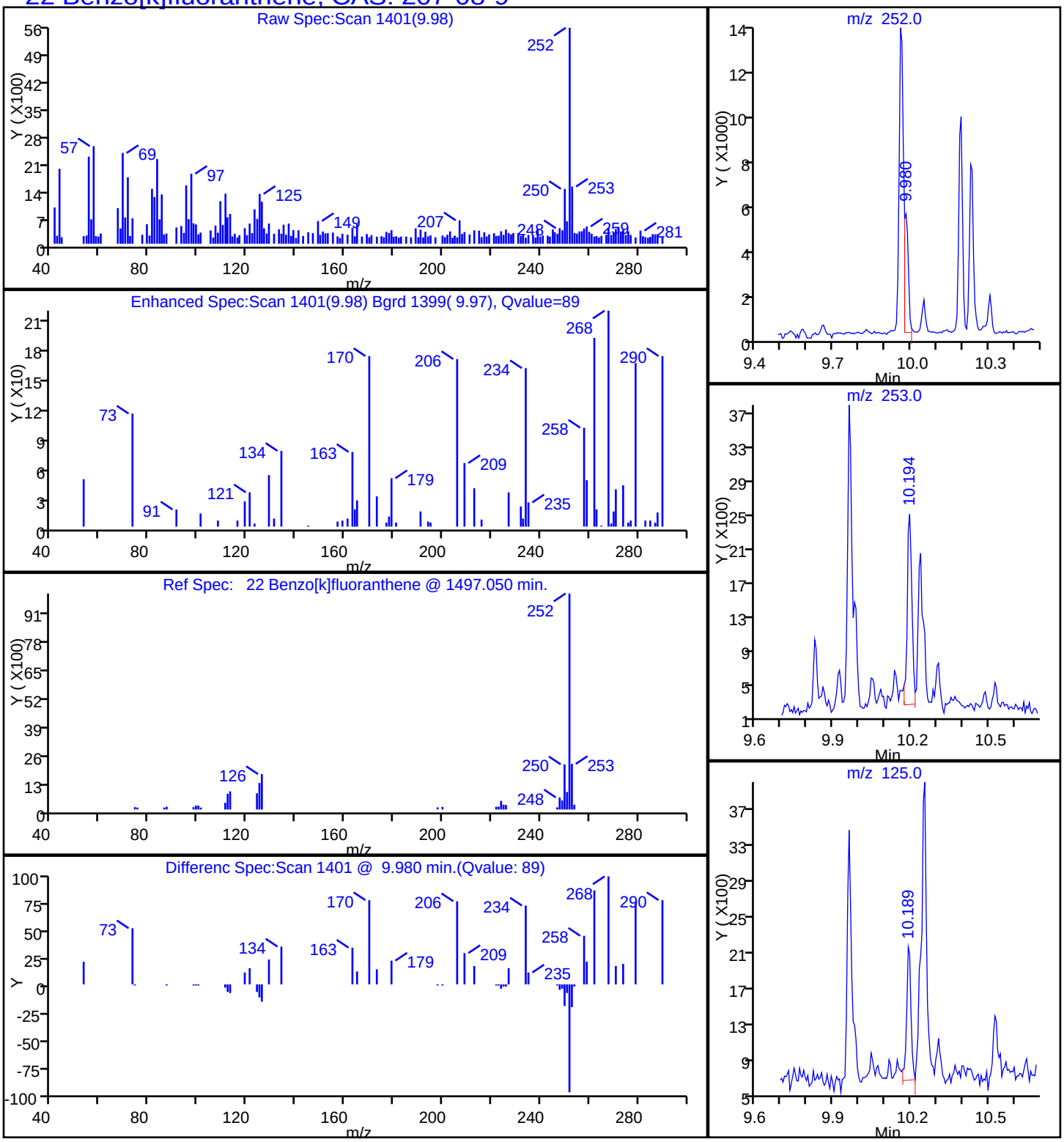
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1619.D | | | | |
| Injection Date: | 16-Oct-2014 18:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-29-A | Lab Sample ID: | 680-106200-29 | | |
| Client ID: | CV0748WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 18 | Worklist Smp#: | 19 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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



Report Date: 17-Oct-2014 08:59:12 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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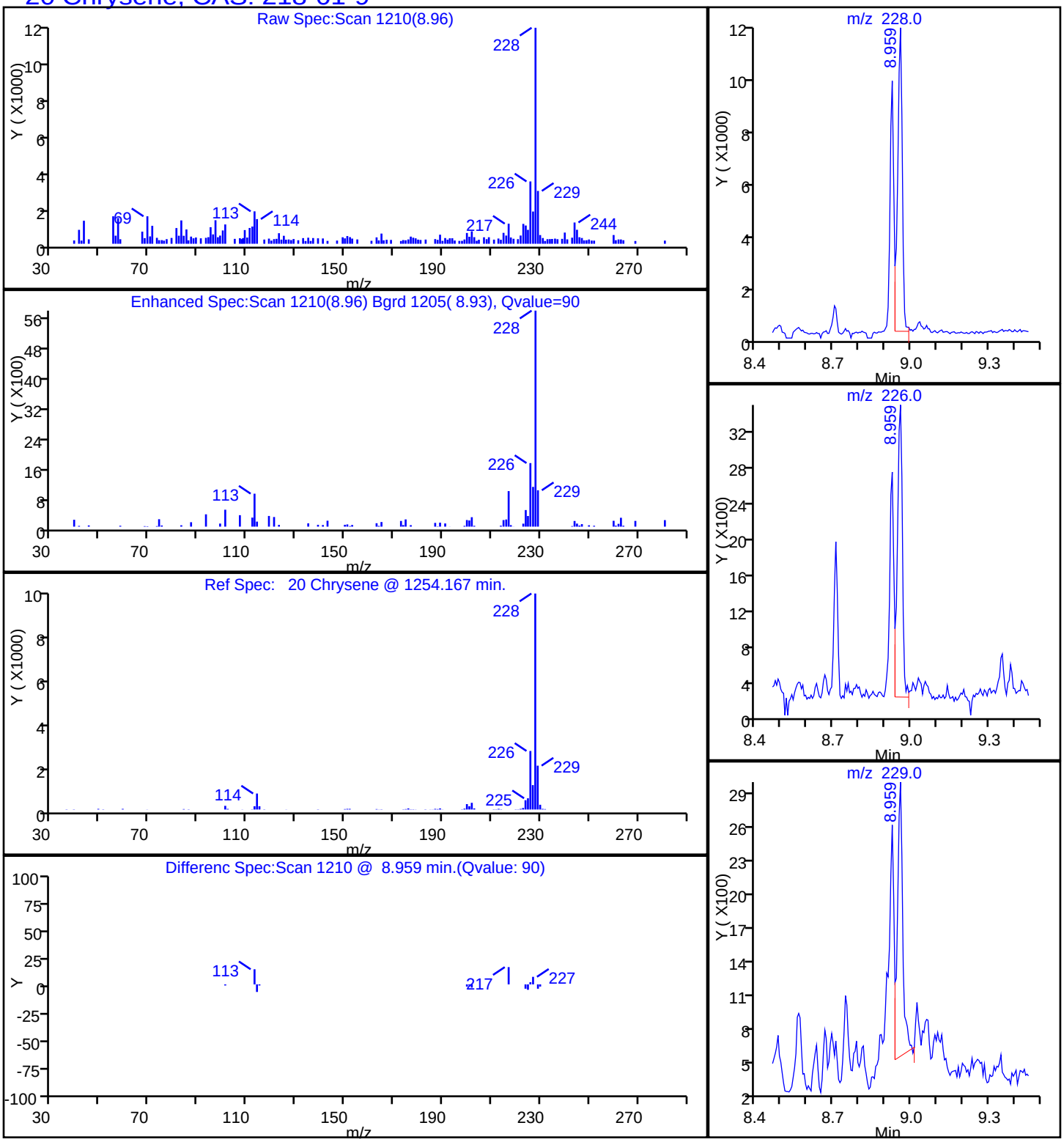
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1619.D | | | | |
| Injection Date: | 16-Oct-2014 18:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-29-A | Lab Sample ID: | 680-106200-29 | | |
| Client ID: | CV0748WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 18 | Worklist Smp#: | 19 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 20 Chrysene, CAS: 218-01-9



Report Date: 17-Oct-2014 08:59:12 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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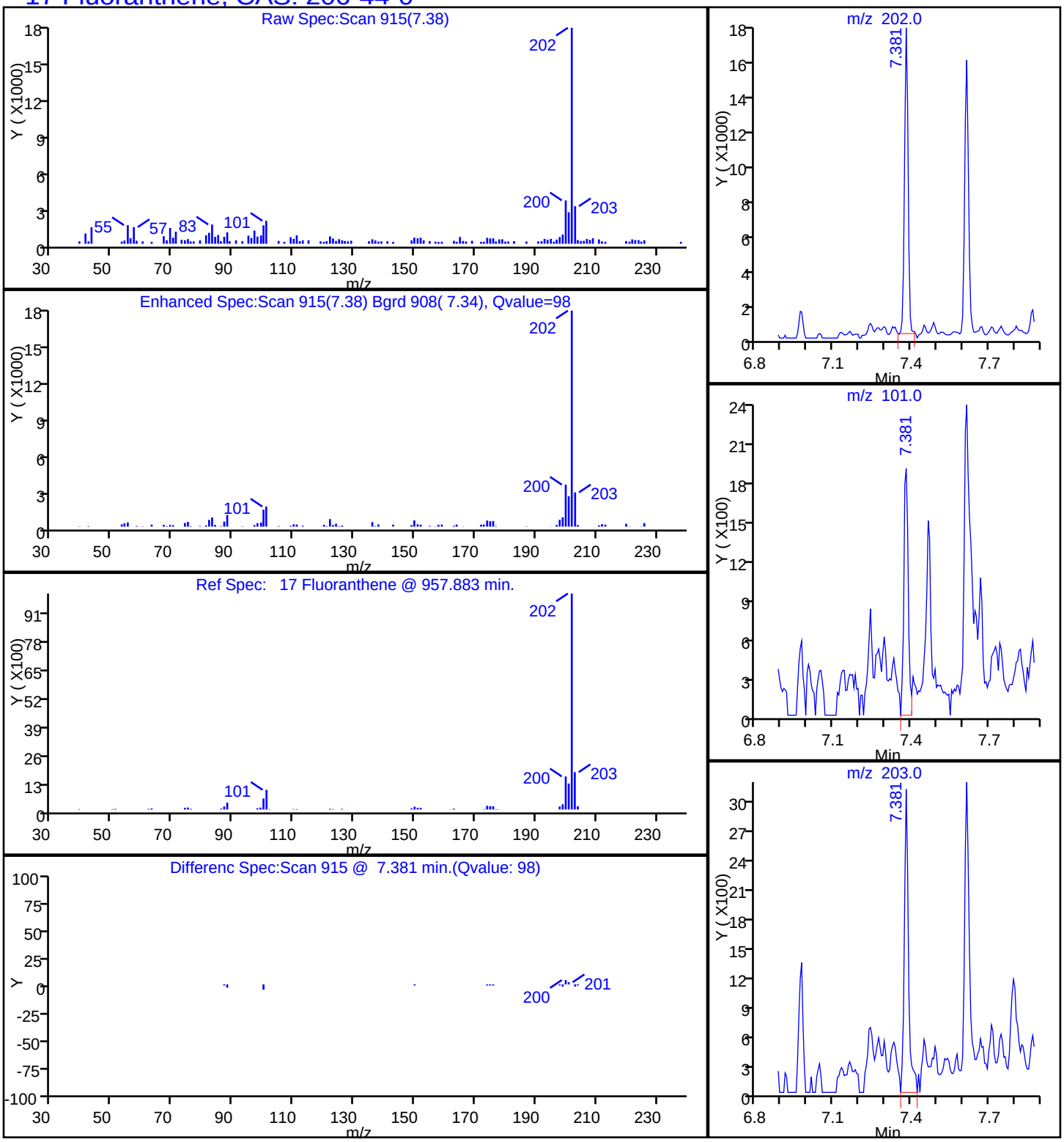
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1619.D | | | | |
| Injection Date: | 16-Oct-2014 18:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-29-A | Lab Sample ID: | 680-106200-29 | | |
| Client ID: | CV0748WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 18 | Worklist Smp#: | 19 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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



Report Date: 17-Oct-2014 08:59:12 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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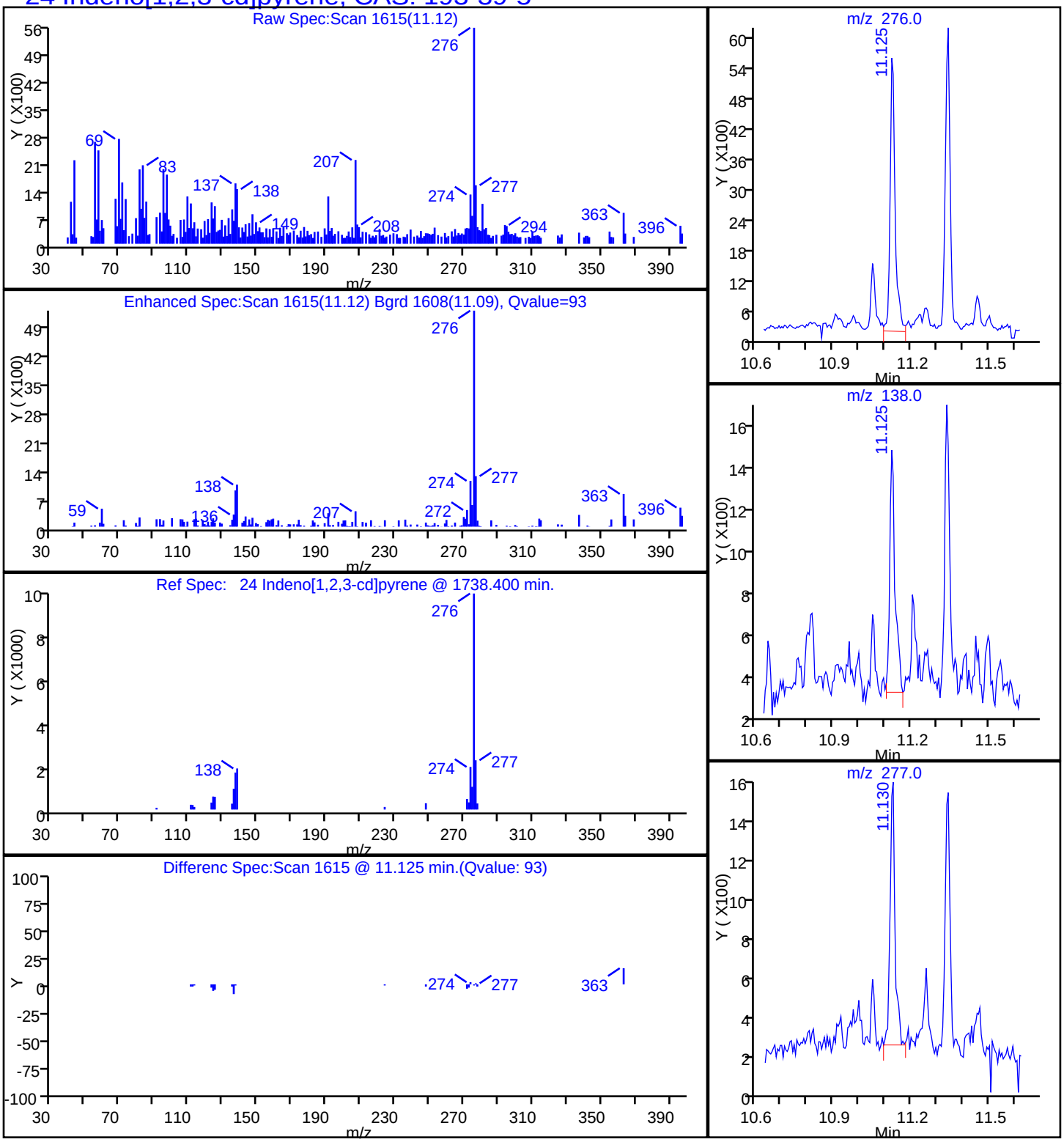
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1619.D | | | | |
| Injection Date: | 16-Oct-2014 18:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-29-A | Lab Sample ID: | 680-106200-29 | | |
| Client ID: | CV0748WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 18 | Worklist Smp#: | 19 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

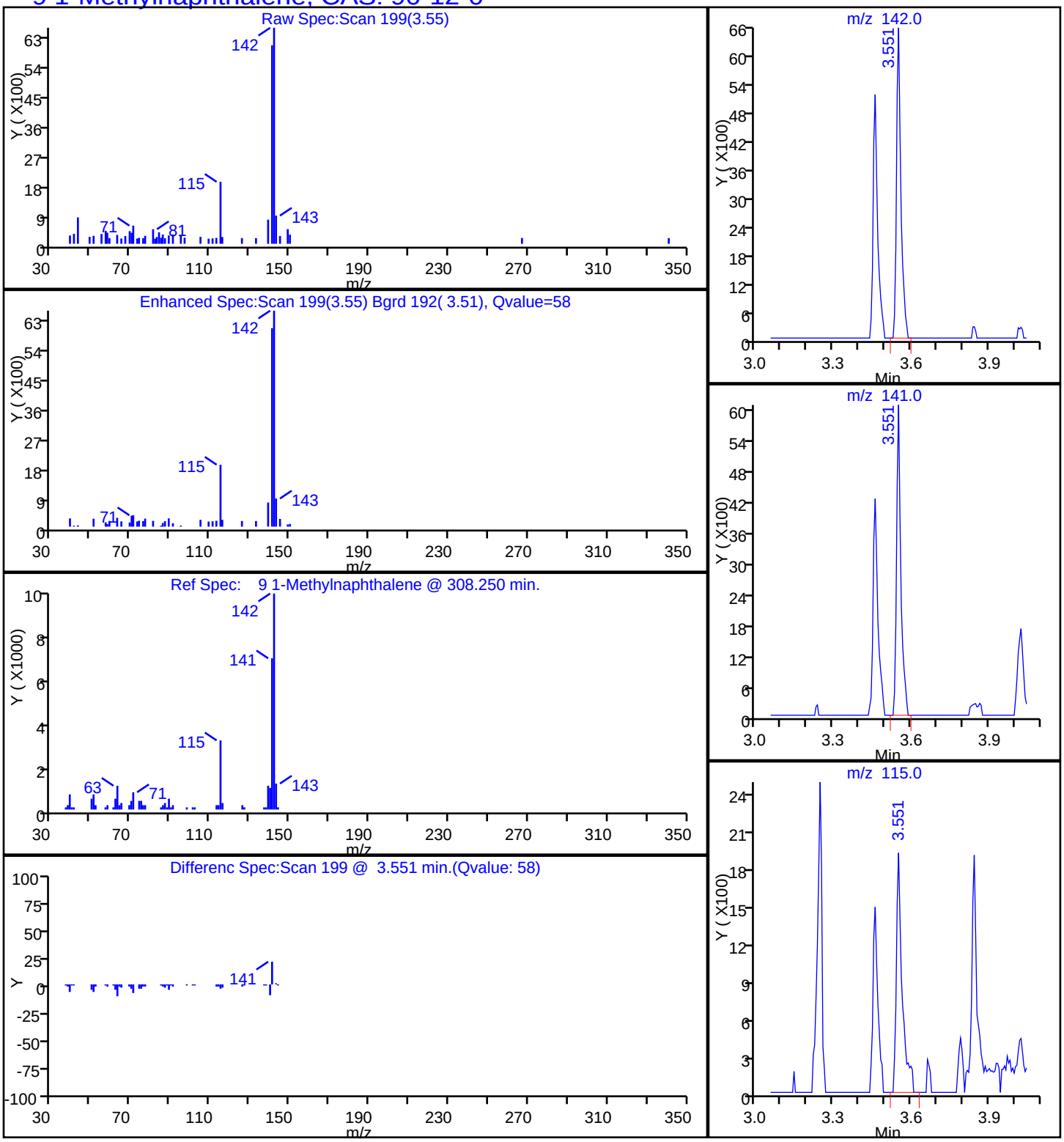


Report Date: 17-Oct-2014 08:59:12 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1619.D | | | | |
| Injection Date: | 16-Oct-2014 18:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-29-A | Lab Sample ID: | 680-106200-29 | | |
| Client ID: | CV0748WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 18 | Worklist Smp#: | 19 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 9 1-Methylnaphthalene, CAS: 90-12-0

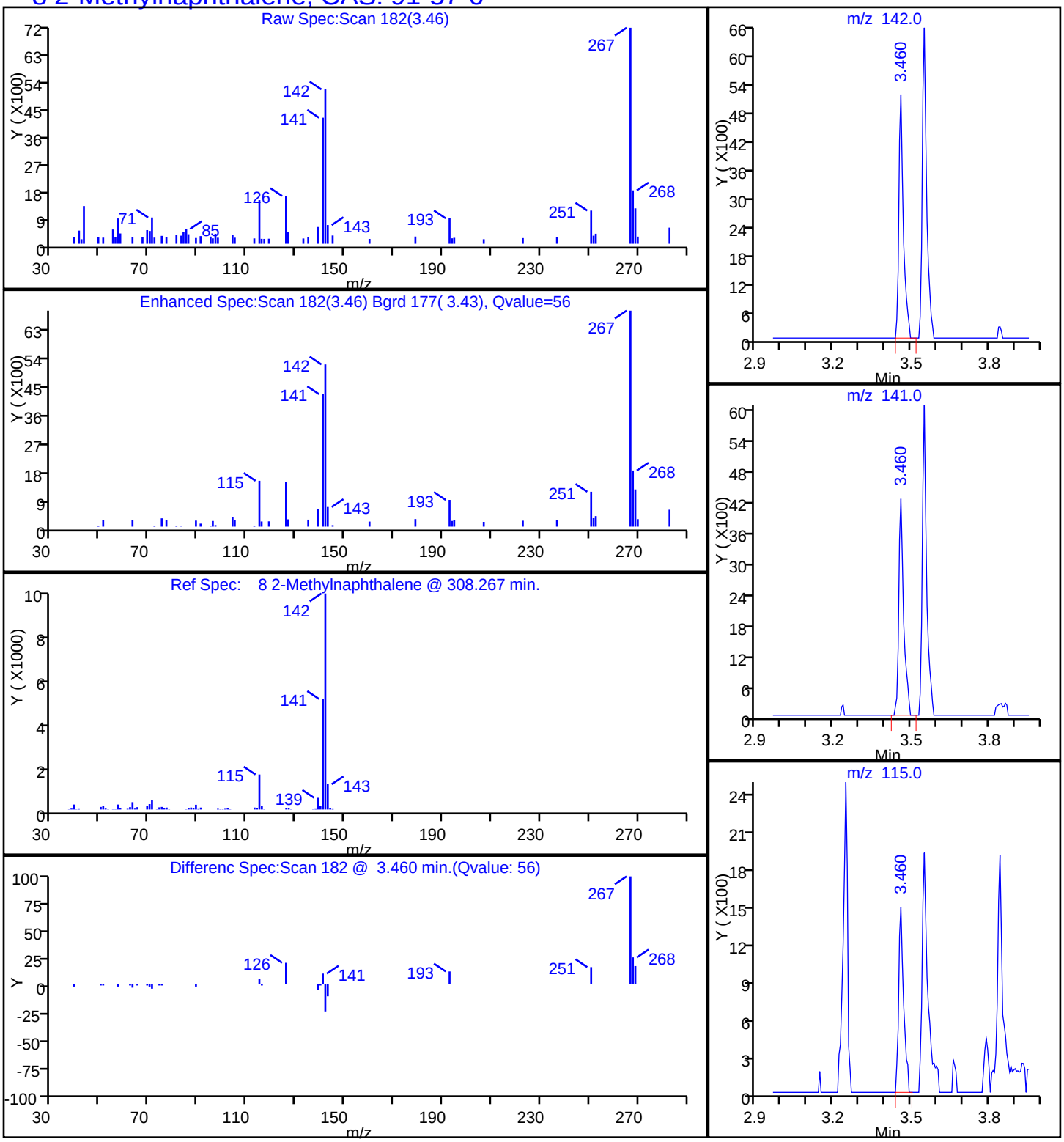


Report Date: 17-Oct-2014 08:59:12 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1619.D | | | | |
| Injection Date: | 16-Oct-2014 18:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-29-A | Lab Sample ID: | 680-106200-29 | | |
| Client ID: | CV0748WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 18 | Worklist Smp#: | 19 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 8 2-Methylnaphthalene, CAS: 91-57-6

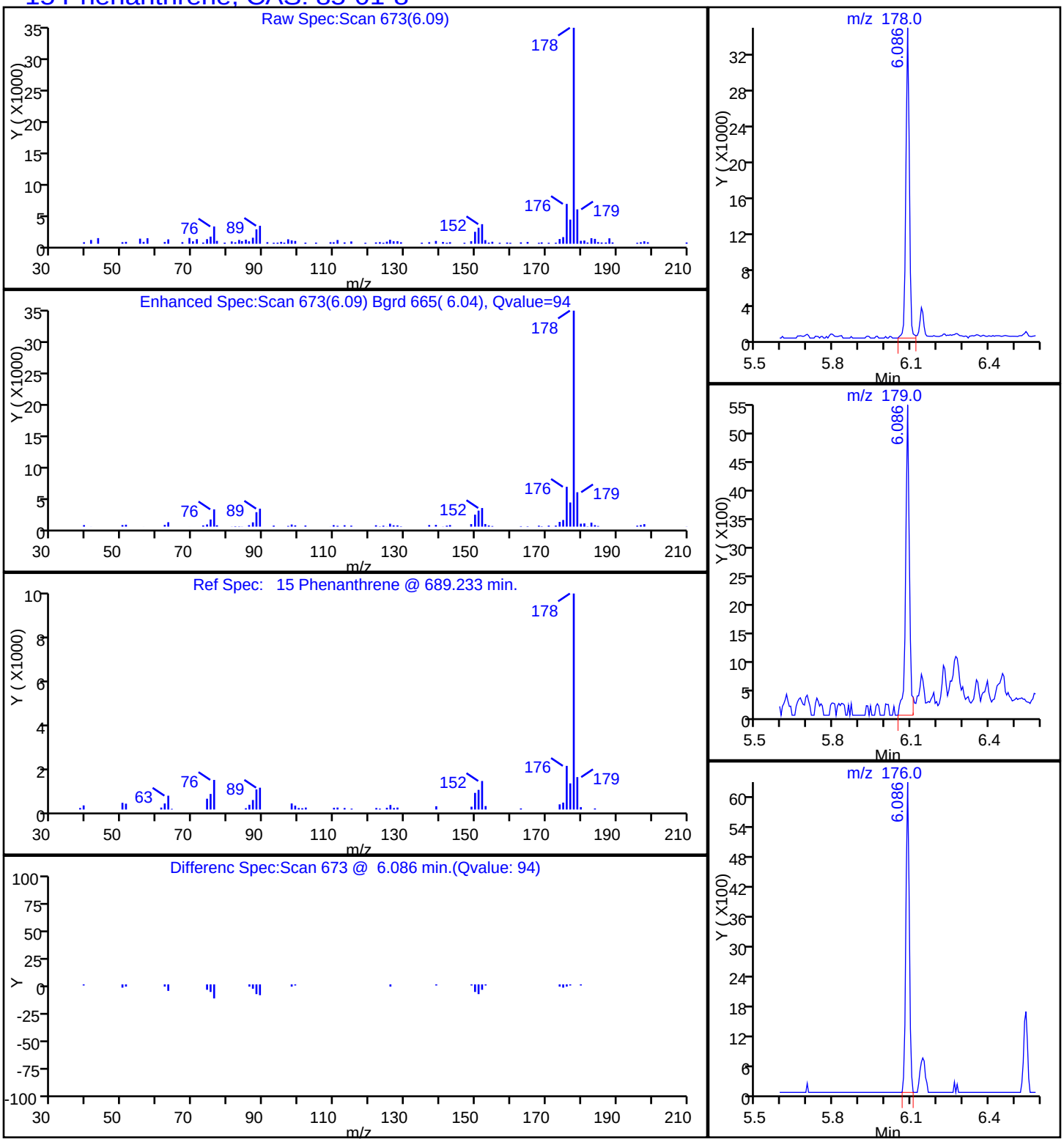


Report Date: 17-Oct-2014 08:59:12 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1619.D | | | | |
| Injection Date: | 16-Oct-2014 18:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-29-A | Lab Sample ID: | 680-106200-29 | | |
| Client ID: | CV0748WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 18 | Worklist Smp#: | 19 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 15 Phenanthrene, CAS: 85-01-8

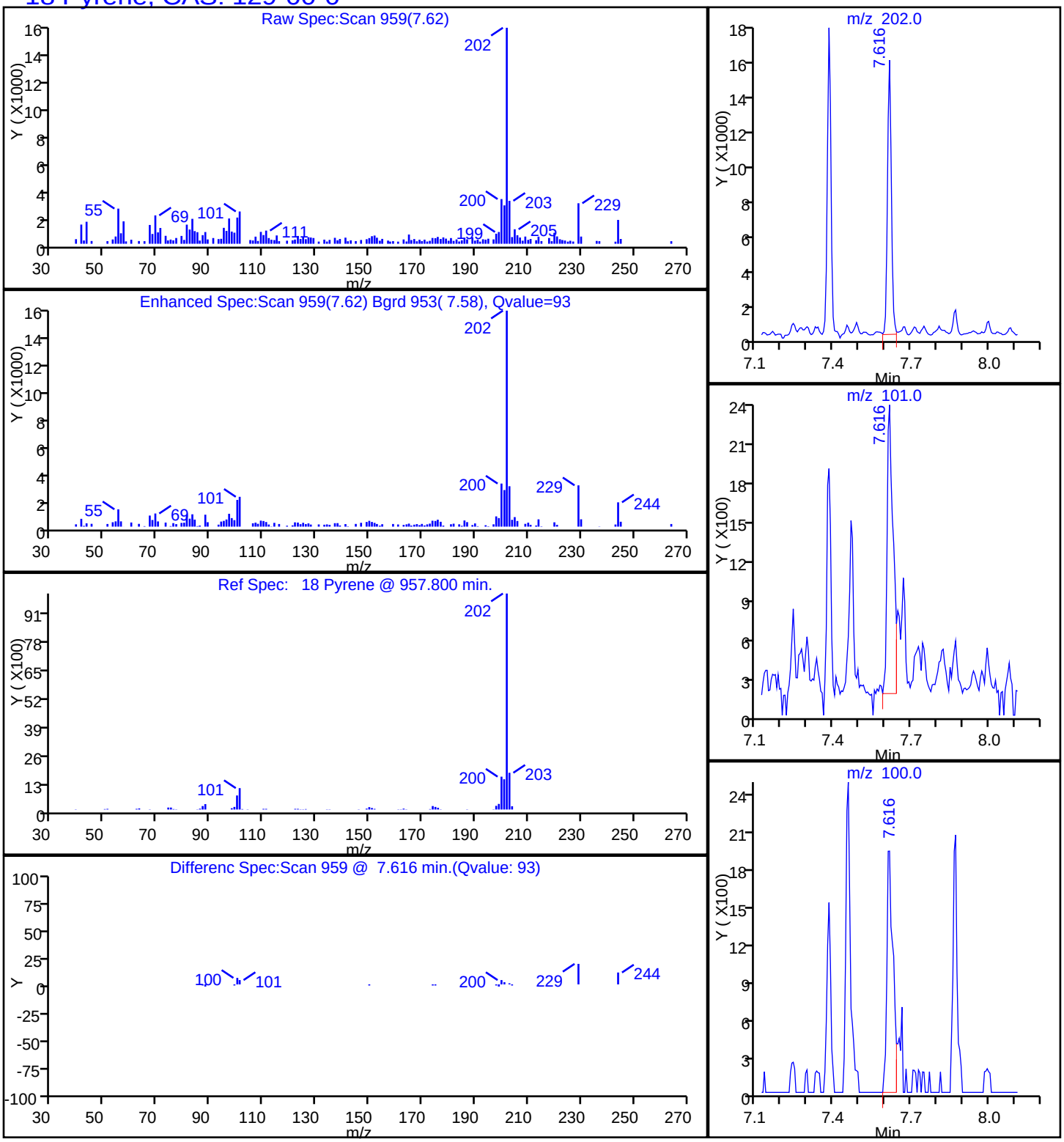


Report Date: 17-Oct-2014 08:59:12 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1619.D | | | | |
| Injection Date: | 16-Oct-2014 18:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-29-A | Lab Sample ID: | 680-106200-29 | | |
| Client ID: | CV0748WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 18 | Worklist Smp#: | 19 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 18 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

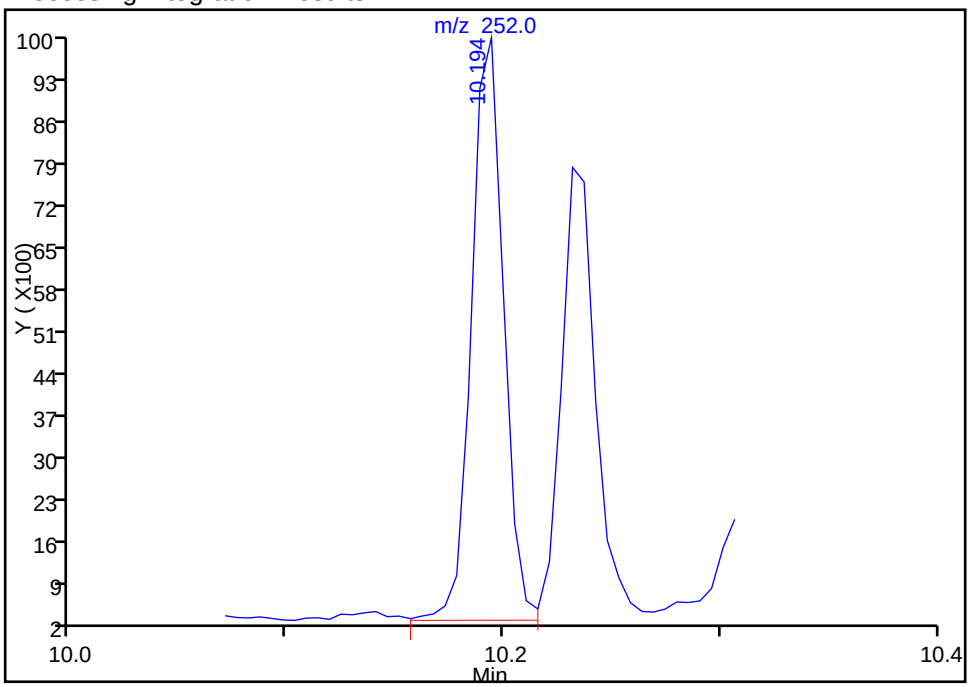
TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1619.D | | | | |
| Injection Date: | 16-Oct-2014 18:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-29-A | Lab Sample ID: | 680-106200-29 | | |
| Client ID: | CV0748WW-CS18 | | | | |
| Operator ID: | RM | ALS Bottle#: | 18 | Worklist Smp#: | 19 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

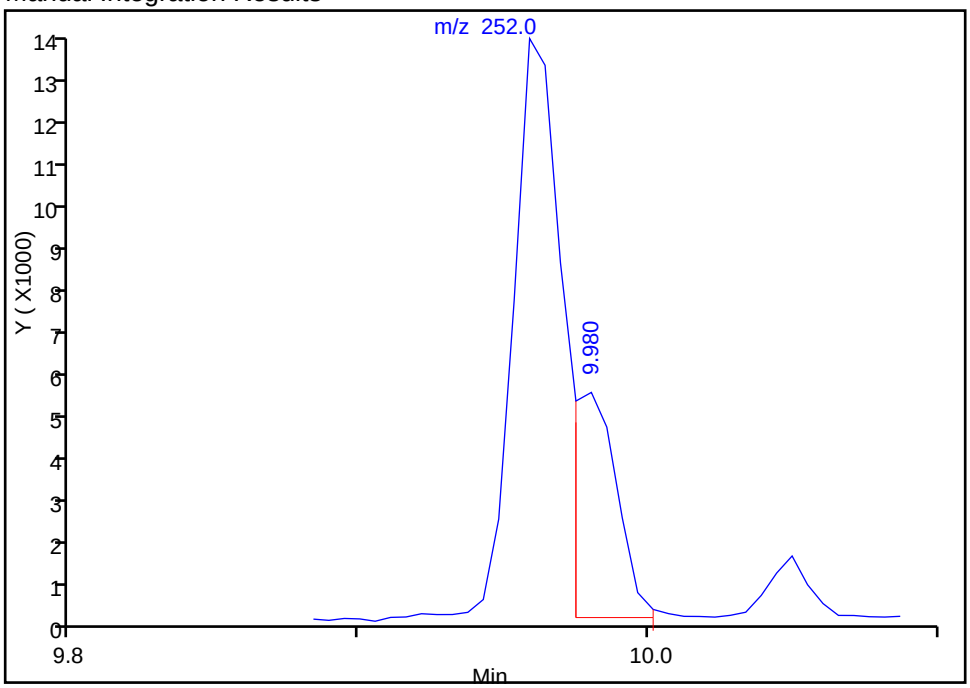
Processing Integration Results

RT: 10.19
Response: 10038
Amount: 0.174252




Manual Integration Results

RT: 9.98
Response: 5819
Amount: 0.100982




Reviewer: webbk, 17-Oct-2014 08:51:57
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0748WW-CS24 | Lab Sample ID: 680-106200-30

Matrix: Solid | Lab File ID: 1YJ1620.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 13:10

Extract. Method: 3546 | Date Extracted: 10/15/2014 10:01

Sample wt/vol: 29.99(g) | Date Analyzed: 10/16/2014 18:51

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 12.1 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353862 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 7.6 | U | 7.6 | 3.8 |
| 208-96-8 | Acenaphthylene | 7.6 | U | 7.6 | 3.8 |
| 120-12-7 | Anthracene | 7.6 | U | 7.6 | 3.8 |
| 56-55-3 | Benzo[a]anthracene | 6.0 | J | 7.6 | 3.8 |
| 50-32-8 | Benzo[a]pyrene | 4.8 | J | 7.6 | 1.4 |
| 205-99-2 | Benzo[b]fluoranthene | 8.9 | | 7.6 | 3.8 |
| 191-24-2 | Benzo[g,h,i]perylene | 5.7 | J | 7.6 | 3.8 |
| 207-08-9 | Benzo[k]fluoranthene | 3.1 | J | 7.6 | 2.3 |
| 218-01-9 | Chrysene | 7.7 | | 7.6 | 3.8 |
| 53-70-3 | Dibenz(a,h)anthracene | 7.6 | U | 7.6 | 3.8 |
| 206-44-0 | Fluoranthene | 5.8 | J | 7.6 | 3.8 |
| 86-73-7 | Fluorene | 7.6 | U | 7.6 | 3.8 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 4.3 | J | 7.6 | 3.8 |
| 90-12-0 | 1-Methylnaphthalene | 3.8 | J | 7.6 | 3.5 |
| 91-57-6 | 2-Methylnaphthalene | 4.7 | J | 7.6 | 3.8 |
| 91-20-3 | Naphthalene | 4.6 | J | 7.6 | 3.8 |
| 85-01-8 | Phenanthrene | 7.6 | | 7.6 | 2.7 |
| 129-00-0 | Pyrene | 6.1 | J | 7.6 | 3.8 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 107 | | 36-131 |

TestAmerica Savannah
Target Compound Quantitation Report

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1620.D | | | | |
| Lims ID: | 680-106200-A-30-A | Lab Sample ID: | 680-106200-30 | | |
| Client ID: | CV0748WW-CS24 | | | | |
| Sample Type: | Client | | | | |
| Inject. Date: | 16-Oct-2014 18:51:30 | ALS Bottle#: | 19 | Worklist Smp#: | 20 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Sample Info: | 106200-A-30-A | | | | |
| Misc. Info.: | 680-0013814-020 | | | | |
| Operator ID: | RM | Instrument ID: | CMSY | | |

| | | | |
|---|---|---|---|
| Method: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\8270D_LLPAH_MSY.m | | |
| Limit Group: | 8270D_LL_PAH | | |
| Last Update: | 17-Oct-2014 08:59:05 | Calib Date: | 07-Oct-2014 15:41:30 |
| Integrator: | RTE | ID Type: | RT Order ID |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D | | |

| | | |
|---|---|---|
| Column 1 : | Restek RXi-5Sil MS ( 0.25 mm) | Det: MS SCAN |
| Process Host: | XAWRK009 | |

First Level Reviewer: webbk Date: 17-Oct-2014 08:52:47

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.802 | 2.803 | -0.001 | 98 | 147816 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.493 | 4.487 | 0.006 | 90 | 83445 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.065 | 6.054 | 0.011 | 97 | 135223 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 8.932 | 8.927 | 0.005 | 99 | 108785 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.285 | 10.269 | 0.016 | 98 | 98353 | 2.00 | |
| $ 6 o-Terphenyl | 230 | 6.546 | 6.541 | 0.005 | 90 | 74881 | 2.15 | |
| 7 Naphthalene | 128 | 2.818 | 2.819 | -0.001 | 73 | 9827 | 0.1219 | |
| 8 2-Methylnaphthalene | 142 | 3.460 | 3.455 | 0.005 | 75 | 6604 | 0.1235 | |
| 9 1-Methylnaphthalene | 142 | 3.551 | 3.546 | 0.005 | 32 | 4991 | 0.1007 | |
| 15 Phenanthrene | 178 | 6.086 | 6.081 | 0.005 | 87 | 16224 | 0.2005 | |
| 16 Anthracene | 178 | 6.140 | 6.135 | 0.005 | 73 | 3716 | 0.0462 | |
| 17 Fluoranthene | 202 | 7.381 | 7.376 | 0.005 | 96 | 13032 | 0.1519 | |
| 18 Pyrene | 202 | 7.616 | 7.606 | 0.010 | 91 | 11451 | 0.1607 | |
| 19 Benzo[a]anthracene | 228 | 8.927 | 8.916 | 0.011 | 48 | 10047 | 0.1579 | |
| 20 Chrysene | 228 | 8.959 | 8.953 | 0.006 | 76 | 12333 | 0.2030 | |
| 21 Benzo[b]fluoranthene | 252 | 9.959 | 9.948 | 0.011 | 73 | 15146 | 0.2341 | |
| 22 Benzo[k]fluoranthene | 252 | 9.980 | 9.975 | 0.005 | 90 | 5155 | 0.0820 | M |
| 23 Benzo[a]pyrene | 252 | 10.232 | 10.221 | 0.011 | 91 | 6693 | 0.1258 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.125 | 11.109 | 0.016 | 86 | 6822 | 0.1142 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.152 | 11.136 | 0.016 | 71 | 4298 | 0.0925 | |
| 26 Benzo[g,h,i]perylene | 276 | 11.344 | 11.323 | 0.021 | 78 | 7308 | 0.1507 | |

## QC Flag Legend

Review Flags

M - Manually Integrated

## Reagents:

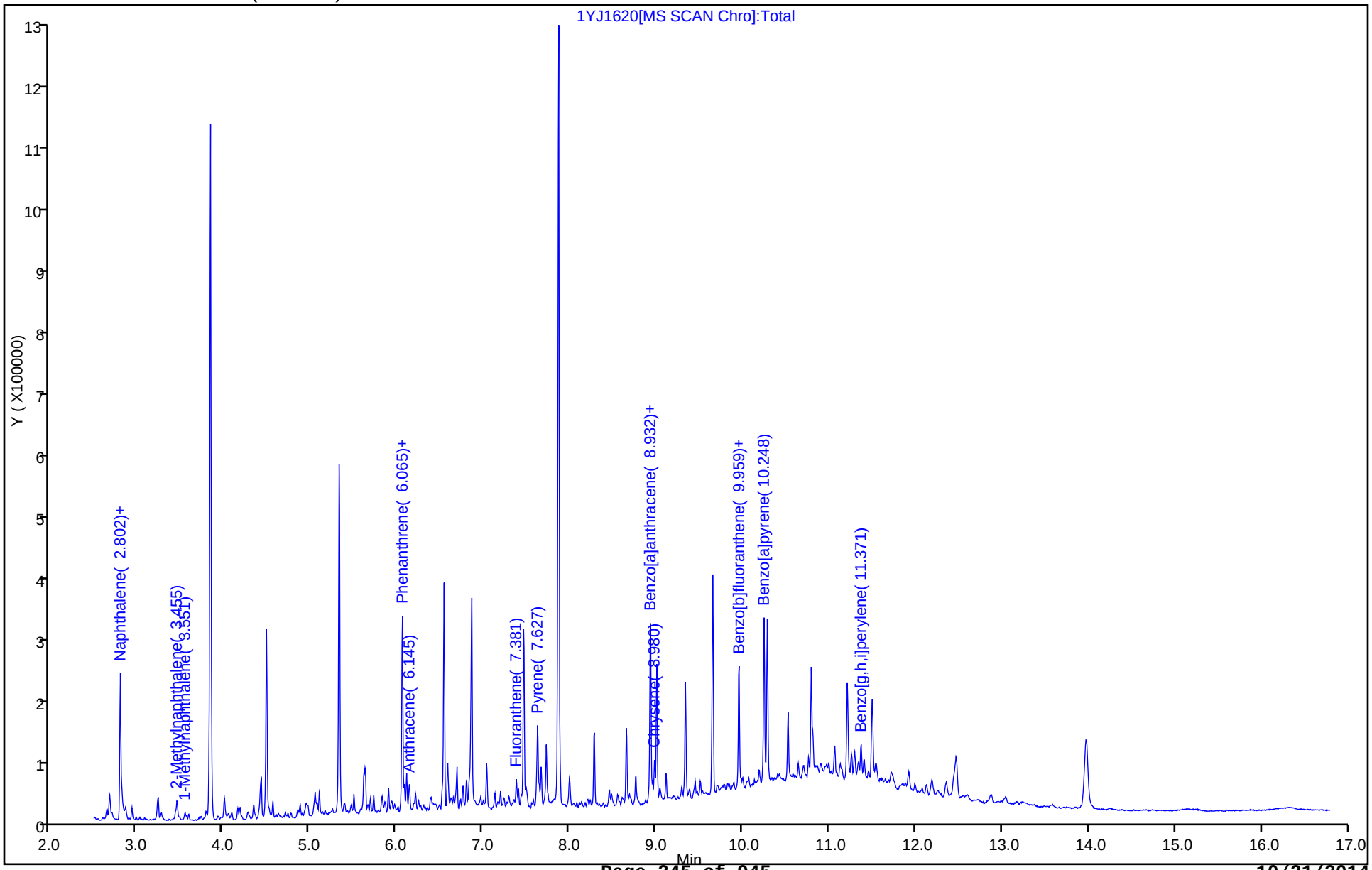
SM-LLISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 17-Oct-2014 08:59:11 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1620.D | | | | |
| Injection Date: | 16-Oct-2014 18:51:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | 680-106200-A-30-A | Lab Sample ID: | 680-106200-30 | Worklist Smp#: | 20 |
| Client ID: | CV0748WW-CS24 | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | ALS Bottle#: | 19 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)

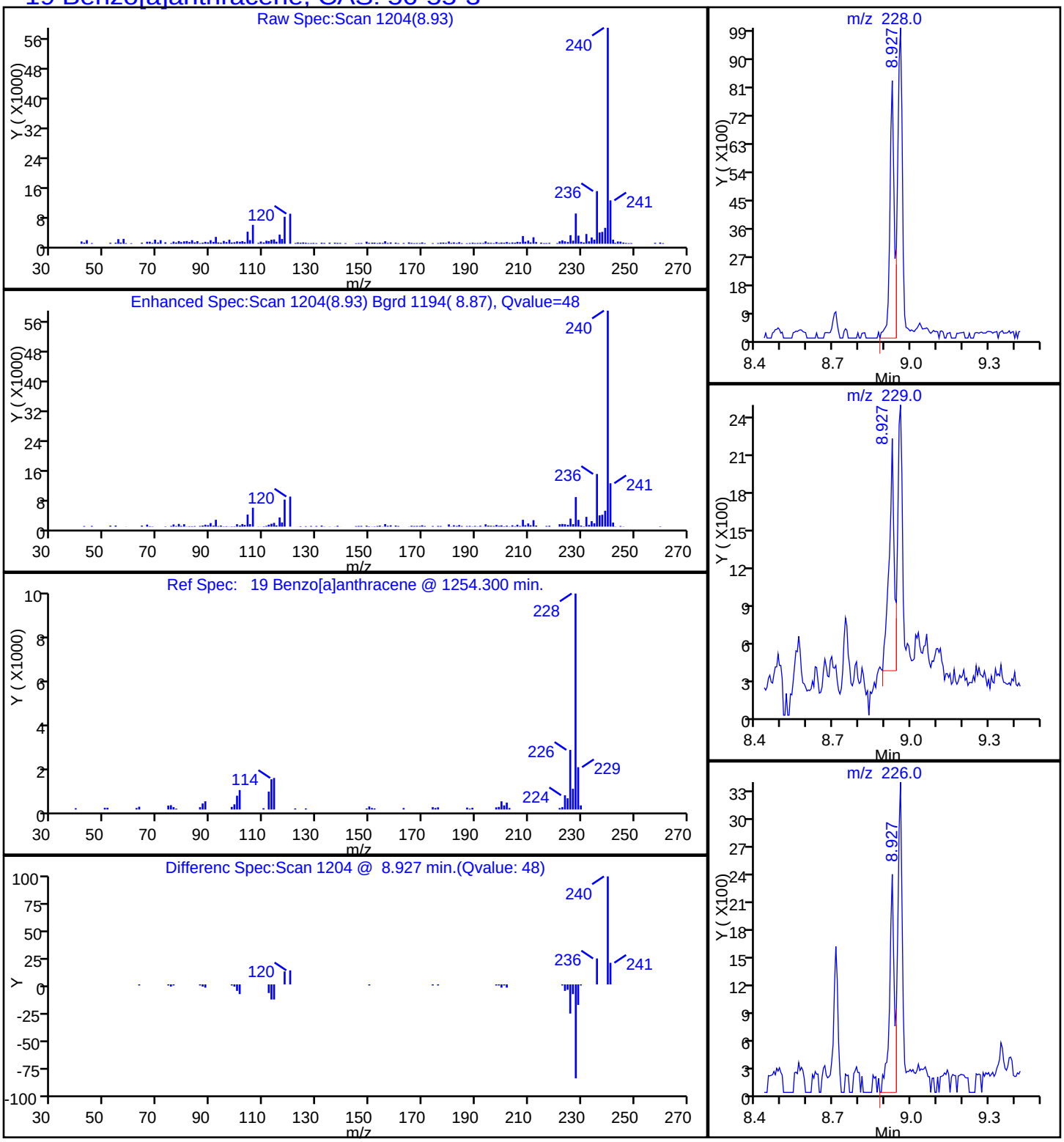


Report Date: 17-Oct-2014 08:59:11 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1620.D | | | | |
| Injection Date: | 16-Oct-2014 18:51:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-30-A | Lab Sample ID: | 680-106200-30 | | |
| Client ID: | CV0748WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 19 | Worklist Smp#: | 20 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

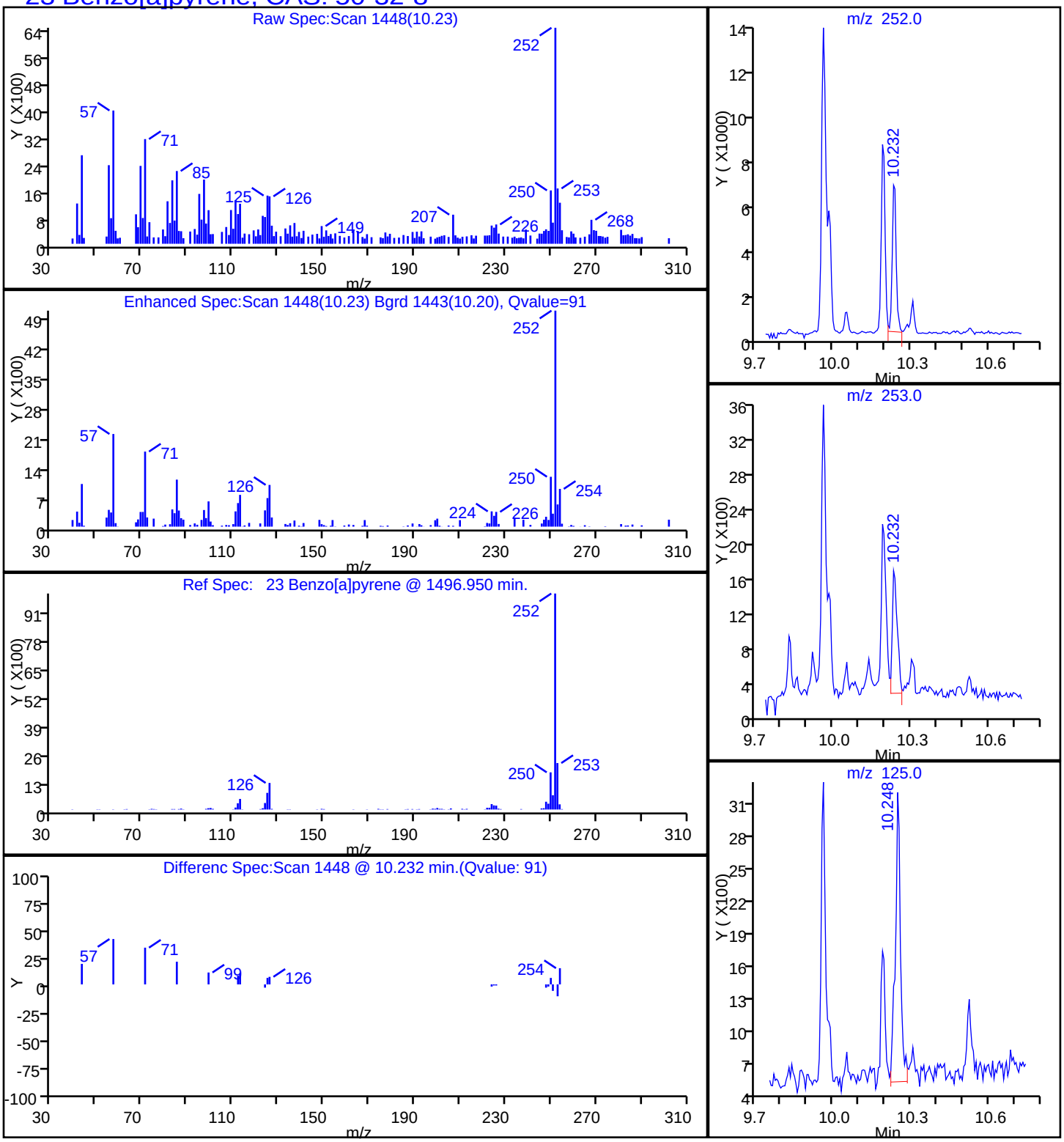


Report Date: 17-Oct-2014 08:59:11 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1620.D | | | | |
| Injection Date: | 16-Oct-2014 18:51:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-30-A | Lab Sample ID: | 680-106200-30 | | |
| Client ID: | CV0748WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 19 | Worklist Smp#: | 20 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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



Report Date: 17-Oct-2014 08:59:11 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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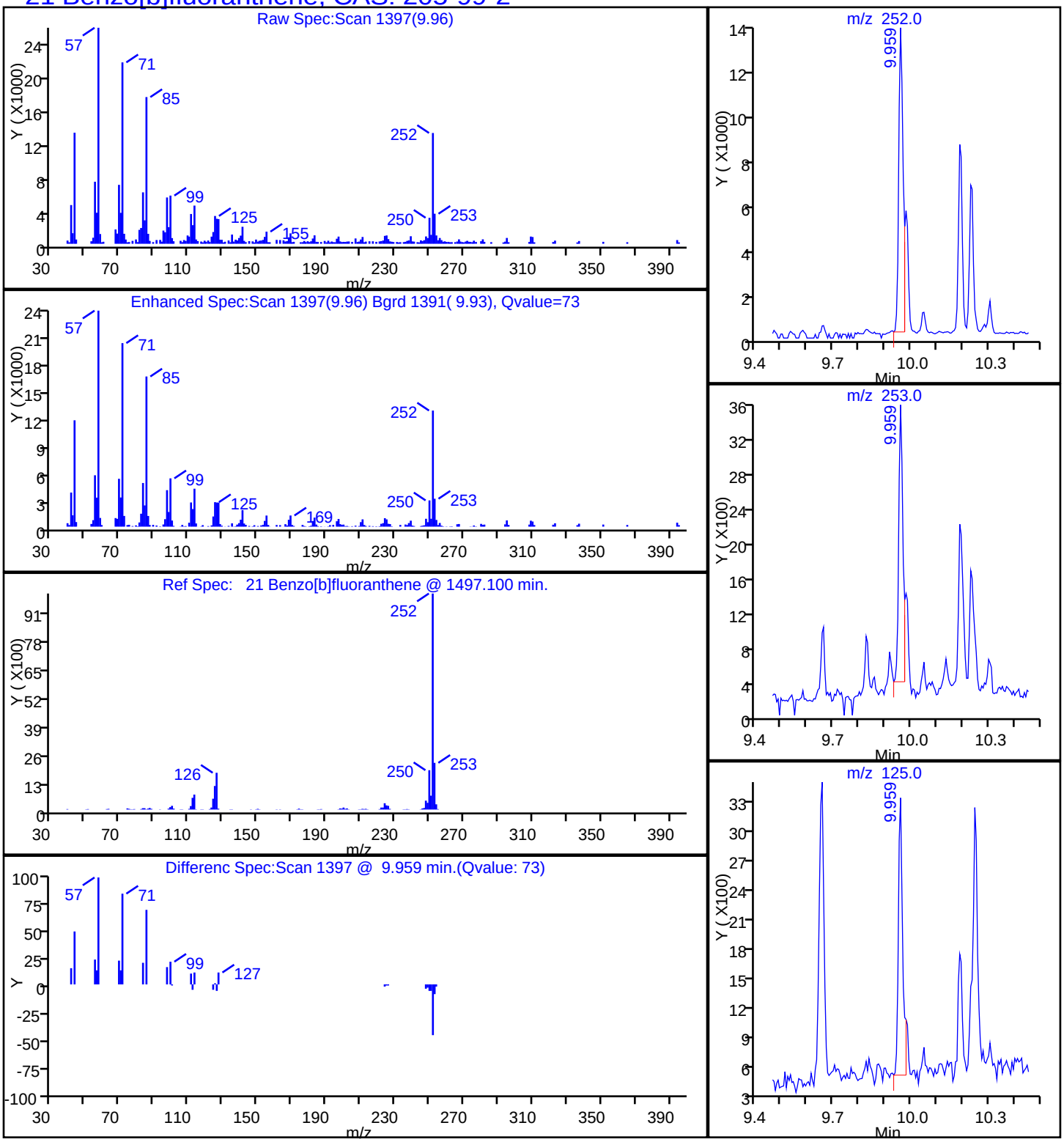
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1620.D | | | | |
| Injection Date: | 16-Oct-2014 18:51:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-30-A | Lab Sample ID: | 680-106200-30 | | |
| Client ID: | CV0748WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 19 | Worklist Smp#: | 20 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

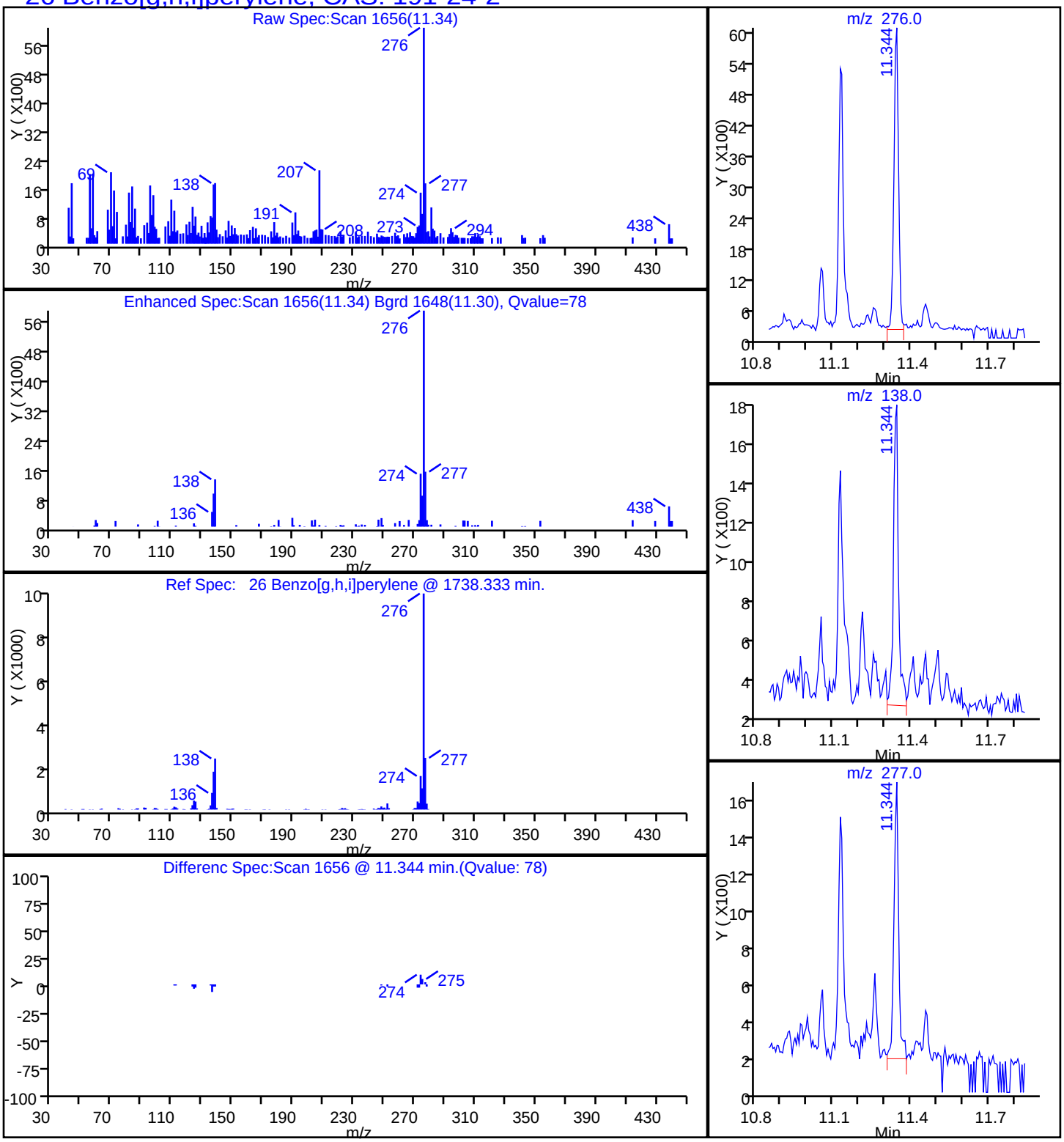


Report Date: 17-Oct-2014 08:59:11 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1620.D | | | | |
| Injection Date: | 16-Oct-2014 18:51:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-30-A | Lab Sample ID: | 680-106200-30 | | |
| Client ID: | CV0748WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 19 | Worklist Smp#: | 20 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

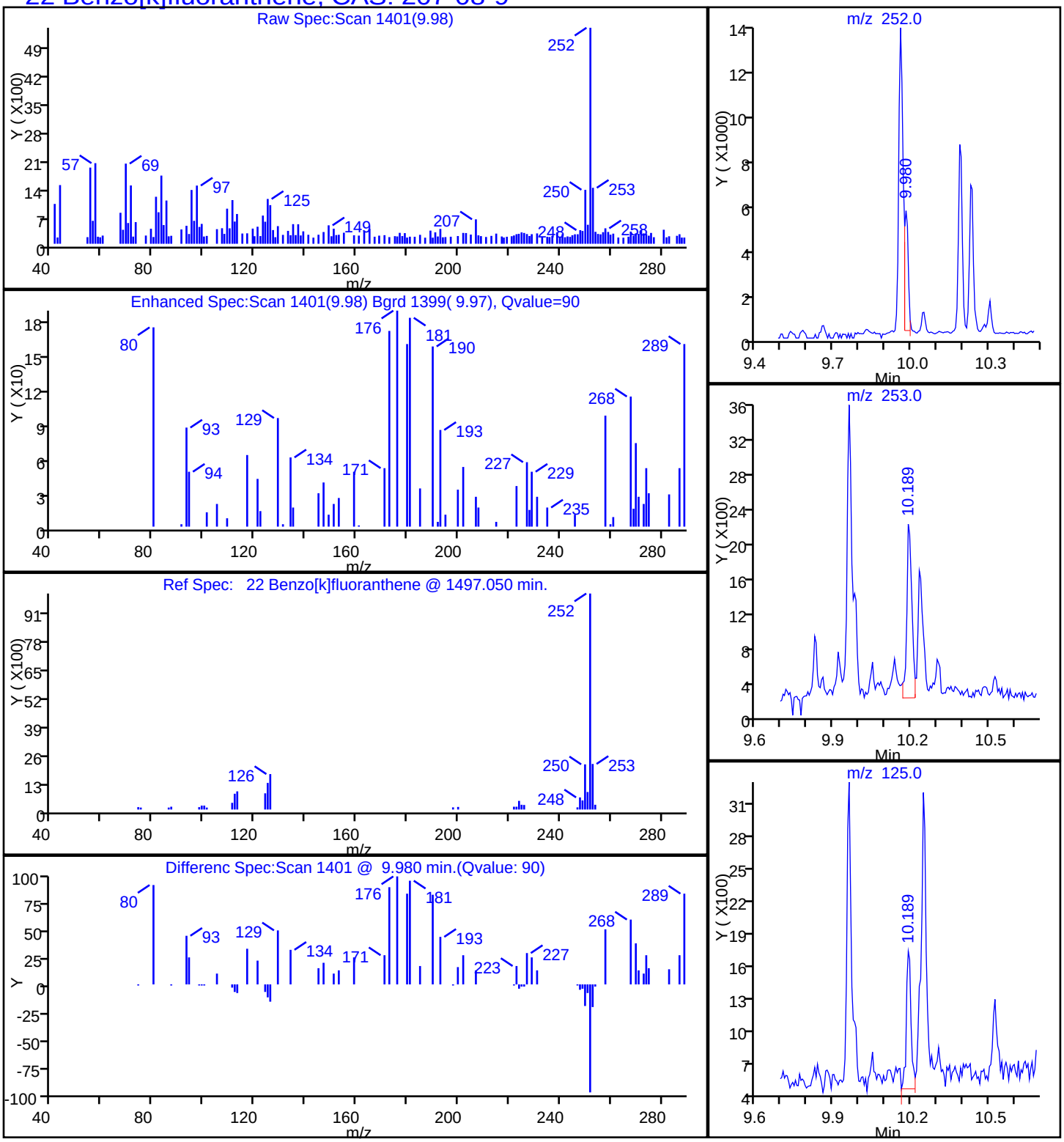


Report Date: 17-Oct-2014 08:59:11 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1620.D | | | | |
| Injection Date: | 16-Oct-2014 18:51:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-30-A | Lab Sample ID: | 680-106200-30 | | |
| Client ID: | CV0748WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 19 | Worklist Smp#: | 20 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

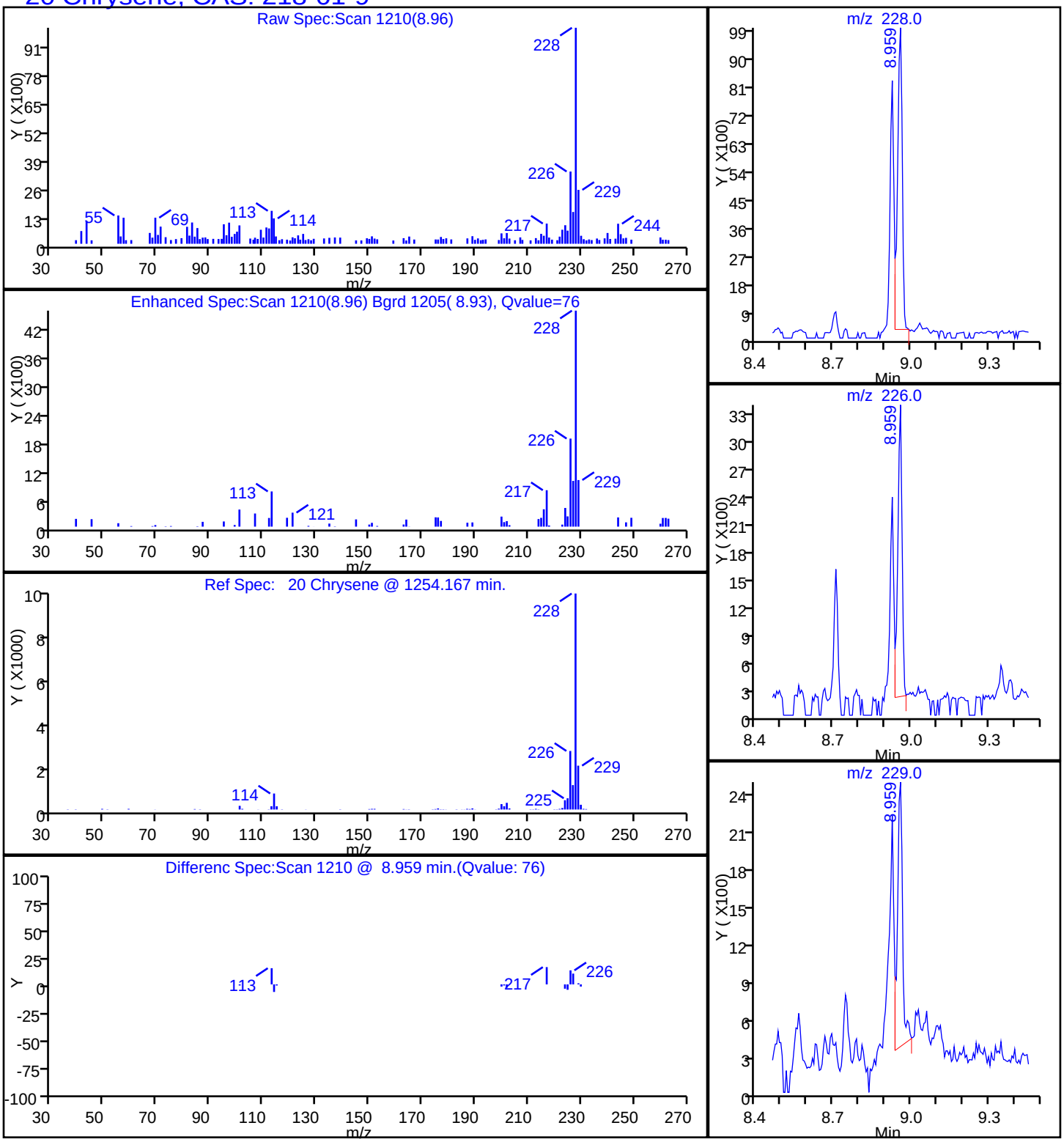


Report Date: 17-Oct-2014 08:59:11 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1620.D | | | | |
| Injection Date: | 16-Oct-2014 18:51:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-30-A | Lab Sample ID: | 680-106200-30 | | |
| Client ID: | CV0748WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 19 | Worklist Smp#: | 20 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 20 Chrysene, CAS: 218-01-9



Report Date: 17-Oct-2014 08:59:11 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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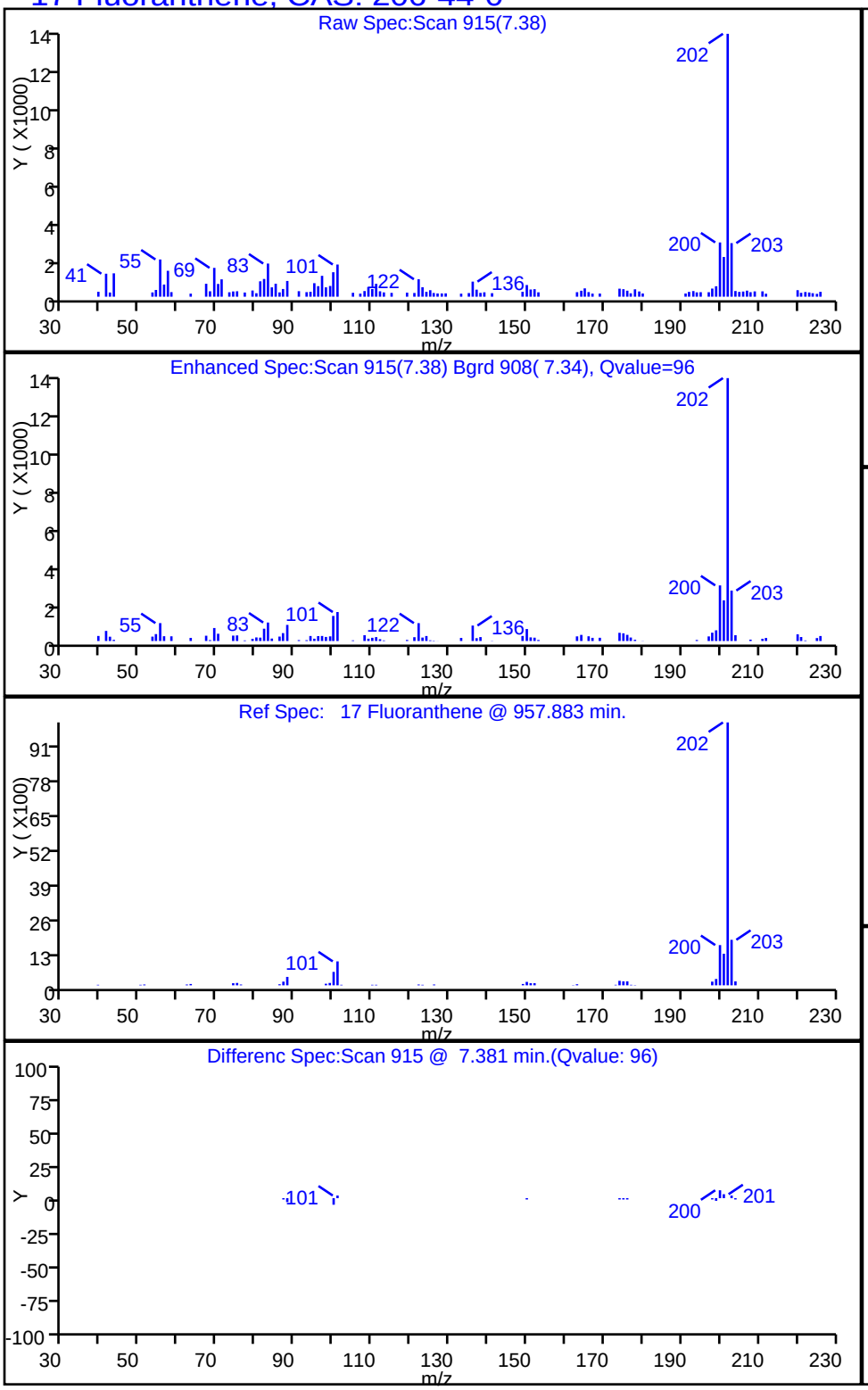
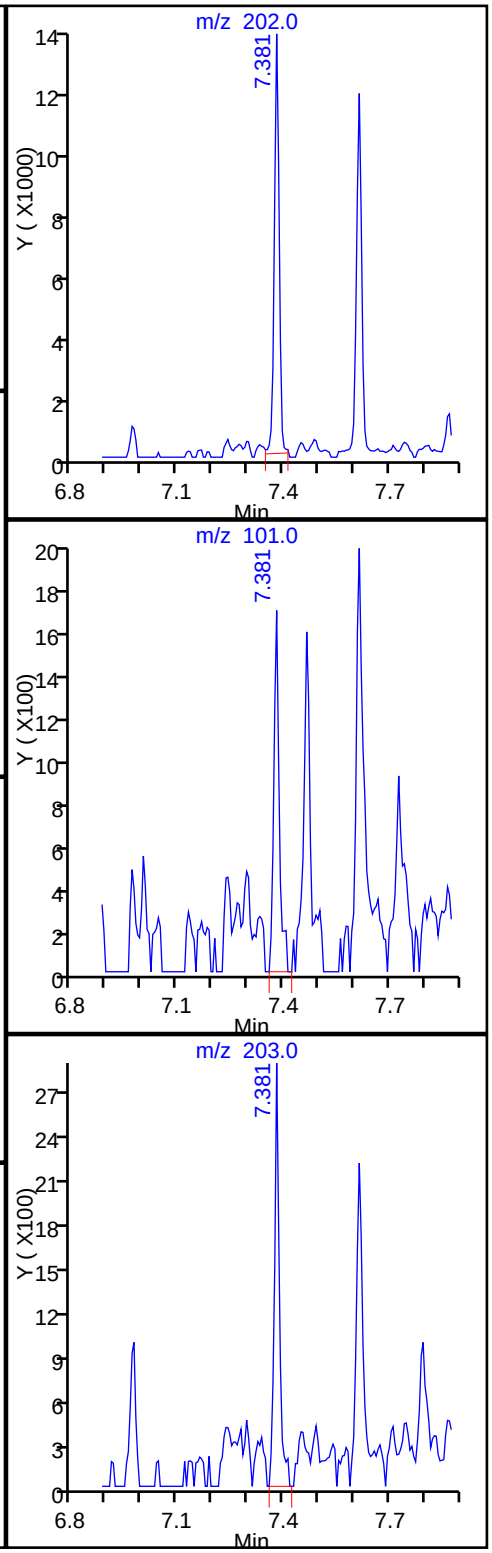
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1620.D | | | | |
| Injection Date: | 16-Oct-2014 18:51:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-30-A | Lab Sample ID: | 680-106200-30 | | |
| Client ID: | CV0748WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 19 | Worklist Smp#: | 20 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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



Report Date: 17-Oct-2014 08:59:11 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

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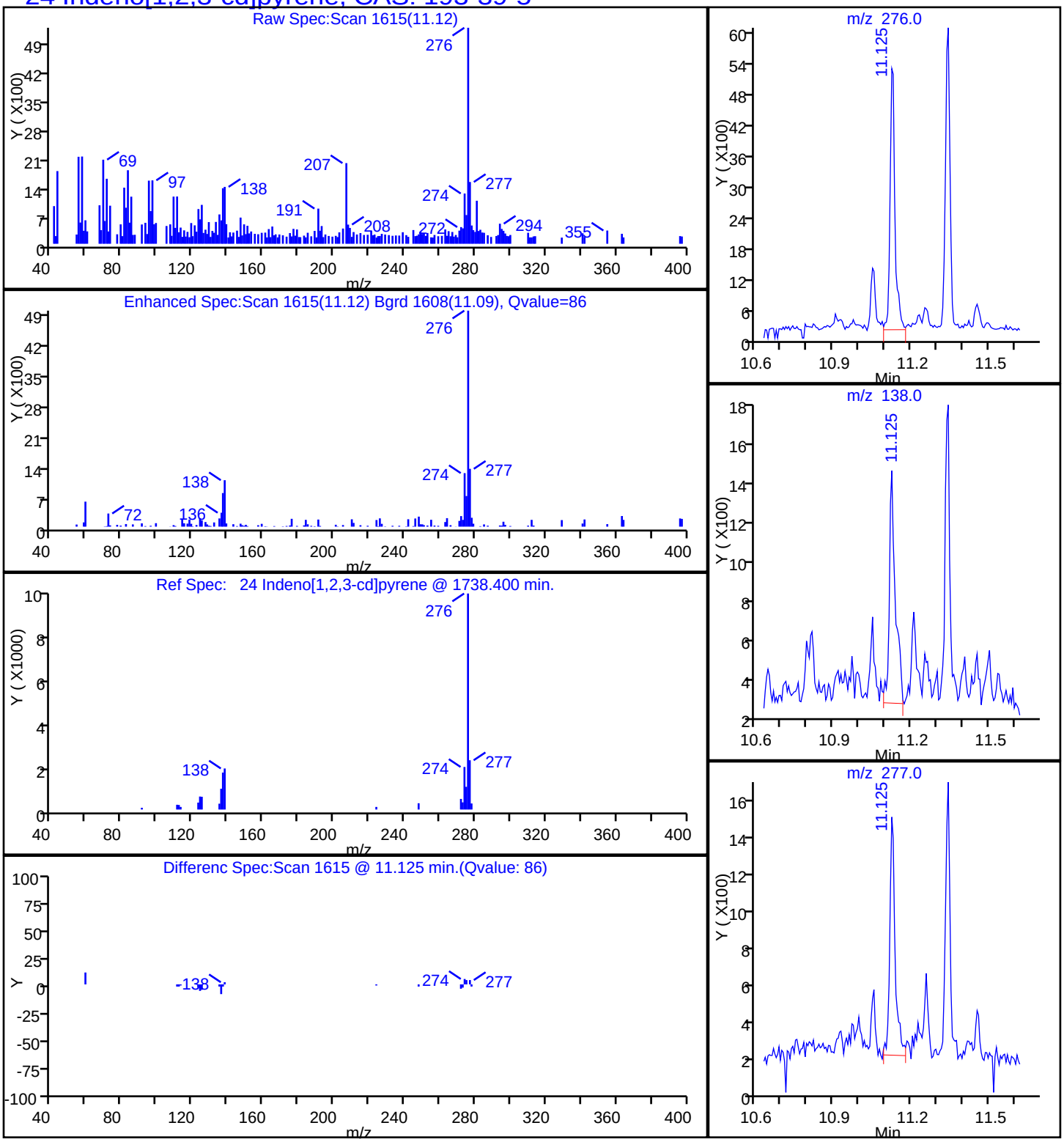
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1620.D | | | | |
| Injection Date: | 16-Oct-2014 18:51:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-30-A | Lab Sample ID: | 680-106200-30 | | |
| Client ID: | CV0748WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 19 | Worklist Smp#: | 20 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

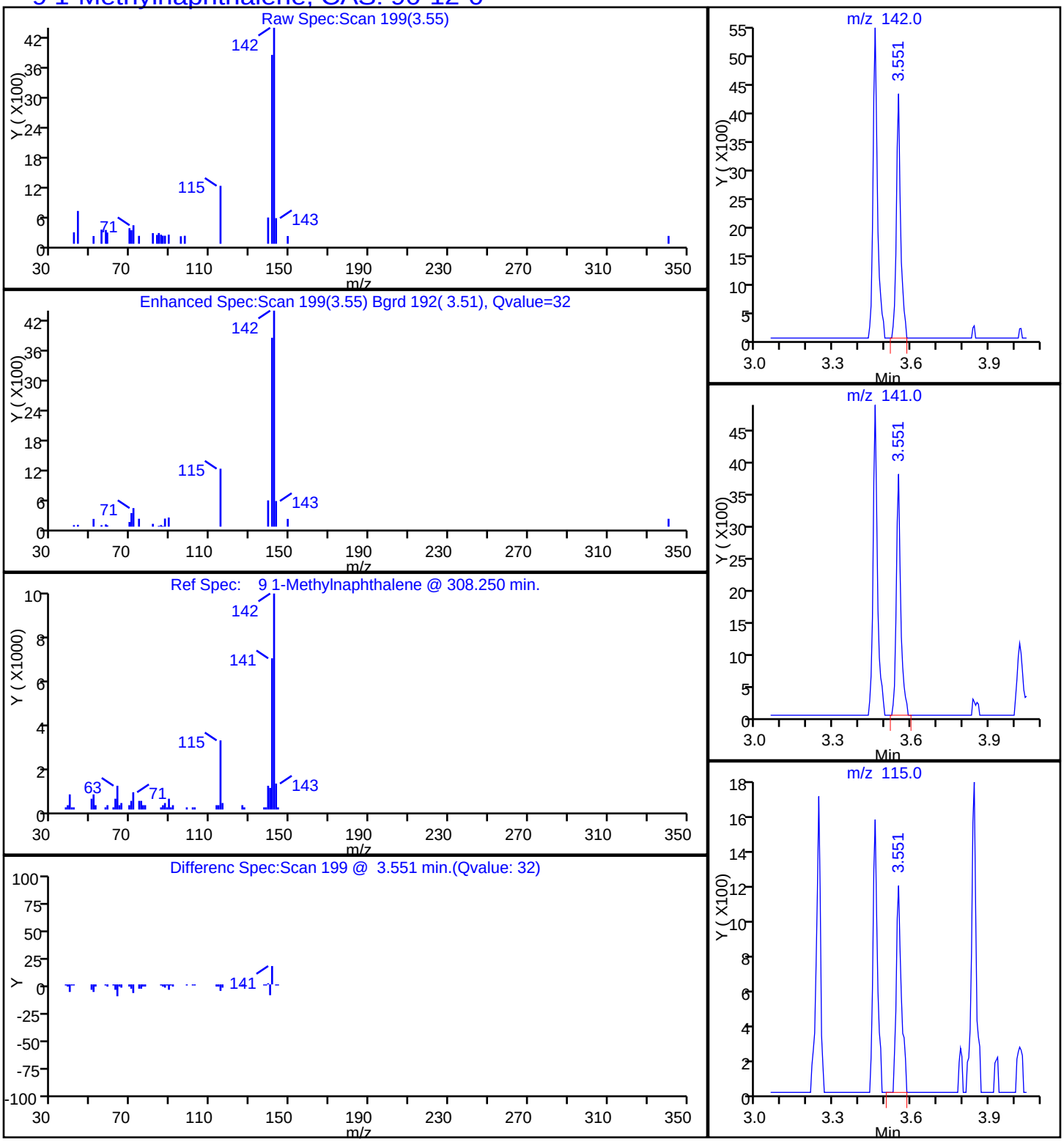


Report Date: 17-Oct-2014 08:59:11 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1620.D | | | | |
| Injection Date: | 16-Oct-2014 18:51:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-30-A | Lab Sample ID: | 680-106200-30 | | |
| Client ID: | CV0748WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 19 | Worklist Smp#: | 20 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 9 1-Methylnaphthalene, CAS: 90-12-0

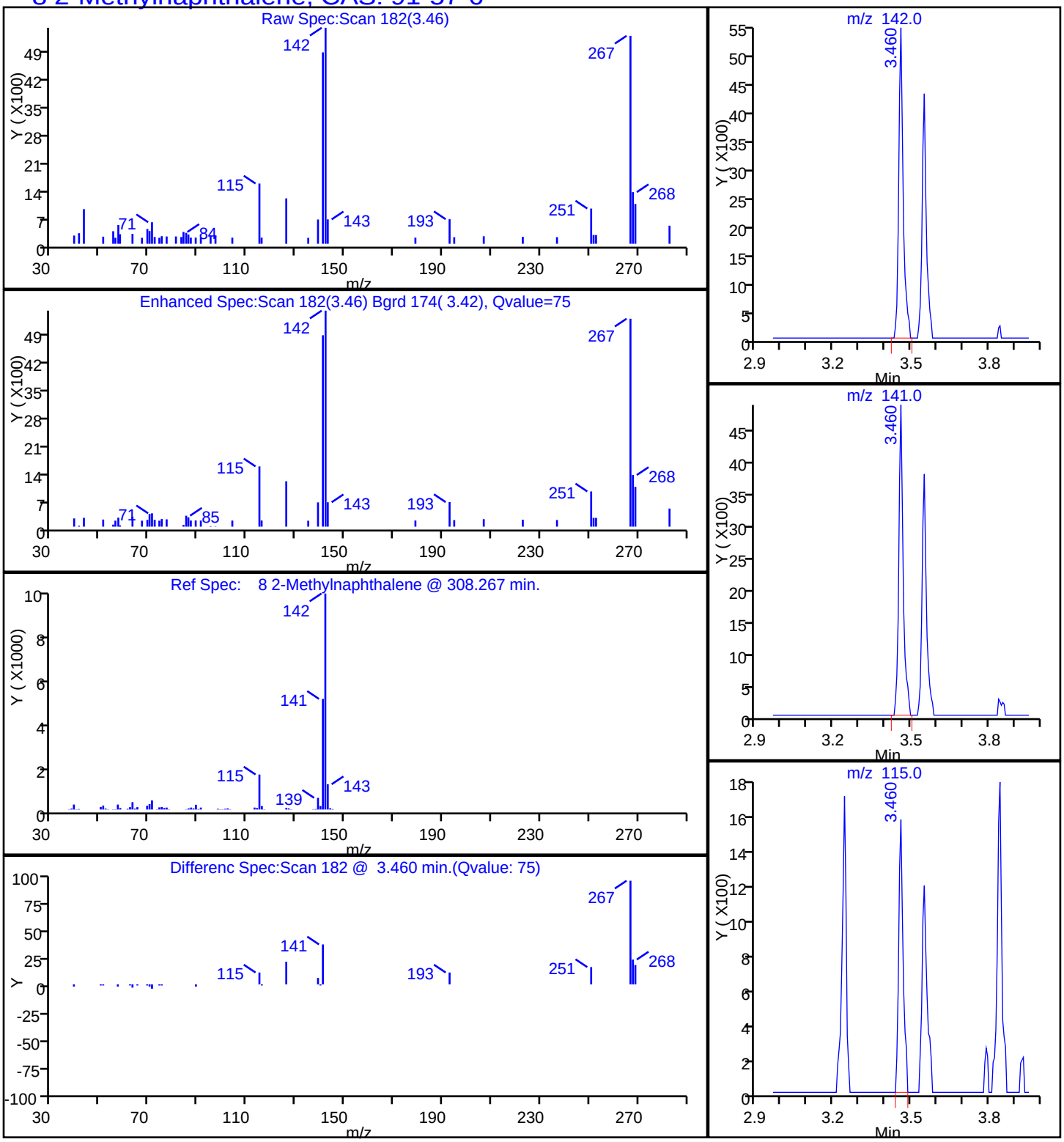


Report Date: 17-Oct-2014 08:59:11 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1620.D | | | | |
| Injection Date: | 16-Oct-2014 18:51:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-30-A | Lab Sample ID: | 680-106200-30 | | |
| Client ID: | CV0748WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 19 | Worklist Smp#: | 20 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 8 2-Methylnaphthalene, CAS: 91-57-6

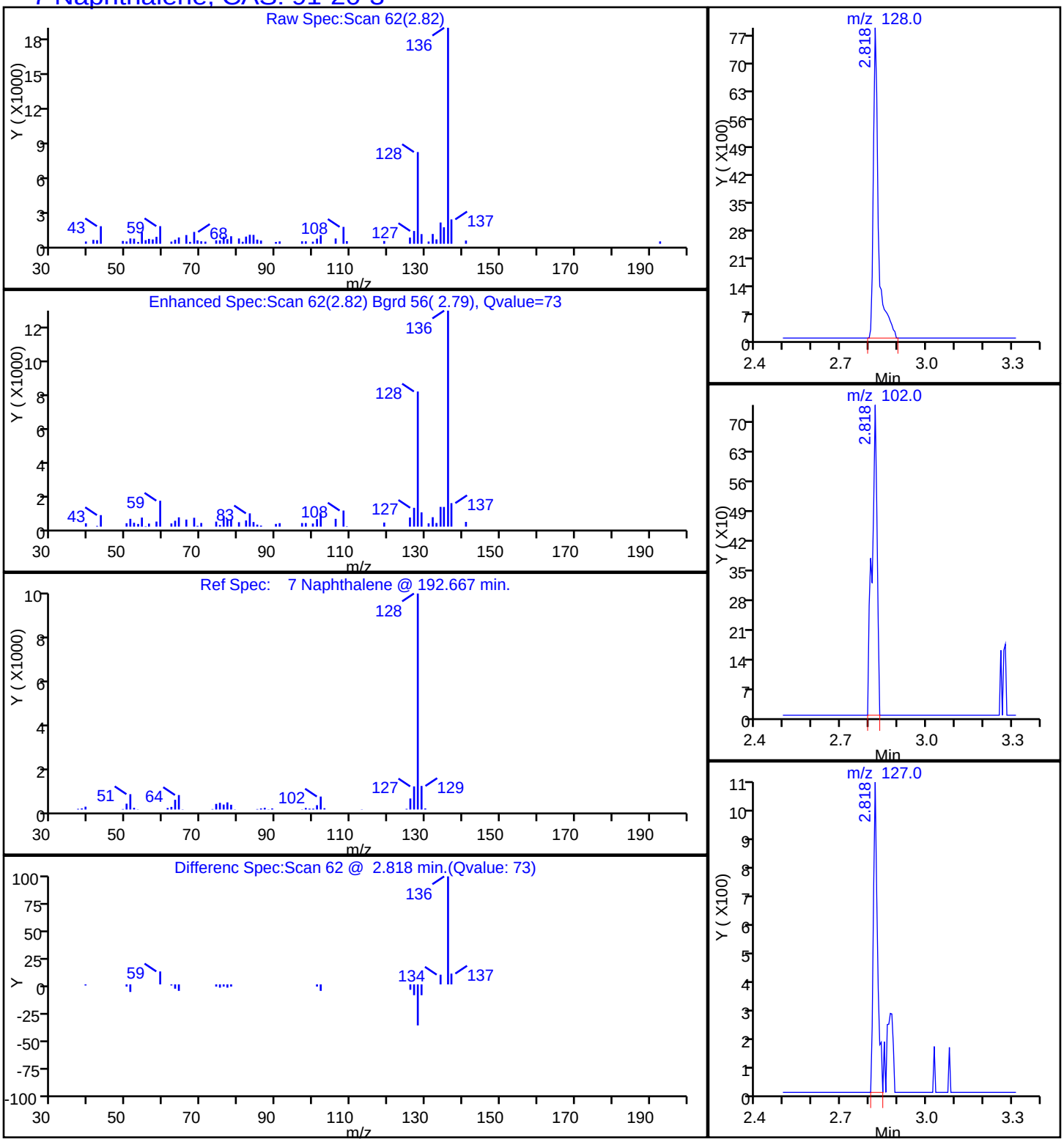


Report Date: 17-Oct-2014 08:59:11 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1620.D | | | | |
| Injection Date: | 16-Oct-2014 18:51:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-30-A | Lab Sample ID: | 680-106200-30 | | |
| Client ID: | CV0748WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 19 | Worklist Smp#: | 20 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 7 Naphthalene, CAS: 91-20-3

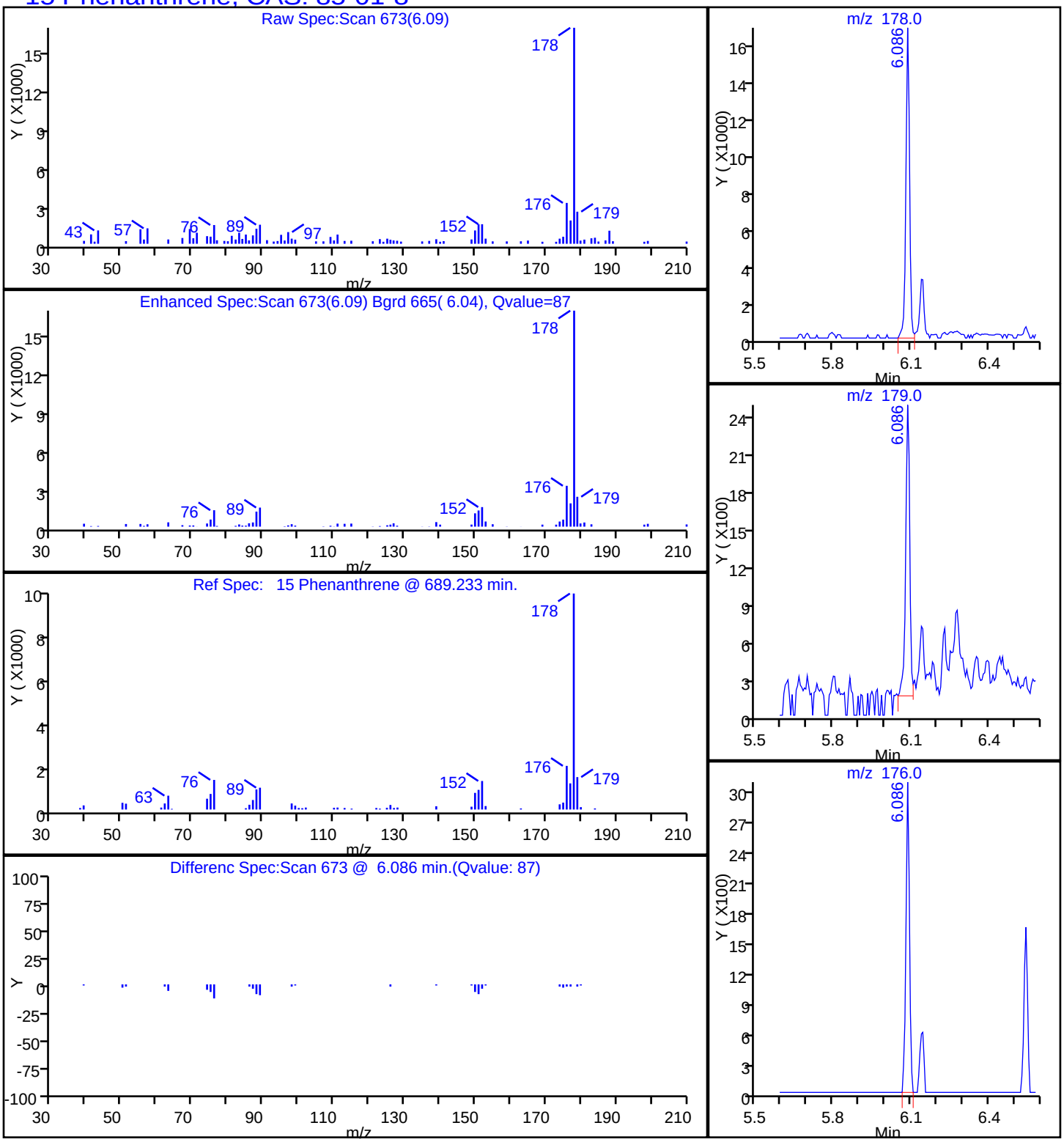


Report Date: 17-Oct-2014 08:59:11 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1620.D | | | | |
| Injection Date: | 16-Oct-2014 18:51:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-30-A | Lab Sample ID: | 680-106200-30 | | |
| Client ID: | CV0748WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 19 | Worklist Smp#: | 20 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 15 Phenanthrene, CAS: 85-01-8

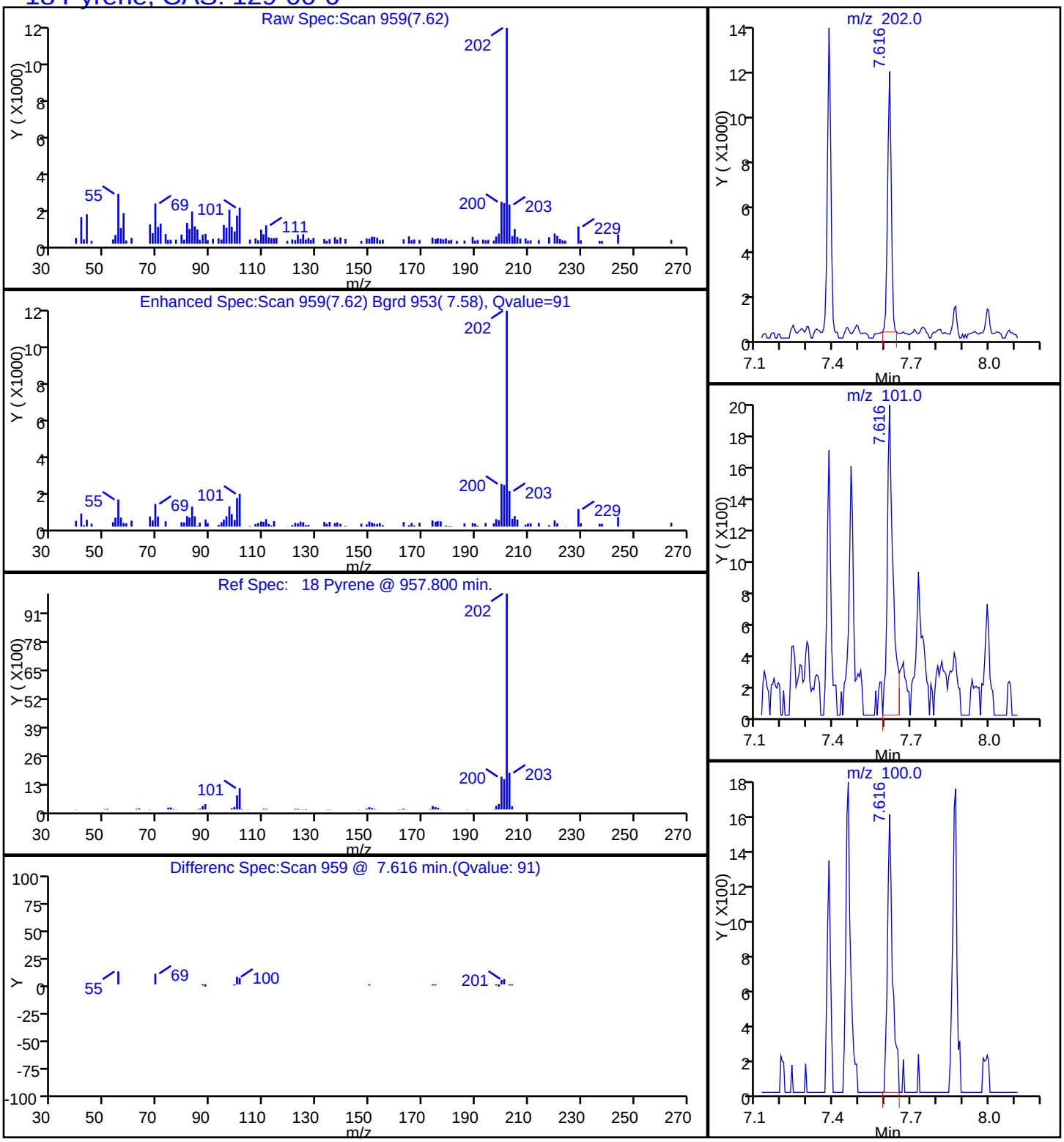


Report Date: 17-Oct-2014 08:59:11 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1620.D | | | | |
| Injection Date: | 16-Oct-2014 18:51:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-30-A | Lab Sample ID: | 680-106200-30 | | |
| Client ID: | CV0748WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 19 | Worklist Smp#: | 20 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

## 18 Pyrene, CAS: 129-00-0



Manual Integration/User Assign Peak Report

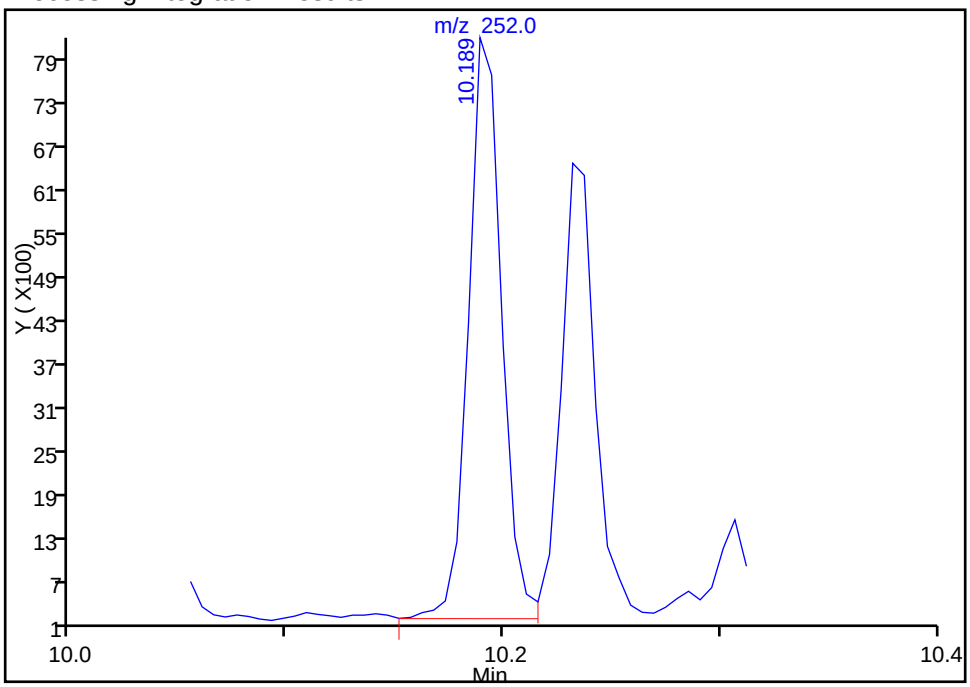
TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1620.D | | | | |
| Injection Date: | 16-Oct-2014 18:51:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-30-A | Lab Sample ID: | 680-106200-30 | | |
| Client ID: | CV0748WW-CS24 | | | | |
| Operator ID: | RM | ALS Bottle#: | 19 | Worklist Smp#: | 20 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

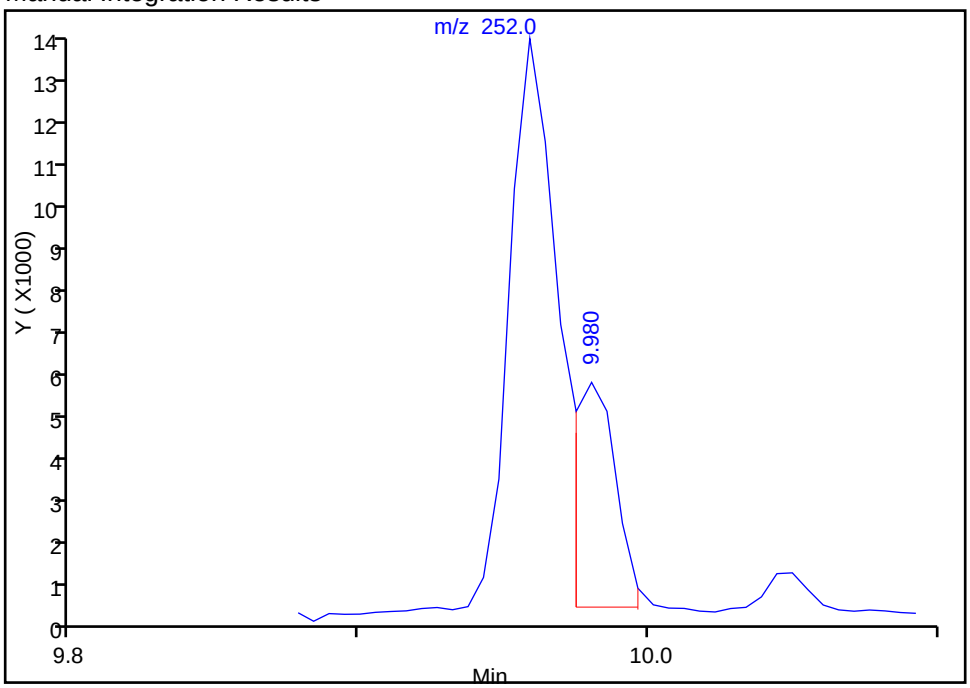
Processing Integration Results

RT: 10.19
Response: 8437
Amount: 0.134204




Manual Integration Results

RT: 9.98
Response: 5155
Amount: 0.081980




Reviewer: webbk, 17-Oct-2014 08:52:47
Audit Action: Manually Integrated
Audit Reason: Split Peak

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

Lab Name: TestAmerica Savannah Job No.: 680-106200-2 Analy Batch No.: 352391

SDG No.: 680-106200-02

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

Calibration Start Date: 10/07/2014 13:49 Calibration End Date: 10/07/2014 16:03 Calibration ID: 34899

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 680-352391/8 | 3YJ0708.D |
| Level 2 | IC 680-352391/3 | 3YJ0703.D |
| Level 3 | IC 680-352391/7 | 3YJ0707.D |
| Level 4 | IC 680-352391/6 | 3YJ0706.D |
| Level 5 | ICIS 680-352391/2 | 3YJ0702.D |
| Level 6 | IC 680-352391/5 | 3YJ0705.D |
| Level 7 | IC 680-352391/4 | 3YJ0704.D |

| 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 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Naphthalene | +++++<br>1.1363 | 1.0270<br>1.0818 | 1.1153 | 1.0943 | 1.0909 | Ave | | 1.0909 | | | 0.7000 | 3.4 | | 20.0 | | | |
| 2-Methylnaphthalene | +++++<br>0.7779 | 0.6612<br>0.7246 | 0.7342 | 0.7198 | 0.7226 | Ave | | 0.7234 | | | 0.4000 | 5.2 | | 20.0 | | | |
| 1-Methylnaphthalene | +++++<br>0.7001 | 0.6231<br>0.6753 | 0.6746 | 0.6716 | 0.6801 | Ave | | 0.6708 | | | | 3.8 | | 20.0 | | | |
| Acenaphthylene | +++++<br>2.0446 | 1.8059<br>1.9930 | 1.9378 | 1.9015 | 1.9457 | Ave | | 1.9381 | | | 0.9000 | 4.2 | | 20.0 | | | |
| Acenaphthene | +++++<br>1.3072 | 1.2117<br>1.2456 | 1.2607 | 1.2386 | 1.2069 | Ave | | 1.2451 | | | 0.9000 | 2.9 | | 20.0 | | | |
| Fluorene | +++++<br>1.4689 | 1.2612<br>1.4030 | 1.3910 | 1.3602 | 1.3633 | Ave | | 1.3746 | | | 0.9000 | 5.0 | | 20.0 | | | |
| Phenanthrene | +++++<br>1.2626 | 1.1548<br>1.1798 | 1.2136 | 1.2211 | 1.1495 | Ave | | 1.1969 | | | 0.7000 | 3.6 | | 20.0 | | | |
| Anthracene | +++++<br>1.2918 | 1.1073<br>1.2093 | 1.2065 | 1.1828 | 1.1447 | Ave | | 1.1904 | | | 0.7000 | 5.3 | | 20.0 | | | |
| Fluoranthene | +++++<br>1.3888 | 1.1749<br>1.2570 | 1.2939 | 1.2790 | 1.2179 | Ave | | 1.2686 | | | 0.6000 | 5.8 | | 20.0 | | | |
| Pyrene | +++++<br>1.3119 | 1.5113<br>1.2812 | 1.5149 | 1.4425 | 1.2514 | QuaF | | 1.3099 | -0.001378 | | | | | | 1.0000 | | 0.9900 |
| Benzo[a]anthracene | +++++<br>1.2224 | 1.1733<br>1.1614 | 1.1982 | 1.1696 | 1.0932 | Ave | | 1.1697 | | | 0.7000 | 3.7 | | 20.0 | | | |
| Chrysene | +++++<br>1.0714 | 1.0918<br>0.9797 | 1.1703 | 1.1117 | 1.0256 | QuaF | | 1.1181 | -0.006828 | | | | | | 1.0000 | | 0.9900 |
| Benzo[b]fluoranthene | +++++<br>1.3572 | 1.3152<br>1.2777 | 1.3389 | 1.3118 | 1.2917 | Ave | | 1.3154 | | | 0.4000 | 2.2 | | 20.0 | | | |
| Benzo[k]fluoranthene | +++++<br>1.2624 | 1.2919<br>1.1675 | 1.3118 | 1.3264 | 1.1488 | QuaF | | 1.2791 | -0.005426 | | | | | | 0.9990 | | 0.9900 |

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

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

Lab Name: TestAmerica Savannah Job No.: 680-106200-2 Analy Batch No.: 352391

SDG No.: 680-106200-02

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

Calibration Start Date: 10/07/2014 13:49 Calibration End Date: 10/07/2014 16:03 Calibration ID: 34899

| 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 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| Benzo[a]pyrene | +++++<br>1.1532 | 1.1206<br>1.0585 | 1.0966 | 1.0477 | 1.0150 | Ave | | 1.0819 | | | 0.4000 | 4.7 | | 20.0 | | | |
| Indeno[1,2,3-cd]pyrene | +++++<br>1.1580 | 0.9361<br>1.0944 | 0.8456 | 0.8686 | 0.9555 | QuaF | | 1.0980 | 0.0000789 | | | | | | 0.9970 | | 0.9900 |
| Dibenz(a,h)anthracene | +++++<br>1.0021 | 0.8344<br>0.9696 | 0.7806 | 0.7884 | 0.8481 | QuaF | | 0.9451 | 0.0014067 | | | | | | 0.9980 | | 0.9900 |
| Benzo[g,h,i]perylene | +++++<br>1.0399 | 0.9594<br>1.0106 | 0.9208 | 0.9202 | 0.8901 | QuaF | | 0.9856 | 0.0014215 | | | | | | 0.9990 | | 0.9900 |
| o-Terphenyl | +++++<br>0.6535 | 0.8305<br>0.6754 | 0.7708 | 0.7416 | 0.6477 | QuaF | | 0.6376 | 0.0018738 | | | | | | 1.0000 | | 0.9900 |

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

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

Lab Name: TestAmerica Savannah Job No.: 680-106200-2 Analy Batch No.: 352391

SDG No.: 680-106200-02

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

Calibration Start Date: 10/07/2014 13:49 Calibration End Date: 10/07/2014 16:03 Calibration ID: 34899

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---|---|---|
| Level 1 | IC 680-352391/8 | 3YJ0708.D |
| Level 2 | IC 680-352391/3 | 3YJ0703.D |
| Level 3 | IC 680-352391/7 | 3YJ0707.D |
| Level 4 | IC 680-352391/6 | 3YJ0706.D |
| Level 5 | ICIS 680-352391/2 | 3YJ0702.D |
| Level 6 | IC 680-352391/5 | 3YJ0705.D |
| Level 7 | IC 680-352391/4 | 3YJ0704.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/ML) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Naphthalene | NPT | Ave | +++++<br>964452 | 8751<br>1773946 | 48936 | 90133 | 459963 | +++++<br>10.0 | 0.100<br>20.0 | 0.500 | 1.00 | 5.00 |
| 2-Methylnaphthalene | NPT | Ave | +++++<br>660260 | 5634<br>1188296 | 32217 | 59286 | 304670 | +++++<br>10.0 | 0.100<br>20.0 | 0.500 | 1.00 | 5.00 |
| 1-Methylnaphthalene | NPT | Ave | +++++<br>594286 | 5309<br>1107422 | 29600 | 55320 | 286758 | +++++<br>10.0 | 0.100<br>20.0 | 0.500 | 1.00 | 5.00 |
| Acenaphthylene | ANT | Ave | +++++<br>984374 | 8567<br>1872059 | 48345 | 88431 | 468419 | +++++<br>10.0 | 0.100<br>20.0 | 0.500 | 1.00 | 5.00 |
| Acenaphthene | ANT | Ave | +++++<br>629354 | 5748<br>1170070 | 31454 | 57601 | 290570 | +++++<br>10.0 | 0.100<br>20.0 | 0.500 | 1.00 | 5.00 |
| Fluorene | ANT | Ave | +++++<br>707217 | 5983<br>1317917 | 34703 | 63258 | 328207 | +++++<br>10.0 | 0.100<br>20.0 | 0.500 | 1.00 | 5.00 |
| Phenanthrene | PHN | Ave | +++++<br>1000362 | 8796<br>1808843 | 49964 | 91172 | 455557 | +++++<br>10.0 | 0.100<br>20.0 | 0.500 | 1.00 | 5.00 |
| Anthracene | PHN | Ave | +++++<br>1023441 | 8434<br>1854025 | 49674 | 88310 | 453638 | +++++<br>10.0 | 0.100<br>20.0 | 0.500 | 1.00 | 5.00 |
| Fluoranthene | PHN | Ave | +++++<br>1100311 | 8949<br>1927157 | 53273 | 95493 | 482649 | +++++<br>10.0 | 0.100<br>20.0 | 0.500 | 1.00 | 5.00 |
| Pyrene | CRY | QuaF | +++++<br>1137446 | 9619<br>2023259 | 56170 | 100594 | 508195 | +++++<br>10.0 | 0.100<br>20.0 | 0.500 | 1.00 | 5.00 |
| Benzo[a]anthracene | CRY | Ave | +++++<br>1059805 | 7468<br>1834130 | 44427 | 81565 | 443973 | +++++<br>10.0 | 0.100<br>20.0 | 0.500 | 1.00 | 5.00 |
| Chrysene | CRY | QuaF | +++++<br>928920 | 6949<br>1547225 | 43392 | 77530 | 416500 | +++++<br>10.0 | 0.100<br>20.0 | 0.500 | 1.00 | 5.00 |
| Benzo[b]fluoranthene | PRY | Ave | +++++<br>1119453 | 7555<br>1888196 | 42808 | 77999 | 471572 | +++++<br>10.0 | 0.100<br>20.0 | 0.500 | 1.00 | 5.00 |
| Benzo[k]fluoranthene | PRY | QuaF | +++++<br>1041281 | 7421<br>1725338 | 41943 | 78870 | 419405 | +++++<br>10.0 | 0.100<br>20.0 | 0.500 | 1.00 | 5.00 |
| Benzo[a]pyrene | PRY | Ave | +++++<br>951241 | 6437<br>1564180 | 35063 | 62294 | 370555 | +++++<br>10.0 | 0.100<br>20.0 | 0.500 | 1.00 | 5.00 |

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

Lab Name: TestAmerica Savannah Job No.: 680-106200-2 Analy Batch No.: 352391

SDG No.: 680-106200-02

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

Calibration Start Date: 10/07/2014 13:49 Calibration End Date: 10/07/2014 16:03 Calibration ID: 34899

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/ML) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1<br>LVL 6 | LVL 2<br>LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Indeno[1,2,3-cd]pyrene | CRY | QuaF | +++++<br>1003977 | 5958<br>1728326 | 31354 | 60575 | 388015 | +++++<br>10.0 | 0.100<br>20.0 | 0.500 | 1.00 | 5.00 |
| Dibenz(a,h)anthracene | PRY | QuaF | +++++<br>826573 | 4793<br>1432796 | 24958 | 46877 | 309607 | +++++<br>10.0 | 0.100<br>20.0 | 0.500 | 1.00 | 5.00 |
| Benzo[g,h,i]perylene | PRY | QuaF | +++++<br>857781 | 5511<br>1493507 | 29442 | 54713 | 324945 | +++++<br>10.0 | 0.100<br>20.0 | 0.500 | 1.00 | 5.00 |
| o-Terphenyl | CRY | QuaF | +++++<br>566554 | 5286<br>1066658 | 28580 | 51716 | 263046 | +++++<br>10.0 | 0.100<br>20.0 | 0.500 | 1.00 | 5.00 |

Curve Type Legend:

Ave = Average ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0702.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 07-Oct-2014 13:49:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: ICIS
Misc. Info.: 680-0013559-002
Operator ID: RM Instrument ID: CMSY
Sublist: chrom-8270D_LLPAH_MSY*sub5

Method: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 08-Oct-2014 12:15:26 Calib Date: 07-Oct-2014 15:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: webbk Date: 07-Oct-2014 14:42:56

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 3.226 | 3.226 | 0.000 | 98 | 168653 | 2.00 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.969 | 4.969 | 0.000 | 92 | 96300 | 2.00 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.574 | 6.574 | 0.000 | 98 | 158524 | 2.00 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 9.462 | 9.462 | 0.000 | 99 | 162442 | 2.00 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.821 | 10.821 | 0.000 | 98 | 146029 | 2.00 | 2.00 | |
| $ 6 o-Terphenyl | 230 | 7.045 | 7.045 | 0.000 | 91 | 263046 | 5.00 | 5.01 | |
| 7 Naphthalene | 128 | 3.247 | 3.247 | 0.000 | 99 | 459963 | 5.00 | 5.00 | |
| 8 2-Methylnaphthalene | 142 | 3.905 | 3.905 | 0.000 | 87 | 304670 | 5.00 | 4.99 | |
| 9 1-Methylnaphthalene | 142 | 4.001 | 4.001 | 0.000 | 92 | 286758 | 5.00 | 5.07 | |
| 11 Acenaphthylene | 152 | 4.814 | 4.814 | 0.000 | 98 | 468419 | 5.00 | 5.02 | |
| 12 Acenaphthene | 153 | 5.007 | 5.007 | 0.000 | 93 | 290570 | 5.00 | 4.85 | |
| 14 Fluorene | 166 | 5.558 | 5.558 | 0.000 | 96 | 328207 | 5.00 | 4.96 | |
| 15 Phenanthrene | 178 | 6.601 | 6.601 | 0.000 | 96 | 455557 | 5.00 | 4.80 | |
| 16 Anthracene | 178 | 6.654 | 6.654 | 0.000 | 99 | 453638 | 5.00 | 4.81 | |
| 17 Fluoranthene | 202 | 7.917 | 7.917 | 0.000 | 98 | 482649 | 5.00 | 4.80 | |
| 18 Pyrene | 202 | 8.157 | 8.157 | 0.000 | 98 | 508195 | 5.00 | 4.80 | |
| 19 Benzo[a]anthracene | 228 | 9.452 | 9.452 | 0.000 | 98 | 443973 | 5.00 | 4.67 | |
| 20 Chrysene | 228 | 9.489 | 9.489 | 0.000 | 99 | 416500 | 5.00 | 4.72 | |
| 21 Benzo[b]fluoranthene | 252 | 10.489 | 10.489 | 0.000 | 99 | 471572 | 5.00 | 4.91 | |
| 22 Benzo[k]fluoranthene | 252 | 10.516 | 10.516 | 0.000 | 99 | 419405 | 5.00 | 4.58 | |
| 23 Benzo[a]pyrene | 252 | 10.773 | 10.773 | 0.000 | 98 | 370555 | 5.00 | 4.69 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.810 | 11.810 | 0.000 | 99 | 388015 | 5.00 | 4.35 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.837 | 11.837 | 0.000 | 96 | 309607 | 5.00 | 4.46 | |
| 26 Benzo[g,h,i]perylene | 276 | 12.094 | 12.094 | 0.000 | 98 | 324945 | 5.00 | 4.49 | |

## Reagents:

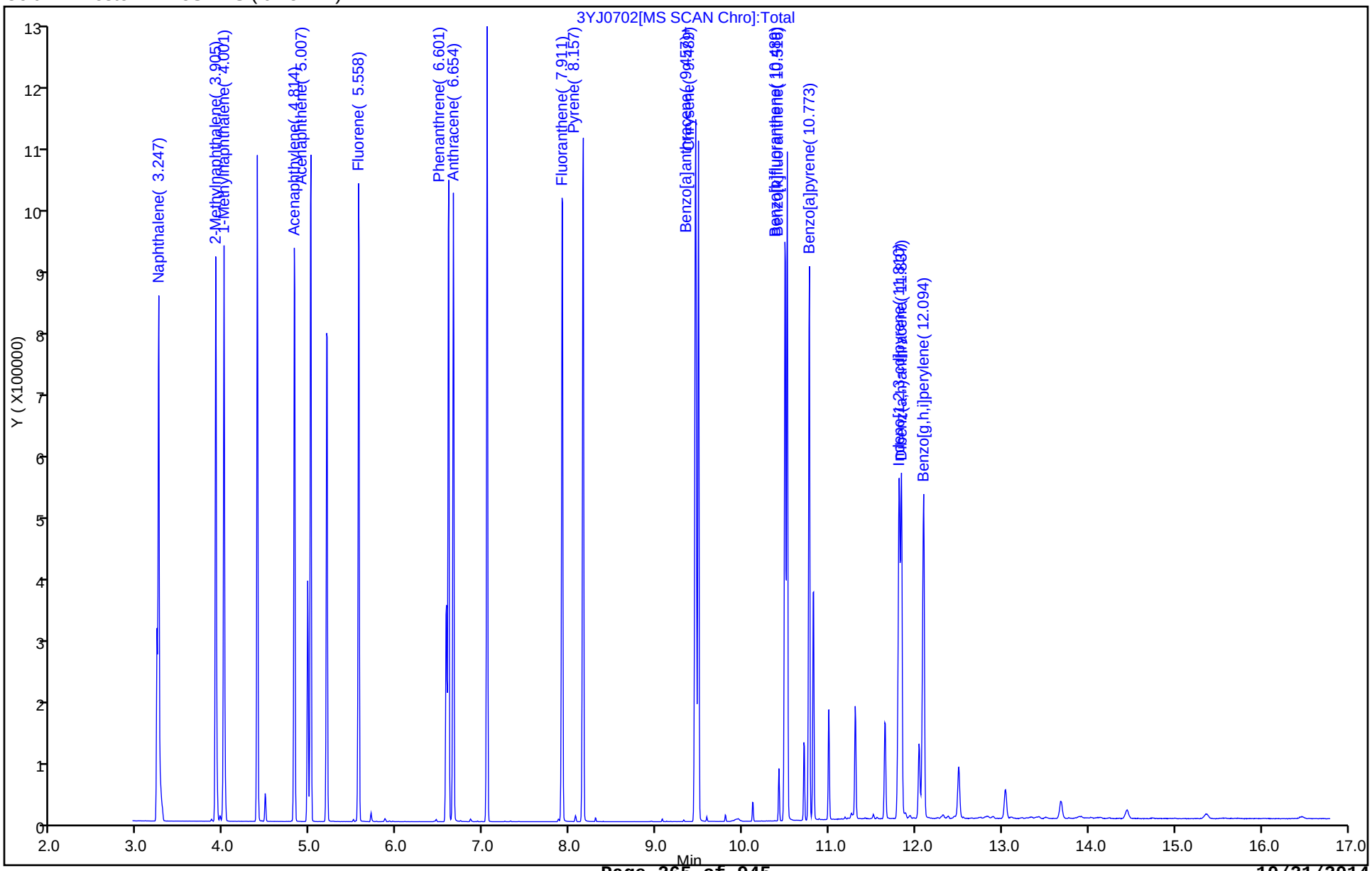
SMLLPAH5.0LVI_00022 Amount Added: 1.00 Units: mL

Report Date: 08-Oct-2014 12:15:26 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0702.D | | | | |
| Injection Date: | 07-Oct-2014 13:49:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | ICIS | | | Worklist Smp#: | 2 |
| Client ID: | | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | ALS Bottle#: | 2 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0703.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 07-Oct-2014 14:12:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0013559-003
Operator ID: RM Instrument ID: CMSY
Sublist: chrom-8270D_LLPAH_MSY*sub5

Method: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 08-Oct-2014 12:15:27 Calib Date: 07-Oct-2014 15:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: webbk Date: 07-Oct-2014 14:43:32

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 3.226 | 3.226 | 0.000 | 98 | 170415 | 2.00 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.969 | 4.969 | 0.000 | 91 | 94877 | 2.00 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.569 | 6.569 | 0.000 | 98 | 152335 | 2.00 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 9.457 | 9.457 | 0.000 | 99 | 127296 | 2.00 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.815 | 10.815 | 0.000 | 99 | 114884 | 2.00 | 2.00 | |
| $ 6 o-Terphenyl | 230 | 7.039 | 7.039 | 0.000 | 92 | 5286 | 0.1000 | 0.1302 | |
| 7 Naphthalene | 128 | 3.242 | 3.242 | 0.000 | 98 | 8751 | 0.1000 | 0.0941 | |
| 8 2-Methylnaphthalene | 142 | 3.905 | 3.905 | 0.000 | 85 | 5634 | 0.1000 | 0.0914 | |
| 9 1-Methylnaphthalene | 142 | 4.001 | 4.001 | 0.000 | 92 | 5309 | 0.1000 | 0.0929 | |
| 11 Acenaphthylene | 152 | 4.814 | 4.814 | 0.000 | 98 | 8567 | 0.1000 | 0.0932 | |
| 12 Acenaphthene | 153 | 5.001 | 5.001 | 0.000 | 94 | 5748 | 0.1000 | 0.0973 | |
| 14 Fluorene | 166 | 5.558 | 5.558 | 0.000 | 96 | 5983 | 0.1000 | 0.0918 | |
| 15 Phenanthrene | 178 | 6.595 | 6.595 | 0.000 | 95 | 8796 | 0.1000 | 0.0965 | |
| 16 Anthracene | 178 | 6.649 | 6.649 | 0.000 | 99 | 8434 | 0.1000 | 0.0930 | |
| 17 Fluoranthene | 202 | 7.906 | 7.906 | 0.000 | 98 | 8949 | 0.1000 | 0.0926 | |
| 18 Pyrene | 202 | 8.146 | 8.146 | 0.000 | 97 | 9619 | 0.1000 | 0.1154 | |
| 19 Benzo[a]anthracene | 228 | 9.446 | 9.446 | 0.000 | 98 | 7468 | 0.1000 | 0.1003 | |
| 20 Chrysene | 228 | 9.478 | 9.478 | 0.000 | 99 | 6949 | 0.1000 | 0.0977 | |
| 21 Benzo[b]fluoranthene | 252 | 10.484 | 10.484 | 0.000 | 99 | 7555 | 0.1000 | 0.1000 | |
| 22 Benzo[k]fluoranthene | 252 | 10.505 | 10.505 | 0.000 | 99 | 7421 | 0.1000 | 0.1010 | |
| 23 Benzo[a]pyrene | 252 | 10.762 | 10.762 | 0.000 | 97 | 6437 | 0.1000 | 0.1036 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.800 | 11.800 | 0.000 | 98 | 5958 | 0.1000 | 0.0853 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.826 | 11.826 | 0.000 | 95 | 4793 | 0.1000 | 0.0883 | |
| 26 Benzo[g,h,i]perylene | 276 | 12.072 | 12.072 | 0.000 | 97 | 5511 | 0.1000 | 0.0973 | |

## Reagents:

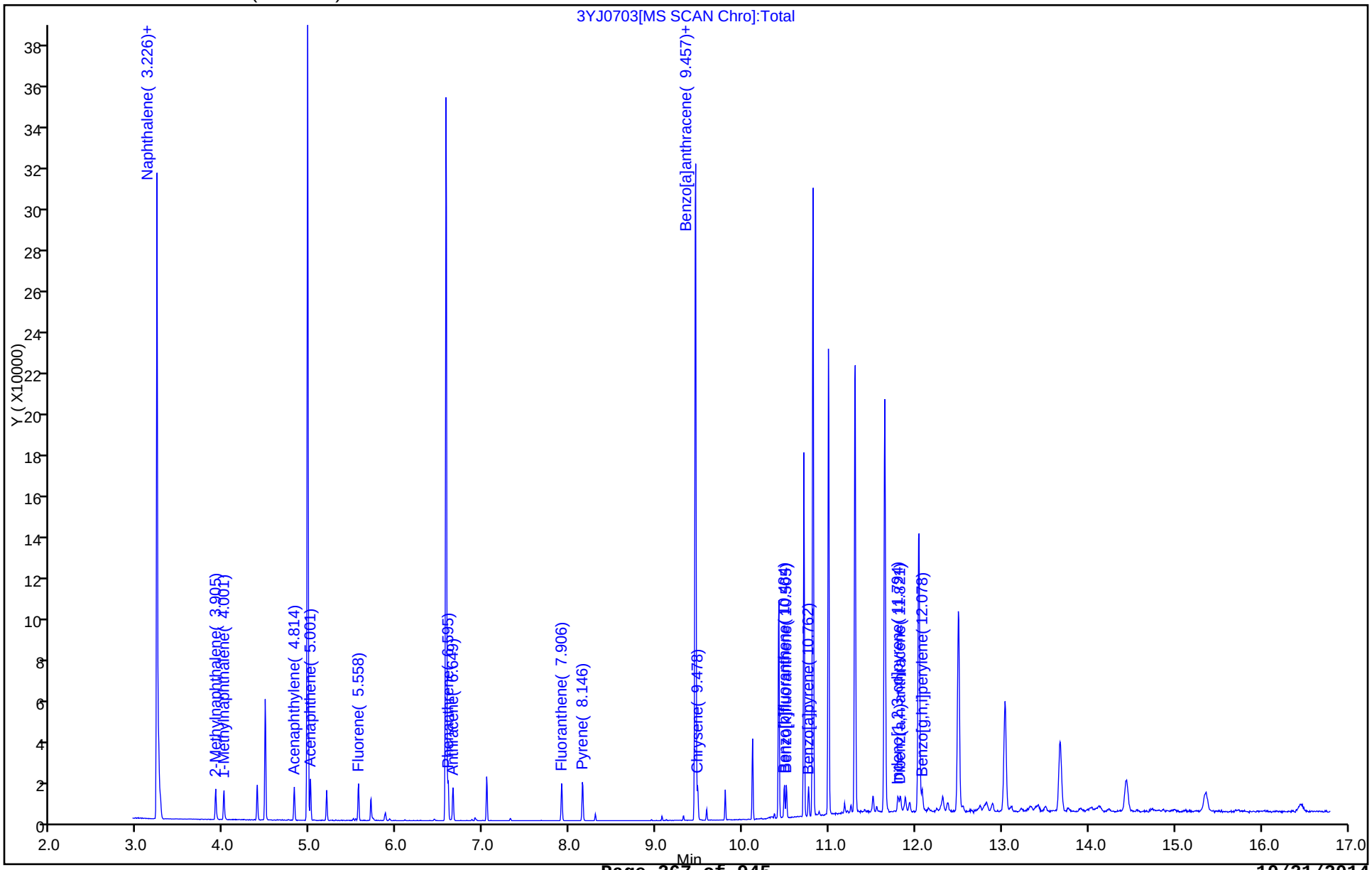
SMLLPAH0.1LVI_00019 Amount Added: 1.00 Units: mL

Report Date: 08-Oct-2014 12:15:28 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0703.D | | | | |
| Injection Date: | 07-Oct-2014 14:12:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | IC | | | Worklist Smp#: | 3 |
| Client ID: | | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | ALS Bottle#: | 3 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0704.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 07-Oct-2014 14:34:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0013559-004
Operator ID: RM Instrument ID: CMSY
Sublist: chrom-8270D_LLPAH_MSY*sub5

Method: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 08-Oct-2014 12:15:28 Calib Date: 07-Oct-2014 15:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: webbk Date: 07-Oct-2014 15:17:52

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 3.231 | 3.226 | 0.005 | 98 | 163986 | 2.00 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.975 | 4.969 | 0.006 | 91 | 93934 | 2.00 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.574 | 6.569 | 0.005 | 98 | 153315 | 2.00 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 9.473 | 9.457 | 0.016 | 99 | 157923 | 2.00 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.821 | 10.815 | 0.006 | 98 | 147777 | 2.00 | 2.00 | |
| $ 6 o-Terphenyl | 230 | 7.055 | 7.039 | 0.016 | 90 | 1066658 | 20.0 | 20.0 | |
| 7 Naphthalene | 128 | 3.252 | 3.242 | 0.010 | 99 | 1773946 | 20.0 | 19.8 | |
| 8 2-Methylnaphthalene | 142 | 3.916 | 3.905 | 0.011 | 87 | 1188296 | 20.0 | 20.0 | |
| 9 1-Methylnaphthalene | 142 | 4.012 | 4.001 | 0.011 | 92 | 1107422 | 20.0 | 20.1 | |
| 11 Acenaphthylene | 152 | 4.825 | 4.814 | 0.011 | 98 | 1872059 | 20.0 | 20.6 | |
| 12 Acenaphthene | 153 | 5.017 | 5.001 | 0.016 | 93 | 1170070 | 20.0 | 20.0 | |
| 14 Fluorene | 166 | 5.568 | 5.558 | 0.010 | 96 | 1317917 | 20.0 | 20.4 | |
| 15 Phenanthrene | 178 | 6.611 | 6.595 | 0.016 | 97 | 1808843 | 20.0 | 19.7 | |
| 16 Anthracene | 178 | 6.670 | 6.649 | 0.021 | 99 | 1854025 | 20.0 | 20.3 | |
| 17 Fluoranthene | 202 | 7.927 | 7.906 | 0.021 | 98 | 1927157 | 20.0 | 19.8 | |
| 18 Pyrene | 202 | 8.168 | 8.146 | 0.022 | 97 | 2023259 | 20.0 | 20.0 | |
| 19 Benzo[a]anthracene | 228 | 9.462 | 9.446 | 0.016 | 98 | 1834130 | 20.0 | 19.9 | |
| 20 Chrysene | 228 | 9.505 | 9.478 | 0.027 | 99 | 1547225 | 20.0 | 20.0 | |
| 21 Benzo[b]fluoranthene | 252 | 10.505 | 10.484 | 0.021 | 99 | 1888196 | 20.0 | 19.4 | |
| 22 Benzo[k]fluoranthene | 252 | 10.532 | 10.505 | 0.027 | 99 | 1725338 | 20.0 | 19.9 | |
| 23 Benzo[a]pyrene | 252 | 10.783 | 10.762 | 0.021 | 97 | 1564180 | 20.0 | 19.6 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.832 | 11.800 | 0.032 | 99 | 1728326 | 20.0 | 19.9 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.858 | 11.826 | 0.032 | 96 | 1432796 | 20.0 | 19.9 | |
| 26 Benzo[g,h,i]perylene | 276 | 12.126 | 12.072 | 0.054 | 98 | 1493507 | 20.0 | 19.9 | |

## Reagents:

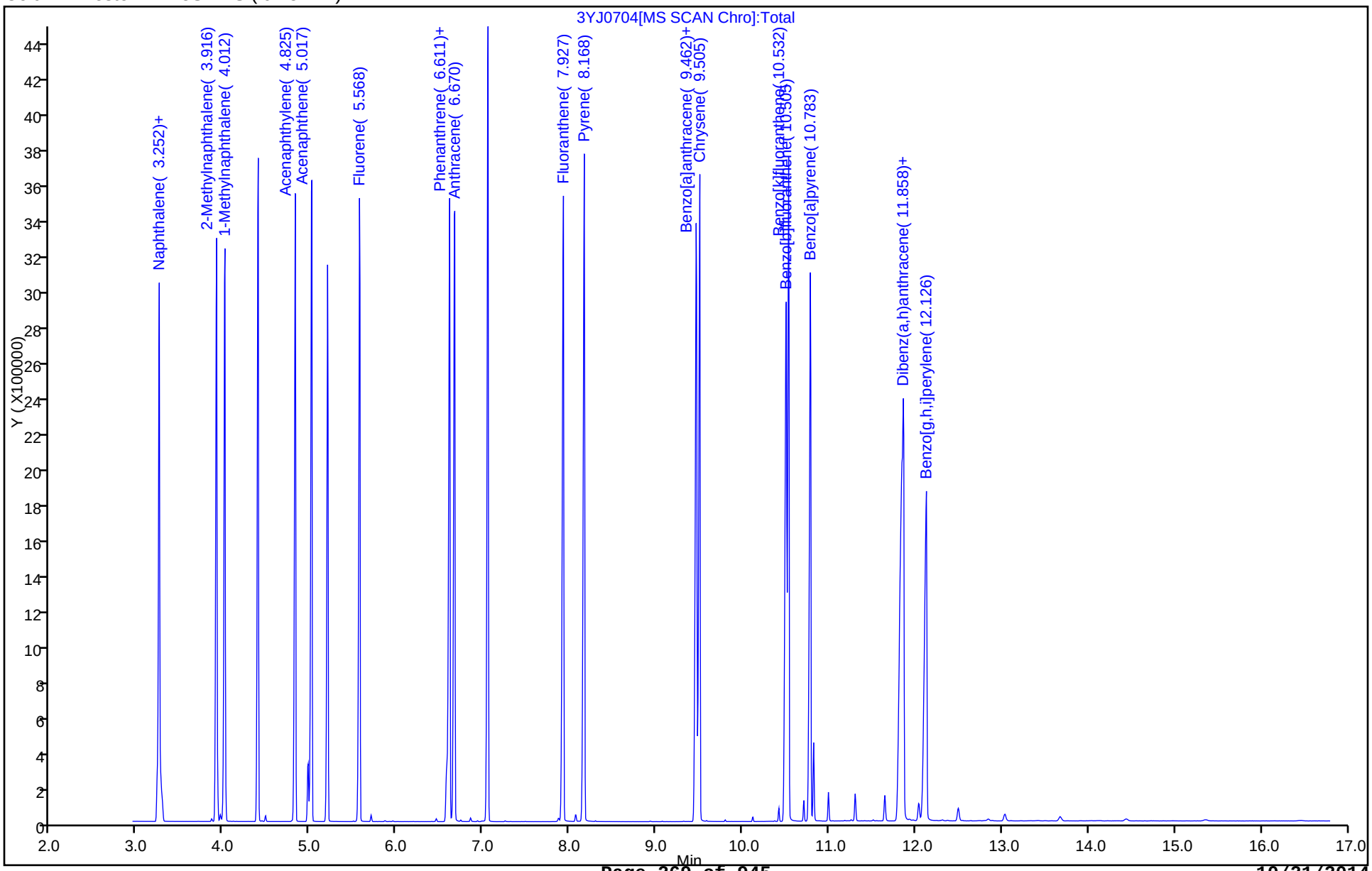
SMLLPAH20LVI_00020 Amount Added: 1.00 Units: mL

Report Date: 08-Oct-2014 12:15:29 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0704.D | | | | |
| Injection Date: | 07-Oct-2014 14:34:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | IC | | | Worklist Smp#: | 4 |
| Client ID: | | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | ALS Bottle#: | 4 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0705.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 07-Oct-2014 14:56:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0013559-005
Operator ID: RM Instrument ID: CMSY
Sublist: chrom-8270D_LLPAH_MSY*sub5

Method: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 08-Oct-2014 12:15:29 Calib Date: 07-Oct-2014 15:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: webbk Date: 07-Oct-2014 15:18:33

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 3.226 | 3.226 | 0.000 | 98 | 169760 | 2.00 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.969 | 4.969 | 0.000 | 92 | 96290 | 2.00 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.574 | 6.569 | 0.005 | 98 | 158455 | 2.00 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 9.468 | 9.457 | 0.011 | 99 | 173403 | 2.00 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.821 | 10.815 | 0.006 | 98 | 164971 | 2.00 | 2.00 | |
| $ 6 o-Terphenyl | 230 | 7.050 | 7.039 | 0.011 | 91 | 566554 | 10.0 | 9.96 | |
| 7 Naphthalene | 128 | 3.247 | 3.242 | 0.005 | 99 | 964452 | 10.0 | 10.4 | |
| 8 2-Methylnaphthalene | 142 | 3.910 | 3.905 | 0.005 | 87 | 660260 | 10.0 | 10.8 | |
| 9 1-Methylnaphthalene | 142 | 4.007 | 4.001 | 0.006 | 92 | 594286 | 10.0 | 10.4 | |
| 11 Acenaphthylene | 152 | 4.820 | 4.814 | 0.006 | 98 | 984374 | 10.0 | 10.5 | |
| 12 Acenaphthene | 153 | 5.007 | 5.001 | 0.006 | 93 | 629354 | 10.0 | 10.5 | |
| 14 Fluorene | 166 | 5.563 | 5.558 | 0.005 | 96 | 707217 | 10.0 | 10.7 | |
| 15 Phenanthrene | 178 | 6.606 | 6.595 | 0.011 | 96 | 1000362 | 10.0 | 10.5 | |
| 16 Anthracene | 178 | 6.660 | 6.649 | 0.011 | 99 | 1023441 | 10.0 | 10.9 | |
| 17 Fluoranthene | 202 | 7.922 | 7.906 | 0.016 | 98 | 1100311 | 10.0 | 10.9 | |
| 18 Pyrene | 202 | 8.163 | 8.146 | 0.017 | 97 | 1137446 | 10.0 | 10.1 | |
| 19 Benzo[a]anthracene | 228 | 9.457 | 9.446 | 0.011 | 98 | 1059805 | 10.0 | 10.5 | |
| 20 Chrysene | 228 | 9.500 | 9.478 | 0.022 | 99 | 928920 | 10.0 | 10.2 | |
| 21 Benzo[b]fluoranthene | 252 | 10.500 | 10.484 | 0.016 | 99 | 1119453 | 10.0 | 10.3 | |
| 22 Benzo[k]fluoranthene | 252 | 10.527 | 10.505 | 0.022 | 99 | 1041281 | 10.0 | 10.3 | |
| 23 Benzo[a]pyrene | 252 | 10.778 | 10.762 | 0.016 | 98 | 951241 | 10.0 | 10.7 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.821 | 11.800 | 0.021 | 99 | 1003977 | 10.0 | 10.5 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.848 | 11.826 | 0.022 | 99 | 826573 | 10.0 | 10.4 | |
| 26 Benzo[g,h,i]perylene | 276 | 12.110 | 12.072 | 0.038 | 98 | 857781 | 10.0 | 10.4 | |

## Reagents:

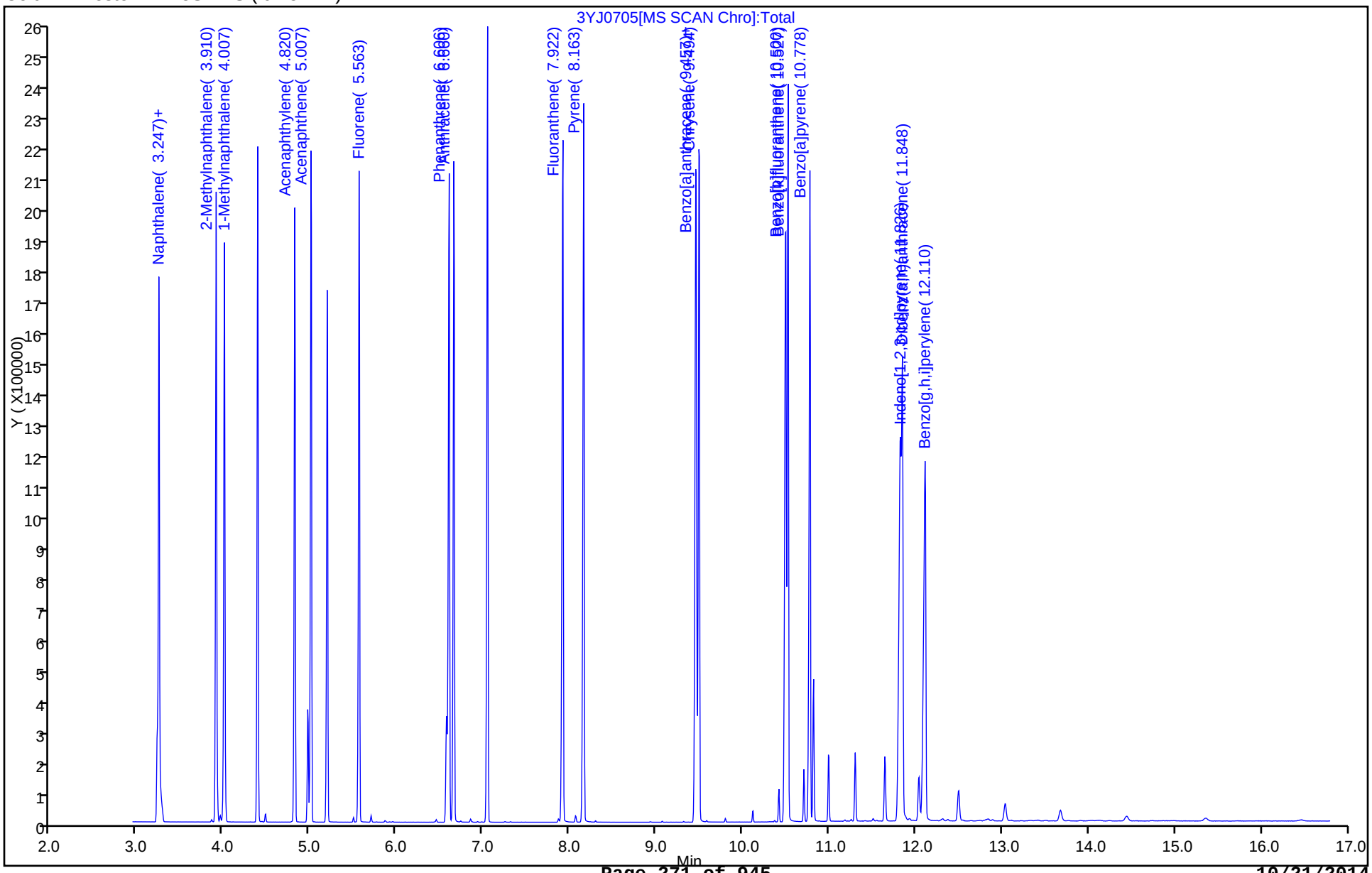
SMLLPAH10LVI_00019 Amount Added: 1.00 Units: mL

Report Date: 08-Oct-2014 12:15:30 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0705.D | | | | |
| Injection Date: | 07-Oct-2014 14:56:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | IC | | | Worklist Smp#: | 5 |
| Client ID: | | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | ALS Bottle#: | 5 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0706.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 07-Oct-2014 15:18:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0013559-006
Operator ID: RM Instrument ID: CMSY
Sublist: chrom-8270D_LLPAH_MSY*sub5

Method: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 08-Oct-2014 12:15:31 Calib Date: 07-Oct-2014 15:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: webbk Date: 07-Oct-2014 15:37:53

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 3.226 | 3.226 | 0.000 | 98 | 164737 | 2.00 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.969 | 4.969 | 0.000 | 92 | 93013 | 2.00 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.574 | 6.569 | 0.005 | 98 | 149328 | 2.00 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 9.457 | 9.457 | 0.000 | 99 | 139474 | 2.00 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.815 | 10.815 | 0.000 | 99 | 118920 | 2.00 | 2.00 | |
| $ 6 o-Terphenyl | 230 | 7.045 | 7.039 | 0.006 | 91 | 51716 | 1.00 | 1.16 | |
| 7 Naphthalene | 128 | 3.247 | 3.242 | 0.005 | 99 | 90133 | 1.00 | 1.00 | |
| 8 2-Methylnaphthalene | 142 | 3.905 | 3.905 | 0.000 | 86 | 59286 | 1.00 | 0.99 | |
| 9 1-Methylnaphthalene | 142 | 4.001 | 4.001 | 0.000 | 93 | 55320 | 1.00 | 1.00 | |
| 11 Acenaphthylene | 152 | 4.814 | 4.814 | 0.000 | 98 | 88431 | 1.00 | 0.9811 | |
| 12 Acenaphthene | 153 | 5.001 | 5.001 | 0.000 | 93 | 57601 | 1.00 | 0.99 | |
| 14 Fluorene | 166 | 5.558 | 5.558 | 0.000 | 95 | 63258 | 1.00 | 0.9895 | |
| 15 Phenanthrene | 178 | 6.595 | 6.595 | 0.000 | 96 | 91172 | 1.00 | 1.02 | |
| 16 Anthracene | 178 | 6.649 | 6.649 | 0.000 | 99 | 88310 | 1.00 | 0.99 | |
| 17 Fluoranthene | 202 | 7.911 | 7.906 | 0.005 | 98 | 95493 | 1.00 | 1.01 | |
| 18 Pyrene | 202 | 8.152 | 8.146 | 0.006 | 98 | 100594 | 1.00 | 1.10 | |
| 19 Benzo[a]anthracene | 228 | 9.446 | 9.446 | 0.000 | 98 | 81565 | 1.00 | 1.00 | |
| 20 Chrysene | 228 | 9.484 | 9.478 | 0.006 | 99 | 77530 | 1.00 | 1.00 | |
| 21 Benzo[b]fluoranthene | 252 | 10.484 | 10.484 | 0.000 | 99 | 77999 | 1.00 | 1.00 | |
| 22 Benzo[k]fluoranthene | 252 | 10.505 | 10.505 | 0.000 | 99 | 78870 | 1.00 | 1.04 | |
| 23 Benzo[a]pyrene | 252 | 10.762 | 10.762 | 0.000 | 98 | 62294 | 1.00 | 0.9683 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.799 | 11.800 | -0.001 | 99 | 60575 | 1.00 | 0.7911 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.826 | 11.826 | 0.000 | 95 | 46877 | 1.00 | 0.8331 | |
| 26 Benzo[g,h,i]perylene | 276 | 12.078 | 12.072 | 0.006 | 98 | 54713 | 1.00 | 0.9323 | |

## Reagents:

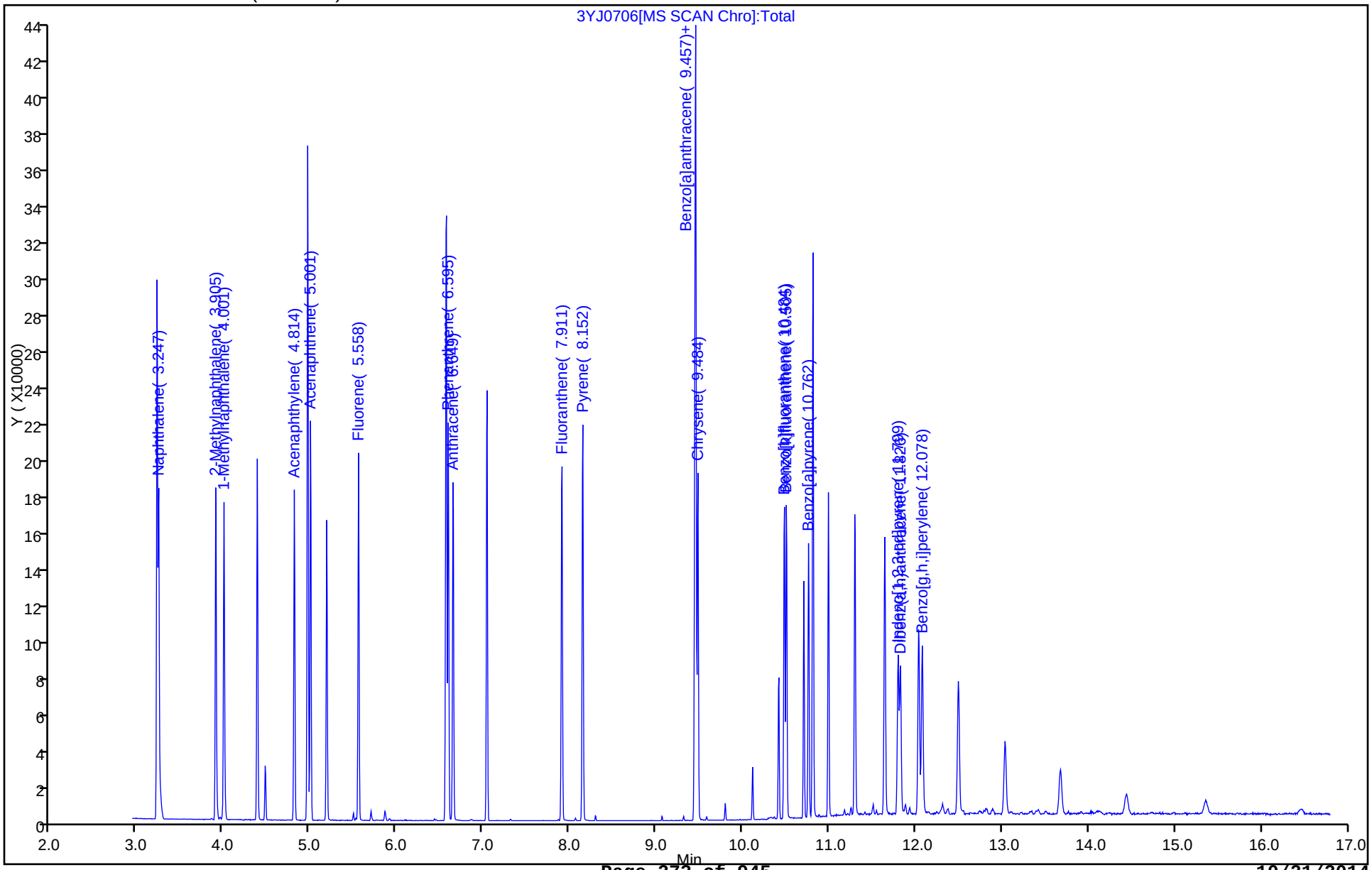
SMLLPAH1.0LVI_00017 Amount Added: 1.00 Units: mL

Report Date: 08-Oct-2014 12:15:31 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0706.D | | | | |
| Injection Date: | 07-Oct-2014 15:18:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | IC | | | Worklist Smp#: | 6 |
| Client ID: | | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | ALS Bottle#: | 6 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 07-Oct-2014 15:41:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0013559-007
Operator ID: RM Instrument ID: CMSY
Sublist: chrom-8270D_LLPAH_MSY*sub5

Method: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 08-Oct-2014 12:15:32 Calib Date: 07-Oct-2014 15:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: webbk Date: 07-Oct-2014 16:38:23

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 3.226 | 3.226 | 0.000 | 98 | 175515 | 2.00 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.969 | 4.969 | 0.000 | 92 | 99795 | 2.00 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.569 | 6.569 | 0.000 | 98 | 164687 | 2.00 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 9.457 | 9.457 | 0.000 | 99 | 148317 | 2.00 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.815 | 10.815 | 0.000 | 99 | 127894 | 2.00 | 2.00 | |
| $ 6 o-Terphenyl | 230 | 7.045 | 7.039 | 0.006 | 91 | 28580 | 0.5000 | 0.6034 | |
| 7 Naphthalene | 128 | 3.247 | 3.242 | 0.005 | 99 | 48936 | 0.5000 | 0.5112 | |
| 8 2-Methylnaphthalene | 142 | 3.905 | 3.905 | 0.000 | 87 | 32217 | 0.5000 | 0.5075 | |
| 9 1-Methylnaphthalene | 142 | 4.001 | 4.001 | 0.000 | 91 | 29600 | 0.5000 | 0.5028 | |
| 11 Acenaphthylene | 152 | 4.814 | 4.814 | 0.000 | 98 | 48345 | 0.5000 | 0.4999 | |
| 12 Acenaphthene | 153 | 5.001 | 5.001 | 0.000 | 93 | 31454 | 0.5000 | 0.5063 | |
| 14 Fluorene | 166 | 5.558 | 5.558 | 0.000 | 96 | 34703 | 0.5000 | 0.5060 | |
| 15 Phenanthrene | 178 | 6.595 | 6.595 | 0.000 | 97 | 49964 | 0.5000 | 0.5070 | |
| 16 Anthracene | 178 | 6.649 | 6.649 | 0.000 | 99 | 49674 | 0.5000 | 0.5068 | |
| 17 Fluoranthene | 202 | 7.911 | 7.906 | 0.005 | 98 | 53273 | 0.5000 | 0.5100 | |
| 18 Pyrene | 202 | 8.152 | 8.146 | 0.006 | 98 | 56170 | 0.5000 | 0.5786 | |
| 19 Benzo[a]anthracene | 228 | 9.446 | 9.446 | 0.000 | 98 | 44427 | 0.5000 | 0.5122 | |
| 20 Chrysene | 228 | 9.484 | 9.478 | 0.006 | 99 | 43392 | 0.5000 | 0.5250 | |
| 21 Benzo[b]fluoranthene | 252 | 10.484 | 10.484 | 0.000 | 99 | 42808 | 0.5000 | 0.5089 | |
| 22 Benzo[k]fluoranthene | 252 | 10.505 | 10.505 | 0.000 | 99 | 41943 | 0.5000 | 0.5139 | |
| 23 Benzo[a]pyrene | 252 | 10.762 | 10.762 | 0.000 | 98 | 35063 | 0.5000 | 0.5068 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.800 | 11.800 | 0.000 | 99 | 31354 | 0.5000 | 0.3851 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.826 | 11.826 | 0.000 | 95 | 24958 | 0.5000 | 0.4127 | |
| 26 Benzo[g,h,i]perylene | 276 | 12.078 | 12.072 | 0.006 | 98 | 29442 | 0.5000 | 0.4668 | |

## Reagents:

SMLLPAH0.5LVI_00019 Amount Added: 1.00 Units: mL

Report Date: 08-Oct-2014 12:15:32 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Injection Date: 07-Oct-2014 15:41:30 Instrument ID: CMSY Operator ID: RM

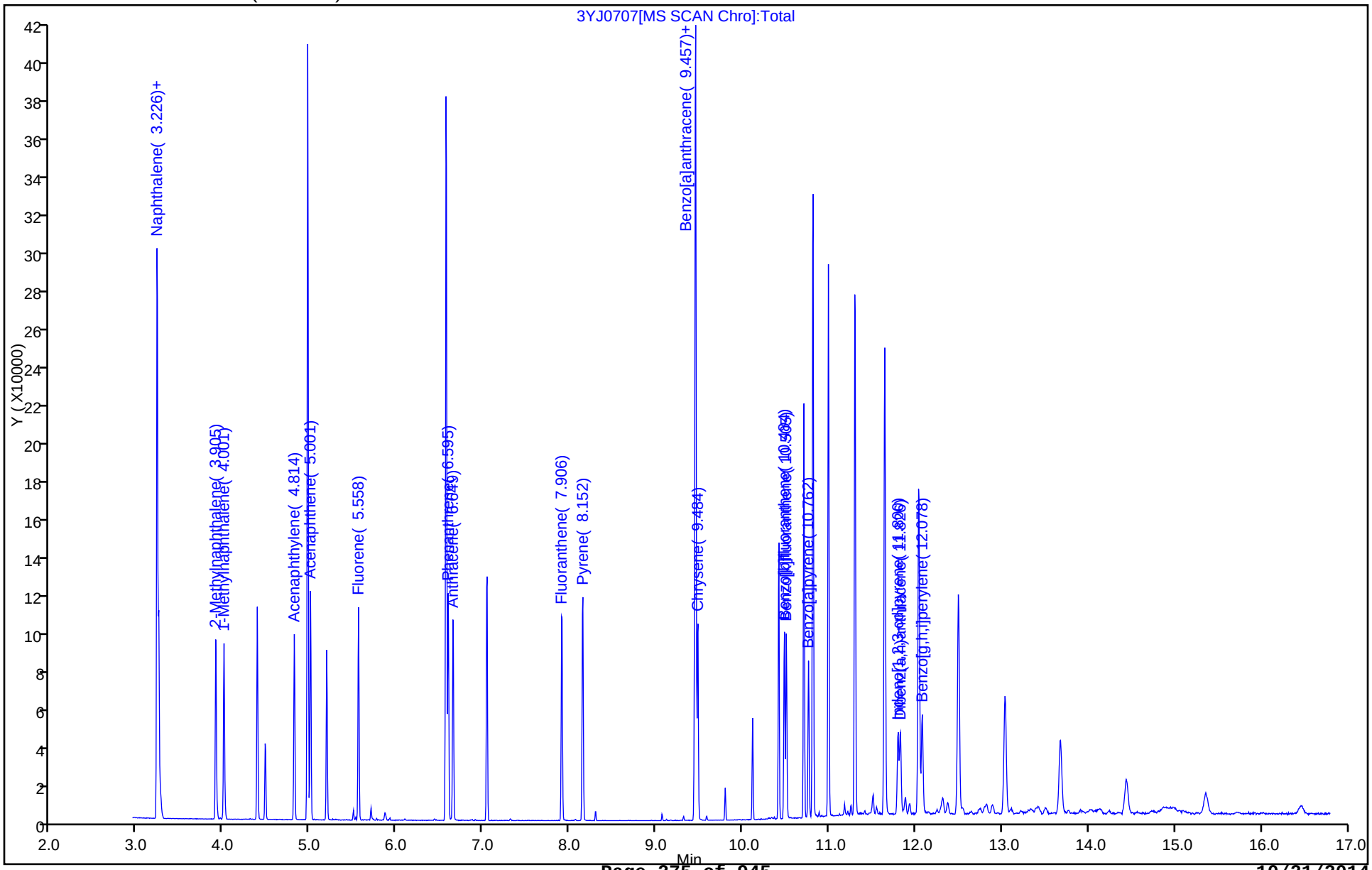
Lims ID: IC Worklist Smp#: 7

Client ID:

Injection Vol: 2.0 ul Dil. Factor: 1.0000 ALS Bottle#: 7

Method: 8270D_LLPAH_MSY Limit Group: 8270D_LL_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0708.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 07-Oct-2014 16:03:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0013559-008
Operator ID: RM Instrument ID: CMSY
Sublist: chrom-8270D_LLPAH_MSY*sub5

Method: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 08-Oct-2014 12:15:33 Calib Date: 07-Oct-2014 16:03:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0708.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: webbk Date: 07-Oct-2014 16:46:43

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 3.226 | 3.226 | 0.000 | 98 | 167567 | 2.00 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.969 | 4.969 | 0.000 | 91 | 92308 | 2.00 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.574 | 6.569 | 0.005 | 98 | 151668 | 2.00 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 9.457 | 9.457 | 0.000 | 99 | 137662 | 2.00 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.815 | 10.815 | 0.000 | 99 | 116090 | 2.00 | 2.00 | |
| $ 6 o-Terphenyl | 230 | 7.045 | 7.039 | 0.006 | 91 | 11858 | | 0.2700 | |
| 7 Naphthalene | 128 | 3.247 | 3.242 | 0.005 | 99 | 19313 | | 0.2113 | |
| 8 2-Methylnaphthalene | 142 | 3.905 | 3.905 | 0.000 | 88 | 12761 | | 0.2106 | |
| 9 1-Methylnaphthalene | 142 | 4.001 | 4.001 | 0.000 | 91 | 11490 | | 0.2044 | |
| 10 1,1'-Biphenyl | 154 | 4.386 | 4.386 | 0.000 | 0 | 15118 | | NC | |
| 11 Acenaphthylene | 152 | 4.814 | 4.814 | 0.000 | 98 | 18624 | | 0.2082 | |
| 12 Acenaphthene | 153 | 5.001 | 5.001 | 0.000 | 93 | 12260 | | 0.2133 | |
| 14 Fluorene | 166 | 5.558 | 5.558 | 0.000 | 96 | 13626 | | 0.2148 | |
| 15 Phenanthrene | 178 | 6.595 | 6.595 | 0.000 | 96 | 19732 | | 0.2174 | |
| 16 Anthracene | 178 | 6.649 | 6.649 | 0.000 | 99 | 18978 | | 0.2102 | |
| 17 Fluoranthene | 202 | 7.906 | 7.906 | 0.000 | 98 | 21180 | | 0.2202 | |
| 18 Pyrene | 202 | 8.152 | 8.146 | 0.006 | 97 | 21800 | | 0.2418 | |
| 19 Benzo[a]anthracene | 228 | 9.446 | 9.446 | 0.000 | 97 | 17764 | | 0.2206 | |
| 20 Chrysene | 228 | 9.478 | 9.478 | 0.000 | 99 | 16747 | | 0.2179 | |
| 21 Benzo[b]fluoranthene | 252 | 10.484 | 10.484 | 0.000 | 99 | 16783 | | 0.2198 | |
| 22 Benzo[k]fluoranthene | 252 | 10.505 | 10.505 | 0.000 | 99 | 15807 | | 0.2131 | |
| 23 Benzo[a]pyrene | 252 | 10.762 | 10.762 | 0.000 | 97 | 13420 | | 0.2137 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.800 | 11.800 | 0.000 | 98 | 12300 | | 0.1628 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.826 | 11.826 | 0.000 | 95 | 9638 | | 0.1756 | |
| 26 Benzo[g,h,i]perylene | 276 | 12.078 | 12.072 | 0.006 | 98 | 11098 | | 0.1939 | |

## QC Flag Legend

Processing Flags

NC - Not Calibrated

## Reagents:

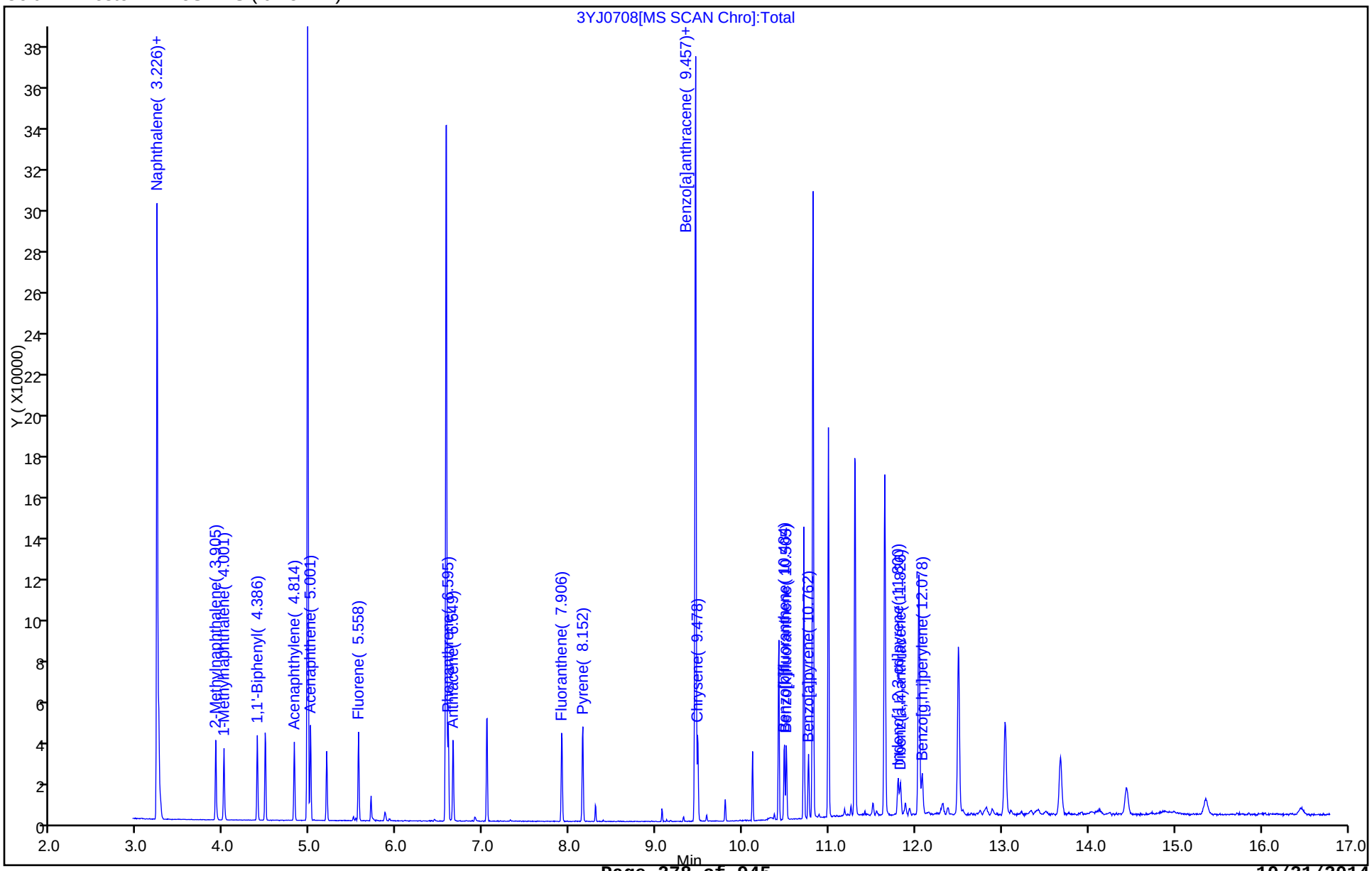
| | | | | |
|---|---|---|---|---|
| SMLLPAH0.2LVI_00018 | Amount Added: | 0.00 | Units: | |
| SM-LLISTD_00106 | Amount Added: | 10.00 | Units: uL | Run Reagent |

Report Date: 08-Oct-2014 12:15:33 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0708.D | | | | |
| Injection Date: | 07-Oct-2014 16:03:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | IC | | | Worklist Smp#: | 8 |
| Client ID: | | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | ALS Bottle#: | 8 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Lab Sample ID: ICV 680-352391/9 Calibration Date: 10/07/2014 16:25

Instrument ID: CMSY Calib Start Date: 10/07/2014 13:49

GC Column: RXi- 5Sil MS ID: 0.25(mm) Calib End Date: 10/07/2014 16:03

Lab File ID: 3YJ0709.D Conc. Units: ug/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | Ave | 1.091 | 0.9809 | 0.7000 | 4.50 | 5.00 | -10.1 | 30.0 |
| 2-Methylnaphthalene | Ave | 0.7234 | 0.6512 | 0.4000 | 4.50 | 5.00 | -10.0 | 30.0 |
| 1-Methylnaphthalene | Ave | 0.6708 | 0.6172 | | 4.60 | 5.00 | -8.0 | 30.0 |
| Acenaphthylene | Ave | 1.938 | 1.806 | 0.9000 | 4.66 | 5.00 | -6.8 | 30.0 |
| Acenaphthene | Ave | 1.245 | 1.146 | 0.9000 | 4.60 | 5.00 | -8.0 | 30.0 |
| Fluorene | Ave | 1.375 | 1.319 | 0.9000 | 4.80 | 5.00 | -4.0 | 30.0 |
| Phenanthrene | Ave | 1.197 | 1.099 | 0.7000 | 4.59 | 5.00 | -8.2 | 30.0 |
| Anthracene | Ave | 1.190 | 1.139 | 0.7000 | 4.78 | 5.00 | -4.4 | 30.0 |
| Fluoranthene | Ave | 1.269 | 1.219 | 0.6000 | 4.81 | 5.00 | -3.9 | 30.0 |
| Pyrene | QuaF | | 1.160 | 0.6000 | 4.45 | 5.00 | -11.0 | 30.0 |
| Benzo[a]anthracene | Ave | 1.170 | 1.092 | 0.7000 | 4.67 | 5.00 | -6.6 | 30.0 |
| Chrysene | QuaF | | 1.052 | 0.7000 | 4.85 | 5.00 | -3.0 | 30.0 |
| Benzo[b]fluoranthene | Ave | 1.315 | 1.139 | 0.4000 | 4.33 | 5.00 | -13.4 | 30.0 |
| Benzo[k]fluoranthene | QuaF | | 1.192 | 0.4000 | 4.76 | 5.00 | -4.9 | 30.0 |
| Benzo[a]pyrene | Ave | 1.082 | 1.024 | 0.4000 | 4.73 | 5.00 | -5.3 | 30.0 |
| Indeno[1,2,3-cd]pyrene | QuaF | | 0.9234 | 0.2000 | 4.20 | 5.00 | -15.9 | 30.0 |
| Dibenz(a,h)anthracene | QuaF | | 0.8154 | 0.2000 | 4.29 | 5.00 | -14.3 | 30.0 |
| Benzo[g,h,i]perylene | QuaF | | 0.9039 | 0.2000 | 4.56 | 5.00 | -8.9 | 30.0 |
| o-Terphenyl | QuaF | | 0.5956 | | 4.61 | 5.00 | -7.8 | 30.0 |

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0709.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 07-Oct-2014 16:25:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 680-0013559-009
Operator ID: RM Instrument ID: CMSY
Sublist:

Method: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 08-Oct-2014 12:15:33 Calib Date: 07-Oct-2014 15:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: webbk Date: 07-Oct-2014 16:47:11

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 3.226 | 3.226 | 0.000 | 98 | 165607 | 2.00 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.969 | 4.969 | 0.000 | 92 | 94839 | 2.00 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.574 | 6.569 | 0.005 | 98 | 159103 | 2.00 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 9.462 | 9.457 | 0.005 | 99 | 174557 | 2.00 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.815 | 10.815 | 0.000 | 99 | 161423 | 2.00 | 2.00 | |
| $ 6 o-Terphenyl | 230 | 7.045 | 7.039 | 0.005 | 90 | 259896 | 5.00 | 4.61 | |
| 7 Naphthalene | 128 | 3.247 | 3.242 | 0.005 | 99 | 406122 | 5.00 | 4.50 | |
| 8 2-Methylnaphthalene | 142 | 3.910 | 3.905 | 0.005 | 87 | 269605 | 5.00 | 4.50 | |
| 9 1-Methylnaphthalene | 142 | 4.001 | 4.001 | 0.000 | 92 | 255518 | 5.00 | 4.60 | |
| 10 1,1'-Biphenyl | 154 | 4.386 | 4.386 | 0.000 | 0 | 330129 | NC | NC | |
| 11 Acenaphthylene | 152 | 4.819 | 4.814 | 0.005 | 98 | 428174 | 5.00 | 4.66 | |
| 12 Acenaphthene | 153 | 5.007 | 5.001 | 0.006 | 93 | 271677 | 5.00 | 4.60 | |
| 14 Fluorene | 166 | 5.558 | 5.558 | 0.000 | 96 | 312840 | 5.00 | 4.80 | |
| 15 Phenanthrene | 178 | 6.601 | 6.595 | 0.006 | 96 | 437180 | 5.00 | 4.59 | |
| 16 Anthracene | 178 | 6.654 | 6.649 | 0.005 | 99 | 452879 | 5.00 | 4.78 | |
| 17 Fluoranthene | 202 | 7.916 | 7.906 | 0.010 | 98 | 485018 | 5.00 | 4.81 | |
| 18 Pyrene | 202 | 8.157 | 8.146 | 0.011 | 98 | 506098 | 5.00 | 4.45 | |
| 19 Benzo[a]anthracene | 228 | 9.451 | 9.446 | 0.005 | 98 | 476618 | 5.00 | 4.67 | |
| 20 Chrysene | 228 | 9.489 | 9.478 | 0.011 | 99 | 459232 | 5.00 | 4.85 | |
| 21 Benzo[b]fluoranthene | 252 | 10.489 | 10.484 | 0.005 | 99 | 459567 | 5.00 | 4.33 | |
| 22 Benzo[k]fluoranthene | 252 | 10.516 | 10.505 | 0.011 | 99 | 481140 | 5.00 | 4.76 | |
| 23 Benzo[a]pyrene | 252 | 10.767 | 10.762 | 0.005 | 98 | 413399 | 5.00 | 4.73 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.810 | 11.800 | 0.010 | 98 | 402969 | 5.00 | 4.20 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.837 | 11.826 | 0.011 | 99 | 329062 | 5.00 | 4.29 | |
| 26 Benzo[g,h,i]perylene | 276 | 12.094 | 12.072 | 0.022 | 99 | 364778 | 5.00 | 4.56 | |

## QC Flag Legend

Processing Flags

NC - Not Calibrated

## Reagents:

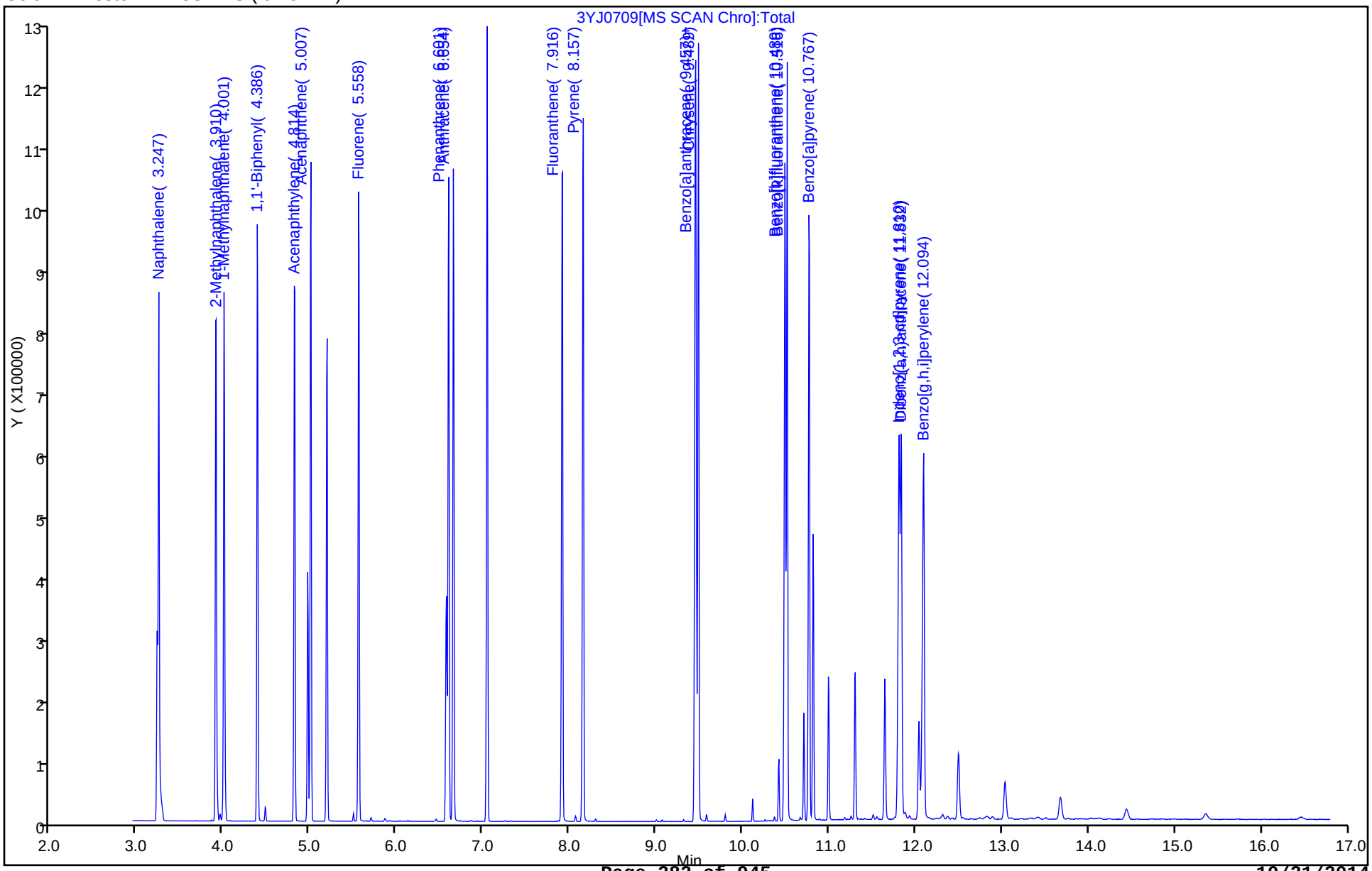
SMLLPAHICVLVI_00029 Amount Added: 1.00 Units: mL

Report Date: 08-Oct-2014 12:15:34 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0709.D | | | | |
| Injection Date: | 07-Oct-2014 16:25:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | ICV | | | Worklist Smp#: | 9 |
| Client ID: | | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | ALS Bottle#: | 9 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Lab Sample ID: CCVIS 680-353689/4 Calibration Date: 10/15/2014 13:05

Instrument ID: CMSY Calib Start Date: 10/07/2014 13:49

GC Column: RXi- 5Sil MS ID: 0.25(mm) Calib End Date: 10/07/2014 16:03

Lab File ID: 2YJ1504.D Conc. Units: ug/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | Ave | 1.091 | 1.151 | 0.7000 | 5.28 | 5.00 | 5.6 | 20.0 |
| 2-Methylnaphthalene | Ave | 0.7234 | 0.7556 | 0.4000 | 5.22 | 5.00 | 4.5 | 20.0 |
| 1-Methylnaphthalene | Ave | 0.6708 | 0.7024 | | 5.24 | 5.00 | 4.7 | 20.0 |
| Acenaphthylene | Ave | 1.938 | 2.019 | 0.9000 | 5.21 | 5.00 | 4.2 | 20.0 |
| Acenaphthene | Ave | 1.245 | 1.275 | 0.9000 | 5.12 | 5.00 | 2.4 | 20.0 |
| Fluorene | Ave | 1.375 | 1.413 | 0.9000 | 5.14 | 5.00 | 2.8 | 20.0 |
| Phenanthrene | Ave | 1.197 | 1.191 | 0.7000 | 4.98 | 5.00 | -0.5 | 20.0 |
| Anthracene | Ave | 1.190 | 1.174 | 0.7000 | 4.93 | 5.00 | -1.4 | 20.0 |
| Fluoranthene | Ave | 1.269 | 1.307 | 0.6000 | 5.15 | 5.00 | 3.0 | 20.0 |
| Pyrene | QuaF | | 1.253 | 0.6000 | 4.81 | 5.00 | -3.9 | 20.0 |
| Benzo[a]anthracene | Ave | 1.170 | 1.124 | 0.7000 | 4.81 | 5.00 | -3.9 | 20.0 |
| Chrysene | QuaF | | 1.086 | 0.7000 | 5.01 | 5.00 | 0.2 | 20.0 |
| Benzo[b]fluoranthene | Ave | 1.315 | 1.238 | 0.4000 | 4.71 | 5.00 | -5.9 | 20.0 |
| Benzo[k]fluoranthene | QuaF | | 1.248 | 0.4000 | 4.99 | 5.00 | -0.3 | 20.0 |
| Benzo[a]pyrene | Ave | 1.082 | 1.089 | 0.4000 | 5.03 | 5.00 | 0.6 | 20.0 |
| Indeno[1,2,3-cd]pyrene | QuaF | | 0.9769 | 0.2000 | 4.45 | 5.00 | -11.1 | 20.0 |
| Dibenz(a,h)anthracene | QuaF | | 0.9185 | 0.2000 | 4.82 | 5.00 | -3.5 | 20.0 |
| Benzo[g,h,i]perylene | QuaF | | 0.9689 | 0.2000 | 4.88 | 5.00 | -2.4 | 20.0 |
| o-Terphenyl | QuaF | | 0.6732 | | 5.20 | 5.00 | 4.0 | 20.0 |

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1504.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 15-Oct-2014 13:05:30 ALS Bottle#: 2 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 680-0013789-004
Operator ID: RM Instrument ID: CMSY
Sublist: chrom-8270D_LLPAH_MSY*sub5

Method: \\SAVCHROM\ChromData\CMSY\20141015-13789.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 16-Oct-2014 08:46:57 Calib Date: 07-Oct-2014 15:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: webbk Date: 15-Oct-2014 13:41:43

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.856 | 2.856 | 0.000 | 98 | 129074 | 2.00 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.546 | 4.546 | 0.000 | 91 | 74842 | 2.00 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.124 | 6.124 | 0.000 | 98 | 127647 | 2.00 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 8.996 | 8.996 | 0.000 | 99 | 139055 | 2.00 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.344 | 10.344 | 0.000 | 99 | 133380 | 2.00 | 2.00 | |
| $ 6 o-Terphenyl | 230 | 6.605 | 6.605 | 0.000 | 91 | 234037 | 5.00 | 5.20 | |
| 7 Naphthalene | 128 | 2.877 | 2.877 | 0.000 | 99 | 371567 | 5.00 | 5.28 | |
| 8 2-Methylnaphthalene | 142 | 3.514 | 3.514 | 0.000 | 86 | 243816 | 5.00 | 5.22 | |
| 9 1-Methylnaphthalene | 142 | 3.605 | 3.605 | 0.000 | 92 | 226668 | 5.00 | 5.24 | |
| 11 Acenaphthylene | 152 | 4.396 | 4.396 | 0.000 | 98 | 377787 | 5.00 | 5.21 | |
| 12 Acenaphthene | 153 | 4.584 | 4.584 | 0.000 | 94 | 238598 | 5.00 | 5.12 | |
| 14 Fluorene | 166 | 5.129 | 5.129 | 0.000 | 96 | 264393 | 5.00 | 5.14 | |
| 15 Phenanthrene | 178 | 6.151 | 6.151 | 0.000 | 96 | 380166 | 5.00 | 4.98 | |
| 16 Anthracene | 178 | 6.204 | 6.204 | 0.000 | 99 | 374489 | 5.00 | 4.93 | |
| 17 Fluoranthene | 202 | 7.445 | 7.445 | 0.000 | 98 | 417026 | 5.00 | 5.15 | |
| 18 Pyrene | 202 | 7.680 | 7.680 | 0.000 | 97 | 435506 | 5.00 | 4.81 | |
| 19 Benzo[a]anthracene | 228 | 8.991 | 8.991 | 0.000 | 98 | 390857 | 5.00 | 4.81 | |
| 20 Chrysene | 228 | 9.023 | 9.023 | 0.000 | 99 | 377659 | 5.00 | 5.01 | |
| 21 Benzo[b]fluoranthene | 252 | 10.023 | 10.023 | 0.000 | 99 | 412787 | 5.00 | 4.71 | |
| 22 Benzo[k]fluoranthene | 252 | 10.050 | 10.050 | 0.000 | 98 | 416259 | 5.00 | 4.99 | |
| 23 Benzo[a]pyrene | 252 | 10.296 | 10.296 | 0.000 | 98 | 363102 | 5.00 | 5.03 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.200 | 11.200 | 0.000 | 99 | 339612 | 5.00 | 4.45 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.227 | 11.227 | 0.000 | 98 | 306261 | 5.00 | 4.82 | |
| 26 Benzo[g,h,i]perylene | 276 | 11.424 | 11.424 | 0.000 | 98 | 323080 | 5.00 | 4.88 | |

## Reagents:

SMLLPAH5.0LVI_00022 Amount Added: 1.00 Units: mL

Report Date: 16-Oct-2014 08:46:58 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1504.D

Injection Date: 15-Oct-2014 13:05:30 Instrument ID: CMSY Operator ID: RM

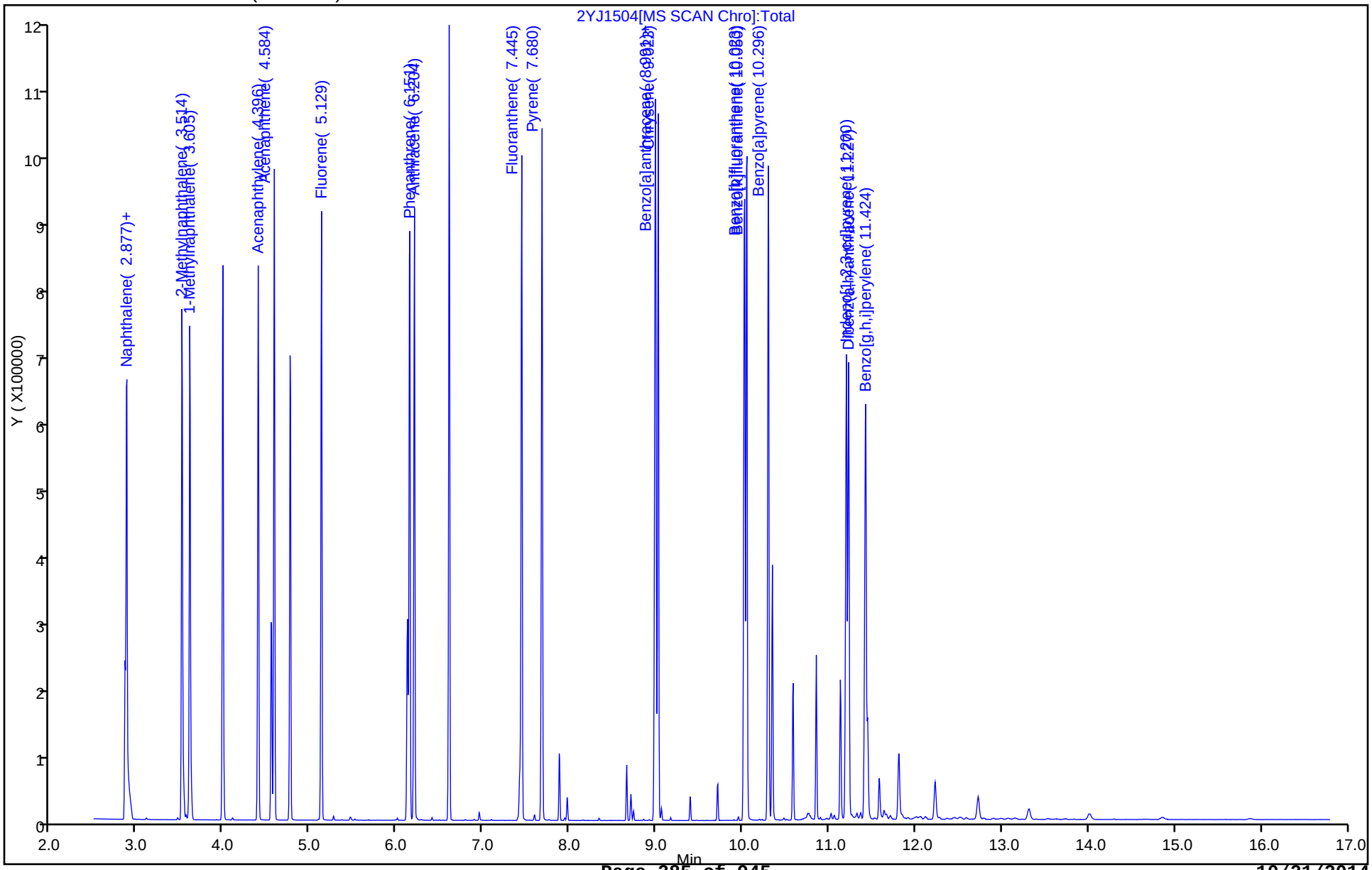
Lims ID: CCVIS Worklist Smp#: 4

Client ID:

Injection Vol: 2.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8270D_LLPAH_MSY Limit Group: 8270D_LL_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Lab Sample ID: CCVIS 680-353862/2 Calibration Date: 10/16/2014 09:29

Instrument ID: CMSY Calib Start Date: 10/07/2014 13:49

GC Column: RXi- 5Sil MS ID: 0.25(mm) Calib End Date: 10/07/2014 16:03

Lab File ID: 1YJ1602.D Conc. Units: ug/mL

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---|---|---|---|---|---|---|---|---|
| Naphthalene | Ave | 1.091 | 1.146 | 0.7000 | 5.25 | 5.00 | 5.0 | 20.0 |
| 2-Methylnaphthalene | Ave | 0.7234 | 0.7501 | 0.4000 | 5.18 | 5.00 | 3.7 | 20.0 |
| 1-Methylnaphthalene | Ave | 0.6708 | 0.6873 | | 5.12 | 5.00 | 2.5 | 20.0 |
| Acenaphthylene | Ave | 1.938 | 2.039 | 0.9000 | 5.26 | 5.00 | 5.2 | 20.0 |
| Acenaphthene | Ave | 1.245 | 1.284 | 0.9000 | 5.16 | 5.00 | 3.1 | 20.0 |
| Fluorene | Ave | 1.375 | 1.422 | 0.9000 | 5.17 | 5.00 | 3.4 | 20.0 |
| Phenanthrene | Ave | 1.197 | 1.171 | 0.7000 | 4.89 | 5.00 | -2.1 | 20.0 |
| Anthracene | Ave | 1.190 | 1.165 | 0.7000 | 4.90 | 5.00 | -2.1 | 20.0 |
| Fluoranthene | Ave | 1.269 | 1.248 | 0.6000 | 4.92 | 5.00 | -1.7 | 20.0 |
| Pyrene | QuaF | | 1.335 | 0.6000 | 5.12 | 5.00 | 2.4 | 20.0 |
| Benzo[a]anthracene | Ave | 1.170 | 1.167 | 0.7000 | 4.99 | 5.00 | -0.2 | 20.0 |
| Chrysene | QuaF | | 1.055 | 0.7000 | 4.86 | 5.00 | -2.8 | 20.0 |
| Benzo[b]fluoranthene | Ave | 1.315 | 1.222 | 0.4000 | 4.65 | 5.00 | -7.1 | 20.0 |
| Benzo[k]fluoranthene | QuaF | | 1.311 | 0.4000 | 5.24 | 5.00 | 4.9 | 20.0 |
| Benzo[a]pyrene | Ave | 1.082 | 1.086 | 0.4000 | 5.02 | 5.00 | 0.4 | 20.0 |
| Indeno[1,2,3-cd]pyrene | QuaF | | 0.9297 | 0.2000 | 4.23 | 5.00 | -15.4 | 20.0 |
| Dibenz(a,h)anthracene | QuaF | | 0.9183 | 0.2000 | 4.82 | 5.00 | -3.5 | 20.0 |
| Benzo[g,h,i]perylene | QuaF | | 0.9622 | 0.2000 | 4.85 | 5.00 | -3.1 | 20.0 |
| o-Terphenyl | QuaF | | 0.7506 | | 5.79 | 5.00 | 15.7 | 20.0 |

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1602.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 16-Oct-2014 09:29:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 680-0013814-002
Operator ID: RM Instrument ID: CMSY
Sublist: chrom-8270D_LLPAH_MSY*sub5

Method: \\SAVCHROM\ChromData\CMSY\20141016-13814.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 16-Oct-2014 11:52:28 Calib Date: 07-Oct-2014 15:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: webbk Date: 16-Oct-2014 09:53:22

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.803 | 2.803 | 0.000 | 98 | 126099 | 2.00 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.487 | 4.487 | 0.000 | 91 | 70268 | 2.00 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.054 | 6.054 | 0.000 | 98 | 117518 | 2.00 | 2.00 | s |
| * 4 Chrysene-d12 | 240 | 8.927 | 8.927 | 0.000 | 99 | 113158 | 2.00 | 2.00 | s |
| * 5 Perylene-d12 | 264 | 10.269 | 10.269 | 0.000 | 98 | 96125 | 2.00 | 2.00 | s |
| $ 6 o-Terphenyl | 230 | 6.541 | 6.541 | 0.000 | 91 | 212330 | 5.00 | 5.79 | |
| 7 Naphthalene | 128 | 2.819 | 2.819 | 0.000 | 99 | 361153 | 5.00 | 5.25 | |
| 8 2-Methylnaphthalene | 142 | 3.455 | 3.455 | 0.000 | 86 | 236469 | 5.00 | 5.18 | |
| 9 1-Methylnaphthalene | 142 | 3.546 | 3.546 | 0.000 | 92 | 216672 | 5.00 | 5.12 | |
| 11 Acenaphthylene | 152 | 4.338 | 4.338 | 0.000 | 98 | 358245 | 5.00 | 5.26 | |
| 12 Acenaphthene | 153 | 4.519 | 4.519 | 0.000 | 93 | 225585 | 5.00 | 5.16 | |
| 14 Fluorene | 166 | 5.065 | 5.065 | 0.000 | 96 | 249726 | 5.00 | 5.17 | |
| 15 Phenanthrene | 178 | 6.081 | 6.081 | 0.000 | 96 | 344156 | 5.00 | 4.89 | |
| 16 Anthracene | 178 | 6.135 | 6.135 | 0.000 | 99 | 342402 | 5.00 | 4.90 | |
| 17 Fluoranthene | 202 | 7.376 | 7.376 | 0.000 | 98 | 366516 | 5.00 | 4.92 | |
| 18 Pyrene | 202 | 7.606 | 7.606 | 0.000 | 97 | 377540 | 5.00 | 5.12 | |
| 19 Benzo[a]anthracene | 228 | 8.916 | 8.916 | 0.000 | 98 | 330259 | 5.00 | 4.99 | |
| 20 Chrysene | 228 | 8.953 | 8.953 | 0.000 | 99 | 298361 | 5.00 | 4.86 | |
| 21 Benzo[b]fluoranthene | 252 | 9.948 | 9.948 | 0.000 | 99 | 293692 | 5.00 | 4.65 | |
| 22 Benzo[k]fluoranthene | 252 | 9.975 | 9.975 | 0.000 | 99 | 315146 | 5.00 | 5.24 | |
| 23 Benzo[a]pyrene | 252 | 10.221 | 10.221 | 0.000 | 98 | 261030 | 5.00 | 5.02 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.109 | 11.109 | 0.000 | 99 | 262998 | 5.00 | 4.23 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.136 | 11.136 | 0.000 | 97 | 220679 | 5.00 | 4.82 | |
| 26 Benzo[g,h,i]perylene | 276 | 11.323 | 11.323 | 0.000 | 98 | 231231 | 5.00 | 4.85 | |

## QC Flag Legend

Processing Flags
s - Failed ISTD Recovery Test

## Reagents:

SMLLPAH5.0LVI_00022 Amount Added: 1.00 Units: mL

Report Date: 16-Oct-2014 11:52:28 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1602.D

Injection Date: 16-Oct-2014 09:29:30 Instrument ID: CMSY Operator ID: RM

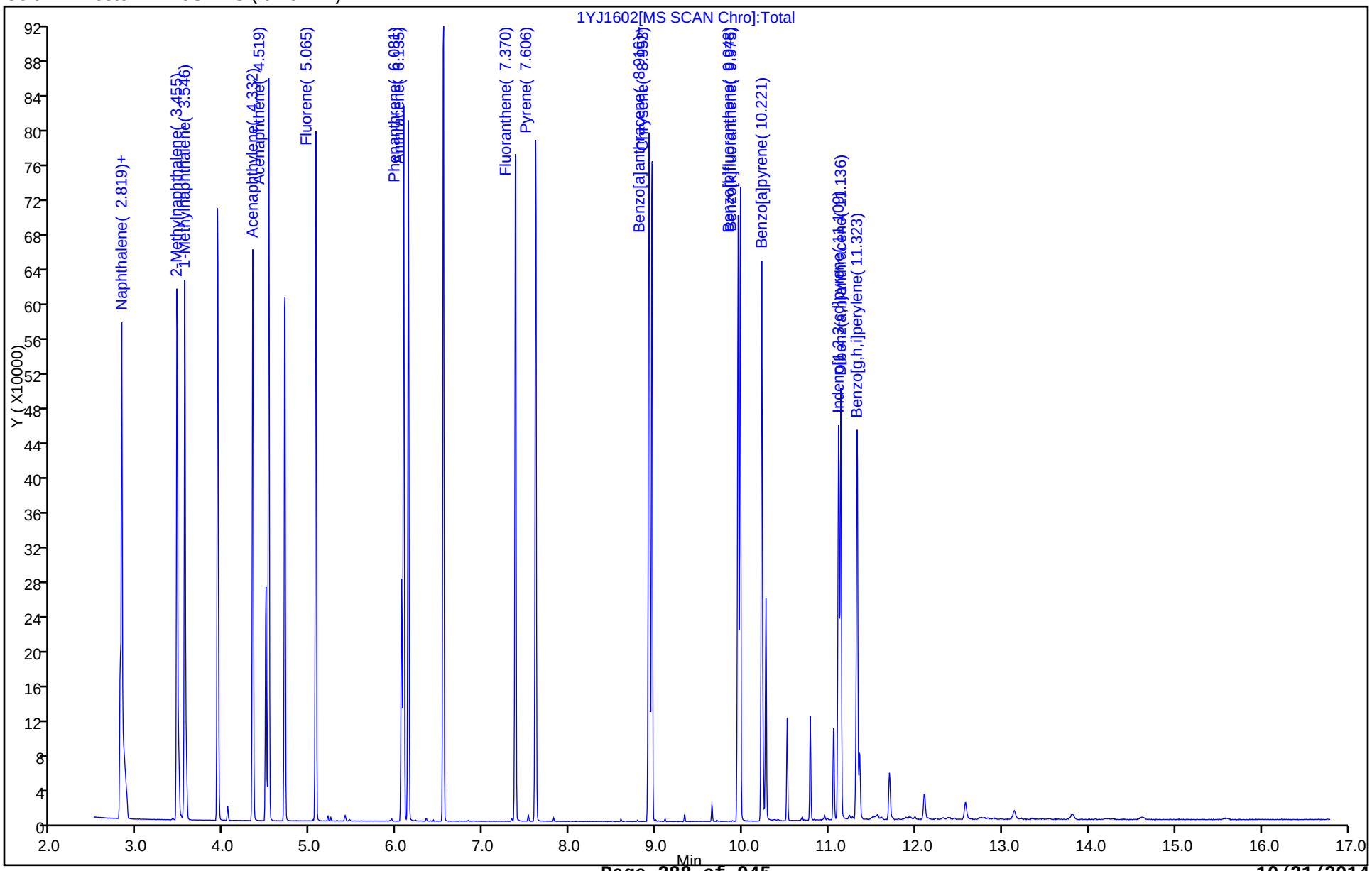
Lims ID: CCVIS Worklist Smp#: 2

Client ID:

Injection Vol: 2.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8270D_LLPAH_MSY Limit Group: 8270D_LL_PAH

Column: Restek RXi-5Sil MS ( 0.25 mm)



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0701.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 07-Oct-2014 13:30:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: DFTPP
Misc. Info.: 680-0013559-001
Operator ID: RM Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 08-Oct-2014 12:15:24 Calib Date: 07-Oct-2014 15:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: webbk Date: 07-Oct-2014 13:45:21

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 27 DFTPP | | | | | | | | | |
| 28 4,4'-DDE | 246 | 5.333 | 5.333 | 0.000 | 89 | 548 | | NR | 7 |
| 29 4,4'-DDD | 235 | 5.611 | 5.611 | 0.000 | 98 | 9184 | | NR | 7 |
| 30 4,4'-DDT | 235 | 5.868 | 5.868 | 0.000 | 97 | 116474 | NR | NR | 7 |

## QC Flag Legend

Processing Flags
NR - Missing Quant Standard
7 - Failed Limit of Detection

## Reagents:

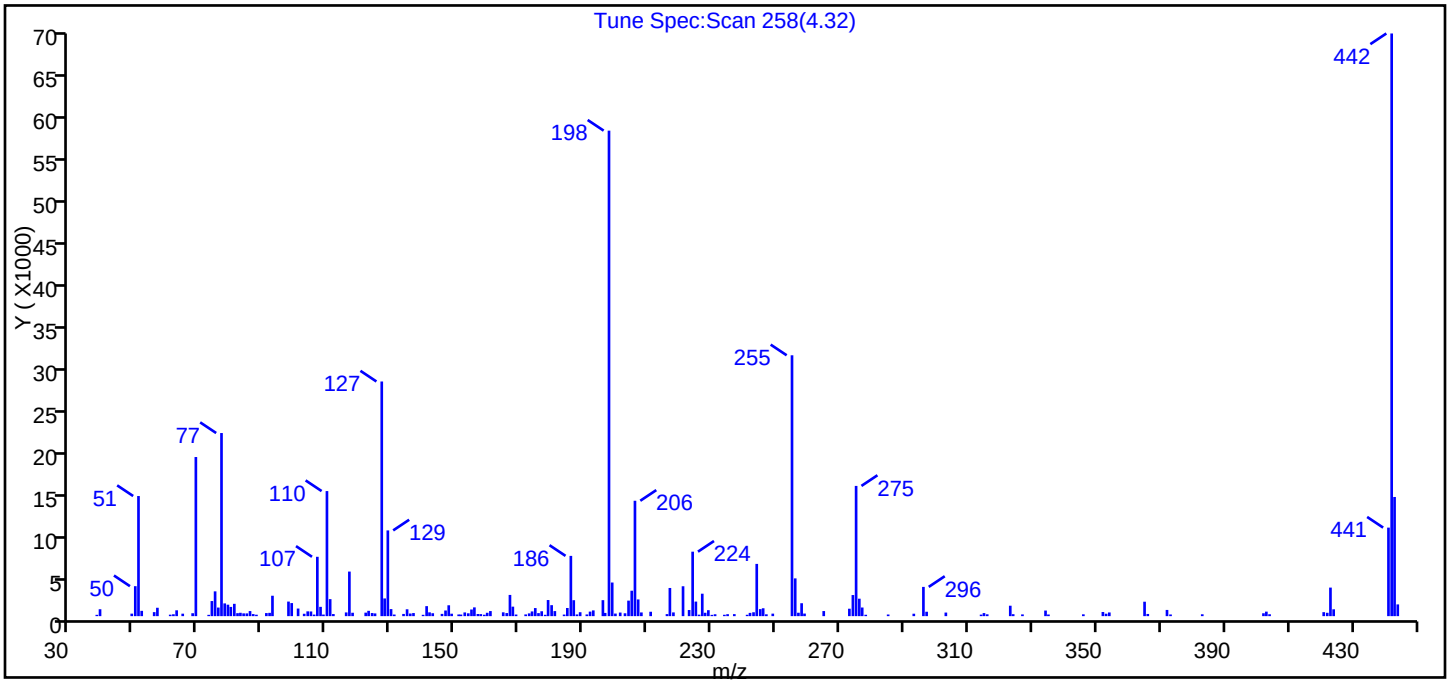
SM-LLTUNE_00074 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0701.D
Injection Date: 07-Oct-2014 13:30:30 Instrument ID: CMSY
Lims ID: DFTPP
Client ID:
Operator ID: RM ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: 8270D_LLPAH_MSY Limit Group: 8270D_LL_PAH
Tune Method: DFTPP Method 525.2, BP 442

27 DFTPP




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 442 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 442 | 20.60 |
| 68 | Less than 2.00% of mass 69 | 0.50 ( 1.80) |
| 69 | Present | 27.30 |
| 70 | Less than 2.00% of mass 69 | 0.00 ( 0.00) |
| 127 | 10.00 - 80.00% of mass 442 | 40.30 |
| 197 | Less than 2.00% of mass 198 | 0.60 ( 0.70) |
| 198 | Greater than 50.00% of mass 442 | 83.30 |
| 199 | 5.00 - 9.00% of mass 198 | 5.80 ( 6.90) |
| 275 | 10.00 - 60.00% of mass 442 | 22.40 |
| 365 | Greater than 1.00% of mass 442 | 2.50 |
| 441 | Present, but less than mass 443 | 15.20 ( 74.30) |
| 443 | 15.00 - 24.00% of mass 442 | 20.50 |

Data File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0701.D\8270D_LLPAH_MSY.rslt\spectra.d
Injection Date: 07-Oct-2014 13:30:30
Spectrum: Tune Spec:Scan 258(4.32)
Base Peak: 442.10
Minimum % Base Peak: 0
Number of Points: 187

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 38.10 | 157 | 116.90 | 5307 | 180.00 | 1307 | 249.00 | 299 |
| 39.10 | 823 | 117.90 | 404 | 181.00 | 601 | 255.00 | 31056 |
| 49.00 | 298 | 122.00 | 415 | 183.90 | 188 | 256.00 | 4495 |
| 50.10 | 3568 | 122.90 | 634 | 184.90 | 970 | 257.00 | 405 |
| 51.10 | 14300 | 124.00 | 370 | 186.00 | 7174 | 258.00 | 1538 |
| 52.10 | 632 | 124.90 | 325 | 186.90 | 1897 | 258.90 | 307 |
| 56.00 | 478 | 127.00 | 27936 | 187.90 | 204 | 264.90 | 606 |
| 57.00 | 998 | 127.90 | 2107 | 188.90 | 468 | 272.90 | 884 |
| 61.00 | 175 | 128.90 | 10207 | 191.00 | 202 | 274.00 | 2512 |
| 62.00 | 223 | 129.90 | 839 | 192.00 | 540 | 275.00 | 15504 |
| 63.00 | 695 | 130.90 | 191 | 193.00 | 685 | 276.00 | 2077 |
| 64.90 | 294 | 133.80 | 264 | 196.00 | 1903 | 276.90 | 1028 |
| 68.00 | 346 | 134.90 | 818 | 196.70 | 382 | 278.00 | 165 |
| 69.00 | 18944 | 135.90 | 313 | 197.90 | 57800 | 285.00 | 195 |
| 73.00 | 156 | 136.90 | 368 | 198.90 | 4003 | 293.00 | 289 |
| 74.00 | 1797 | 139.90 | 159 | 199.90 | 307 | 296.00 | 3482 |
| 75.00 | 2951 | 141.00 | 1192 | 201.40 | 427 | 297.00 | 524 |
| 76.00 | 1023 | 141.90 | 452 | 202.90 | 341 | 303.00 | 426 |
| 77.00 | 21800 | 142.90 | 347 | 204.00 | 1847 | 314.00 | 182 |
| 78.00 | 1518 | 145.80 | 270 | 205.00 | 3027 | 314.90 | 365 |
| 79.00 | 1364 | 146.90 | 672 | 206.00 | 13737 | 315.90 | 218 |
| 79.90 | 1099 | 147.90 | 1294 | 207.00 | 1989 | 323.10 | 1241 |
| 81.00 | 1467 | 148.80 | 290 | 208.00 | 441 | 324.00 | 233 |
| 82.00 | 354 | 151.00 | 198 | 210.90 | 523 | 326.90 | 207 |
| 82.90 | 400 | 151.70 | 187 | 216.00 | 241 | 334.10 | 665 |
| 83.90 | 331 | 152.90 | 441 | 216.90 | 3354 | 335.00 | 195 |
| 84.90 | 328 | 154.00 | 338 | 218.00 | 445 | 345.90 | 217 |
| 85.90 | 602 | 155.00 | 789 | 221.00 | 3558 | 352.00 | 494 |
| 86.90 | 246 | 155.90 | 1044 | 222.90 | 728 | 353.00 | 288 |
| 87.90 | 171 | 157.00 | 255 | 224.00 | 7675 | 354.00 | 439 |
| 91.00 | 367 | 157.90 | 241 | 225.00 | 1733 | 365.00 | 1718 |
| 92.00 | 392 | 159.00 | 168 | 226.00 | 176 | 366.00 | 260 |
| 92.90 | 2429 | 159.90 | 401 | 227.00 | 2672 | 372.00 | 739 |

Report Date: 08-Oct-2014 12:15:25 Chrom Revision: 2.2 18-Aug-2014 12:17:36
Data File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0701.D\8270D_LLPAH_MSY.rslt\spectra.d
Injection Date: 07-Oct-2014 13:30:30
Spectrum: Tune Spec:Scan 258(4.32)
Base Peak: 442.10
Minimum % Base Peak: 0
Number of Points: 187

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 97.90 | 1734 | 160.90 | 604 | 227.90 | 401 | 373.10 | 199 |
| 98.90 | 1555 | 164.90 | 455 | 228.90 | 710 | 383.00 | 222 |
| 100.90 | 906 | 166.00 | 366 | 230.00 | 153 | 402.10 | 342 |
| 102.80 | 284 | 167.00 | 2526 | 231.00 | 225 | 403.00 | 538 |
| 103.90 | 570 | 167.90 | 1130 | 233.90 | 165 | 404.00 | 224 |
| 104.90 | 557 | 168.90 | 192 | 234.90 | 234 | 420.90 | 474 |
| 105.90 | 186 | 171.90 | 205 | 237.00 | 240 | 422.00 | 399 |
| 106.90 | 7066 | 173.00 | 327 | 241.00 | 162 | 423.00 | 3399 |
| 107.90 | 1106 | 173.90 | 561 | 241.90 | 388 | 424.00 | 815 |
| 108.80 | 190 | 174.90 | 961 | 243.00 | 463 | 441.10 | 10540 |
| 109.90 | 14890 | 175.90 | 360 | 244.00 | 6220 | 442.10 | 69368 |
| 110.90 | 2025 | 176.90 | 582 | 245.10 | 836 | 443.00 | 14186 |
| 111.90 | 249 | 178.00 | 160 | 246.00 | 939 | 444.00 | 1398 |
| 115.90 | 442 | 178.90 | 1918 | 247.00 | 218 | | |

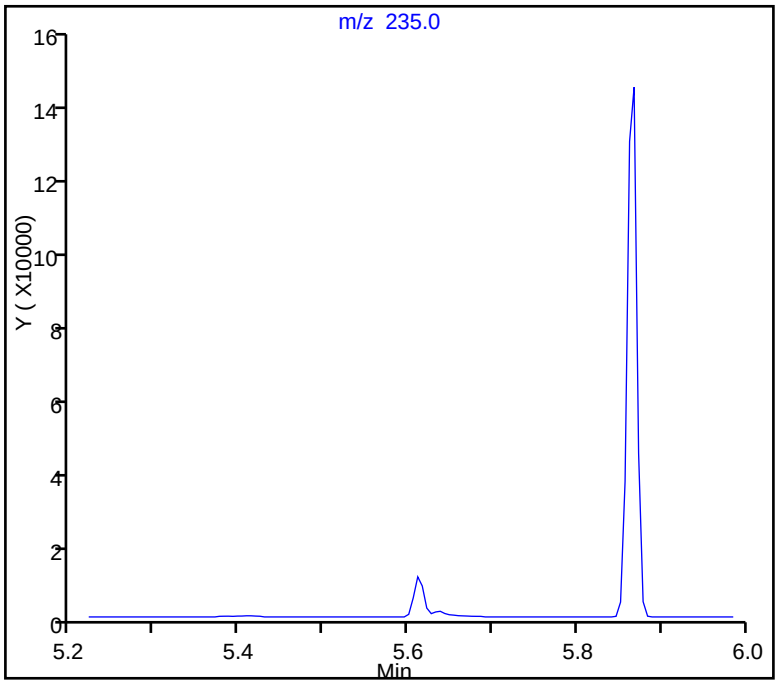
Report Date: 08-Oct-2014 12:15:25 Chrom Revision: 2.2 18-Aug-2014 12:17:36

Breakdown Report

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0701.D | | | | |
| Injection Date: | 07-Oct-2014 13:30:30 | Instrument ID: | CMSY | | |
| Lims ID: | DFTPP | | | | |
| Client ID: | | | | | |
| Operator ID: | RM | ALS Bottle#: | 1 | Worklist Smp#: | 1 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

30 4,4'-DDT, Detector: MS SCAN




SW-846 Method

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

30 4,4'-DDT, Area = 116474
29 4,4'-DDD, Area = 9184
28 4,4'-DDE, Area = 548

%Breakdown: 7.71%, Max Limit: 20.00%
Passed

TestAmerica Savannah
Target Compound Quantitation Report

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1503.D | | | | |
| Lims ID: | DFTPP | | | | |
| Client ID: | | | | | |
| Sample Type: | DFTPP | | | | |
| Inject. Date: | 15-Oct-2014 12:48:30 | ALS Bottle#: | 1 | Worklist Smp#: | 3 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Sample Info: | DFTPP | | | | |
| Misc. Info.: | 680-0013789-003 | | | | |
| Operator ID: | RM | Instrument ID: | CMSY | | |
| Method: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\8270D_LLPAH_MSY.m | | | | |
| Limit Group: | 8270D_LL_PAH | | | | |
| Last Update: | 16-Oct-2014 08:46:56 | Calib Date: | 07-Oct-2014 15:41:30 | | |
| Integrator: | RTE | ID Type: | Deconvolution ID | | |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration | | |
| Last ICal File: | \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D | | | | |
| Column 1 : | Restek RXi-5Sil MS ( 0.25 mm) | | Det: MS SCAN | | |
| Process Host: | XAWRK010 | | | | |
| First Level Reviewer: waldorfj | | Date: | 15-Oct-2014 13:27:20 | | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 27 DFTPP | | | | | | | | | |
| 28 4,4'-DDE | 246 | 4.958 | 4.958 | 0.000 | 90 | 392 | | NR | 7 |
| 29 4,4'-DDD | 235 | 5.247 | 5.247 | 0.000 | 6 | 2670 | | NR | 7 |
| 30 4,4'-DDT | 235 | 5.471 | 5.471 | 0.000 | 97 | 112761 | NR | NR | 7 |

## QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

## Reagents:

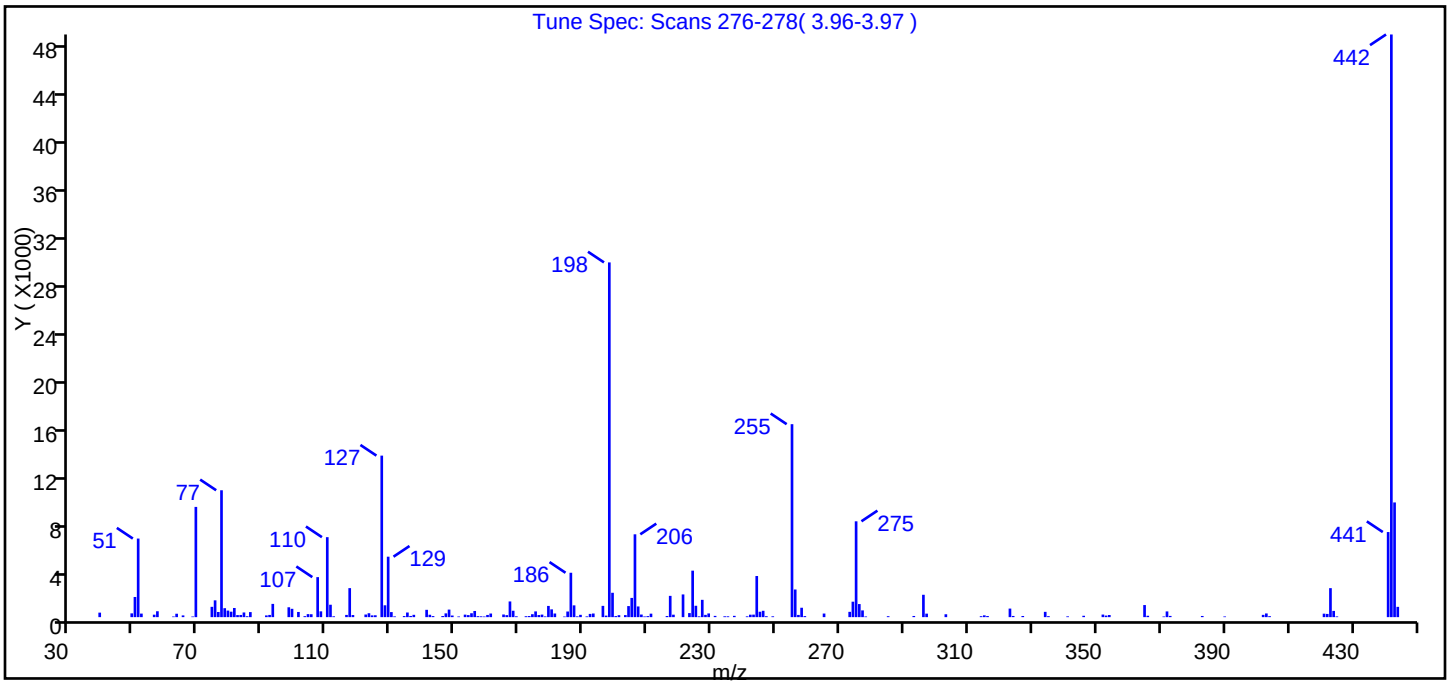
SM-LLTUNE_00079 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1503.D | | | | |
| Injection Date: | 15-Oct-2014 12:48:30 | Instrument ID: | CMSY | | |
| Lims ID: | DFTPP | | | | |
| Client ID: | | | | | |
| Operator ID: | RM | ALS Bottle#: | 1 | Worklist Smp#: | 3 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Tune Method: | DFTPP Method 525.2, BP 442 | | | | |

27 DFTPP




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 442 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 442 | 13.50 |
| 68 | Less than 2.00% of mass 69 | 0.10 ( 0.60) |
| 69 | Present | 18.90 |
| 70 | Less than 2.00% of mass 69 | 0.00 ( 0.00) |
| 127 | 10.00 - 80.00% of mass 442 | 27.70 |
| 197 | Less than 2.00% of mass 198 | 0.30 ( 0.40) |
| 198 | Greater than 50.00% of mass 442 | 60.90 |
| 199 | 5.00 - 9.00% of mass 198 | 4.20 ( 6.90) |
| 275 | 10.00 - 60.00% of mass 442 | 16.40 |
| 365 | Greater than 1.00% of mass 442 | 2.10 |
| 441 | Present, but less than mass 443 | 14.60 ( 74.20) |
| 443 | 15.00 - 24.00% of mass 442 | 19.70 |

Data File: \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1503.D\8270D_LLPAH_MSY.rslt\spectra.d
Injection Date: 15-Oct-2014 12:48:30
Spectrum: Tune Spec: Scans 276-278( 3.96-3.97 )
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 183

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 39.00 | 376 | 127.00 | 13481 | 189.00 | 193 | 259.00 | 86 |
| 49.00 | 316 | 128.00 | 989 | 191.00 | 61 | 265.00 | 300 |
| 50.00 | 1683 | 129.00 | 5046 | 192.00 | 271 | 273.00 | 443 |
| 51.00 | 6559 | 130.00 | 422 | 193.00 | 303 | 274.00 | 1290 |
| 52.00 | 297 | 131.00 | 62 | 196.00 | 941 | 275.00 | 7999 |
| 56.00 | 206 | 134.00 | 89 | 197.00 | 126 | 276.00 | 1092 |
| 57.00 | 492 | 135.00 | 387 | 198.00 | 29608 | 277.00 | 563 |
| 62.00 | 53 | 136.00 | 100 | 199.00 | 2034 | 278.00 | 55 |
| 63.00 | 285 | 137.00 | 194 | 200.00 | 88 | 285.00 | 78 |
| 65.00 | 145 | 141.00 | 611 | 201.00 | 163 | 293.00 | 97 |
| 68.00 | 53 | 142.00 | 200 | 203.00 | 170 | 296.00 | 1867 |
| 69.00 | 9201 | 143.00 | 89 | 204.00 | 923 | 297.00 | 292 |
| 74.00 | 860 | 146.00 | 92 | 205.00 | 1605 | 303.00 | 241 |
| 75.00 | 1403 | 147.00 | 315 | 206.00 | 6914 | 314.00 | 79 |
| 76.00 | 430 | 148.00 | 630 | 207.00 | 892 | 315.00 | 151 |
| 77.00 | 10590 | 149.00 | 134 | 208.00 | 217 | 316.00 | 92 |
| 78.00 | 747 | 151.00 | 55 | 209.00 | 55 | 323.00 | 714 |
| 79.00 | 548 | 153.00 | 209 | 210.00 | 86 | 324.00 | 99 |
| 80.00 | 455 | 154.00 | 170 | 211.00 | 291 | 327.00 | 96 |
| 81.00 | 764 | 155.00 | 326 | 216.00 | 92 | 334.00 | 442 |
| 82.00 | 173 | 156.00 | 515 | 217.00 | 1776 | 335.00 | 82 |
| 83.00 | 182 | 157.00 | 82 | 218.00 | 205 | 341.00 | 65 |
| 84.00 | 391 | 158.00 | 67 | 221.00 | 1896 | 346.00 | 114 |
| 85.00 | 76 | 159.00 | 52 | 223.00 | 339 | 352.00 | 215 |
| 86.00 | 421 | 160.00 | 183 | 224.00 | 3880 | 353.00 | 131 |
| 91.00 | 144 | 161.00 | 302 | 225.00 | 949 | 354.00 | 178 |
| 92.00 | 184 | 165.00 | 221 | 226.00 | 65 | 365.00 | 1009 |
| 93.00 | 1106 | 166.00 | 168 | 227.00 | 1445 | 366.00 | 115 |
| 98.00 | 824 | 167.00 | 1310 | 228.00 | 190 | 371.00 | 53 |
| 99.00 | 695 | 168.00 | 533 | 229.00 | 309 | 372.00 | 478 |
| 101.00 | 432 | 169.00 | 69 | 231.00 | 105 | 373.00 | 103 |
| 103.00 | 83 | 172.00 | 77 | 234.00 | 70 | 383.00 | 98 |
| 104.00 | 251 | 173.00 | 92 | 235.00 | 68 | 390.00 | 57 |

Report Date: 16-Oct-2014 08:46:56 Chrom Revision: 2.2 18-Aug-2014 12:17:36
Data File: \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1503.D\8270D_LLPAH_MSY.rslt\spectra.d
Injection Date: 15-Oct-2014 12:48:30
Spectrum: Tune Spec: Scans 276-278( 3.96-3.97 )
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 183

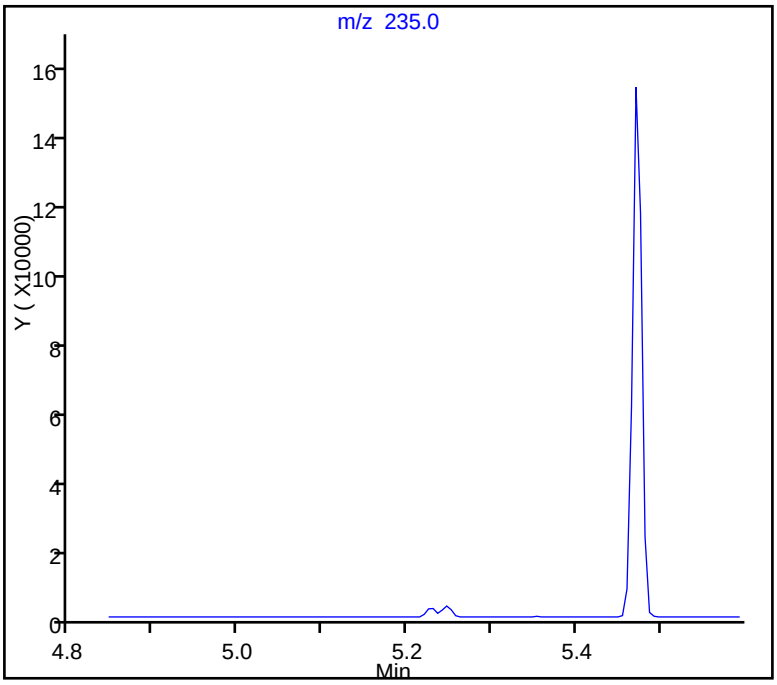
| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 105.00 | 243 | 174.00 | 245 | 237.00 | 108 | 402.00 | 191 |
| 107.00 | 3340 | 175.00 | 479 | 241.00 | 66 | 403.00 | 309 |
| 108.00 | 485 | 176.00 | 174 | 242.00 | 205 | 404.00 | 82 |
| 110.00 | 6675 | 177.00 | 212 | 243.00 | 210 | 421.00 | 289 |
| 111.00 | 1036 | 178.00 | 59 | 244.00 | 3433 | 422.00 | 269 |
| 112.00 | 69 | 179.00 | 936 | 245.00 | 450 | 423.00 | 2420 |
| 116.00 | 186 | 180.00 | 650 | 246.00 | 530 | 424.00 | 519 |
| 117.00 | 2422 | 181.00 | 303 | 247.00 | 77 | 425.00 | 60 |
| 118.00 | 175 | 184.00 | 50 | 249.00 | 69 | 441.00 | 7102 |
| 122.00 | 219 | 185.00 | 470 | 255.00 | 16106 | 442.00 | 48632 |
| 123.00 | 327 | 186.00 | 3705 | 256.00 | 2308 | 443.00 | 9573 |
| 124.00 | 147 | 187.00 | 983 | 257.00 | 185 | 444.00 | 859 |
| 125.00 | 156 | 188.00 | 64 | 258.00 | 785 | | |

Breakdown Report

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1503.D | | | | |
| Injection Date: | 15-Oct-2014 12:48:30 | Instrument ID: | CMSY | | |
| Lims ID: | DFTPP | | | | |
| Client ID: | | | | | |
| Operator ID: | RM | ALS Bottle#: | 1 | Worklist Smp#: | 3 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

30 4,4'-DDT, Detector: MS SCAN




SW-846 Method

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

30 4,4'-DDT, Area = 112761
29 4,4'-DDD, Area = 2670
28 4,4'-DDE, Area = 392

%Breakdown: 2.64%, Max Limit: 20.00%
Passed

TestAmerica Savannah
Target Compound Quantitation Report

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1601.D | | | | |
| Lims ID: | DFTPP | | | | |
| Client ID: | | | | | |
| Sample Type: | DFTPP | | | | |
| Inject. Date: | 16-Oct-2014 09:11:30 | ALS Bottle#: | 1 | Worklist Smp#: | 1 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Sample Info: | DFTPP | | | | |
| Misc. Info.: | 680-0013814-001 | | | | |
| Operator ID: | RM | Instrument ID: | CMSY | | |
| Method: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\8270D_LLPAH_MSY.m | | | | |
| Limit Group: | 8270D_LL_PAH | | | | |
| Last Update: | 17-Oct-2014 08:59:05 | Calib Date: | 07-Oct-2014 15:41:30 | | |
| Integrator: | RTE | ID Type: | Deconvolution ID | | |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration | | |
| Last ICal File: | \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D | | | | |
| Column 1 : | Restek RXi-5Sil MS ( 0.25 mm) | | Det: MS SCAN | | |
| Process Host: | XAWRK009 | | | | |
| First Level Reviewer: webbk | | Date: | 17-Oct-2014 08:59:05 | | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|---|
| 27 DFTPP | | | | | | | | | |
| 28 4,4'-DDE | 246 | 4.888 | 4.888 | 0.000 | 86 | 356 | | NR | 7 |
| 29 4,4'-DDD | 235 | 5.177 | 5.177 | 0.000 | 95 | 2508 | | NR | 7 |
| 30 4,4'-DDT | 235 | 5.402 | 5.402 | 0.000 | 97 | 101596 | NR | NR | 7 |

## QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

## Reagents:

SM-LLTUNE_00079 Amount Added: 1.00 Units: mL

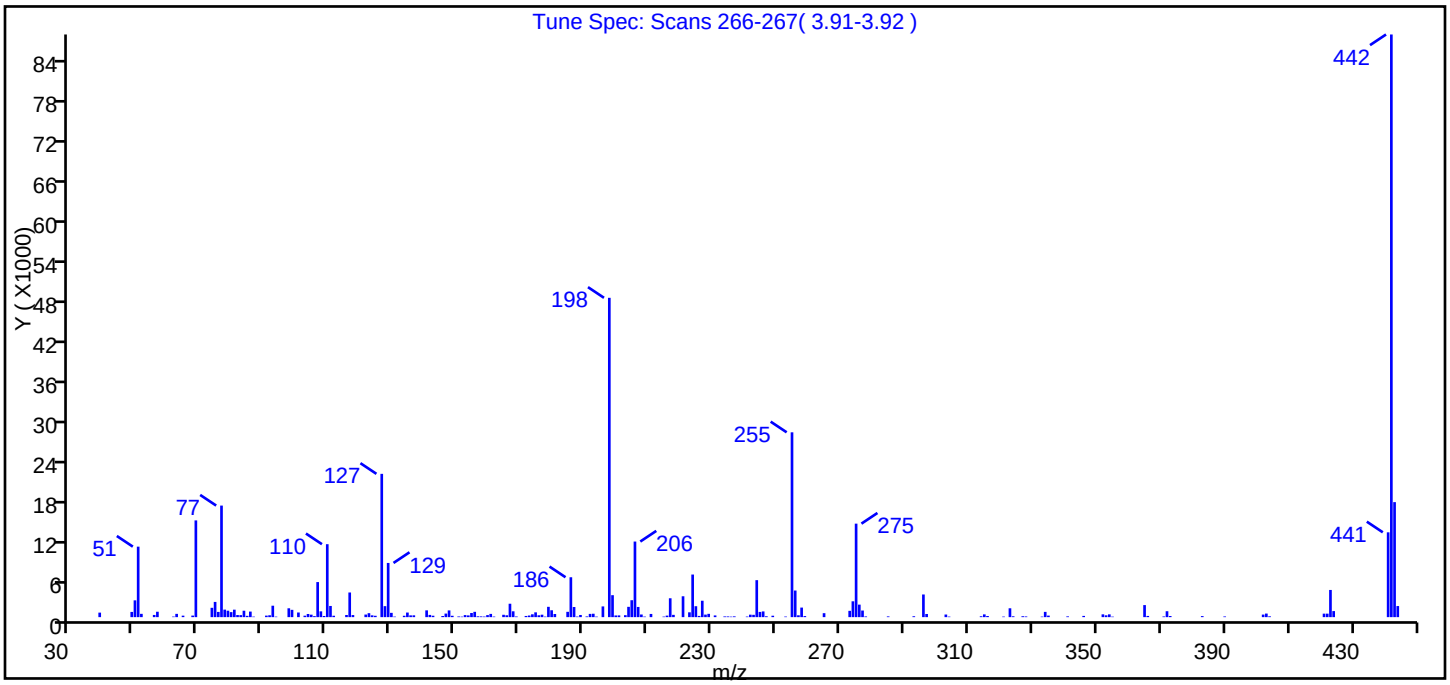
Report Date: 17-Oct-2014 08:59:06 Chrom Revision: 2.2 18-Aug-2014 12:17:36

MS Tune Report

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1601.D | | | | |
| Injection Date: | 16-Oct-2014 09:11:30 | Instrument ID: | CMSY | | |
| Lims ID: | DFTPP | | | | |
| Client ID: | | | | | |
| Operator ID: | RM | ALS Bottle#: | 1 | Worklist Smp#: | 1 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Tune Method: | DFTPP Method 525.2, BP 442 | | | | |

27 DFTPP




| m/z | Ion Abundance Criteria | % Relative Abundance |
|---|---|---|
| 442 | Base Peak, 100% relative abundance | 100.00 |
| 51 | 10.00 - 80.00% of mass 442 | 12.10 |
| 68 | Less than 2.00% of mass 69 | 0.30 ( 1.60) |
| 69 | Present | 16.60 |
| 70 | Less than 2.00% of mass 69 | 0.00 ( 0.00) |
| 127 | 10.00 - 80.00% of mass 442 | 24.60 |
| 197 | Less than 2.00% of mass 198 | 0.00 ( 0.00) |
| 198 | Greater than 50.00% of mass 442 | 54.80 |
| 199 | 5.00 - 9.00% of mass 198 | 3.80 ( 6.90) |
| 275 | 10.00 - 60.00% of mass 442 | 16.00 |
| 365 | Greater than 1.00% of mass 442 | 2.10 |
| 441 | Present, but less than mass 443 | 14.60 ( 73.80) |
| 443 | 15.00 - 24.00% of mass 442 | 19.70 |

Data File: \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1601.D\8270D_LLPAH_MSY.rslt\spectra.d
Injection Date: 16-Oct-2014 09:11:30
Spectrum: Tune Spec: Scans 266-267( 3.91-3.92 )
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 194

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 39.00 | 683 | 125.00 | 207 | 191.00 | 107 | 273.00 | 953 |
| 49.00 | 789 | 127.00 | 21640 | 192.00 | 491 | 274.00 | 2393 |
| 50.00 | 2538 | 128.00 | 1659 | 193.00 | 514 | 275.00 | 14120 |
| 51.00 | 10645 | 129.00 | 8184 | 194.00 | 79 | 276.00 | 1890 |
| 52.00 | 499 | 130.00 | 649 | 196.00 | 1620 | 277.00 | 998 |
| 56.00 | 331 | 131.00 | 80 | 198.00 | 48224 | 278.00 | 105 |
| 57.00 | 816 | 134.00 | 209 | 199.00 | 3316 | 285.00 | 112 |
| 62.00 | 85 | 135.00 | 694 | 200.00 | 254 | 293.00 | 135 |
| 63.00 | 496 | 136.00 | 269 | 201.00 | 263 | 296.00 | 3423 |
| 65.00 | 223 | 137.00 | 274 | 203.00 | 295 | 297.00 | 477 |
| 68.00 | 235 | 141.00 | 1024 | 204.00 | 1557 | 303.00 | 395 |
| 69.00 | 14609 | 142.00 | 338 | 205.00 | 2556 | 304.00 | 81 |
| 74.00 | 1410 | 143.00 | 215 | 206.00 | 11416 | 314.00 | 132 |
| 75.00 | 2299 | 146.00 | 171 | 207.00 | 1539 | 315.00 | 417 |
| 76.00 | 790 | 147.00 | 537 | 208.00 | 399 | 316.00 | 170 |
| 77.00 | 16848 | 148.00 | 1016 | 209.00 | 82 | 321.00 | 83 |
| 78.00 | 1136 | 149.00 | 206 | 211.00 | 482 | 323.00 | 1339 |
| 79.00 | 973 | 151.00 | 101 | 215.00 | 81 | 324.00 | 129 |
| 80.00 | 758 | 152.00 | 76 | 216.00 | 231 | 327.00 | 137 |
| 81.00 | 1128 | 153.00 | 310 | 217.00 | 2850 | 328.00 | 105 |
| 82.00 | 319 | 154.00 | 261 | 218.00 | 346 | 333.00 | 79 |
| 83.00 | 303 | 155.00 | 626 | 221.00 | 3152 | 334.00 | 795 |
| 84.00 | 970 | 156.00 | 804 | 223.00 | 729 | 335.00 | 232 |
| 85.00 | 198 | 157.00 | 125 | 224.00 | 6434 | 341.00 | 115 |
| 86.00 | 841 | 158.00 | 111 | 225.00 | 1652 | 346.00 | 186 |
| 87.00 | 78 | 159.00 | 88 | 226.00 | 185 | 352.00 | 424 |
| 91.00 | 231 | 160.00 | 310 | 227.00 | 2477 | 353.00 | 277 |
| 92.00 | 283 | 161.00 | 489 | 228.00 | 383 | 354.00 | 420 |
| 93.00 | 1726 | 162.00 | 84 | 229.00 | 500 | 355.00 | 77 |
| 94.00 | 76 | 165.00 | 357 | 231.00 | 257 | 365.00 | 1820 |
| 98.00 | 1337 | 166.00 | 282 | 234.00 | 106 | 366.00 | 182 |
| 99.00 | 1102 | 167.00 | 2026 | 235.00 | 105 | 371.00 | 101 |
| 101.00 | 701 | 168.00 | 883 | 236.00 | 75 | 372.00 | 894 |

Report Date: 17-Oct-2014 08:59:06 Chrom Revision: 2.2 18-Aug-2014 12:17:36
Data File: \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1601.D\8270D_LLPAH_MSY.rslt\spectra.d
Injection Date: 16-Oct-2014 09:11:30
Spectrum: Tune Spec: Scans 266-267( 3.91-3.92 )
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 194

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|---|---|---|---|---|---|---|---|
| 103.00 | 220 | 169.00 | 97 | 237.00 | 116 | 373.00 | 170 |
| 104.00 | 477 | 172.00 | 179 | 241.00 | 87 | 383.00 | 157 |
| 105.00 | 374 | 173.00 | 243 | 242.00 | 373 | 390.00 | 104 |
| 106.00 | 152 | 174.00 | 429 | 243.00 | 350 | 402.00 | 388 |
| 107.00 | 5296 | 175.00 | 725 | 244.00 | 5585 | 403.00 | 541 |
| 108.00 | 876 | 176.00 | 280 | 245.00 | 788 | 404.00 | 126 |
| 109.00 | 174 | 177.00 | 369 | 246.00 | 865 | 421.00 | 527 |
| 110.00 | 11017 | 178.00 | 79 | 247.00 | 131 | 422.00 | 527 |
| 111.00 | 1689 | 179.00 | 1559 | 249.00 | 213 | 423.00 | 4106 |
| 112.00 | 211 | 180.00 | 1040 | 253.00 | 89 | 424.00 | 915 |
| 116.00 | 325 | 181.00 | 475 | 255.00 | 27912 | 441.00 | 12810 |
| 117.00 | 3723 | 185.00 | 804 | 256.00 | 4019 | 442.00 | 87992 |
| 118.00 | 314 | 186.00 | 6025 | 257.00 | 281 | 443.00 | 17368 |
| 122.00 | 391 | 187.00 | 1529 | 258.00 | 1445 | 444.00 | 1676 |
| 123.00 | 599 | 188.00 | 86 | 259.00 | 160 | | |
| 124.00 | 272 | 189.00 | 326 | 265.00 | 598 | | |

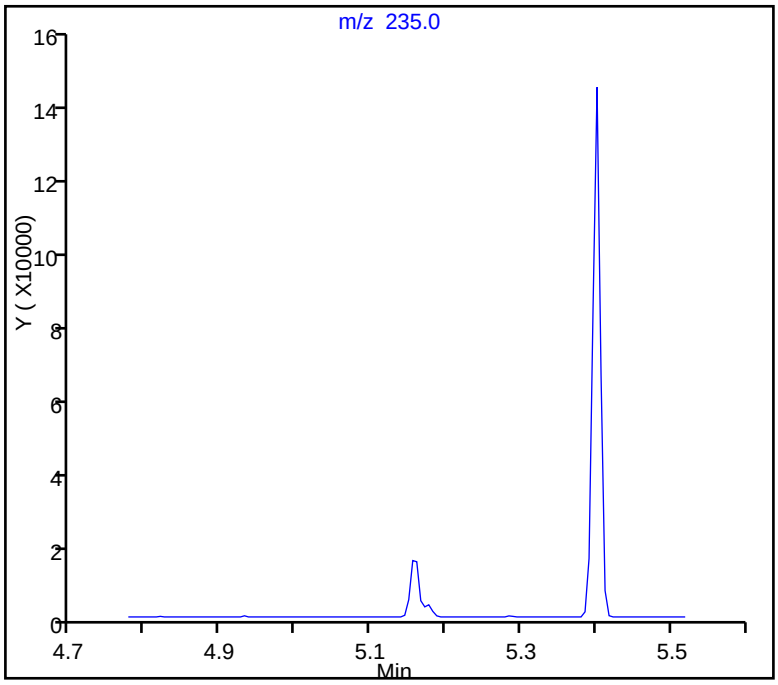
Report Date: 17-Oct-2014 08:59:06 Chrom Revision: 2.2 18-Aug-2014 12:17:36

Breakdown Report

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1601.D | | | | |
| Injection Date: | 16-Oct-2014 09:11:30 | Instrument ID: | CMSY | | |
| Lims ID: | DFTPP | | | | |
| Client ID: | | | | | |
| Operator ID: | RM | ALS Bottle#: | 1 | Worklist Smp#: | 1 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

30 4,4'-DDT, Detector: MS SCAN




SW-846 Method

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

30 4,4'-DDT, Area = 101596
29 4,4'-DDD, Area = 2508
28 4,4'-DDE, Area = 356

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG No.: 680-106200-02
Client Sample ID:
Lab Sample ID: MB 680-353328/21-A
Matrix: Solid
Lab File ID: 2YJ1507.D
Analysis Method: 8270D_LL_PAH
Date Collected:
Extract. Method: 3546
Date Extracted: 10/14/2014 10:14
Sample wt/vol: 30.02(g)
Date Analyzed: 10/15/2014 14:59
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 2(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 353689
Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 6.7 | U | 6.7 | 3.3 |
| 208-96-8 | Acenaphthylene | 6.7 | U | 6.7 | 3.3 |
| 120-12-7 | Anthracene | 6.7 | U | 6.7 | 3.3 |
| 56-55-3 | Benzo[a]anthracene | 6.7 | U | 6.7 | 3.3 |
| 50-32-8 | Benzo[a]pyrene | 6.7 | U | 6.7 | 1.2 |
| 205-99-2 | Benzo[b]fluoranthene | 6.7 | U | 6.7 | 3.3 |
| 191-24-2 | Benzo[g,h,i]perylene | 6.7 | U | 6.7 | 3.3 |
| 207-08-9 | Benzo[k]fluoranthene | 6.7 | U | 6.7 | 2.0 |
| 218-01-9 | Chrysene | 6.7 | U | 6.7 | 3.3 |
| 53-70-3 | Dibenz(a,h)anthracene | 6.7 | U | 6.7 | 3.3 |
| 206-44-0 | Fluoranthene | 6.7 | U | 6.7 | 3.3 |
| 86-73-7 | Fluorene | 6.7 | U | 6.7 | 3.3 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 6.7 | U | 6.7 | 3.3 |
| 90-12-0 | 1-Methylnaphthalene | 6.7 | U | 6.7 | 3.1 |
| 91-57-6 | 2-Methylnaphthalene | 6.7 | U | 6.7 | 3.3 |
| 91-20-3 | Naphthalene | 6.7 | U | 6.7 | 3.3 |
| 85-01-8 | Phenanthrene | 6.7 | U | 6.7 | 2.4 |
| 129-00-0 | Pyrene | 6.7 | U | 6.7 | 3.3 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 95 | | 36-131 |

TestAmerica Savannah
Target Compound Quantitation Report

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1507.D | | | | |
| Lims ID: | MB 680-353328/21-A | | | | |
| Client ID: | | | | | |
| Sample Type: | MB | | | | |
| Inject. Date: | 15-Oct-2014 14:59:30 | ALS Bottle#: | 5 | Worklist Smp#: | 7 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Sample Info: | MB 353328/21-A | | | | |
| Misc. Info.: | 680-0013789-006 | | | | |
| Operator ID: | RM | Instrument ID: | CMSY | | |

| | | | |
|---|---|---|---|
| Method: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\8270D_LLPAH_MSY.m | | |
| Limit Group: | 8270D_LL_PAH | | |
| Last Update: | 16-Oct-2014 08:46:57 | Calib Date: | 07-Oct-2014 15:41:30 |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D | | |

| | | |
|---|---|---|
| Column 1 : | Restek RXi-5Sil MS ( 0.25 mm) | Det: MS SCAN |
| Process Host: | XAWRK010 | |

First Level Reviewer: webbk Date: 16-Oct-2014 08:09:41

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.851 | 2.856 | -0.005 | 98 | 130006 | 2.00 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.551 | 4.546 | 0.005 | 92 | 70711 | 2.00 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.124 | 6.124 | 0.000 | 98 | 113085 | 2.00 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 9.002 | 8.996 | 0.006 | 99 | 106109 | 2.00 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.355 | 10.344 | 0.011 | 99 | 94859 | 2.00 | 2.00 | |
| $ 6 o-Terphenyl | 230 | 6.611 | 6.605 | 0.006 | 92 | 64461 | 2.00 | 1.89 | |

## Reagents:

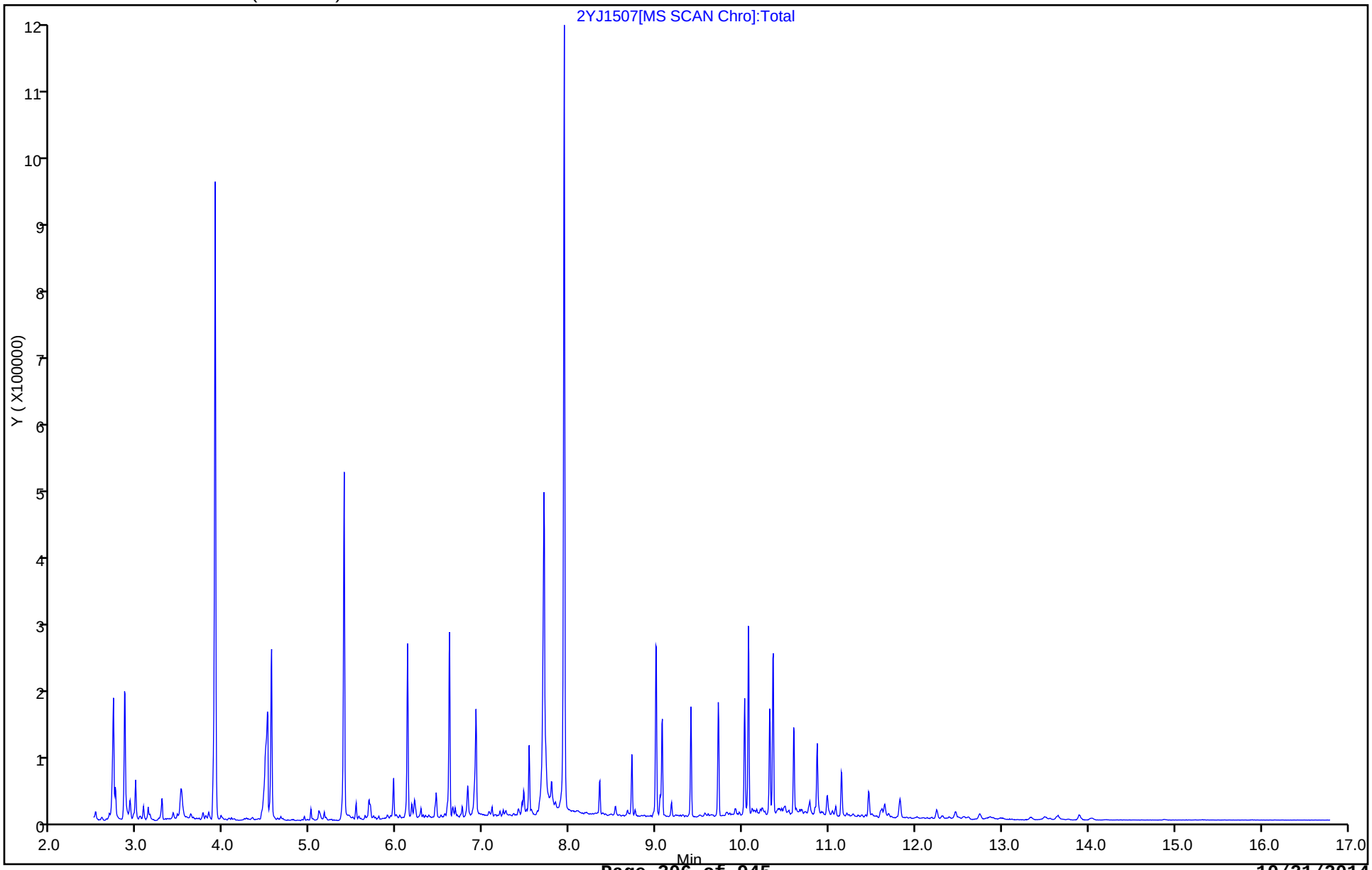
SM-LLISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 16-Oct-2014 08:47:02 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1507.D | | | | |
| Injection Date: | 15-Oct-2014 14:59:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | MB 680-353328/21-A | | | Worklist Smp#: | 7 |
| Client ID: | | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | ALS Bottle#: | 5 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG No.: 680-106200-02
Client Sample ID:
Lab Sample ID: MB 680-353477/21-A
Matrix: Solid
Lab File ID: 1YJ1607.D
Analysis Method: 8270D_LL_PAH
Date Collected:
Extract. Method: 3546
Date Extracted: 10/15/2014 10:01
Sample wt/vol: 30.06(g)
Date Analyzed: 10/16/2014 11:43
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 2(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 353862
Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 6.7 | U | 6.7 | 3.3 |
| 208-96-8 | Acenaphthylene | 6.7 | U | 6.7 | 3.3 |
| 120-12-7 | Anthracene | 6.7 | U | 6.7 | 3.3 |
| 56-55-3 | Benzo[a]anthracene | 6.7 | U | 6.7 | 3.3 |
| 50-32-8 | Benzo[a]pyrene | 6.7 | U | 6.7 | 1.2 |
| 205-99-2 | Benzo[b]fluoranthene | 6.7 | U | 6.7 | 3.3 |
| 191-24-2 | Benzo[g,h,i]perylene | 6.7 | U | 6.7 | 3.3 |
| 207-08-9 | Benzo[k]fluoranthene | 6.7 | U | 6.7 | 2.0 |
| 218-01-9 | Chrysene | 6.7 | U | 6.7 | 3.3 |
| 53-70-3 | Dibenz(a,h)anthracene | 6.7 | U | 6.7 | 3.3 |
| 206-44-0 | Fluoranthene | 6.7 | U | 6.7 | 3.3 |
| 86-73-7 | Fluorene | 6.7 | U | 6.7 | 3.3 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 6.7 | U | 6.7 | 3.3 |
| 90-12-0 | 1-Methylnaphthalene | 6.7 | U | 6.7 | 3.1 |
| 91-57-6 | 2-Methylnaphthalene | 6.7 | U | 6.7 | 3.3 |
| 91-20-3 | Naphthalene | 6.7 | U | 6.7 | 3.3 |
| 85-01-8 | Phenanthrene | 6.7 | U | 6.7 | 2.4 |
| 129-00-0 | Pyrene | 6.7 | U | 6.7 | 3.3 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 117 | | 36-131 |

TestAmerica Savannah
Target Compound Quantitation Report

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1607.D | | | | |
| Lims ID: | MB 680-353477/21-A | | | | |
| Client ID: | | | | | |
| Sample Type: | MB | | | | |
| Inject. Date: | 16-Oct-2014 11:43:30 | ALS Bottle#: | 6 | Worklist Smp#: | 7 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | | |
| Sample Info: | MB 353477/21-A | | | | |
| Misc. Info.: | 680-0013814-007 | | | | |
| Operator ID: | RM | Instrument ID: | CMSY | | |

| | | | |
|---|---|---|---|
| Method: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\8270D_LLPAH_MSY.m | | |
| Limit Group: | 8270D_LL_PAH | | |
| Last Update: | 17-Oct-2014 08:59:05 | Calib Date: | 07-Oct-2014 15:41:30 |
| Integrator: | RTE | ID Type: | Deconvolution ID |
| Quant Method: | Internal Standard | Quant By: | Initial Calibration |
| Last ICal File: | \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D | | |

| | | |
|---|---|---|
| Column 1 : | Restek RXi-5Sil MS ( 0.25 mm) | Det: MS SCAN |
| Process Host: | XAWRK009 | |

First Level Reviewer: webbk Date: 16-Oct-2014 12:04:49

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.797 | 2.803 | -0.006 | 98 | 134339 | 2.00 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.487 | 4.487 | 0.000 | 91 | 78930 | 2.00 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.060 | 6.054 | 0.006 | 98 | 128522 | 2.00 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 8.927 | 8.927 | 0.000 | 99 | 107830 | 2.00 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.280 | 10.269 | 0.011 | 99 | 93551 | 2.00 | 2.00 | |
| $ 6 o-Terphenyl | 230 | 6.541 | 6.541 | 0.000 | 92 | 80896 | 2.00 | 2.34 | |

## Reagents:

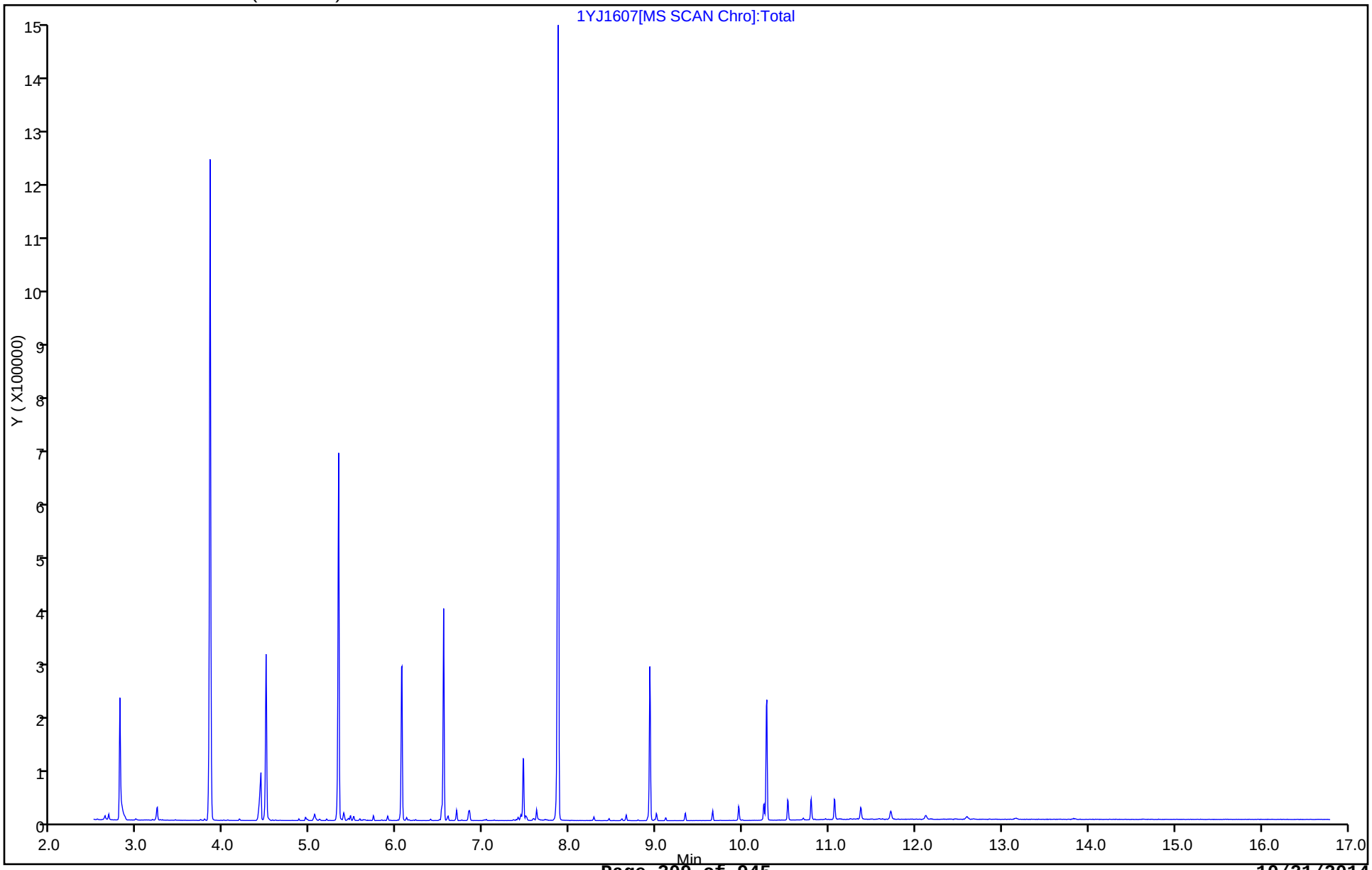
SM-LLISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 17-Oct-2014 08:59:23 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1607.D | | | | |
| Injection Date: | 16-Oct-2014 11:43:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | MB 680-353477/21-A | | | Worklist Smp#: | 7 |
| Client ID: | | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | ALS Bottle#: | 6 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG No.: 680-106200-02
Client Sample ID:
Lab Sample ID: LCS 680-353328/22-A
Matrix: Solid
Lab File ID: 2YJ1508.D
Analysis Method: 8270D_LL_PAH
Date Collected:
Extract. Method: 3546
Date Extracted: 10/14/2014 10:14
Sample wt/vol: 30.02(g)
Date Analyzed: 10/15/2014 15:21
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 2(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 353689
Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 230 | | 6.7 | 3.3 |
| 208-96-8 | Acenaphthylene | 225 | | 6.7 | 3.3 |
| 120-12-7 | Anthracene | 251 | | 6.7 | 3.3 |
| 56-55-3 | Benzo[a]anthracene | 274 | | 6.7 | 3.3 |
| 50-32-8 | Benzo[a]pyrene | 287 | | 6.7 | 1.2 |
| 205-99-2 | Benzo[b]fluoranthene | 301 | | 6.7 | 3.3 |
| 191-24-2 | Benzo[g,h,i]perylene | 291 | | 6.7 | 3.3 |
| 207-08-9 | Benzo[k]fluoranthene | 268 | | 6.7 | 2.0 |
| 218-01-9 | Chrysene | 297 | | 6.7 | 3.3 |
| 53-70-3 | Dibenz(a,h)anthracene | 297 | | 6.7 | 3.3 |
| 206-44-0 | Fluoranthene | 266 | | 6.7 | 3.3 |
| 86-73-7 | Fluorene | 231 | | 6.7 | 3.3 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 280 | | 6.7 | 3.3 |
| 90-12-0 | 1-Methylnaphthalene | 209 | | 6.7 | 3.1 |
| 91-57-6 | 2-Methylnaphthalene | 209 | | 6.7 | 3.3 |
| 91-20-3 | Naphthalene | 203 | | 6.7 | 3.3 |
| 85-01-8 | Phenanthrene | 251 | | 6.7 | 2.4 |
| 129-00-0 | Pyrene | 265 | | 6.7 | 3.3 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 88 | | 36-131 |

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1508.D
Lims ID: LCS 680-353328/22-A
Client ID:
Sample Type: LCS
Inject. Date: 15-Oct-2014 15:21:30 ALS Bottle#: 6 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: LCS 353328/22-A
Misc. Info.: 680-0013789-006
Operator ID: RM Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141015-13789.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 16-Oct-2014 08:46:57 Calib Date: 07-Oct-2014 15:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: webbk Date: 15-Oct-2014 15:49:07

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.856 | 2.856 | 0.000 | 98 | 130793 | 2.00 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.551 | 4.546 | 0.005 | 92 | 70983 | 2.00 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.129 | 6.124 | 0.005 | 98 | 114917 | 2.00 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 9.001 | 8.996 | 0.005 | 99 | 118657 | 2.00 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.349 | 10.344 | 0.005 | 99 | 106080 | 2.00 | 2.00 | |
| $ 6 o-Terphenyl | 230 | 6.611 | 6.605 | 0.006 | 91 | 67183 | 2.00 | 1.77 | |
| 7 Naphthalene | 128 | 2.877 | 2.877 | 0.000 | 99 | 434894 | 10.0 | 6.10 | |
| 8 2-Methylnaphthalene | 142 | 3.519 | 3.514 | 0.005 | 87 | 296152 | 10.0 | 6.26 | |
| 9 1-Methylnaphthalene | 142 | 3.610 | 3.605 | 0.005 | 95 | 274626 | 10.0 | 6.26 | |
| 10 1,1'-Biphenyl | 154 | 4.402 | 4.396 | 0.006 | 0 | 3748 | NC | NC | |
| 11 Acenaphthylene | 152 | 4.402 | 4.396 | 0.006 | 98 | 464440 | 10.0 | 6.75 | |
| 12 Acenaphthene | 153 | 4.589 | 4.584 | 0.005 | 93 | 305024 | 10.0 | 6.90 | |
| 14 Fluorene | 166 | 5.134 | 5.129 | 0.005 | 96 | 338534 | 10.0 | 6.94 | |
| 15 Phenanthrene | 178 | 6.156 | 6.151 | 0.005 | 96 | 518129 | 10.0 | 7.53 | |
| 16 Anthracene | 178 | 6.209 | 6.204 | 0.005 | 99 | 515739 | 10.0 | 7.54 | |
| 17 Fluoranthene | 202 | 7.450 | 7.445 | 0.005 | 98 | 581652 | 10.0 | 7.98 | |
| 18 Pyrene | 202 | 7.686 | 7.680 | 0.006 | 98 | 613761 | 10.0 | 7.96 | |
| 19 Benzo[a]anthracene | 228 | 8.996 | 8.991 | 0.005 | 98 | 571636 | 10.0 | 8.24 | |
| 20 Chrysene | 228 | 9.028 | 9.023 | 0.005 | 99 | 559407 | 10.0 | 8.92 | |
| 21 Benzo[b]fluoranthene | 252 | 10.028 | 10.023 | 0.005 | 98 | 631327 | 10.0 | 9.05 | |
| 22 Benzo[k]fluoranthene | 252 | 10.055 | 10.050 | 0.005 | 99 | 528056 | 10.0 | 8.06 | |
| 23 Benzo[a]pyrene | 252 | 10.307 | 10.296 | 0.010 | 98 | 494411 | 10.0 | 8.62 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.205 | 11.200 | 0.005 | 98 | 548463 | 10.0 | 8.41 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.232 | 11.227 | 0.005 | 98 | 453028 | 10.0 | 8.92 | |
| 26 Benzo[g,h,i]perylene | 276 | 11.435 | 11.424 | 0.011 | 98 | 462304 | 10.0 | 8.73 | |

## QC Flag Legend

Processing Flags
NC - Not Calibrated

## Reagents:

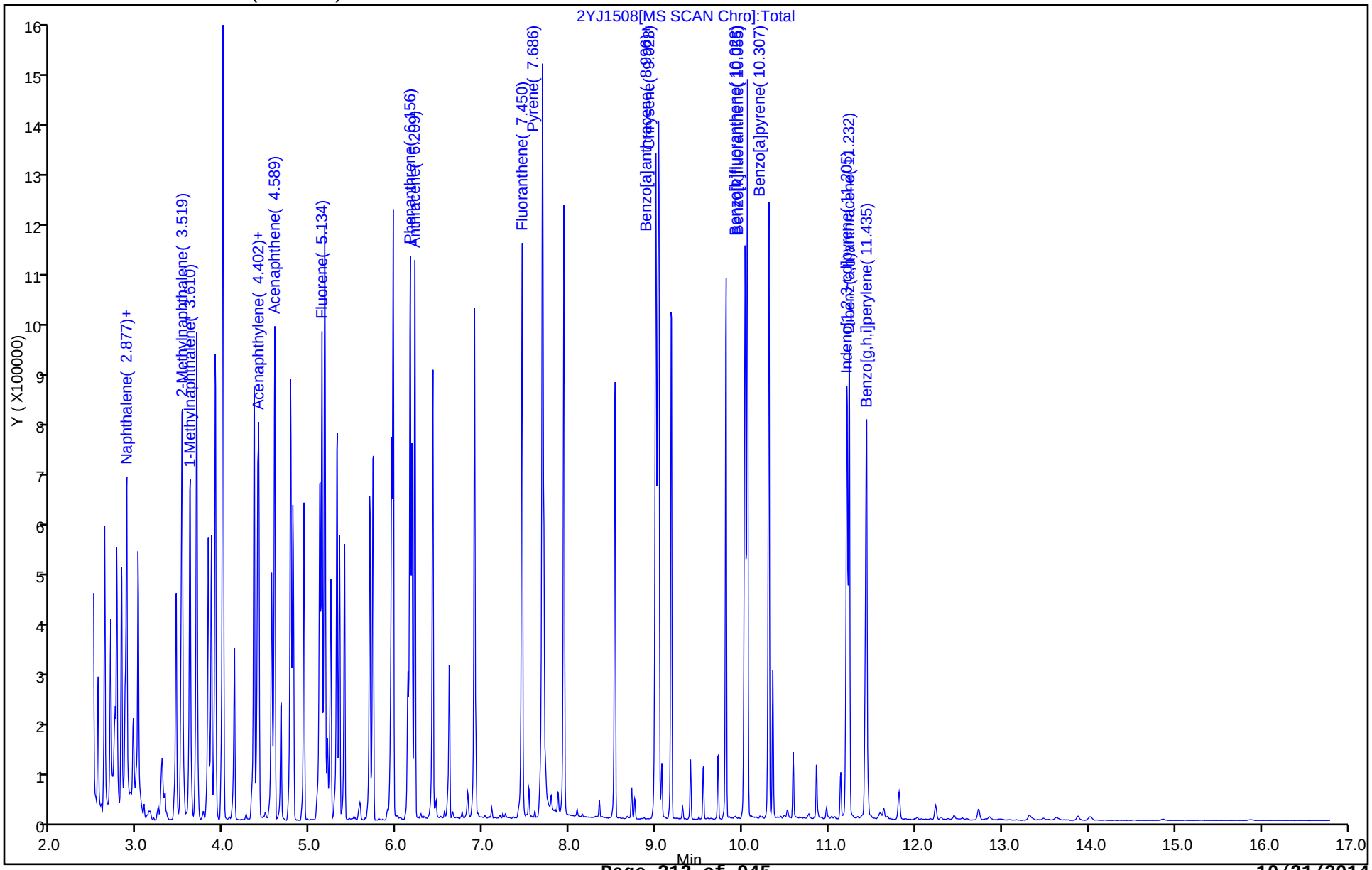
SM-LLISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 16-Oct-2014 08:47:04 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1508.D | | | | |
| Injection Date: | 15-Oct-2014 15:21:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | LCS 680-353328/22-A | | | Worklist Smp#: | 8 |
| Client ID: | | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | ALS Bottle#: | 6 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG No.: 680-106200-02
Client Sample ID:
Lab Sample ID: LCS 680-353477/22-A
Matrix: Solid
Lab File ID: 1YJ1608.D
Analysis Method: 8270D_LL_PAH
Date Collected:
Extract. Method: 3546
Date Extracted: 10/15/2014 10:01
Sample wt/vol: 30.02(g)
Date Analyzed: 10/16/2014 12:05
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 2(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 353862
Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 202 | | 6.7 | 3.3 |
| 208-96-8 | Acenaphthylene | 198 | | 6.7 | 3.3 |
| 120-12-7 | Anthracene | 213 | | 6.7 | 3.3 |
| 56-55-3 | Benzo[a]anthracene | 228 | | 6.7 | 3.3 |
| 50-32-8 | Benzo[a]pyrene | 228 | | 6.7 | 1.2 |
| 205-99-2 | Benzo[b]fluoranthene | 235 | | 6.7 | 3.3 |
| 191-24-2 | Benzo[g,h,i]perylene | 228 | | 6.7 | 3.3 |
| 207-08-9 | Benzo[k]fluoranthene | 222 | | 6.7 | 2.0 |
| 218-01-9 | Chrysene | 233 | | 6.7 | 3.3 |
| 53-70-3 | Dibenz(a,h)anthracene | 243 | | 6.7 | 3.3 |
| 206-44-0 | Fluoranthene | 209 | | 6.7 | 3.3 |
| 86-73-7 | Fluorene | 199 | | 6.7 | 3.3 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 208 | | 6.7 | 3.3 |
| 90-12-0 | 1-Methylnaphthalene | 197 | | 6.7 | 3.1 |
| 91-57-6 | 2-Methylnaphthalene | 196 | | 6.7 | 3.3 |
| 91-20-3 | Naphthalene | 191 | | 6.7 | 3.3 |
| 85-01-8 | Phenanthrene | 209 | | 6.7 | 2.4 |
| 129-00-0 | Pyrene | 238 | | 6.7 | 3.3 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 84 | | 36-131 |

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1608.D
Lims ID: LCS 680-353477/22-A
Client ID:
Sample Type: LCS
Inject. Date: 16-Oct-2014 12:05:30 ALS Bottle#: 7 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: LCS 353477/22-A
Misc. Info.: 680-0013814-008
Operator ID: RM Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141016-13814.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 17-Oct-2014 08:59:05 Calib Date: 07-Oct-2014 15:41:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 16-Oct-2014 13:54:06

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.797 | 2.803 | -0.006 | 96 | 143819 | 2.00 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.492 | 4.487 | 0.005 | 92 | 79381 | 2.00 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.060 | 6.054 | 0.006 | 98 | 123420 | 2.00 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 8.932 | 8.927 | 0.005 | 91 | 108408 | 2.00 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.274 | 10.269 | 0.005 | 97 | 91512 | 2.00 | 2.00 | |
| $ 6 o-Terphenyl | 230 | 6.541 | 6.541 | 0.000 | 89 | 58495 | 2.00 | 1.68 | |
| 7 Naphthalene | 128 | 2.818 | 2.819 | -0.001 | 99 | 449748 | 10.0 | 5.73 | |
| 8 2-Methylnaphthalene | 142 | 3.460 | 3.455 | 0.005 | 83 | 306186 | 10.0 | 5.89 | |
| 9 1-Methylnaphthalene | 142 | 3.551 | 3.546 | 0.005 | 89 | 285614 | 10.0 | 5.92 | |
| 10 1,1'-Biphenyl | 154 | 4.337 | 4.332 | 0.005 | 0 | 3495 | NC | NC | |
| 11 Acenaphthylene | 152 | 4.337 | 4.338 | -0.001 | 68 | 457999 | 10.0 | 5.95 | |
| 12 Acenaphthene | 153 | 4.525 | 4.519 | 0.006 | 93 | 299725 | 10.0 | 6.06 | |
| 14 Fluorene | 166 | 5.070 | 5.065 | 0.005 | 84 | 326031 | 10.0 | 5.98 | |
| 15 Phenanthrene | 178 | 6.086 | 6.081 | 0.005 | 96 | 463223 | 10.0 | 6.27 | |
| 16 Anthracene | 178 | 6.140 | 6.135 | 0.005 | 91 | 469456 | 10.0 | 6.39 | |
| 17 Fluoranthene | 202 | 7.381 | 7.376 | 0.005 | 98 | 491581 | 10.0 | 6.28 | |
| 18 Pyrene | 202 | 7.611 | 7.606 | 0.005 | 97 | 502611 | 10.0 | 7.13 | |
| 19 Benzo[a]anthracene | 228 | 8.921 | 8.916 | 0.005 | 98 | 433558 | 10.0 | 6.84 | |
| 20 Chrysene | 228 | 8.959 | 8.953 | 0.006 | 96 | 405833 | 10.0 | 7.00 | |
| 21 Benzo[b]fluoranthene | 252 | 9.953 | 9.948 | 0.005 | 98 | 425466 | 10.0 | 7.07 | |
| 22 Benzo[k]fluoranthene | 252 | 9.980 | 9.975 | 0.005 | 95 | 378627 | 10.0 | 6.66 | |
| 23 Benzo[a]pyrene | 252 | 10.232 | 10.221 | 0.011 | 97 | 338734 | 10.0 | 6.84 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.119 | 11.109 | 0.010 | 99 | 372443 | 10.0 | 6.26 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.146 | 11.136 | 0.010 | 98 | 318437 | 10.0 | 7.28 | |
| 26 Benzo[g,h,i]perylene | 276 | 11.333 | 11.323 | 0.010 | 92 | 311538 | 10.0 | 6.84 | |

## QC Flag Legend

Processing Flags
NC - Not Calibrated

## Reagents:

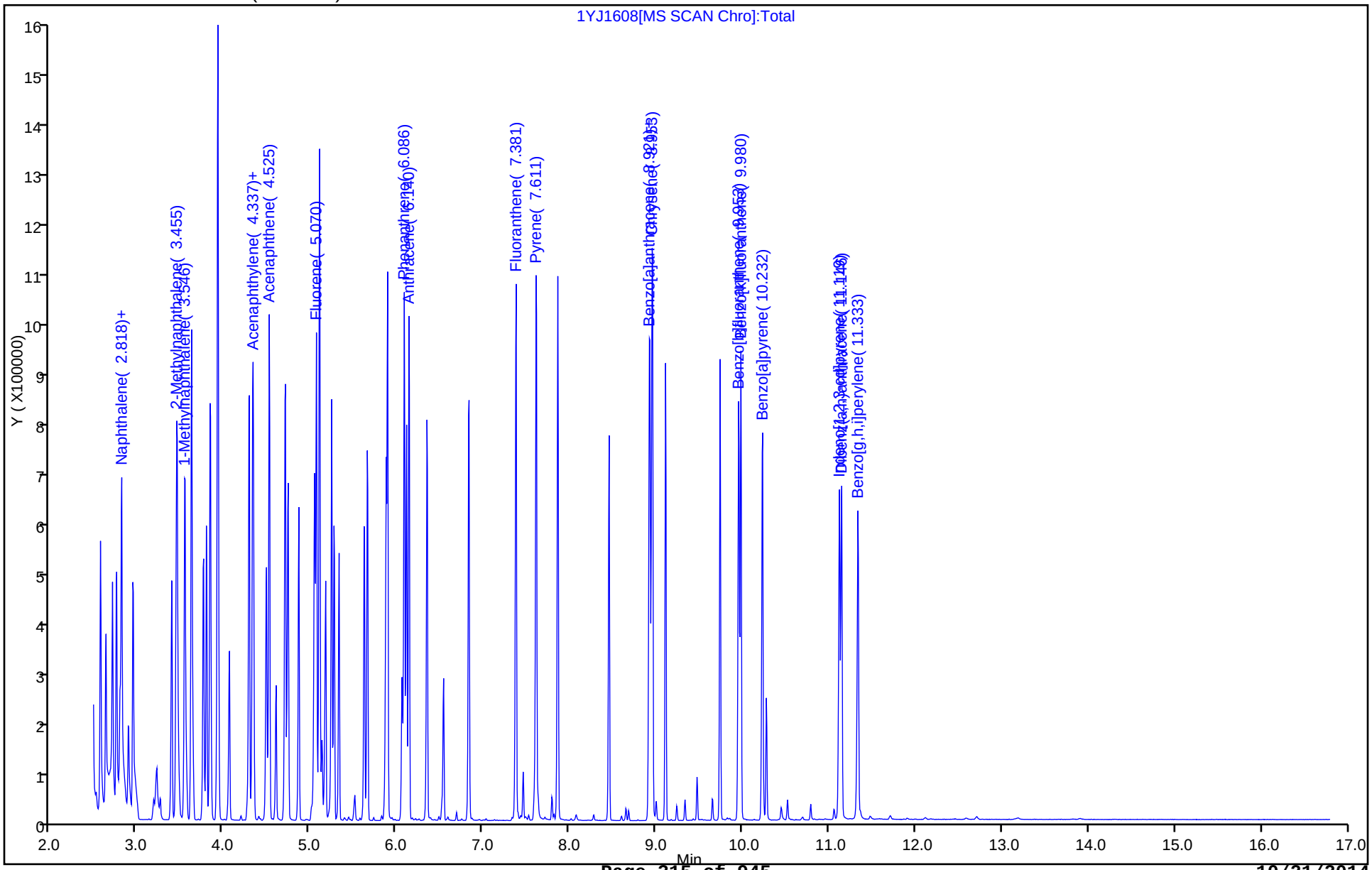
SM-LLISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 17-Oct-2014 08:59:23 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1608.D | | | | |
| Injection Date: | 16-Oct-2014 12:05:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | LCS 680-353477/22-A | | | Worklist Smp#: | 8 |
| Client ID: | | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 1.0000 | ALS Bottle#: | 7 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0971WW-CS6 MS | Lab Sample ID: 680-106200-18 MS

Matrix: Solid | Lab File ID: 1YJ1609.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 13:40

Extract. Method: 3546 | Date Extracted: 10/15/2014 10:01

Sample wt/vol: 30.03(g) | Date Analyzed: 10/16/2014 12:28

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 12.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353862 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 322 | | 76 | 37 |
| 208-96-8 | Acenaphthylene | 400 | | 76 | 37 |
| 120-12-7 | Anthracene | 427 | | 76 | 37 |
| 56-55-3 | Benzo[a]anthracene | 1270 | | 76 | 37 |
| 50-32-8 | Benzo[a]pyrene | 1330 | | 76 | 14 |
| 205-99-2 | Benzo[b]fluoranthene | 1740 | | 76 | 37 |
| 191-24-2 | Benzo[g,h,i]perylene | 928 | | 76 | 37 |
| 207-08-9 | Benzo[k]fluoranthene | 991 | | 76 | 23 |
| 218-01-9 | Chrysene | 1390 | | 76 | 37 |
| 53-70-3 | Dibenz(a,h)anthracene | 405 | | 76 | 37 |
| 206-44-0 | Fluoranthene | 2010 | | 76 | 37 |
| 86-73-7 | Fluorene | 316 | | 76 | 37 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 816 | | 76 | 37 |
| 90-12-0 | 1-Methylnaphthalene | 393 | | 76 | 35 |
| 91-57-6 | 2-Methylnaphthalene | 404 | | 76 | 37 |
| 91-20-3 | Naphthalene | 370 | | 76 | 37 |
| 85-01-8 | Phenanthrene | 1030 | | 76 | 27 |
| 129-00-0 | Pyrene | 1990 | | 76 | 37 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 0 | D | 36-131 |

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1609.D
Lims ID: 680-106200-A-18-B MS
Client ID: CV0971WW-CS6
Sample Type: MS
Inject. Date: 16-Oct-2014 12:28:30 ALS Bottle#: 8 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Sample Info: 106200-A-18-B MS 1:10
Misc. Info.: 680-0013814-009
Operator ID: RM Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141016-13814.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 17-Oct-2014 14:22:05 Calib Date: 07-Oct-2014 15:41:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK031

First Level Reviewer: webbk Date: 16-Oct-2014 13:55:34

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.802 | 2.803 | -0.001 | 98 | 127376 | 0.2000 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.487 | 4.487 | 0.000 | 92 | 69451 | 0.2000 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.060 | 6.054 | 0.006 | 98 | 110841 | 0.2000 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 8.932 | 8.927 | 0.005 | 99 | 102024 | 0.2000 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.280 | 10.269 | 0.011 | 98 | 87155 | 0.2000 | 2.00 | |
| 7 Naphthalene | 128 | 2.818 | 2.819 | -0.001 | 99 | 68016 | 1.00 | 0.9790 | |
| 8 2-Methylnaphthalene | 142 | 3.460 | 3.455 | 0.005 | 85 | 49264 | 1.00 | 1.07 | |
| 9 1-Methylnaphthalene | 142 | 3.551 | 3.546 | 0.005 | 86 | 44358 | 1.00 | 1.04 | |
| 13 Dibenzofuran | 168 | 4.284 | 4.225 | 0.059 | 12 | 5150 | NC | NC | |
| 10 1,1'-Biphenyl | 154 | 4.337 | 4.332 | 0.005 | 0 | 758 | NC | NC | |
| 11 Acenaphthylene | 152 | 4.337 | 4.338 | -0.001 | 97 | 71133 | 1.00 | 1.06 | |
| 12 Acenaphthene | 153 | 4.519 | 4.519 | 0.000 | 88 | 36816 | 1.00 | 0.8515 | |
| 14 Fluorene | 166 | 5.065 | 5.065 | 0.000 | 83 | 39887 | 1.00 | 0.8356 | |
| 15 Phenanthrene | 178 | 6.081 | 6.081 | 0.000 | 96 | 180748 | 1.00 | 2.72 | |
| 16 Anthracene | 178 | 6.140 | 6.135 | 0.005 | 90 | 74480 | 1.00 | 1.13 | |
| 17 Fluoranthene | 202 | 7.381 | 7.376 | 0.005 | 97 | 372952 | 1.00 | 5.30 | |
| 18 Pyrene | 202 | 7.616 | 7.606 | 0.010 | 97 | 349015 | 1.00 | 5.25 | |
| 19 Benzo[a]anthracene | 228 | 8.921 | 8.916 | 0.005 | 98 | 201112 | 1.00 | 3.37 | |
| 20 Chrysene | 228 | 8.959 | 8.953 | 0.006 | 97 | 205513 | 1.00 | 3.69 | |
| 21 Benzo[b]fluoranthene | 252 | 9.959 | 9.948 | 0.011 | 98 | 264356 | 1.00 | 4.61 | |
| 22 Benzo[k]fluoranthene | 252 | 9.980 | 9.975 | 0.005 | 99 | 144457 | 1.00 | 2.62 | M |
| 23 Benzo[a]pyrene | 252 | 10.232 | 10.221 | 0.011 | 97 | 166304 | 1.00 | 3.53 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.120 | 11.109 | 0.011 | 99 | 120828 | 1.00 | 2.16 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.146 | 11.136 | 0.010 | 97 | 44169 | 1.00 | 1.07 | |
| 26 Benzo[g,h,i]perylene | 276 | 11.339 | 11.323 | 0.016 | 90 | 105727 | 1.00 | 2.45 | |

## QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

## Reagents:

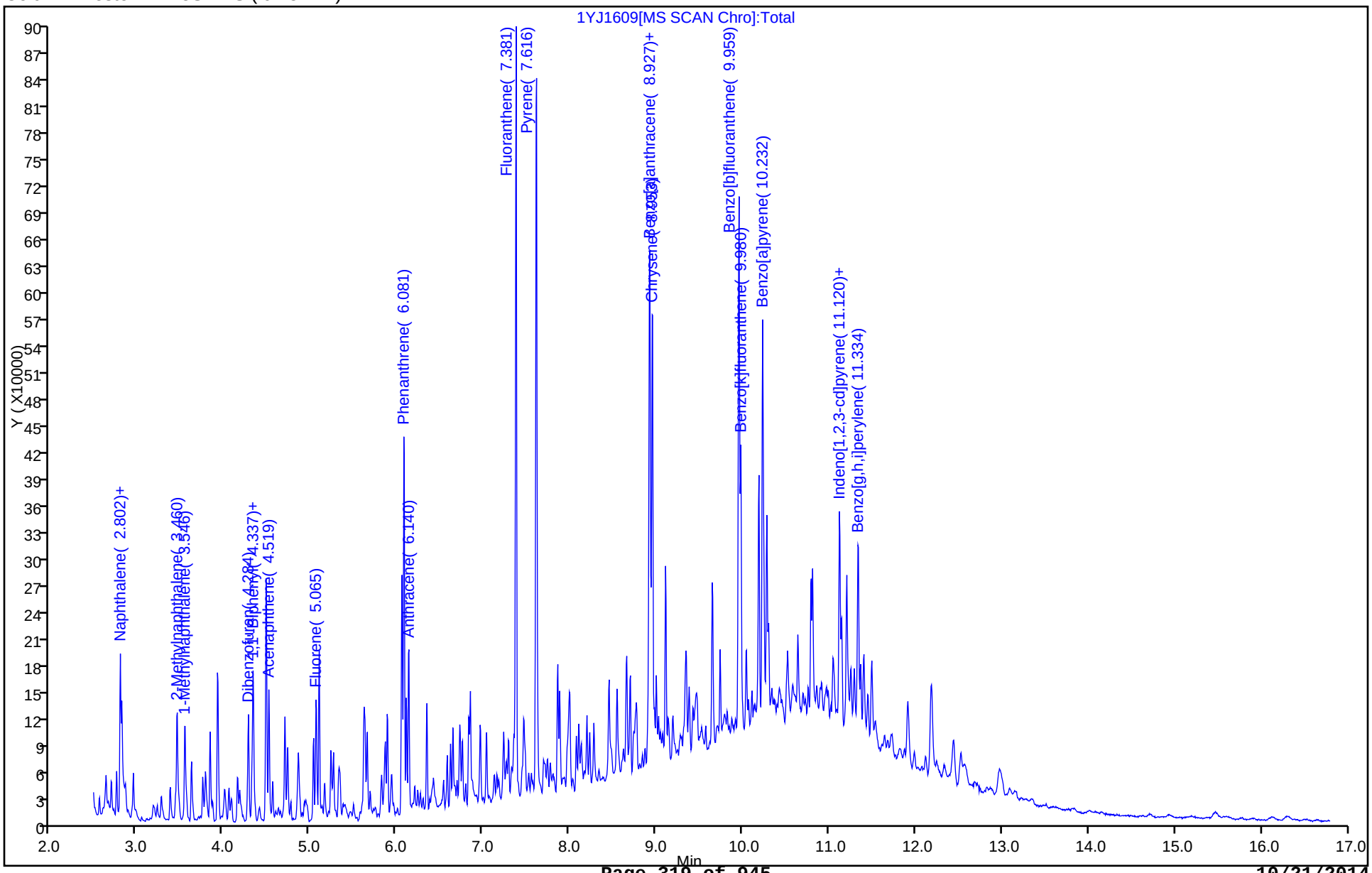
SM-LLISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 17-Oct-2014 14:28:56 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1609.D | | | | |
| Injection Date: | 16-Oct-2014 12:28:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | 680-106200-A-18-B MS | | | Worklist Smp#: | 9 |
| Client ID: | CV0971WW-CS6 | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | ALS Bottle#: | 8 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)



Manual Integration/User Assign Peak Report

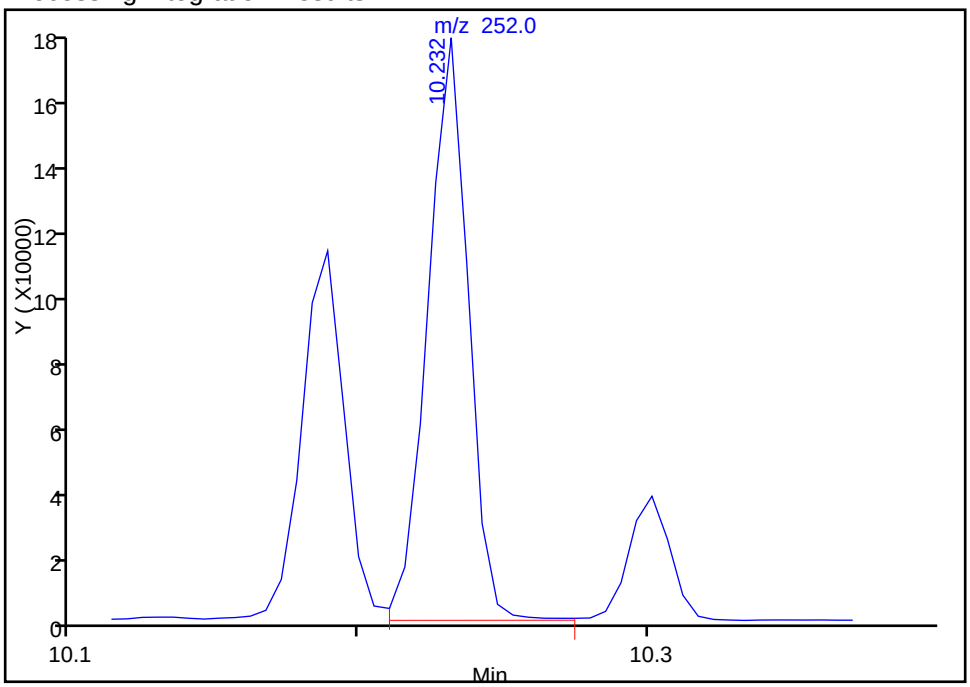
TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1609.D | | | | |
| Injection Date: | 16-Oct-2014 12:28:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-18-B MS | | | | |
| Client ID: | CV0971WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 8 | Worklist Smp#: | 9 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

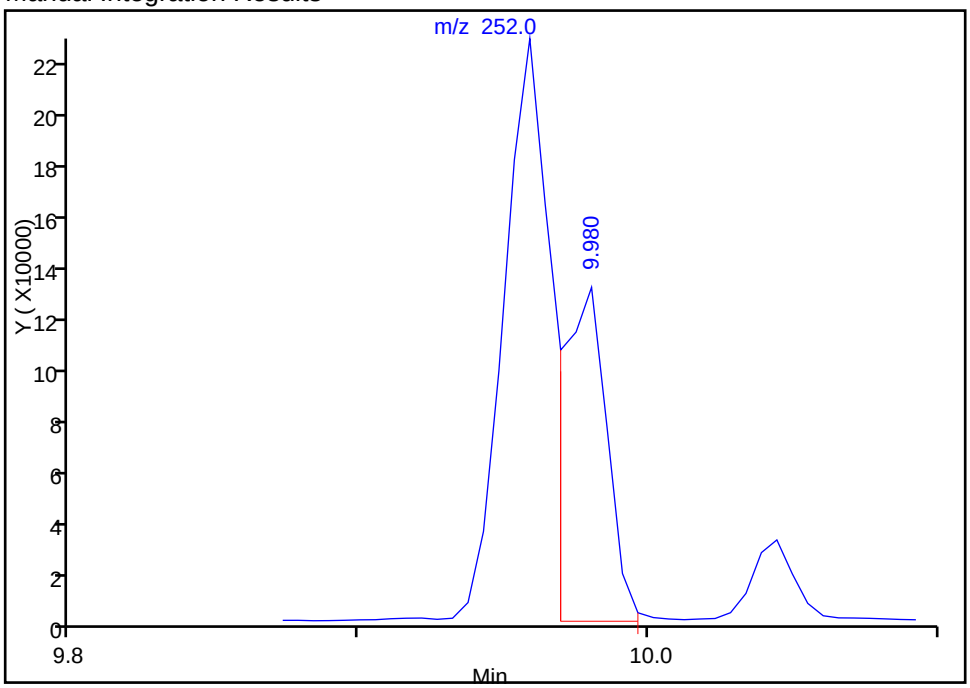
Processing Integration Results

RT: 10.23
Response: 166745
Amount: 3.030372




Manual Integration Results

RT: 9.98
Response: 144457
Amount: 2.620703




Reviewer: webbk, 16-Oct-2014 13:55:34
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: | Lab Sample ID: 680-106200-A-1-D MS

Matrix: Solid | Lab File ID: 2YJ1509.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 09:00

Extract. Method: 3546 | Date Extracted: 10/14/2014 10:14

Sample wt/vol: 30.15(g) | Date Analyzed: 10/15/2014 15:43

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353689 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 277 | | 150 | 72 |
| 208-96-8 | Acenaphthylene | 250 | | 150 | 72 |
| 120-12-7 | Anthracene | 319 | | 150 | 72 |
| 56-55-3 | Benzo[a]anthracene | 717 | | 150 | 72 |
| 50-32-8 | Benzo[a]pyrene | 736 | | 150 | 26 |
| 205-99-2 | Benzo[b]fluoranthene | 956 | | 150 | 72 |
| 191-24-2 | Benzo[g,h,i]perylene | 558 | | 150 | 72 |
| 207-08-9 | Benzo[k]fluoranthene | 618 | | 150 | 44 |
| 218-01-9 | Chrysene | 880 | | 150 | 72 |
| 53-70-3 | Dibenz(a,h)anthracene | 358 | | 150 | 72 |
| 206-44-0 | Fluoranthene | 1080 | | 150 | 72 |
| 86-73-7 | Fluorene | 266 | | 150 | 72 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 524 | | 150 | 72 |
| 90-12-0 | 1-Methylnaphthalene | 590 | | 150 | 68 |
| 91-57-6 | 2-Methylnaphthalene | 640 | | 150 | 72 |
| 91-20-3 | Naphthalene | 499 | | 150 | 72 |
| 85-01-8 | Phenanthrene | 901 | | 150 | 52 |
| 129-00-0 | Pyrene | 1050 | | 150 | 72 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 0 | D | 36-131 |

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1509.D
Lims ID: 680-106200-A-1-D MS
Client ID: CV0005Y-CS6
Sample Type: MS
Inject. Date: 15-Oct-2014 15:43:30 ALS Bottle#: 7 Worklist Smp#: 9
Injection Vol: 2.0 ul Dil. Factor: 20.0000
Sample Info: 106200-A-1-D MS 1:20
Misc. Info.: 680-0013789-009
Operator ID: RM Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141015-13789.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 16-Oct-2014 08:46:57 Calib Date: 07-Oct-2014 15:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: webbk Date: 15-Oct-2014 16:29:03

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.856 | 2.856 | 0.000 | 98 | 142460 | 0.1000 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.551 | 4.546 | 0.005 | 91 | 78977 | 0.1000 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.124 | 6.124 | 0.000 | 98 | 126352 | 0.1000 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 8.996 | 8.996 | 0.000 | 99 | 114143 | 0.1000 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.349 | 10.344 | 0.005 | 99 | 104149 | 0.1000 | 2.00 | |
| 7 Naphthalene | 128 | 2.877 | 2.877 | 0.000 | 99 | 53290 | 0.5000 | 0.6858 | |
| 8 2-Methylnaphthalene | 142 | 3.514 | 3.514 | 0.000 | 86 | 45311 | 0.5000 | 0.8794 | |
| 9 1-Methylnaphthalene | 142 | 3.605 | 3.605 | 0.000 | 92 | 38688 | 0.5000 | 0.8097 | |
| 13 Dibenzofuran | 168 | 4.343 | 4.225 | 0.118 | 29 | 2542 | NC | NC | |
| 10 1,1'-Biphenyl | 154 | 4.402 | 4.396 | 0.006 | 0 | 284 | NC | NC | |
| 11 Acenaphthylene | 152 | 4.396 | 4.396 | 0.000 | 98 | 26245 | 0.5000 | 0.3429 | |
| 12 Acenaphthene | 153 | 4.584 | 4.584 | 0.000 | 94 | 18674 | 0.5000 | 0.3798 | |
| 14 Fluorene | 166 | 5.129 | 5.129 | 0.000 | 96 | 19845 | 0.5000 | 0.3656 | |
| 15 Phenanthrene | 178 | 6.151 | 6.151 | 0.000 | 96 | 93567 | 0.5000 | 1.24 | |
| 16 Anthracene | 178 | 6.204 | 6.204 | 0.000 | 99 | 32905 | 0.5000 | 0.4375 | |
| 17 Fluoranthene | 202 | 7.445 | 7.445 | 0.000 | 98 | 119199 | 0.5000 | 1.49 | |
| 18 Pyrene | 202 | 7.680 | 7.680 | 0.000 | 98 | 107491 | 0.5000 | 1.44 | |
| 19 Benzo[a]anthracene | 228 | 8.985 | 8.991 | -0.006 | 98 | 65728 | 0.5000 | 0.9846 | |
| 20 Chrysene | 228 | 9.023 | 9.023 | 0.000 | 99 | 76529 | 0.5000 | 1.21 | |
| 21 Benzo[b]fluoranthene | 252 | 10.023 | 10.023 | 0.000 | 99 | 89954 | 0.5000 | 1.31 | |
| 22 Benzo[k]fluoranthene | 252 | 10.045 | 10.050 | -0.006 | 98 | 56304 | 0.5000 | 0.8483 | |
| 23 Benzo[a]pyrene | 252 | 10.296 | 10.296 | 0.000 | 98 | 56903 | 0.5000 | 1.01 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.200 | 11.200 | 0.000 | 99 | 45110 | 0.5000 | 0.7198 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.227 | 11.227 | 0.000 | 96 | 24225 | 0.5000 | 0.4918 | |
| 26 Benzo[g,h,i]perylene | 276 | 11.419 | 11.424 | -0.005 | 98 | 39384 | 0.5000 | 0.7665 | |

## QC Flag Legend

Processing Flags
NC - Not Calibrated

## Reagents:

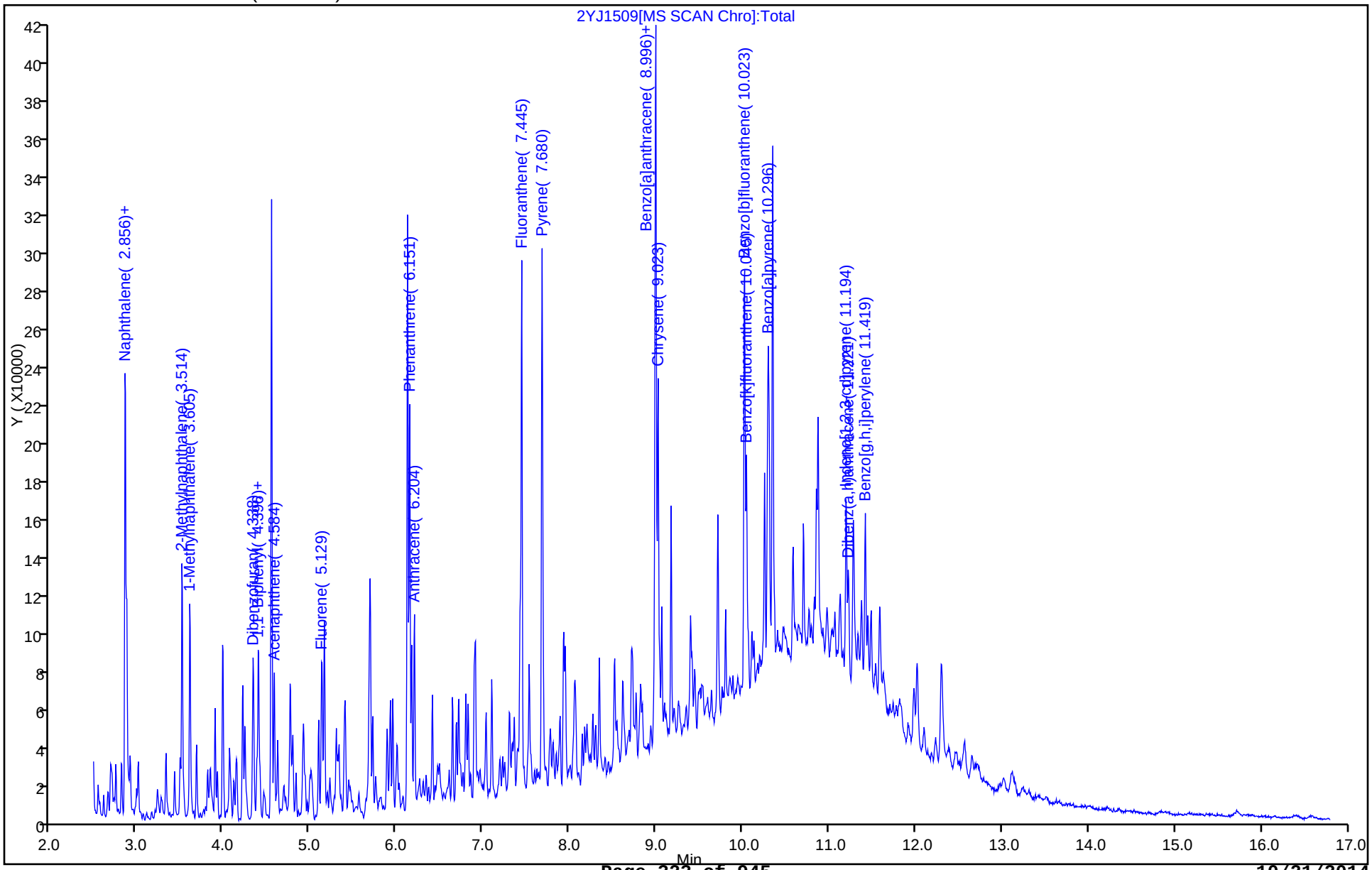
SM-LLISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 16-Oct-2014 08:47:06 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1509.D | | | | |
| Injection Date: | 15-Oct-2014 15:43:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | 680-106200-A-1-D MS | | | Worklist Smp#: | 9 |
| Client ID: | CV0005Y-CS6 | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 20.0000 | ALS Bottle#: | 7 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: CV0971WW-CS6 MSD | Lab Sample ID: 680-106200-18 MSD

Matrix: Solid | Lab File ID: 1YJ1610.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 13:40

Extract. Method: 3546 | Date Extracted: 10/15/2014 10:01

Sample wt/vol: 30.04(g) | Date Analyzed: 10/16/2014 12:50

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

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 12.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353862 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 405 | | 76 | 37 |
| 208-96-8 | Acenaphthylene | 464 | | 76 | 37 |
| 120-12-7 | Anthracene | 606 | | 76 | 37 |
| 56-55-3 | Benzo[a]anthracene | 2110 | | 76 | 37 |
| 50-32-8 | Benzo[a]pyrene | 2100 | | 76 | 14 |
| 205-99-2 | Benzo[b]fluoranthene | 2790 | | 76 | 37 |
| 191-24-2 | Benzo[g,h,i]perylene | 1590 | | 76 | 37 |
| 207-08-9 | Benzo[k]fluoranthene | 1500 | | 76 | 23 |
| 218-01-9 | Chrysene | 2500 | | 76 | 37 |
| 53-70-3 | Dibenz(a,h)anthracene | 907 | | 76 | 37 |
| 206-44-0 | Fluoranthene | 3670 | | 76 | 37 |
| 86-73-7 | Fluorene | 417 | | 76 | 37 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 1410 | | 76 | 37 |
| 90-12-0 | 1-Methylnaphthalene | 438 | | 76 | 35 |
| 91-57-6 | 2-Methylnaphthalene | 452 | | 76 | 37 |
| 91-20-3 | Naphthalene | 417 | | 76 | 37 |
| 85-01-8 | Phenanthrene | 2430 | | 76 | 27 |
| 129-00-0 | Pyrene | 3750 | | 76 | 37 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 0 | D | 36-131 |

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1610.D
Lims ID: 680-106200-A-18-C MSD
Client ID: CV0971WW-CS6
Sample Type: MSD
Inject. Date: 16-Oct-2014 12:50:30 ALS Bottle#: 9 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 10.0000
Sample Info: 106200-A-18-C MSD 1:10
Misc. Info.: 680-0013814-010
Operator ID: RM Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141016-13814.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 17-Oct-2014 08:59:05 Calib Date: 07-Oct-2014 15:41:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: webbk Date: 16-Oct-2014 13:56:58

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.802 | 2.803 | -0.001 | 98 | 132450 | 0.2000 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.493 | 4.487 | 0.006 | 91 | 73883 | 0.2000 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.060 | 6.054 | 0.006 | 98 | 118512 | 0.2000 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 8.932 | 8.927 | 0.005 | 78 | 97281 | 0.2000 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.285 | 10.269 | 0.016 | 98 | 87169 | 0.2000 | 2.00 | |
| 7 Naphthalene | 128 | 2.824 | 2.819 | 0.005 | 99 | 79732 | 1.00 | 1.10 | |
| 8 2-Methylnaphthalene | 142 | 3.460 | 3.455 | 0.005 | 86 | 57286 | 1.00 | 1.20 | |
| 9 1-Methylnaphthalene | 142 | 3.551 | 3.546 | 0.005 | 88 | 51454 | 1.00 | 1.16 | |
| 13 Dibenzofuran | 168 | 4.284 | 4.225 | 0.059 | 20 | 6535 | NC | NC | |
| 10 1,1'-Biphenyl | 154 | 4.337 | 4.332 | 0.005 | 0 | 1166 | NC | NC | |
| 11 Acenaphthylene | 152 | 4.337 | 4.338 | -0.001 | 97 | 87853 | 1.00 | 1.23 | |
| 12 Acenaphthene | 153 | 4.525 | 4.519 | 0.006 | 86 | 49311 | 1.00 | 1.07 | |
| 14 Fluorene | 166 | 5.065 | 5.065 | 0.000 | 78 | 56062 | 1.00 | 1.10 | |
| 15 Phenanthrene | 178 | 6.086 | 6.081 | 0.005 | 96 | 456264 | 1.00 | 6.43 | |
| 16 Anthracene | 178 | 6.140 | 6.135 | 0.005 | 91 | 113008 | 1.00 | 1.60 | |
| 17 Fluoranthene | 202 | 7.386 | 7.376 | 0.010 | 98 | 730586 | 1.00 | 9.72 | |
| 18 Pyrene | 202 | 7.616 | 7.606 | 0.010 | 97 | 625607 | 1.00 | 9.92 | |
| 19 Benzo[a]anthracene | 228 | 8.927 | 8.916 | 0.011 | 97 | 317632 | 1.00 | 5.58 | |
| 20 Chrysene | 228 | 8.959 | 8.953 | 0.006 | 94 | 345625 | 1.00 | 6.62 | |
| 21 Benzo[b]fluoranthene | 252 | 9.964 | 9.948 | 0.016 | 98 | 422644 | 1.00 | 7.37 | |
| 22 Benzo[k]fluoranthene | 252 | 9.986 | 9.975 | 0.011 | 99 | 217253 | 1.00 | 3.96 | M |
| 23 Benzo[a]pyrene | 252 | 10.237 | 10.221 | 0.016 | 97 | 262311 | 1.00 | 5.56 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.130 | 11.109 | 0.021 | 99 | 198581 | 1.00 | 3.72 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.152 | 11.136 | 0.016 | 93 | 99127 | 1.00 | 2.40 | |
| 26 Benzo[g,h,i]perylene | 276 | 11.344 | 11.323 | 0.021 | 91 | 181779 | 1.00 | 4.21 | |

## QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated

## Reagents:

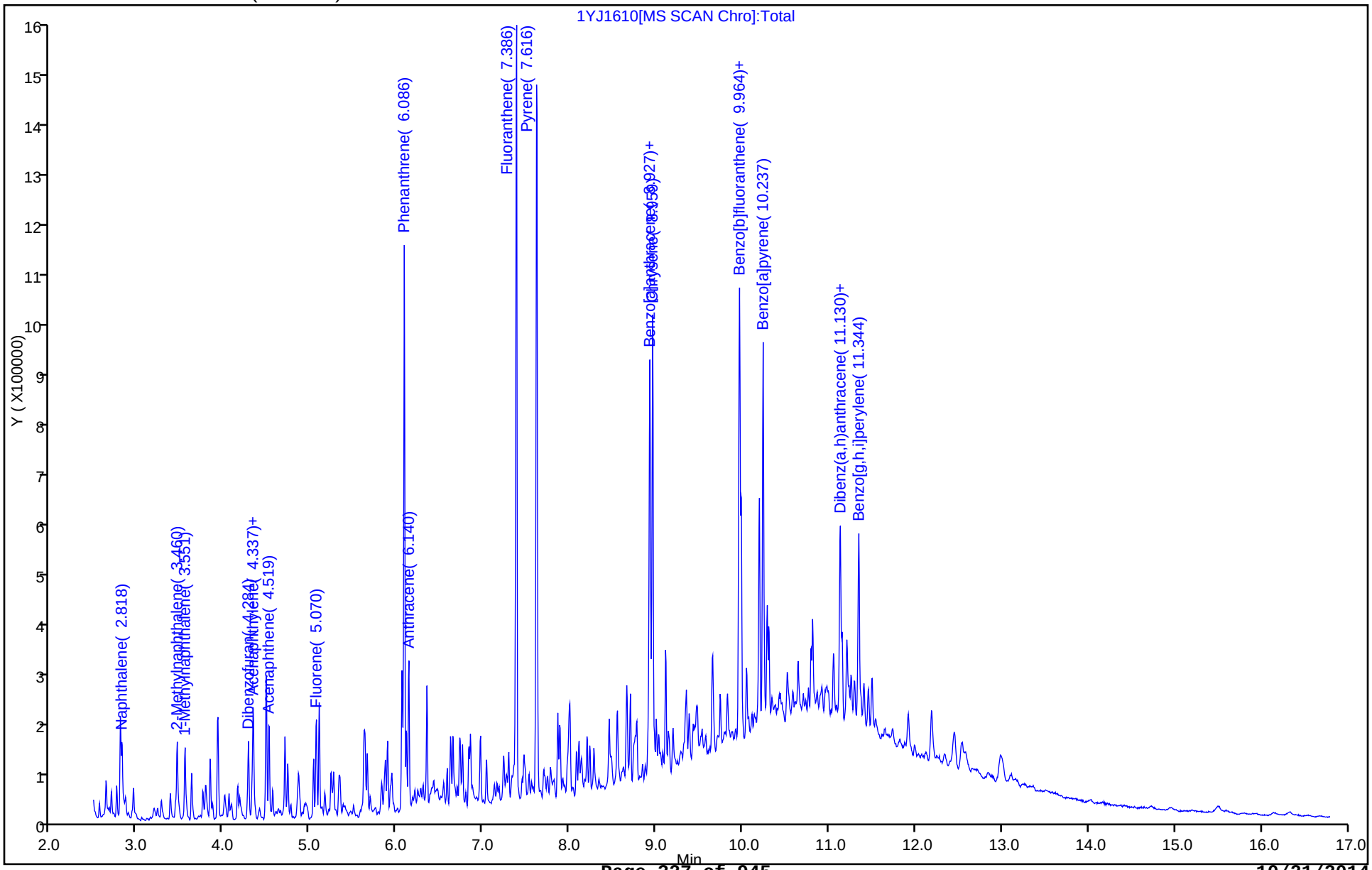
SM-LLISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 17-Oct-2014 08:59:22 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1610.D | | | | |
| Injection Date: | 16-Oct-2014 12:50:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | 680-106200-A-18-C MSD | | | Worklist Smp#: | 10 |
| Client ID: | CV0971WW-CS6 | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | ALS Bottle#: | 9 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)



Manual Integration/User Assign Peak Report

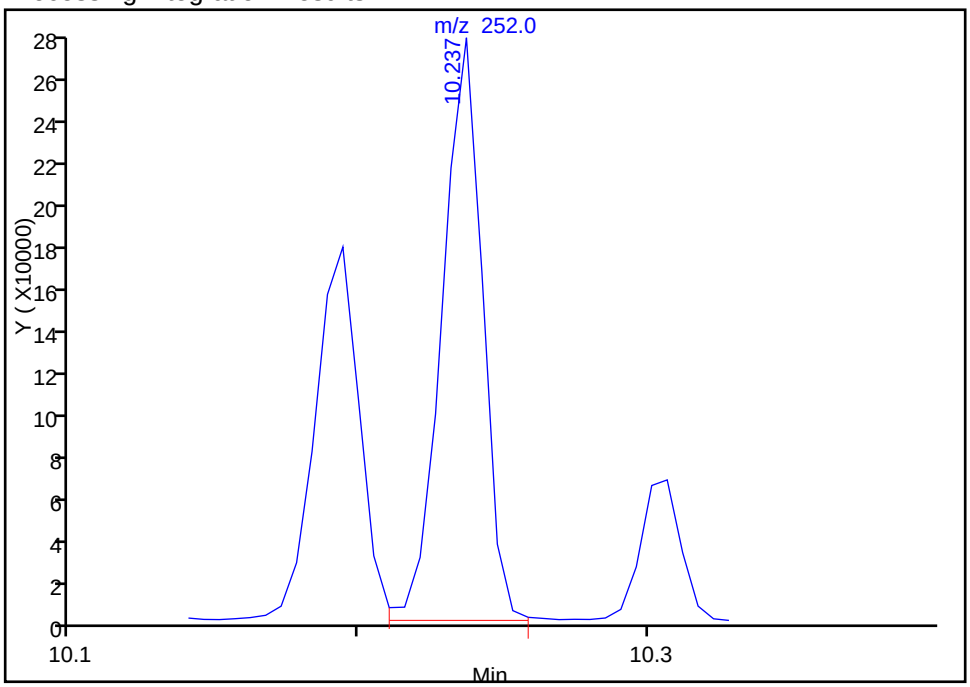
TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141016-13814.b\1YJ1610.D | | | | |
| Injection Date: | 16-Oct-2014 12:50:30 | Instrument ID: | CMSY | | |
| Lims ID: | 680-106200-A-18-C MSD | | | | |
| Client ID: | CV0971WW-CS6 | | | | |
| Operator ID: | RM | ALS Bottle#: | 9 | Worklist Smp#: | 10 |
| Injection Vol: | 2.0 ul | Dil. Factor: | 10.0000 | | |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |
| Column: | Restek RXi-5Sil MS ( 0.25 mm) | Detector | MS SCAN | | |

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

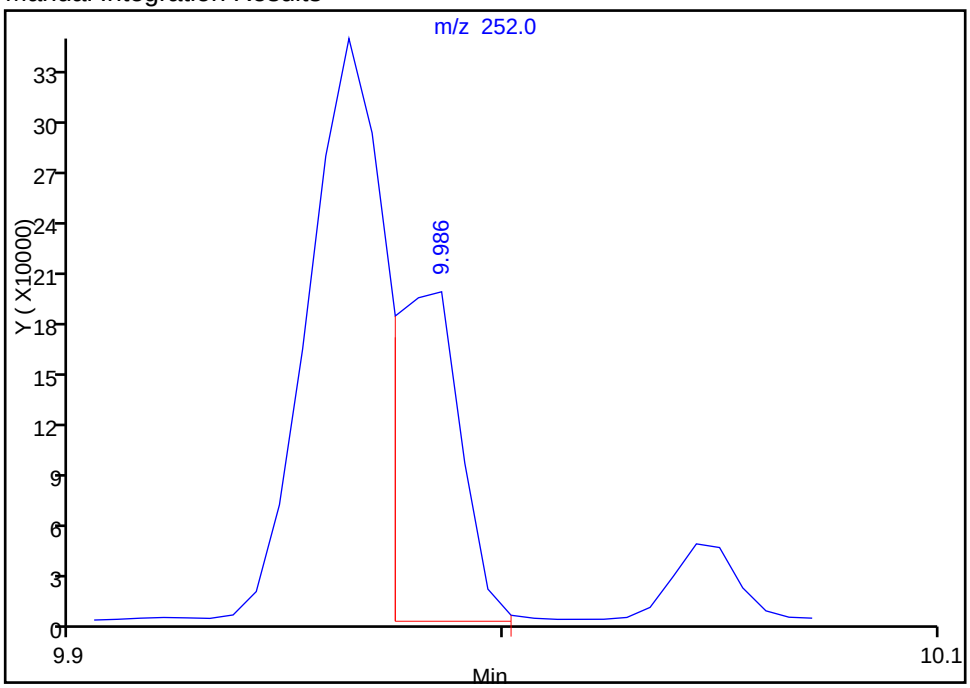
Processing Integration Results

RT: 10.24
Response: 263218
Amount: 4.819937




Manual Integration Results

RT: 9.99
Response: 217253
Amount: 3.963547




Reviewer: webbk, 16-Oct-2014 13:56:58
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-106200-2

SDG No.: 680-106200-02

Client Sample ID: | Lab Sample ID: 680-106200-A-1-E MSD

Matrix: Solid | Lab File ID: 2YJ1510.D

Analysis Method: 8270D_LL_PAH | Date Collected: 10/09/2014 09:00

Extract. Method: 3546 | Date Extracted: 10/14/2014 10:14

Sample wt/vol: 30.10(g) | Date Analyzed: 10/15/2014 16:05

Con. Extract Vol.: 1(mL) | Dilution Factor: 20

Injection Volume: 2(uL) | Level: (low/med) Low

% Moisture: 8.9 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 353689 | Units: ug/Kg

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|---|---|---|---|---|---|
| 83-32-9 | Acenaphthene | 302 | | 150 | 72 |
| 208-96-8 | Acenaphthylene | 295 | | 150 | 72 |
| 120-12-7 | Anthracene | 350 | | 150 | 72 |
| 56-55-3 | Benzo[a]anthracene | 767 | | 150 | 72 |
| 50-32-8 | Benzo[a]pyrene | 798 | | 150 | 26 |
| 205-99-2 | Benzo[b]fluoranthene | 1190 | | 150 | 72 |
| 191-24-2 | Benzo[g,h,i]perylene | 595 | | 150 | 72 |
| 207-08-9 | Benzo[k]fluoranthene | 585 | | 150 | 44 |
| 218-01-9 | Chrysene | 1000 | | 150 | 72 |
| 53-70-3 | Dibenz(a,h)anthracene | 411 | | 150 | 72 |
| 206-44-0 | Fluoranthene | 1130 | | 150 | 72 |
| 86-73-7 | Fluorene | 301 | | 150 | 72 |
| 193-39-5 | Indeno[1,2,3-cd]pyrene | 552 | | 150 | 72 |
| 90-12-0 | 1-Methylnaphthalene | 463 | | 150 | 68 |
| 91-57-6 | 2-Methylnaphthalene | 466 | | 150 | 72 |
| 91-20-3 | Naphthalene | 400 | | 150 | 72 |
| 85-01-8 | Phenanthrene | 855 | | 150 | 53 |
| 129-00-0 | Pyrene | 1150 | | 150 | 72 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 0 | D | 36-131 |

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1510.D
Lims ID: 680-106200-A-1-E MSD
Client ID: CV0005Y-CS6
Sample Type: MSD
Inject. Date: 15-Oct-2014 16:05:30 ALS Bottle#: 8 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 20.0000
Sample Info: 106200-A-1-E MSD 1:20
Misc. Info.: 680-0013789-010
Operator ID: RM Instrument ID: CMSY

Method: \\SAVCHROM\ChromData\CMSY\20141015-13789.b\8270D_LLPAH_MSY.m
Limit Group: 8270D_LL_PAH
Last Update: 16-Oct-2014 08:46:57 Calib Date: 07-Oct-2014 15:41:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSY\20141007-13559.b\3YJ0707.D

Column 1 : Restek RXi-5Sil MS ( 0.25 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: webbk Date: 15-Oct-2014 16:31:29

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/ml | OnCol Amt ug/ml | Flags |
|---|---|---|---|---|---|---|---|---|---|
| * 1 Naphthalene-d8 | 136 | 2.861 | 2.856 | 0.005 | 98 | 145922 | 0.1000 | 2.00 | |
| * 2 Acenaphthene-d10 | 164 | 4.551 | 4.546 | 0.005 | 91 | 80639 | 0.1000 | 2.00 | |
| * 3 Phenanthrene-d10 | 188 | 6.124 | 6.124 | 0.000 | 98 | 130451 | 0.1000 | 2.00 | |
| * 4 Chrysene-d12 | 240 | 9.001 | 8.996 | 0.005 | 99 | 116389 | 0.1000 | 2.00 | |
| * 5 Perylene-d12 | 264 | 10.349 | 10.344 | 0.005 | 99 | 99590 | 0.1000 | 2.00 | |
| 7 Naphthalene | 128 | 2.877 | 2.877 | 0.000 | 99 | 43623 | 0.5000 | 0.5481 | |
| 8 2-Methylnaphthalene | 142 | 3.519 | 3.514 | 0.005 | 87 | 33725 | 0.5000 | 0.6390 | |
| 9 1-Methylnaphthalene | 142 | 3.610 | 3.605 | 0.005 | 92 | 31053 | 0.5000 | 0.6345 | |
| 13 Dibenzofuran | 168 | 4.343 | 4.225 | 0.118 | 29 | 3348 | NC | NC | |
| 10 1,1'-Biphenyl | 154 | 4.396 | 4.396 | 0.000 | 0 | 421 | NC | NC | |
| 11 Acenaphthylene | 152 | 4.396 | 4.396 | 0.000 | 98 | 31629 | 0.5000 | 0.4048 | |
| 12 Acenaphthene | 153 | 4.583 | 4.584 | -0.001 | 94 | 20784 | 0.5000 | 0.4140 | |
| 14 Fluorene | 166 | 5.129 | 5.129 | 0.000 | 95 | 22855 | 0.5000 | 0.4124 | |
| 15 Phenanthrene | 178 | 6.150 | 6.151 | -0.001 | 96 | 91505 | 0.5000 | 1.17 | |
| 16 Anthracene | 178 | 6.204 | 6.204 | 0.000 | 99 | 37196 | 0.5000 | 0.4791 | |
| 17 Fluoranthene | 202 | 7.445 | 7.445 | 0.000 | 98 | 128398 | 0.5000 | 1.55 | |
| 18 Pyrene | 202 | 7.680 | 7.680 | 0.000 | 98 | 119506 | 0.5000 | 1.57 | |
| 19 Benzo[a]anthracene | 228 | 8.991 | 8.991 | 0.000 | 98 | 71606 | 0.5000 | 1.05 | |
| 20 Chrysene | 228 | 9.023 | 9.023 | 0.000 | 99 | 88597 | 0.5000 | 1.37 | |
| 21 Benzo[b]fluoranthene | 252 | 10.023 | 10.023 | 0.000 | 99 | 107250 | 0.5000 | 1.64 | |
| 22 Benzo[k]fluoranthene | 252 | 10.044 | 10.050 | -0.006 | 98 | 50872 | 0.5000 | 0.8014 | |
| 23 Benzo[a]pyrene | 252 | 10.296 | 10.296 | 0.000 | 98 | 58953 | 0.5000 | 1.09 | |
| 24 Indeno[1,2,3-cd]pyrene | 276 | 11.200 | 11.200 | 0.000 | 99 | 48352 | 0.5000 | 0.7567 | |
| 25 Dibenz(a,h)anthracene | 278 | 11.226 | 11.227 | -0.001 | 97 | 26535 | 0.5000 | 0.5633 | |
| 26 Benzo[g,h,i]perylene | 276 | 11.424 | 11.424 | 0.000 | 98 | 40103 | 0.5000 | 0.8162 | |

## QC Flag Legend

Processing Flags
NC - Not Calibrated

## Reagents:

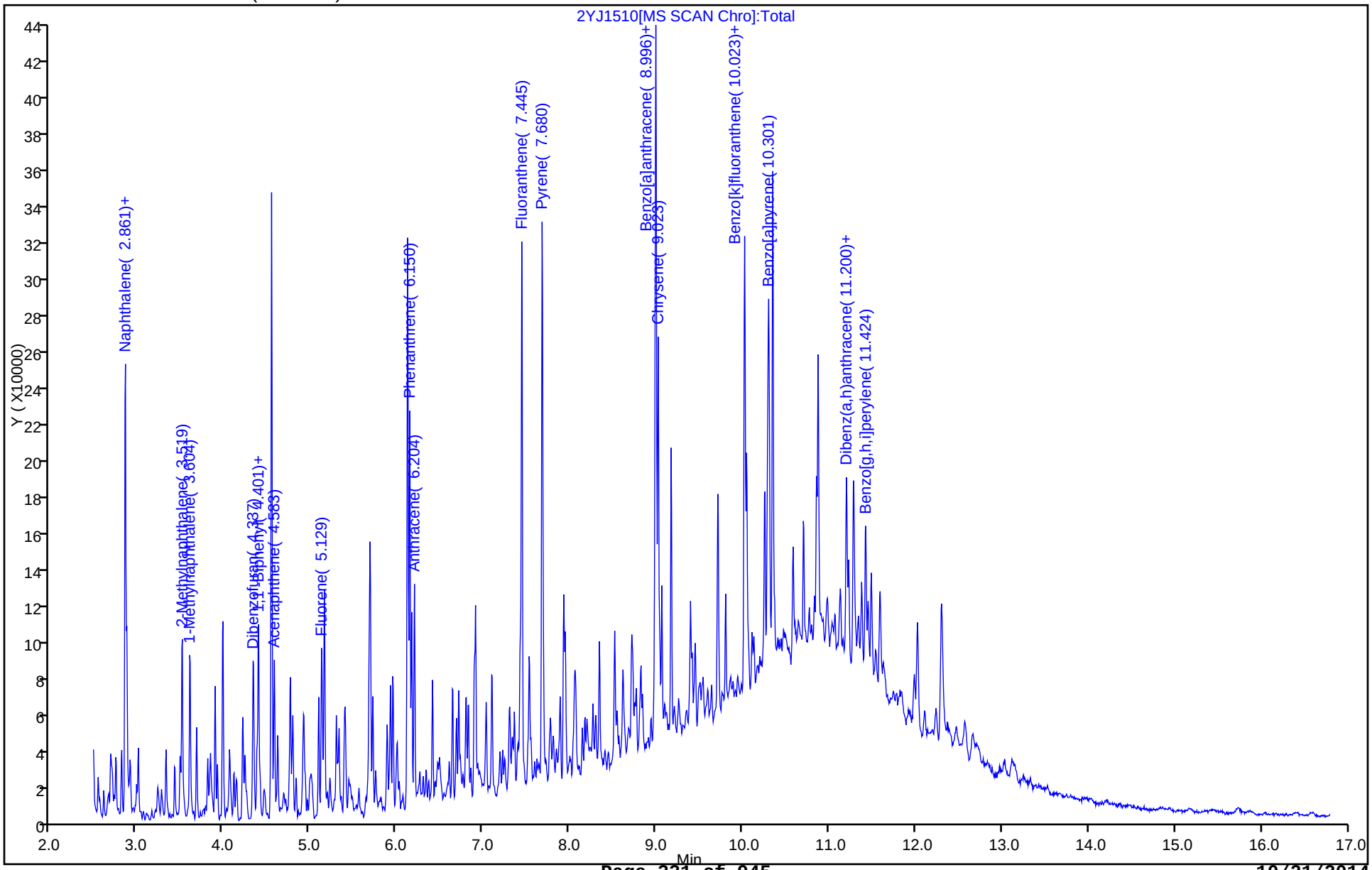
SM-LLISTD_00106 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 16-Oct-2014 08:47:08 Chrom Revision: 2.2 18-Aug-2014 12:17:36

TestAmerica Savannah

| | | | | | |
|---|---|---|---|---|---|
| Data File: | \\SAVCHROM\ChromData\CMSY\20141015-13789.b\2YJ1510.D | | | | |
| Injection Date: | 15-Oct-2014 16:05:30 | Instrument ID: | CMSY | Operator ID: | RM |
| Lims ID: | 680-106200-A-1-E MSD | | | Worklist Smp#: | 10 |
| Client ID: | CV0005Y-CS6 | | | | |
| Injection Vol: | 2.0 ul | Dil. Factor: | 20.0000 | ALS Bottle#: | 8 |
| Method: | 8270D_LLPAH_MSY | Limit Group: | 8270D_LL_PAH | | |

Column: Restek RXi-5Sil MS ( 0.25 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Instrument ID: CMSY Start Date: 10/07/2014 13:30

Analysis Batch Number: 352391 End Date: 10/07/2014 23:50

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| DFTPP 680-352391/1 | | 10/07/2014 13:30 | 1 | 3YJ0701.D | RXi- 5Sil MS 0.25(mm) |
| ICIS 680-352391/2 | | 10/07/2014 13:49 | 1 | 3YJ0702.D | RXi- 5Sil MS 0.25(mm) |
| IC 680-352391/3 | | 10/07/2014 14:12 | 1 | 3YJ0703.D | RXi- 5Sil MS 0.25(mm) |
| IC 680-352391/4 | | 10/07/2014 14:34 | 1 | 3YJ0704.D | RXi- 5Sil MS 0.25(mm) |
| IC 680-352391/5 | | 10/07/2014 14:56 | 1 | 3YJ0705.D | RXi- 5Sil MS 0.25(mm) |
| IC 680-352391/6 | | 10/07/2014 15:18 | 1 | 3YJ0706.D | RXi- 5Sil MS 0.25(mm) |
| IC 680-352391/7 | | 10/07/2014 15:41 | 1 | 3YJ0707.D | RXi- 5Sil MS 0.25(mm) |
| IC 680-352391/8 | | 10/07/2014 16:03 | 1 | 3YJ0708.D | RXi- 5Sil MS 0.25(mm) |
| ICV 680-352391/9 | | 10/07/2014 16:25 | 1 | 3YJ0709.D | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/07/2014 16:48 | 1 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/07/2014 17:10 | 1 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/07/2014 17:32 | 1 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/07/2014 17:55 | 1 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/07/2014 18:17 | 1 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/07/2014 18:39 | 1 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/07/2014 19:01 | 20 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/07/2014 19:24 | 20 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/07/2014 19:46 | 20 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/07/2014 20:08 | 1 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/07/2014 20:31 | 1 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/07/2014 21:15 | 1 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/07/2014 21:37 | 1 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/07/2014 22:00 | 1 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/07/2014 22:22 | 1 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/07/2014 22:44 | 20 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/07/2014 23:06 | 20 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/07/2014 23:28 | 20 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/07/2014 23:50 | 20 | | RXi- 5Sil MS 0.25(mm) |

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Instrument ID: CMSY Start Date: 10/15/2014 12:48

Analysis Batch Number: 353689 End Date: 10/15/2014 23:28

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| DFTPP 680-353689/3 | | 10/15/2014 12:48 | 1 | 2YJ1503.D | RXi- 5Sil MS 0.25(mm) |
| CCVIS 680-353689/4 | | 10/15/2014 13:05 | 1 | 2YJ1504.D | RXi- 5Sil MS 0.25(mm) |
| RL 680-353689/5 | | 10/15/2014 13:27 | 1 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/15/2014 13:49 | 1 | | RXi- 5Sil MS 0.25(mm) |
| MB 680-353328/21-A | | 10/15/2014 14:59 | 1 | 2YJ1507.D | RXi- 5Sil MS 0.25(mm) |
| LCS 680-353328/22-A | | 10/15/2014 15:21 | 1 | 2YJ1508.D | RXi- 5Sil MS 0.25(mm) |
| 680-106200-A-1-D MS | | 10/15/2014 15:43 | 20 | 2YJ1509.D | RXi- 5Sil MS 0.25(mm) |
| 680-106200-A-1-E MSD | | 10/15/2014 16:05 | 20 | 2YJ1510.D | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/15/2014 16:27 | 20 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/15/2014 16:49 | 20 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/15/2014 17:12 | 10 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/15/2014 17:34 | 10 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/15/2014 17:56 | 10 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/15/2014 18:18 | 20 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/15/2014 18:40 | 10 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/15/2014 19:02 | 10 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/15/2014 19:24 | 10 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/15/2014 19:47 | 20 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/15/2014 20:09 | 20 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/15/2014 20:31 | 10 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/15/2014 20:53 | 20 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/15/2014 21:15 | 20 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/15/2014 21:38 | 20 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/15/2014 22:00 | 20 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/15/2014 22:22 | 20 | | RXi- 5Sil MS 0.25(mm) |
| 680-106200-19 | CV0971WW-CSD6 | 10/15/2014 22:44 | 20 | 2YJ1528.D | RXi- 5Sil MS 0.25(mm) |
| 680-106200-20 | CV0971WW-CS12 | 10/15/2014 23:06 | 10 | 2YJ1529.D | RXi- 5Sil MS 0.25(mm) |
| 680-106200-21 | CV0971WW-CS18 | 10/15/2014 23:28 | 10 | 2YJ1530.D | RXi- 5Sil MS 0.25(mm) |

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Instrument ID: CMSY Start Date: 10/16/2014 09:11

Analysis Batch Number: 353862 End Date: 10/16/2014 20:19

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|---|---|---|---|---|---|
| DFTPP 680-353862/1 | | 10/16/2014 09:11 | 1 | 1YJ1601.D | RXi- 5Sil MS 0.25(mm) |
| CCVIS 680-353862/2 | | 10/16/2014 09:29 | 1 | 1YJ1602.D | RXi- 5Sil MS 0.25(mm) |
| RL 680-353862/3 | | 10/16/2014 10:02 | 1 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/16/2014 10:24 | 1 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/16/2014 10:46 | 50 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/16/2014 11:09 | 1 | | RXi- 5Sil MS 0.25(mm) |
| MB 680-353477/21-A | | 10/16/2014 11:43 | 1 | 1YJ1607.D | RXi- 5Sil MS 0.25(mm) |
| LCS 680-353477/22-A | | 10/16/2014 12:05 | 1 | 1YJ1608.D | RXi- 5Sil MS 0.25(mm) |
| 680-106200-18 MS | CV0971WW-CS6 MS | 10/16/2014 12:28 | 10 | 1YJ1609.D | RXi- 5Sil MS 0.25(mm) |
| 680-106200-18 MSD | CV0971WW-CS6 MSD | 10/16/2014 12:50 | 10 | 1YJ1610.D | RXi- 5Sil MS 0.25(mm) |
| 680-106200-18 | CV0971WW-CS6 | 10/16/2014 13:12 | 10 | 1YJ1611.D | RXi- 5Sil MS 0.25(mm) |
| 680-106200-22 | CV0971WW-CS24 | 10/16/2014 13:34 | 1 | 1YJ1612.D | RXi- 5Sil MS 0.25(mm) |
| 680-106200-23 | CV0005AC-CS6 | 10/16/2014 13:56 | 10 | 1YJ1613.D | RXi- 5Sil MS 0.25(mm) |
| 680-106200-24 | CV0005AC-CS12 | 10/16/2014 14:19 | 1 | 1YJ1614.D | RXi- 5Sil MS 0.25(mm) |
| 680-106200-25 | CV0005AC-CS18 | 10/16/2014 17:00 | 1 | 1YJ1615.D | RXi- 5Sil MS 0.25(mm) |
| 680-106200-26 | CV0005AC-CS24 | 10/16/2014 17:22 | 1 | 1YJ1616.D | RXi- 5Sil MS 0.25(mm) |
| 680-106200-27 | CV0748WW-CS6 | 10/16/2014 17:44 | 10 | 1YJ1617.D | RXi- 5Sil MS 0.25(mm) |
| 680-106200-28 | CV0748WW-CS12 | 10/16/2014 18:06 | 1 | 1YJ1618.D | RXi- 5Sil MS 0.25(mm) |
| 680-106200-29 | CV0748WW-CS18 | 10/16/2014 18:28 | 1 | 1YJ1619.D | RXi- 5Sil MS 0.25(mm) |
| 680-106200-30 | CV0748WW-CS24 | 10/16/2014 18:51 | 1 | 1YJ1620.D | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/16/2014 19:13 | 10 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/16/2014 19:35 | 10 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/16/2014 19:57 | 1 | | RXi- 5Sil MS 0.25(mm) |
| ZZZZZ | | 10/16/2014 20:19 | 1 | | RXi- 5Sil MS 0.25(mm) |

# GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Savannah  Job No.: 680-106200-2

SDG No.: 680-106200-02

Batch Number: 353328  Batch Start Date: 10/14/14 10:14  Batch Analyst: Kicklighter, Jasmine M

Batch Method: 3546  Batch End Date: 10/14/14 10:44

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | EX8270SPKL1 00015 | LLBNAwkSUR 00079 | AnalysisComment | |
|---|---|---|---|---|---|---|---|---|---|
| 680-106200-A-19 | CV0971WW-CSD6 | 3546, 8270D_LL_PAH | T | 30.03 g | 1 mL | | 1 mL | | |
| 680-106200-A-20 | CV0971WW-CS12 | 3546, 8270D_LL_PAH | T | 30.03 g | 1 mL | | 1 mL | | |
| 680-106200-A-21 | CV0971WW-CS18 | 3546, 8270D_LL_PAH | T | 30.08 g | 1 mL | | 1 mL | | |
| MB 680-353328/21 | | 3546, 8270D_LL_PAH | | 30.02 g | 1 mL | | 1 mL | | |
| LCS 680-353328/22 | | 3546, 8270D_LL_PAH | | 30.02 g | 1 mL | 100 uL | 1 mL | 8270LL SPIKE | |
| 680-106200-A-1 MS | | 3546, 8270D_LL_PAH | T | 30.15 g | 1 mL | 100 uL | 1 mL | 8270LL SPIKE | |
| 680-106200-A-1 MSD | | 3546, 8270D_LL_PAH | T | 30.10 g | 1 mL | 100 uL | 1 mL | 8270LL SPIKE | |

| Batch Notes | |
|---|---|
| Balance ID | 30 |
| Batch Comment | 8270D_LL_PAH BOX LL203 |
| Concentration End Time | 2055 |
| Concentration Start Time | 1946 |
| Person's name who did the concentration | JMK |
| Exchange Solvent Lot # | 3786881 |
| Exchange Solvent Name | MECL2 |
| Filter Paper Lot Number | 09-795G |
| Final Concentrator Volume | 1 mL |
| MeCL2 Lot # | 3786878 |
| Microwave Oven ID | 1 |
| Microwave Start Time | 1014 |
| Microwave Stop Time | 1044 |
| Na2SO4 Lot Number | 3787973 |
| Ottawa Sand Lot # | 3776812 |
| Person's name who did the prep | kac/jv |
| Person who performed Spike | JV |
| Person who witnessed spiking | KC |

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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Batch Number: 353328 Batch Start Date: 10/14/14 10:14 Batch Analyst: Kicklighter, Jasmine M

Batch Method: 3546 Batch End Date: 10/14/14 10:44

| 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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Batch Number: 353477 Batch Start Date: 10/15/14 10:01 Batch Analyst: Vasquez, Juana M

Batch Method: 3546 Batch End Date: 10/15/14 10:31

| Lab Sample ID | Client Sample ID | Method Chain | Basis | InitialAmount | FinalAmount | EX8270SPKL1 00015 | LLBNAwkSUR 00079 | AnalysisComment | |
|---|---|---|---|---|---|---|---|---|---|
| 680-106200-A-18 | CV0971WW-CS6 | 3546, 8270D_LL_PAH | T | 30.04 g | 1 mL | | 1 mL | | |
| 680-106200-A-22 | CV0971WW-CS24 | 3546, 8270D_LL_PAH | T | 30.01 g | 1 mL | | 1 mL | | |
| 680-106200-A-23 | CV0005AC-CS6 | 3546, 8270D_LL_PAH | T | 30.05 g | 1 mL | | 1 mL | | |
| 680-106200-A-24 | CV0005AC-CS12 | 3546, 8270D_LL_PAH | T | 30.05 g | 1 mL | | 1 mL | | |
| 680-106200-A-25 | CV0005AC-CS18 | 3546, 8270D_LL_PAH | T | 30.01 g | 1 mL | | 1 mL | | |
| 680-106200-A-26 | CV0005AC-CS24 | 3546, 8270D_LL_PAH | T | 30.02 g | 1 mL | | 1 mL | | |
| 680-106200-A-27 | CV0748WW-CS6 | 3546, 8270D_LL_PAH | T | 30.02 g | 1 mL | | 1 mL | | |
| 680-106200-A-28 | CV0748WW-CS12 | 3546, 8270D_LL_PAH | T | 30.04 g | 1 mL | | 1 mL | | |
| 680-106200-A-29 | CV0748WW-CS18 | 3546, 8270D_LL_PAH | T | 30.05 g | 1 mL | | 1 mL | | |
| 680-106200-A-30 | CV0748WW-CS24 | 3546, 8270D_LL_PAH | T | 29.99 g | 1 mL | | 1 mL | | |
| MB 680-353477/21 | | 3546, 8270D_LL_PAH | | 30.06 g | 1 mL | | 1 mL | | |
| LCS 680-353477/22 | | 3546, 8270D_LL_PAH | | 30.02 g | 1 mL | 100 uL | 1 mL | 8270LLSPK | |
| 680-106200-A-18 MS | CV0971WW-CS6 | 3546, 8270D_LL_PAH | T | 30.03 g | 1 mL | 100 uL | 1 mL | 8270LLSPK | |
| 680-106200-A-18 MSD | CV0971WW-CS6 | 3546, 8270D_LL_PAH | T | 30.04 g | 1 mL | 100 uL | 1 mL | 8270LLSPK | |

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.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Batch Number: 353477 Batch Start Date: 10/15/14 10:01 Batch Analyst: Vasquez, Juana M

Batch Method: 3546 Batch End Date: 10/15/14 10:31

| Batch Notes | |
|---|---|
| Balance ID | 30 |
| Batch Comment | 8270_LL_PAH BOX LL204 |
| Concentration End Time | 1542 |
| Concentration Start Time | 1407 |
| Person's name who did the concentration | JV |
| Exchange Solvent Lot # | 3792207 |
| Exchange Solvent Name | MeCl2 |
| Filter Paper Lot Number | 09-795G |
| Final Concentrator Volume | 1 mL |
| MeCl2/Acetone Lot # | 3787739 |
| Microwave Oven ID | 1 |
| Microwave Start Time | 1001 |
| Microwave Stop Time | 1031 |
| Na2SO4 Lot Number | 3796247 |
| Ottawa Sand Lot # | 3776812 |
| Person's name who did the prep | JV |
| Person who performed Spike | JV |
| Person who witnessed spiking | JW |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

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

# METALS

COVER PAGE
METALS

Lab Name: TestAmerica Savannah Job Number: 680-106200-2

SDG No.: 680-106200-02

Project: 35th Avenue Superfund Site

| Client Sample ID | Lab Sample ID |
|---|---|
| CV0971WW-CS6 | 680-106200-18 |
| CV0971WW-CSD6 | 680-106200-19 |
| CV0971WW-CS12 | 680-106200-20 |
| CV0971WW-CS18 | 680-106200-21 |
| CV0971WW-CS24 | 680-106200-22 |
| CV0005AC-CS6 | 680-106200-23 |
| CV0005AC-CS12 | 680-106200-24 |
| CV0005AC-CS18 | 680-106200-25 |
| CV0005AC-CS24 | 680-106200-26 |
| CV0748WW-CS6 | 680-106200-27 |
| CV0748WW-CS12 | 680-106200-28 |
| CV0748WW-CS18 | 680-106200-29 |
| CV0748WW-CS24 | 680-106200-30 |

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971WW-CS6
Lab Sample ID: 680-106200-18
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 13:40
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 88.0

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 14000 | 20 | 10 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 28 | 2.0 | 0.59 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 39000 | 20 | 7.0 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 170 | 1.0 | 0.53 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971WW-CSD6
Lab Sample ID: 680-106200-19
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 13:40
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 87.7

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 13000 | 21 | 10 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 29 | 2.1 | 0.61 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 41000 | 21 | 7.3 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 180 | 1.0 | 0.55 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971WW-CS12
Lab Sample ID: 680-106200-20
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 13:50
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 91.6

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 17000 | 19 | 9.3 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 16 | 1.9 | 0.55 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 36000 | 19 | 6.5 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 79 | 9.3 | 4.9 | mg/Kg | | | 10 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971WW-CS18
Lab Sample ID: 680-106200-21
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 14:00
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 91.9

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 14000 | 20 | 9.8 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 25 | 2.0 | 0.58 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 42000 | 20 | 6.9 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 48 | 0.98 | 0.52 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971WW-CS24
Lab Sample ID: 680-106200-22
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 14:10
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 91.6

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 12000 | 21 | 11 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 47 | 2.1 | 0.63 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 37000 | 21 | 7.5 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 15 | 1.1 | 0.57 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0005AC-CS6
Lab Sample ID: 680-106200-23
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 10:10
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 91.7

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 9700 | 21 | 10 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 22 | 2.1 | 0.61 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 37000 | 21 | 7.2 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 210 | 1.0 | 0.55 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0005AC-CS12
Lab Sample ID: 680-106200-24
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 10:20
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 86.6

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 13000 | 20 | 9.9 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 28 | 2.0 | 0.58 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 34000 | 20 | 6.9 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 26 | 0.99 | 0.52 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0005AC-CS18
Lab Sample ID: 680-106200-25
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 10:30
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 94.5

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 14000 | 18 | 9.0 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 28 | 1.8 | 0.53 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 37000 | 18 | 6.3 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 33 | 0.90 | 0.48 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0005AC-CS24
Lab Sample ID: 680-106200-26
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 10:40
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 86.8

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 15000 | 23 | 12 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 33 | 2.3 | 0.68 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 44000 | 23 | 8.1 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 28 | 1.2 | 0.61 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0748WW-CS6
Lab Sample ID: 680-106200-27
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 12:40
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 90.1

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 11000 | 20 | 10 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 32 | 2.0 | 0.59 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 37000 | 20 | 7.0 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 100 | 1.0 | 0.53 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0748WW-CS12
Lab Sample ID: 680-106200-28
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 12:50
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 85.8

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 12000 | 23 | 11 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 43 | 2.3 | 0.67 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 41000 | 23 | 7.9 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 26 | 1.1 | 0.60 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0748WW-CS18
Lab Sample ID: 680-106200-29
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 13:00
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 84.2

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 13000 | 24 | 12 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 57 | 2.4 | 0.69 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 51000 | 24 | 8.2 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 22 | 1.2 | 0.62 | mg/Kg | | | 1 | 6010C |

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0748WW-CS24
Lab Sample ID: 680-106200-30
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG ID.: 680-106200-02
Matrix: Solid
Date Sampled: 10/09/2014 13:10
Reporting Basis: DRY
Date Received: 10/11/2014 09:33
% Solids: 87.9

| CAS No. | Analyte | Result | RL | MDL | Units | C | Q | DIL | Method |
|---|---|---|---|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 16000 | 20 | 9.8 | mg/Kg | | | 1 | 6010C |
| 7440-38-2 | Arsenic | 27 | 2.0 | 0.58 | mg/Kg | | | 1 | 6010C |
| 7439-89-6 | Iron | 56000 | 20 | 6.9 | mg/Kg | | | 1 | 6010C |
| 7439-92-1 | Lead | 41 | 0.98 | 0.52 | mg/Kg | | | 1 | 6010C |

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah  Job No.: 680-106200-2

SDG No.: 680-106200-02

ICV Source: P_ICV_wk_00229  Concentration Units: ug/L

CCV Source: P_CCV_wk_00128

| Analyte | ICV 680-353949/4 10/15/2014 09:59 | | | | CCV 680-353949/13 10/15/2014 10:38 | | | | CCV 680-353949/94 10/15/2014 16:38 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 956 | | 1000 | 96 | 4710 | | 5000 | 94 | 4820 | | 5000 | 96 |
| **Arsenic** | 1010 | | 1000 | 101 | 459 | | 500 | 92 | 455 | | 500 | 91 |
| **Iron** | 959 | | 1000 | 96 | 4780 | | 5000 | 96 | 4870 | | 5000 | 97 |
| **Lead** | 977 | | 1000 | 98 | 484 | | 500 | 97 | 494 | | 500 | 99 |

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

ICV Source: P_ICV_wk_00229 Concentration Units: ug/L

CCV Source: P_CCV_wk_00128

| Analyte | CCV 680-353949/106 10/15/2014 17:29 | | | | CCV 680-353949/118 10/15/2014 18:23 | | | | CCV 680-353949/130 10/15/2014 19:14 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 4820 | | 5000 | 96 | 4840 | | 5000 | 97 | 4820 | | 5000 | 96 |
| **Arsenic** | 456 | | 500 | 91 | 464 | | 500 | 93 | 458 | | 500 | 92 |
| **Iron** | 4880 | | 5000 | 98 | 4900 | | 5000 | 98 | 4880 | | 5000 | 98 |
| **Lead** | 493 | | 500 | 99 | 494 | | 500 | 99 | 491 | | 500 | 98 |

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 Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

ICV Source: P_ICV_wk_00229 Concentration Units: ug/L

CCV Source: P_CCV_wk_00128

| Analyte | CCV 680-353949/142 10/15/2014 20:06 | | | | CCV 680-353949/154 10/15/2014 20:57 | | | | CCV 680-353949/166 10/15/2014 21:49 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 4830 | | 5000 | 97 | 4820 | | 5000 | 96 | 4820 | | 5000 | 96 |
| **Arsenic** | 457 | | 500 | 91 | 458 | | 500 | 92 | 459 | | 500 | 92 |
| **Iron** | 4910 | | 5000 | 98 | 4840 | | 5000 | 97 | 4830 | | 5000 | 97 |
| **Lead** | 484 | | 500 | 97 | 480 | | 500 | 96 | 481 | | 500 | 96 |

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

ICV Source: P_ICV_wk_00229 Concentration Units: ug/L

CCV Source: P_CCV_wk_00128

| Analyte | ICV 680-354233/4 10/17/2014 16:13 | | | | CCV 680-354233/13 10/17/2014 16:56 | | | | CCV 680-354233/109 10/17/2014 23:46 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 1010 | | 1000 | 101 | 4850 | | 5000 | 97 | 4790 | | 5000 | 96 |
| **Arsenic** | 1020 | | 1000 | 102 | 460 | | 500 | 92 | 458 | | 500 | 92 |
| **Iron** | 1010 | | 1000 | 101 | 4950 | | 5000 | 99 | 4810 | | 5000 | 96 |
| **Lead** | 1030 | | 1000 | 103 | 505 | | 500 | 101 | 496 | | 500 | 99 |

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

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

ICV Source: P_ICV_wk_00229 Concentration Units: ug/L

CCV Source: P_CCV_wk_00128

| Analyte | CCV 680-354233/121 10/18/2014 00:37 | | | | CCV 680-354233/133 10/18/2014 01:29 | | | | CCV 680-354233/145 10/18/2014 02:20 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Aluminum** | 4840 | | 5000 | 97 | 4880 | | 5000 | 98 | 4870 | | 5000 | 97 |
| **Arsenic** | 459 | | 500 | 92 | 465 | | 500 | 93 | 460 | | 500 | 92 |
| **Iron** | 4920 | | 5000 | 98 | 4960 | | 5000 | 99 | 4940 | | 5000 | 99 |
| **Lead** | 501 | | 500 | 100 | 507 | | 500 | 101 | 507 | | 500 | 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 Savannah  Job No.: 680-106200-2

SDG No.: 680-106200-02

ICV Source: P_ICV_wk_00229  Concentration Units: ug/L

CCV Source: P_CCV_wk_00128

| Analyte | ICV 680-354509/4 10/20/2014 15:13 | | | | CCV 680-354509/12 10/20/2014 15:51 | | | | CCV 680-354509/24 10/20/2014 16:42 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Found | C | True | %R | Found | C | True | %R | Found | C | True | %R |
| **Lead** | 1000 | | 1000 | 100 | 506 | | 500 | 101 | 503 | | 500 | 101 |
| *Aluminum* | 982 | | 1000 | 98 | 4870 | | 5000 | 97 | 4830 | | 5000 | 97 |
| *Arsenic* | 999 | | 1000 | 100 | 485 | | 500 | 97 | 481 | | 500 | 96 |
| *Iron* | 989 | | 1000 | 99 | 4950 | | 5000 | 99 | 4910 | | 5000 | 98 |

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

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Method: 6010C Instrument ID: ICPE

Lab Sample ID: CRI 680-353949/7 Concentration Units: ug/L

CRQL Check Standard Source: P_RL_Int_00034

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Aluminum | 200 | 204 | | 102 | 70-130 |
| Arsenic | 20.0 | 22.4 | | 112 | 70-130 |
| Iron | 50.0 | 200 | U | 106 | 70-130 |
| Lead | 10.0 | 11.2 | | 112 | 70-130 |

Lab Sample ID: CRI 680-353949/226 Concentration Units: ug/L

CRQL Check Standard Source: P_RL_Int_00034

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Aluminum | 200 | 218 | | 109 | 70-130 |
| Arsenic | 20.0 | 25.6 | | 128 | 70-130 |
| Iron | 50.0 | 200 | U | 103 | 70-130 |
| Lead | 10.0 | 11.4 | | 114 | 70-130 |

Lab Sample ID: CRI 680-354233/7 Concentration Units: ug/L

CRQL Check Standard Source: P_RL_Int_00035

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Aluminum | 200 | 208 | | 104 | 70-130 |
| Arsenic | 20.0 | 19.6 | J | 98 | 70-130 |
| Iron | 50.0 | 200 | U | 99 | 70-130 |
| Lead | 10.0 | 11.4 | | 114 | 70-130 |

Lab Sample ID: CRI 680-354233/151 Concentration Units: ug/L

CRQL Check Standard Source: P_RL_Int_00035

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Aluminum | 200 | 203 | | 102 | 70-130 |
| Arsenic | 20.0 | 18.0 | J | 90 | 70-130 |

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Method: 6010C Instrument ID: ICPE

Lab Sample ID: CRI 680-354233/151 Concentration Units: ug/L

CRQL Check Standard Source: P_RL_Int_00035

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Iron | 50.0 | 200 | U | 106 | 70-130 |
| Lead | 10.0 | 12.8 | | 128 | 70-130 |

Lab Sample ID: CRI 680-354509/6 Concentration Units: ug/L

CRQL Check Standard Source: P_RL_Int_00035

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Aluminum | 200 | 214 | | 107 | 70-130 |
| Arsenic | 20.0 | 22.4 | | 112 | 70-130 |
| Iron | 50.0 | 200 | U | 114 | 70-130 |
| Lead | 10.0 | 9.44 | J | 94 | 70-130 |

Lab Sample ID: CRI 680-354509/68 Concentration Units: ug/L

CRQL Check Standard Source: P_RL_Int_00035

| Analyte | CRQL Check Standard | | | | |
|---|---|---|---|---|---|
| | True | Found | Qualifiers | %R(1) | Limits |
| Aluminum | 200 | 208 | | 104 | 70-130 |
| Arsenic | 20.0 | 19.4 | J | 97 | 70-130 |
| Iron | 50.0 | 200 | U | 120 | 70-130 |
| Lead | 10.0 | 9.21 | J | 92 | 70-130 |

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Concentration Units: ug/L

| Analyte | RL | ICBIS 680-353949/5 10/15/2014 10:03 | | CCB 680-353949/14 10/15/2014 10:43 | | CCB 680-353949/95 10/15/2014 16:42 | | CCB 680-353949/107 10/15/2014 17:34 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Aluminum** | 200 | 200 | U | 200 | U | 200 | U | 200 | U |
| **Arsenic** | 20 | 20 | U | 8.88 | J | 20 | U | 20 | U |
| **Iron** | 200 | 200 | U | 200 | U | 200 | U | 200 | U |
| **Lead** | 10 | 10 | U | 10 | U | 10 | U | 10 | U |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Concentration Units: ug/L

| Analyte | RL | CCB 680-353949/119 10/15/2014 18:27 | | CCB 680-353949/131 10/15/2014 19:18 | | CCB 680-353949/143 10/15/2014 20:10 | | CCB 680-353949/155 10/15/2014 21:01 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Aluminum** | 200 | 200 | U | 200 | U | 200 | U | 200 | U |
| **Arsenic** | 20 | 20 | U | 20 | U | 20 | U | 20 | U |
| **Iron** | 200 | 200 | U | 200 | U | 200 | U | 200 | U |
| **Lead** | 10 | 10 | U | 10 | U | 10 | U | 10 | U |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Concentration Units: ug/L

| Analyte | RL | CCB 680-353949/167 10/15/2014 21:53 | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Aluminum** | 200 | 200 | U | | | | | | |
| **Arsenic** | 20 | 20 | U | | | | | | |
| **Iron** | 200 | 200 | U | | | | | | |
| **Lead** | 10 | 10 | U | | | | | | |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Concentration Units: ug/L

| Analyte | RL | ICBIS 680-354233/5 10/17/2014 16:19 | | CCB 680-354233/14 10/17/2014 17:00 | | CCB 680-354233/110 10/17/2014 23:50 | | CCB 680-354233/122 10/18/2014 00:42 | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Aluminum** | 200 | 200 | U | 200 | U | 200 | U | 200 | U |
| **Arsenic** | 20 | 20 | U | 20 | U | 20 | U | 20 | U |
| **Iron** | 200 | 200 | U | 200 | U | 200 | U | 200 | U |
| **Lead** | 10 | 10 | U | 10 | U | 10 | U | 10 | U |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Concentration Units: ug/L

| Analyte | RL | CCB 680-354233/134 10/18/2014 01:33 | | CCB 680-354233/146 10/18/2014 02:25 | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Aluminum** | 200 | 200 | U | 200 | U | | | | |
| **Arsenic** | 20 | 20 | U | 20 | U | | | | |
| **Iron** | 200 | 200 | U | 200 | U | | | | |
| **Lead** | 10 | 10 | U | 10 | U | | | | |

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Concentration Units: ug/L

| Analyte | RL | ICBIS 680-354509/5 10/20/2014 15:17 | | CCB 680-354509/13 10/20/2014 15:55 | | CCB 680-354509/25 10/20/2014 16:47 | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | Found | C | Found | C | Found | C | Found | C |
| **Lead** | 10 | 10 | U | 10 | U | 10 | U | | |
| *Aluminum* | 200 | 200 | U | 200 | U | 200 | U | | |
| *Arsenic* | 20 | 20 | U | 20 | U | 20 | U | | |
| *Iron* | 200 | 200 | U | 200 | U | 200 | U | | |

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Concentration Units: mg/Kg Lab Sample ID: MB 680-353262/1-A

Instrument Code: ICPE Batch No.: 353949

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 20 | U | | 6010C |
| 7440-38-2 | Arsenic | 2.0 | U | | 6010C |
| 7439-89-6 | Iron | 20 | U | | 6010C |
| 7439-92-1 | Lead | 0.99 | U | | 6010C |

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Concentration Units: mg/Kg Lab Sample ID: MB 680-353346/1-A

Instrument Code: ICPE Batch No.: 353949

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 19 | U | | 6010C |
| 7440-38-2 | Arsenic | 1.9 | U | | 6010C |
| 7439-89-6 | Iron | 19 | U | | 6010C |
| 7439-92-1 | Lead | 0.96 | U | | 6010C |

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Concentration Units: mg/Kg Lab Sample ID: MB 680-353312/1-A

Instrument Code: ICPE Batch No.: 354233

| CAS No. | Analyte | Concentration | C | Q | Method |
|---|---|---|---|---|---|
| 7429-90-5 | Aluminum | 19 | U | | 6010C |
| 7440-38-2 | Arsenic | 1.9 | U | | 6010C |
| 7439-89-6 | Iron | 19 | U | | 6010C |
| 7439-92-1 | Lead | 0.93 | U | | 6010C |

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah  Job No.: 680-106200-2

SDG No.: 680-106200-02

Lab Sample ID: ICSA 680-353949/8  Instrument ID: ICPE

Lab File ID: E10152014F.csv  ICS Source: P_ICSA_wk_00038

Concentration Units: ug/L

| Analyte | True Solution A | Found Solution A | Percent Recovery |
|---|---|---|---|
| **Aluminum** | **500000** | **538716** | **108** |
| **Arsenic** | | **0.911** | |
| **Iron** | **200000** | **186650** | **93** |
| **Lead** | | **-6.85** | |
| *Antimony* | | *0.752* | |
| *Barium* | | *7.02* | |
| *Beryllium* | | *-0.130* | |
| *Boron* | | *8.78* | |
| *Cadmium* | | *2.37* | |
| *Calcium* | *500000* | *497715* | *100* |
| *Chromium* | | *0.377* | |
| *Cobalt* | | *-1.54* | |
| *Copper* | | *2.42* | |
| *Magnesium* | *500000* | *509862* | *102* |
| *Manganese* | | *3.00* | |
| *Molybdenum* | | *1.53* | |
| *Nickel* | | *0.735* | |
| *Potassium* | | *11.4* | |
| *Selenium* | | *8.96* | |
| *Silver* | | *0.355* | |
| *Sodium* | | *-209* | |
| *Strontium* | | *7.98* | |
| *Thallium* | | *-14.3* | |
| *Tin* | | *-3.16* | |
| *Titanium* | | *1.01* | |
| *Vanadium* | | *-0.697* | |
| *Zinc* | | *7.29* | |

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Lab Sample ID: ICSAB 680-353949/9 Instrument ID: ICPE

Lab File ID: E10152014F.csv ICS Source: P_ICSAB_wk_00053

Concentration Units: ug/L

| Analyte | True Solution AB | Found Solution AB | Percent Recovery |
|---|---|---|---|
| **Aluminum** | **500000** | **551561** | **110** |
| **Arsenic** | **100** | **110** | **110** |
| **Iron** | **200000** | **190934** | **95** |
| **Lead** | **50.0** | **40.8** | **82** |
| *Antimony* | *600* | *641* | *107* |
| *Barium* | *500* | *516* | *103* |
| *Beryllium* | *500* | *489* | *98* |
| *Boron* | | *6.63* | |
| *Cadmium* | *1000* | *942* | *94* |
| *Calcium* | *500000* | *509506* | *102* |
| *Chromium* | *500* | *491* | *98* |
| *Cobalt* | *500* | *480* | *96* |
| *Copper* | *500* | *590* | *118* |
| *Magnesium* | *500000* | *520762* | *104* |
| *Manganese* | *500* | *517* | *103* |
| *Molybdenum* | *1000* | *990* | *99* |
| *Nickel* | *1000* | *926* | *93* |
| *Potassium* | | *7.31* | |
| *Selenium* | *50.0* | *58.2* | *116* |
| *Silver* | *200* | *227* | *113* |
| *Sodium* | | *-27.3* | |
| *Strontium* | | *9.38* | |
| *Thallium* | *100* | *83.1* | *83* |
| *Tin* | *1000* | *982* | *98* |
| *Titanium* | | *0.348* | |
| *Vanadium* | *500* | *492* | *98* |
| *Zinc* | *1000* | *932* | *93* |

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Lab Sample ID: ICSA 680-354233/8 Instrument ID: ICPE

Lab File ID: E10172014FINAL.csv ICS Source: P_ICSA_wk_00038

Concentration Units: ug/L

| Analyte | True Solution A | Found Solution A | Percent Recovery |
|---|---|---|---|
| **Aluminum** | **500000** | **530497** | **106** |
| **Arsenic** | | **-1.89** | |
| **Iron** | **200000** | **188313** | **94** |
| **Lead** | | **7.39** | |
| *Antimony* | | *0.530* | |
| *Barium* | | *-2.39* | |
| *Beryllium* | | *-0.158* | |
| *Boron* | | *-0.913* | |
| *Cadmium* | | *-0.671* | |
| *Calcium* | *500000* | *498668* | *100* |
| *Chromium* | | *0.438* | |
| *Cobalt* | | *-0.777* | |
| *Copper* | | *1.93* | |
| *Magnesium* | *500000* | *510002* | *102* |
| *Manganese* | | *2.94* | |
| *Molybdenum* | | *2.44* | |
| *Nickel* | | *-0.970* | |
| *Potassium* | | *4.06* | |
| *Selenium* | | *2.43* | |
| *Silver* | | *-0.0161* | |
| *Sodium* | | *-82.1* | |
| *Strontium* | | *6.92* | |
| *Thallium* | | *-10.0* | |
| *Tin* | | *-1.34* | |
| *Titanium* | | *0.964* | |
| *Vanadium* | | *-4.55* | |
| *Zinc* | | *9.67* | |

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah  Job No.: 680-106200-2

SDG No.: 680-106200-02

Lab Sample ID: ICSAB 680-354233/9  Instrument ID: ICPE

Lab File ID: E10172014FINAL.csv  ICS Source: P_ICSAB_wk_00053

Concentration Units: ug/L

| Analyte | True Solution AB | Found Solution AB | Percent Recovery |
|---|---|---|---|
| **Aluminum** | **500000** | **551310** | **110** |
| **Arsenic** | **100** | **103** | **103** |
| **Iron** | **200000** | **193177** | **97** |
| **Lead** | **50.0** | **48.6** | **97** |
| *Antimony* | *600* | *653* | *109* |
| *Barium* | *500* | *525* | *105* |
| *Beryllium* | *500* | *491* | *98* |
| *Boron* | | *3.45* | |
| *Cadmium* | *1000* | *981* | *98* |
| *Calcium* | *500000* | *475253* | *95* |
| *Chromium* | *500* | *491* | *98* |
| *Cobalt* | *500* | *477* | *95* |
| *Copper* | *500* | *573* | *115* |
| *Magnesium* | *500000* | *521072* | *104* |
| *Manganese* | *500* | *487* | *97* |
| *Molybdenum* | *1000* | *989* | *99* |
| *Nickel* | *1000* | *942* | *94* |
| *Potassium* | | *2.31* | |
| *Selenium* | *50.0* | *52.4* | *105* |
| *Silver* | *200* | *222* | *111* |
| *Sodium* | | *-122* | |
| *Strontium* | | *7.78* | |
| *Thallium* | *100* | *84.1* | *84* |
| *Tin* | *1000* | *991* | *99* |
| *Titanium* | | *0.276* | |
| *Vanadium* | *500* | *473* | *95* |
| *Zinc* | *1000* | *938* | *94* |

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah  Job No.: 680-106200-2

SDG No.: 680-106200-02

Lab Sample ID: ICSA 680-354509/7  Instrument ID: ICPE

Lab File ID: E10202014F.csv  ICS Source: P_ICSA_wk_00038

Concentration Units: ug/L

| Analyte | True Solution A | Found Solution A | Percent Recovery |
|---|---|---|---|
| **Lead** | | **6.17** | |
| *Aluminum* | *500000* | *527465* | *105* |
| *Antimony* | | *1.45* | |
| *Arsenic* | | *0.395* | |
| *Barium* | | *-0.785* | |
| *Beryllium* | | *-0.132* | |
| *Boron* | | *2.27* | |
| *Cadmium* | | *0.0047* | |
| *Calcium* | *500000* | *512809* | *103* |
| *Chromium* | | *0.331* | |
| *Cobalt* | | *-0.744* | |
| *Copper* | | *1.64* | |
| *Iron* | *200000* | *186607* | *93* |
| *Magnesium* | *500000* | *505113* | *101* |
| *Manganese* | | *3.86* | |
| *Molybdenum* | | *1.72* | |
| *Nickel* | | *0.0529* | |
| *Potassium* | | *4.60* | |
| *Selenium* | | *1.67* | |
| *Silver* | | *0.179* | |
| *Sodium* | | *-223* | |
| *Strontium* | | *6.80* | |
| *Thallium* | | *-6.87* | |
| *Tin* | | *-2.58* | |
| *Titanium* | | *1.01* | |
| *Vanadium* | | *-4.63* | |
| *Zinc* | | *9.13* | |

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Lab Sample ID: ICSAB 680-354509/8 Instrument ID: ICPE

Lab File ID: E10202014F.csv ICS Source: P_ICSAB_wk_00053

Concentration Units: ug/L

| Analyte | True Solution AB | Found Solution AB | Percent Recovery |
|---|---|---|---|
| **Lead** | **50.0** | **48.8** | **98** |
| *Aluminum* | *500000* | *539307* | *108* |
| *Antimony* | *600* | *641* | *107* |
| *Arsenic* | *100* | *96.5* | *97* |
| *Barium* | *500* | *508* | *102* |
| *Beryllium* | *500* | *483* | *97* |
| *Boron* | | *3.29* | |
| *Cadmium* | *1000* | *934* | *93* |
| *Calcium* | *500000* | *497436* | *99* |
| *Chromium* | *500* | *489* | *98* |
| *Cobalt* | *500* | *476* | *95* |
| *Copper* | *500* | *569* | *114* |
| *Iron* | *200000* | *189700* | *95* |
| *Magnesium* | *500000* | *513119* | *103* |
| *Manganese* | *500* | *511* | *102* |
| *Molybdenum* | *1000* | *979* | *98* |
| *Nickel* | *1000* | *923* | *92* |
| *Potassium* | | *2.48* | |
| *Selenium* | *50.0* | *59.9* | *120* |
| *Silver* | *200* | *224* | *112* |
| *Sodium* | | *-156* | |
| *Strontium* | | *6.67* | |
| *Thallium* | *100* | *81.4* | *81* |
| *Tin* | *1000* | *975* | *97* |
| *Titanium* | | *0.336* | |
| *Vanadium* | *500* | *482* | *96* |
| *Zinc* | *1000* | *922* | *92* |

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: CV0971WW-CS6 MS
Lab ID: 680-106200-18 MS
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG No.: 680-106200-02
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 88.0

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 14100 | | 14000 | | 503 | 30 | 75-125 | 4 | 6010C |
| Arsenic | 41.2 | | 28 | | 10.1 | 134 | 75-125 | F1 | 6010C |
| Iron | 45900 | | 39000 | | 503 | 1414 | 75-125 | 4 | 6010C |
| Lead | 195 | | 170 | | 50.3 | 47 | 75-125 | F1 | 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

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 

Lab ID: 680-106200-A-51-A MS

Lab Name: TestAmerica Savannah

Job No.: 680-106200-2

SDG No.: 680-106200-02

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 87.3

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 15400 | | 13000 | | 498 | 385 | 75-125 | 4 | 6010C |
| Arsenic | 47.3 | | 28 | | 9.96 | 194 | 75-125 | F1 | 6010C |
| Iron | 51900 | | 41000 | | 498 | 2193 | 75-125 | 4 | 6010C |
| Lead | 385 | | 340 | | 49.8 | 99 | 75-125 | 4 | 6010C |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 
Lab ID: 680-106200-A-1-A MS
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG No.: 680-106200-02
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 91.1

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 15000 | | 12000 | | 544 | 568 | 75-125 | 4 | 6010C |
| Arsenic | 36.5 | | 28 | | 10.9 | 83 | 75-125 | | 6010C |
| Iron | 48100 | | 47000 | | 544 | 202 | 75-125 | 4 | 6010C |
| Lead | 280 | | 220 | | 54.4 | 104 | 75-125 | 4 | 6010C |

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: CV0971WW-CS6 MSD

Lab ID: 680-106200-18 MSD

Lab Name: TestAmerica Savannah

Job No.: 680-106200-2

SDG No.: 680-106200-02

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 88.0

| Analyte | (SDR) | C | Spike Added (SA) | %R | Control Limit %R | RPD | RPD Limit | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 14400 | | 507 | 91 | 75-125 | 2 | 20 | 4 | 6010C |
| Arsenic | 36.1 | | 10.1 | 83 | 75-125 | 13 | 20 | | 6010C |
| Iron | 36100 | | 507 | -526 | 75-125 | 24 | 20 | 4 F2 | 6010C |
| Lead | 211 | | 50.7 | 78 | 75-125 | 8 | 20 | | 6010C |

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: _____ Lab ID: 680-106200-A-51-B MSD

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Matrix: Solid Concentration Units: mg/Kg

% Solids: 87.3

| Analyte | (SDR) | C | Spike Added (SA) | %R | Control Limit %R | RPD | RPD Limit | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 15900 | | 498 | 502 | 75-125 | 4 | 20 | 4 | 6010C |
| Arsenic | 39.9 | | 9.96 | 120 | 75-125 | 17 | 20 | | 6010C |
| Iron | 47700 | | 498 | 1362 | 75-125 | 8 | 20 | 4 | 6010C |
| Lead | 363 | | 49.8 | 55 | 75-125 | 6 | 20 | 4 | 6010C |

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: _____ Lab ID: 680-106200-A-1-B MSD

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Matrix: Solid Concentration Units: mg/Kg

% Solids: 91.1

| Analyte | (SDR) | C | Spike Added (SA) | %R | Control Limit %R | RPD | RPD Limit | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 14000 | | 544 | 395 | 75-125 | 6 | 20 | 4 | 6010C |
| Arsenic | 41.9 | | 10.9 | 131 | 75-125 | 14 | 20 | F1 | 6010C |
| Iron | 47300 | | 544 | 56 | 75-125 | 2 | 20 | 4 | 6010C |
| Lead | 336 | | 54.4 | 206 | 75-125 | 18 | 20 | 4 | 6010C |

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: CV0971WW-CS6 PDS
Lab ID: 680-106200-18 PDS
Lab Name: TestAmerica Savannah
Job No.: 680-106200-2
SDG No.: 680-106200-02
Matrix: Solid
Concentration Units: mg/Kg

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 14000 | | 14000 | | 101 | NC | 80-120 | | 6010C |
| Arsenic | 37.7 | | 28 | | 10.1 | 99 | 80-120 | | 6010C |
| Iron | 39200 | | 39000 | | 1010 | NC | 80-120 | | 6010C |
| Lead | 178 | | 170 | | 10.1 | NC | 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.

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: _____ Lab ID: 680-106200-B-51-A PDS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Matrix: Solid Concentration Units: mg/Kg

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 13500 | | 13000 | | 101 | NC | 80-120 | | 6010C |
| Arsenic | 38.4 | | 28 | | 10.1 | 104 | 80-120 | | 6010C |
| Iron | 41400 | | 41000 | | 1010 | NC | 80-120 | | 6010C |
| Lead | 341 | | 340 | | 10.1 | NC | 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.

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: _____ Lab ID: 680-106200-B-1-A PDS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Matrix: Solid Concentration Units: mg/Kg

| Analyte | SSR | C | Sample Result (SR) | C | Spike Added (SA) | %R | Control Limit %R | Q | Method |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 11900 | | 12000 | | 109 | NC | 80-120 | | 6010C |
| Arsenic | 37.2 | | 28 | | 10.9 | 88 | 80-120 | | 6010C |
| Iron | 47300 | | 47000 | | 1090 | NC | 80-120 | | 6010C |
| Lead | 335 | | 220 | | 109 | 101 | 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.

FORM VB - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 680-353346/2-A

Lab Name: TestAmerica Savannah  Job No.: 680-106200-2

Sample Matrix: Solid  LCS Source: MS_LCS1_WK_00014

| Analyte | Solid(mg/Kg) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Aluminum | 463 | 441 | | 95 | 80 | 120 | | 6010C |
| Arsenic | 9.26 | 10.0 | | 108 | 80 | 120 | | 6010C |
| Iron | 463 | 453 | | 98 | 80 | 120 | | 6010C |
| Lead | 46.3 | 45.5 | | 98 | 80 | 120 | | 6010C |

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 680-353262/2-A

Lab Name: TestAmerica Savannah  Job No.: 680-106200-2

Sample Matrix: Solid  LCS Source: MS_LCS1_WK_00014

| Analyte | Solid(mg/Kg) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Aluminum | 481 | 451 | | 94 | 80 | 120 | | 6010C |
| Arsenic | 9.62 | 10.0 | | 104 | 80 | 120 | | 6010C |
| Iron | 481 | 462 | | 96 | 80 | 120 | | 6010C |
| Lead | 48.1 | 46.5 | | 97 | 80 | 120 | | 6010C |

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 680-353312/2-A

Lab Name: TestAmerica Savannah  Job No.: 680-106200-2

Sample Matrix: Solid  LCS Source: MS_LCS1_WK_00014

| Analyte | Solid(mg/Kg) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | True | Found | C | %R | Limits | | Q | Method |
| Aluminum | 495 | 481 | | 97 | 80 | 120 | | 6010C |
| Arsenic | 9.90 | 9.59 | | 97 | 80 | 120 | | 6010C |
| Iron | 495 | 490 | | 99 | 80 | 120 | | 6010C |
| Lead | 49.5 | 49.8 | | 101 | 80 | 120 | | 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: 680-106200-18

SDG No: 680-106200-02

Lab Name: TestAmerica Savannah  Job No: 680-106200-2

Matrix: Solid  Concentration Units: mg/Kg

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | Method |
|---|---|---|---|---|---|---|---|
| Aluminum | 14000 | | 15200 | | 9.0 | | 6010C |
| Arsenic | 28 | | 32.3 | | NC | | 6010C |
| Iron | 39000 | | 43400 | | 12 | V | 6010C |
| Lead | 170 | | 197 | | 15 | V | 6010C |

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 680-106200-B-51-A SD

SDG No: 680-106200-02

Lab Name: TestAmerica Savannah  Job No: 680-106200-2

Matrix: Solid  Concentration Units: mg/Kg

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | Method |
|---|---|---|---|---|---|---|---|
| Aluminum | 13000 | | 13300 | | 1.3 | | 6010C |
| Arsenic | 28 | | 30.0 | | NC | | 6010C |
| Iron | 41000 | | 41700 | | 1.7 | | 6010C |
| Lead | 340 | | 351 | | 4.4 | | 6010C |

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 680-106200-B-1-A SD

SDG No: 680-106200-02

Lab Name: TestAmerica Savannah  Job No: 680-106200-2

Matrix: Solid  Concentration Units: mg/Kg

| Analyte | Initial Sample Result (I) | C | Serial Dilution Result (S) | C | % Difference | Q | Method |
|---|---|---|---|---|---|---|---|
| Aluminum | 12000 | | 12000 | | 0.93 | | 6010C |
| Arsenic | 28 | | 24.9 | | NC | | 6010C |
| Iron | 47000 | | 49800 | | 6.0 | | 6010C |
| Lead | 220 | | 214 | | 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 Savannah  Job Number: 680-106200-2

SDG Number: 680-106200-02

Matrix: Solid  Instrument ID: ICPE

Method: 6010C  MDL Date: 06/02/2009 00:00

Prep Method: 3050B

| Analyte | Wavelength/ Mass | RL (mg/Kg) | MDL (mg/Kg) |
|---|---|---|---|
| Aluminum | | 20 | 10 |
| Arsenic | | 2 | 0.59 |
| Iron | | 20 | 7 |
| Lead | | 1 | 0.53 |

9-IN
CALIBRATION BLANK DETECTION LIMITS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-106200-2

SDG Number: 680-106200-02

Matrix: Solid Instrument ID: ICPE

Method: 6010C XMDL Date: 06/02/2009 00:00

| Analyte | Wavelength/ Mass | XRL (ug/L) | XMDL (ug/L) |
|---|---|---|---|
| Aluminum | | 200 | 100 |
| Arsenic | | 20 | 5.9 |
| Iron | | 200 | 70 |
| Lead | | 10 | 5.3 |

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-106200-2

SDG No.: 680-106200-02

ICP-AES Instrument ID: ICPE Date: 04/26/2014

| Analyte | Wave Length | Ag | Al | As | B | Ba | Be | Ca | Cd | Co | Cr | Cu | Fe | K | Mg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 308.215 | | | | | | | | | -0.001000 | | | 0.000256 | | |
| Antimony | 206.834 | | | | | | 0.000900 | | | | 0.008000 | | 0.000023 | | |
| Arsenic | 188.980 | | 0.000016 | | | | | | | | | | -0.000010 | | |
| Barium | 389.178 | | | | | | | | | | | | 0.000025 | | 0.000062 |
| Beryllium | 313.042 | | | | | | | | | | | | | | |
| Boron | 249.678 | | | | | | | | | | | | -0.000141 | | |
| Cadmium | 226.502 | | | | | | | | | | | | 0.000089 | | |
| Calcium | 370.602 | | | | | | | | | | | | -0.004290 | | |
| Chromium | 267.716 | | | | | | | | -0.000200 | | | | 0.000009 | | |
| Cobalt | 228.615 | | | | | | | | | | 0.000200 | | 0.000006 | | |
| Copper | 324.754 | | | | | | | | | | | | 0.000006 | | |
| Iron | 271.441 | | | | | | | | | 0.077100 | 0.001160 | | | | |
| Lead | 220.353 | | -0.000009 | | | | | | | -0.000200 | 0.000520 | | 0.000073 | | |
| Magnesium | 279.078 | | -0.000142 | | | | | | | | | | | | |
| Manganese | 257.610 | | | | | | | | | | | | 0.000014 | | 0.000035 |
| Molybdenum | 202.032 | | | | | | | | | | | | -0.000007 | | |
| Nickel | 231.604 | | | | | | | | | -0.000800 | | | 0.000008 | | |
| Potassium | 766.491 | | | | | | | | | | | | | | |
| Selenium | 196.026 | | | | | | | | | | | | 0.000020 | | |
| Silver | 328.068 | | | | | | | | | | | | -0.000002 | | |
| Sodium | 330.237 | | | | | | | | | | | | -0.005002 | | |
| Strontium | 216.596 | | | | | | | 0.000029 | | | | | 0.000103 | | |
| Thallium | 190.794 | | | | | | | | | 0.002830 | | | -0.000125 | | |
| Tin | 189.925 | | | | | | | | | | | | | | |
| Titanium | 334.941 | | | | | | | | | | | | | | 0.000006 |
| Vanadium | 292.401 | | | | | | | | | | -0.001640 | | 0.000014 | | |
| Zinc | 206.200 | | | | | | | | | | -0.002860 | | -0.000043 | | |

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-106200-2

SDG No.: 680-106200-02

ICP-AES Instrument ID: ICPE Date: 04/26/2014

| Analyte | Wave Length | Mn | Mo | Na | Ni | Pb | Sb | Se | Sn | Sr | Ti | Tl | V | Zn | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 308.215 | | 0.008600 | | | | | | | | | | -0.014788 | | |
| Antimony | 206.834 | | -0.012400 | | | | | | 0.000200 | | | | | | |
| Arsenic | 188.980 | | -0.000430 | | | | | | | | | | | | |
| Barium | 389.178 | | 0.000218 | | | | | | | | | | 0.000095 | | |
| Beryllium | 313.042 | | -0.000082 | | | | | | | | | | -0.000200 | | |
| Boron | 249.678 | | | | | | | | | | | | | | |
| Cadmium | 226.502 | | | | | | | | | | | | | | |
| Calcium | 370.602 | 0.008900 | | | | | | | | | 0.155000 | | 0.003040 | | |
| Chromium | 267.716 | 0.000090 | | | | | | | | | 0.000040 | | -0.000200 | | |
| Cobalt | 228.615 | | -0.002400 | | | | | | -0.000060 | | 0.001850 | | | | |
| Copper | 324.754 | | 0.000550 | | | | | | | | | | -0.000200 | | |
| Iron | 271.441 | | 0.000760 | | | | | | | | | | 0.005220 | | |
| Lead | 220.353 | 0.000130 | -0.000870 | | | | | | | | -0.000325 | | | | |
| Magnesium | 279.078 | -0.007600 | | | | | | | | | | | | | |
| Manganese | 257.610 | | | | | | | | | | | | | | |
| Molybdenum | 202.032 | | | | | | | | | | | | -0.000160 | | |
| Nickel | 231.604 | | | | | | | | | | | | | | |
| Potassium | 766.491 | | | | | | | | | | | | | | |
| Selenium | 196.026 | 0.000500 | | | | | | | | | | | | | |
| Silver | 328.068 | 0.000061 | | | | | | | | -0.000400 | | | 0.000028 | | |
| Sodium | 330.237 | | | | | | | | | | -0.041825 | | | -0.515620 | |
| Strontium | 216.596 | | -0.001000 | | -0.002275 | | | | | | | | | | |
| Thallium | 190.794 | -0.000466 | -0.003133 | | | | | | | | | | 0.001500 | | |
| Tin | 189.925 | | | | | | | | | | | | | | |
| Titanium | 334.941 | | | | | | | | | | | | | | |
| Vanadium | 292.401 | | -0.006130 | | | | | | | | 0.000575 | | | | |
| Zinc | 206.200 | | | | | | | | | | | | | | |

X-IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Savannah Job No: 680-106200-2

SDG No.: 680-106200-02

Instrument ID: ICPE Date: 02/27/2012 11:40

| Analyte | Integ. Time (Sec.) | Concentration (ug/L) | Method |
|---|---|---|---|
| Aluminum | | 720000 | 6010C |
| Arsenic | | 18000 | 6010C |
| Iron | | 900000 | 6010C |
| Lead | | 18000 | 6010C |

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Prep Method: 3050B

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight (g) | Initial Volume | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 680-353262/1-A | 10/13/2014 09:39 | 353262 | 1.01 | | 100 |
| LCS 680-353262/2-A | 10/13/2014 09:39 | 353262 | 1.04 | | 100 |
| 680-106200-A-51-A MS | 10/13/2014 09:39 | 353262 | 1.15 | | 100 |
| 680-106200-A-51-B MSD | 10/13/2014 09:39 | 353262 | 1.15 | | 100 |
| 680-106200-24 | 10/13/2014 09:39 | 353262 | 1.17 | | 100 |

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Prep Method: 3050B

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight (g) | Initial Volume | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 680-353312/1-A | 10/13/2014 12:36 | 353312 | 1.08 | | 100 |
| LCS 680-353312/2-A | 10/13/2014 12:36 | 353312 | 1.01 | | 100 |
| 680-106200-A-1-A MS | 10/13/2014 12:36 | 353312 | 1.01 | | 100 |
| 680-106200-A-1-B MSD | 10/13/2014 12:36 | 353312 | 1.01 | | 100 |
| 680-106200-26 | 10/13/2014 12:36 | 353312 | 1.00 | | 100 |
| 680-106200-25 | 10/13/2014 12:36 | 353312 | 1.18 | | 100 |
| 680-106200-28 | 10/13/2014 12:36 | 353312 | 1.03 | | 100 |
| 680-106200-20 | 10/13/2014 12:36 | 353312 | 1.17 | | 100 |
| 680-106200-23 | 10/13/2014 12:36 | 353312 | 1.06 | | 100 |

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Prep Method: 3050B

| Lab Sample ID | Preparation Date | Prep Batch | Initial Weight (g) | Initial Volume | Final Volume (mL) |
|---|---|---|---|---|---|
| MB 680-353346/1-A | 10/13/2014 14:24 | 353346 | 1.04 | | 100 |
| LCS 680-353346/2-A | 10/13/2014 14:24 | 353346 | 1.08 | | 100 |
| 680-106200-18 | 10/13/2014 14:24 | 353346 | 1.13 | | 100 |
| 680-106200-18 MS | 10/13/2014 14:24 | 353346 | 1.13 | | 100 |
| 680-106200-18 MSD | 10/13/2014 14:24 | 353346 | 1.12 | | 100 |
| 680-106200-29 | 10/13/2014 14:24 | 353346 | 1.01 | | 100 |
| 680-106200-27 | 10/13/2014 14:24 | 353346 | 1.11 | | 100 |
| 680-106200-21 | 10/13/2014 14:24 | 353346 | 1.11 | | 100 |
| 680-106200-22 | 10/13/2014 14:24 | 353346 | 1.02 | | 100 |
| 680-106200-19 | 10/13/2014 14:24 | 353346 | 1.10 | | 100 |
| 680-106200-30 | 10/13/2014 14:24 | 353346 | 1.16 | | 100 |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Instrument ID: ICPE Method: 6010C

Start Date: 10/15/2014 09:46 End Date: 10/16/2014 12:26

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Al | As | Fe | Pb | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:46 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 09:54 | | | | | | | | | | | | | | | | | | | | |
| ICV 680-353949/4 | 1 | | 09:59 | X | X | X | X | | | | | | | | | | | | | | | | |
| ICBIS 680-353949/5 | 1 | | 10:03 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:07 | | | | | | | | | | | | | | | | | | | | |
| CRI 680-353949/7 | 1 | | 10:13 | X | X | X | X | | | | | | | | | | | | | | | | |
| ICSA 680-353949/8 | 1 | | 10:17 | X | X | X | X | | | | | | | | | | | | | | | | |
| ICSAB 680-353949/9 | 1 | | 10:21 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:30 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:34 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-353949/13 | 1 | | 10:38 | X | X | X | X | | | | | | | | | | | | | | | | |
| CCB 680-353949/14 | 1 | | 10:43 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:47 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:00 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:04 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:08 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:13 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:17 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:21 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:25 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-353949/25 | | | 11:30 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-353949/26 | | | 11:34 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:47 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:59 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:04 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:08 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:12 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:17 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-353949/37 | | | 12:21 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-353949/38 | | | 12:25 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:34 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:42 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Instrument ID: ICPE Method: 6010C

Start Date: 10/15/2014 09:46 End Date: 10/16/2014 12:26

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Al | As | Fe | Pb | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:46 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:59 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:03 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:08 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-353949/49 | | | 13:12 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-353949/50 | | | 13:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:20 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:25 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:33 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:46 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 13:59 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-353949/61 | | | 14:03 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-353949/62 | | | 14:07 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:12 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:20 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:24 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:33 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:37 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-353949/70 | | | 14:44 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-353949/71 | | | 14:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:52 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 14:57 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:01 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:05 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:09 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:18 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:22 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:31 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-353949/82 | | | 15:35 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-353949/83 | | | 15:39 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:43 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Instrument ID: ICPE Method: 6010C

Start Date: 10/15/2014 09:46 End Date: 10/16/2014 12:26

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Al | As | Fe | Pb | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:59 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:04 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:08 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:17 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:21 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:25 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:30 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:34 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-353949/94 | 1 | | 16:38 | X | X | X | X | | | | | | | | | | | | | | | | |
| CCB 680-353949/95 | 1 | | 16:42 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:47 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:00 | | | | | | | | | | | | | | | | | | | | |
| MB 680-353346/1-A | 1 | T | 17:04 | X | X | X | X | | | | | | | | | | | | | | | | |
| LCS 680-353346/2-A | 1 | T | 17:08 | X | X | X | X | | | | | | | | | | | | | | | | |
| 680-106200-18 | 1 | T | 17:12 | X | X | X | X | | | | | | | | | | | | | | | | |
| 680-106200-18 SD | 5 | T | 17:17 | X | X | X | X | | | | | | | | | | | | | | | | |
| 680-106200-18 PDS | 1 | T | 17:21 | X | X | X | X | | | | | | | | | | | | | | | | |
| 680-106200-18 MS | 1 | T | 17:25 | X | X | X | X | | | | | | | | | | | | | | | | |
| CCV 680-353949/106 | 1 | | 17:29 | X | X | X | X | | | | | | | | | | | | | | | | |
| CCB 680-353949/107 | 1 | | 17:34 | X | X | X | X | | | | | | | | | | | | | | | | |
| 680-106200-18 MSD | 1 | T | 17:38 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:47 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:57 | | | | | | | | | | | | | | | | | | | | |
| 680-106200-29 | 1 | T | 18:01 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:06 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:10 | | | | | | | | | | | | | | | | | | | | |
| 680-106200-27 | 1 | T | 18:14 | X | X | X | X | | | | | | | | | | | | | | | | |
| 680-106200-21 | 1 | T | 18:18 | X | X | X | X | | | | | | | | | | | | | | | | |
| CCV 680-353949/118 | 1 | | 18:23 | X | X | X | X | | | | | | | | | | | | | | | | |
| CCB 680-353949/119 | 1 | | 18:27 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:31 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:36 | | | | | | | | | | | | | | | | | | | | |
| 680-106200-22 | 1 | T | 18:40 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:44 | | | | | | | | | | | | | | | | | | | | |
| 680-106200-19 | 1 | T | 18:48 | X | X | X | X | | | | | | | | | | | | | | | | |
| 680-106200-30 | 1 | T | 18:53 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:57 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Instrument ID: ICPE Method: 6010C

Start Date: 10/15/2014 09:46 End Date: 10/16/2014 12:26

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Al | As | Fe | Pb | | | | | | | | | | | | | | | | |
| MB 680-353262/1-A | 1 | T | 19:01 | X | X | X | X | | | | | | | | | | | | | | | | |
| LCS 680-353262/2-A | 1 | T | 19:05 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:10 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-353949/130 | 1 | | 19:14 | X | X | X | X | | | | | | | | | | | | | | | | |
| CCB 680-353949/131 | 1 | | 19:18 | X | X | X | X | | | | | | | | | | | | | | | | |
| 680-106200-B-51-A SD | 5 | T | 19:23 | X | X | X | X | | | | | | | | | | | | | | | | |
| 680-106200-B-51-A PDS | 1 | T | 19:27 | X | X | X | X | | | | | | | | | | | | | | | | |
| 680-106200-A-51-A MS | 1 | T | 19:31 | X | X | X | X | | | | | | | | | | | | | | | | |
| 680-106200-A-51-B MSD | 1 | T | 19:35 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:44 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:53 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:57 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:01 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-353949/142 | 1 | | 20:06 | X | X | X | X | | | | | | | | | | | | | | | | |
| CCB 680-353949/143 | 1 | | 20:10 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:18 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:23 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:27 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:31 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:36 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:44 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:53 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-353949/154 | 1 | | 20:57 | X | X | X | X | | | | | | | | | | | | | | | | |
| CCB 680-353949/155 | 1 | | 21:01 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:06 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:10 | | | | | | | | | | | | | | | | | | | | |
| 680-106200-24 | 1 | T | 21:14 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:18 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:23 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:27 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:31 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:36 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:40 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:44 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-353949/166 | 1 | | 21:49 | X | X | X | X | | | | | | | | | | | | | | | | |
| CCB 680-353949/167 | 1 | | 21:53 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:57 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Instrument ID: ICPE Method: 6010C

Start Date: 10/15/2014 09:46 End Date: 10/16/2014 12:26

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
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| | | | | Al | As | Fe | Pb | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:01 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:06 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:10 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:14 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:19 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:23 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:27 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:32 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:36 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-353949/178 | | | 22:40 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-353949/179 | | | 22:44 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:49 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:53 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:57 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:02 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:06 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:10 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:15 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:19 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:23 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:27 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-353949/190 | | | 23:32 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-353949/191 | | | 23:36 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:40 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-353949/193 | | | 23:45 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-353949/194 | | | 23:49 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-353949/195 | | | 09:56 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-353949/196 | | | 10:00 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:04 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:09 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:13 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:17 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:22 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:30 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:35 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:39 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:43 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-353949/207 | | | 10:47 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-353949/208 | | | 10:52 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 10:56 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:00 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Instrument ID: ICPE Method: 6010C

Start Date: 10/15/2014 09:46 End Date: 10/16/2014 12:26

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
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| | | | | Al | As | Fe | Pb | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:05 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:09 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:13 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:18 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:22 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:26 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:31 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:35 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-353949/219 | | | 11:39 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-353949/220 | | | 11:44 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:48 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:52 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 11:59 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-353949/224 | | | 12:04 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-353949/225 | | | 12:08 | | | | | | | | | | | | | | | | | | | | |
| CRI 680-353949/226 | 1 | | 12:13 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 12:17 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-353949/228 | | | 12:22 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-353949/229 | | | 12:26 | | | | | | | | | | | | | | | | | | | | |

Prep Types

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13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Instrument ID: ICPE Method: 6010C

Start Date: 10/17/2014 16:00 End Date: 10/18/2014 02:55

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
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| | | | | Al | As | Fe | Pb | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:00 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:05 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:09 | | | | | | | | | | | | | | | | | | | | |
| ICV 680-354233/4 | 1 | | 16:13 | X | X | X | X | | | | | | | | | | | | | | | | |
| ICBIS 680-354233/5 | 1 | | 16:19 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:23 | | | | | | | | | | | | | | | | | | | | |
| CRI 680-354233/7 | 1 | | 16:27 | X | X | X | X | | | | | | | | | | | | | | | | |
| ICSA 680-354233/8 | 1 | | 16:32 | X | X | X | X | | | | | | | | | | | | | | | | |
| ICSAB 680-354233/9 | 1 | | 16:37 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:41 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:45 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:50 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-354233/13 | 1 | | 16:56 | X | X | X | X | | | | | | | | | | | | | | | | |
| CCB 680-354233/14 | 1 | | 17:00 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:04 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:08 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:13 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:17 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:21 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:25 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:30 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:34 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:43 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-354233/25 | | | 17:47 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-354233/26 | | | 17:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:00 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:04 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:08 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:12 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:17 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:21 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:25 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:34 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-354233/37 | | | 18:38 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-354233/38 | | | 18:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:47 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:59 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Instrument ID: ICPE Method: 6010C

Start Date: 10/17/2014 16:00 End Date: 10/18/2014 02:55

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
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| | | | | Al | As | Fe | Pb | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:04 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:08 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:12 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:21 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:25 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-354233/49 | | | 19:29 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-354233/50 | | | 19:34 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:46 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:59 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:03 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:08 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:12 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:16 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-354233/61 | | | 20:21 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-354233/62 | | | 20:25 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:33 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:46 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 20:59 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:03 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:08 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-354233/73 | | | 21:12 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-354233/74 | | | 21:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:20 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:25 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:33 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:37 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:46 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 21:59 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Instrument ID: ICPE Method: 6010C

Start Date: 10/17/2014 16:00 End Date: 10/18/2014 02:55

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
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| | | | | Al | As | Fe | Pb | | | | | | | | | | | | | | | | |
| CCV 680-354233/85 | | | 22:03 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-354233/86 | | | 22:07 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:12 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:20 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:24 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:33 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:37 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:46 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 22:50 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-354233/97 | | | 22:54 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-354233/98 | | | 22:59 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:03 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:07 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:12 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:16 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:20 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:24 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:33 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:37 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:42 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-354233/109 | 1 | | 23:46 | X | X | X | X | | | | | | | | | | | | | | | | |
| CCB 680-354233/110 | 1 | | 23:50 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 23:54 | | | | | | | | | | | | | | | | | | | | |
| MB 680-353312/1-A | 1 | T | 23:59 | X | X | X | X | | | | | | | | | | | | | | | | |
| LCS 680-353312/2-A | 1 | T | 00:03 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:07 | | | | | | | | | | | | | | | | | | | | |
| 680-106200-B-1-A SD | 5 | T | 00:12 | X | X | X | | | | | | | | | | | | | | | | | |
| 680-106200-B-1-A PDS | 1 | T | 00:16 | X | X | X | | | | | | | | | | | | | | | | | |
| 680-106200-A-1-A MS | 1 | T | 00:20 | X | X | X | | | | | | | | | | | | | | | | | |
| 680-106200-A-1-B MSD | 1 | T | 00:25 | X | X | X | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:29 | | | | | | | | | | | | | | | | | | | | |
| 680-106200-26 | 1 | T | 00:33 | X | X | X | X | | | | | | | | | | | | | | | | |
| CCV 680-354233/121 | 1 | | 00:37 | X | X | X | X | | | | | | | | | | | | | | | | |
| CCB 680-354233/122 | 1 | | 00:42 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:46 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:50 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 00:55 | | | | | | | | | | | | | | | | | | | | |
| 680-106200-25 | 1 | T | 00:59 | X | X | X | X | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Instrument ID: ICPE Method: 6010C

Start Date: 10/17/2014 16:00 End Date: 10/18/2014 02:55

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Al | As | Fe | Pb | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:03 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:07 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:12 | | | | | | | | | | | | | | | | | | | | |
| 680-106200-28 | 1 | T | 01:16 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:20 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:25 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-354233/133 | 1 | | 01:29 | X | X | X | X | | | | | | | | | | | | | | | | |
| CCB 680-354233/134 | 1 | | 01:33 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:37 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:46 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:50 | | | | | | | | | | | | | | | | | | | | |
| 680-106200-20 | 1 | T | 01:55 | X | X | X | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 01:59 | | | | | | | | | | | | | | | | | | | | |
| 680-106200-23 | 1 | T | 02:03 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:08 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:12 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:16 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-354233/145 | 1 | | 02:20 | X | X | X | X | | | | | | | | | | | | | | | | |
| CCB 680-354233/146 | 1 | | 02:25 | X | X | X | X | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:33 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 02:42 | | | | | | | | | | | | | | | | | | | | |
| CRI 680-354233/151 | 1 | | 02:46 | X | X | X | X | | | | | | | | | | | | | | | | |
| CCV 680-354233/152 | | | 02:51 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-354233/153 | | | 02:55 | | | | | | | | | | | | | | | | | | | | |

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Instrument ID: ICPE Method: 6010C

Start Date: 10/20/2014 15:00 End Date: 10/20/2014 20:03

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Pb | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:00 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:05 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:09 | | | | | | | | | | | | | | | | | | | | |
| ICV 680-354509/4 | 1 | | 15:13 | X | | | | | | | | | | | | | | | | | | | |
| ICBIS 680-354509/5 | 1 | | 15:17 | X | | | | | | | | | | | | | | | | | | | |
| CRI 680-354509/6 | 1 | | 15:22 | X | | | | | | | | | | | | | | | | | | | |
| ICSA 680-354509/7 | 1 | | 15:30 | X | | | | | | | | | | | | | | | | | | | |
| ICSAB 680-354509/8 | 1 | | 15:34 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:43 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 15:47 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-354509/12 | 1 | | 15:51 | X | | | | | | | | | | | | | | | | | | | |
| CCB 680-354509/13 | 1 | | 15:55 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:00 | | | | | | | | | | | | | | | | | | | | |
| 680-106200-B-1-A SD | 50 | T | 16:04 | X | | | | | | | | | | | | | | | | | | | |
| 680-106200-B-1-A PDS | 10 | T | 16:08 | X | | | | | | | | | | | | | | | | | | | |
| 680-106200-A-1-A MS | 10 | T | 16:12 | X | | | | | | | | | | | | | | | | | | | |
| 680-106200-A-1-B MSD | 10 | T | 16:17 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:21 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:25 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:30 | | | | | | | | | | | | | | | | | | | | |
| 680-106200-20 | 10 | T | 16:34 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:38 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-354509/24 | 1 | | 16:42 | X | | | | | | | | | | | | | | | | | | | |
| CCB 680-354509/25 | 1 | | 16:47 | X | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 16:56 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:00 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:04 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:08 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:13 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:17 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:21 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:25 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:30 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:34 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-354509/36 | | | 17:38 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-354509/37 | | | 17:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:47 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 17:59 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:04 | | | | | | | | | | | | | | | | | | | | |

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Instrument ID: ICPE Method: 6010C

Start Date: 10/20/2014 15:00 End Date: 10/20/2014 20:03

| Lab Sample ID | D/F | Type | Time | Analytes | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Pb | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:08 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:12 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:17 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:21 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:25 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-354509/48 | | | 18:29 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-354509/49 | | | 18:34 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:46 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:51 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:55 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 18:59 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:03 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:08 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:12 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:16 | | | | | | | | | | | | | | | | | | | | |
| CCV 680-354509/60 | | | 19:21 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-354509/61 | | | 19:25 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:29 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:33 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:38 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:42 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:46 | | | | | | | | | | | | | | | | | | | | |
| ZZZZZZ | | | 19:50 | | | | | | | | | | | | | | | | | | | | |
| CRI 680-354509/68 | 1 | | 19:55 | X | | | | | | | | | | | | | | | | | | | |
| CCV 680-354509/69 | | | 19:59 | | | | | | | | | | | | | | | | | | | | |
| CCB 680-354509/70 | | | 20:03 | | | | | | | | | | | | | | | | | | | | |

Prep Types

T = Total/NA

E10152014.wvq. All Data Report 10/16/2014, 1:56:04 PM

**Blank (Blk)** **10/15/2014, 9:46:19 AM** **Rack S, Tube 1**

| Label | Replicates | Concentration | |
|---|---|---|---|
| Ag 328.068 | 0.2093 | -0.1737 | -0.0356 |
| Al 308.215 | -0.7545 | -0.0194 | 0.7739 |
| As 188.980 | -4.4012 | 5.7492 | -1.3480 |
| B 249.678 | 0.3484 | -0.3193 | -0.0291 |
| Ba 389.178 | 0.4368 | -0.4360 | -0.0008 |
| Be 313.042 | -0.0008 | 0.0005 | 0.0003 |
| Ca 370.602 | 1.662 | -2.364 | 0.7022 |
| Cd 226.502 | -0.1706 | 0.0720 | 0.0986 |
| Co 228.615 | -0.5273 | 0.2869 | 0.2404 |
| Cr 267.716 | 0.0684 | -0.1326 | 0.0643 |
| Cu 324.754 | 0.0923 | 0.1190 | -0.2113 |
| Fe 271.441 | 1.4558 | -0.5103 | -0.9455 |
| K 766.491 | -0.4177 | 0.4037 | 0.0140 |
| Mg 279.078 | -1.1570 | 1.0711 | 0.0859 |
| Mn 257.610 | 0.0018 | 0.0072 | -0.0090 |
| Mo 202.032 | -0.1963 | -0.0083 | 0.2046 |
| Na 330.237 | 26.4752 | -146.306 | 119.831 |
| Ni 231.604 | 0.5693 | 0.3481 | -0.9174 |
| Pb 220.353 | -1.3069 | 0.9324 | 0.3746 |
| Sb 206.834 | -2.1548 | 2.4398 | -0.2851 |
| Se 196.026 | 1.3134 | 2.5771 | -3.8905 |
| Sn 189.925 | 0.3349 | 0.7972 | -1.1321 |
| Sr 216.596 | 0.0114 | -0.1567 | 0.1453 |
| Ti 334.941 | 0.0023 | 0.0003 | -0.0026 |
| Tl 190.794 | -2.9144 | 3.2356 | -0.3212 |
| V 292.401 | -0.2296 | 0.1023 | 0.1273 |
| Zn 206.200 | 0.0882 | 1.1971 | -1.2853 |

| Label | Sol'n Conc. | Units | SD(Int) | %RSD(Int) | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0000 | ppb | 15.001 | 143.4 | -10.4600 |
| Al 308.215 | 0.0000 | ppb | 5.058 | 1.3 | 394.370 |
| As 188.980 | 0.0000 | ppb | 2.794 | 115.8 | -2.4120 |
| B 249.678 | 0.0000 | ppb | 5.062 | 14.3 | 35.4656 |
| Ba 389.178 | 0.0000 | ppb | 8.850 | 17.4 | -50.7832 |
| Be 313.042 | 0.0000 | ppb | 1.207 | 0.4 | -317.064 |
| Ca 370.602 | 0.0000 | ppb | 4.860 | 43.6 | 11.13 |
| Cd 226.502 | 0.0000 | ppb | 5.550 | 42.0 | 13.2034 |
| Co 228.615 | 0.0000 | ppb | 4.763 | 151.2 | 3.1493 |
| Cr 267.716 | 0.0000 | ppb | 5.700 | 18.3 | 31.1313 |
| Cu 324.754 | 0.0000 | ppb | 12.866 | 5.1 | 249.897 |
| Fe 271.441 | 0.0000 | ppb | 1.802 | 26.4 | 6.8218 |
| K 766.491 | 0.0000 | ppb | 17.576 | 5.4 | 325.082 |
| Mg 279.078 | 0.0000 | ppb | 2.713 | 14.3 | 18.9317 |
| Mn 257.610 | 0.0000 | ppb | 1.709 | 4.2 | 40.6956 |
| Mo 202.032 | 0.0000 | ppb | 1.241 | 19.8 | 6.2756 |
| Na 330.237 | 0.0000 | ppb | 6.455 | 29.3 | 22.0551 |
| Ni 231.604 | 0.0000 | ppb | 2.222 | 46.5 | -4.7767 |
| Pb 220.353 | 0.0000 | ppb | 1.662 | 381.6 | 0.4356 |
| Sb 206.834 | 0.0000 | ppb | 3.045 | 271.2 | 1.1227 |
| Se 196.026 | 0.0000 | ppb | 1.320 | 48.2 | 2.7401 |
| Sn 189.925 | 0.0000 | ppb | 0.662 | 12.3 | -5.3728 |
| Sr 216.596 | 0.0000 | ppb | 1.653 | 69.2 | 2.3883 |
| Ti 334.941 | 0.0000 | ppb | 0.677 | 1.1 | -61.8763 |

| Label | Sol'n Conc. | Units | SD(Int) | %RSD(Int) | Int. (c/s) |
|---|---|---|---|---|---|
| Tl 190.794 | 0.0000 | ppb | 3.018 | 50.6 | -5.9622 |
| V 292.401 | 0.0000 | ppb | 5.163 | 72.6 | -7.1102 |
| Zn 206.200 | 0.0000 | ppb | 1.122 | 93.0 | 1.2067 |

**HIGH STD (Std)** **10/15/2014, 9:50:34 AM** **Rack S, Tube 2**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 997.508 | 1001.78 | 1000.71 |
| Al 308.215 | 10011.4 | 9978.78 | 10009.8 |
| As 188.980 | 1002.13 | 993.520 | 1004.35 |
| B 249.678 | 995.964 | 999.224 | 1004.81 |
| Ba 389.178 | 10000.7 | 9980.26 | 10019.1 |
| Be 313.042 | 999.381 | 997.728 | 1002.89 |
| Ca 370.602 | 10024 | 9984 | 9992 |
| Cd 226.502 | 999.966 | 997.472 | 1002.56 |
| Co 228.615 | 1003.49 | 994.837 | 1001.67 |
| Cr 267.716 | 10017.8 | 9975.98 | 10006.2 |
| Cu 324.754 | 9941.47 | 10064.1 | 9994.42 |
| Fe 271.441 | 10000.6 | 9978.01 | 10021.3 |
| K 766.491 | 19988.5 | 19999.7 | 20011.8 |
| Mg 279.078 | 10019.1 | 9970.36 | 10010.6 |
| Mn 257.610 | 10023.4 | 9982.14 | 9994.48 |
| Mo 202.032 | 999.712 | 997.032 | 1003.25 |
| Na 330.237 | 15047.7 | 15147.6 | 14804.7 |
| Ni 231.604 | 5007.85 | 4981.45 | 5010.70 |
| Pb 220.353 | 998.057 | 1002.79 | 999.157 |
| Sb 206.834 | 2002.78 | 1989.61 | 2007.61 |
| Se 196.026 | 9997.58 | 9965.00 | 10037.4 |
| Sn 189.925 | 10005.9 | 10013.6 | 9980.47 |
| Sr 216.596 | 5004.85 | 4978.57 | 5016.57 |
| Ti 334.941 | 1000.76 | 998.738 | 1000.51 |
| Tl 190.794 | 10027.8 | 9971.75 | 10000.5 |
| V 292.401 | 10013.3 | 9976.96 | 10009.7 |
| Zn 206.200 | 5015.10 | 4978.13 | 5006.77 |

| Label | Sol'n Conc. | Units | SD(Int) | %RSD(Int) | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 1000.00 | ppb | 171.938 | 0.2 | 77329.6 |
| Al 308.215 | 10000.0 | ppb | 121.704 | 0.2 | 66567.6 |
| As 188.980 | 1000.00 | ppb | 3.069 | 0.6 | 534.071 |
| B 249.678 | 1000.00 | ppb | 67.667 | 0.4 | 15156.4 |
| Ba 389.178 | 10000.0 | ppb | 393.678 | 0.2 | 202763 |
| Be 313.042 | 1000.00 | ppb | 4292.649 | 0.3 | 1627666 |
| Ca 370.602 | 10000 | ppb | 49.078 | 0.2 | 23128 |
| Cd 226.502 | 1000.00 | ppb | 95.241 | 0.3 | 37437.0 |
| Co 228.615 | 1000.00 | ppb | 47.540 | 0.5 | 10419.8 |
| Cr 267.716 | 10000.0 | ppb | 1071.040 | 0.2 | 496253 |
| Cu 324.754 | 10000.0 | ppb | 4313.833 | 0.6 | 701614 |
| Fe 271.441 | 10000.0 | ppb | 30.521 | 0.2 | 14089.4 |
| K 766.491 | 20000.0 | ppb | 498.976 | 0.1 | 855889 |
| Mg 279.078 | 10000.0 | ppb | 63.206 | 0.3 | 24314.0 |
| Mn 257.610 | 10000.0 | ppb | 4377.148 | 0.2 | 2067958 |
| Mo 202.032 | 1000.00 | ppb | 19.316 | 0.3 | 6194.62 |
| Na 330.237 | 15000.0 | ppb | 8.431 | 1.1 | 739.152 |
| Ni 231.604 | 5000.00 | ppb | 44.676 | 0.3 | 13846.0 |

| Label | Sol'n Conc. | Units | SD(Int) | %RSD(Int) | Int. (c/s) |
|---|---|---|---|---|---|
| Pb 220.353 | 1000.00 | ppb | 3.528 | 0.2 | 1426.38 |
| Sb 206.834 | 2000.00 | ppb | 12.274 | 0.5 | 2636.91 |
| Se 196.026 | 10000.0 | ppb | 13.964 | 0.4 | 3852.88 |
| Sn 189.925 | 10000.0 | ppb | 11.407 | 0.2 | 6569.48 |
| Sr 216.596 | 5000.00 | ppb | 212.604 | 0.4 | 54632.4 |
| Ti 334.941 | 1000.00 | ppb | 305.116 | 0.1 | 277420 |
| Tl 190.794 | 10000.0 | ppb | 27.389 | 0.3 | 9769.54 |
| V 292.401 | 10000.0 | ppb | 519.047 | 0.2 | 259170 |
| Zn 206.200 | 5000.00 | ppb | 17.497 | 0.4 | 4512.06 |

**Ag 328.068 Calibration (ppb)** **10/15/2014, 9:50:34 AM** **Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -10.4600 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 77329.6 | 1000.00 | 1000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 77.3 x + -10.5

**Al 308.215 Calibration (ppb)** **10/15/2014, 9:50:34 AM** **Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 394.370 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 66567.6 | 10000.0 | 10000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 6.6 x + 394.4

**As 188.980 Calibration (ppb)** **10/15/2014, 9:50:34 AM** **Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -2.4120 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 534.071 | 1000.00 | 1000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 0.5 x + -2.4

**B 249.678 Calibration (ppb)** **10/15/2014, 9:50:34 AM** **Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 35.4656 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 15156.4 | 1000.00 | 1000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 15.1 x + 35.5

**Ba 389.178 Calibration (ppb)** **10/15/2014, 9:50:34 AM** **Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -50.7832 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 202763 | 10000.0 | 10000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 20.3 x + -50.8

**Be 313.042 Calibration (ppb) 10/15/2014, 9:50:34 AM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -317.064 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 1627666 | 1000.00 | 1000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 1628.0 x + -317.1

**Ca 370.602 Calibration (ppb) 10/15/2014, 9:50:34 AM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 11.13 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 23128 | 10000 | 10000 | 0.0010 | 0.0 |

Curve Type: Linear Equation: y = 2.3 x + 11.1

**Cd 226.502 Calibration (ppb) 10/15/2014, 9:50:34 AM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 13.2034 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 37437.0 | 1000.00 | 1000.000 | -0.0001 | 0.0 |

Curve Type: Linear Equation: y = 37.4 x + 13.2

**Co 228.615 Calibration (ppb) 10/15/2014, 9:50:34 AM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 3.1493 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 10419.8 | 1000.00 | 1000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 10.4 x + 3.1

**Cr 267.716 Calibration (ppb) 10/15/2014, 9:50:34 AM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 31.1313 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 496253 | 10000.0 | 10000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 49.6 x + 31.1

**Cu 324.754 Calibration (ppb) 10/15/2014, 9:50:34 AM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 249.897 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 701614 | 10000.0 | 10000.0 | 0.0010 | 0.0 |

Curve Type: Linear Equation: y = 70.1 x + 249.9

**Fe 271.441 Calibration (ppb) 10/15/2014, 9:50:34 AM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 6.8218 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 14089.4 | 10000.0 | 10000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 1.4 x + 6.8

**K 766.491 Calibration (ppb) 10/15/2014, 9:50:34 AM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 325.082 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 855889 | 20000.0 | 20000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 42.8 x + 325.1

**Mg 279.078 Calibration (ppb) 10/15/2014, 9:50:34 AM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 18.9317 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 24314.0 | 10000.0 | 10000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 2.4 x + 18.9

**Mn 257.610 Calibration (ppb) 10/15/2014, 9:50:34 AM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 40.6956 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 2067958 | 10000.0 | 10000.0 | 0.0010 | 0.0 |

Curve Type: Linear Equation: y = 206.8 x + 40.7

**Mo 202.032 Calibration (ppb) 10/15/2014, 9:50:34 AM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 6.2756 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 6194.62 | 1000.00 | 1000.000 | -0.0002 | 0.0 |

Curve Type: Linear Equation: y = 6.2 x + 6.3

**Na 330.237 Calibration (ppb) 10/15/2014, 9:50:34 AM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 22.0551 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 739.152 | 15000.0 | 15000.0 | -0.0010 | 0.0 |

Curve Type: Linear Equation: y = 0.0 x + 22.1

**Ni 231.604 Calibration (ppb) 10/15/2014, 9:50:34 AM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -4.7767 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 13846.0 | 5000.00 | 5000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 2.8 x + -4.8

**Pb 220.353 Calibration (ppb) 10/15/2014, 9:50:34 AM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 0.4356 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 1426.38 | 1000.00 | 1000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 1.4 x + 0.4

**Sb 206.834 Calibration (ppb) 10/15/2014, 9:50:34 AM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 1.1227 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 2636.91 | 2000.00 | 2000.00 | 0.0001 | 0.0 |

Curve Type: Linear Equation: y = 1.3 x + 1.1

**Se 196.026 Calibration (ppb) 10/15/2014, 9:50:34 AM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 2.7401 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 3852.88 | 10000.0 | 10000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 0.4 x + 2.7

**Sn 189.925 Calibration (ppb) 10/15/2014, 9:50:34 AM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -5.3728 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 6569.48 | 10000.0 | 10000.00 | -0.0010 | 0.0 |

Curve Type: Linear Equation: y = 0.7 x + -5.4

**Sr 216.596 Calibration (ppb) 10/15/2014, 9:50:34 AM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 2.3883 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 54632.4 | 5000.00 | 5000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 10.9 x + 2.4

**Ti 334.941 Calibration (ppb) 10/15/2014, 9:50:34 AM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -61.8763 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 277420 | 1000.00 | 1000.000 | -0.0002 | 0.0 |

Curve Type: Linear Equation: y = 277.5 x + -61.9

**Tl 190.794 Calibration (ppb) 10/15/2014, 9:50:34 AM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -5.9622 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 9769.54 | 10000.0 | 10000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 1.0 x + -6.0

**V 292.401 Calibration (ppb) 10/15/2014, 9:50:34 AM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -7.1102 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 259170 | 10000.0 | 10000.00 | -0.0010 | 0.0 |

Curve Type: Linear Equation: y = 25.9 x + -7.1

**Zn 206.200 Calibration (ppb) 10/15/2014, 9:50:34 AM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 1.2067 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 4512.06 | 5000.00 | 5000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 0.9 x + 1.2

**Lab Control Sample (LCS) 10/15/2014, 9:54:49 AM Rack S, Tube 2**

**Weight: 1 Volume: 1 Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 981.940 | 989.687 | 981.873 |
| Al 308.215 | 9828.93 | 9865.06 | 9829.25 |
| As 188.980 | 983.738 | 981.646 | 998.082 |
| B 249.678 | 994.297 | 1002.49 | 999.335 |
| Ba 389.178 | 9794.89 | 9842.92 | 9818.77 |
| Be 313.042 | 975.380 | 981.934 | 978.783 |
| Ca 370.602 | 9814 | 9888 | 9825 |
| Cd 226.502 | 982.229 | 986.953 | 981.766 |
| Co 228.615 | 982.807 | 987.782 | 983.736 |
| Cr 267.716 | 9798.82 | 9838.70 | 9785.84 |
| Cu 324.754 | 9816.21 | 9749.88 | 9834.25 |
| Fe 271.441 | 9785.70 | 9833.65 | 9776.30 |
| K 766.491 | 19768.3 | 19867.6 | 19864.4 |
| Mg 279.078 | 9826.71 | 9872.23 | 9828.74 |
| Mn 257.610 | 9814.63 | 9897.66 | 9856.43 |
| Mo 202.032 | 985.678 | 989.051 | 989.253 |
| Na 330.237 | 15417.7 | 15502.1 | 15620.8 |
| Ni 231.604 | 4911.57 | 4928.54 | 4928.96 |
| Pb 220.353 | 982.103 | 987.716 | 983.017 |
| Sb 206.834 | 1953.00 | 1974.14 | 1954.54 |
| Se 196.026 | 9838.53 | 9882.00 | 9860.84 |
| Sn 189.925 | 9827.69 | 9870.14 | 9773.29 |
| Sr 216.596 | 4917.50 | 4940.57 | 4911.81 |
| Ti 334.941 | 979.511 | 984.647 | 981.236 |
| Tl 190.794 | 9860.32 | 9920.98 | 9868.54 |
| V 292.401 | 9790.36 | 9834.53 | 9802.64 |
| Zn 206.200 | 4901.54 | 4944.68 | 4899.64 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 984.500 | ppb | 4.4921 | 0.5 | 76044.7 | 98.44997 |
| Al 308.215 | 9841.08 | ppb | 20.7708 | 0.2 | 66542.6 | 98.41079 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| As 188.980 | 987.822 | ppb | 8.9467 | 0.9 | 527.342 | 98.78221 |
| B 249.678 | 998.707 | ppb | 4.1321 | 0.4 | 15142.7 | 19.97414* |
| Ba 389.178 | 9818.86 | ppb | 24.0123 | 0.2 | 199130 | 98.18857 |
| Be 313.042 | 978.699 | ppb | 3.2780 | 0.3 | 1593329 | 97.86987 |
| Ca 370.602 | 9842 | ppb | 39.82 | 0.4 | 23290 | 98.42443 |
| Cd 226.502 | 983.649 | ppb | 2.8706 | 0.3 | 36860.8 | 98.36491 |
| Co 228.615 | 984.775 | ppb | 2.6456 | 0.3 | 10270.3 | 98.47750 |
| Cr 267.716 | 9807.79 | ppb | 27.5495 | 0.3 | 486659 | 98.07787 |
| Cu 324.754 | 9800.11 | ppb | 44.4278 | 0.5 | 687500 | 98.00112 |
| Fe 271.441 | 9798.55 | ppb | 30.7560 | 0.3 | 14001.6 | 97.98550 |
| K 766.491 | 19833.4 | ppb | 56.4382 | 0.3 | 848762 | 99.16707 |
| Mg 279.078 | 9842.56 | ppb | 25.7161 | 0.3 | 23746.0 | 98.42564 |
| Mn 257.610 | 9856.24 | ppb | 41.5145 | 0.4 | 2038331 | 98.56241 |
| Mo 202.032 | 987.994 | ppb | 2.0080 | 0.2 | 6110.18 | 98.79941 |
| Na 330.237 | 15513.5 | ppb | 102.041 | 0.7 | 638.300 | 103.42347 |
| Ni 231.604 | 4923.02 | ppb | 9.9200 | 0.2 | 13631.4 | 98.46048 |
| Pb 220.353 | 984.279 | ppb | 3.0116 | 0.3 | 1410.38 | 98.42786 |
| Sb 206.834 | 1960.56 | ppb | 11.7829 | 0.6 | 2676.33 | 98.02797 |
| Se 196.026 | 9860.46 | ppb | 21.7389 | 0.2 | 3801.12 | 98.60455 |
| Sn 189.925 | 9823.71 | ppb | 48.5467 | 0.5 | 6453.57 | 98.23708 |
| Sr 216.596 | 4923.29 | ppb | 15.2289 | 0.3 | 53675.3 | 98.46587 |
| Ti 334.941 | 981.798 | ppb | 2.6137 | 0.3 | 272386 | 98.17981 |
| Tl 190.794 | 9883.28 | ppb | 32.9064 | 0.3 | 9672.82 | 98.83280 |
| V 292.401 | 9809.18 | ppb | 22.8013 | 0.2 | 253669 | 98.09177 |
| Zn 206.200 | 4915.29 | ppb | 25.4743 | 0.5 | 4409.93 | 98.30576 |

**Initial Calib Verif (ICV)** **10/15/2014, 9:59:04 AM** **Rack S, Tube 3**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 971.007 | 979.757 | 972.398 |
| Al 308.215 | 954.689 | 962.107 | 951.702 |
| As 188.980 | 1007.50 | 1012.49 | 1010.98 |
| B 249.678 | 973.136 | 982.762 | 974.742 |
| Ba 389.178 | 986.912 | 995.159 | 986.943 |
| Be 313.042 | 975.199 | 981.236 | 969.644 |
| Ca 370.602 | 971.3 | 975.2 | 972.1 |
| Cd 226.502 | 968.622 | 973.948 | 965.443 |
| Co 228.615 | 1000.50 | 1010.97 | 1003.68 |
| Cr 267.716 | 971.953 | 980.105 | 967.921 |
| Cu 324.754 | 997.837 | 1004.63 | 991.720 |
| Fe 271.441 | 960.487 | 963.316 | 953.306 |
| K 766.491 | 9838.45 | 9911.93 | 9832.83 |
| Mg 279.078 | 954.423 | 965.915 | 959.657 |
| Mn 257.610 | 1008.16 | 1014.22 | 1003.11 |
| Mo 202.032 | 993.047 | 997.143 | 990.052 |
| Na 330.237 | 9461.58 | 9603.89 | 9401.62 |
| Ni 231.604 | 980.405 | 988.857 | 969.761 |
| Pb 220.353 | 978.337 | 982.297 | 970.746 |
| Sb 206.834 | 969.086 | 969.703 | 964.551 |
| Se 196.026 | 943.350 | 946.080 | 943.071 |
| Sn 189.925 | 4848.84 | 4807.55 | 4779.60 |
| Sr 216.596 | 4881.88 | 4915.05 | 4869.71 |
| Ti 334.941 | 945.494 | 952.790 | 942.551 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 957.780 | 966.377 | 953.987 |
| V 292.401 | 1003.19 | 1008.99 | 999.488 |
| Zn 206.200 | 977.190 | 980.098 | 976.490 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 974.387 | ppb | 4.7022 | 0.5 | 75203.8 | 97.43874 |
| Al 308.215 | 956.166 | ppb | 5.3576 | 0.6 | 6871.15 | 95.61659 |
| As 188.980 | 1010.32 | ppb | 2.5582 | 0.3 | 539.382 | 101.03226 |
| B 249.678 | 976.880 | ppb | 5.1572 | 0.5 | 14817.4 | 97.68800 |
| Ba 389.178 | 989.671 | ppb | 4.7525 | 0.5 | 20029.2 | 98.96715 |
| Be 313.042 | 975.360 | ppb | 5.7977 | 0.6 | 1587466 | 97.53596 |
| Ca 370.602 | 972.8 | ppb | 2.069 | 0.2 | 2617 | 97.28498 |
| Cd 226.502 | 969.337 | ppb | 4.2978 | 0.4 | 36293.2 | 96.93374 |
| Co 228.615 | 1005.05 | ppb | 5.3708 | 0.5 | 10464.8 | 100.50484 |
| Cr 267.716 | 973.326 | ppb | 6.2073 | 0.6 | 48317.2 | 97.33263 |
| Cu 324.754 | 998.061 | ppb | 6.4558 | 0.6 | 70275.1 | 99.80611 |
| Fe 271.441 | 959.036 | ppb | 5.1604 | 0.5 | 1476.08 | 95.90362 |
| K 766.491 | 9861.07 | ppb | 44.1337 | 0.4 | 422164 | 98.61071 |
| Mg 279.078 | 959.998 | ppb | 5.7538 | 0.6 | 2332.30 | 95.99982 |
| Mn 257.610 | 1008.50 | ppb | 5.5599 | 0.6 | 208600 | 100.84986 |
| Mo 202.032 | 993.414 | ppb | 3.5601 | 0.4 | 6152.82 | 99.34139 |
| Na 330.237 | 9489.03 | ppb | 103.892 | 1.1 | 449.355 | 94.89031 |
| Ni 231.604 | 979.674 | ppb | 9.5689 | 1.0 | 2706.94 | 97.96741 |
| Pb 220.353 | 977.127 | ppb | 5.8700 | 0.6 | 1392.64 | 97.71267 |
| Sb 206.834 | 967.780 | ppb | 2.8135 | 0.3 | 1273.02 | 96.77798 |
| Se 196.026 | 944.167 | ppb | 1.6621 | 0.2 | 366.459 | 94.41670Q |
| Sn 189.925 | 4812.00 | ppb | 34.8338 | 0.7 | 3158.45 | 96.23995 |
| Sr 216.596 | 4888.88 | ppb | 23.4646 | 0.5 | 53384.6 | 97.77757 |
| Ti 334.941 | 946.945 | ppb | 5.2717 | 0.6 | 262699 | 94.69452 |
| Tl 190.794 | 959.382 | ppb | 6.3482 | 0.7 | 933.402 | 95.93816 |
| V 292.401 | 1003.89 | ppb | 4.7872 | 0.5 | 25826.3 | 100.38880 |
| Zn 206.200 | 977.926 | ppb | 1.9135 | 0.2 | 880.909 | 97.79257 |

**Initial Calib Blank (ICB)** **10/15/2014, 10:03:19 AM** **Rack S, Tube 1**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0821 | -0.0598u | 0.2330 |
| Al 308.215 | 4.4993 | -6.4654u | 6.2884 |
| As 188.980 | 3.7090 | 2.8198 | 1.9440 |
| B 249.678 | 22.2784 | 17.2137 | 18.9850 |
| Ba 389.178 | 1.0719 | 0.6050 | -0.1595u |
| Be 313.042 | 0.0799 | 0.0872 | 0.0672 |
| Ca 370.602 | 5.447 | 0.8408 | 7.000 |
| Cd 226.502 | 0.2336 | 0.0292 | 0.1252 |
| Co 228.615 | -0.3138u | 0.2736 | -0.1778u |
| Cr 267.716 | 0.3176 | 0.0539 | 0.2122 |
| Cu 324.754 | 0.0661 | -0.4332u | 0.1674 |
| Fe 271.441 | -2.6409u | -3.5598u | -0.7174u |
| K 766.491 | 0.1814 | -0.5650u | 0.8336 |
| Mg 279.078 | -2.3203u | -3.3046u | -1.8608u |
| Mn 257.610 | 0.1837 | 0.1348 | 0.2014 |
| Mo 202.032 | 3.0458 | 2.3516 | 2.3064 |
| Na 330.237 | -17.2306u | -102.907u | -123.006u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 0.1634 | 0.8346 | -0.3267u |
| Pb 220.353 | -0.8155u | 0.7634 | 1.3358 |
| Sb 206.834 | 4.1923 | 1.5925 | 2.1070 |
| Se 196.026 | -1.9106u | 4.8889 | 1.1436 |
| Sn 189.925 | 2.1754 | 3.7730 | 5.4223 |
| Sr 216.596 | 0.3283 | 0.0576 | 0.1776 |
| Ti 334.941 | 0.2183 | 0.2098 | 0.1920 |
| Tl 190.794 | 3.9474 | 0.6938 | 1.5411 |
| V 292.401 | 0.2791 | 0.2046 | 0.4635 |
| Zn 206.200 | -1.4959u | -0.6458u | -0.3568u |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.0851 | ppb | 0.1464 | 172.0 | -3.8828 | 0.08510 |
| Al 308.215 | 1.4408 | ppb | 6.9051 | 479.3 | 404.058 | 1.44075 |
| As 188.980 | 2.8243 | ppb | 0.8825 | 31.2 | -0.8974 | 2.82426 |
| B 249.678 | 19.4924 | ppb | 2.5702 | 13.2 | 330.260 | 19.49238 |
| Ba 389.178 | 0.5058 | ppb | 0.6217 | 122.9 | -40.5176 | 0.50577 |
| Be 313.042 | 0.0781 | ppb | 0.0101 | 13.0 | -190.222 | 0.07810 |
| Ca 370.602 | 4.429 | ppb | 3.203 | 72.3 | 21.48 | 4.42918 |
| Cd 226.502 | 0.1293 | ppb | 0.1022 | 79.0 | 18.0304 | 0.12935 |
| Co 228.615 | -0.0727 | ppb | 0.3075 | 423.1 | 2.3326 | -0.07267 |
| Cr 267.716 | 0.1946 | ppb | 0.1328 | 68.2 | 40.7800 | 0.19457 |
| Cu 324.754 | -0.0666 | ppb | 0.3216 | 483.1 | 245.318 | -0.06656 |
| Fe 271.441 | -2.3061 | ppb | 1.4505 | 62.9 | 3.5805 | -2.30605 |
| K 766.491 | 0.1500 | ppb | 0.6999 | 466.6 | 331.499 | 0.15000 |
| Mg 279.078 | -2.4952 | ppb | 0.7376 | 29.6 | 12.8663 | -2.49523 |
| Mn 257.610 | 0.1733 | ppb | 0.0345 | 19.9 | 76.5128 | 0.17329 |
| Mo 202.032 | 2.5679 | ppb | 0.4145 | 16.1 | 22.1668 | 2.56793 |
| Na 330.237 | -81.0481 | ppb | 56.1738 | 69.3 | 18.2093 | -81.04814 |
| Ni 231.604 | 0.2237 | ppb | 0.5830 | 260.6 | -4.1572 | 0.22375 |
| Pb 220.353 | 0.4279 | ppb | 1.1142 | 260.4 | 1.0431 | 0.42790 |
| Sb 206.834 | 2.6306 | ppb | 1.3767 | 52.3 | 4.5524 | 2.63059 |
| Se 196.026 | 1.3740 | ppb | 3.4056 | 247.9 | 3.2690 | 1.37395 |
| Sn 189.925 | 3.7902 | ppb | 1.6236 | 42.8 | -2.8808 | 3.79022 |
| Sr 216.596 | 0.1878 | ppb | 0.1356 | 72.2 | 4.3994 | 0.18783 |
| Ti 334.941 | 0.2067 | ppb | 0.0134 | 6.5 | -4.5211 | 0.20668 |
| Tl 190.794 | 2.0608 | ppb | 1.6879 | 81.9 | -3.9543 | 2.06075 |
| V 292.401 | 0.3157 | ppb | 0.1333 | 42.2 | 0.6782 | 0.31572 |
| Zn 206.200 | -0.8328 | ppb | 0.5922 | 71.1 | 0.4550 | -0.83282 |

**CRI (CRI)** **10/15/2014, 10:07:35 AM** **Rack S, Tube 4**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 10.2994 | 10.4643 | 10.3955 |
| Al 308.215 | 207.165 | 204.641 | 203.278 |
| As 188.980 | 26.4119 | 28.2195 | 27.6992 |
| B 249.678 | 109.199 | 108.658 | 107.086 |
| Ba 389.178 | 9.7634 | 10.2946 | 9.9313 |
| Be 313.042 | 4.1841 | 4.1756 | 4.1450 |
| Ca 370.602 | 505.2 | 505.5 | 500.2 |
| Cd 226.502 | 5.1248 | 5.0383 | 5.1717 |
| Co 228.615 | 10.3846 | 10.2878 | 10.2873 |
| Cr 267.716 | 10.3672 | 10.5077 | 10.0974 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 21.1363 | 21.4786 | 21.4862 |
| Fe 271.441 | 47.2106 | 51.1418 | 50.3125 |
| K 766.491 | 1077.19 | 1076.85 | 1069.82 |
| Mg 279.078 | 506.783 | 506.826 | 501.358 |
| Mn 257.610 | 10.9197 | 10.9088 | 10.8070 |
| Mo 202.032 | 10.9771 | 11.0011 | 11.3705 |
| Na 330.237 | 884.219 | 822.897 | 817.606 |
| Ni 231.604 | 41.7501 | 42.1494 | 40.9369 |
| Pb 220.353 | 8.5080 | 10.9852 | 10.0571 |
| Sb 206.834 | 21.5928 | 24.8127 | 21.0992 |
| Se 196.026 | 31.3928 | 26.7007 | 28.7925 |
| Sn 189.925 | 51.1897 | 51.2503 | 54.9797 |
| Sr 216.596 | 10.4412 | 10.5678 | 10.1259 |
| Ti 334.941 | 10.3109 | 10.3419 | 10.1726 |
| Tl 190.794 | 27.9020 | 24.9326 | 26.1614 |
| V 292.401 | 10.1485 | 10.2654 | 10.3047 |
| Zn 206.200 | 21.2343 | 21.8786 | 18.2707 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 10.3864 | ppb | 0.0829 | 0.8 | 792.564 | 103.86391 |
| Al 308.215 | 205.028 | ppb | 1.9725 | 1.0 | 1752.75 | 102.51400 |
| As 188.980 | 27.4435 | ppb | 0.9305 | 3.4 | 12.3099 | 137.21765R |
| B 249.678 | 108.314 | ppb | 1.0977 | 1.0 | 1673.48 | 108.31433 |
| Ba 389.178 | 9.9964 | ppb | 0.2715 | 2.7 | 152.694 | 99.96439 |
| Be 313.042 | 4.1683 | ppb | 0.0205 | 0.5 | 6467.81 | 104.20629 |
| Ca 370.602 | 503.6 | ppb | 2.961 | 0.6 | 1179 | 100.72871 |
| Cd 226.502 | 5.1116 | ppb | 0.0677 | 1.3 | 204.690 | 102.23196 |
| Co 228.615 | 10.3199 | ppb | 0.0560 | 0.5 | 110.562 | 103.19910 |
| Cr 267.716 | 10.3241 | ppb | 0.2085 | 2.0 | 543.394 | 103.24097 |
| Cu 324.754 | 21.3670 | ppb | 0.1998 | 0.9 | 1748.81 | 106.83495 |
| Fe 271.441 | 49.5550 | ppb | 2.0722 | 4.2 | 77.8348 | 99.10995 |
| K 766.491 | 1074.62 | ppb | 4.1626 | 0.4 | 46295.5 | 107.46230 |
| Mg 279.078 | 504.989 | ppb | 3.1446 | 0.6 | 1245.54 | 100.99785 |
| Mn 257.610 | 10.8785 | ppb | 0.0622 | 0.6 | 2294.12 | 108.78493 |
| Mo 202.032 | 11.1163 | ppb | 0.2205 | 2.0 | 75.0544 | 111.16254 |
| Na 330.237 | 841.574 | ppb | 37.0261 | 4.4 | 61.7368 | 84.15739 |
| Ni 231.604 | 41.6121 | ppb | 0.6179 | 1.5 | 110.477 | 104.03034 |
| Pb 220.353 | 9.8501 | ppb | 1.2516 | 12.7 | 14.4639 | 98.50104 |
| Sb 206.834 | 22.5016 | ppb | 2.0166 | 9.0 | 30.7270 | 112.50790 |
| Se 196.026 | 28.9620 | ppb | 2.3506 | 8.1 | 13.8933 | 144.80997R |
| Sn 189.925 | 52.4732 | ppb | 2.1709 | 4.1 | 29.1278 | 104.94647 |
| Sr 216.596 | 10.3783 | ppb | 0.2276 | 2.2 | 114.862 | 103.78296 |
| Ti 334.941 | 10.2751 | ppb | 0.0902 | 0.9 | 2790.08 | 102.75132 |
| Tl 190.794 | 26.3320 | ppb | 1.4921 | 5.7 | 19.7870 | 105.32796 |
| V 292.401 | 10.2395 | ppb | 0.0813 | 0.8 | 256.251 | 102.39533 |
| Zn 206.200 | 20.4612 | ppb | 1.9242 | 9.4 | 19.6373 | 102.30590 |

**CRI (CRI)** **10/15/2014, 10:13:09 AM** **Rack S, Tube 4**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 10.2457 | 10.7184 | 10.4772 |
| Al 308.215 | 204.992 | 203.359 | 202.393 |
| As 188.980 | 23.1531 | 24.1118 | 19.9450 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 104.521 | 103.859 | 104.333 |
| Ba 389.178 | 11.3822 | 10.3619 | 9.6972 |
| Be 313.042 | 4.1232 | 4.1239 | 4.0998 |
| Ca 370.602 | 499.6 | 501.4 | 496.8 |
| Cd 226.502 | 5.0909 | 5.0080 | 4.9431 |
| Co 228.615 | 11.2290 | 10.1195 | 9.7291 |
| Cr 267.716 | 10.3155 | 10.2321 | 10.1957 |
| Cu 324.754 | 20.9964 | 21.2077 | 21.0203 |
| Fe 271.441 | 55.6058 | 52.7595 | 50.1866 |
| K 766.491 | 1065.82 | 1062.51 | 1061.94 |
| Mg 279.078 | 503.973 | 506.209 | 498.106 |
| Mn 257.610 | 10.8327 | 10.7793 | 10.7162 |
| Mo 202.032 | 9.8031 | 9.9728 | 10.5562 |
| Na 330.237 | 857.863 | 897.272 | 977.423 |
| Ni 231.604 | 40.9679 | 41.1188 | 41.2914 |
| Pb 220.353 | 11.5660 | 11.4095 | 10.5685 |
| Sb 206.834 | 19.6097 | 21.3063 | 20.3837 |
| Se 196.026 | 17.3057 | 19.8314 | 22.4748 |
| Sn 189.925 | 51.4623 | 51.8920 | 48.4815 |
| Sr 216.596 | 10.1052 | 9.9588 | 10.0795 |
| Ti 334.941 | 10.2045 | 10.1951 | 10.1724 |
| Tl 190.794 | 27.7917 | 23.0253 | 25.5392 |
| V 292.401 | 10.1130 | 10.2379 | 10.3028 |
| Zn 206.200 | 19.7927 | 20.5204 | 22.4940 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 10.4804 | ppb | 0.2364 | 2.3 | 799.846 | 104.80431 |
| Al 308.215 | 203.582 | ppb | 1.3135 | 0.6 | 1743.12 | 101.79076 |
| As 188.980 | 22.4033 | ppb | 2.1823 | 9.7 | 9.6061 | 112.01641 |
| B 249.678 | 104.237 | ppb | 0.3412 | 0.3 | 1611.80 | 104.23733 |
| Ba 389.178 | 10.4804 | ppb | 0.8487 | 8.1 | 162.500 | 104.80399 |
| Be 313.042 | 4.1157 | ppb | 0.0137 | 0.3 | 6382.33 | 102.89128 |
| Ca 370.602 | 499.3 | ppb | 2.297 | 0.5 | 1169 | 99.85085 |
| Cd 226.502 | 5.0140 | ppb | 0.0741 | 1.5 | 201.045 | 100.27972 |
| Co 228.615 | 10.3592 | ppb | 0.7782 | 7.5 | 111.000 | 103.59176 |
| Cr 267.716 | 10.2478 | ppb | 0.0614 | 0.6 | 539.609 | 102.47794 |
| Cu 324.754 | 21.0748 | ppb | 0.1157 | 0.5 | 1728.27 | 105.37393 |
| Fe 271.441 | 52.8506 | ppb | 2.7107 | 5.1 | 82.4946 | 105.70128 |
| K 766.491 | 1063.42 | ppb | 2.0945 | 0.2 | 45816.3 | 106.34204 |
| Mg 279.078 | 502.763 | ppb | 4.1847 | 0.8 | 1240.13 | 100.55254 |
| Mn 257.610 | 10.7761 | ppb | 0.0583 | 0.5 | 2272.92 | 107.76076 |
| Mo 202.032 | 10.1107 | ppb | 0.3951 | 3.9 | 68.8315 | 101.10692 |
| Na 330.237 | 910.853 | ppb | 60.9260 | 6.7 | 65.0506 | 91.08530 |
| Ni 231.604 | 41.1261 | ppb | 0.1619 | 0.4 | 109.130 | 102.81516 |
| Pb 220.353 | 11.1813 | ppb | 0.5364 | 4.8 | 16.3633 | 111.81300 |
| Sb 206.834 | 20.4332 | ppb | 0.8494 | 4.2 | 28.0180 | 102.16614 |
| Se 196.026 | 19.8706 | ppb | 2.5848 | 13.0 | 10.3930 | 99.35322 |
| Sn 189.925 | 50.6119 | ppb | 1.8575 | 3.7 | 27.9040 | 101.22385 |
| Sr 216.596 | 10.0478 | ppb | 0.0782 | 0.8 | 111.281 | 100.47833 |
| Ti 334.941 | 10.1907 | ppb | 0.0165 | 0.2 | 2766.63 | 101.90661 |
| Tl 190.794 | 25.4521 | ppb | 2.3844 | 9.4 | 18.9306 | 101.80825 |
| V 292.401 | 10.2179 | ppb | 0.0965 | 0.9 | 255.878 | 102.17920 |
| Zn 206.200 | 20.9357 | ppb | 1.3977 | 6.7 | 20.0656 | 104.67856 |

**Interf Check A (ICSA)** **10/15/2014, 10:17:26 AM** **Rack S, Tube 5**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.3602u | -0.0698u | 0.7737 |
| Al 308.215 | 538990 | 538691 | 538468 |
| As 188.980 | 12.4274 | -8.4974u | -1.1977 |
| B 249.678 | 8.9959u | 9.1152u | 8.2338u |
| Ba 389.178 | 7.0892 | 6.8929 | 7.0667 |
| Be 313.042 | -0.1312u | -0.1254u | -0.1329u |
| Ca 370.602 | 496714 | 499741 | 496689 |
| Cd 226.502 | 2.3163 | 2.4621 | 2.3256 |
| Co 228.615 | -2.2903u | -1.6990u | -0.6288 |
| Cr 267.716 | 0.6682 | 0.1978 | 0.2661 |
| Cu 324.754 | 2.8007 | 2.2810 | 2.1819 |
| Fe 271.441 | 186451 | 186902 | 186597 |
| K 766.491 | 11.0857 | 11.6183 | 11.5177 |
| Mg 279.078 | 508040 | 510489 | 511056 |
| Mn 257.610 | 2.9847 | 3.0827 | 2.9323 |
| Mo 202.032 | 1.5613 | 2.0443 | 0.9992u |
| Na 330.237 | -294.392u | -248.734u | -83.5579u |
| Ni 231.604 | 0.8890 | 1.9833 | -0.6669 |
| Pb 220.353 | -4.2644u | -7.7739u | -8.5258u |
| Sb 206.834 | -3.7691 | 6.6050 | -0.5796 |
| Se 196.026 | 14.7905 | 7.1810 | 4.8997 |
| Sn 189.925 | -5.1908u | -4.8408u | 0.5594 |
| Sr 216.596 | 7.5045 | 8.3278 | 8.1055 |
| Ti 334.941 | 1.0116 | 1.0251 | 0.9801 |
| Tl 190.794 | -16.0850u | -14.3297u | -12.4404u |
| V 292.401 | -0.9746 | -0.9760 | -0.1392 |
| Zn 206.200 | 9.8427 | 6.1045u | 5.9172u |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.3547 | ppb | 0.4217 | 118.9 | -19.1586 | 0.35470 |
| Al 308.215 | 538716 | ppb | 261.917 | 0.0 | 3565565 | - |
| As 188.980 | 0.9108 | ppb | 10.6205 | 1166.1 | 1.6458 | 0.91079 |
| B 249.678 | 8.7816 | ppb | 0.4782 | 5.4 | -223.283 | 8.78162 |
| Ba 389.178 | 7.0163 | ppb | 0.1074 | 1.5 | 830.583 | 7.01625 |
| Be 313.042 | -0.1299 | ppb | 0.0039 | 3.0 | -353.903 | -0.12985 |
| Ca 370.602 | 497715 | ppb | 1754 | 0.4 | 1148748 | - |
| Cd 226.502 | 2.3680 | ppb | 0.0816 | 3.4 | 775.019 | 2.36798 |
| Co 228.615 | -1.5393 | ppb | 0.8422 | 54.7 | -1.3241 | -1.53935 |
| Cr 267.716 | 0.3774 | ppb | 0.2541 | 67.3 | 137.136 | 0.37737 |
| Cu 324.754 | 2.4212 | ppb | 0.3324 | 13.7 | 496.954 | 2.42122 |
| Fe 271.441 | 186650 | ppb | 230.396 | 0.1 | 262858 | - |
| K 766.491 | 11.4072 | ppb | 0.2830 | 2.5 | 813.062 | 11.40721 |
| Mg 279.078 | 509862 | ppb | 1603.00 | 0.3 | 1238548 | - |
| Mn 257.610 | 2.9999 | ppb | 0.0763 | 2.5 | 4916.47 | 2.99988 |
| Mo 202.032 | 1.5349 | ppb | 0.5231 | 34.1 | 7.8138 | 1.53493 |
| Na 330.237 | -208.895 | ppb | 110.919 | 53.1 | -32.0361 | -208.89462 |
| Ni 231.604 | 0.7352 | ppb | 1.3318 | 181.2 | 11.7150 | 0.73515 |
| Pb 220.353 | -6.8547 | ppb | 2.2745 | 33.2 | -27.4066 | -6.85473 |
| Sb 206.834 | 0.7521 | ppb | 5.3137 | 706.5 | 7.7011 | 0.75213 |
| Se 196.026 | 8.9571 | ppb | 5.1791 | 57.8 | 7.6076 | 8.95707 |
| Sn 189.925 | -3.1574 | ppb | 3.2236 | 102.1 | -7.4491 | -3.15740 |
| Sr 216.596 | 7.9793 | ppb | 0.4259 | 5.3 | 459.162 | 7.97926 |

 

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ti 334.941 | 1.0056 | ppb | 0.0231 | 2.3 | 1119.69 | 1.00561 |
| Tl 190.794 | -14.2850 | ppb | 1.8227 | 12.8 | -42.3527 | -14.28504 |
| V 292.401 | -0.6966 | ppb | 0.4827 | 69.3 | 43.6944 | -0.69661 |
| Zn 206.200 | 7.2881 | ppb | 2.2143 | 30.4 | 0.6510 | 7.28815 |

**Interf Check AB (ICSAB)** **10/15/2014, 10:21:43 AM** **Rack S, Tube 6**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 224.352 | 227.011 | 228.419 |
| Al 308.215 | 550934 | 551788 | 551960 |
| As 188.980 | 102.631 | 117.824 | 110.557 |
| B 249.678 | 7.3311u | 6.1814u | 6.3730u |
| Ba 389.178 | 515.444 | 515.517 | 516.503 |
| Be 313.042 | 488.387 | 489.918 | 489.195 |
| Ca 370.602 | 512809 | 507759 | 507951 |
| Cd 226.502 | 941.831 | 943.361 | 940.705 |
| Co 228.615 | 479.000 | 480.586 | 480.113 |
| Cr 267.716 | 491.616 | 491.130 | 490.893 |
| Cu 324.754 | 590.457 | 588.443 | 591.897 |
| Fe 271.441 | 190934 | 191002 | 190867 |
| K 766.491 | 6.9926 | 7.2835 | 7.6430 |
| Mg 279.078 | 520110 | 520690 | 521486 |
| Mn 257.610 | 517.134 | 516.623 | 516.838 |
| Mo 202.032 | 988.479 | 990.771 | 991.741 |
| Na 330.237 | -82.3612u | -75.0679u | 75.5647u |
| Ni 231.604 | 925.089 | 931.949 | 922.345 |
| Pb 220.353 | 41.0347 | 41.8560 | 39.4826 |
| Sb 206.834 | 637.396 | 647.223 | 637.061 |
| Se 196.026 | 55.0600 | 48.0179 | 71.6646 |
| Sn 189.925 | 976.107 | 990.057 | 979.551 |
| Sr 216.596 | 9.4538 | 9.8062 | 8.8942 |
| Ti 334.941 | 0.3465 | 0.3333 | 0.3644 |
| Tl 190.794 | 80.5139 | 82.3676 | 86.4549 |
| V 292.401 | 492.498 | 491.925 | 492.607 |
| Zn 206.200 | 927.606 | 931.591 | 935.515 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 226.594 | ppb | 2.0654 | 0.9 | 17480.9 | 113.29694 |
| Al 308.215 | 551561 | ppb | 549.018 | 0.1 | 3650667 | 110.31211 |
| As 188.980 | 110.337 | ppb | 7.5988 | 6.9 | 60.2069 | 110.33749 |
| B 249.678 | 6.6285 | ppb | 0.6159 | 9.3 | -256.694 | - |
| Ba 389.178 | 515.821 | ppb | 0.5917 | 0.1 | 11171.0 | 103.16429 |
| Be 313.042 | 489.166 | ppb | 0.7660 | 0.2 | 796108 | 97.83330 |
| Ca 370.602 | 509506 | ppb | 2862 | 0.6 | 1175978 | 101.90125 |
| Cd 226.502 | 941.966 | ppb | 1.3335 | 0.1 | 35954.2 | 94.19657 |
| Co 228.615 | 479.900 | ppb | 0.8140 | 0.2 | 4989.53 | 95.97992 |
| Cr 267.716 | 491.213 | ppb | 0.3687 | 0.1 | 24483.7 | 98.24258 |
| Cu 324.754 | 590.265 | ppb | 1.7352 | 0.3 | 41759.5 | 118.05309 |
| Fe 271.441 | 190934 | ppb | 67.2267 | 0.0 | 268948 | 95.46714 |
| K 766.491 | 7.3064 | ppb | 0.3258 | 4.5 | 637.636 | - |
| Mg 279.078 | 520762 | ppb | 690.831 | 0.1 | 1265017 | 104.15243 |
| Mn 257.610 | 516.865 | ppb | 0.2568 | 0.0 | 111271 | 103.37301 |
| Mo 202.032 | 990.330 | ppb | 1.6747 | 0.2 | 6126.15 | 99.03304 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Na 330.237 | -27.2883 | ppb | 89.1478 | 326.7 | -47.2398 | - |
| Ni 231.604 | 926.461 | ppb | 4.9466 | 0.5 | 2575.41 | 92.64612 |
| Pb 220.353 | 40.7911 | ppb | 1.2053 | 3.0 | 39.1996 | 81.58218 |
| Sb 206.834 | 640.560 | ppb | 5.7727 | 0.9 | 840.831 | 106.75998 |
| Se 196.026 | 58.2475 | ppb | 12.1414 | 20.8 | 26.7171 | 116.49503 |
| Sn 189.925 | 981.905 | ppb | 7.2666 | 0.7 | 640.214 | 98.19049 |
| Sr 216.596 | 9.3847 | ppb | 0.4599 | 4.9 | 449.587 | - |
| Ti 334.941 | 0.3481 | ppb | 0.0156 | 4.5 | 956.467 | - |
| Tl 190.794 | 83.1121 | ppb | 3.0397 | 3.7 | 51.5624 | 83.11214 |
| V 292.401 | 492.343 | ppb | 0.3661 | 0.1 | 12645.5 | 98.46870 |
| Zn 206.200 | 931.571 | ppb | 3.9542 | 0.4 | 833.080 | 93.15707 |

**LRA1 (Samp)** **10/15/2014, 10:26:00 AM** **Rack S, Tube 7**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.3952 | 0.3660 | 0.3705 |
| Al 308.215 | 52.5158 | 52.2972 | 48.6613 |
| As 188.980 | 19958.2x | 20072.2x | 20030.9x |
| B 249.678 | 4790.71 | 4811.94 | 4830.45 |
| Ba 389.178 | -0.4814u | -0.1169u | -0.3162u |
| Be 313.042 | 0.0994 | 0.1076 | 0.1070 |
| Ca 370.602 | 914.0 | 888.6 | 863.4 |
| Cd 226.502 | -3.0827u | -3.2392u | -3.2272u |
| Co 228.615 | 9517.07 | 9556.38 | 9523.07 |
| Cr 267.716 | -1.2618 | -1.4077 | -1.2424 |
| Cu 324.754 | -4.2652u | -3.8366u | -4.0291u |
| Fe 271.441 | -33.4918 | -45.8695 | -36.8060 |
| K 766.491 | 1.4150 | 1.2475 | 1.7199 |
| Mg 279.078 | -6.0770u | -4.7705u | -13.2991u |
| Mn 257.610 | 26467.5 | 26800.4 | 26774.4 |
| Mo 202.032 | 2.6932 | 2.1889 | 1.9176 |
| Na 330.237 | 660.249u | 667.876u | 854.077u |
| Ni 231.604 | 9644.83x | 9654.13x | 9642.27x |
| Pb 220.353 | 19455.4x | 19441.0x | 19457.3x |
| Sb 206.834 | 5.3130 | 5.2901 | 5.5690 |
| Se 196.026 | 7.8354 | 1.2192 | -2.6310 |
| Sn 189.925 | -0.6472u | 3.5755 | 0.5999 |
| Sr 216.596 | 1.5643u | 0.8773u | 0.5335u |
| Ti 334.941 | 29159.2x | 29013.5x | 28999.0x |
| Tl 190.794 | 7.5679 | 7.9833 | 5.8086 |
| V 292.401 | -8.6767 | -8.4321 | -8.4046 |
| Zn 206.200 | 4.7835 | 2.9273 | 2.3916 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.3772b | ppb | 0.0157 | 4.2 | 145.381 |
| Al 308.215 | 51.1581b | ppb | 2.1651 | 4.2 | 672.207 |
| As 188.980 | 20020.4xb | ppb | 57.7280 | 0.3 | 10738.2 |
| B 249.678 | 4811.03b | ppb | 19.8864 | 0.4 | 72781.3 |
| Ba 389.178 | -0.3048b | ppb | 0.1825 | 59.9 | -56.8473 |
| Be 313.042 | 0.1046b | ppb | 0.0046 | 4.4 | -160.372 |
| Ca 370.602 | 888.7b | ppb | 25.28 | 2.8 | 13000 |
| Cd 226.502 | -3.1830b | ppb | 0.0871 | 2.7 | -103.143 |
| Co 228.615 | 9532.17b | ppb | 21.1764 | 0.2 | 99855.2 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | -1.3040b | ppb | 0.0903 | 6.9 | 143.157 |
| Cu 324.754 | -4.0436b | ppb | 0.2147 | 5.3 | -33.7046 |
| Fe 271.441 | -38.7225b | ppb | 6.4075 | 16.5 | 986.709 |
| K 766.491 | 1.4608b | ppb | 0.2395 | 16.4 | 387.572 |
| Mg 279.078 | -8.0488b | ppb | 4.5935 | 57.1 | -492.604 |
| Mn 257.610 | 26680.8b | ppb | 185.138 | 0.7 | 5517407 |
| Mo 202.032 | 2.2666b | ppb | 0.3936 | 17.4 | 20.2616 |
| Na 330.237 | 727.401b | ppb | 109.771 | 15.1 | -1.4005 |
| Ni 231.604 | 9647.08xb | ppb | 6.2374 | 0.1 | 26698.1 |
| Pb 220.353 | 19451.2xb | ppb | 8.9169 | 0.0 | 27725.6 |
| Sb 206.834 | 5.3907b | ppb | 0.1548 | 2.9 | 8.2296 |
| Se 196.026 | 2.1412b | ppb | 5.2938 | 247.2 | 8.6989 |
| Sn 189.925 | 1.1761b | ppb | 2.1695 | 184.5 | -4.6001 |
| Sr 216.596 | 0.9917b | ppb | 0.5248 | 52.9 | -225.106 |
| Ti 334.941 | 29057.2xb | ppb | 88.6218 | 0.3 | 8062775 |
| Tl 190.794 | 7.1199b | ppb | 1.1545 | 16.2 | 39.4168 |
| V 292.401 | -8.5045b | ppb | 0.1498 | 1.8 | 204.588 |
| Zn 206.200 | 3.3675b | ppb | 1.2552 | 37.3 | 4.2144 |

**LRA2 (Samp)** **10/15/2014, 10:30:19 AM** **Rack S, Tube 8**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1522u | 0.5571u | 1.1885u |
| Al 308.215 | 857972 | 857244 | 854643 |
| As 188.980 | 120.074 | 85.9399 | 65.0831 |
| B 249.678 | 96.7232u | 84.2333u | 77.1564u |
| Ba 389.178 | 9.4592 | 11.4035 | 9.7363 |
| Be 313.042 | -0.2022u | -0.2004u | -0.2066u |
| Ca 370.602 | 782086 | 773343 | 770294 |
| Cd 226.502 | 14.2300 | 14.6989 | 14.4486 |
| Co 228.615 | -15.6048u | -13.3418u | -15.9080u |
| Cr 267.716 | -5.0637 | -5.2606 | -5.2266 |
| Cu 324.754 | 2.2959 | 1.9845 | 2.1896 |
| Fe 271.441 | 896699 | 896680 | 899493 |
| K 766.491 | 19.7568 | 20.4473 | 20.5572 |
| Mg 279.078 | 773021 | 772927 | 770911 |
| Mn 257.610 | 6.2763 | 5.9459 | 6.0295 |
| Mo 202.032 | 5.0994u | 2.7147u | 4.6036u |
| Na 330.237 | 33.1387u | -6.1372u | -166.982u |
| Ni 231.604 | -17.8091 | -17.7593 | -16.7664 |
| Pb 220.353 | -17.2626u | -7.6094u | -18.4359u |
| Sb 206.834 | 16.8441 | 4.4282 | 6.4115 |
| Se 196.026 | -8.7425 | 1.9550 | 17.7384 |
| Sn 189.925 | 7.8044 | 2.8354 | 4.0028 |
| Sr 216.596 | 19.1881 | 19.7853 | 18.3184 |
| Ti 334.941 | 5.2029 | 4.8240 | 4.3826 |
| Tl 190.794 | -56.3102u | -42.9669u | -46.8586u |
| V 292.401 | -6.1824 | -6.3169 | -6.4217 |
| Zn 206.200 | 8.3002u | 21.4022u | 17.2927u |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.6326 | ppb | 0.5222 | 82.6 | -113.172 |
| Al 308.215 | 856620 | ppb | 1750.07 | 0.2 | 5670420 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 90.3658 | ppb | 27.7615 | 30.7 | 48.5767 |
| B 249.678 | 86.0376 | ppb | 9.9074 | 11.5 | -547.164 |
| Ba 389.178 | 10.1997 | ppb | 1.0517 | 10.3 | 1582.57 |
| Be 313.042 | -0.2031 | ppb | 0.0032 | 1.6 | -399.276 |
| Ca 370.602 | 775241 | ppb | 6121 | 0.8 | 1783360 |
| Cd 226.502 | 14.4592 | ppb | 0.2346 | 1.6 | 3771.85 |
| Co 228.615 | -14.9515 | ppb | 1.4023 | 9.4 | -97.1236 |
| Cr 267.716 | -5.1836 | ppb | 0.1052 | 2.0 | 176.044 |
| Cu 324.754 | 2.1567 | ppb | 0.1583 | 7.3 | 772.719 |
| Fe 271.441 | 897624 | ppb | 1618.84 | 0.2 | 1264090 |
| K 766.491 | 20.2538 | ppb | 0.4339 | 2.1 | 1191.50 |
| Mg 279.078 | 772286 | ppb | 1192.17 | 0.2 | 1876002 |
| Mn 257.610 | 6.0839 | ppb | 0.1718 | 2.8 | 9496.77 |
| Mo 202.032 | 4.1392 | ppb | 1.2583 | 30.4 | -6.4032 |
| Na 330.237 | -46.6601 | ppb | 106.036 | 227.3 | -191.827 |
| Ni 231.604 | -17.4449 | ppb | 0.5882 | 3.4 | 15.7841 |
| Pb 220.353 | -14.4360 | ppb | 5.9410 | 41.2 | -85.1589 |
| Sb 206.834 | 9.2279 | ppb | 6.6700 | 72.3 | 40.1333 |
| Se 196.026 | 3.6503 | ppb | 13.3216 | 364.9 | 10.9588 |
| Sn 189.925 | 4.8809 | ppb | 2.5983 | 53.2 | -2.1653 |
| Sr 216.596 | 19.0973 | ppb | 0.7376 | 3.9 | 1430.71 |
| Ti 334.941 | 4.8032 | ppb | 0.4106 | 8.5 | 2709.43 |
| Tl 190.794 | -48.7119 | ppb | 6.8620 | 14.1 | -161.523 |
| V 292.401 | -6.3070 | ppb | 0.1200 | 1.9 | 153.603 |
| Zn 206.200 | 15.6650 | ppb | 6.7009 | 42.8 | -18.9477 |

**LRA3 (Samp)** **10/15/2014, 10:34:38 AM** **Rack S, Tube 9**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1514u | 0.1455 | -0.1889u |
| Al 308.215 | 50.4856 | 44.7248 | 43.9903 |
| As 188.980 | 20.3072 | 22.0734 | 18.4247 |
| B 249.678 | 20.5716 | 18.9968 | 18.2953 |
| Ba 389.178 | -0.1311u | 0.3088 | 0.2681 |
| Be 313.042 | 0.0165 | 0.0196 | 0.0149 |
| Ca 370.602 | 53.16 | 47.22 | 50.11 |
| Cd 226.502 | 0.0779 | -0.0726u | 0.0303 |
| Co 228.615 | 0.2799 | -0.0067u | -0.2870u |
| Cr 267.716 | 0.0577 | 0.1172 | 0.1556 |
| Cu 324.754 | 0.1531 | 0.0068 | 0.2429 |
| Fe 271.441 | 51.0176 | 45.3133 | 48.9524 |
| K 766.491 | 39952.7x | 39684.9x | 39762.3x |
| Mg 279.078 | 43.1980 | 38.1996 | 35.8507 |
| Mn 257.610 | 0.4910 | 0.4601 | 0.4756 |
| Mo 202.032 | -0.4520u | 0.1075 | 0.4784 |
| Na 330.237 | 104667 | 103891 | 103156 |
| Ni 231.604 | 0.7661 | 0.1025 | 0.0602 |
| Pb 220.353 | 1.1491 | 2.5666 | -1.5835u |
| Sb 206.834 | 1.0829 | 5.9543 | 2.1768 |
| Se 196.026 | 5.4791 | -3.8384u | 8.2814 |
| Sn 189.925 | -2.7745u | 2.4837 | 0.8856 |
| Sr 216.596 | -0.0025 | 0.3893 | -0.1214u |
| Ti 334.941 | 0.8104 | 0.7878 | 0.7068 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -0.9473u | -1.1320u | 1.3534 |
| V 292.401 | 0.0642 | 0.2079 | 0.0049u |
| Zn 206.200 | 28479.1x | 28362.7x | 28314.3x |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0650b | ppb | 0.1832 | 282.1 | -15.4906 |
| Al 308.215 | 46.4002b | ppb | 3.5571 | 7.7 | 701.490 |
| As 188.980 | 20.2684b | ppb | 1.8247 | 9.0 | 8.4618 |
| B 249.678 | 19.2879b | ppb | 1.1657 | 6.0 | 327.160 |
| Ba 389.178 | 0.1486b | ppb | 0.2431 | 163.6 | -47.6939 |
| Be 313.042 | 0.0170b | ppb | 0.0024 | 14.1 | -298.987 |
| Ca 370.602 | 50.16b | ppb | 2.969 | 5.9 | 126.9 |
| Cd 226.502 | 0.0119b | ppb | 0.0769 | 648.3 | 13.3007 |
| Co 228.615 | -0.0046b | ppb | 0.2835 | 6205.4 | 3.1490 |
| Cr 267.716 | 0.1102b | ppb | 0.0493 | 44.7 | 37.8587 |
| Cu 324.754 | 0.1343b | ppb | 0.1192 | 88.8 | 259.328 |
| Fe 271.441 | 48.4278b | ppb | 2.8881 | 6.0 | 75.0229 |
| K 766.491 | 39799.9xb | ppb | 137.789 | 0.3 | 1702894 |
| Mg 279.078 | 39.0828b | ppb | 3.7525 | 9.6 | 113.859 |
| Mn 257.610 | 0.4755b | ppb | 0.0155 | 3.2 | 139.008 |
| Mo 202.032 | 0.0446b | ppb | 0.4684 | 1049.3 | 6.5497 |
| Na 330.237 | 103904b | ppb | 755.626 | 0.7 | 4284.04 |
| Ni 231.604 | 0.3096b | ppb | 0.3959 | 127.9 | -3.8865 |
| Pb 220.353 | 0.7108b | ppb | 2.1095 | 296.8 | 1.4455 |
| Sb 206.834 | 3.0713b | ppb | 2.5559 | 83.2 | 5.1761 |
| Se 196.026 | 3.3074b | ppb | 6.3450 | 191.8 | 4.0139 |
| Sn 189.925 | 0.1983b | ppb | 2.6956 | 1359.6 | -5.2158 |
| Sr 216.596 | 0.0885b | ppb | 0.2672 | 302.0 | 3.4272 |
| Ti 334.941 | 0.7684b | ppb | 0.0545 | 7.1 | 144.087 |
| Tl 190.794 | -0.2420b | ppb | 1.3847 | 572.3 | -6.2041 |
| V 292.401 | 0.0923b | ppb | 0.1044 | 113.0 | -5.3726 |
| Zn 206.200 | 28385.4xb | ppb | 84.6998 | 0.3 | 25609.7 |

**Cont Calib Verif (CCV)** **10/15/2014, 10:38:54 AM** **Rack 1, Tube 1**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 478.009 | 475.121 | 480.229 |
| Al 308.215 | 4671.78 | 4716.29 | 4740.73 |
| As 188.980 | 466.290 | 453.361 | 457.151 |
| B 249.678 | 479.032 | 481.979 | 484.216 |
| Ba 389.178 | 4760.59 | 4769.10 | 4786.00 |
| Be 313.042 | 476.803 | 478.187 | 478.528 |
| Ca 370.602 | 4792 | 4779 | 4800 |
| Cd 226.502 | 478.666 | 478.799 | 481.330 |
| Co 228.615 | 483.126 | 481.778 | 484.954 |
| Cr 267.716 | 4766.73 | 4773.14 | 4784.05 |
| Cu 324.754 | 4932.73 | 4933.85 | 4904.58 |
| Fe 271.441 | 4772.59 | 4769.04 | 4788.25 |
| K 766.491 | 9995.97 | 9993.40 | 10087.6 |
| Mg 279.078 | 4748.06 | 4757.49 | 4757.99 |
| Mn 257.610 | 4859.00 | 4870.18 | 4905.35 |
| Mo 202.032 | 475.281 | 477.687 | 479.756 |
| Na 330.237 | 7385.70 | 7412.08 | 7467.21 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 2419.50 | 2424.41 | 2432.37 |
| Pb 220.353 | 484.978 | 482.873 | 483.966 |
| Sb 206.834 | 907.015 | 908.929 | 911.605 |
| Se 196.026 | 4754.97 | 4736.13 | 4775.84 |
| Sn 189.925 | 4779.73 | 4794.68 | 4818.90 |
| Sr 216.596 | 2374.50 | 2377.21 | 2382.09 |
| Ti 334.941 | 475.320 | 475.531 | 478.508 |
| Tl 190.794 | 4867.96 | 4887.78 | 4895.44 |
| V 292.401 | 4751.41 | 4748.57 | 4781.55 |
| Zn 206.200 | 2387.48 | 2386.46 | 2386.23 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 477.787 | ppb | 2.5613 | 0.5 | 36900.5 | 95.55733 |
| Al 308.215 | 4709.60 | ppb | 34.9585 | 0.7 | 32057.2 | 94.19196 |
| As 188.980 | 458.934 | ppb | 6.6465 | 1.4 | 243.703 | 91.78681 |
| B 249.678 | 481.742 | ppb | 2.6000 | 0.5 | 7322.09 | 96.34843 |
| Ba 389.178 | 4771.90 | ppb | 12.9322 | 0.3 | 96749.5 | 95.43790 |
| Be 313.042 | 477.839 | ppb | 0.9135 | 0.2 | 777763 | 95.56783 |
| Ca 370.602 | 4790 | ppb | 10.57 | 0.2 | 11341 | 95.80592 |
| Cd 226.502 | 479.598 | ppb | 1.5009 | 0.3 | 17978.9 | 95.91968 |
| Co 228.615 | 483.286 | ppb | 1.5940 | 0.3 | 5041.80 | 96.65725 |
| Cr 267.716 | 4774.64 | ppb | 8.7582 | 0.2 | 236932 | 95.49283 |
| Cu 324.754 | 4923.72 | ppb | 16.5830 | 0.3 | 345536 | 98.47443 |
| Fe 271.441 | 4776.63 | ppb | 10.2198 | 0.2 | 6829.05 | 95.53256 |
| K 766.491 | 10025.6 | ppb | 53.6424 | 0.5 | 429204 | 100.25649 |
| Mg 279.078 | 4754.51 | ppb | 5.5947 | 0.1 | 11478.6 | 95.09024 |
| Mn 257.610 | 4878.17 | ppb | 24.1891 | 0.5 | 1008856 | 97.56348 |
| Mo 202.032 | 477.574 | ppb | 2.2398 | 0.5 | 2956.75 | 95.51488 |
| Na 330.237 | 7421.66 | ppb | 41.5923 | 0.6 | 316.029 | 98.95552 |
| Ni 231.604 | 2425.43 | ppb | 6.4912 | 0.3 | 6713.36 | 97.01707 |
| Pb 220.353 | 483.939 | ppb | 1.0528 | 0.2 | 693.638 | 96.78773 |
| Sb 206.834 | 909.183 | ppb | 2.3053 | 0.3 | 1243.75 | 90.91827 |
| Se 196.026 | 4755.65 | ppb | 19.8607 | 0.4 | 1834.70 | 95.11291 |
| Sn 189.925 | 4797.77 | ppb | 19.7633 | 0.4 | 3149.09 | 95.95544 |
| Sr 216.596 | 2377.93 | ppb | 3.8467 | 0.2 | 25925.2 | 95.11729 |
| Ti 334.941 | 476.453 | ppb | 1.7828 | 0.4 | 132153 | 95.29063 |
| Tl 190.794 | 4883.72 | ppb | 14.1815 | 0.3 | 4776.60 | 97.67448 |
| V 292.401 | 4760.51 | ppb | 18.2759 | 0.4 | 123105 | 95.21018 |
| Zn 206.200 | 2386.73 | ppb | 0.6671 | 0.0 | 2141.95 | 95.46900 |

**Cont Calib Blank (CCB)** **10/15/2014, 10:43:09 AM** **Rack 1, Tube 2**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.2545 | -0.0728u | 0.2086 |
| Al 308.215 | 6.9178 | 5.9634 | 7.2208 |
| As 188.980 | 13.3386 | 4.0039 | 9.2905 |
| B 249.678 | 13.4946 | 12.5614 | 11.5205 |
| Ba 389.178 | 0.3297 | 0.9035 | 0.4358 |
| Be 313.042 | 0.0362 | 0.0423 | 0.0495 |
| Ca 370.602 | 2.821 | 3.244 | 1.227 |
| Cd 226.502 | -0.0058u | 0.0167 | -0.0592u |
| Co 228.615 | 0.1345 | 0.6418 | -0.2575u |
| Cr 267.716 | 0.2840 | 0.3697 | 0.4056 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 0.3357 | 0.1572 | 0.1768 |
| Fe 271.441 | 3.8269 | 0.4826 | 1.0384 |
| K 766.491 | -0.6914u | -0.2158u | 0.1836 |
| Mg 279.078 | 1.3506 | -2.4632u | 1.7232 |
| Mn 257.610 | 0.3746 | 0.4056 | 0.3996 |
| Mo 202.032 | 1.1745 | 0.8032 | 0.6588 |
| Na 330.237 | -108.869u | -2.0613u | -159.575u |
| Ni 231.604 | 1.0675 | 0.9037 | 1.1181 |
| Pb 220.353 | 2.0769 | 2.2233 | 1.1934 |
| Sb 206.834 | 2.8956 | 4.2842 | 5.0234 |
| Se 196.026 | 1.7022 | 7.3891 | 2.7569 |
| Sn 189.925 | 2.6738 | 0.3055 | 0.6586 |
| Sr 216.596 | 0.4187 | 0.0751 | 0.7041 |
| Ti 334.941 | 0.2354 | 0.2318 | 0.2104 |
| Tl 190.794 | 1.9166 | -0.4302u | 0.8724 |
| V 292.401 | 0.5413 | 0.0201 | 0.4232 |
| Zn 206.200 | 0.4966 | -1.0922u | 1.3163 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.1301 | ppb | 0.1772 | 136.2 | -0.3973 | 0.13010 |
| Al 308.215 | 6.7007 | ppb | 0.6562 | 9.8 | 438.782 | 6.70069 |
| As 188.980 | 8.8776 | ppb | 4.6810 | 52.7 | 2.3506 | 8.87763 |
| B 249.678 | 12.5255 | ppb | 0.9876 | 7.9 | 224.924 | 12.52546 |
| Ba 389.178 | 0.5564 | ppb | 0.3053 | 54.9 | -39.4939 | 0.55635 |
| Be 313.042 | 0.0427 | ppb | 0.0066 | 15.5 | -247.699 | 0.04266 |
| Ca 370.602 | 2.431 | ppb | 1.064 | 43.8 | 16.82 | 2.43058 |
| Cd 226.502 | -0.0161 | ppb | 0.0390 | 242.0 | 12.6063 | -0.01612 |
| Co 228.615 | 0.1729 | ppb | 0.4509 | 260.7 | 4.9364 | 0.17294 |
| Cr 267.716 | 0.3531 | ppb | 0.0625 | 17.7 | 48.6541 | 0.35312 |
| Cu 324.754 | 0.2232 | ppb | 0.0979 | 43.9 | 265.576 | 0.22321 |
| Fe 271.441 | 1.7826 | ppb | 1.7920 | 100.5 | 9.3713 | 1.78264 |
| K 766.491 | -0.2412 | ppb | 0.4381 | 181.6 | 314.764 | -0.24120 |
| Mg 279.078 | 0.2035 | ppb | 2.3169 | 1138.3 | 19.4169 | 0.20355 |
| Mn 257.610 | 0.3933 | ppb | 0.0164 | 4.2 | 122.033 | 0.39327 |
| Mo 202.032 | 0.8788 | ppb | 0.2660 | 30.3 | 11.7135 | 0.87880 |
| Na 330.237 | -90.1686 | ppb | 80.4047 | 89.2 | 17.7409 | -90.16856 |
| Ni 231.604 | 1.0298 | ppb | 0.1121 | 10.9 | -1.9246 | 1.02976 |
| Pb 220.353 | 1.8312 | ppb | 0.5572 | 30.4 | 3.0459 | 1.83121 |
| Sb 206.834 | 4.0678 | ppb | 1.0803 | 26.6 | 6.4762 | 4.06776 |
| Se 196.026 | 3.9494 | ppb | 3.0252 | 76.6 | 4.2607 | 3.94943 |
| Sn 189.925 | 1.2126 | ppb | 1.2777 | 105.4 | -4.5755 | 1.21264 |
| Sr 216.596 | 0.3993 | ppb | 0.3150 | 78.9 | 6.7238 | 0.39933 |
| Ti 334.941 | 0.2259 | ppb | 0.0135 | 6.0 | 0.8008 | 0.22587 |
| Tl 190.794 | 0.7862 | ppb | 1.1758 | 149.5 | -5.1945 | 0.78624 |
| V 292.401 | 0.3282 | ppb | 0.2733 | 83.3 | 1.2693 | 0.32819 |
| Zn 206.200 | 0.2402 | ppb | 1.2246 | 509.7 | 1.4224 | 0.24024 |

**mb 680-353387/1-a (Samp)** **10/15/2014, 10:47:24 AM** **Rack 1, Tube 3**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1466 | -0.3823u | 0.0758 |
| Al 308.215 | 9.7302 | 7.1834 | 7.9225 |
| As 188.980 | 3.3243 | 7.8960 | 5.1705 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 6.9957 | 6.7990 | 6.0282 |
| Ba 389.178 | 0.1200 | -0.2153u | -0.3488u |
| Be 313.042 | 0.0227 | 0.0144 | 0.0136 |
| Ca 370.602 | 10.44 | -0.1483u | 3.966 |
| Cd 226.502 | 0.1159 | 0.0887 | -0.0356u |
| Co 228.615 | -0.0210u | -0.4936u | 0.0722 |
| Cr 267.716 | 0.2356 | 0.3604 | 0.5051 |
| Cu 324.754 | -0.1804u | -0.0991u | 0.0256 |
| Fe 271.441 | 4.0402 | 5.4152 | 8.9257 |
| K 766.491 | -0.9545u | -1.2798u | -1.2211u |
| Mg 279.078 | -2.0054u | 0.0077 | -0.0969u |
| Mn 257.610 | 0.1954 | 0.1561 | 0.1999 |
| Mo 202.032 | 0.9367 | 0.2928 | 0.2450 |
| Na 330.237 | -27.3321u | 1.5573 | -81.2813u |
| Ni 231.604 | 1.0419 | 0.9031 | -0.9826u |
| Pb 220.353 | 0.6090 | 0.7813 | 2.8672 |
| Sb 206.834 | 0.3925 | 1.4194 | 0.8287 |
| Se 196.026 | 3.3693 | 10.5249 | 1.7766 |
| Sn 189.925 | 7.1322 | 3.4412 | 3.0697 |
| Sr 216.596 | 0.3656 | 0.4546 | 0.0186 |
| Ti 334.941 | 0.1861 | 0.1609 | 0.1594 |
| Tl 190.794 | 3.3367 | 2.0708 | 0.1922 |
| V 292.401 | 0.1227 | -0.2200u | 0.1717 |
| Zn 206.200 | 2.0087 | 3.5233 | 0.7241 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0533 | ppb | 0.2871 | 538.9 | -14.5867 |
| Al 308.215 | 8.2787 | ppb | 1.3102 | 15.8 | 449.187 |
| As 188.980 | 5.4636 | ppb | 2.2999 | 42.1 | 0.5191 |
| B 249.678 | 6.6076 | ppb | 0.5114 | 7.7 | 135.380 |
| Ba 389.178 | -0.1481 | ppb | 0.2416 | 163.2 | -53.7836 |
| Be 313.042 | 0.0169 | ppb | 0.0050 | 29.8 | -289.602 |
| Ca 370.602 | 4.752 | ppb | 5.337 | 112.3 | 22.13 |
| Cd 226.502 | 0.0563 | ppb | 0.0808 | 143.4 | 15.3308 |
| Co 228.615 | -0.1475 | ppb | 0.3034 | 205.7 | 1.6064 |
| Cr 267.716 | 0.3670 | ppb | 0.1349 | 36.8 | 49.3459 |
| Cu 324.754 | -0.0847 | ppb | 0.1038 | 122.6 | 243.974 |
| Fe 271.441 | 6.1270 | ppb | 2.5194 | 41.1 | 15.4316 |
| K 766.491 | -1.1518 | ppb | 0.1734 | 15.1 | 275.810 |
| Mg 279.078 | -0.6982 | ppb | 1.1333 | 162.3 | 17.2294 |
| Mn 257.610 | 0.1838 | ppb | 0.0241 | 13.1 | 78.7065 |
| Mo 202.032 | 0.4915 | ppb | 0.3863 | 78.6 | 9.3170 |
| Na 330.237 | -35.6854 | ppb | 42.0462 | 117.8 | 20.2876 |
| Ni 231.604 | 0.3208 | ppb | 1.1309 | 352.5 | -3.8871 |
| Pb 220.353 | 1.4192 | ppb | 1.2570 | 88.6 | 2.4587 |
| Sb 206.834 | 0.8802 | ppb | 0.5154 | 58.6 | 2.2825 |
| Se 196.026 | 5.2236 | ppb | 4.6596 | 89.2 | 4.7513 |
| Sn 189.925 | 4.5477 | ppb | 2.2460 | 49.4 | -2.3828 |
| Sr 216.596 | 0.2796 | ppb | 0.2304 | 82.4 | 5.4377 |
| Ti 334.941 | 0.1688 | ppb | 0.0150 | 8.9 | -15.0381 |
| Tl 190.794 | 1.8666 | ppb | 1.5821 | 84.8 | -4.1395 |
| V 292.401 | 0.0248 | ppb | 0.2134 | 859.9 | -6.5325 |
| Zn 206.200 | 2.0854 | ppb | 1.4012 | 67.2 | 3.0868 |

**lcs 680-353387/2-a (Samp)** **10/15/2014, 10:51:39 AM** **Rack 1, Tube 4**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 48.9367 | 48.8247 | 49.0021 |
| Al 308.215 | 4724.58 | 4730.72 | 4738.23 |
| As 188.980 | 112.090 | 108.685 | 108.188 |
| B 249.678 | 192.263 | 193.487 | 195.205 |
| Ba 389.178 | 96.8599 | 95.9691 | 97.0833 |
| Be 313.042 | 49.7755 | 49.7963 | 49.8599 |
| Ca 370.602 | 4788 | 4777 | 4818 |
| Cd 226.502 | 48.3861 | 48.4502 | 48.9698 |
| Co 228.615 | 49.6007 | 49.2210 | 49.0267 |
| Cr 267.716 | 98.3575 | 98.3770 | 98.3375 |
| Cu 324.754 | 99.4372 | 100.227 | 100.506 |
| Fe 271.441 | 4842.96 | 4856.33 | 4850.82 |
| K 766.491 | 4947.35 | 4938.38 | 4927.48 |
| Mg 279.078 | 4696.55 | 4699.93 | 4717.29 |
| Mn 257.610 | 505.353 | 506.725 | 507.716 |
| Mo 202.032 | 97.2835 | 97.9277 | 97.6701 |
| Na 330.237 | 4775.89 | 4601.34 | 4615.79 |
| Ni 231.604 | 96.7864 | 96.9450 | 98.5043 |
| Pb 220.353 | 479.974 | 478.778 | 488.276 |
| Sb 206.834 | 49.1840 | 48.4556 | 47.2359 |
| Se 196.026 | 98.2044 | 107.233 | 90.8337 |
| Sn 189.925 | 184.467 | 186.012 | 195.051 |
| Sr 216.596 | 94.3387 | 95.0876 | 95.5324 |
| Ti 334.941 | 98.7972 | 98.7403 | 98.9540 |
| Tl 190.794 | 35.7432 | 36.2906 | 39.4819 |
| V 292.401 | 98.0009 | 97.9609 | 98.4107 |
| Zn 206.200 | 97.8748 | 97.2706 | 98.7084 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 48.9212 | ppb | 0.0897 | 0.2 | 3771.94 |
| Al 308.215 | 4731.18 | ppb | 6.8366 | 0.1 | 31725.0 |
| As 188.980 | 109.654 | ppb | 2.1238 | 1.9 | 56.4075 |
| B 249.678 | 193.652 | ppb | 1.4779 | 0.8 | 2954.13 |
| Ba 389.178 | 96.6374 | ppb | 0.5895 | 0.6 | 1918.17 |
| Be 313.042 | 49.8106 | ppb | 0.0440 | 0.1 | 80766.0 |
| Ca 370.602 | 4794 | ppb | 21.03 | 0.4 | 11093 |
| Cd 226.502 | 48.6020 | ppb | 0.3201 | 0.7 | 1849.46 |
| Co 228.615 | 49.2828 | ppb | 0.2920 | 0.6 | 516.352 |
| Cr 267.716 | 98.3573 | ppb | 0.0198 | 0.0 | 4915.10 |
| Cu 324.754 | 100.057 | ppb | 0.5542 | 0.6 | 7271.93 |
| Fe 271.441 | 4850.03 | ppb | 6.7199 | 0.1 | 6843.20 |
| K 766.491 | 4937.74 | ppb | 9.9481 | 0.2 | 211552 |
| Mg 279.078 | 4704.59 | ppb | 11.1273 | 0.2 | 11437.8 |
| Mn 257.610 | 506.598 | ppb | 1.1865 | 0.2 | 104849 |
| Mo 202.032 | 97.6271 | ppb | 0.3242 | 0.3 | 610.122 |
| Na 330.237 | 4664.34 | ppb | 96.8737 | 2.1 | 241.264 |
| Ni 231.604 | 97.4119 | ppb | 0.9494 | 1.0 | 265.334 |
| Pb 220.353 | 482.343 | ppb | 5.1734 | 1.1 | 687.862 |
| Sb 206.834 | 48.2918 | ppb | 0.9843 | 2.0 | 64.4546 |
| Se 196.026 | 98.7569 | ppb | 8.2134 | 8.3 | 40.8969 |
| Sn 189.925 | 188.510 | ppb | 5.7173 | 3.0 | 118.571 |
| Sr 216.596 | 94.9862 | ppb | 0.6033 | 0.6 | 1043.60 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 98.8305 | ppb | 0.1107 | 0.1 | 27370.1 |
| Tl 190.794 | 37.1719 | ppb | 2.0192 | 5.4 | 29.9999 |
| V 292.401 | 98.1242 | ppb | 0.2489 | 0.3 | 2519.49 |
| Zn 206.200 | 97.9513 | ppb | 0.7220 | 0.7 | 89.1364 |

**680-106149-b-1-a (Samp)** **10/15/2014, 10:55:55 AM** **Rack 1, Tube 5**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 18.0775 | 18.1687 | 18.3628 |
| Al 308.215 | 454.517 | 454.665 | 457.316 |
| As 188.980 | -1.6636u | 9.8747 | 12.7812 |
| B 249.678 | 1634.40 | 1645.53 | 1647.41 |
| Ba 389.178 | 11.6037 | 10.7454 | 10.5223 |
| Be 313.042 | 0.2019u | 0.2029u | 0.2063u |
| Ca 370.602 | 22503 | 22692 | 22766 |
| Cd 226.502 | 58.9003 | 59.3175 | 59.1053 |
| Co 228.615 | 1.6849 | 1.4959 | 2.6297 |
| Cr 267.716 | 166.180 | 167.681 | 168.063 |
| Cu 324.754 | 47.4621 | 47.5561 | 47.1431 |
| Fe 271.441 | 371.045 | 362.703 | 367.767 |
| K 766.491 | 28999.2 | 28869.1 | 28771.5 |
| Mg 279.078 | 1318.35 | 1318.22 | 1325.35 |
| Mn 257.610 | 6.0319 | 6.0196 | 5.9764 |
| Mo 202.032 | 5.2706 | 4.5094 | 4.0995 |
| Na 330.237 | 3447877x | 3462922x | 3488746x |
| Ni 231.604 | 58.4703 | 57.2159 | 58.6228 |
| Pb 220.353 | -0.3728u | -2.1138u | -2.9550u |
| Sb 206.834 | 1.5941 | 4.0772 | 7.1226 |
| Se 196.026 | 18.8103 | 27.9870 | 16.5492 |
| Sn 189.925 | -2.5527u | 1.4551 | -1.9099u |
| Sr 216.596 | 79.8274 | 79.5319 | 78.6322 |
| Ti 334.941 | 20.5045 | 20.6551 | 20.6161 |
| Tl 190.794 | -4.2518u | -4.1865u | -5.1755u |
| V 292.401 | 5.8487 | 5.9541 | 5.7512 |
| Zn 206.200 | 12.1073 | 16.0302 | 16.9205 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 18.2030b | ppb | 0.1457 | 0.8 | 1394.82 |
| Al 308.215 | 455.499b | ppb | 1.5753 | 0.3 | 3409.87 |
| As 188.980 | 6.9974b | ppb | 7.6402 | 109.2 | 1.3429 |
| B 249.678 | 1642.44b | ppb | 7.0318 | 0.4 | 24870.1 |
| Ba 389.178 | 10.9571b | ppb | 0.5709 | 5.2 | 173.326 |
| Be 313.042 | 0.2037b | ppb | 0.0023 | 1.1 | -325.898 |
| Ca 370.602 | 22654b | ppb | 135.7 | 0.6 | 52383 |
| Cd 226.502 | 59.1077b | ppb | 0.2086 | 0.4 | 2207.17 |
| Co 228.615 | 1.9368b | ppb | 0.6074 | 31.4 | 23.9778 |
| Cr 267.716 | 167.308b | ppb | 0.9955 | 0.6 | 8396.56 |
| Cu 324.754 | 47.3871b | ppb | 0.2164 | 0.5 | 3573.72 |
| Fe 271.441 | 367.172b | ppb | 4.2026 | 1.1 | 524.444 |
| K 766.491 | 28879.9b | ppb | 114.260 | 0.4 | 1235756 |
| Mg 279.078 | 1320.64b | ppb | 4.0801 | 0.3 | 3227.18 |
| Mn 257.610 | 6.0093b | ppb | 0.0291 | 0.5 | 1277.45 |
| Mo 202.032 | 4.6265b | ppb | 0.5943 | 12.8 | 34.8858 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 3466515xb | ppb | 20669.6 | 0.6 | 165743 |
| Ni 231.604 | 58.1030b | ppb | 0.7721 | 1.3 | 156.202 |
| Pb 220.353 | -1.8139b | ppb | 1.3170 | 72.6 | -2.0684 |
| Sb 206.834 | 4.2646b | ppb | 2.7690 | 64.9 | 8.4488 |
| Se 196.026 | 21.1155b | ppb | 6.0573 | 28.7 | 10.8737 |
| Sn 189.925 | -1.0025b | ppb | 2.1525 | 214.7 | -5.0607 |
| Sr 216.596 | 79.3305b | ppb | 0.6225 | 0.8 | 875.778 |
| Ti 334.941 | 20.5919b | ppb | 0.0781 | 0.4 | 5387.33 |
| Tl 190.794 | -4.5380b | ppb | 0.5531 | 12.2 | -10.4405 |
| V 292.401 | 5.8513b | ppb | 0.1015 | 1.7 | 111.254 |
| Zn 206.200 | 15.0193b | ppb | 2.5609 | 17.1 | 14.3094 |

**680-106149-b-1-aSD (Samp)** **10/15/2014, 11:00:11 AM** **Rack 1, Tube 6**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 3.3420 | 3.7190 | 3.7029 |
| Al 308.215 | 102.449 | 101.383 | 99.5454 |
| As 188.980 | 5.5789 | 3.1081 | 2.5560 |
| B 249.678 | 366.932 | 362.397 | 356.386 |
| Ba 389.178 | 1.7156 | 1.2544 | 2.1647 |
| Be 313.042 | 0.0433 | 0.0414 | 0.0459 |
| Ca 370.602 | 5050 | 4919 | 4894 |
| Cd 226.502 | 13.2022 | 13.0590 | 12.7594 |
| Co 228.615 | 0.0690 | 0.5024 | 0.2037 |
| Cr 267.716 | 37.9603 | 37.2167 | 37.0193 |
| Cu 324.754 | 10.4036 | 9.8425 | 9.6896 |
| Fe 271.441 | 83.5795 | 85.4914 | 79.0724 |
| K 766.491 | 4176.46 | 4130.45 | 4030.69 |
| Mg 279.078 | 310.811 | 312.024 | 305.631 |
| Mn 257.610 | 1.3304 | 1.2871 | 1.2838 |
| Mo 202.032 | 0.7287 | 1.5638 | 0.5222 |
| Na 330.237 | 693815x | 679274x | 664328x |
| Ni 231.604 | 12.5991 | 13.6175 | 14.4929 |
| Pb 220.353 | 0.1379 | 0.0059 | -2.2682u |
| Sb 206.834 | 4.2066 | 3.6724 | 1.4232 |
| Se 196.026 | 19.7223 | 15.3896 | 5.6863 |
| Sn 189.925 | -1.0844u | -1.2774u | 0.1200 |
| Sr 216.596 | 17.4261 | 17.7446 | 17.7897 |
| Ti 334.941 | 4.5411 | 4.5646 | 4.3595 |
| Tl 190.794 | 1.6962 | -1.1353u | -3.4073u |
| V 292.401 | 1.3003 | 1.5234 | 1.2736 |
| Zn 206.200 | 4.1293 | -0.0092u | 1.2289 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 3.5879b | ppb | 0.2132 | 5.9 | 266.471 |
| Al 308.215 | 101.126b | ppb | 1.4686 | 1.5 | 1063.85 |
| As 188.980 | 3.7476b | ppb | 1.6097 | 43.0 | -0.4012 |
| B 249.678 | 361.905b | ppb | 5.2903 | 1.5 | 5507.68 |
| Ba 389.178 | 1.7116b | ppb | 0.4552 | 26.6 | -15.6256 |
| Be 313.042 | 0.0435b | ppb | 0.0022 | 5.2 | -312.818 |
| Ca 370.602 | 4954b | ppb | 83.94 | 1.7 | 11465 |
| Cd 226.502 | 13.0069b | ppb | 0.2260 | 1.7 | 496.470 |
| Co 228.615 | 0.2584b | ppb | 0.2218 | 85.9 | 5.9879 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 37.3988b | ppb | 0.4962 | 1.3 | 1899.35 |
| Cu 324.754 | 9.9786b | ppb | 0.3760 | 3.8 | 949.811 |
| Fe 271.441 | 82.7144b | ppb | 3.2958 | 4.0 | 123.382 |
| K 766.491 | 4112.53b | ppb | 74.5193 | 1.8 | 176252 |
| Mg 279.078 | 309.489b | ppb | 3.3953 | 1.1 | 770.779 |
| Mn 257.610 | 1.3004b | ppb | 0.0260 | 2.0 | 308.879 |
| Mo 202.032 | 0.9382b | ppb | 0.5515 | 58.8 | 12.0769 |
| Na 330.237 | 679139xb | ppb | 14744.3 | 2.2 | 32489.2 |
| Ni 231.604 | 13.5698b | ppb | 0.9478 | 7.0 | 32.8204 |
| Pb 220.353 | -0.7081b | ppb | 1.3527 | 191.0 | -0.5556 |
| Sb 206.834 | 3.1007b | ppb | 1.4771 | 47.6 | 5.5928 |
| Se 196.026 | 13.5994b | ppb | 7.1872 | 52.8 | 7.9769 |
| Sn 189.925 | -0.7473b | ppb | 0.7572 | 101.3 | -5.6733 |
| Sr 216.596 | 17.6534b | ppb | 0.1982 | 1.1 | 196.716 |
| Ti 334.941 | 4.4884b | ppb | 0.1122 | 2.5 | 1131.67 |
| Tl 190.794 | -0.9488b | ppb | 2.5568 | 269.5 | -6.9003 |
| V 292.401 | 1.3658b | ppb | 0.1371 | 10.0 | 21.5706 |
| Zn 206.200 | 1.7830b | ppb | 2.1241 | 119.1 | 2.7151 |

**680-106149-b-1-aPDS (Samp)** **10/15/2014, 11:04:27 AM** **Rack 1, Tube 7**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 127.073 | 125.864 | 127.048 |
| Al 308.215 | 1583.07 | 1582.37 | 1587.94 |
| As 188.980 | 122.220 | 123.425 | 116.716 |
| B 249.678 | 1888.54 | 1883.78 | 1901.25 |
| Ba 389.178 | 91.5250 | 90.9713 | 92.0428 |
| Be 313.042 | 98.0932 | 97.0135 | 98.2449 |
| Ca 370.602 | 32303 | 31900 | 32265 |
| Cd 226.502 | 156.923 | 154.659 | 156.288 |
| Co 228.615 | 97.1728 | 95.2846 | 96.6411 |
| Cr 267.716 | 266.676 | 264.020 | 267.203 |
| Cu 324.754 | 159.349 | 158.673 | 159.298 |
| Fe 271.441 | 9849.80 | 9744.84 | 9851.69 |
| K 766.491 | 52721.3x | 52553.9x | 52704.8x |
| Mg 279.078 | 10204.8 | 10120.1 | 10204.7 |
| Mn 257.610 | 1016.03 | 1006.32 | 1015.95 |
| Mo 202.032 | 101.112 | 101.110 | 101.112 |
| Na 330.237 | 3547616x | 3542720x | 3555434x |
| Ni 231.604 | 152.605 | 150.580 | 150.215 |
| Pb 220.353 | 94.5416 | 90.1423 | 89.2605 |
| Sb 206.834 | 110.046 | 105.803 | 105.754 |
| Se 196.026 | 145.855 | 155.133 | 152.725 |
| Sn 189.925 | 95.8516 | 93.2131 | 95.3313 |
| Sr 216.596 | 180.417 | 178.609 | 179.640 |
| Ti 334.941 | 118.937 | 117.998 | 119.395 |
| Tl 190.794 | 14.2774 | 10.3663 | 17.9229 |
| V 292.401 | 104.999 | 103.882 | 104.768 |
| Zn 206.200 | 116.833 | 113.674 | 114.279 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 126.662b | ppb | 0.6911 | 0.5 | 9783.21 |
| Al 308.215 | 1584.46b | ppb | 3.0310 | 0.2 | 10910.9 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 120.787b | ppb | 3.5762 | 3.0 | 62.3262 |
| B 249.678 | 1891.19b | ppb | 9.0310 | 0.5 | 28613.0 |
| Ba 389.178 | 91.5130b | ppb | 0.5359 | 0.6 | 1823.68 |
| Be 313.042 | 97.7839b | ppb | 0.6715 | 0.7 | 158518 |
| Ca 370.602 | 32156b | ppb | 222.7 | 0.7 | 74313 |
| Cd 226.502 | 155.957b | ppb | 1.1676 | 0.7 | 5865.11 |
| Co 228.615 | 96.3662b | ppb | 0.9737 | 1.0 | 1007.82 |
| Cr 267.716 | 265.966b | ppb | 1.7062 | 0.6 | 13300.7 |
| Cu 324.754 | 159.107b | ppb | 0.3765 | 0.2 | 11415.6 |
| Fe 271.441 | 9815.44b | ppb | 61.1517 | 0.6 | 13841.2 |
| K 766.491 | 52660.0xb | ppb | 92.2483 | 0.2 | 2253024 |
| Mg 279.078 | 10176.5b | ppb | 48.8876 | 0.5 | 24723.7 |
| Mn 257.610 | 1012.77b | ppb | 5.5856 | 0.6 | 209558 |
| Mo 202.032 | 101.111b | ppb | 0.0014 | 0.0 | 631.466 |
| Na 330.237 | 3548590xb | ppb | 6412.32 | 0.2 | 169662 |
| Ni 231.604 | 151.134b | ppb | 1.2872 | 0.9 | 414.427 |
| Pb 220.353 | 91.3148b | ppb | 2.8290 | 3.1 | 130.209 |
| Sb 206.834 | 107.201b | ppb | 2.4641 | 2.3 | 143.993 |
| Se 196.026 | 151.237b | ppb | 4.8147 | 3.2 | 61.2376 |
| Sn 189.925 | 94.7987b | ppb | 1.3976 | 1.5 | 57.9508 |
| Sr 216.596 | 179.556b | ppb | 0.9069 | 0.5 | 1980.87 |
| Ti 334.941 | 118.777b | ppb | 0.7118 | 0.6 | 32641.3 |
| Tl 190.794 | 14.1889b | ppb | 3.7791 | 26.6 | 7.2916 |
| V 292.401 | 104.550b | ppb | 0.5895 | 0.6 | 2653.99 |
| Zn 206.200 | 114.929b | ppb | 1.6771 | 1.5 | 103.827 |

**680-106149-b-1-b ms (Samp)** **10/15/2014, 11:08:43 AM** **Rack 1, Tube 8**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 74.5696 | 76.0753 | 75.4482 |
| Al 308.215 | 5941.60 | 5990.64 | 5958.97 |
| As 188.980 | 123.317 | 126.438 | 127.387 |
| B 249.678 | 1780.59 | 1810.73 | 1810.02 |
| Ba 389.178 | 103.810 | 105.978 | 105.105 |
| Be 313.042 | 48.7512 | 49.9535 | 49.5683 |
| Ca 370.602 | 26106 | 26723 | 26438 |
| Cd 226.502 | 101.895 | 105.078 | 105.514 |
| Co 228.615 | 48.3315 | 48.8210 | 48.8811 |
| Cr 267.716 | 250.292 | 256.305 | 253.758 |
| Cu 324.754 | 152.321 | 151.959 | 151.835 |
| Fe 271.441 | 4938.62 | 5044.90 | 5003.32 |
| K 766.491 | 38243.5 | 38466.3 | 38333.7 |
| Mg 279.078 | 5534.48 | 5636.37 | 5596.14 |
| Mn 257.610 | 495.903 | 506.321 | 500.930 |
| Mo 202.032 | 97.3975 | 99.1496 | 99.1243 |
| Na 330.237 | 3380174x | 3373262x | 3343894x |
| Ni 231.604 | 143.093 | 148.787 | 148.720 |
| Pb 220.353 | 451.801 | 463.352 | 458.743 |
| Sb 206.834 | 56.9354 | 56.6203 | 56.2137 |
| Se 196.026 | 148.095 | 144.006 | 135.219 |
| Sn 189.925 | 174.925 | 177.887 | 184.921 |
| Sr 216.596 | 168.257 | 173.759 | 173.750 |
| Ti 334.941 | 114.209 | 116.160 | 115.238 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 25.8628 | 28.9054 | 26.9922 |
| V 292.401 | 101.796 | 103.723 | 102.384 |
| Zn 206.200 | 109.743 | 112.672 | 110.662 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 75.3644b | ppb | 0.7563 | 1.0 | 5814.56 |
| Al 308.215 | 5963.74b | ppb | 24.8650 | 0.4 | 39881.9 |
| As 188.980 | 125.714b | ppb | 2.1296 | 1.7 | 65.0325 |
| B 249.678 | 1800.45b | ppb | 17.2017 | 1.0 | 27250.3 |
| Ba 389.178 | 104.964b | ppb | 1.0906 | 1.0 | 2088.25 |
| Be 313.042 | 49.4243b | ppb | 0.6140 | 1.2 | 79807.0 |
| Ca 370.602 | 26422b | ppb | 308.4 | 1.2 | 61094 |
| Cd 226.502 | 104.162b | ppb | 1.9756 | 1.9 | 3910.47 |
| Co 228.615 | 48.6778b | ppb | 0.3015 | 0.6 | 510.678 |
| Cr 267.716 | 253.451b | ppb | 3.0183 | 1.2 | 12672.5 |
| Cu 324.754 | 152.039b | ppb | 0.2526 | 0.2 | 10917.8 |
| Fe 271.441 | 4995.61b | ppb | 53.5531 | 1.1 | 7048.46 |
| K 766.491 | 38347.8b | ppb | 112.088 | 0.3 | 1640775 |
| Mg 279.078 | 5589.00b | ppb | 51.3157 | 0.9 | 13586.2 |
| Mn 257.610 | 501.052b | ppb | 5.2100 | 1.0 | 103693 |
| Mo 202.032 | 98.5571b | ppb | 1.0044 | 1.0 | 615.867 |
| Na 330.237 | 3365777xb | ppb | 19263.7 | 0.6 | 160924 |
| Ni 231.604 | 146.867b | ppb | 3.2679 | 2.2 | 402.345 |
| Pb 220.353 | 457.965b | ppb | 5.8143 | 1.3 | 653.183 |
| Sb 206.834 | 56.5898b | ppb | 0.3619 | 0.6 | 77.0193 |
| Se 196.026 | 142.440b | ppb | 6.5794 | 4.6 | 57.7155 |
| Sn 189.925 | 179.245b | ppb | 5.1346 | 2.9 | 113.422 |
| Sr 216.596 | 171.922b | ppb | 3.1740 | 1.8 | 1890.52 |
| Ti 334.941 | 115.202b | ppb | 0.9763 | 0.8 | 31655.4 |
| Tl 190.794 | 27.2535b | ppb | 1.5380 | 5.6 | 20.2844 |
| V 292.401 | 102.634b | ppb | 0.9873 | 1.0 | 2604.73 |
| Zn 206.200 | 111.026b | ppb | 1.4978 | 1.3 | 100.522 |

**680-106149-b-1-c msd (Samp)** **10/15/2014, 11:13:01 AM** **Rack 1, Tube 9**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 75.9414 | 75.8289 | 75.1703 |
| Al 308.215 | 6074.82 | 6054.68 | 6040.35 |
| As 188.980 | 129.976 | 126.621 | 121.296 |
| B 249.678 | 1839.90 | 1844.68 | 1832.98 |
| Ba 389.178 | 105.969 | 107.071 | 106.448 |
| Be 313.042 | 50.1493 | 50.3329 | 49.8719 |
| Ca 370.602 | 26540 | 26653 | 26324 |
| Cd 226.502 | 105.022 | 105.982 | 104.226 |
| Co 228.615 | 48.7109 | 49.6111 | 48.6068 |
| Cr 267.716 | 254.168 | 255.752 | 252.906 |
| Cu 324.754 | 157.483 | 156.192 | 156.110 |
| Fe 271.441 | 5056.91 | 5071.23 | 5025.25 |
| K 766.491 | 40231.7 | 40262.5 | 40119.0 |
| Mg 279.078 | 5645.69 | 5653.02 | 5598.94 |
| Mn 257.610 | 503.611 | 506.060 | 500.400 |
| Mo 202.032 | 100.327 | 100.722 | 100.880 |
| Na 330.237 | 3396093x | 3419504x | 3404112x |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 148.223 | 149.774 | 147.027 |
| Pb 220.353 | 456.614 | 462.803 | 452.901 |
| Sb 206.834 | 57.3059 | 59.9946 | 55.3775 |
| Se 196.026 | 148.291 | 141.801 | 136.001 |
| Sn 189.925 | 182.191 | 183.105 | 181.661 |
| Sr 216.596 | 173.241 | 173.560 | 170.392 |
| Ti 334.941 | 116.503 | 116.775 | 115.974 |
| Tl 190.794 | 31.1049 | 30.8792 | 30.8369 |
| V 292.401 | 103.180 | 103.420 | 103.174 |
| Zn 206.200 | 109.840 | 115.748 | 108.648 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 75.6469b | ppb | 0.4165 | 0.6 | 5836.43 |
| Al 308.215 | 6056.62b | ppb | 17.3169 | 0.3 | 40496.8 |
| As 188.980 | 125.964b | ppb | 4.3771 | 3.5 | 65.1669 |
| B 249.678 | 1839.19b | ppb | 5.8840 | 0.3 | 27835.9 |
| Ba 389.178 | 106.496b | ppb | 0.5525 | 0.5 | 2119.42 |
| Be 313.042 | 50.1180b | ppb | 0.2321 | 0.5 | 80931.9 |
| Ca 370.602 | 26506b | ppb | 167.0 | 0.6 | 61287 |
| Cd 226.502 | 105.077b | ppb | 0.8794 | 0.8 | 3944.67 |
| Co 228.615 | 48.9763b | ppb | 0.5522 | 1.1 | 513.766 |
| Cr 267.716 | 254.275b | ppb | 1.4258 | 0.6 | 12714.1 |
| Cu 324.754 | 156.595b | ppb | 0.7700 | 0.5 | 11237.5 |
| Fe 271.441 | 5051.13b | ppb | 23.5275 | 0.5 | 7126.67 |
| K 766.491 | 40204.4b | ppb | 75.5443 | 0.2 | 1720196 |
| Mg 279.078 | 5632.55b | ppb | 29.3366 | 0.5 | 13691.9 |
| Mn 257.610 | 503.357b | ppb | 2.8389 | 0.6 | 104170 |
| Mo 202.032 | 100.643b | ppb | 0.2847 | 0.3 | 628.772 |
| Na 330.237 | 3406569xb | ppb | 11897.6 | 0.3 | 162874 |
| Ni 231.604 | 148.342b | ppb | 1.3773 | 0.9 | 406.435 |
| Pb 220.353 | 457.439b | ppb | 5.0023 | 1.1 | 652.426 |
| Sb 206.834 | 57.5593b | ppb | 2.3190 | 4.0 | 78.2766 |
| Se 196.026 | 142.031b | ppb | 6.1483 | 4.3 | 57.5589 |
| Sn 189.925 | 182.319b | ppb | 0.7301 | 0.4 | 115.455 |
| Sr 216.596 | 172.398b | ppb | 1.7441 | 1.0 | 1895.73 |
| Ti 334.941 | 116.417b | ppb | 0.4070 | 0.3 | 31989.5 |
| Tl 190.794 | 30.9404b | ppb | 0.1441 | 0.5 | 23.8778 |
| V 292.401 | 103.258b | ppb | 0.1401 | 0.1 | 2620.33 |
| Zn 206.200 | 111.412b | ppb | 3.8021 | 3.4 | 100.867 |

**680-106174-e-1-a (Samp)** **10/15/2014, 11:17:18 AM** **Rack 1, Tube 10**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2055u | 0.3436 | 0.1731 |
| Al 308.215 | 2063.34 | 2079.09 | 2074.83 |
| As 188.980 | 4.2076 | 3.4407 | 4.4440 |
| B 249.678 | 33.1997 | 30.3541 | 27.0358 |
| Ba 389.178 | 16.5045 | 16.8791 | 16.2271 |
| Be 313.042 | 0.2363 | 0.2408 | 0.2372 |
| Ca 370.602 | 4988 | 5031 | 5005 |
| Cd 226.502 | -0.2335 | -0.2816 | -0.1829 |
| Co 228.615 | 2.7157 | 3.7510 | 3.0317 |
| Cr 267.716 | 5.1512 | 5.3760 | 5.1724 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 4.0842 | 4.2445 | 3.9459 |
| Fe 271.441 | 9424.95 | 9461.85 | 9436.71 |
| K 766.491 | 1849.05 | 1845.68 | 1847.45 |
| Mg 279.078 | 7630.18 | 7675.13 | 7660.10 |
| Mn 257.610 | 349.342 | 351.193 | 350.480 |
| Mo 202.032 | 1.9911 | 1.3292 | 2.0087 |
| Na 330.237 | 3351.53 | 3332.97 | 3402.92 |
| Ni 231.604 | 2.7004 | 2.6679 | 4.3563 |
| Pb 220.353 | 2.1689 | 4.0720 | 2.6004 |
| Sb 206.834 | 0.3962 | 1.7497 | 0.1230 |
| Se 196.026 | 4.7033 | 5.2631 | 13.9881 |
| Sn 189.925 | 3.2649 | 0.8109 | 2.2802 |
| Sr 216.596 | 30.3821 | 30.5865 | 30.8097 |
| Ti 334.941 | 98.6590 | 99.4159 | 99.1350 |
| Tl 190.794 | -1.4449u | -0.8051u | 3.5843 |
| V 292.401 | 5.8667 | 6.2030 | 6.1887 |
| Zn 206.200 | 9.7571 | 8.4187 | 8.8385 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.1038 | ppb | 0.2811 | 270.9 | -3.3159 |
| Al 308.215 | 2072.42 | ppb | 8.1453 | 0.4 | 14124.6 |
| As 188.980 | 4.0308 | ppb | 0.5245 | 13.0 | -0.2821 |
| B 249.678 | 30.1965 | ppb | 3.0850 | 10.2 | 472.305 |
| Ba 389.178 | 16.5369 | ppb | 0.3272 | 2.0 | 299.042 |
| Be 313.042 | 0.2381 | ppb | 0.0024 | 1.0 | 71.3081 |
| Ca 370.602 | 5008 | ppb | 21.56 | 0.4 | 11538 |
| Cd 226.502 | -0.2327 | ppb | 0.0494 | 21.2 | 38.2731 |
| Co 228.615 | 3.1662 | ppb | 0.5306 | 16.8 | 38.5875 |
| Cr 267.716 | 5.2332 | ppb | 0.1241 | 2.4 | 296.728 |
| Cu 324.754 | 4.0915 | ppb | 0.1495 | 3.7 | 540.740 |
| Fe 271.441 | 9441.17 | ppb | 18.8453 | 0.2 | 13302.8 |
| K 766.491 | 1847.39 | ppb | 1.6830 | 0.1 | 79353.1 |
| Mg 279.078 | 7655.13 | ppb | 22.8809 | 0.3 | 18610.0 |
| Mn 257.610 | 350.339 | ppb | 0.9336 | 0.3 | 72570.6 |
| Mo 202.032 | 1.7763 | ppb | 0.3873 | 21.8 | 16.8597 |
| Na 330.237 | 3362.47 | ppb | 36.2399 | 1.1 | 180.172 |
| Ni 231.604 | 3.2415 | ppb | 0.9656 | 29.8 | 4.9164 |
| Pb 220.353 | 2.9471 | ppb | 0.9978 | 33.9 | 4.0627 |
| Sb 206.834 | 0.7563 | ppb | 0.8711 | 115.2 | 2.4327 |
| Se 196.026 | 7.9848 | ppb | 5.2065 | 65.2 | 5.9531 |
| Sn 189.925 | 2.1187 | ppb | 1.2349 | 58.3 | -3.9789 |
| Sr 216.596 | 30.5928 | ppb | 0.2139 | 0.7 | 348.416 |
| Ti 334.941 | 99.0700 | ppb | 0.3826 | 0.4 | 27442.0 |
| Tl 190.794 | 0.4448 | ppb | 2.7377 | 615.5 | -6.4888 |
| V 292.401 | 6.0861 | ppb | 0.1902 | 3.1 | 155.050 |
| Zn 206.200 | 9.0048 | ppb | 0.6845 | 7.6 | 8.9566 |

**680-106174-e-2-a (Samp)** **10/15/2014, 11:21:35 AM** **Rack 1, Tube 11**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0544u | 0.0190 | 0.1372 |
| Al 308.215 | 1320.76 | 1320.85 | 1311.95 |
| As 188.980 | 2.0249 | 1.8693 | 3.2865 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 18.2624 | 17.5467 | 17.0225 |
| Ba 389.178 | 46.5377 | 45.0812 | 45.2005 |
| Be 313.042 | 0.0699 | 0.0654 | 0.0646 |
| Ca 370.602 | 664.3 | 661.5 | 654.5 |
| Cd 226.502 | -0.0552 | -0.1145 | 0.1322 |
| Co 228.615 | -0.0818u | -0.4463u | -0.1745u |
| Cr 267.716 | 2.0336 | 1.9712 | 1.9569 |
| Cu 324.754 | 6.8830 | 6.8184 | 6.9718 |
| Fe 271.441 | 1673.78 | 1692.35 | 1662.86 |
| K 766.491 | 928.470 | 929.069 | 939.262 |
| Mg 279.078 | 324.085 | 324.973 | 321.091 |
| Mn 257.610 | 8.0994 | 8.0848 | 7.9977 |
| Mo 202.032 | 0.1089 | 0.2796 | 0.4869 |
| Na 330.237 | 698.877 | 672.206 | 565.399 |
| Ni 231.604 | 3.0553 | 0.6426 | 0.2700 |
| Pb 220.353 | 0.1149 | 2.0012 | 0.9559 |
| Sb 206.834 | 0.4280 | 2.3879 | -0.3636u |
| Se 196.026 | 15.7881 | 12.4217 | 3.3396 |
| Sn 189.925 | 0.6087 | 2.0225 | 1.6289 |
| Sr 216.596 | 5.9308 | 6.1313 | 5.9040 |
| Ti 334.941 | 24.0306 | 24.5784 | 24.1816 |
| Tl 190.794 | -3.0794u | -0.8863u | -3.3103u |
| V 292.401 | 7.0172 | 7.2438 | 7.1065 |
| Zn 206.200 | 7.8127 | 4.9085 | 8.5930 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0339 | ppb | 0.0967 | 285.1 | -8.2274 |
| Al 308.215 | 1317.85 | ppb | 5.1130 | 0.4 | 9118.53 |
| As 188.980 | 2.3936 | ppb | 0.7772 | 32.5 | -1.1256 |
| B 249.678 | 17.6105 | ppb | 0.6224 | 3.5 | 298.272 |
| Ba 389.178 | 45.6065 | ppb | 0.8087 | 1.8 | 875.439 |
| Be 313.042 | 0.0666 | ppb | 0.0028 | 4.3 | -208.162 |
| Ca 370.602 | 660.1 | ppb | 5.008 | 0.8 | 1530 |
| Cd 226.502 | -0.0125 | ppb | 0.1288 | 1030.4 | 18.7157 |
| Co 228.615 | -0.2342 | ppb | 0.1894 | 80.9 | 1.2806 |
| Cr 267.716 | 1.9872 | ppb | 0.0408 | 2.1 | 130.513 |
| Cu 324.754 | 6.8911 | ppb | 0.0770 | 1.1 | 733.807 |
| Fe 271.441 | 1676.33 | ppb | 14.9122 | 0.9 | 2367.57 |
| K 766.491 | 932.267 | ppb | 6.0654 | 0.7 | 40205.8 |
| Mg 279.078 | 323.383 | ppb | 2.0340 | 0.6 | 803.997 |
| Mn 257.610 | 8.0607 | ppb | 0.0550 | 0.7 | 1714.71 |
| Mo 202.032 | 0.2918 | ppb | 0.1893 | 64.9 | 8.0028 |
| Na 330.237 | 645.494 | ppb | 70.6345 | 10.9 | 52.2858 |
| Ni 231.604 | 1.3226 | ppb | 1.5121 | 114.3 | -0.9843 |
| Pb 220.353 | 1.0240 | ppb | 0.9450 | 92.3 | 1.7699 |
| Sb 206.834 | 0.8175 | ppb | 1.4165 | 173.3 | 2.2705 |
| Se 196.026 | 10.5164 | ppb | 6.4392 | 61.2 | 6.8033 |
| Sn 189.925 | 1.4200 | ppb | 0.7297 | 51.4 | -4.4390 |
| Sr 216.596 | 5.9887 | ppb | 0.1242 | 2.1 | 69.8111 |
| Ti 334.941 | 24.2635 | ppb | 0.2830 | 1.2 | 6671.55 |
| Tl 190.794 | -2.4253 | ppb | 1.3379 | 55.2 | -8.5205 |
| V 292.401 | 7.1225 | ppb | 0.1142 | 1.6 | 178.341 |
| Zn 206.200 | 7.1048 | ppb | 1.9416 | 27.3 | 7.5472 |

**680-106174-d-3-a (Samp)** **10/15/2014, 11:25:53 AM** **Rack 1, Tube 12**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1076 | 0.0855 | -0.1048u |
| Al 308.215 | 964.375 | 956.435 | 961.078 |
| As 188.980 | 4.4438 | 7.8935 | 4.6195 |
| B 249.678 | 13.8705 | 13.7073 | 12.9355 |
| Ba 389.178 | 26.4198 | 26.9861 | 26.7188 |
| Be 313.042 | 0.1006 | 0.1020 | 0.1015 |
| Ca 370.602 | 555.7 | 549.4 | 549.1 |
| Cd 226.502 | -0.0356u | -0.0364u | 0.0034 |
| Co 228.615 | 1.6530 | 0.4702 | 0.7412 |
| Cr 267.716 | 1.4279 | 1.4385 | 1.4688 |
| Cu 324.754 | 2.6952 | 2.6508 | 2.6687 |
| Fe 271.441 | 275.449 | 276.828 | 278.450 |
| K 766.491 | 726.696 | 722.855 | 729.277 |
| Mg 279.078 | 405.767 | 405.801 | 404.008 |
| Mn 257.610 | 8.9110 | 8.8396 | 8.8460 |
| Mo 202.032 | 0.3648 | 0.3892 | -0.1183u |
| Na 330.237 | 1250.65 | 1152.34 | 1104.29 |
| Ni 231.604 | 0.5753 | 1.2234 | 1.1996 |
| Pb 220.353 | -0.4226u | -0.0192u | 1.5594 |
| Sb 206.834 | 1.4903 | 2.1055 | 2.9157 |
| Se 196.026 | 4.7613 | 6.7959 | 8.6100 |
| Sn 189.925 | 0.1293 | 1.8608 | 0.1429 |
| Sr 216.596 | 6.1822 | 5.7408 | 5.4776 |
| Ti 334.941 | 18.0780 | 16.8912 | 18.8411 |
| Tl 190.794 | 1.3037 | 0.7013 | 1.5984 |
| V 292.401 | 2.8752 | 3.2309 | 2.9550 |
| Zn 206.200 | 3.0097 | 4.2434 | 4.0837 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0294 | ppb | 0.1167 | 396.7 | -8.3585 |
| Al 308.215 | 960.629 | ppb | 3.9890 | 0.4 | 6751.92 |
| As 188.980 | 5.6523 | ppb | 1.9430 | 34.4 | 0.6270 |
| B 249.678 | 13.5044 | ppb | 0.4994 | 3.7 | 239.121 |
| Ba 389.178 | 26.7082 | ppb | 0.2833 | 1.1 | 491.554 |
| Be 313.042 | 0.1014 | ppb | 0.0007 | 0.7 | -151.862 |
| Ca 370.602 | 551.4 | ppb | 3.740 | 0.7 | 1290 |
| Cd 226.502 | -0.0229 | ppb | 0.0228 | 99.5 | 13.3469 |
| Co 228.615 | 0.9548 | ppb | 0.6196 | 64.9 | 13.4571 |
| Cr 267.716 | 1.4451 | ppb | 0.0212 | 1.5 | 103.037 |
| Cu 324.754 | 2.6716 | ppb | 0.0223 | 0.8 | 437.350 |
| Fe 271.441 | 276.909 | ppb | 1.5023 | 0.5 | 396.916 |
| K 766.491 | 726.276 | ppb | 3.2314 | 0.4 | 31393.8 |
| Mg 279.078 | 405.192 | ppb | 1.0256 | 0.3 | 1002.86 |
| Mn 257.610 | 8.8655 | ppb | 0.0395 | 0.4 | 1877.76 |
| Mo 202.032 | 0.2119 | ppb | 0.2863 | 135.1 | 7.5720 |
| Na 330.237 | 1169.09 | ppb | 74.6023 | 6.4 | 77.7421 |
| Ni 231.604 | 0.9994 | ppb | 0.3675 | 36.8 | -1.9886 |
| Pb 220.353 | 0.3726 | ppb | 1.0475 | 281.2 | 0.9319 |
| Sb 206.834 | 2.1705 | ppb | 0.7149 | 32.9 | 4.0058 |
| Se 196.026 | 6.7224 | ppb | 1.9254 | 28.6 | 5.3321 |
| Sn 189.925 | 0.7110 | ppb | 0.9958 | 140.1 | -4.9050 |
| Sr 216.596 | 5.8002 | ppb | 0.3561 | 6.1 | 66.2154 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 17.9368 | ppb | 0.9826 | 5.5 | 4915.91 |
| Tl 190.794 | 1.2011 | ppb | 0.4573 | 38.1 | -4.8106 |
| V 292.401 | 3.0204 | ppb | 0.1867 | 6.2 | 71.4522 |
| Zn 206.200 | 3.7790 | ppb | 0.6710 | 17.8 | 4.6015 |

**Cont Calib Verif (CCV)** **10/15/2014, 11:30:09 AM** **Rack 1, Tube 13**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 486.246 | 489.821 | 487.724 |
| Al 308.215 | 4801.66 | 4796.77 | 4796.88 |
| As 188.980 | 452.715 | 451.159 | 448.412 |
| B 249.678 | 479.792 | 482.315 | 483.207 |
| Ba 389.178 | 4853.52 | 4851.74 | 4844.74 |
| Be 313.042 | 486.530 | 485.764 | 484.590 |
| Ca 370.602 | 4869 | 4893 | 4886 |
| Cd 226.502 | 488.958 | 488.738 | 487.958 |
| Co 228.615 | 492.969 | 493.606 | 494.621 |
| Cr 267.716 | 4860.34 | 4865.22 | 4865.34 |
| Cu 324.754 | 4956.10 | 4991.50 | 4937.80 |
| Fe 271.441 | 4878.14 | 4890.41 | 4876.45 |
| K 766.491 | 9972.52 | 9994.12 | 9979.43 |
| Mg 279.078 | 4845.24 | 4836.85 | 4841.60 |
| Mn 257.610 | 4981.04 | 4971.89 | 4982.79 |
| Mo 202.032 | 487.082 | 487.161 | 491.160 |
| Na 330.237 | 7583.35 | 7508.12 | 7465.33 |
| Ni 231.604 | 2472.03 | 2476.37 | 2474.35 |
| Pb 220.353 | 490.359 | 498.829 | 494.898 |
| Sb 206.834 | 915.302 | 923.274 | 919.963 |
| Se 196.026 | 4810.48 | 4820.22 | 4817.28 |
| Sn 189.925 | 4901.76 | 4894.27 | 4918.42 |
| Sr 216.596 | 2432.67 | 2431.10 | 2425.70 |
| Ti 334.941 | 483.525 | 483.402 | 482.755 |
| Tl 190.794 | 4949.91 | 4957.69 | 4943.56 |
| V 292.401 | 4843.74 | 4857.77 | 4842.55 |
| Zn 206.200 | 2440.46 | 2442.26 | 2432.46 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 487.930 | ppb | 1.7964 | 0.4 | 37684.1 | 97.58608 |
| Al 308.215 | 4798.44 | ppb | 2.7917 | 0.1 | 32654.2 | 95.96871 |
| As 188.980 | 450.762 | ppb | 2.1788 | 0.5 | 239.316 | 90.15244 |
| B 249.678 | 481.772 | ppb | 1.7712 | 0.4 | 7322.44 | 96.35432 |
| Ba 389.178 | 4850.00 | ppb | 4.6436 | 0.1 | 98334.0 | 97.00003 |
| Be 313.042 | 485.628 | ppb | 0.9769 | 0.2 | 790445 | 97.12560 |
| Ca 370.602 | 4883 | ppb | 12.50 | 0.3 | 11559 | 97.65680 |
| Cd 226.502 | 488.552 | ppb | 0.5256 | 0.1 | 18314.4 | 97.71030 |
| Co 228.615 | 493.732 | ppb | 0.8329 | 0.2 | 5150.58 | 98.74635 |
| Cr 267.716 | 4863.63 | ppb | 2.8509 | 0.1 | 241348 | 97.27267 |
| Cu 324.754 | 4961.80 | ppb | 27.3013 | 0.6 | 348206 | 99.23597 |
| Fe 271.441 | 4881.66 | ppb | 7.6173 | 0.2 | 6978.84 | 97.63329 |
| K 766.491 | 9982.03 | ppb | 11.0320 | 0.1 | 427338 | 99.82027 |
| Mg 279.078 | 4841.23 | ppb | 4.2084 | 0.1 | 11687.4 | 96.82455 |
| Mn 257.610 | 4978.57 | ppb | 5.8508 | 0.1 | 1029618 | 99.57144 |
| Mo 202.032 | 488.467 | ppb | 2.3320 | 0.5 | 3024.07 | 97.69348 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Na 330.237 | 7518.93 | ppb | 59.7469 | 0.8 | 319.392 | 100.25246 |
| Ni 231.604 | 2474.25 | ppb | 2.1741 | 0.1 | 6848.60 | 98.97005 |
| Pb 220.353 | 494.695 | ppb | 4.2384 | 0.9 | 709.033 | 98.93908 |
| Sb 206.834 | 919.513 | ppb | 4.0049 | 0.4 | 1258.14 | 91.95131 |
| Se 196.026 | 4815.99 | ppb | 4.9964 | 0.1 | 1857.96 | 96.31985 |
| Sn 189.925 | 4904.82 | ppb | 12.3585 | 0.3 | 3219.47 | 98.09634 |
| Sr 216.596 | 2429.82 | ppb | 3.6571 | 0.2 | 26490.9 | 97.19280 |
| Ti 334.941 | 483.227 | ppb | 0.4138 | 0.1 | 134033 | 96.64544 |
| Tl 190.794 | 4950.39 | ppb | 7.0791 | 0.1 | 4841.92 | 99.00772 |
| V 292.401 | 4848.02 | ppb | 8.4668 | 0.2 | 125367 | 96.96045 |
| Zn 206.200 | 2438.40 | ppb | 5.2185 | 0.2 | 2188.34 | 97.53584 |

**Cont Calib Blank (CCB)** **10/15/2014, 11:34:23 AM** **Rack 1, Tube 14**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0404u | -0.1679u | 0.1779 |
| Al 308.215 | 7.7369 | 10.4113 | 7.4750 |
| As 188.980 | 6.2770 | 7.8550 | 1.7310 |
| B 249.678 | 11.5929 | 10.5301 | 9.1130 |
| Ba 389.178 | 0.9524 | 0.6494 | 0.6854 |
| Be 313.042 | 0.0640 | 0.0722 | 0.0597 |
| Ca 370.602 | 1.333 | 4.423 | 4.750 |
| Cd 226.502 | -0.1568u | -0.0398u | 0.0536 |
| Co 228.615 | 0.4880 | 0.1511 | 0.0610 |
| Cr 267.716 | 0.6504 | 0.7198 | 0.6965 |
| Cu 324.754 | 0.4512 | 0.5570 | 0.3940 |
| Fe 271.441 | 2.2295 | 1.4059 | 7.3495 |
| K 766.491 | 0.0471 | 0.5212 | -0.0779u |
| Mg 279.078 | 1.3380 | 1.5481 | 1.5517 |
| Mn 257.610 | 0.7060 | 0.7267 | 0.6809 |
| Mo 202.032 | 1.2735 | 0.9508 | 0.7602 |
| Na 330.237 | 46.5469 | 30.1759 | 17.2848 |
| Ni 231.604 | 1.0127 | 0.5354 | -0.0481u |
| Pb 220.353 | 2.7999 | 0.7452 | 1.5626 |
| Sb 206.834 | 4.7921 | 2.8665 | 3.2228 |
| Se 196.026 | 3.7005 | 8.1878 | -2.8146u |
| Sn 189.925 | 0.9838 | 1.4375 | 4.1220 |
| Sr 216.596 | 0.2608 | 0.5683 | 0.4301 |
| Ti 334.941 | 0.2067 | 0.2260 | 0.1664 |
| Tl 190.794 | 0.7766 | -0.3665u | 0.9609 |
| V 292.401 | 0.6682 | 0.7787 | 0.8046 |
| Zn 206.200 | 1.0703 | -0.1026u | 0.9326 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | -0.0101 | ppb | 0.1749 | 1726.7 | -11.2448 | -0.01013 |
| Al 308.215 | 8.5411 | ppb | 1.6249 | 19.0 | 451.021 | 8.54106 |
| As 188.980 | 5.2877 | ppb | 3.1796 | 60.1 | 0.4246 | 5.28767 |
| B 249.678 | 10.4120 | ppb | 1.2442 | 11.9 | 192.960 | 10.41200 |
| Ba 389.178 | 0.7624 | ppb | 0.1655 | 21.7 | -35.3130 | 0.76238 |
| Be 313.042 | 0.0653 | ppb | 0.0064 | 9.7 | -210.824 | 0.06531 |
| Ca 370.602 | 3.502 | ppb | 1.885 | 53.8 | 19.28 | 3.50190 |
| Cd 226.502 | -0.0476 | ppb | 0.1054 | 221.3 | 11.4311 | -0.04764 |
| Co 228.615 | 0.2334 | ppb | 0.2251 | 96.4 | 5.5616 | 0.23336 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Cr 267.716 | 0.6889 | ppb | 0.0354 | 5.1 | 65.3135 | 0.68890 |
| Cu 324.754 | 0.4674 | ppb | 0.0827 | 17.7 | 282.702 | 0.46739 |
| Fe 271.441 | 3.6616 | ppb | 3.2202 | 87.9 | 12.0140 | 3.66163 |
| K 766.491 | 0.1635 | ppb | 0.3161 | 193.3 | 332.077 | 0.16350 |
| Mg 279.078 | 1.4792 | ppb | 0.1224 | 8.3 | 22.5099 | 1.47924 |
| Mn 257.610 | 0.7046 | ppb | 0.0230 | 3.3 | 186.408 | 0.70456 |
| Mo 202.032 | 0.9948 | ppb | 0.2595 | 26.1 | 12.4310 | 0.99483 |
| Na 330.237 | 31.3359 | ppb | 14.6655 | 46.8 | 23.5253 | 31.33586 |
| Ni 231.604 | 0.5000 | ppb | 0.5313 | 106.3 | -3.3918 | 0.50003 |
| Pb 220.353 | 1.7026 | ppb | 1.0345 | 60.8 | 2.8626 | 1.70260 |
| Sb 206.834 | 3.6272 | ppb | 1.0245 | 28.2 | 5.8964 | 3.62715 |
| Se 196.026 | 3.0246 | ppb | 5.5323 | 182.9 | 3.9047 | 3.02457 |
| Sn 189.925 | 2.1811 | ppb | 1.6961 | 77.8 | -3.9388 | 2.18109 |
| Sr 216.596 | 0.4197 | ppb | 0.1540 | 36.7 | 6.9597 | 0.41974 |
| Ti 334.941 | 0.1997 | ppb | 0.0304 | 15.2 | -6.4647 | 0.19969 |
| Tl 190.794 | 0.4570 | ppb | 0.7191 | 157.4 | -5.5163 | 0.45698 |
| V 292.401 | 0.7505 | ppb | 0.0725 | 9.7 | 12.1771 | 0.75053 |
| Zn 206.200 | 0.6334 | ppb | 0.6411 | 101.2 | 1.7762 | 0.63339 |

**680-106174-e-4-a (Samp)** **10/15/2014, 11:38:38 AM** **Rack 1, Tube 15**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1197u | 0.0690 | -0.1905u |
| Al 308.215 | 413.848 | 415.195 | 417.252 |
| As 188.980 | 2.9241 | 0.3711 | 4.5212 |
| B 249.678 | 12.9395 | 12.8807 | 11.6433 |
| Ba 389.178 | 17.3404 | 17.5491 | 17.3243 |
| Be 313.042 | 0.0913 | 0.0931 | 0.0883 |
| Ca 370.602 | 550.0 | 550.7 | 559.0 |
| Cd 226.502 | -0.1228u | -0.0459u | -0.1640u |
| Co 228.615 | 0.8440 | 0.8673 | 0.3763 |
| Cr 267.716 | 0.7572 | 0.7406 | 0.6364 |
| Cu 324.754 | 2.4100 | 2.1395 | 2.1892 |
| Fe 271.441 | 115.477 | 113.673 | 112.030 |
| K 766.491 | 703.796 | 699.194 | 701.251 |
| Mg 279.078 | 399.575 | 395.850 | 400.595 |
| Mn 257.610 | 7.0054 | 6.9915 | 7.1056 |
| Mo 202.032 | 0.2962 | 0.4726 | 0.5970 |
| Na 330.237 | 1343.43 | 1278.68 | 1363.18 |
| Ni 231.604 | 0.2365 | 2.3530 | 1.7291 |
| Pb 220.353 | -0.8914u | -0.7831u | 2.0473 |
| Sb 206.834 | 3.7337 | 1.1011 | 2.4603 |
| Se 196.026 | 3.7654 | 4.2488 | 5.4404 |
| Sn 189.925 | 2.3697 | -0.9751u | 3.2167 |
| Sr 216.596 | 5.5881 | 5.8702 | 5.3797 |
| Ti 334.941 | 6.6938 | 7.1522 | 6.1441 |
| Tl 190.794 | 1.1078 | 1.1722 | -0.0297u |
| V 292.401 | 1.1917 | 1.4178 | 1.6280 |
| Zn 206.200 | 2.5053 | 1.3209 | 3.3261 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0804 | ppb | 0.1341 | 166.9 | -16.8390 |
| Al 308.215 | 415.432 | ppb | 1.7145 | 0.4 | 3143.75 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 2.6054 | ppb | 2.0933 | 80.3 | -1.0113 |
| B 249.678 | 12.4878 | ppb | 0.7320 | 5.9 | 224.096 |
| Ba 389.178 | 17.4046 | ppb | 0.1254 | 0.7 | 302.772 |
| Be 313.042 | 0.0909 | ppb | 0.0024 | 2.6 | -168.958 |
| Ca 370.602 | 553.2 | ppb | 5.006 | 0.9 | 1291 |
| Cd 226.502 | -0.1109 | ppb | 0.0599 | 54.0 | 9.4598 |
| Co 228.615 | 0.6959 | ppb | 0.2770 | 39.8 | 10.5304 |
| Cr 267.716 | 0.7114 | ppb | 0.0655 | 9.2 | 66.5419 |
| Cu 324.754 | 2.2463 | ppb | 0.1440 | 6.4 | 407.474 |
| Fe 271.441 | 113.727 | ppb | 1.7237 | 1.5 | 167.090 |
| K 766.491 | 701.414 | ppb | 2.3054 | 0.3 | 30330.3 |
| Mg 279.078 | 398.674 | ppb | 2.4982 | 0.6 | 987.241 |
| Mn 257.610 | 7.0342 | ppb | 0.0623 | 0.9 | 1498.54 |
| Mo 202.032 | 0.4553 | ppb | 0.1512 | 33.2 | 9.0867 |
| Na 330.237 | 1328.43 | ppb | 44.1993 | 3.3 | 85.4335 |
| Ni 231.604 | 1.4395 | ppb | 1.0876 | 75.6 | -0.7820 |
| Pb 220.353 | 0.1243 | ppb | 1.6663 | 1340.7 | 0.5990 |
| Sb 206.834 | 2.4317 | ppb | 1.3165 | 54.1 | 4.3367 |
| Se 196.026 | 4.4849 | ppb | 0.8621 | 19.2 | 4.4690 |
| Sn 189.925 | 1.5371 | ppb | 2.2164 | 144.2 | -4.3618 |
| Sr 216.596 | 5.6127 | ppb | 0.2462 | 4.4 | 63.9952 |
| Ti 334.941 | 6.6634 | ppb | 0.5047 | 7.6 | 1787.69 |
| Tl 190.794 | 0.7501 | ppb | 0.6761 | 90.1 | -5.2353 |
| V 292.401 | 1.4125 | ppb | 0.2182 | 15.4 | 29.5736 |
| Zn 206.200 | 2.3841 | ppb | 1.0081 | 42.3 | 3.3512 |

**680-106174-e-5-a (Samp)** **10/15/2014, 11:42:53 AM** **Rack 1, Tube 16**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0136 | 0.1459 | 0.0207 |
| Al 308.215 | 10.4741 | 8.7887 | 10.7228 |
| As 188.980 | 5.6370 | 5.1036 | 4.1244 |
| B 249.678 | 3.9039 | 3.8232 | 3.8682 |
| Ba 389.178 | 0.1069 | -0.1756u | -1.1366u |
| Be 313.042 | 0.0194 | 0.0177 | 0.0161 |
| Ca 370.602 | 52.04 | 50.38 | 50.44 |
| Cd 226.502 | 0.1371 | 0.0807 | -0.0017u |
| Co 228.615 | -0.0140u | 0.1746 | -0.1788u |
| Cr 267.716 | 0.1483 | 0.5110 | 0.4523 |
| Cu 324.754 | -0.2512u | -0.1636u | 0.0407 |
| Fe 271.441 | 3.8536 | 2.4651 | 7.4959 |
| K 766.491 | 0.5095 | 0.3979 | 0.2126 |
| Mg 279.078 | 4.3832 | 4.3139 | 0.1010 |
| Mn 257.610 | 0.1011 | 0.1245 | 0.1223 |
| Mo 202.032 | -0.0144u | 0.0998 | 0.1258 |
| Na 330.237 | 264.853 | 90.0207 | 160.382 |
| Ni 231.604 | 0.0064 | 0.1570 | -0.3814u |
| Pb 220.353 | 0.4609 | 0.7421 | 2.0786 |
| Sb 206.834 | 0.2890 | -0.5139u | 3.7175 |
| Se 196.026 | 7.1055 | 0.4167 | 0.8355 |
| Sn 189.925 | 1.2114 | -0.1807u | -0.7195u |
| Sr 216.596 | 0.1572 | 0.7147 | 0.1901 |
| Ti 334.941 | 0.1363 | 0.1346 | 0.1588 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -4.1617u | 1.1301 | 1.2795 |
| V 292.401 | 0.0039 | 0.0815 | -0.0681u |
| Zn 206.200 | 2.2545 | 2.8231 | 1.6574 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0601 | ppb | 0.0744 | 123.9 | -5.8232 |
| Al 308.215 | 9.9952 | ppb | 1.0522 | 10.5 | 460.517 |
| As 188.980 | 4.9550 | ppb | 0.7672 | 15.5 | 0.2463 |
| B 249.678 | 3.8651 | ppb | 0.0405 | 1.0 | 93.9210 |
| Ba 389.178 | -0.4017 | ppb | 0.6519 | 162.3 | -58.9231 |
| Be 313.042 | 0.0177 | ppb | 0.0016 | 9.3 | -288.224 |
| Ca 370.602 | 50.95 | ppb | 0.9397 | 1.8 | 128.9 |
| Cd 226.502 | 0.0720 | ppb | 0.0698 | 96.9 | 15.9353 |
| Co 228.615 | -0.0061 | ppb | 0.1768 | 2916.6 | 3.0928 |
| Cr 267.716 | 0.3706 | ppb | 0.1947 | 52.5 | 49.5258 |
| Cu 324.754 | -0.1247 | ppb | 0.1498 | 120.1 | 241.152 |
| Fe 271.441 | 4.6049 | ppb | 2.5982 | 56.4 | 13.3264 |
| K 766.491 | 0.3733 | ppb | 0.1500 | 40.2 | 341.053 |
| Mg 279.078 | 2.9327 | ppb | 2.4526 | 83.6 | 26.0516 |
| Mn 257.610 | 0.1160 | ppb | 0.0129 | 11.1 | 64.7230 |
| Mo 202.032 | 0.0704 | ppb | 0.0745 | 105.9 | 6.7107 |
| Na 330.237 | 171.752 | ppb | 87.9691 | 51.2 | 30.1912 |
| Ni 231.604 | -0.0727 | ppb | 0.2778 | 382.4 | -4.9775 |
| Pb 220.353 | 1.0939 | ppb | 0.8643 | 79.0 | 1.9950 |
| Sb 206.834 | 1.1642 | ppb | 2.2474 | 193.0 | 2.6629 |
| Se 196.026 | 2.7859 | ppb | 3.7467 | 134.5 | 3.8128 |
| Sn 189.925 | 0.1037 | ppb | 0.9964 | 960.4 | -5.3046 |
| Sr 216.596 | 0.3540 | ppb | 0.3128 | 88.4 | 6.2797 |
| Ti 334.941 | 0.1432 | ppb | 0.0135 | 9.4 | -22.1313 |
| Tl 190.794 | -0.5841 | ppb | 3.0993 | 530.6 | -6.5336 |
| V 292.401 | 0.0058 | ppb | 0.0748 | 1297.4 | -6.9553 |
| Zn 206.200 | 2.2450 | ppb | 0.5829 | 26.0 | 3.2307 |

**680-106174-e-6-a (Samp)** **10/15/2014, 11:47:09 AM** **Rack 1, Tube 17**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0960u | -0.3025u | -0.1781u |
| Al 308.215 | 20.4883 | 19.1872 | 19.2131 |
| As 188.980 | 2.0451 | 7.4087 | 5.1886 |
| B 249.678 | 8.5725 | 7.7311 | 7.8646 |
| Ba 389.178 | 43.7509 | 44.0933 | 44.1644 |
| Be 313.042 | 0.0155 | 0.0176 | 0.0137 |
| Ca 370.602 | 16770 | 16689 | 16626 |
| Cd 226.502 | -0.0003 | 0.0235 | -0.1580u |
| Co 228.615 | -0.3811u | -0.2137u | -0.4968u |
| Cr 267.716 | 0.3528 | 0.4249 | 0.2263 |
| Cu 324.754 | -0.1232u | -0.0919u | -0.3591u |
| Fe 271.441 | 129.815 | 140.604 | 136.731 |
| K 766.491 | 917.845 | 918.356 | 917.786 |
| Mg 279.078 | 2110.41 | 2109.16 | 2115.93 |
| Mn 257.610 | 375.413 | 375.504 | 374.905 |
| Mo 202.032 | 0.8292 | 0.0764 | 0.7966 |
| Na 330.237 | 6741.56 | 6676.26 | 6615.91 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 0.2883 | 0.4616 | 0.0080 |
| Pb 220.353 | 2.2411 | 2.0090 | 2.5833 |
| Sb 206.834 | 3.5515 | 3.1753 | 3.9635 |
| Se 196.026 | 3.9136 | 4.0145 | 5.1913 |
| Sn 189.925 | 4.5057 | -3.4443u | -0.5177u |
| Sr 216.596 | 838.505 | 837.521 | 839.011 |
| Ti 334.941 | 0.2062 | 0.1784 | 0.1496 |
| Tl 190.794 | 0.4746 | -1.8582u | -1.5370u |
| V 292.401 | 0.0369 | 0.0773 | -0.1907u |
| Zn 206.200 | 4.0554 | 2.0738 | 1.5410 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1282 | ppb | 0.2039 | 159.0 | -44.7373 |
| Al 308.215 | 19.6295 | ppb | 0.7439 | 3.8 | 524.522 |
| As 188.980 | 4.8808 | ppb | 2.6950 | 55.2 | 0.2058 |
| B 249.678 | 8.0561 | ppb | 0.4522 | 5.6 | 157.057 |
| Ba 389.178 | 44.0029 | ppb | 0.2211 | 0.5 | 844.399 |
| Be 313.042 | 0.0156 | ppb | 0.0019 | 12.4 | -287.413 |
| Ca 370.602 | 16695 | ppb | 71.92 | 0.4 | 38611 |
| Cd 226.502 | -0.0449 | ppb | 0.0986 | 219.5 | 11.9947 |
| Co 228.615 | -0.3639 | ppb | 0.1423 | 39.1 | -0.6394 |
| Cr 267.716 | 0.3347 | ppb | 0.1005 | 30.0 | 49.5914 |
| Cu 324.754 | -0.1914 | ppb | 0.1461 | 76.3 | 236.544 |
| Fe 271.441 | 135.716 | ppb | 5.4657 | 4.0 | 197.914 |
| K 766.491 | 917.996 | ppb | 0.3135 | 0.0 | 39595.3 |
| Mg 279.078 | 2111.83 | ppb | 3.6055 | 0.2 | 5142.73 |
| Mn 257.610 | 375.274 | ppb | 0.3227 | 0.1 | 77660.2 |
| Mo 202.032 | 0.5674 | ppb | 0.4255 | 75.0 | 9.7810 |
| Na 330.237 | 6677.91 | ppb | 62.8380 | 0.9 | 341.193 |
| Ni 231.604 | 0.2526 | ppb | 0.2289 | 90.6 | -4.0658 |
| Pb 220.353 | 2.2778 | ppb | 0.2889 | 12.7 | 3.7443 |
| Sb 206.834 | 3.5634 | ppb | 0.3942 | 11.1 | 5.8196 |
| Se 196.026 | 4.3731 | ppb | 0.7103 | 16.2 | 4.4968 |
| Sn 189.925 | 0.1812 | ppb | 4.0208 | 2218.6 | -5.2518 |
| Sr 216.596 | 838.346 | ppb | 0.7577 | 0.1 | 9168.07 |
| Ti 334.941 | 0.1781 | ppb | 0.0283 | 15.9 | -9.4252 |
| Tl 190.794 | -0.9735 | ppb | 1.2644 | 129.9 | -6.7619 |
| V 292.401 | -0.0255 | ppb | 0.1445 | 566.3 | -7.8329 |
| Zn 206.200 | 2.5567 | ppb | 1.3250 | 51.8 | 3.5071 |

**680-106174-e-7-c (Samp)** **10/15/2014, 11:51:24 AM** **Rack 1, Tube 18**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2988u | -0.2487u | 0.2577 |
| Al 308.215 | 13.8895 | 14.7627 | 13.1660 |
| As 188.980 | 1.4303 | 4.1400 | -0.4040u |
| B 249.678 | 7.5865 | 7.4252 | 8.0612 |
| Ba 389.178 | 41.2232 | 41.3042 | 41.4953 |
| Be 313.042 | 0.0129 | 0.0115 | 0.0081 |
| Ca 370.602 | 15009 | 15025 | 14998 |
| Cd 226.502 | -0.1509u | -0.0048 | -0.1903u |
| Co 228.615 | 0.0722 | -0.1915u | -0.3486u |
| Cr 267.716 | 0.3320 | 0.2483 | 0.2629 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | -0.0975u | -0.1056u | 0.1178 |
| Fe 271.441 | 171.228 | 165.697 | 165.070 |
| K 766.491 | 786.642 | 785.242 | 786.294 |
| Mg 279.078 | 1958.45 | 1956.24 | 1958.14 |
| Mn 257.610 | 373.798 | 373.375 | 372.999 |
| Mo 202.032 | 1.1268 | 1.0547 | 0.8387 |
| Na 330.237 | 6707.06 | 6471.28 | 6419.82 |
| Ni 231.604 | 0.5009 | 0.5335 | -0.0125u |
| Pb 220.353 | 1.3560 | 0.8795 | 0.9375 |
| Sb 206.834 | 1.4556 | 0.8802 | -1.3201u |
| Se 196.026 | 10.3597 | 6.2549 | 3.7016 |
| Sn 189.925 | 2.1852 | -0.6450u | -0.7285u |
| Sr 216.596 | 599.655 | 597.850 | 596.266 |
| Ti 334.941 | 0.1360 | 0.1385 | 0.1329 |
| Tl 190.794 | 0.2295 | -2.5445u | -0.8896u |
| V 292.401 | -0.2817u | 0.0999 | -0.0534u |
| Zn 206.200 | 1.0957 | 1.1650 | 1.3118 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0966 | ppb | 0.3078 | 318.7 | -34.8265 |
| Al 308.215 | 13.9394 | ppb | 0.7995 | 5.7 | 486.935 |
| As 188.980 | 1.7221 | ppb | 2.2860 | 132.7 | -1.4891 |
| B 249.678 | 7.6910 | ppb | 0.3306 | 4.3 | 151.443 |
| Ba 389.178 | 41.3409 | ppb | 0.1397 | 0.3 | 790.232 |
| Be 313.042 | 0.0108 | ppb | 0.0024 | 22.4 | -295.769 |
| Ca 370.602 | 15011 | ppb | 13.73 | 0.1 | 34717 |
| Cd 226.502 | -0.1154 | ppb | 0.0977 | 84.7 | 9.4650 |
| Co 228.615 | -0.1559 | ppb | 0.2127 | 136.4 | 1.5160 |
| Cr 267.716 | 0.2811 | ppb | 0.0447 | 15.9 | 46.9341 |
| Cu 324.754 | -0.0285 | ppb | 0.1267 | 445.3 | 248.005 |
| Fe 271.441 | 167.332 | ppb | 3.3892 | 2.0 | 242.466 |
| K 766.491 | 786.060 | ppb | 0.7288 | 0.1 | 33951.3 |
| Mg 279.078 | 1957.61 | ppb | 1.1951 | 0.1 | 4768.09 |
| Mn 257.610 | 373.391 | ppb | 0.3999 | 0.1 | 77269.7 |
| Mo 202.032 | 1.0068 | ppb | 0.1499 | 14.9 | 12.4987 |
| Na 330.237 | 6532.72 | ppb | 153.161 | 2.3 | 334.299 |
| Ni 231.604 | 0.3406 | ppb | 0.3063 | 89.9 | -3.8204 |
| Pb 220.353 | 1.0577 | ppb | 0.2600 | 24.6 | 2.0017 |
| Sb 206.834 | 0.3386 | ppb | 1.4650 | 432.7 | 1.5631 |
| Se 196.026 | 6.7721 | ppb | 3.3590 | 49.6 | 5.4203 |
| Sn 189.925 | 0.2706 | ppb | 1.6587 | 613.0 | -5.1931 |
| Sr 216.596 | 597.924 | ppb | 1.6956 | 0.3 | 6540.63 |
| Ti 334.941 | 0.1358 | ppb | 0.0028 | 2.1 | -21.3966 |
| Tl 190.794 | -1.0682 | ppb | 1.3956 | 130.6 | -6.8596 |
| V 292.401 | -0.0784 | ppb | 0.1920 | 245.0 | -9.2638 |
| Zn 206.200 | 1.1908 | ppb | 0.1104 | 9.3 | 2.2737 |

**680-106174-e-8-a (Samp)** **10/15/2014, 11:55:40 AM** **Rack 1, Tube 19**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2186u | -0.0283u | -0.0573u |
| Al 308.215 | 8.8915 | 9.3582 | 9.4255 |
| As 188.980 | 1.6410 | -1.7316u | 4.4903 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 1.6135 | 2.2270 | 2.1172 |
| Ba 389.178 | -0.2229u | -0.7218u | -0.6960u |
| Be 313.042 | 0.0172 | 0.0140 | 0.0171 |
| Ca 370.602 | 31.37 | 33.52 | 34.32 |
| Cd 226.502 | -0.0165u | 0.0126 | -0.0690u |
| Co 228.615 | -0.2292u | 0.1047 | -0.0698u |
| Cr 267.716 | 0.2476 | 0.5389 | 0.3962 |
| Cu 324.754 | -0.2313u | -0.2092u | -0.3232u |
| Fe 271.441 | -1.3121u | 0.4193 | -4.9540u |
| K 766.491 | -0.8821u | -0.9248u | -1.2418u |
| Mg 279.078 | 3.1674 | 1.6009 | 3.2371 |
| Mn 257.610 | 0.1221 | 0.1224 | 0.0857 |
| Mo 202.032 | -0.2748u | -0.1406u | 0.2075 |
| Na 330.237 | 115.775 | 83.0713 | 145.005 |
| Ni 231.604 | 0.7574 | 0.6209 | 0.5224 |
| Pb 220.353 | 1.5178 | 0.4211 | -0.1182u |
| Sb 206.834 | -1.7934u | 1.7492 | -0.4465u |
| Se 196.026 | 9.8795 | 2.4236 | 9.7400 |
| Sn 189.925 | 3.0589 | 2.1002 | 1.4445 |
| Sr 216.596 | 0.4473 | -0.0999u | 0.0925 |
| Ti 334.941 | 0.0788 | 0.0781 | 0.1187 |
| Tl 190.794 | -1.4299u | 0.4903 | 2.8925 |
| V 292.401 | -0.0547u | 0.0318 | 0.2144 |
| Zn 206.200 | 2.7166 | 4.8653 | 2.5666 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1014 | ppb | 0.1025 | 101.1 | -18.2998 |
| Al 308.215 | 9.2250 | ppb | 0.2908 | 3.2 | 455.406 |
| As 188.980 | 1.4666 | ppb | 3.1146 | 212.4 | -1.6251 |
| B 249.678 | 1.9859 | ppb | 0.3272 | 16.5 | 65.4994 |
| Ba 389.178 | -0.5469 | ppb | 0.2809 | 51.4 | -61.8718 |
| Be 313.042 | 0.0161 | ppb | 0.0018 | 11.4 | -290.868 |
| Ca 370.602 | 33.07 | ppb | 1.530 | 4.6 | 87.59 |
| Cd 226.502 | -0.0243 | ppb | 0.0414 | 170.3 | 12.3024 |
| Co 228.615 | -0.0647 | ppb | 0.1670 | 258.0 | 2.4811 |
| Cr 267.716 | 0.3942 | ppb | 0.1457 | 37.0 | 50.6966 |
| Cu 324.754 | -0.2546 | ppb | 0.0604 | 23.7 | 232.035 |
| Fe 271.441 | -1.9489 | ppb | 2.7427 | 140.7 | 4.1068 |
| K 766.491 | -1.0162 | ppb | 0.1965 | 19.3 | 281.610 |
| Mg 279.078 | 2.6684 | ppb | 0.9252 | 34.7 | 25.4100 |
| Mn 257.610 | 0.1101 | ppb | 0.0211 | 19.2 | 63.4815 |
| Mo 202.032 | -0.0693 | ppb | 0.2489 | 359.1 | 5.8465 |
| Na 330.237 | 114.617 | ppb | 30.9832 | 27.0 | 27.4537 |
| Ni 231.604 | 0.6336 | ppb | 0.1180 | 18.6 | -3.0220 |
| Pb 220.353 | 0.6069 | ppb | 0.8337 | 137.4 | 1.3013 |
| Sb 206.834 | -0.1636 | ppb | 1.7882 | 1093.2 | 0.9151 |
| Se 196.026 | 7.3477 | ppb | 4.2650 | 58.0 | 5.5690 |
| Sn 189.925 | 2.2012 | ppb | 0.8119 | 36.9 | -3.9255 |
| Sr 216.596 | 0.1466 | ppb | 0.2776 | 189.3 | 3.9854 |
| Ti 334.941 | 0.0919 | ppb | 0.0233 | 25.3 | -36.3914 |
| Tl 190.794 | 0.6510 | ppb | 2.1657 | 332.7 | -5.3247 |
| V 292.401 | 0.0638 | ppb | 0.1374 | 215.3 | -5.4393 |
| Zn 206.200 | 3.3828 | ppb | 1.2860 | 38.0 | 4.2574 |

**680-106120-c-1-a (Samp)** **10/15/2014, 11:59:56 AM** **Rack 1, Tube 20**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.2450 | 0.1720 | -0.0981u |
| Al 308.215 | 50.4899 | 50.1499 | 49.0965 |
| As 188.980 | 11.8341 | 3.7320 | 8.8345 |
| B 249.678 | 102.661 | 103.667 | 103.224 |
| Ba 389.178 | 36.7692 | 37.1790 | 36.2437 |
| Be 313.042 | 0.0030 | 0.0091 | 0.0124 |
| Ca 370.602 | 43774 | 43843 | 44036 |
| Cd 226.502 | 0.0817 | 0.0499 | 0.1349 |
| Co 228.615 | 8.7301 | 9.2486 | 8.9125 |
| Cr 267.716 | 1.5673 | 1.3888 | 1.4891 |
| Cu 324.754 | 107.159 | 107.752 | 107.699 |
| Fe 271.441 | 4057.21 | 4056.02 | 4057.29 |
| K 766.491 | 75578.1x | 75615.6x | 75551.9x |
| Mg 279.078 | 22971.4 | 22963.1 | 22965.7 |
| Mn 257.610 | 286.486 | 286.365 | 286.790 |
| Mo 202.032 | 29.9894 | 30.2804 | 30.6122 |
| Na 330.237 | 50327.8 | 50169.0 | 50016.3 |
| Ni 231.604 | 16.8035 | 15.1533 | 15.1530 |
| Pb 220.353 | -0.3931u | 1.8192 | 0.1182u |
| Sb 206.834 | 3.0510 | -0.7964u | 1.7085 |
| Se 196.026 | 11.1049 | 8.8236 | 12.6898 |
| Sn 189.925 | 5.0984 | 4.2604 | 7.4155 |
| Sr 216.596 | 196.684 | 197.383 | 199.624 |
| Ti 334.941 | 0.9818 | 0.8938 | 1.0328 |
| Tl 190.794 | -0.4180u | 2.5085 | -4.6849u |
| V 292.401 | 0.4544 | 0.6216 | 0.5922 |
| Zn 206.200 | 402.690 | 409.544 | 406.580 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.1063b | ppb | 0.1807 | 170.0 | -8.1451 |
| Al 308.215 | 49.9121b | ppb | 0.7265 | 1.5 | 733.119 |
| As 188.980 | 8.1335b | ppb | 4.0963 | 50.4 | 1.9236 |
| B 249.678 | 103.184b | ppb | 0.5041 | 0.5 | 1587.43 |
| Ba 389.178 | 36.7306b | ppb | 0.4688 | 1.3 | 725.449 |
| Be 313.042 | 0.0082b | ppb | 0.0048 | 58.4 | -303.355 |
| Ca 370.602 | 43884b | ppb | 135.6 | 0.3 | 101424 |
| Cd 226.502 | 0.0888b | ppb | 0.0430 | 48.3 | 31.0249 |
| Co 228.615 | 8.9638b | ppb | 0.2630 | 2.9 | 96.0830 |
| Cr 267.716 | 1.4817b | ppb | 0.0895 | 6.0 | 108.625 |
| Cu 324.754 | 107.537b | ppb | 0.3285 | 0.3 | 7794.97 |
| Fe 271.441 | 4056.84b | ppb | 0.7111 | 0.0 | 5720.88 |
| K 766.491 | 75581.8xb | ppb | 32.0144 | 0.0 | 3233578 |
| Mg 279.078 | 22966.7b | ppb | 4.2361 | 0.0 | 55811.4 |
| Mn 257.610 | 286.547b | ppb | 0.2189 | 0.1 | 59475.7 |
| Mo 202.032 | 30.2940b | ppb | 0.3116 | 1.0 | 193.572 |
| Na 330.237 | 50171.0b | ppb | 155.768 | 0.3 | 2409.49 |
| Ni 231.604 | 15.7033b | ppb | 0.9528 | 6.1 | 39.0144 |
| Pb 220.353 | 0.5148b | ppb | 1.1582 | 225.0 | 0.9381 |
| Sb 206.834 | 1.3210b | ppb | 1.9527 | 147.8 | 2.5088 |
| Se 196.026 | 10.8728b | ppb | 1.9435 | 17.9 | 7.0121 |
| Sn 189.925 | 5.5914b | ppb | 1.6343 | 29.2 | -1.6825 |
| Sr 216.596 | 197.897b | ppb | 1.5360 | 0.8 | 2183.37 |

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| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 0.9695b | ppb | 0.0703 | 7.3 | 242.294 |
| Tl 190.794 | -0.8648b | ppb | 3.6175 | 418.3 | -7.2322 |
| V 292.401 | 0.5561b | ppb | 0.0892 | 16.0 | 3.7813 |
| Zn 206.200 | 406.271b | ppb | 3.4371 | 0.8 | 367.574 |

**680-106120-a-2-a (Samp)** **10/15/2014, 12:04:12 PM** **Rack 1, Tube 21**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2083u | 0.1246 | 0.1670 |
| Al 308.215 | 17.8584 | 18.5316 | 17.3503 |
| As 188.980 | 2.9245 | 12.3838 | 3.7108 |
| B 249.678 | 14.7856 | 14.6785 | 14.6936 |
| Ba 389.178 | 22.7635 | 23.2344 | 23.3186 |
| Be 313.042 | 0.0176 | 0.0202 | 0.0252 |
| Ca 370.602 | 7334 | 7361 | 7358 |
| Cd 226.502 | -0.1231u | -0.1474u | -0.2082u |
| Co 228.615 | -0.5878u | -0.5600u | 0.2179 |
| Cr 267.716 | 0.4450 | 0.4230 | 0.4150 |
| Cu 324.754 | 14.1909 | 14.1750 | 14.1413 |
| Fe 271.441 | 5.0462 | 8.9676 | 9.2464 |
| K 766.491 | 2096.43 | 2107.40 | 2107.52 |
| Mg 279.078 | 1617.72 | 1625.51 | 1623.00 |
| Mn 257.610 | 3.1874 | 3.1626 | 3.1889 |
| Mo 202.032 | -0.0464u | -0.1257u | -0.4041u |
| Na 330.237 | 28075.7 | 28424.9 | 28456.1 |
| Ni 231.604 | 1.0300 | 0.7069 | 0.6927 |
| Pb 220.353 | -0.6629u | -0.3620u | 0.3321 |
| Sb 206.834 | 2.2971 | 3.8914 | 1.0459 |
| Se 196.026 | 1.7236 | 3.0794 | 14.0938 |
| Sn 189.925 | 2.7843 | -0.2280u | 1.1526 |
| Sr 216.596 | 63.5929 | 63.5198 | 63.5976 |
| Ti 334.941 | 0.0736 | 0.0658 | 0.1191 |
| Tl 190.794 | 0.3175 | 1.5421 | -0.2304u |
| V 292.401 | 1.0050 | 0.9932 | 1.1372 |
| Zn 206.200 | 34.4871 | 33.4992 | 35.3394 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0278 | ppb | 0.2055 | 740.7 | -10.2879 |
| Al 308.215 | 17.9134 | ppb | 0.5926 | 3.3 | 513.012 |
| As 188.980 | 6.3397 | ppb | 5.2491 | 82.8 | 0.9893 |
| B 249.678 | 14.7193 | ppb | 0.0580 | 0.4 | 258.066 |
| Ba 389.178 | 23.1055 | ppb | 0.2992 | 1.3 | 419.892 |
| Be 313.042 | 0.0210 | ppb | 0.0039 | 18.4 | -283.561 |
| Ca 370.602 | 7351 | ppb | 14.96 | 0.2 | 17004 |
| Cd 226.502 | -0.1596 | ppb | 0.0438 | 27.5 | 7.1262 |
| Co 228.615 | -0.3099 | ppb | 0.4574 | 147.6 | -0.0683 |
| Cr 267.716 | 0.4277 | ppb | 0.0156 | 3.6 | 52.8880 |
| Cu 324.754 | 14.1691 | ppb | 0.0253 | 0.2 | 1243.64 |
| Fe 271.441 | 7.7534 | ppb | 2.3486 | 30.3 | 17.7201 |
| K 766.491 | 2103.79 | ppb | 6.3697 | 0.3 | 90321.2 |
| Mg 279.078 | 1622.08 | ppb | 3.9745 | 0.2 | 3959.71 |
| Mn 257.610 | 3.1796 | ppb | 0.0147 | 0.5 | 710.031 |
| Mo 202.032 | -0.1920 | ppb | 0.1879 | 97.8 | 5.0857 |

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| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 28318.9 | ppb | 211.197 | 0.7 | 1375.02 |
| Ni 231.604 | 0.8099 | ppb | 0.1908 | 23.6 | -2.5318 |
| Pb 220.353 | -0.2309 | ppb | 0.5103 | 221.0 | 0.1069 |
| Sb 206.834 | 2.4115 | ppb | 1.4262 | 59.1 | 4.3109 |
| Se 196.026 | 6.2989 | ppb | 6.7845 | 107.7 | 5.1659 |
| Sn 189.925 | 1.2363 | ppb | 1.5079 | 122.0 | -4.5520 |
| Sr 216.596 | 63.5701 | ppb | 0.0437 | 0.1 | 699.428 |
| Ti 334.941 | 0.0862 | ppb | 0.0288 | 33.4 | -37.4465 |
| Tl 190.794 | 0.5431 | ppb | 0.9075 | 167.1 | -5.4292 |
| V 292.401 | 1.0451 | ppb | 0.0800 | 7.7 | 19.8188 |
| Zn 206.200 | 34.4419 | ppb | 0.9209 | 2.7 | 32.2777 |

**680-106095-e-1-a (Samp)** **10/15/2014, 12:08:29 PM** **Rack 1, Tube 22**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2251u | -0.0872u | -0.0794u |
| Al 308.215 | 1903.28 | 1923.44 | 1902.02 |
| As 188.980 | 2.6217 | 6.5839 | 6.3546 |
| B 249.678 | 6.6738 | 6.8934 | 6.5813 |
| Ba 389.178 | 39.1808 | 39.2274 | 38.1484 |
| Be 313.042 | 0.1833 | 0.1784 | 0.1811 |
| Ca 370.602 | 756.7 | 769.0 | 763.2 |
| Cd 226.502 | 0.0090 | -0.1350 | -0.0793 |
| Co 228.615 | 1.0322 | 0.5469 | 0.9268 |
| Cr 267.716 | 2.6124 | 2.5009 | 2.7220 |
| Cu 324.754 | 4.2217 | 4.6538 | 4.5993 |
| Fe 271.441 | 2390.64 | 2412.45 | 2385.40 |
| K 766.491 | 1159.61 | 1160.83 | 1149.69 |
| Mg 279.078 | 747.375 | 755.099 | 749.682 |
| Mn 257.610 | 13.8624 | 13.9246 | 13.8432 |
| Mo 202.032 | 0.1590 | 0.7156 | 0.8901 |
| Na 330.237 | 2384.34 | 2238.94 | 2317.94 |
| Ni 231.604 | 2.0289 | 2.4275 | 1.1412 |
| Pb 220.353 | -0.3022u | 2.7968 | 2.4117 |
| Sb 206.834 | 1.6968 | 1.4244 | 2.7914 |
| Se 196.026 | 1.8892 | 14.7855 | 2.4321 |
| Sn 189.925 | 0.5400 | 0.9990 | 3.0140 |
| Sr 216.596 | 9.1618 | 9.3517 | 9.4630 |
| Ti 334.941 | 27.8857 | 27.8551 | 27.4380 |
| Tl 190.794 | 2.9211 | 0.9309 | 0.5196 |
| V 292.401 | 11.4071 | 11.6136 | 11.2496 |
| Zn 206.200 | 4.5723 | 6.6740 | 7.3189 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1306 | ppb | 0.0820 | 62.8 | -21.1254 |
| Al 308.215 | 1909.58 | ppb | 12.0213 | 0.6 | 13035.8 |
| As 188.980 | 5.1867 | ppb | 2.2244 | 42.9 | 0.3741 |
| B 249.678 | 6.7161 | ppb | 0.1603 | 2.4 | 132.063 |
| Ba 389.178 | 38.8522 | ppb | 0.6100 | 1.6 | 739.358 |
| Be 313.042 | 0.1809 | ppb | 0.0024 | 1.3 | -22.0006 |
| Ca 370.602 | 763.0 | ppb | 6.196 | 0.8 | 1762 |
| Cd 226.502 | -0.0684 | ppb | 0.0726 | 106.0 | 19.1524 |
| Co 228.615 | 0.8353 | ppb | 0.2552 | 30.6 | 12.5185 |

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| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 2.6118 | ppb | 0.1106 | 4.2 | 161.842 |
| Cu 324.754 | 4.4916 | ppb | 0.2353 | 5.2 | 565.770 |
| Fe 271.441 | 2396.16 | ppb | 14.3447 | 0.6 | 3381.41 |
| K 766.491 | 1156.71 | ppb | 6.1118 | 0.5 | 49807.1 |
| Mg 279.078 | 750.719 | ppb | 3.9655 | 0.5 | 1841.90 |
| Mn 257.610 | 13.8767 | ppb | 0.0426 | 0.3 | 2922.56 |
| Mo 202.032 | 0.5882 | ppb | 0.3819 | 64.9 | 9.8028 |
| Na 330.237 | 2313.74 | ppb | 72.7927 | 3.1 | 131.889 |
| Ni 231.604 | 1.8659 | ppb | 0.6585 | 35.3 | 0.5729 |
| Pb 220.353 | 1.6354 | ppb | 1.6891 | 103.3 | 2.5905 |
| Sb 206.834 | 1.9709 | ppb | 0.7235 | 36.7 | 3.8106 |
| Se 196.026 | 6.3689 | ppb | 7.2940 | 114.5 | 5.2129 |
| Sn 189.925 | 1.5177 | ppb | 1.3160 | 86.7 | -4.3743 |
| Sr 216.596 | 9.3255 | ppb | 0.1523 | 1.6 | 107.054 |
| Ti 334.941 | 27.7262 | ppb | 0.2501 | 0.9 | 7633.08 |
| Tl 190.794 | 1.4572 | ppb | 1.2844 | 88.1 | -4.8004 |
| V 292.401 | 11.4234 | ppb | 0.1826 | 1.6 | 290.004 |
| Zn 206.200 | 6.1884 | ppb | 1.4363 | 23.2 | 6.6919 |

**680-106095-e-2-a (Samp)** **10/15/2014, 12:12:46 PM** **Rack 1, Tube 23**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.4125u | -0.3470u | -0.1359u |
| Al 308.215 | 6588.81 | 6599.53 | 6566.75 |
| As 188.980 | 4.6277 | 4.2473 | 9.4555 |
| B 249.678 | 6.0525 | 6.4928 | 6.1877 |
| Ba 389.178 | 83.7887 | 85.4614 | 83.4986 |
| Be 313.042 | 0.6483 | 0.6443 | 0.6410 |
| Ca 370.602 | 1964 | 1984 | 1966 |
| Cd 226.502 | 0.2697 | 0.2236 | 0.2670 |
| Co 228.615 | 7.8200 | 7.0994 | 7.4382 |
| Cr 267.716 | 15.1125 | 14.9691 | 14.8938 |
| Cu 324.754 | 35.5797 | 35.1937 | 35.3641 |
| Fe 271.441 | 10219.0 | 10273.2 | 10180.6 |
| K 766.491 | 4422.56 | 4439.17 | 4424.52 |
| Mg 279.078 | 3976.81 | 3980.28 | 3947.72 |
| Mn 257.610 | 176.902 | 177.543 | 176.471 |
| Mo 202.032 | 0.7495 | 1.0125 | 0.5997 |
| Na 330.237 | 1349.28 | 1173.56 | 1186.81 |
| Ni 231.604 | 8.6885 | 7.8008 | 7.2687 |
| Pb 220.353 | 8.6212 | 12.0786 | 9.6263 |
| Sb 206.834 | 3.6897 | 0.6178 | -0.8372u |
| Se 196.026 | 6.5591 | 10.3470 | 3.9043 |
| Sn 189.925 | 1.2826 | 2.1810 | -0.0476u |
| Sr 216.596 | 15.5164 | 15.0792 | 15.8238 |
| Ti 334.941 | 304.121 | 304.861 | 303.389 |
| Tl 190.794 | 3.9118 | -0.2519u | -0.0956u |
| V 292.401 | 20.3667 | 20.0465 | 20.2578 |
| Zn 206.200 | 122.941 | 124.330 | 122.007 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.2984 | ppb | 0.1445 | 48.4 | -34.7731 |
| Al 308.215 | 6585.03 | ppb | 16.7134 | 0.3 | 43988.6 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 6.1101 | ppb | 2.9034 | 47.5 | 0.8679 |
| B 249.678 | 6.2443 | ppb | 0.2255 | 3.6 | 108.594 |
| Ba 389.178 | 84.2496 | ppb | 1.0595 | 1.3 | 1668.06 |
| Be 313.042 | 0.6445 | ppb | 0.0037 | 0.6 | 733.474 |
| Ca 370.602 | 1971 | ppb | 10.78 | 0.5 | 4580 |
| Cd 226.502 | 0.2534 | ppb | 0.0259 | 10.2 | 59.0633 |
| Co 228.615 | 7.4525 | ppb | 0.3605 | 4.8 | 87.2249 |
| Cr 267.716 | 14.9918 | ppb | 0.1111 | 0.7 | 780.776 |
| Cu 324.754 | 35.3792 | ppb | 0.1934 | 0.5 | 2735.21 |
| Fe 271.441 | 10224.3 | ppb | 46.4772 | 0.5 | 14406.2 |
| K 766.491 | 4428.75 | ppb | 9.0774 | 0.2 | 189779 |
| Mg 279.078 | 3968.27 | ppb | 17.8827 | 0.5 | 9654.39 |
| Mn 257.610 | 176.972 | ppb | 0.5392 | 0.3 | 36695.0 |
| Mo 202.032 | 0.7872 | ppb | 0.2090 | 26.5 | 10.6934 |
| Na 330.237 | 1236.55 | ppb | 97.8535 | 7.9 | 75.1053 |
| Ni 231.604 | 7.9193 | ppb | 0.7173 | 9.1 | 17.9231 |
| Pb 220.353 | 10.1087 | ppb | 1.7785 | 17.6 | 14.0543 |
| Sb 206.834 | 1.1568 | ppb | 2.3111 | 199.8 | 3.1002 |
| Se 196.026 | 6.9368 | ppb | 3.2379 | 46.7 | 5.5217 |
| Sn 189.925 | 1.1387 | ppb | 1.1213 | 98.5 | -4.6239 |
| Sr 216.596 | 15.4731 | ppb | 0.3742 | 2.4 | 182.845 |
| Ti 334.941 | 304.123 | ppb | 0.7360 | 0.2 | 84334.8 |
| Tl 190.794 | 1.1881 | ppb | 2.3601 | 198.6 | -5.8941 |
| V 292.401 | 20.2237 | ppb | 0.1628 | 0.8 | 524.429 |
| Zn 206.200 | 123.093 | ppb | 1.1685 | 0.9 | 111.830 |

**680-106201-c-1-a (Samp)** **10/15/2014, 12:17:03 PM** **Rack 1, Tube 24**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 30.5582 | 30.6484 | 30.1270 |
| Al 308.215 | 1147.79 | 1156.18 | 1136.11 |
| As 188.980 | 11.4704 | 9.2921 | 12.4295 |
| B 249.678 | 3141.20 | 3144.31 | 3116.44 |
| Ba 389.178 | 7.7363 | 7.8224 | 8.0316 |
| Be 313.042 | 0.3875u | 0.3998u | 0.4009u |
| Ca 370.602 | 19791 | 19852 | 19657 |
| Cd 226.502 | 80.6488 | 80.2489 | 79.2311 |
| Co 228.615 | 5.0122 | 5.3287 | 4.7949 |
| Cr 267.716 | 152.848 | 153.873 | 151.725 |
| Cu 324.754 | 70.7571 | 70.8485 | 69.4547 |
| Fe 271.441 | 607.532 | 612.756 | 604.763 |
| K 766.491 | 63344.8x | 62013.4x | 60759.8x |
| Mg 279.078 | 587.468 | 591.265 | 578.688 |
| Mn 257.610 | 4.8391 | 4.8626 | 4.8333 |
| Mo 202.032 | 8.2176 | 8.5955 | 8.2443 |
| Na 330.237 | 6565955x | 6690096x | 6541191x |
| Ni 231.604 | 81.7330 | 83.6060 | 80.9575 |
| Pb 220.353 | 1.3084 | -2.3232u | -1.9036u |
| Sb 206.834 | 1.7165 | 7.5498 | 5.5796 |
| Se 196.026 | 29.9849 | 33.1236 | 21.5950 |
| Sn 189.925 | -5.3484u | -5.8721u | -1.6630 |
| Sr 216.596 | 61.7311 | 61.8571 | 63.1222 |
| Ti 334.941 | 26.3865 | 26.6530 | 26.1657 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -7.3141u | -7.0973u | -6.3874u |
| V 292.401 | 6.6253 | 6.7808 | 6.5924 |
| Zn 206.200 | 13.2127 | 14.8245 | 11.9852 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 30.4445b | ppb | 0.2787 | 0.9 | 2342.08 |
| Al 308.215 | 1146.70b | ppb | 10.0775 | 0.9 | 7984.31 |
| As 188.980 | 11.0640b | ppb | 1.6077 | 14.5 | 3.5283 |
| B 249.678 | 3133.98b | ppb | 15.2723 | 0.5 | 47423.1 |
| Ba 389.178 | 7.8634b | ppb | 0.1519 | 1.9 | 109.789 |
| Be 313.042 | 0.3961b | ppb | 0.0074 | 1.9 | -330.727 |
| Ca 370.602 | 19766b | ppb | 99.61 | 0.5 | 45708 |
| Cd 226.502 | 80.0429b | ppb | 0.7309 | 0.9 | 2973.84 |
| Co 228.615 | 5.0452b | ppb | 0.2684 | 5.3 | 56.3682 |
| Cr 267.716 | 152.815b | ppb | 1.0745 | 0.7 | 7735.35 |
| Cu 324.754 | 70.3534b | ppb | 0.7797 | 1.1 | 5184.75 |
| Fe 271.441 | 608.351b | ppb | 4.0589 | 0.7 | 864.356 |
| K 766.491 | 62039.4xb | ppb | 1292.70 | 2.1 | 2654255 |
| Mg 279.078 | 585.807b | ppb | 6.4508 | 1.1 | 1441.68 |
| Mn 257.610 | 4.8450b | ppb | 0.0155 | 0.3 | 1016.63 |
| Mo 202.032 | 8.3525b | ppb | 0.2109 | 2.5 | 57.9334 |
| Na 330.237 | 6599080xb | ppb | 79788.1 | 1.2 | 315500 |
| Ni 231.604 | 82.0989b | ppb | 1.3616 | 1.7 | 222.687 |
| Pb 220.353 | -0.9728b | ppb | 1.9867 | 204.2 | -0.9104 |
| Sb 206.834 | 4.9486b | ppb | 2.9674 | 60.0 | 9.1550 |
| Se 196.026 | 28.2345b | ppb | 5.9603 | 21.1 | 13.6162 |
| Sn 189.925 | -4.2945b | ppb | 2.2939 | 53.4 | -6.3394 |
| Sr 216.596 | 62.2368b | ppb | 0.7694 | 1.2 | 687.580 |
| Ti 334.941 | 26.4017b | ppb | 0.2440 | 0.9 | 6754.87 |
| Tl 190.794 | -6.9329b | ppb | 0.4848 | 7.0 | -12.8161 |
| V 292.401 | 6.6662b | ppb | 0.1006 | 1.5 | 108.925 |
| Zn 206.200 | 13.3408b | ppb | 1.4240 | 10.7 | 12.8204 |

**Cont Calib Verif (CCV)** **10/15/2014, 12:21:19 PM** **Rack 1, Tube 25**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 496.521 | 495.361 | 500.753 |
| Al 308.215 | 4859.53 | 4858.16 | 4869.07 |
| As 188.980 | 460.548 | 457.276 | 464.354 |
| B 249.678 | 513.051 | 510.583 | 511.188 |
| Ba 389.178 | 4900.04 | 4903.65 | 4912.45 |
| Be 313.042 | 490.622 | 491.369 | 493.166 |
| Ca 370.602 | 4946 | 4975 | 4968 |
| Cd 226.502 | 491.271 | 492.465 | 491.607 |
| Co 228.615 | 500.020 | 501.361 | 500.776 |
| Cr 267.716 | 4916.04 | 4920.50 | 4933.81 |
| Cu 324.754 | 5064.71 | 4995.31 | 5084.53 |
| Fe 271.441 | 4941.08 | 4933.28 | 4954.67 |
| K 766.491 | 10052.6 | 10055.3 | 10100.0 |
| Mg 279.078 | 4905.51 | 4914.67 | 4910.38 |
| Mn 257.610 | 5027.90 | 5051.13 | 5057.23 |
| Mo 202.032 | 492.051 | 492.413 | 495.945 |
| Na 330.237 | 8006.26 | 8126.33 | 7970.58 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 2498.54 | 2501.97 | 2501.05 |
| Pb 220.353 | 496.858 | 499.729 | 502.854 |
| Sb 206.834 | 921.273 | 930.706 | 930.210 |
| Se 196.026 | 4831.64 | 4824.22 | 4827.74 |
| Sn 189.925 | 4956.39 | 4948.71 | 4966.48 |
| Sr 216.596 | 2445.04 | 2446.50 | 2448.12 |
| Ti 334.941 | 490.077 | 490.721 | 491.927 |
| Tl 190.794 | 5003.27 | 5002.04 | 5023.01 |
| V 292.401 | 4902.92 | 4905.74 | 4920.68 |
| Zn 206.200 | 2454.58 | 2454.51 | 2448.11 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 497.545 | ppb | 2.8377 | 0.6 | 38427.9 | 99.50897 |
| Al 308.215 | 4862.25 | ppb | 5.9410 | 0.1 | 33082.1 | 97.24505 |
| As 188.980 | 460.726 | ppb | 3.5422 | 0.8 | 244.661 | 92.14523 |
| B 249.678 | 511.607 | ppb | 1.2866 | 0.3 | 7773.56 | 102.32146 |
| Ba 389.178 | 4905.38 | ppb | 6.3838 | 0.1 | 99457.5 | 98.10764 |
| Be 313.042 | 491.719 | ppb | 1.3075 | 0.3 | 800363 | 98.34376 |
| Ca 370.602 | 4963 | ppb | 15.28 | 0.3 | 11747 | 99.25767 |
| Cd 226.502 | 491.781 | ppb | 0.6158 | 0.1 | 18435.4 | 98.35619 |
| Co 228.615 | 500.719 | ppb | 0.6726 | 0.1 | 5223.38 | 100.14381 |
| Cr 267.716 | 4923.45 | ppb | 9.2475 | 0.2 | 244316 | 98.46902 |
| Cu 324.754 | 5048.18 | ppb | 46.8503 | 0.9 | 354264 | 100.96363 |
| Fe 271.441 | 4943.01 | ppb | 10.8247 | 0.2 | 7066.20 | 98.86020 |
| K 766.491 | 10069.3 | ppb | 26.5830 | 0.3 | 431072 | 100.69321 |
| Mg 279.078 | 4910.19 | ppb | 4.5833 | 0.1 | 11854.1 | 98.20371 |
| Mn 257.610 | 5045.42 | ppb | 15.4754 | 0.3 | 1043443 | 100.90844 |
| Mo 202.032 | 493.470 | ppb | 2.1510 | 0.4 | 3054.97 | 98.69395 |
| Na 330.237 | 8034.39 | ppb | 81.5969 | 1.0 | 343.800 | 107.12524 |
| Ni 231.604 | 2500.52 | ppb | 1.7765 | 0.1 | 6921.35 | 100.02068 |
| Pb 220.353 | 499.814 | ppb | 2.9989 | 0.6 | 716.350 | 99.96277 |
| Sb 206.834 | 927.396 | ppb | 5.3089 | 0.6 | 1268.81 | 92.73964 |
| Se 196.026 | 4827.87 | ppb | 3.7112 | 0.1 | 1862.54 | 96.55730 |
| Sn 189.925 | 4957.19 | ppb | 8.9126 | 0.2 | 3253.91 | 99.14390 |
| Sr 216.596 | 2446.55 | ppb | 1.5432 | 0.1 | 26673.3 | 97.86219 |
| Ti 334.941 | 490.908 | ppb | 0.9391 | 0.2 | 136165 | 98.18166 |
| Tl 190.794 | 5009.44 | ppb | 11.7697 | 0.2 | 4899.73 | 100.18876 |
| V 292.401 | 4909.78 | ppb | 9.5436 | 0.2 | 126966 | 98.19553 |
| Zn 206.200 | 2452.40 | ppb | 3.7150 | 0.2 | 2200.89 | 98.09605 |

**Cont Calib Blank (CCB)** **10/15/2014, 12:25:33 PM** **Rack 1, Tube 26**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1541 | 0.1429 | -0.2746u |
| Al 308.215 | 7.6160 | 7.4503 | 6.2704 |
| As 188.980 | 6.1440 | 5.7586 | 2.5402 |
| B 249.678 | 18.4219 | 16.2645 | 15.1103 |
| Ba 389.178 | 0.0490 | 0.2559 | 0.7369 |
| Be 313.042 | 0.0454 | 0.0613 | 0.0568 |
| Ca 370.602 | 2.108 | 1.809 | -4.384u |
| Cd 226.502 | 0.0088 | 0.1985 | 0.1609 |
| Co 228.615 | 0.0875 | 0.2040 | 0.4004 |
| Cr 267.716 | 0.5019 | 0.5061 | 0.5089 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 0.0620 | 0.4484 | 0.5194 |
| Fe 271.441 | 1.0422 | 0.1283 | -1.6378u |
| K 766.491 | 0.5836 | -0.0236u | 0.0987 |
| Mg 279.078 | 2.0105 | 0.8924 | -1.2142u |
| Mn 257.610 | 0.4054 | 0.5052 | 0.5107 |
| Mo 202.032 | 0.9892 | 0.7526 | 1.0587 |
| Na 330.237 | 18.8617 | 6.6776 | 53.4831 |
| Ni 231.604 | 0.5996 | 1.6523 | 0.6892 |
| Pb 220.353 | 2.4292 | 0.1372 | -0.5176u |
| Sb 206.834 | 6.6761 | 3.9990 | 4.2064 |
| Se 196.026 | 7.5995 | 7.0780 | 1.6474 |
| Sn 189.925 | 2.1671 | 1.3206 | 3.2793 |
| Sr 216.596 | 0.5785 | 0.2875 | -0.0442u |
| Ti 334.941 | 0.1509 | 0.1370 | 0.1188 |
| Tl 190.794 | 4.5577 | -0.0469u | 1.6110 |
| V 292.401 | 0.2606 | 0.7946 | 0.7379 |
| Zn 206.200 | 0.4127 | 0.1288 | -1.1202u |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.0075 | ppb | 0.2444 | 3276.0 | -9.8856 | 0.00746 |
| Al 308.215 | 7.1122 | ppb | 0.7337 | 10.3 | 441.535 | 7.11223 |
| As 188.980 | 4.8143 | ppb | 1.9788 | 41.1 | 0.1706 | 4.81425 |
| B 249.678 | 16.5989 | ppb | 1.6809 | 10.1 | 286.527 | 16.59892 |
| Ba 389.178 | 0.3473 | ppb | 0.3530 | 101.6 | -43.7339 | 0.34727 |
| Be 313.042 | 0.0545 | ppb | 0.0082 | 15.0 | -228.445 | 0.05450 |
| Ca 370.602 | -0.1556 | ppb | 3.665 | 2355.0 | 10.83 | -0.15560 |
| Cd 226.502 | 0.1227 | ppb | 0.1004 | 81.8 | 17.7962 | 0.12274 |
| Co 228.615 | 0.2306 | ppb | 0.1581 | 68.6 | 5.5313 | 0.23063 |
| Cr 267.716 | 0.5056 | ppb | 0.0035 | 0.7 | 56.2172 | 0.50561 |
| Cu 324.754 | 0.3433 | ppb | 0.2462 | 71.7 | 273.999 | 0.34326 |
| Fe 271.441 | -0.1558 | ppb | 1.3624 | 874.5 | 6.6260 | -0.15579 |
| K 766.491 | 0.2196 | ppb | 0.3211 | 146.3 | 334.475 | 0.21956 |
| Mg 279.078 | 0.5629 | ppb | 1.6374 | 290.9 | 20.2878 | 0.56292 |
| Mn 257.610 | 0.4737 | ppb | 0.0592 | 12.5 | 138.668 | 0.47374 |
| Mo 202.032 | 0.9335 | ppb | 0.1605 | 17.2 | 12.0517 | 0.93346 |
| Na 330.237 | 26.3408 | ppb | 24.2825 | 92.2 | 23.3229 | 26.34081 |
| Ni 231.604 | 0.9804 | ppb | 0.5837 | 59.5 | -2.0612 | 0.98038 |
| Pb 220.353 | 0.6829 | ppb | 1.5474 | 226.6 | 1.4086 | 0.68293 |
| Sb 206.834 | 4.9605 | ppb | 1.4894 | 30.0 | 7.6512 | 4.96051 |
| Se 196.026 | 5.4417 | ppb | 3.2962 | 60.6 | 4.8353 | 5.44166 |
| Sn 189.925 | 2.2557 | ppb | 0.9824 | 43.6 | -3.8897 | 2.25567 |
| Sr 216.596 | 0.2739 | ppb | 0.3116 | 113.7 | 5.3415 | 0.27394 |
| Ti 334.941 | 0.1356 | ppb | 0.0161 | 11.9 | -24.2610 | 0.13557 |
| Tl 190.794 | 2.0406 | ppb | 2.3322 | 114.3 | -3.9687 | 2.04060 |
| V 292.401 | 0.5977 | ppb | 0.2933 | 49.1 | 8.2176 | 0.59770 |
| Zn 206.200 | -0.1929 | ppb | 0.8156 | 422.8 | 1.0313 | -0.19288 |

**680-106104-a-1-a (Samp)** **10/15/2014, 12:29:48 PM** **Rack 1, Tube 27**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0738u | 0.1994 | -0.2792u |
| Al 308.215 | 12.4475 | 12.3468 | 11.9559 |
| As 188.980 | 4.0566 | 4.8748 | 7.8467 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 18.8050 | 18.9363 | 17.7906 |
| Ba 389.178 | 22.5262 | 22.6059 | 22.2900 |
| Be 313.042 | 0.0049 | 0.0075 | 0.0077 |
| Ca 370.602 | 32627 | 32635 | 32533 |
| Cd 226.502 | -0.0366u | 0.0208 | -0.2522u |
| Co 228.615 | -0.2648u | -0.4665u | -0.1211u |
| Cr 267.716 | 0.3450 | 0.4552 | 0.4876 |
| Cu 324.754 | 1.6388 | 1.1591 | 0.9571 |
| Fe 271.441 | 47.5851 | 43.8044 | 50.6810 |
| K 766.491 | 1596.36 | 1586.57 | 1590.13 |
| Mg 279.078 | 4517.11 | 4502.99 | 4490.32 |
| Mn 257.610 | 7.0294 | 7.0579 | 6.9716 |
| Mo 202.032 | 1.9144 | 1.2301 | 1.3868 |
| Na 330.237 | 6118.39 | 6039.69 | 5911.00 |
| Ni 231.604 | 1.0187 | 0.0869 | 1.3192 |
| Pb 220.353 | -2.5742u | 1.7497 | 0.7547 |
| Sb 206.834 | 1.9799 | -0.0053u | 2.5555 |
| Se 196.026 | 6.1884 | 1.7659 | 8.9518 |
| Sn 189.925 | 0.3532 | 0.0658 | -0.4533u |
| Sr 216.596 | 213.674 | 211.869 | 211.707 |
| Ti 334.941 | 0.1799 | 0.1814 | 0.1932 |
| Tl 190.794 | -0.1256u | -2.4898u | 0.3344 |
| V 292.401 | 0.0149 | -0.2776u | -0.0377u |
| Zn 206.200 | 50.4983 | 50.7009 | 48.3140 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0020 | ppb | 0.2482 | 12420.8 | -17.2983 |
| Al 308.215 | 12.2501 | ppb | 0.2597 | 2.1 | 475.602 |
| As 188.980 | 5.5927 | ppb | 1.9944 | 35.7 | 0.5879 |
| B 249.678 | 18.5106 | ppb | 0.6270 | 3.4 | 315.287 |
| Ba 389.178 | 22.4740 | ppb | 0.1643 | 0.7 | 410.765 |
| Be 313.042 | 0.0067 | ppb | 0.0016 | 23.8 | -297.130 |
| Ca 370.602 | 32599 | ppb | 56.95 | 0.2 | 75368 |
| Cd 226.502 | -0.0893 | ppb | 0.1440 | 161.1 | 10.0668 |
| Co 228.615 | -0.2842 | ppb | 0.1735 | 61.1 | 0.1615 |
| Cr 267.716 | 0.4293 | ppb | 0.0748 | 17.4 | 52.5984 |
| Cu 324.754 | 1.2517 | ppb | 0.3501 | 28.0 | 337.762 |
| Fe 271.441 | 47.3568 | ppb | 3.4440 | 7.3 | 73.5092 |
| K 766.491 | 1591.02 | ppb | 4.9527 | 0.3 | 68386.0 |
| Mg 279.078 | 4503.47 | ppb | 13.4007 | 0.3 | 10960.0 |
| Mn 257.610 | 7.0197 | ppb | 0.0440 | 0.6 | 1525.69 |
| Mo 202.032 | 1.5104 | ppb | 0.3585 | 23.7 | 15.6205 |
| Na 330.237 | 6023.03 | ppb | 104.695 | 1.7 | 308.751 |
| Ni 231.604 | 0.8082 | ppb | 0.6425 | 79.5 | -2.5336 |
| Pb 220.353 | -0.0232 | ppb | 2.2645 | 9742.9 | 0.3990 |
| Sb 206.834 | 1.5101 | ppb | 1.3435 | 89.0 | 3.0953 |
| Se 196.026 | 5.6354 | ppb | 3.6247 | 64.3 | 4.9115 |
| Sn 189.925 | -0.0114 | ppb | 0.4087 | 3577.2 | -5.3786 |
| Sr 216.596 | 212.417 | ppb | 1.0920 | 0.5 | 2334.44 |
| Ti 334.941 | 0.1848 | ppb | 0.0073 | 4.0 | -3.4817 |
| Tl 190.794 | -0.7603 | ppb | 1.5153 | 199.3 | -6.7129 |
| V 292.401 | -0.1001 | ppb | 0.1559 | 155.7 | -9.9245 |
| Zn 206.200 | 49.8377 | ppb | 1.3235 | 2.7 | 46.1657 |

**680-106200-b-48-a (Samp)** **10/15/2014, 12:34:03 PM** **Rack 1, Tube 28**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0775u | -0.6393u | -0.4952u |
| Al 308.215 | 17277.2 | 16938.3 | 16749.9 |
| As 188.980 | 88.2899 | 89.0641 | 89.5639 |
| B 249.678 | 6.7320u | 6.1306u | 6.2905u |
| Ba 389.178 | 186.745 | 182.521 | 181.026 |
| Be 313.042 | 1.5134 | 1.4773 | 1.4606 |
| Ca 370.602 | 2884 | 2828 | 2796 |
| Cd 226.502 | -0.9950 | -0.9565 | -0.7987 |
| Co 228.615 | 22.6386 | 21.9231 | 21.9433 |
| Cr 267.716 | 51.8004 | 50.5039 | 50.0216 |
| Cu 324.754 | 14.4160 | 14.4890 | 14.2698 |
| Fe 271.441 | 73368.0 | 71657.9 | 70926.0 |
| K 766.491 | 848.121 | 835.606 | 826.679 |
| Mg 279.078 | 1015.03 | 992.655 | 983.726 |
| Mn 257.610 | 3239.20 | 3168.34 | 3134.13 |
| Mo 202.032 | 2.6423 | 2.5142 | 2.4038 |
| Na 330.237 | 58.8518u | 75.2101u | 6.5277u |
| Ni 231.604 | 13.6021 | 13.7645 | 14.1444 |
| Pb 220.353 | 45.2004 | 41.9280 | 42.2484 |
| Sb 206.834 | 2.5123 | 2.2935 | 0.7346 |
| Se 196.026 | -0.0756 | 10.2968 | 0.1597 |
| Sn 189.925 | 6.5390 | 2.5066 | 1.8045 |
| Sr 216.596 | 14.3838 | 14.0591 | 13.4858 |
| Ti 334.941 | 89.6411 | 87.8851 | 87.0524 |
| Tl 190.794 | -0.4301u | 0.6917u | -1.9661u |
| V 292.401 | 66.0071 | 64.8922 | 64.0284 |
| Zn 206.200 | 63.1850 | 63.2079 | 61.1538 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.4040 | ppb | 0.2918 | 72.2 | -38.2720 |
| Al 308.215 | 16988.5 | ppb | 267.219 | 1.6 | 112939 |
| As 188.980 | 88.9727 | ppb | 0.6419 | 0.7 | 45.0848 |
| B 249.678 | 6.3844 | ppb | 0.3115 | 4.9 | -18.5198 |
| Ba 389.178 | 183.430 | ppb | 2.9660 | 1.6 | 3706.63 |
| Be 313.042 | 1.4838 | ppb | 0.0270 | 1.8 | 2100.65 |
| Ca 370.602 | 2836 | ppb | 44.35 | 1.6 | 5964 |
| Cd 226.502 | -0.9167 | ppb | 0.1040 | 11.3 | 235.300 |
| Co 228.615 | 22.1683 | ppb | 0.4074 | 1.8 | 240.230 |
| Cr 267.716 | 50.7753 | ppb | 0.9199 | 1.8 | 2595.99 |
| Cu 324.754 | 14.3916 | ppb | 0.1116 | 0.8 | 1288.13 |
| Fe 271.441 | 71983.9 | ppb | 1253.24 | 1.7 | 101382 |
| K 766.491 | 836.802 | ppb | 10.7712 | 1.3 | 36121.9 |
| Mg 279.078 | 997.138 | ppb | 16.1287 | 1.6 | 2377.31 |
| Mn 257.610 | 3180.56 | ppb | 53.5913 | 1.7 | 657965 |
| Mo 202.032 | 2.5201 | ppb | 0.1194 | 4.7 | 18.7455 |
| Na 330.237 | 46.8632 | ppb | 35.8764 | 76.6 | 5.6979 |
| Ni 231.604 | 13.8370 | ppb | 0.2783 | 2.0 | 38.9880 |
| Pb 220.353 | 43.1256 | ppb | 1.8040 | 4.2 | 57.9595 |
| Sb 206.834 | 1.8468 | ppb | 0.9694 | 52.5 | 6.2107 |
| Se 196.026 | 3.4603 | ppb | 5.9217 | 171.1 | 5.2250 |
| Sn 189.925 | 3.6167 | ppb | 2.5550 | 70.6 | -2.9950 |
| Sr 216.596 | 13.9762 | ppb | 0.4547 | 3.3 | 232.771 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 88.1929 | ppb | 1.3215 | 1.5 | 24420.6 |
| Tl 190.794 | -0.5682 | ppb | 1.3343 | 234.8 | -13.5517 |
| V 292.401 | 64.9759 | ppb | 0.9920 | 1.5 | 1701.28 |
| Zn 206.200 | 62.5156 | ppb | 1.1794 | 1.9 | 54.7341 |

**680-106200-b-54-a (Samp)** **10/15/2014, 12:38:18 PM** **Rack 1, Tube 29**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0919 | 0.1353 | -0.2407u |
| Al 308.215 | 11712.7 | 11699.4 | 11687.3 |
| As 188.980 | 25.6351 | 29.3391 | 23.7968 |
| B 249.678 | 7.1884 | 6.9168 | 7.6614 |
| Ba 389.178 | 241.297 | 240.801 | 240.132 |
| Be 313.042 | 1.4265 | 1.4278 | 1.4266 |
| Ca 370.602 | 24770 | 24850 | 24926 |
| Cd 226.502 | 0.7685 | 0.6737 | 0.8815 |
| Co 228.615 | 9.5562 | 9.9667 | 10.1829 |
| Cr 267.716 | 30.2311 | 30.0649 | 30.0247 |
| Cu 324.754 | 55.9356 | 55.3516 | 55.6049 |
| Fe 271.441 | 31566.0 | 31578.7 | 31551.9 |
| K 766.491 | 1503.93 | 1498.17 | 1497.37 |
| Mg 279.078 | 4608.61 | 4607.83 | 4609.11 |
| Mn 257.610 | 3951.33 | 3952.20 | 3954.92 |
| Mo 202.032 | 1.9441 | 1.4246 | 1.3201 |
| Na 330.237 | 62.7820u | 375.507u | 328.882u |
| Ni 231.604 | 21.6729 | 21.1369 | 22.1107 |
| Pb 220.353 | 235.480 | 241.289 | 243.554 |
| Sb 206.834 | 1.6036 | 1.2254 | 1.8460 |
| Se 196.026 | 4.0333 | 15.0785 | 3.0718 |
| Sn 189.925 | 11.8630 | 8.3328 | 12.0094 |
| Sr 216.596 | 57.9486 | 57.8174 | 57.3926 |
| Ti 334.941 | 143.814 | 143.212 | 143.399 |
| Tl 190.794 | -2.2878u | 4.2141 | 2.6522 |
| V 292.401 | 34.3984 | 34.3413 | 34.7654 |
| Zn 206.200 | 427.231 | 429.684 | 425.451 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0045 | ppb | 0.2057 | 4569.6 | 1.0219 |
| Al 308.215 | 11699.8 | ppb | 12.6785 | 0.1 | 77871.8 |
| As 188.980 | 26.2570 | ppb | 2.8230 | 10.8 | 11.6070 |
| B 249.678 | 7.2555 | ppb | 0.3768 | 5.2 | 79.1562 |
| Ba 389.178 | 240.743 | ppb | 0.5847 | 0.2 | 4853.42 |
| Be 313.042 | 1.4269 | ppb | 0.0007 | 0.1 | 2013.95 |
| Ca 370.602 | 24849 | ppb | 78.05 | 0.3 | 57279 |
| Cd 226.502 | 0.7746 | ppb | 0.1040 | 13.4 | 154.731 |
| Co 228.615 | 9.9019 | ppb | 0.3184 | 3.2 | 111.009 |
| Cr 267.716 | 30.1069 | ppb | 0.1094 | 0.4 | 1556.51 |
| Cu 324.754 | 55.6307 | ppb | 0.2928 | 0.5 | 4164.23 |
| Fe 271.441 | 31565.5 | ppb | 13.4203 | 0.0 | 44460.6 |
| K 766.491 | 1499.82 | ppb | 3.5767 | 0.2 | 64484.8 |
| Mg 279.078 | 4608.52 | ppb | 0.6441 | 0.0 | 11138.8 |
| Mn 257.610 | 3952.82 | ppb | 1.8759 | 0.0 | 817574 |
| Mo 202.032 | 1.5629 | ppb | 0.3342 | 21.4 | 14.5702 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 255.724 | ppb | 168.711 | 66.0 | 16.0039 |
| Ni 231.604 | 21.6402 | ppb | 0.4877 | 2.3 | 57.5547 |
| Pb 220.353 | 240.108 | ppb | 4.1646 | 1.7 | 341.450 |
| Sb 206.834 | 1.5584 | ppb | 0.3128 | 20.1 | 4.4217 |
| Se 196.026 | 7.3945 | ppb | 6.6719 | 90.2 | 6.5828 |
| Sn 189.925 | 10.7351 | ppb | 2.0817 | 19.4 | 1.6853 |
| Sr 216.596 | 57.7195 | ppb | 0.2906 | 0.5 | 674.848 |
| Ti 334.941 | 143.475 | ppb | 0.3078 | 0.2 | 39761.5 |
| Tl 190.794 | 1.5262 | ppb | 3.3941 | 222.4 | -6.3870 |
| V 292.401 | 34.5017 | ppb | 0.2302 | 0.7 | 898.945 |
| Zn 206.200 | 427.455 | ppb | 2.1255 | 0.5 | 385.563 |

**680-106162-a-1-b (Samp)** **10/15/2014, 12:42:34 PM** **Rack 1, Tube 30**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 4.8206 | 5.0363 | 4.8386 |
| Al 308.215 | 33656.7 | 33050.2 | 32407.3 |
| As 188.980 | 8.5888 | 10.5747 | 3.0230 |
| B 249.678 | 412.497 | 408.826 | 402.590 |
| Ba 389.178 | 2750.73 | 2708.22 | 2662.09 |
| Be 313.042 | 0.5076 | 0.4994 | 0.4907 |
| Ca 370.602 | 212003 | 209427 | 205385 |
| Cd 226.502 | 20.1429 | 19.9791 | 19.4146 |
| Co 228.615 | 9.1857 | 9.3559 | 9.1990 |
| Cr 267.716 | 169.043 | 166.341 | 163.186 |
| Cu 324.754 | 235.234 | 229.938 | 226.589 |
| Fe 271.441 | 15090.9 | 14897.5 | 14630.6 |
| K 766.491 | 74113.7x | 72875.4x | 71774.9x |
| Mg 279.078 | 29989.9 | 29531.6 | 28934.6 |
| Mn 257.610 | 10764.0 | 10572.3 | 10433.0 |
| Mo 202.032 | 13.6763 | 14.1140 | 12.7575 |
| Na 330.237 | 28365.7 | 28024.5 | 27417.3 |
| Ni 231.604 | 27.9755 | 28.8559 | 26.9581 |
| Pb 220.353 | 38.4780 | 38.6495 | 35.8267 |
| Sb 206.834 | 1.5505 | 1.4061 | 2.5034 |
| Se 196.026 | -1.3003 | 5.9500 | -0.0809 |
| Sn 189.925 | 3.5146 | 6.4655 | 3.2204 |
| Sr 216.596 | 1013.24 | 996.943 | 981.567 |
| Ti 334.941 | 2158.42 | 2123.34 | 2082.08 |
| Tl 190.794 | 1.7179 | 1.8348 | 1.3948 |
| V 292.401 | 26.6940 | 25.8510 | 25.3952 |
| Zn 206.200 | 1007.93 | 1002.30 | 973.583 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 4.8985b | ppb | 0.1197 | 2.4 | 384.155 |
| Al 308.215 | 33038.1b | ppb | 624.818 | 1.9 | 219046 |
| As 188.980 | 7.3955b | ppb | 3.9147 | 52.9 | 1.7534 |
| B 249.678 | 407.971b | ppb | 5.0087 | 1.2 | 6173.48 |
| Ba 389.178 | 2707.01b | ppb | 44.3348 | 1.6 | 54896.0 |
| Be 313.042 | 0.4992b | ppb | 0.0085 | 1.7 | 551.301 |
| Ca 370.602 | 208938b | ppb | 3336 | 1.6 | 483837 |
| Cd 226.502 | 19.8455b | ppb | 0.3821 | 1.9 | 809.123 |
| Co 228.615 | 9.2468b | ppb | 0.0947 | 1.0 | 141.086 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 166.190b | ppb | 2.9313 | 1.8 | 8335.91 |
| Cu 324.754 | 230.587b | ppb | 4.3591 | 1.9 | 16428.7 |
| Fe 271.441 | 14873.0b | ppb | 231.113 | 1.6 | 20953.7 |
| K 766.491 | 72921.3xb | ppb | 1170.09 | 1.6 | 3119766 |
| Mg 279.078 | 29485.4b | ppb | 529.127 | 1.8 | 71448.1 |
| Mn 257.610 | 10589.8b | ppb | 166.203 | 1.6 | 2190175 |
| Mo 202.032 | 13.5160b | ppb | 0.6923 | 5.1 | 89.2570 |
| Na 330.237 | 27935.8b | ppb | 480.364 | 1.7 | 1325.23 |
| Ni 231.604 | 27.9298b | ppb | 0.9497 | 3.4 | 73.7111 |
| Pb 220.353 | 37.6514b | ppb | 1.5826 | 4.2 | 53.8901 |
| Sb 206.834 | 1.8200b | ppb | 0.5963 | 32.8 | 5.5023 |
| Se 196.026 | 1.5229b | ppb | 3.8821 | 254.9 | 5.4665 |
| Sn 189.925 | 4.4002b | ppb | 1.7947 | 40.8 | -2.4721 |
| Sr 216.596 | 997.248b | ppb | 15.8363 | 1.6 | 10984.6 |
| Ti 334.941 | 2121.28b | ppb | 38.2126 | 1.8 | 588604 |
| Tl 190.794 | 1.6492b | ppb | 0.2279 | 13.8 | -1.2992 |
| V 292.401 | 25.9801b | ppb | 0.6590 | 2.5 | 693.701 |
| Zn 206.200 | 994.605b | ppb | 18.4208 | 1.9 | 897.514 |

**680-106162-a-2-b (Samp)** **10/15/2014, 12:46:50 PM** **Rack 1, Tube 31**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 6.2560 | 5.8891 | 5.7671 |
| Al 308.215 | 32194.4 | 31242.0 | 30308.1 |
| As 188.980 | 14.0122 | 3.1258 | 5.5403 |
| B 249.678 | 431.205 | 421.978 | 413.209 |
| Ba 389.178 | 2830.70 | 2754.44 | 2673.47 |
| Be 313.042 | 0.5145 | 0.5041 | 0.4777 |
| Ca 370.602 | 211155 | 204590 | 198722 |
| Cd 226.502 | 23.0952 | 22.4517 | 21.6905 |
| Co 228.615 | 9.3239 | 8.6066 | 8.2040 |
| Cr 267.716 | 196.181 | 191.020 | 185.582 |
| Cu 324.754 | 255.237 | 244.620 | 240.837 |
| Fe 271.441 | 15045.8 | 14664.1 | 14245.0 |
| K 766.491 | 73690.9x | 71790.7x | 69926.6x |
| Mg 279.078 | 26933.5 | 26221.9 | 25500.2 |
| Mn 257.610 | 10104.6 | 9868.39 | 9537.11 |
| Mo 202.032 | 13.7058 | 13.2805 | 13.3085 |
| Na 330.237 | 30621.0 | 29903.8 | 29324.7 |
| Ni 231.604 | 26.1918 | 26.3465 | 25.1396 |
| Pb 220.353 | 40.5126 | 43.0143 | 40.2770 |
| Sb 206.834 | -0.4579 | -1.8640u | 5.0263 |
| Se 196.026 | 11.3467 | 7.9766 | 8.7512 |
| Sn 189.925 | 2.6546 | 2.5782 | 1.1914 |
| Sr 216.596 | 1021.45 | 997.663 | 968.980 |
| Ti 334.941 | 2426.78 | 2362.60 | 2292.13 |
| Tl 190.794 | -3.5985u | -1.0905 | -1.0890 |
| V 292.401 | 27.1363 | 26.2027 | 25.4937 |
| Zn 206.200 | 1044.15 | 1023.88 | 991.257 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 5.9707b | ppb | 0.2544 | 4.3 | 463.623 |
| Al 308.215 | 31248.2b | ppb | 943.150 | 3.0 | 207201 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 7.5594b | ppb | 5.7172 | 75.6 | 1.8276 |
| B 249.678 | 422.130b | ppb | 8.9989 | 2.1 | 6388.02 |
| Ba 389.178 | 2752.87b | ppb | 78.6263 | 2.9 | 55821.8 |
| Be 313.042 | 0.4988b | ppb | 0.0190 | 3.8 | 549.531 |
| Ca 370.602 | 204822b | ppb | 6220 | 3.0 | 474396 |
| Cd 226.502 | 22.4124b | ppb | 0.7032 | 3.1 | 904.352 |
| Co 228.615 | 8.7115b | ppb | 0.5673 | 6.5 | 140.187 |
| Cr 267.716 | 190.927b | ppb | 5.3000 | 2.8 | 9560.52 |
| Cu 324.754 | 246.898b | ppb | 7.4651 | 3.0 | 17572.6 |
| Fe 271.441 | 14651.6b | ppb | 400.546 | 2.7 | 20642.0 |
| K 766.491 | 71802.7xb | ppb | 1882.15 | 2.6 | 3071915 |
| Mg 279.078 | 26218.5b | ppb | 716.650 | 2.7 | 63525.5 |
| Mn 257.610 | 9836.71b | ppb | 285.081 | 2.9 | 2034426 |
| Mo 202.032 | 13.4316b | ppb | 0.2379 | 1.8 | 88.7440 |
| Na 330.237 | 29949.8b | ppb | 649.404 | 2.2 | 1420.41 |
| Ni 231.604 | 25.8926b | ppb | 0.6567 | 2.5 | 68.0510 |
| Pb 220.353 | 41.2680b | ppb | 1.5170 | 3.7 | 58.8520 |
| Sb 206.834 | 0.9014b | ppb | 3.6408 | 403.9 | 4.5458 |
| Se 196.026 | 9.3582b | ppb | 1.7651 | 18.9 | 8.3388 |
| Sn 189.925 | 2.1414b | ppb | 0.8236 | 38.5 | -3.9566 |
| Sr 216.596 | 996.030b | ppb | 26.2723 | 2.6 | 10970.0 |
| Ti 334.941 | 2360.50b | ppb | 67.3505 | 2.9 | 654979 |
| Tl 190.794 | -1.9260b | ppb | 1.4484 | 75.2 | -5.1066 |
| V 292.401 | 26.2776b | ppb | 0.8238 | 3.1 | 703.793 |
| Zn 206.200 | 1019.77b | ppb | 26.6885 | 2.6 | 920.157 |

**680-106162-a-3-b (Samp)** **10/15/2014, 12:51:06 PM** **Rack 1, Tube 32**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 5.8078 | 5.5691 | 5.7146 |
| Al 308.215 | 31902.1 | 31007.9 | 30226.1 |
| As 188.980 | 4.3301 | 10.9124 | 4.1829 |
| B 249.678 | 407.353 | 398.805 | 390.899 |
| Ba 389.178 | 2887.99 | 2809.45 | 2745.15 |
| Be 313.042 | 0.5160 | 0.4842 | 0.4870 |
| Ca 370.602 | 204085 | 200366 | 194365 |
| Cd 226.502 | 22.8329 | 22.3691 | 21.6221 |
| Co 228.615 | 8.5931 | 8.3902 | 8.5505 |
| Cr 267.716 | 226.014 | 220.651 | 215.953 |
| Cu 324.754 | 231.429 | 225.539 | 221.979 |
| Fe 271.441 | 14632.5 | 14260.4 | 13930.4 |
| K 766.491 | 77656.4x | 76042.6x | 74024.8x |
| Mg 279.078 | 27794.7 | 27060.2 | 26431.6 |
| Mn 257.610 | 9898.05 | 9659.37 | 9443.44 |
| Mo 202.032 | 14.0216 | 13.1859 | 13.0201 |
| Na 330.237 | 31129.6 | 30055.3 | 29253.5 |
| Ni 231.604 | 28.5555 | 26.2770 | 27.3031 |
| Pb 220.353 | 46.1129 | 49.7263 | 45.2530 |
| Sb 206.834 | 1.0568 | 0.3092 | 3.6216 |
| Se 196.026 | -5.3587u | 2.9448 | 8.0808 |
| Sn 189.925 | 4.8080 | 4.3040 | -0.9314u |
| Sr 216.596 | 1007.86 | 978.035 | 956.787 |
| Ti 334.941 | 2136.96 | 2085.36 | 2031.47 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 0.4345 | -0.0153 | -2.8884u |
| V 292.401 | 26.3372 | 25.2025 | 24.6847 |
| Zn 206.200 | 1085.65 | 1048.37 | 1025.18 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 5.6972b | ppb | 0.1203 | 2.1 | 442.238 |
| Al 308.215 | 31045.4b | ppb | 838.635 | 2.7 | 205859 |
| As 188.980 | 6.4752b | ppb | 3.8435 | 59.4 | 1.2460 |
| B 249.678 | 399.019b | ppb | 8.2294 | 2.1 | 6039.37 |
| Ba 389.178 | 2814.20b | ppb | 71.5370 | 2.5 | 57066.5 |
| Be 313.042 | 0.4957b | ppb | 0.0176 | 3.6 | 542.413 |
| Ca 370.602 | 199605b | ppb | 4905 | 2.5 | 462236 |
| Cd 226.502 | 22.2747b | ppb | 0.6109 | 2.7 | 897.849 |
| Co 228.615 | 8.5112b | ppb | 0.1070 | 1.3 | 132.778 |
| Cr 267.716 | 220.873b | ppb | 5.0342 | 2.3 | 11045.0 |
| Cu 324.754 | 226.315b | ppb | 4.7725 | 2.1 | 16128.9 |
| Fe 271.441 | 14274.4b | ppb | 351.221 | 2.5 | 20110.8 |
| K 766.491 | 75907.9xb | ppb | 1819.53 | 2.4 | 3247527 |
| Mg 279.078 | 27095.5b | ppb | 682.251 | 2.5 | 65659.6 |
| Mn 257.610 | 9666.95b | ppb | 227.403 | 2.4 | 1999327 |
| Mo 202.032 | 13.4092b | ppb | 0.5368 | 4.0 | 88.6227 |
| Na 330.237 | 30146.2b | ppb | 941.340 | 3.1 | 1429.66 |
| Ni 231.604 | 27.3785b | ppb | 1.1411 | 4.2 | 72.1393 |
| Pb 220.353 | 47.0307b | ppb | 2.3737 | 5.0 | 67.2127 |
| Sb 206.834 | 1.6625b | ppb | 1.7373 | 104.5 | 5.8478 |
| Se 196.026 | 1.8889b | ppb | 6.7816 | 359.0 | 5.4253 |
| Sn 189.925 | 2.7269b | ppb | 3.1781 | 116.5 | -3.5716 |
| Sr 216.596 | 980.895b | ppb | 25.6573 | 2.6 | 10802.0 |
| Ti 334.941 | 2084.60b | ppb | 52.7505 | 2.5 | 578421 |
| Tl 190.794 | -0.8231b | ppb | 1.8027 | 219.0 | -4.0676 |
| V 292.401 | 25.4081b | ppb | 0.8452 | 3.3 | 675.768 |
| Zn 206.200 | 1053.07b | ppb | 30.5061 | 2.9 | 950.139 |

**680-106162-a-4-b (Samp)** **10/15/2014, 12:55:23 PM** **Rack 1, Tube 33**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 2.8690 | 2.8705 | 2.7302 |
| Al 308.215 | 29655.8 | 28963.7 | 28279.1 |
| As 188.980 | 11.1197 | 10.2029 | 7.0766 |
| B 249.678 | 499.878 | 491.973 | 484.536 |
| Ba 389.178 | 391.850 | 384.728 | 376.367 |
| Be 313.042 | 0.3068 | 0.3000 | 0.2973 |
| Ca 370.602 | 156422 | 152934 | 149024 |
| Cd 226.502 | 18.0577 | 17.7847 | 17.5453 |
| Co 228.615 | 13.9768 | 14.8765 | 14.4521 |
| Cr 267.716 | 201.091 | 196.581 | 192.306 |
| Cu 324.754 | 437.324 | 429.680 | 418.639 |
| Fe 271.441 | 7619.42 | 7462.35 | 7309.83 |
| K 766.491 | 152497x | 149812x | 151321x |
| Mg 279.078 | 51473.8 | 50291.5 | 49164.3 |
| Mn 257.610 | 19034.0 | 18658.4 | 18258.0 |
| Mo 202.032 | 42.9491 | 42.9024 | 41.9824 |
| Na 330.237 | 64710.1 | 62962.2 | 61770.6 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 33.2751 | 33.1518 | 34.0708 |
| Pb 220.353 | 63.4871 | 59.2215 | 60.4819 |
| Sb 206.834 | 0.9382 | 1.9951 | -0.1323 |
| Se 196.026 | 3.4786 | 13.7172 | 1.0762 |
| Sn 189.925 | 5.9958 | 5.4296 | 7.0788 |
| Sr 216.596 | 808.231 | 788.282 | 777.081 |
| Ti 334.941 | 508.254 | 497.532 | 486.689 |
| Tl 190.794 | 0.1424 | 5.9089 | 0.3226 |
| V 292.401 | 14.6411 | 13.9891 | 14.0540 |
| Zn 206.200 | 2651.95 | 2596.90 | 2540.74 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 2.8233b | ppb | 0.0806 | 2.9 | 268.782 |
| Al 308.215 | 28966.2b | ppb | 688.306 | 2.4 | 192089 |
| As 188.980 | 9.4664b | ppb | 2.1198 | 22.4 | 2.8623 |
| B 249.678 | 492.129b | ppb | 7.6723 | 1.6 | 7461.72 |
| Ba 389.178 | 384.315b | ppb | 7.7499 | 2.0 | 7811.20 |
| Be 313.042 | 0.3014b | ppb | 0.0049 | 1.6 | 199.034 |
| Ca 370.602 | 152793b | ppb | 3701 | 2.4 | 353707 |
| Cd 226.502 | 17.7959b | ppb | 0.2564 | 1.4 | 706.084 |
| Co 228.615 | 14.4351b | ppb | 0.4501 | 3.1 | 162.956 |
| Cr 267.716 | 196.660b | ppb | 4.3933 | 2.2 | 9878.06 |
| Cu 324.754 | 428.548b | ppb | 9.3936 | 2.2 | 30311.2 |
| Fe 271.441 | 7463.87b | ppb | 154.805 | 2.1 | 10520.0 |
| K 766.491 | 151210xb | ppb | 1346.03 | 0.9 | 6468798 |
| Mg 279.078 | 50309.9b | ppb | 1154.86 | 2.3 | 121894 |
| Mn 257.610 | 18650.2b | ppb | 388.092 | 2.1 | 3857128 |
| Mo 202.032 | 42.6113b | ppb | 0.5452 | 1.3 | 269.637 |
| Na 330.237 | 63147.6b | ppb | 1478.54 | 2.3 | 2973.77 |
| Ni 231.604 | 33.4992b | ppb | 0.4988 | 1.5 | 88.5699 |
| Pb 220.353 | 61.0635b | ppb | 2.1915 | 3.6 | 89.9949 |
| Sb 206.834 | 0.9337b | ppb | 1.0637 | 113.9 | 3.9611 |
| Se 196.026 | 6.0907b | ppb | 6.7131 | 110.2 | 8.7162 |
| Sn 189.925 | 6.1680b | ppb | 0.8380 | 13.6 | -1.2999 |
| Sr 216.596 | 791.198b | ppb | 15.7783 | 2.0 | 8706.06 |
| Ti 334.941 | 497.492b | ppb | 10.7825 | 2.2 | 138065 |
| Tl 190.794 | 2.1246b | ppb | 3.2785 | 154.3 | 3.6116 |
| V 292.401 | 14.2281b | ppb | 0.3592 | 2.5 | 356.444 |
| Zn 206.200 | 2596.53b | ppb | 55.6038 | 2.1 | 2342.93 |

**640-49347-q-1-a (Samp)** **10/15/2014, 12:59:39 PM** **Rack 1, Tube 34**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1817 | -0.2011u | -0.1926u |
| Al 308.215 | 10.8113 | 10.2118 | 9.9144 |
| As 188.980 | -0.5428u | -4.6021u | 2.7862 |
| B 249.678 | 40.1749 | 39.1942 | 37.8969 |
| Ba 389.178 | 6.0057 | 5.6546 | 5.3387 |
| Be 313.042 | 0.0141 | 0.0194 | 0.0201 |
| Ca 370.602 | 1201 | 1196 | 1197 |
| Cd 226.502 | -0.1054u | -0.0155u | -0.0681u |
| Co 228.615 | 0.3182 | 0.0138 | -0.2262u |
| Cr 267.716 | 0.0286 | 0.0643 | -0.1841u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | -0.2448u | -0.0440u | -0.0527u |
| Fe 271.441 | 73.0067 | 65.2474 | 70.2426 |
| K 766.491 | 895.174 | 890.835 | 888.236 |
| Mg 279.078 | 3080.89 | 3036.44 | 3017.02 |
| Mn 257.610 | 3.5984 | 3.5958 | 3.6689 |
| Mo 202.032 | 0.0024 | -0.1811u | -0.0457u |
| Na 330.237 | 23457.4 | 23071.4 | 23013.9 |
| Ni 231.604 | 1.3450 | 0.2791 | -0.1771u |
| Pb 220.353 | -0.0639u | 1.3400 | 1.4763 |
| Sb 206.834 | 0.0679 | 1.0461 | 0.8234 |
| Se 196.026 | 5.5782 | 5.9368 | 10.9703 |
| Sn 189.925 | 3.5033 | 1.8228 | 0.7539 |
| Sr 216.596 | 19.8274 | 19.3680 | 19.2273 |
| Ti 334.941 | 0.1818 | 0.1956 | 0.1951 |
| Tl 190.794 | -2.4501u | 0.1626 | 1.4909 |
| V 292.401 | -0.0304u | -0.0876u | -0.1439u |
| Zn 206.200 | -0.1622u | -0.8851u | -0.1582u |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0707 | ppb | 0.2186 | 309.3 | -16.5641 |
| Al 308.215 | 10.3125 | ppb | 0.4568 | 4.4 | 462.710 |
| As 188.980 | -0.7862 | ppb | 3.7002 | 470.6 | -2.8340 |
| B 249.678 | 39.0887 | ppb | 1.1427 | 2.9 | 626.404 |
| Ba 389.178 | 5.6663 | ppb | 0.3337 | 5.9 | 68.0332 |
| Be 313.042 | 0.0178 | ppb | 0.0033 | 18.4 | -290.090 |
| Ca 370.602 | 1198 | ppb | 2.680 | 0.2 | 2781 |
| Cd 226.502 | -0.0630 | ppb | 0.0452 | 71.7 | 10.9950 |
| Co 228.615 | 0.0353 | ppb | 0.2728 | 773.6 | 3.5272 |
| Cr 267.716 | -0.0304 | ppb | 0.1343 | 441.9 | 30.0973 |
| Cu 324.754 | -0.1139 | ppb | 0.1135 | 99.7 | 241.934 |
| Fe 271.441 | 69.4989 | ppb | 3.9327 | 5.7 | 104.706 |
| K 766.491 | 891.415 | ppb | 3.5051 | 0.4 | 38458.2 |
| Mg 279.078 | 3044.78 | ppb | 32.7464 | 1.1 | 7416.18 |
| Mn 257.610 | 3.6210 | ppb | 0.0414 | 1.1 | 811.819 |
| Mo 202.032 | -0.0748 | ppb | 0.0951 | 127.2 | 5.8099 |
| Na 330.237 | 23180.9 | ppb | 241.196 | 1.0 | 1130.23 |
| Ni 231.604 | 0.4823 | ppb | 0.7811 | 161.9 | -3.4356 |
| Pb 220.353 | 0.9175 | ppb | 0.8526 | 92.9 | 1.7404 |
| Sb 206.834 | 0.6458 | ppb | 0.5127 | 79.4 | 1.9787 |
| Se 196.026 | 7.4951 | ppb | 3.0149 | 40.2 | 5.6270 |
| Sn 189.925 | 2.0267 | ppb | 1.3860 | 68.4 | -4.0338 |
| Sr 216.596 | 19.4742 | ppb | 0.3139 | 1.6 | 215.634 |
| Ti 334.941 | 0.1909 | ppb | 0.0078 | 4.1 | -5.5863 |
| Tl 190.794 | -0.2655 | ppb | 2.0051 | 755.1 | -6.2275 |
| V 292.401 | -0.0873 | ppb | 0.0568 | 65.0 | -9.4612 |
| Zn 206.200 | -0.4018 | ppb | 0.4185 | 104.2 | 0.8416 |

**640-49347-q-2-a (Samp)** **10/15/2014, 1:03:56 PM** **Rack 1, Tube 35**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0019 | 0.1295 | 0.0899 |
| Al 308.215 | 7.9545 | 7.9134 | 10.4052 |
| As 188.980 | 2.8600 | 5.7946 | 2.5131 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 7.2660 | 7.1511 | 7.2293 |
| Ba 389.178 | 1.7213 | 1.1286 | 1.4296 |
| Be 313.042 | 0.0247 | 0.0134 | 0.0196 |
| Ca 370.602 | 375.9 | 374.8 | 380.9 |
| Cd 226.502 | -0.1718u | -0.2361u | -0.0320u |
| Co 228.615 | 0.0113 | -0.2564u | -0.2849u |
| Cr 267.716 | 0.1830 | 0.0740 | 0.0272 |
| Cu 324.754 | -0.3050u | -0.1848u | 0.0133 |
| Fe 271.441 | 44.8157 | 46.1017 | 51.3297 |
| K 766.491 | 45.2266 | 44.8379 | 45.9145 |
| Mg 279.078 | 156.414 | 155.243 | 155.938 |
| Mn 257.610 | 5.0719 | 5.0450 | 5.1332 |
| Mo 202.032 | -0.2746u | -0.5527u | 0.1655 |
| Na 330.237 | 1766.69 | 1810.96 | 1692.26 |
| Ni 231.604 | 0.2237 | 0.4978 | 0.1503 |
| Pb 220.353 | -0.0771u | 1.8096 | -0.1271u |
| Sb 206.834 | 1.4743 | 4.6708 | 0.0856 |
| Se 196.026 | 7.9710 | 1.7352 | 0.3147 |
| Sn 189.925 | 1.1506 | 2.3589 | 1.2948 |
| Sr 216.596 | 1.9348 | 2.2098 | 1.7828 |
| Ti 334.941 | 0.0985 | 0.0905 | 0.1112 |
| Tl 190.794 | 0.0667 | -1.8623u | -3.3334u |
| V 292.401 | -0.2461u | 0.0105 | 0.0141 |
| Zn 206.200 | -0.3304u | 0.3051 | 1.6879 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0738 | ppb | 0.0653 | 88.5 | -4.8042 |
| Al 308.215 | 8.7577 | ppb | 1.4269 | 16.3 | 452.380 |
| As 188.980 | 3.7226 | ppb | 1.8028 | 48.4 | -0.4150 |
| B 249.678 | 7.2155 | ppb | 0.0587 | 0.8 | 144.507 |
| Ba 389.178 | 1.4265 | ppb | 0.2964 | 20.8 | -21.6317 |
| Be 313.042 | 0.0192 | ppb | 0.0056 | 29.2 | -285.790 |
| Ca 370.602 | 377.2 | ppb | 3.284 | 0.9 | 882.8 |
| Cd 226.502 | -0.1467 | ppb | 0.1044 | 71.2 | 7.8832 |
| Co 228.615 | -0.1767 | ppb | 0.1634 | 92.5 | 1.3187 |
| Cr 267.716 | 0.0947 | ppb | 0.0799 | 84.4 | 35.9121 |
| Cu 324.754 | -0.1589 | ppb | 0.1608 | 101.2 | 238.768 |
| Fe 271.441 | 47.4157 | ppb | 3.4501 | 7.3 | 73.5794 |
| K 766.491 | 45.3263 | ppb | 0.5452 | 1.2 | 2264.06 |
| Mg 279.078 | 155.865 | ppb | 0.5889 | 0.4 | 397.510 |
| Mn 257.610 | 5.0833 | ppb | 0.0452 | 0.9 | 1093.16 |
| Mo 202.032 | -0.2206 | ppb | 0.3621 | 164.2 | 4.9085 |
| Na 330.237 | 1756.64 | ppb | 59.9814 | 3.4 | 106.001 |
| Ni 231.604 | 0.2906 | ppb | 0.1831 | 63.0 | -3.9675 |
| Pb 220.353 | 0.5352 | ppb | 1.1040 | 206.3 | 1.1970 |
| Sb 206.834 | 2.0769 | ppb | 2.3512 | 113.2 | 3.8670 |
| Se 196.026 | 3.3403 | ppb | 4.0727 | 121.9 | 4.0275 |
| Sn 189.925 | 1.6014 | ppb | 0.6600 | 41.2 | -4.3194 |
| Sr 216.596 | 1.9758 | ppb | 0.2164 | 11.0 | 24.1512 |
| Ti 334.941 | 0.1001 | ppb | 0.0104 | 10.4 | -33.9792 |
| Tl 190.794 | -1.7097 | ppb | 1.7052 | 99.7 | -7.6369 |
| V 292.401 | -0.0738 | ppb | 0.1492 | 202.1 | -8.9837 |
| Zn 206.200 | 0.5542 | ppb | 1.0320 | 186.2 | 1.7044 |

**CRI (Samp)** **10/15/2014, 1:08:13 PM** **Rack 1, Tube 36**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 10.4791 | 10.9459 | 10.8368 |
| Al 308.215 | 213.810 | 214.976 | 214.537 |
| As 188.980 | 23.2657 | 28.1384 | 26.5749 |
| B 249.678 | 105.020 | 105.687 | 106.202 |
| Ba 389.178 | 10.4261 | 9.9742 | 9.6203 |
| Be 313.042 | 4.2139 | 4.2037 | 4.2211 |
| Ca 370.602 | 516.8 | 520.7 | 527.7 |
| Cd 226.502 | 5.2913 | 5.1756 | 5.2709 |
| Co 228.615 | 10.2526 | 9.9564 | 10.2913 |
| Cr 267.716 | 10.3991 | 10.3640 | 10.5172 |
| Cu 324.754 | 21.6239 | 21.5579 | 21.7049 |
| Fe 271.441 | 48.9817 | 50.0159 | 50.8811 |
| K 766.491 | 1094.52 | 1094.54 | 1094.75 |
| Mg 279.078 | 520.360 | 521.118 | 519.638 |
| Mn 257.610 | 11.2595 | 11.2693 | 11.2517 |
| Mo 202.032 | 10.0784 | 10.6419 | 10.6332 |
| Na 330.237 | 949.203 | 1074.49 | 932.469 |
| Ni 231.604 | 42.6915 | 43.0102 | 42.6947 |
| Pb 220.353 | 11.1779 | 8.4834 | 8.1749 |
| Sb 206.834 | 20.6563 | 23.9583 | 20.6913 |
| Se 196.026 | 20.9259 | 26.1233 | 28.4445 |
| Sn 189.925 | 55.8526 | 51.4130 | 53.7682 |
| Sr 216.596 | 10.3936 | 10.0522 | 10.5406 |
| Ti 334.941 | 10.5077 | 10.5347 | 10.4758 |
| Tl 190.794 | 25.4830 | 29.2187 | 23.1753 |
| V 292.401 | 10.3662 | 10.5803 | 10.5062 |
| Zn 206.200 | 22.2963 | 21.8339 | 23.4174 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 10.7539 | ppb | 0.2442 | 2.3 | 821.005 |
| Al 308.215 | 214.441 | ppb | 0.5892 | 0.3 | 1815.03 |
| As 188.980 | 25.9930 | ppb | 2.4879 | 9.6 | 11.5320 |
| B 249.678 | 105.636 | ppb | 0.5928 | 0.6 | 1632.96 |
| Ba 389.178 | 10.0069 | ppb | 0.4039 | 4.0 | 152.922 |
| Be 313.042 | 4.2129 | ppb | 0.0087 | 0.2 | 6540.64 |
| Ca 370.602 | 521.7 | ppb | 5.533 | 1.1 | 1221 |
| Cd 226.502 | 5.2460 | ppb | 0.0618 | 1.2 | 209.725 |
| Co 228.615 | 10.1668 | ppb | 0.1832 | 1.8 | 108.988 |
| Cr 267.716 | 10.4268 | ppb | 0.0803 | 0.8 | 548.490 |
| Cu 324.754 | 21.6289 | ppb | 0.0736 | 0.3 | 1767.15 |
| Fe 271.441 | 49.9596 | ppb | 0.9510 | 1.9 | 78.3940 |
| K 766.491 | 1094.61 | ppb | 0.1271 | 0.0 | 47150.3 |
| Mg 279.078 | 520.372 | ppb | 0.7401 | 0.1 | 1282.90 |
| Mn 257.610 | 11.2602 | ppb | 0.0088 | 0.1 | 2373.17 |
| Mo 202.032 | 10.4511 | ppb | 0.3228 | 3.1 | 70.9382 |
| Na 330.237 | 985.388 | ppb | 77.6184 | 7.9 | 68.5784 |
| Ni 231.604 | 42.7988 | ppb | 0.1831 | 0.4 | 113.765 |
| Pb 220.353 | 9.2787 | ppb | 1.6520 | 17.8 | 13.6498 |
| Sb 206.834 | 21.7686 | ppb | 1.8964 | 8.7 | 29.7732 |
| Se 196.026 | 25.1646 | ppb | 3.8499 | 15.3 | 12.4313 |
| Sn 189.925 | 53.6779 | ppb | 2.2212 | 4.1 | 29.9199 |
| Sr 216.596 | 10.3288 | ppb | 0.2506 | 2.4 | 114.312 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 10.5061 | ppb | 0.0295 | 0.3 | 2854.19 |
| Tl 190.794 | 25.9590 | ppb | 3.0497 | 11.7 | 19.4245 |
| V 292.401 | 10.4842 | ppb | 0.1087 | 1.0 | 262.705 |
| Zn 206.200 | 22.5159 | ppb | 0.8143 | 3.6 | 21.4908 |

**Cont Calib Verif (CCV)** **10/15/2014, 1:12:29 PM** **Rack 1, Tube 37**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 486.642 | 489.127 | 488.057 |
| Al 308.215 | 4810.25 | 4816.21 | 4764.44 |
| As 188.980 | 460.903 | 456.911 | 461.171 |
| B 249.678 | 483.364 | 485.209 | 486.899 |
| Ba 389.178 | 4837.05 | 4838.46 | 4829.80 |
| Be 313.042 | 486.048 | 486.759 | 486.134 |
| Ca 370.602 | 4855 | 4871 | 4865 |
| Cd 226.502 | 488.119 | 487.948 | 486.363 |
| Co 228.615 | 495.097 | 494.762 | 494.057 |
| Cr 267.716 | 4853.75 | 4862.54 | 4850.52 |
| Cu 324.754 | 4987.40 | 5055.08 | 5003.79 |
| Fe 271.441 | 4862.24 | 4875.08 | 4859.57 |
| K 766.491 | 10115.9 | 10126.0 | 10136.5 |
| Mg 279.078 | 4856.17 | 4858.67 | 4848.04 |
| Mn 257.610 | 4987.67 | 4999.87 | 4965.83 |
| Mo 202.032 | 488.529 | 488.994 | 489.842 |
| Na 330.237 | 7265.69 | 7410.25 | 7527.91 |
| Ni 231.604 | 2476.85 | 2472.81 | 2469.55 |
| Pb 220.353 | 490.929 | 495.906 | 496.008 |
| Sb 206.834 | 918.866 | 919.349 | 916.369 |
| Se 196.026 | 4833.08 | 4839.05 | 4805.47 |
| Sn 189.925 | 4912.81 | 4909.79 | 4875.66 |
| Sr 216.596 | 2417.06 | 2413.91 | 2407.77 |
| Ti 334.941 | 484.023 | 484.763 | 483.644 |
| Tl 190.794 | 4970.94 | 4975.67 | 4936.88 |
| V 292.401 | 4845.95 | 4850.91 | 4842.23 |
| Zn 206.200 | 2425.48 | 2424.43 | 2415.73 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 487.942 | ppb | 1.2463 | 0.3 | 37685.8 | 97.58842 |
| Al 308.215 | 4796.96 | ppb | 28.3276 | 0.6 | 32643.7 | 95.93927 |
| As 188.980 | 459.662 | ppb | 2.3860 | 0.5 | 244.091 | 91.93237 |
| B 249.678 | 485.158 | ppb | 1.7678 | 0.4 | 7373.66 | 97.03152 |
| Ba 389.178 | 4835.10 | ppb | 4.6424 | 0.1 | 98031.9 | 96.70205 |
| Be 313.042 | 486.314 | ppb | 0.3882 | 0.1 | 791561 | 97.26275 |
| Ca 370.602 | 4864 | ppb | 7.648 | 0.2 | 11515 | 97.27097 |
| Cd 226.502 | 487.476 | ppb | 0.9683 | 0.2 | 18274.1 | 97.49529 |
| Co 228.615 | 494.639 | ppb | 0.5308 | 0.1 | 5159.98 | 98.92773 |
| Cr 267.716 | 4855.60 | ppb | 6.2176 | 0.1 | 240949 | 97.11205 |
| Cu 324.754 | 5015.42 | ppb | 35.3093 | 0.7 | 351967 | 100.30849 |
| Fe 271.441 | 4865.63 | ppb | 8.2905 | 0.2 | 6956.17 | 97.31261 |
| K 766.491 | 10126.1 | ppb | 10.2731 | 0.1 | 433503 | 101.26148 |
| Mg 279.078 | 4854.30 | ppb | 5.5558 | 0.1 | 11719.3 | 97.08591 |
| Mn 257.610 | 4984.46 | ppb | 17.2421 | 0.3 | 1030835 | 99.68911 |
| Mo 202.032 | 489.121 | ppb | 0.6658 | 0.1 | 3028.12 | 97.82428 |

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| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Na 330.237 | 7401.28 | ppb | 131.343 | 1.8 | 314.201 | 98.68376 |
| Ni 231.604 | 2473.07 | ppb | 3.6538 | 0.1 | 6845.33 | 98.92279 |
| Pb 220.353 | 494.281 | ppb | 2.9032 | 0.6 | 708.426 | 98.85616 |
| Sb 206.834 | 918.195 | ppb | 1.5992 | 0.2 | 1256.18 | 91.81947 |
| Se 196.026 | 4825.87 | ppb | 17.9117 | 0.4 | 1861.76 | 96.51736 |
| Sn 189.925 | 4899.42 | ppb | 20.6312 | 0.4 | 3215.92 | 97.98839 |
| Sr 216.596 | 2412.92 | ppb | 4.7226 | 0.2 | 26306.3 | 96.51662 |
| Ti 334.941 | 484.143 | ppb | 0.5690 | 0.1 | 134287 | 96.82864 |
| Tl 190.794 | 4961.16 | ppb | 21.1593 | 0.4 | 4852.44 | 99.22328 |
| V 292.401 | 4846.37 | ppb | 4.3546 | 0.1 | 125325 | 96.92735 |
| Zn 206.200 | 2421.88 | ppb | 5.3516 | 0.2 | 2173.50 | 96.87527 |

**Cont Calib Blank (CCB)** **10/15/2014, 1:16:44 PM** **Rack 1, Tube 38**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0859 | -0.0777u | -0.0583u |
| Al 308.215 | 7.5449 | 7.8629 | 7.1181 |
| As 188.980 | 5.4885 | 3.7147 | 5.7000 |
| B 249.678 | 9.9722 | 8.6085 | 7.9342 |
| Ba 389.178 | 0.3287 | -0.4987u | 0.8297 |
| Be 313.042 | 0.0450 | 0.0454 | 0.0401 |
| Ca 370.602 | -3.153u | 2.315 | 4.066 |
| Cd 226.502 | -0.0877u | -0.0130u | -0.1140u |
| Co 228.615 | 0.1573 | 0.1396 | 0.0023 |
| Cr 267.716 | 0.3907 | 0.4597 | 0.4416 |
| Cu 324.754 | 0.1121 | 0.2758 | 0.3542 |
| Fe 271.441 | -0.1081u | -0.4287u | 1.7863 |
| K 766.491 | 0.0395 | -0.0766u | 0.3650 |
| Mg 279.078 | -2.1682u | -0.1035u | -1.5212u |
| Mn 257.610 | 0.3740 | 0.4688 | 0.4678 |
| Mo 202.032 | 0.9744 | 1.0264 | 0.8215 |
| Na 330.237 | -118.641u | 74.6403 | 41.8115 |
| Ni 231.604 | -0.4322u | -0.2573u | -0.3532u |
| Pb 220.353 | 1.9761 | -0.3967u | 1.7965 |
| Sb 206.834 | 1.3867 | 6.0595 | 5.7653 |
| Se 196.026 | -3.0745u | 1.3012 | 1.4886 |
| Sn 189.925 | -0.7516u | 4.1142 | 3.1119 |
| Sr 216.596 | 0.4963 | 0.3374 | 0.2255 |
| Ti 334.941 | 0.1088 | 0.1090 | 0.1410 |
| Tl 190.794 | 0.8169 | 0.9901 | 1.0367 |
| V 292.401 | 0.4230 | 0.4082 | 0.7968 |
| Zn 206.200 | -0.2655u | -0.3436u | -0.4644u |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | -0.0167 | ppb | 0.0894 | 536.0 | -11.7531 | -0.01668 |
| Al 308.215 | 7.5086 | ppb | 0.3737 | 5.0 | 444.146 | 7.50863 |
| As 188.980 | 4.9677 | ppb | 1.0903 | 21.9 | 0.2530 | 4.96773 |
| B 249.678 | 8.8383 | ppb | 1.0383 | 11.7 | 169.179 | 8.83831 |
| Ba 389.178 | 0.2199 | ppb | 0.6708 | 305.0 | -46.3214 | 0.21991 |
| Be 313.042 | 0.0435 | ppb | 0.0030 | 6.8 | -246.363 | 0.04348 |
| Ca 370.602 | 1.076 | ppb | 3.766 | 350.0 | 13.70 | 1.07599 |
| Cd 226.502 | -0.0716 | ppb | 0.0524 | 73.2 | 10.5123 | -0.07161 |
| Co 228.615 | 0.0997 | ppb | 0.0849 | 85.1 | 4.1685 | 0.09973 |

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| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Cr 267.716 | 0.4307 | ppb | 0.0358 | 8.3 | 52.4963 | 0.43066 |
| Cu 324.754 | 0.2474 | ppb | 0.1235 | 49.9 | 267.271 | 0.24738 |
| Fe 271.441 | 0.4165 | ppb | 1.1971 | 287.4 | 7.4339 | 0.41650 |
| K 766.491 | 0.1093 | ppb | 0.2289 | 209.4 | 329.759 | 0.10932 |
| Mg 279.078 | -1.2643 | ppb | 1.0561 | 83.5 | 15.8494 | -1.26432 |
| Mn 257.610 | 0.4369 | ppb | 0.0544 | 12.5 | 131.018 | 0.43686 |
| Mo 202.032 | 0.9408 | ppb | 0.1065 | 11.3 | 12.0970 | 0.94076 |
| Na 330.237 | -0.7296 | ppb | 103.425 | 14175.1 | 22.0214 | -0.72962 |
| Ni 231.604 | -0.3476 | ppb | 0.0876 | 25.2 | -5.7402 | -0.34757 |
| Pb 220.353 | 1.1253 | ppb | 1.3211 | 117.4 | 2.0397 | 1.12534 |
| Sb 206.834 | 4.4039 | ppb | 2.6171 | 59.4 | 6.9178 | 4.40387 |
| Se 196.026 | -0.0949 | ppb | 2.5821 | 2721.3 | 2.7036 | -0.09488 |
| Sn 189.925 | 2.1582 | ppb | 2.5693 | 119.0 | -3.9539 | 2.15820 |
| Sr 216.596 | 0.3531 | ppb | 0.1361 | 38.5 | 6.2378 | 0.35309 |
| Ti 334.941 | 0.1196 | ppb | 0.0185 | 15.5 | -28.6839 | 0.11961 |
| Tl 190.794 | 0.9479 | ppb | 0.1158 | 12.2 | -5.0363 | 0.94791 |
| V 292.401 | 0.5427 | ppb | 0.2202 | 40.6 | 6.8050 | 0.54268 |
| Zn 206.200 | -0.3578 | ppb | 0.1002 | 28.0 | 0.8828 | -0.35782 |

**680-106108-a-38-a (Samp)** **10/15/2014, 1:20:59 PM** **Rack 1, Tube 39**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.5635u | -0.3313u | -0.5582u |
| Al 308.215 | 9906.77 | 9813.61 | 9743.15 |
| As 188.980 | 8.8219 | -3.1674u | 5.8152 |
| B 249.678 | 4.8576 | 4.8184 | 4.5298 |
| Ba 389.178 | 137.635 | 137.398 | 136.082 |
| Be 313.042 | 0.2302 | 0.2241 | 0.2250 |
| Ca 370.602 | 2540 | 2513 | 2493 |
| Cd 226.502 | -0.2483 | -0.2971 | -0.3725 |
| Co 228.615 | 8.3867 | 9.3711 | 8.1184 |
| Cr 267.716 | 29.5982 | 29.0121 | 29.1044 |
| Cu 324.754 | 31.9852 | 31.6310 | 31.4313 |
| Fe 271.441 | 17550.5 | 17356.4 | 17237.6 |
| K 766.491 | 7950.84 | 7874.09 | 7849.66 |
| Mg 279.078 | 7407.84 | 7340.30 | 7284.89 |
| Mn 257.610 | 324.441 | 320.902 | 318.936 |
| Mo 202.032 | 0.0016u | 0.8193 | 0.7831 |
| Na 330.237 | -49.5601u | 109.762u | -27.5951u |
| Ni 231.604 | 14.4996 | 15.0938 | 15.3355 |
| Pb 220.353 | 2.7391 | 4.1486 | 5.2612 |
| Sb 206.834 | 3.3100 | 0.7785 | 0.8414 |
| Se 196.026 | -2.3235u | 2.1274 | 3.8998 |
| Sn 189.925 | 0.0103 | 2.8477 | 3.2938 |
| Sr 216.596 | 5.9664 | 6.2884 | 5.7229 |
| Ti 334.941 | 1357.92 | 1344.40 | 1336.56 |
| Tl 190.794 | 2.4760 | 1.3813u | 0.7079u |
| V 292.401 | 43.8856 | 43.0751 | 42.9335 |
| Zn 206.200 | 39.0015 | 35.5350 | 37.9799 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.4844 | ppb | 0.1326 | 27.4 | -49.2892 |
| Al 308.215 | 9821.18 | ppb | 82.0739 | 0.8 | 65417.5 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 3.8232 | ppb | 6.2380 | 163.2 | -0.3695 |
| B 249.678 | 4.7353 | ppb | 0.1790 | 3.8 | 70.7329 |
| Ba 389.178 | 137.038 | ppb | 0.8369 | 0.6 | 2746.59 |
| Be 313.042 | 0.2264 | ppb | 0.0033 | 1.5 | 54.0242 |
| Ca 370.602 | 2515 | ppb | 23.99 | 1.0 | 6143 |
| Cd 226.502 | -0.3060 | ppb | 0.0626 | 20.5 | 63.8066 |
| Co 228.615 | 8.6254 | ppb | 0.6596 | 7.6 | 119.902 |
| Cr 267.716 | 29.2383 | ppb | 0.3152 | 1.1 | 1493.34 |
| Cu 324.754 | 31.6825 | ppb | 0.2805 | 0.9 | 2478.57 |
| Fe 271.441 | 17381.5 | ppb | 157.959 | 0.9 | 24486.0 |
| K 766.491 | 7891.53 | ppb | 52.7945 | 0.7 | 337910 |
| Mg 279.078 | 7344.34 | ppb | 61.5717 | 0.8 | 17852.8 |
| Mn 257.610 | 321.426 | ppb | 2.7896 | 0.9 | 66612.0 |
| Mo 202.032 | 0.5347 | ppb | 0.4620 | 86.4 | 8.8008 |
| Na 330.237 | 10.8690 | ppb | 86.3453 | 794.4 | 14.8642 |
| Ni 231.604 | 14.9763 | ppb | 0.4302 | 2.9 | 38.0135 |
| Pb 220.353 | 4.0496 | ppb | 1.2640 | 31.2 | 4.4969 |
| Sb 206.834 | 1.6433 | ppb | 1.4437 | 87.9 | 4.1094 |
| Se 196.026 | 1.2346 | ppb | 3.2063 | 259.7 | 3.4084 |
| Sn 189.925 | 2.0506 | ppb | 1.7810 | 86.8 | -4.0246 |
| Sr 216.596 | 5.9926 | ppb | 0.2837 | 4.7 | 86.9934 |
| Ti 334.941 | 1346.29 | ppb | 10.8039 | 0.8 | 373524 |
| Tl 190.794 | 1.5217 | ppb | 0.8924 | 58.6 | -6.3200 |
| V 292.401 | 43.2981 | ppb | 0.5137 | 1.2 | 1139.93 |
| Zn 206.200 | 37.5054 | ppb | 1.7813 | 4.7 | 34.3053 |

**680-106108-a-38-aSD (Samp)** **10/15/2014, 1:25:14 PM** **Rack 1, Tube 40**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1848u | 0.0306 | -0.0806u |
| Al 308.215 | 2162.59 | 2090.91 | 1964.89 |
| As 188.980 | 5.6158 | 1.9013 | 3.7692 |
| B 249.678 | 2.2283 | 2.3672 | 2.2001 |
| Ba 389.178 | 30.4983 | 28.9300 | 27.0660 |
| Be 313.042 | 0.0746 | 0.0619 | 0.0636 |
| Ca 370.602 | 566.9 | 547.5 | 514.5 |
| Cd 226.502 | -0.1524 | -0.0913 | 0.0139 |
| Co 228.615 | 2.0734 | 1.6210 | 1.6008 |
| Cr 267.716 | 6.5096 | 6.2329 | 5.8438 |
| Cu 324.754 | 7.0611 | 6.7718 | 6.5499 |
| Fe 271.441 | 3888.70 | 3756.68 | 3537.90 |
| K 766.491 | 1790.83 | 1749.42 | 1649.12 |
| Mg 279.078 | 1639.12 | 1578.66 | 1485.37 |
| Mn 257.610 | 71.3291 | 68.8782 | 64.7914 |
| Mo 202.032 | 0.1851 | 0.0706 | -0.3134u |
| Na 330.237 | 128.677 | 163.061 | 5.8285u |
| Ni 231.604 | 3.8865 | 3.6591 | 2.6368 |
| Pb 220.353 | 3.0075 | 1.8726 | 2.7477 |
| Sb 206.834 | -2.2405u | 2.5117 | 2.9852 |
| Se 196.026 | 6.8414 | 1.1959 | 7.9823 |
| Sn 189.925 | 3.0516 | 1.4744 | 0.3812 |
| Sr 216.596 | 1.4969 | 1.0950 | 0.7294 |
| Ti 334.941 | 298.063 | 289.088 | 274.562 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 2.5839 | 2.2694 | 0.1637u |
| V 292.401 | 9.6209 | 9.1119 | 9.0311 |
| Zn 206.200 | 9.6984 | 7.0028 | 6.5187 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0783 | ppb | 0.1077 | 137.6 | -16.8094 |
| Al 308.215 | 2072.80 | ppb | 100.087 | 4.8 | 14117.8 |
| As 188.980 | 3.7621 | ppb | 1.8573 | 49.4 | -0.3958 |
| B 249.678 | 2.2652 | ppb | 0.0894 | 3.9 | 61.9420 |
| Ba 389.178 | 28.8315 | ppb | 1.7183 | 6.0 | 537.821 |
| Be 313.042 | 0.0667 | ppb | 0.0069 | 10.4 | -207.914 |
| Ca 370.602 | 543.0 | ppb | 26.50 | 4.9 | 1334 |
| Cd 226.502 | -0.0766 | ppb | 0.0841 | 109.8 | 23.6472 |
| Co 228.615 | 1.7651 | ppb | 0.2672 | 15.1 | 27.2795 |
| Cr 267.716 | 6.1954 | ppb | 0.3345 | 5.4 | 340.990 |
| Cu 324.754 | 6.7943 | ppb | 0.2563 | 3.8 | 727.828 |
| Fe 271.441 | 3727.76 | ppb | 177.178 | 4.8 | 5256.79 |
| K 766.491 | 1729.79 | ppb | 72.8689 | 4.2 | 74322.3 |
| Mg 279.078 | 1567.72 | ppb | 77.4562 | 4.9 | 3825.75 |
| Mn 257.610 | 68.3329 | ppb | 3.3028 | 4.8 | 14193.4 |
| Mo 202.032 | -0.0192 | ppb | 0.2611 | 1356.5 | 5.9885 |
| Na 330.237 | 99.1889 | ppb | 82.6601 | 83.3 | 25.1560 |
| Ni 231.604 | 3.3942 | ppb | 0.6656 | 19.6 | 4.9055 |
| Pb 220.353 | 2.5426 | ppb | 0.5946 | 23.4 | 3.6950 |
| Sb 206.834 | 1.0855 | ppb | 2.8901 | 266.2 | 2.7318 |
| Se 196.026 | 5.3399 | ppb | 3.6338 | 68.1 | 4.8373 |
| Sn 189.925 | 1.6357 | ppb | 1.3425 | 82.1 | -4.2974 |
| Sr 216.596 | 1.1071 | ppb | 0.3839 | 34.7 | 18.5819 |
| Ti 334.941 | 287.237 | ppb | 11.8593 | 4.1 | 79644.3 |
| Tl 190.794 | 1.6723 | ppb | 1.3159 | 78.7 | -4.7233 |
| V 292.401 | 9.2546 | ppb | 0.3198 | 3.5 | 238.091 |
| Zn 206.200 | 7.7400 | ppb | 1.7133 | 22.1 | 8.0314 |

**680-106108-a-38-aPDS (Samp)** **10/15/2014, 1:29:30 PM** **Rack 1, Tube 41**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 99.8823 | 93.4789 | 87.7176 |
| Al 308.215 | 11988.2 | 11189.5 | 10616.5 |
| As 188.980 | 118.574 | 111.617 | 105.589 |
| B 249.678 | 208.057 | 196.100 | 187.307 |
| Ba 389.178 | 237.416 | 222.684 | 211.395 |
| Be 313.042 | 106.144 | 99.1972 | 94.1115 |
| Ca 370.602 | 12964 | 12172 | 11551 |
| Cd 226.502 | 103.979 | 97.2623 | 92.3520 |
| Co 228.615 | 113.646 | 107.807 | 101.832 |
| Cr 267.716 | 135.842 | 127.664 | 121.447 |
| Cu 324.754 | 145.913 | 137.017 | 128.134 |
| Fe 271.441 | 29513.9 | 27590.3 | 26183.9 |
| K 766.491 | 18712.2 | 17639.6 | 16807.5 |
| Mg 279.078 | 18565.8 | 17382.2 | 16496.3 |
| Mn 257.610 | 1451.25 | 1357.92 | 1289.93 |
| Mo 202.032 | 105.087 | 97.8082 | 93.8015 |
| Na 330.237 | 9209.72 | 8643.50 | 8225.24 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 123.618 | 113.601 | 109.646 |
| Pb 220.353 | 109.947 | 99.6326 | 98.0746 |
| Sb 206.834 | 104.394 | 98.7217 | 93.7756 |
| Se 196.026 | 107.838 | 106.449 | 91.9583 |
| Sn 189.925 | 105.051 | 97.2188 | 96.7078 |
| Sr 216.596 | 111.731 | 102.774 | 98.8047 |
| Ti 334.941 | 1583.33 | 1479.82 | 1406.24 |
| Tl 190.794 | 18.7752 | 17.0324 | 18.6075 |
| V 292.401 | 153.329 | 143.164 | 136.240 |
| Zn 206.200 | 142.841 | 130.994 | 127.853 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 93.6929 | ppb | 6.0852 | 6.5 | 7234.68 |
| Al 308.215 | 11264.7 | ppb | 688.974 | 6.1 | 75002.1 |
| As 188.980 | 111.927 | ppb | 6.4982 | 5.8 | 57.5607 |
| B 249.678 | 197.155 | ppb | 10.4148 | 5.3 | 2959.80 |
| Ba 389.178 | 223.832 | ppb | 13.0480 | 5.8 | 4525.55 |
| Be 313.042 | 99.8176 | ppb | 6.0402 | 6.1 | 162179 |
| Ca 370.602 | 12229 | ppb | 708.2 | 5.8 | 28570 |
| Cd 226.502 | 97.8646 | ppb | 5.8370 | 6.0 | 3774.95 |
| Co 228.615 | 107.762 | ppb | 5.9075 | 5.5 | 1153.68 |
| Cr 267.716 | 128.318 | ppb | 7.2200 | 5.6 | 6417.58 |
| Cu 324.754 | 137.021 | ppb | 8.8892 | 6.5 | 9873.34 |
| Fe 271.441 | 27762.7 | ppb | 1671.71 | 6.0 | 39117.1 |
| K 766.491 | 17719.8 | ppb | 954.886 | 5.4 | 758345 |
| Mg 279.078 | 17481.4 | ppb | 1038.31 | 5.9 | 42461.3 |
| Mn 257.610 | 1366.37 | ppb | 80.9896 | 5.9 | 282801 |
| Mo 202.032 | 98.8989 | ppb | 5.7212 | 5.8 | 616.969 |
| Na 330.237 | 8692.82 | ppb | 494.089 | 5.7 | 424.796 |
| Ni 231.604 | 115.622 | ppb | 7.2022 | 6.2 | 317.394 |
| Pb 220.353 | 102.551 | ppb | 6.4521 | 6.3 | 144.358 |
| Sb 206.834 | 98.9637 | ppb | 5.3131 | 5.4 | 132.252 |
| Se 196.026 | 102.082 | ppb | 8.7948 | 8.6 | 42.5150 |
| Sn 189.925 | 99.6592 | ppb | 4.6764 | 4.7 | 60.1541 |
| Sr 216.596 | 104.437 | ppb | 6.6216 | 6.3 | 1173.51 |
| Ti 334.941 | 1489.80 | ppb | 88.9619 | 6.0 | 413362 |
| Tl 190.794 | 18.1384 | ppb | 0.9614 | 5.3 | 9.2652 |
| V 292.401 | 144.244 | ppb | 8.5956 | 6.0 | 3742.30 |
| Zn 206.200 | 133.896 | ppb | 7.9042 | 5.9 | 120.614 |

**680-106108-a-38-b ms (Samp)** **10/15/2014, 1:33:45 PM** **Rack 1, Tube 42**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 5.7821 | 5.3509 | 5.2575 |
| Al 308.215 | 13419.6 | 13130.4 | 12859.9 |
| As 188.980 | 17.1935 | 17.0327 | 18.7677 |
| B 249.678 | 25.9163 | 24.8893 | 25.0544 |
| Ba 389.178 | 193.415 | 190.187 | 185.656 |
| Be 313.042 | 5.9692 | 5.8366 | 5.7030 |
| Ca 370.602 | 2946 | 2867 | 2798 |
| Cd 226.502 | 5.0919 | 4.9456 | 4.9088 |
| Co 228.615 | 15.7509 | 15.6483 | 15.2023 |
| Cr 267.716 | 52.2008 | 51.0730 | 50.0201 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 37.2874 | 35.8666 | 35.4815 |
| Fe 271.441 | 23458.7 | 22981.3 | 22589.2 |
| K 766.491 | 10928.5 | 10704.3 | 10487.1 |
| Mg 279.078 | 10135.2 | 9928.90 | 9702.20 |
| Mn 257.610 | 480.635 | 470.236 | 460.427 |
| Mo 202.032 | 11.4005 | 11.4493 | 11.0395 |
| Na 330.237 | 655.636 | 775.457 | 530.456 |
| Ni 231.604 | 32.1086 | 31.2962 | 29.9191 |
| Pb 220.353 | 59.7637 | 58.1223 | 59.0208 |
| Sb 206.834 | 4.5733 | 6.3236 | 2.7591 |
| Se 196.026 | 14.0558 | 13.7614 | 12.9098 |
| Sn 189.925 | 23.0521 | 23.4164 | 22.1992 |
| Sr 216.596 | 18.3613 | 17.6093 | 17.9004 |
| Ti 334.941 | 1818.18 | 1779.92 | 1743.86 |
| Tl 190.794 | 0.7382u | 3.3089 | 6.1618 |
| V 292.401 | 67.9887 | 66.2059 | 65.1667 |
| Zn 206.200 | 58.6905 | 59.1409 | 56.1253 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 5.4635 | ppb | 0.2799 | 5.1 | 410.193 |
| Al 308.215 | 13136.6 | ppb | 279.926 | 2.1 | 87369.1 |
| As 188.980 | 17.6646 | ppb | 0.9586 | 5.4 | 7.0520 |
| B 249.678 | 25.2867 | ppb | 0.5515 | 2.2 | 369.749 |
| Ba 389.178 | 189.753 | ppb | 3.8978 | 2.1 | 3821.88 |
| Be 313.042 | 5.8363 | ppb | 0.1331 | 2.3 | 9186.38 |
| Ca 370.602 | 2870 | ppb | 73.91 | 2.6 | 7067 |
| Cd 226.502 | 4.9821 | ppb | 0.0969 | 1.9 | 281.826 |
| Co 228.615 | 15.5338 | ppb | 0.2917 | 1.9 | 200.316 |
| Cr 267.716 | 51.0980 | ppb | 1.0906 | 2.1 | 2581.82 |
| Cu 324.754 | 36.2118 | ppb | 0.9512 | 2.6 | 2798.65 |
| Fe 271.441 | 23009.7 | ppb | 435.458 | 1.9 | 32413.0 |
| K 766.491 | 10706.6 | ppb | 220.710 | 2.1 | 458335 |
| Mg 279.078 | 9922.09 | ppb | 216.556 | 2.2 | 24111.6 |
| Mn 257.610 | 470.433 | ppb | 10.1056 | 2.1 | 97460.2 |
| Mo 202.032 | 11.2964 | ppb | 0.2238 | 2.0 | 75.1354 |
| Na 330.237 | 653.850 | ppb | 122.511 | 18.7 | 42.9276 |
| Ni 231.604 | 31.1079 | ppb | 1.1068 | 3.6 | 83.1146 |
| Pb 220.353 | 58.9689 | ppb | 0.8219 | 1.4 | 82.2557 |
| Sb 206.834 | 4.5520 | ppb | 1.7824 | 39.2 | 8.1804 |
| Se 196.026 | 13.5757 | ppb | 0.5951 | 4.4 | 8.2311 |
| Sn 189.925 | 22.8892 | ppb | 0.6248 | 2.7 | 9.6766 |
| Sr 216.596 | 17.9570 | ppb | 0.3792 | 2.1 | 223.375 |
| Ti 334.941 | 1780.65 | ppb | 37.1676 | 2.1 | 494056 |
| Tl 190.794 | 3.4029 | ppb | 2.7130 | 79.7 | -5.0664 |
| V 292.401 | 66.4538 | ppb | 1.4272 | 2.1 | 1745.93 |
| Zn 206.200 | 57.9856 | ppb | 1.6267 | 2.8 | 52.5108 |

**680-106108-a-38-c ms (Samp)** **10/15/2014, 1:38:01 PM** **Rack 1, Tube 43**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 5.0961 | 5.1669 | 5.2553 |
| Al 308.215 | 14243.2 | 14115.4 | 13986.0 |
| As 188.980 | 12.7415 | 19.5903 | 13.8181 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 23.2396 | 23.5807 | 23.2712 |
| Ba 389.178 | 203.916 | 202.096 | 199.958 |
| Be 313.042 | 5.8728 | 5.8087 | 5.7637 |
| Ca 370.602 | 2934 | 2906 | 2879 |
| Cd 226.502 | 4.9919 | 4.9085 | 4.8374 |
| Co 228.615 | 17.8192 | 17.1214 | 17.3683 |
| Cr 267.716 | 52.3499 | 51.9725 | 51.4657 |
| Cu 324.754 | 46.5768 | 46.1186 | 46.0671 |
| Fe 271.441 | 25300.7 | 25104.0 | 24896.4 |
| K 766.491 | 11552.1 | 11369.7 | 11228.0 |
| Mg 279.078 | 10640.9 | 10558.5 | 10457.2 |
| Mn 257.610 | 492.263 | 487.294 | 483.323 |
| Mo 202.032 | 11.0880 | 11.1622 | 10.4286 |
| Na 330.237 | 683.585 | 729.682 | 718.608 |
| Ni 231.604 | 33.7164 | 33.6456 | 33.0961 |
| Pb 220.353 | 60.5693 | 56.6999 | 57.7686 |
| Sb 206.834 | 2.5032 | 1.1854 | 2.3579 |
| Se 196.026 | 14.0490 | 13.7520 | 18.3658 |
| Sn 189.925 | 20.9400 | 26.1317 | 20.9686 |
| Sr 216.596 | 18.3305 | 17.7597 | 17.7791 |
| Ti 334.941 | 1912.06 | 1889.33 | 1869.18 |
| Tl 190.794 | 1.4607u | 4.1825 | 4.8224 |
| V 292.401 | 71.8935 | 70.5954 | 70.2561 |
| Zn 206.200 | 61.7313 | 60.9962 | 63.6637 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 5.1728 | ppb | 0.0797 | 1.5 | 387.479 |
| Al 308.215 | 14114.9 | ppb | 128.584 | 0.9 | 93846.5 |
| As 188.980 | 15.3833 | ppb | 3.6829 | 23.9 | 5.8255 |
| B 249.678 | 23.3639 | ppb | 0.1885 | 0.8 | 336.246 |
| Ba 389.178 | 201.990 | ppb | 1.9810 | 1.0 | 4071.92 |
| Be 313.042 | 5.8151 | ppb | 0.0549 | 0.9 | 9152.12 |
| Ca 370.602 | 2906 | ppb | 27.42 | 0.9 | 7170 |
| Cd 226.502 | 4.9126 | ppb | 0.0773 | 1.6 | 286.705 |
| Co 228.615 | 17.4363 | ppb | 0.3538 | 2.0 | 222.437 |
| Cr 267.716 | 51.9294 | ppb | 0.4437 | 0.9 | 2624.25 |
| Cu 324.754 | 46.2542 | ppb | 0.2806 | 0.6 | 3503.77 |
| Fe 271.441 | 25100.4 | ppb | 202.134 | 0.8 | 35357.4 |
| K 766.491 | 11383.2 | ppb | 162.473 | 1.4 | 487279 |
| Mg 279.078 | 10552.2 | ppb | 91.9997 | 0.9 | 25641.7 |
| Mn 257.610 | 487.627 | ppb | 4.4795 | 0.9 | 101026 |
| Mo 202.032 | 10.8929 | ppb | 0.4038 | 3.7 | 72.5447 |
| Na 330.237 | 710.625 | ppb | 24.0631 | 3.4 | 44.8191 |
| Ni 231.604 | 33.4860 | ppb | 0.3396 | 1.0 | 89.8573 |
| Pb 220.353 | 58.3460 | ppb | 1.9983 | 3.4 | 81.1804 |
| Sb 206.834 | 2.0155 | ppb | 0.7225 | 35.8 | 4.9144 |
| Se 196.026 | 15.3890 | ppb | 2.5823 | 16.8 | 8.9485 |
| Sn 189.925 | 22.6801 | ppb | 2.9892 | 13.2 | 9.5391 |
| Sr 216.596 | 17.9564 | ppb | 0.3241 | 1.8 | 225.569 |
| Ti 334.941 | 1890.19 | ppb | 21.4566 | 1.1 | 524452 |
| Tl 190.794 | 3.4886 | ppb | 1.7851 | 51.2 | -5.2123 |
| V 292.401 | 70.9150 | ppb | 0.8642 | 1.2 | 1863.98 |
| Zn 206.200 | 62.1304 | ppb | 1.3778 | 2.2 | 56.1678 |

**680-106108-a-43-a (Samp)** **10/15/2014, 1:42:17 PM** **Rack 1, Tube 44**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -4.0993u | -3.8489u | -4.1468u |
| Al 308.215 | 150648 | 150593 | 150912 |
| As 188.980 | 27.4041 | 25.7583 | 24.5917 |
| B 249.678 | 7.5564u | 7.3078u | 7.1748u |
| Ba 389.178 | 2131.66 | 2128.71 | 2136.92 |
| Be 313.042 | 3.8038 | 3.7926 | 3.8123 |
| Ca 370.602 | 21246 | 21227 | 21216 |
| Cd 226.502 | -4.8966 | -5.2252 | -4.8197 |
| Co 228.615 | 125.681 | 125.778 | 125.292 |
| Cr 267.716 | 578.787 | 578.289 | 578.381 |
| Cu 324.754 | 309.213 | 306.808 | 306.182 |
| Fe 271.441 | 258127 | 257597 | 258286 |
| K 766.491 | 111785x | 111658x | 111816x |
| Mg 279.078 | 112139 | 112115 | 112147 |
| Mn 257.610 | 5253.64 | 5264.44 | 5261.36 |
| Mo 202.032 | 4.0819 | 3.8164 | 4.9211 |
| Na 330.237 | 1730.10u | 1455.06u | 1742.17u |
| Ni 231.604 | 251.085 | 246.927 | 249.315 |
| Pb 220.353 | 19.7050 | 19.8798 | 16.6160u |
| Sb 206.834 | 1.9568 | -3.6710 | 6.3868 |
| Se 196.026 | -11.8077u | -4.7597 | 7.4519 |
| Sn 189.925 | 19.7229 | 22.5246 | 22.1326 |
| Sr 216.596 | 65.8392 | 65.9684 | 65.2447 |
| Ti 334.941 | 19233.8 | 19243.9 | 19368.2 |
| Tl 190.794 | 3.0931u | 2.1595u | 8.5131u |
| V 292.401 | 611.775 | 611.654 | 612.761 |
| Zn 206.200 | 559.764 | 559.963 | 570.268 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -4.0317b | ppb | 0.1600 | 4.0 | -339.691 |
| Al 308.215 | 150717b | ppb | 170.446 | 0.1 | 998229 |
| As 188.980 | 25.9180b | ppb | 1.4130 | 5.5 | 11.4111 |
| B 249.678 | 7.3463b | ppb | 0.1937 | 2.6 | -391.561 |
| Ba 389.178 | 2132.43b | ppb | 4.1601 | 0.2 | 43469.1 |
| Be 313.042 | 3.8029b | ppb | 0.0099 | 0.3 | 5904.23 |
| Ca 370.602 | 21230b | ppb | 15.20 | 0.1 | 53519 |
| Cd 226.502 | -4.9805b | ppb | 0.2154 | 4.3 | 745.212 |
| Co 228.615 | 125.584b | ppb | 0.2570 | 0.2 | 1695.34 |
| Cr 267.716 | 578.486b | ppb | 0.2652 | 0.0 | 28905.8 |
| Cu 324.754 | 307.401b | ppb | 1.5997 | 0.5 | 21907.5 |
| Fe 271.441 | 258003b | ppb | 360.748 | 0.1 | 363364 |
| K 766.491 | 111753xb | ppb | 84.1654 | 0.1 | 4780919 |
| Mg 279.078 | 112134b | ppb | 16.4116 | 0.0 | 272301 |
| Mn 257.610 | 5259.81b | ppb | 5.5655 | 0.1 | 1089276 |
| Mo 202.032 | 4.2732b | ppb | 0.5766 | 13.5 | 21.1548 |
| Na 330.237 | 1642.44b | ppb | 162.390 | 9.9 | -11.7550 |
| Ni 231.604 | 249.109b | ppb | 2.0868 | 0.8 | 704.597 |
| Pb 220.353 | 18.7336b | ppb | 1.8360 | 9.8 | 2.2725 |
| Sb 206.834 | 1.5575b | ppb | 5.0408 | 323.6 | 16.8616 |
| Se 196.026 | -3.0385b | ppb | 9.7445 | 320.7 | 4.5185 |
| Sn 189.925 | 21.4600b | ppb | 1.5171 | 7.1 | 8.7364 |
| Sr 216.596 | 65.6841b | ppb | 0.3859 | 0.6 | 995.934 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 19281.9b | ppb | 74.8521 | 0.4 | 5350543 |
| Tl 190.794 | 4.5886b | ppb | 3.4307 | 74.8 | -28.6162 |
| V 292.401 | 612.063b | ppb | 0.6070 | 0.1 | 16207.2 |
| Zn 206.200 | 563.332b | ppb | 6.0076 | 1.1 | 498.146 |

**680-106108-a-43-a (Samp)** **10/15/2014, 1:46:33 PM** **Rack 1, Tube 45**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.5307u | -0.4185u | -0.4159u |
| Al 308.215 | 14881.9 | 14147.8 | 13602.1 |
| As 188.980 | 6.6679 | 6.8416 | 4.1566 |
| B 249.678 | 1.5976u | 1.4153u | 2.2622u |
| Ba 389.178 | 206.982 | 198.300 | 191.345 |
| Be 313.042 | 0.4097 | 0.3813 | 0.3647 |
| Ca 370.602 | 2291 | 2172 | 2088 |
| Cd 226.502 | -0.5094 | -0.4903 | -0.5993 |
| Co 228.615 | 13.2996 | 12.7536 | 12.0853 |
| Cr 267.716 | 64.4491 | 61.1764 | 59.0485 |
| Cu 324.754 | 33.9702 | 32.5355 | 31.2204 |
| Fe 271.441 | 27059.8 | 25696.9 | 24802.2 |
| K 766.491 | 12180.4 | 11639.3 | 11225.9 |
| Mg 279.078 | 11749.4 | 11177.2 | 10793.4 |
| Mn 257.610 | 580.143 | 551.042 | 531.373 |
| Mo 202.032 | 0.9989 | -0.0417u | -0.0051u |
| Na 330.237 | 94.7575u | 221.722u | 174.939u |
| Ni 231.604 | 30.3070 | 28.0069 | 25.5294 |
| Pb 220.353 | 3.0462 | 4.7188 | 1.9477 |
| Sb 206.834 | 2.2889 | 5.5589 | 0.7091 |
| Se 196.026 | 5.9540 | 3.6192 | 2.4041 |
| Sn 189.925 | 1.8428 | 4.7047 | 4.4368 |
| Sr 216.596 | 7.6478 | 6.9526 | 6.9907 |
| Ti 334.941 | 2032.61 | 1932.99 | 1905.10 |
| Tl 190.794 | 1.7510u | 0.4448u | 1.7355u |
| V 292.401 | 62.9384 | 59.6249 | 57.5193 |
| Zn 206.200 | 59.9134 | 54.6048 | 54.3137 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.4551 | ppb | 0.0655 | 14.4 | -47.2891 |
| Al 308.215 | 14210.6 | ppb | 642.210 | 4.5 | 94479.3 |
| As 188.980 | 5.8887 | ppb | 1.5026 | 25.5 | 0.7315 |
| B 249.678 | 1.7584 | ppb | 0.4457 | 25.3 | 8.1268 |
| Ba 389.178 | 198.876 | ppb | 7.8344 | 3.9 | 4009.90 |
| Be 313.042 | 0.3852 | ppb | 0.0228 | 5.9 | 313.057 |
| Ca 370.602 | 2184 | ppb | 101.8 | 4.7 | 5512 |
| Cd 226.502 | -0.5330 | ppb | 0.0582 | 10.9 | 85.3583 |
| Co 228.615 | 12.7128 | ppb | 0.6082 | 4.8 | 174.572 |
| Cr 267.716 | 61.5580 | ppb | 2.7204 | 4.4 | 3102.89 |
| Cu 324.754 | 32.5754 | ppb | 1.3753 | 4.2 | 2544.41 |
| Fe 271.441 | 25853.0 | ppb | 1136.89 | 4.4 | 36416.7 |
| K 766.491 | 11681.8 | ppb | 478.641 | 4.1 | 500053 |
| Mg 279.078 | 11240.0 | ppb | 481.101 | 4.3 | 27311.5 |
| Mn 257.610 | 554.186 | ppb | 24.5363 | 4.4 | 114797 |
| Mo 202.032 | 0.3174 | ppb | 0.5905 | 186.1 | 7.0811 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 163.806 | ppb | 64.2103 | 39.2 | 18.5578 |
| Ni 231.604 | 27.9478 | ppb | 2.3894 | 8.5 | 74.5778 |
| Pb 220.353 | 3.2376 | ppb | 1.3954 | 43.1 | 2.5654 |
| Sb 206.834 | 2.8523 | ppb | 2.4735 | 86.7 | 6.2960 |
| Se 196.026 | 3.9924 | ppb | 1.8042 | 45.2 | 4.5781 |
| Sn 189.925 | 3.6614 | ppb | 1.5807 | 43.2 | -2.9655 |
| Sr 216.596 | 7.1970 | ppb | 0.3908 | 5.4 | 108.732 |
| Ti 334.941 | 1956.90 | ppb | 67.0311 | 3.4 | 542964 |
| Tl 190.794 | 1.3104 | ppb | 0.7497 | 57.2 | -7.3910 |
| V 292.401 | 60.0275 | ppb | 2.7319 | 4.6 | 1584.12 |
| Zn 206.200 | 56.2773 | ppb | 3.1523 | 5.6 | 50.8376 |

**680-106108-a-44-a (Samp)** **10/15/2014, 1:50:50 PM** **Rack 1, Tube 46**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -5.5785u | -4.8645u | -5.4867u |
| Al 308.215 | 149332 | 149535 | 149351 |
| As 188.980 | 27.2469 | 29.7511 | 26.0289 |
| B 249.678 | 9.1675u | 8.3331u | 8.1709u |
| Ba 389.178 | 1906.59 | 1907.72 | 1905.86 |
| Be 313.042 | 4.3466 | 4.3617 | 4.3566 |
| Ca 370.602 | 22367 | 22428 | 22440 |
| Cd 226.502 | -4.5522 | -4.3430 | -4.4188 |
| Co 228.615 | 134.934 | 135.166 | 136.045 |
| Cr 267.716 | 457.116 | 457.454 | 457.393 |
| Cu 324.754 | 341.886 | 344.318 | 346.690 |
| Fe 271.441 | 252801 | 253176 | 253113 |
| K 766.491 | 106306x | 106341x | 106620x |
| Mg 279.078 | 106318 | 106412 | 106304 |
| Mn 257.610 | 5080.26 | 5096.27 | 5087.11 |
| Mo 202.032 | 3.5920 | 3.0586 | 3.2740 |
| Na 330.237 | 1452.77u | 1535.85u | 1804.87u |
| Ni 231.604 | 227.829 | 230.039 | 226.799 |
| Pb 220.353 | 19.9139 | 23.0650 | 24.1634 |
| Sb 206.834 | 0.1892 | -3.9773 | 3.1457 |
| Se 196.026 | 8.1593 | -6.7149 | 2.9998 |
| Sn 189.925 | 16.4455 | 16.4914 | 18.4341 |
| Sr 216.596 | 68.1773 | 67.7418 | 67.9482 |
| Ti 334.941 | 18975.8 | 18942.2 | 19068.2 |
| Tl 190.794 | 9.3588u | 2.8768u | 1.6001u |
| V 292.401 | 577.796 | 578.893 | 579.532 |
| Zn 206.200 | 566.262 | 572.173 | 564.133 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -5.3099b | ppb | 0.3884 | 7.3 | -438.620 |
| Al 308.215 | 149406b | ppb | 112.278 | 0.1 | 989542 |
| As 188.980 | 27.6756b | ppb | 1.8977 | 6.9 | 12.3663 |
| B 249.678 | 8.5572b | ppb | 0.5348 | 6.2 | -364.005 |
| Ba 389.178 | 1906.72b | ppb | 0.9404 | 0.0 | 38881.9 |
| Be 313.042 | 4.3550b | ppb | 0.0077 | 0.2 | 6802.61 |
| Ca 370.602 | 22412b | ppb | 39.26 | 0.2 | 56209 |
| Cd 226.502 | -4.4380b | ppb | 0.1059 | 2.4 | 749.629 |
| Co 228.615 | 135.382b | ppb | 0.5862 | 0.4 | 1792.52 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 457.321b | ppb | 0.1799 | 0.0 | 22890.5 |
| Cu 324.754 | 344.298b | ppb | 2.4024 | 0.7 | 24493.9 |
| Fe 271.441 | 253030b | ppb | 201.310 | 0.1 | 356361 |
| K 766.491 | 106422xb | ppb | 171.843 | 0.2 | 4552883 |
| Mg 279.078 | 106345b | ppb | 58.7816 | 0.1 | 258240 |
| Mn 257.610 | 5087.88b | ppb | 8.0323 | 0.2 | 1053666 |
| Mo 202.032 | 3.3082b | ppb | 0.2683 | 8.1 | 15.4043 |
| Na 330.237 | 1597.83b | ppb | 184.050 | 11.5 | -12.5000 |
| Ni 231.604 | 228.222b | ppb | 1.6558 | 0.7 | 646.378 |
| Pb 220.353 | 22.3807b | ppb | 2.2058 | 9.9 | 7.7449 |
| Sb 206.834 | -0.2141b | ppb | 3.5786 | 1671.3 | 13.1626 |
| Se 196.026 | 1.4814b | ppb | 7.5525 | 509.8 | 6.1957 |
| Sn 189.925 | 17.1237b | ppb | 1.1351 | 6.6 | 5.8852 |
| Sr 216.596 | 67.9558b | ppb | 0.2178 | 0.3 | 1017.10 |
| Ti 334.941 | 18995.4b | ppb | 65.2247 | 0.3 | 5271027 |
| Tl 190.794 | 4.6119b | ppb | 4.1602 | 90.2 | -28.1491 |
| V 292.401 | 578.740b | ppb | 0.8780 | 0.2 | 15343.7 |
| Zn 206.200 | 567.523b | ppb | 4.1660 | 0.7 | 502.401 |

**680-106108-a-44-a (Samp)** **10/15/2014, 1:55:07 PM** **Rack 1, Tube 47**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.5502u | -0.3983u | -0.7957u |
| Al 308.215 | 13900.7 | 13918.1 | 13891.0 |
| As 188.980 | 8.2101 | 8.9873 | 6.2175 |
| B 249.678 | 1.7781u | 1.8028u | 1.3654u |
| Ba 389.178 | 185.053 | 185.359 | 186.291 |
| Be 313.042 | 0.4290 | 0.4299 | 0.4315 |
| Ca 370.602 | 2324 | 2326 | 2326 |
| Cd 226.502 | -0.5989 | -0.5974 | -0.4760 |
| Co 228.615 | 13.0751 | 13.7735 | 14.0317 |
| Cr 267.716 | 47.9003 | 47.9617 | 47.7765 |
| Cu 324.754 | 34.9719 | 35.1806 | 35.0606 |
| Fe 271.441 | 25018.9 | 25095.8 | 25081.5 |
| K 766.491 | 10839.8 | 10878.0 | 10844.9 |
| Mg 279.078 | 10552.5 | 10561.4 | 10534.9 |
| Mn 257.610 | 520.630 | 521.868 | 521.318 |
| Mo 202.032 | 0.5002 | 0.2643 | 0.2073 |
| Na 330.237 | 3.7075u | 80.4045u | 108.388u |
| Ni 231.604 | 24.5662 | 24.9735 | 25.4937 |
| Pb 220.353 | 4.8329 | 5.0233 | 2.1772 |
| Sb 206.834 | 3.8497 | 2.8591 | 0.1604 |
| Se 196.026 | 0.8927 | 1.6964 | 3.8183 |
| Sn 189.925 | 7.8921 | 1.2219 | 2.0653 |
| Sr 216.596 | 7.1454 | 6.5130 | 6.8350 |
| Ti 334.941 | 1927.29 | 1931.64 | 1930.36 |
| Tl 190.794 | 0.9033u | 0.4990u | -1.0472u |
| V 292.401 | 56.7752 | 56.8292 | 56.8518 |
| Zn 206.200 | 52.5862 | 54.0691 | 57.9345 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.5814 | ppb | 0.2005 | 34.5 | -57.0877 |
| Al 308.215 | 13903.3 | ppb | 13.6912 | 0.1 | 92444.0 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 7.8050 | ppb | 1.4287 | 18.3 | 1.7607 |
| B 249.678 | 1.6487 | ppb | 0.2457 | 14.9 | 8.0355 |
| Ba 389.178 | 185.567 | ppb | 0.6450 | 0.3 | 3738.73 |
| Be 313.042 | 0.4301 | ppb | 0.0012 | 0.3 | 386.132 |
| Ca 370.602 | 2325 | ppb | 1.066 | 0.0 | 5838 |
| Cd 226.502 | -0.5574 | ppb | 0.0705 | 12.7 | 81.7670 |
| Co 228.615 | 13.6268 | ppb | 0.4949 | 3.6 | 183.595 |
| Cr 267.716 | 47.8795 | ppb | 0.0943 | 0.2 | 2423.65 |
| Cu 324.754 | 35.0710 | ppb | 0.1048 | 0.3 | 2719.19 |
| Fe 271.441 | 25065.4 | ppb | 40.9313 | 0.2 | 35307.7 |
| K 766.491 | 10854.3 | ppb | 20.7130 | 0.2 | 464650 |
| Mg 279.078 | 10549.6 | ppb | 13.4910 | 0.1 | 25635.0 |
| Mn 257.610 | 521.272 | ppb | 0.6207 | 0.1 | 107984 |
| Mo 202.032 | 0.3239 | ppb | 0.1553 | 47.9 | 7.1566 |
| Na 330.237 | 64.1666 | ppb | 54.1964 | 84.5 | 14.0719 |
| Ni 231.604 | 25.0111 | ppb | 0.4649 | 1.9 | 66.3836 |
| Pb 220.353 | 4.0111 | ppb | 1.5910 | 39.7 | 3.7115 |
| Sb 206.834 | 2.2897 | ppb | 1.9094 | 83.4 | 5.3899 |
| Se 196.026 | 2.1358 | ppb | 1.5115 | 70.8 | 3.8515 |
| Sn 189.925 | 3.7264 | ppb | 3.6321 | 97.5 | -2.9228 |
| Sr 216.596 | 6.8311 | ppb | 0.3162 | 4.6 | 104.056 |
| Ti 334.941 | 1929.76 | ppb | 2.2350 | 0.1 | 535433 |
| Tl 190.794 | 0.1183 | ppb | 1.0295 | 869.9 | -8.4829 |
| V 292.401 | 56.8187 | ppb | 0.0394 | 0.1 | 1500.92 |
| Zn 206.200 | 54.8633 | ppb | 2.7612 | 5.0 | 49.6252 |

**680-106108-a-45-a (Samp)** **10/15/2014, 1:59:24 PM** **Rack 1, Tube 48**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2180u | -0.3325u | -0.4392u |
| Al 308.215 | 11848.0 | 11752.7 | 11683.7 |
| As 188.980 | 1.9441 | 5.0965 | 9.7170 |
| B 249.678 | 1.6663u | 1.8222u | 1.7874u |
| Ba 389.178 | 159.005 | 156.771 | 156.894 |
| Be 313.042 | 0.2380 | 0.2403 | 0.2357 |
| Ca 370.602 | 1549 | 1540 | 1523 |
| Cd 226.502 | -0.5332 | -0.6116 | -0.3057 |
| Co 228.615 | 8.2742 | 8.0336 | 7.8670 |
| Cr 267.716 | 40.5175 | 40.1124 | 40.0093 |
| Cu 324.754 | 32.8958 | 32.2105 | 32.4476 |
| Fe 271.441 | 23704.1 | 23368.1 | 23412.4 |
| K 766.491 | 8689.18 | 8625.40 | 8611.32 |
| Mg 279.078 | 8216.87 | 8168.53 | 8128.82 |
| Mn 257.610 | 345.695 | 342.999 | 341.847 |
| Mo 202.032 | 1.3302 | 0.7446 | 0.5717 |
| Na 330.237 | 31.8138u | 251.521 | -0.9525u |
| Ni 231.604 | 17.7527 | 20.0328 | 19.2552 |
| Pb 220.353 | 125.709 | 123.140 | 125.774 |
| Sb 206.834 | -1.7113u | 0.5485 | 3.8607 |
| Se 196.026 | -1.5534u | 1.4298 | 10.8568 |
| Sn 189.925 | 2.6338 | 4.4343 | 7.6984 |
| Sr 216.596 | 7.4830 | 7.1076 | 7.3899 |
| Ti 334.941 | 1558.74 | 1544.94 | 1536.49 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 0.4138u | 2.2681u | 1.3410u |
| V 292.401 | 49.7536 | 49.1571 | 48.9843 |
| Zn 206.200 | 47.4713 | 47.5185 | 47.1216 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.3299 | ppb | 0.1106 | 33.5 | -38.2221 |
| Al 308.215 | 11761.5 | ppb | 82.4894 | 0.7 | 78267.9 |
| As 188.980 | 5.5859 | ppb | 3.9095 | 70.0 | 0.5602 |
| B 249.678 | 1.7587 | ppb | 0.0818 | 4.7 | 12.9221 |
| Ba 389.178 | 157.557 | ppb | 1.2555 | 0.8 | 3166.84 |
| Be 313.042 | 0.2380 | ppb | 0.0023 | 1.0 | 72.6940 |
| Ca 370.602 | 1537 | ppb | 13.16 | 0.9 | 3895 |
| Cd 226.502 | -0.4835 | ppb | 0.1589 | 32.9 | 78.9729 |
| Co 228.615 | 8.0583 | ppb | 0.2047 | 2.5 | 118.219 |
| Cr 267.716 | 40.2131 | ppb | 0.2686 | 0.7 | 2041.07 |
| Cu 324.754 | 32.5180 | ppb | 0.3480 | 1.1 | 2539.61 |
| Fe 271.441 | 23494.9 | ppb | 182.546 | 0.8 | 33095.3 |
| K 766.491 | 8641.97 | ppb | 41.4927 | 0.5 | 370013 |
| Mg 279.078 | 8171.41 | ppb | 44.0958 | 0.5 | 19861.1 |
| Mn 257.610 | 343.514 | ppb | 1.9746 | 0.6 | 71202.9 |
| Mo 202.032 | 0.8822 | ppb | 0.3975 | 45.1 | 10.6851 |
| Na 330.237 | 94.1273 | ppb | 137.288 | 145.9 | 16.7745 |
| Ni 231.604 | 19.0136 | ppb | 1.1591 | 6.1 | 49.6644 |
| Pb 220.353 | 124.875 | ppb | 1.5024 | 1.2 | 176.314 |
| Sb 206.834 | 0.8993 | ppb | 2.8025 | 311.6 | 3.4243 |
| Se 196.026 | 3.5777 | ppb | 6.4779 | 181.1 | 4.3611 |
| Sn 189.925 | 4.9222 | ppb | 2.5673 | 52.2 | -2.1366 |
| Sr 216.596 | 7.3269 | ppb | 0.1955 | 2.7 | 107.703 |
| Ti 334.941 | 1546.73 | ppb | 11.2311 | 0.7 | 429143 |
| Tl 190.794 | 1.3410 | ppb | 0.9271 | 69.1 | -7.2122 |
| V 292.401 | 49.2983 | ppb | 0.4036 | 0.8 | 1300.09 |
| Zn 206.200 | 47.3704 | ppb | 0.2168 | 0.5 | 42.9439 |

**Cont Calib Verif (CCV)** **10/15/2014, 2:03:40 PM** **Rack 1, Tube 49**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 495.281 | 496.176 | 494.722 |
| Al 308.215 | 4854.02 | 4804.27 | 4845.53 |
| As 188.980 | 462.522 | 462.986 | 471.416 |
| B 249.678 | 483.217 | 484.356 | 486.826 |
| Ba 389.178 | 4886.57 | 4871.72 | 4879.78 |
| Be 313.042 | 492.655 | 488.715 | 494.109 |
| Ca 370.602 | 4969 | 4952 | 4954 |
| Cd 226.502 | 494.721 | 491.455 | 492.326 |
| Co 228.615 | 502.708 | 499.427 | 500.755 |
| Cr 267.716 | 4921.52 | 4905.94 | 4917.22 |
| Cu 324.754 | 4946.74 | 5052.50 | 5009.75 |
| Fe 271.441 | 4936.12 | 4929.03 | 4927.59 |
| K 766.491 | 10109.0 | 10127.8 | 10101.0 |
| Mg 279.078 | 4913.75 | 4888.05 | 4900.10 |
| Mn 257.610 | 5034.27 | 5016.98 | 5030.65 |
| Mo 202.032 | 493.166 | 491.361 | 494.679 |
| Na 330.237 | 7514.02 | 7564.54 | 7697.95 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 2505.74 | 2497.55 | 2498.17 |
| Pb 220.353 | 502.633 | 498.085 | 497.390 |
| Sb 206.834 | 933.757 | 931.261 | 935.859 |
| Se 196.026 | 4862.76 | 4865.73 | 4866.41 |
| Sn 189.925 | 4967.82 | 4947.57 | 4932.16 |
| Sr 216.596 | 2456.87 | 2439.89 | 2447.44 |
| Ti 334.941 | 488.396 | 487.588 | 487.996 |
| Tl 190.794 | 5033.73 | 5025.35 | 5016.96 |
| V 292.401 | 4898.65 | 4889.00 | 4893.48 |
| Zn 206.200 | 2466.85 | 2460.44 | 2448.83 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 495.393 | ppb | 0.7331 | 0.1 | 38261.7 | 99.07857 |
| Al 308.215 | 4834.61 | ppb | 26.6153 | 0.6 | 32897.1 | 96.69211 |
| As 188.980 | 465.641 | ppb | 5.0063 | 1.1 | 247.298 | 93.12827 |
| B 249.678 | 484.800 | ppb | 1.8447 | 0.4 | 7368.32 | 96.95992 |
| Ba 389.178 | 4879.36 | ppb | 7.4359 | 0.2 | 98929.5 | 97.58713 |
| Be 313.042 | 491.826 | ppb | 2.7910 | 0.6 | 800538 | 98.36529 |
| Ca 370.602 | 4958 | ppb | 9.420 | 0.2 | 11735 | 99.16423 |
| Cd 226.502 | 492.834 | ppb | 1.6912 | 0.3 | 18474.8 | 98.56673 |
| Co 228.615 | 500.963 | ppb | 1.6504 | 0.3 | 5225.93 | 100.19264 |
| Cr 267.716 | 4914.90 | ppb | 8.0457 | 0.2 | 243891 | 98.29793 |
| Cu 324.754 | 5003.00 | ppb | 53.2019 | 1.1 | 351095 | 100.05995 |
| Fe 271.441 | 4930.91 | ppb | 4.5635 | 0.1 | 7048.99 | 98.61826 |
| K 766.491 | 10112.6 | ppb | 13.7773 | 0.1 | 432924 | 101.12612 |
| Mg 279.078 | 4900.63 | ppb | 12.8560 | 0.3 | 11831.2 | 98.01263 |
| Mn 257.610 | 5027.30 | ppb | 9.1203 | 0.2 | 1039695 | 100.54601 |
| Mo 202.032 | 493.068 | ppb | 1.6610 | 0.3 | 3052.50 | 98.61366 |
| Na 330.237 | 7592.17 | ppb | 95.0277 | 1.3 | 322.427 | 101.22897 |
| Ni 231.604 | 2500.49 | ppb | 4.5618 | 0.2 | 6921.27 | 100.01952 |
| Pb 220.353 | 499.370 | ppb | 2.8475 | 0.6 | 715.712 | 99.87393 |
| Sb 206.834 | 933.626 | ppb | 2.3016 | 0.2 | 1276.95 | 93.36260 |
| Se 196.026 | 4864.97 | ppb | 1.9426 | 0.0 | 1876.82 | 97.29935 |
| Sn 189.925 | 4949.18 | ppb | 17.8873 | 0.4 | 3248.64 | 98.98367 |
| Sr 216.596 | 2448.07 | ppb | 8.5091 | 0.3 | 26689.7 | 97.92268 |
| Ti 334.941 | 487.993 | ppb | 0.4040 | 0.1 | 135356 | 97.59868 |
| Tl 190.794 | 5025.35 | ppb | 8.3870 | 0.2 | 4915.26 | 100.50697 |
| V 292.401 | 4893.71 | ppb | 4.8318 | 0.1 | 126550 | 97.87421 |
| Zn 206.200 | 2458.71 | ppb | 9.1355 | 0.4 | 2206.60 | 98.34824 |

**Cont Calib Blank (CCB)** **10/15/2014, 2:07:55 PM** **Rack 1, Tube 50**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.3805 | 0.0177 | -0.0161u |
| Al 308.215 | 8.3955 | 8.7214 | 10.4017 |
| As 188.980 | 4.7623 | 1.9795 | 8.1615 |
| B 249.678 | 8.8488 | 7.5205 | 7.0238 |
| Ba 389.178 | -0.1383u | 0.1564 | 0.0443 |
| Be 313.042 | 0.0421 | 0.0455 | 0.0428 |
| Ca 370.602 | -0.0527u | 4.893 | 2.202 |
| Cd 226.502 | -0.0157u | 0.0143 | 0.0839 |
| Co 228.615 | -0.1550u | -0.0754u | 0.0722 |
| Cr 267.716 | 0.2890 | 0.3338 | 0.4046 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 0.2135 | 0.4270 | 0.4924 |
| Fe 271.441 | -1.5238u | -2.6689u | 0.2770 |
| K 766.491 | -0.4307u | 0.3568 | 0.3861 |
| Mg 279.078 | -0.8751u | 2.4909 | 2.1132 |
| Mn 257.610 | 0.4000 | 0.4705 | 0.4779 |
| Mo 202.032 | 1.5644 | 0.7284 | 0.3278 |
| Na 330.237 | -5.0053u | -6.6390u | 92.7746 |
| Ni 231.604 | 0.4256 | -0.0219u | -0.3547u |
| Pb 220.353 | -0.5353u | 3.2529 | 2.2717 |
| Sb 206.834 | 4.5361 | 5.5286 | 4.5275 |
| Se 196.026 | -1.4423u | 1.7616 | 11.5441 |
| Sn 189.925 | 0.0387 | 1.0976 | -1.0163u |
| Sr 216.596 | 0.0664 | 0.0352 | 0.7042 |
| Ti 334.941 | 0.2761 | 0.3052 | 0.2850 |
| Tl 190.794 | 1.8063 | 2.4236 | 0.9283 |
| V 292.401 | 0.5995 | 0.4629 | 0.5042 |
| Zn 206.200 | 0.2166 | 1.7954 | 0.9023 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.1274 | ppb | 0.2199 | 172.6 | -0.6088 | 0.12739 |
| Al 308.215 | 9.1729 | ppb | 1.0766 | 11.7 | 455.172 | 9.17288 |
| As 188.980 | 4.9677 | ppb | 3.0961 | 62.3 | 0.2530 | 4.96774 |
| B 249.678 | 7.7977 | ppb | 0.9436 | 12.1 | 153.437 | 7.79767 |
| Ba 389.178 | 0.0208 | ppb | 0.1487 | 715.4 | -50.3550 | 0.02079 |
| Be 313.042 | 0.0435 | ppb | 0.0018 | 4.1 | -246.379 | 0.04347 |
| Ca 370.602 | 2.347 | ppb | 2.476 | 105.5 | 16.65 | 2.34733 |
| Cd 226.502 | 0.0275 | ppb | 0.0511 | 186.0 | 14.2381 | 0.02748 |
| Co 228.615 | -0.0527 | ppb | 0.1153 | 218.6 | 2.5851 | -0.05273 |
| Cr 267.716 | 0.3425 | ppb | 0.0583 | 17.0 | 48.1221 | 0.34246 |
| Cu 324.754 | 0.3777 | ppb | 0.1459 | 38.6 | 276.410 | 0.37766 |
| Fe 271.441 | -1.3052 | ppb | 1.4850 | 113.8 | 5.0035 | -1.30523 |
| K 766.491 | 0.1041 | ppb | 0.4634 | 445.2 | 329.535 | 0.10408 |
| Mg 279.078 | 1.2430 | ppb | 1.8440 | 148.4 | 21.9403 | 1.24302 |
| Mn 257.610 | 0.4495 | ppb | 0.0430 | 9.6 | 133.654 | 0.44948 |
| Mo 202.032 | 0.8736 | ppb | 0.6309 | 72.2 | 11.6808 | 0.87355 |
| Na 330.237 | 27.0435 | ppb | 56.9307 | 210.5 | 23.3128 | 27.04349 |
| Ni 231.604 | 0.0163 | ppb | 0.3915 | 2397.7 | -4.7316 | 0.01633 |
| Pb 220.353 | 1.6631 | ppb | 1.9661 | 118.2 | 2.8060 | 1.66313 |
| Sb 206.834 | 4.8640 | ppb | 0.5755 | 11.8 | 7.5227 | 4.86404 |
| Se 196.026 | 3.9545 | ppb | 6.7652 | 171.1 | 4.2627 | 3.95446 |
| Sn 189.925 | 0.0400 | ppb | 1.0569 | 2643.4 | -5.3465 | 0.03998 |
| Sr 216.596 | 0.2686 | ppb | 0.3776 | 140.6 | 5.3102 | 0.26860 |
| Ti 334.941 | 0.2888 | ppb | 0.0149 | 5.2 | 18.2589 | 0.28878 |
| Tl 190.794 | 1.7194 | ppb | 0.7515 | 43.7 | -4.2828 | 1.71938 |
| V 292.401 | 0.5222 | ppb | 0.0701 | 13.4 | 6.2837 | 0.52219 |
| Zn 206.200 | 0.9714 | ppb | 0.7917 | 81.5 | 2.0822 | 0.97141 |

**680-106108-a-46-a (Samp)** **10/15/2014, 2:12:10 PM** **Rack 1, Tube 51**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 2.8777 | 2.6857 | 2.3539 |
| Al 308.215 | 12153.6 | 11479.2 | 11080.3 |
| As 188.980 | 2.8991 | 5.8776 | 2.7358 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 4.7511 | 4.6790 | 4.9221 |
| Ba 389.178 | 167.013 | 158.716 | 153.843 |
| Be 313.042 | 0.3463 | 0.3208 | 0.3140 |
| Ca 370.602 | 1841 | 1728 | 1666 |
| Cd 226.502 | -0.3764 | -0.4444 | -0.4214 |
| Co 228.615 | 9.7732 | 9.8271 | 8.7762 |
| Cr 267.716 | 43.8531 | 41.1455 | 39.9951 |
| Cu 324.754 | 28.6507 | 26.7828 | 25.9852 |
| Fe 271.441 | 21380.1 | 20123.4 | 19404.1 |
| K 766.491 | 9608.50 | 9117.57 | 8843.20 |
| Mg 279.078 | 9067.62 | 8523.22 | 8230.40 |
| Mn 257.610 | 413.492 | 392.280 | 380.022 |
| Mo 202.032 | 0.8075 | 0.7678 | 0.5227 |
| Na 330.237 | 208.530 | 226.264 | 233.000 |
| Ni 231.604 | 22.7497 | 21.7863 | 21.5337 |
| Pb 220.353 | 5.7964 | 4.2684 | 5.7965 |
| Sb 206.834 | 2.0265 | 2.5026 | -0.1786 |
| Se 196.026 | -3.5029u | 13.2704 | 2.9104 |
| Sn 189.925 | -0.8855u | 2.3207 | 6.5197 |
| Sr 216.596 | 7.7803 | 6.1602 | 6.3936 |
| Ti 334.941 | 1727.97 | 1625.61 | 1570.42 |
| Tl 190.794 | 3.3307 | -0.7894u | 4.9622 |
| V 292.401 | 51.2994 | 48.3313 | 46.2188 |
| Zn 206.200 | 64.5875 | 60.1491 | 57.2194 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 2.6391 | ppb | 0.2650 | 10.0 | 192.140 |
| Al 308.215 | 11571.0 | ppb | 542.542 | 4.7 | 77002.2 |
| As 188.980 | 3.8375 | ppb | 1.7687 | 46.1 | -0.3627 |
| B 249.678 | 4.7841 | ppb | 0.1249 | 2.6 | 65.3450 |
| Ba 389.178 | 159.857 | ppb | 6.6586 | 4.2 | 3212.45 |
| Be 313.042 | 0.3270 | ppb | 0.0170 | 5.2 | 217.725 |
| Ca 370.602 | 1745 | ppb | 88.96 | 5.1 | 4439 |
| Cd 226.502 | -0.4141 | ppb | 0.0346 | 8.4 | 70.2128 |
| Co 228.615 | 9.4588 | ppb | 0.5918 | 6.3 | 134.373 |
| Cr 267.716 | 41.6646 | ppb | 1.9807 | 4.8 | 2112.11 |
| Cu 324.754 | 27.1396 | ppb | 1.3681 | 5.0 | 2161.08 |
| Fe 271.441 | 20302.5 | ppb | 1000.12 | 4.9 | 28599.8 |
| K 766.491 | 9189.76 | ppb | 387.725 | 4.2 | 393446 |
| Mg 279.078 | 8607.08 | ppb | 424.862 | 4.9 | 20918.7 |
| Mn 257.610 | 395.265 | ppb | 16.9336 | 4.3 | 81898.7 |
| Mo 202.032 | 0.6994 | ppb | 0.1542 | 22.1 | 9.6900 |
| Na 330.237 | 222.598 | ppb | 12.6402 | 5.7 | 23.1762 |
| Ni 231.604 | 22.0232 | ppb | 0.6417 | 2.9 | 57.7550 |
| Pb 220.353 | 5.2871 | ppb | 0.8822 | 16.7 | 5.9511 |
| Sb 206.834 | 1.4502 | ppb | 1.4305 | 98.6 | 4.0701 |
| Se 196.026 | 4.2260 | ppb | 8.4637 | 200.3 | 4.5963 |
| Sn 189.925 | 2.6516 | ppb | 3.7137 | 140.1 | -3.6294 |
| Sr 216.596 | 6.7781 | ppb | 0.8758 | 12.9 | 98.2805 |
| Ti 334.941 | 1641.33 | ppb | 79.9402 | 4.9 | 455395 |
| Tl 190.794 | 2.5012 | ppb | 2.9642 | 118.5 | -5.6686 |
| V 292.401 | 48.6165 | ppb | 2.5523 | 5.2 | 1282.60 |
| Zn 206.200 | 60.6520 | ppb | 3.7097 | 6.1 | 55.0441 |

**680-106108-a-47-a (Samp)** **10/15/2014, 2:16:25 PM** **Rack 1, Tube 52**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.3038u | -0.4586u | -0.1709u |
| Al 308.215 | 11413.6 | 11392.9 | 11415.9 |
| As 188.980 | 5.1333 | 4.5646 | 8.8107 |
| B 249.678 | 2.5025u | 2.4799u | 2.4916u |
| Ba 389.178 | 167.875 | 166.825 | 166.365 |
| Be 313.042 | 0.2885 | 0.2775 | 0.2747 |
| Ca 370.602 | 1954 | 1949 | 1937 |
| Cd 226.502 | -0.4839 | -0.5212 | -0.3447 |
| Co 228.615 | 8.7927 | 9.4752 | 9.5726 |
| Cr 267.716 | 36.8654 | 36.8777 | 36.5284 |
| Cu 324.754 | 33.5420 | 33.2368 | 33.4448 |
| Fe 271.441 | 20457.0 | 20377.2 | 20403.4 |
| K 766.491 | 8789.25 | 8799.06 | 8826.59 |
| Mg 279.078 | 8233.31 | 8199.47 | 8219.75 |
| Mn 257.610 | 376.427 | 375.027 | 375.159 |
| Mo 202.032 | -0.1523u | 0.7057 | 0.0064u |
| Na 330.237 | 192.253 | 47.2671u | 92.9682u |
| Ni 231.604 | 18.8793 | 19.3521 | 19.0623 |
| Pb 220.353 | 3.3856 | 3.4921 | 3.7522 |
| Sb 206.834 | -2.1072u | -0.3843 | 0.7738 |
| Se 196.026 | 3.7381 | 8.4575 | 8.7353 |
| Sn 189.925 | 8.0791 | 2.9316 | 0.0134 |
| Sr 216.596 | 7.5337 | 6.8606 | 7.3590 |
| Ti 334.941 | 1519.00 | 1516.89 | 1516.18 |
| Tl 190.794 | 1.0586u | -3.5763u | -2.0152u |
| V 292.401 | 50.4978 | 50.5320 | 50.1181 |
| Zn 206.200 | 44.6454 | 41.3518 | 42.5896 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.3111 | ppb | 0.1440 | 46.3 | -36.1356 |
| Al 308.215 | 11407.5 | ppb | 12.6348 | 0.1 | 75920.2 |
| As 188.980 | 6.1695 | ppb | 2.3049 | 37.4 | 0.8867 |
| B 249.678 | 2.4913 | ppb | 0.0113 | 0.5 | 30.4132 |
| Ba 389.178 | 167.022 | ppb | 0.7742 | 0.5 | 3357.32 |
| Be 313.042 | 0.2802 | ppb | 0.0073 | 2.6 | 141.821 |
| Ca 370.602 | 1947 | ppb | 8.652 | 0.4 | 4861 |
| Cd 226.502 | -0.4499 | ppb | 0.0930 | 20.7 | 69.2653 |
| Co 228.615 | 9.2801 | ppb | 0.4250 | 4.6 | 130.191 |
| Cr 267.716 | 36.7572 | ppb | 0.1982 | 0.5 | 1868.30 |
| Cu 324.754 | 33.4079 | ppb | 0.1559 | 0.5 | 2600.71 |
| Fe 271.441 | 20412.5 | ppb | 40.6948 | 0.2 | 28754.6 |
| K 766.491 | 8804.97 | ppb | 19.3553 | 0.2 | 376985 |
| Mg 279.078 | 8217.51 | ppb | 17.0331 | 0.2 | 19972.7 |
| Mn 257.610 | 375.538 | ppb | 0.7730 | 0.2 | 77816.8 |
| Mo 202.032 | 0.1866 | ppb | 0.4565 | 244.6 | 6.5105 |
| Na 330.237 | 110.829 | ppb | 74.1248 | 66.9 | 18.4926 |
| Ni 231.604 | 19.0979 | ppb | 0.2384 | 1.2 | 49.6611 |
| Pb 220.353 | 3.5433 | ppb | 0.1886 | 5.3 | 3.5096 |
| Sb 206.834 | -0.5726 | ppb | 1.4497 | 253.2 | 1.3676 |
| Se 196.026 | 6.9770 | ppb | 2.8084 | 40.3 | 5.6526 |
| Sn 189.925 | 3.6747 | ppb | 4.0839 | 111.1 | -2.9568 |
| Sr 216.596 | 7.2511 | ppb | 0.3493 | 4.8 | 103.715 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 1517.36 | ppb | 1.4646 | 0.1 | 420993 |
| Tl 190.794 | -1.5110 | ppb | 2.3582 | 156.1 | -9.6099 |
| V 292.401 | 50.3827 | ppb | 0.2297 | 0.5 | 1326.91 |
| Zn 206.200 | 42.8623 | ppb | 1.6637 | 3.9 | 39.0028 |

**680-106108-a-48-a (Samp)** **10/15/2014, 2:20:41 PM** **Rack 1, Tube 53**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1692u | -0.2782u | -0.0848u |
| Al 308.215 | 8363.54 | 8339.07 | 8335.34 |
| As 188.980 | 4.8907 | 5.2034 | 3.5174 |
| B 249.678 | 1.8108u | 1.8286u | 2.6578 |
| Ba 389.178 | 106.771 | 106.554 | 107.600 |
| Be 313.042 | 0.2779 | 0.2946 | 0.2812 |
| Ca 370.602 | 1583 | 1584 | 1591 |
| Cd 226.502 | -0.2960 | -0.3757 | -0.2447 |
| Co 228.615 | 6.8351 | 7.0657 | 6.3606 |
| Cr 267.716 | 28.1465 | 28.3447 | 27.8964 |
| Cu 324.754 | 18.1643 | 18.0114 | 18.5430 |
| Fe 271.441 | 19135.1 | 19102.4 | 19105.8 |
| K 766.491 | 6060.08 | 6039.65 | 6052.13 |
| Mg 279.078 | 5602.40 | 5602.65 | 5595.40 |
| Mn 257.610 | 254.116 | 253.997 | 253.868 |
| Mo 202.032 | 2.1379 | 2.9183 | 2.1575 |
| Na 330.237 | 41.5632u | -88.5594u | 16.3449u |
| Ni 231.604 | 13.3399 | 13.6481 | 12.7606 |
| Pb 220.353 | 11.1032 | 10.7172 | 14.2234 |
| Sb 206.834 | -0.1767 | 0.4225 | -1.3753u |
| Se 196.026 | 6.9088 | 5.5408 | 2.7224 |
| Sn 189.925 | 4.9423 | 4.8149 | 5.8842 |
| Sr 216.596 | 5.4664 | 5.3874 | 4.9957 |
| Ti 334.941 | 993.072 | 990.739 | 991.540 |
| Tl 190.794 | 3.6605 | 0.4608u | -2.2179u |
| V 292.401 | 34.8175 | 34.0718 | 34.7137 |
| Zn 206.200 | 33.1951 | 33.4050 | 33.1116 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1774 | ppb | 0.0969 | 54.6 | -26.1134 |
| Al 308.215 | 8345.98 | ppb | 15.3156 | 0.2 | 55657.8 |
| As 188.980 | 4.5372 | ppb | 0.8969 | 19.8 | -0.0087 |
| B 249.678 | 2.0991 | ppb | 0.4840 | 23.1 | 27.1957 |
| Ba 389.178 | 106.975 | ppb | 0.5519 | 0.5 | 2135.51 |
| Be 313.042 | 0.2846 | ppb | 0.0088 | 3.1 | 147.782 |
| Ca 370.602 | 1586 | ppb | 4.671 | 0.3 | 3849 |
| Cd 226.502 | -0.3055 | ppb | 0.0660 | 21.6 | 70.0204 |
| Co 228.615 | 6.7538 | ppb | 0.3595 | 5.3 | 93.6481 |
| Cr 267.716 | 28.1292 | ppb | 0.2246 | 0.8 | 1438.14 |
| Cu 324.754 | 18.2395 | ppb | 0.2737 | 1.5 | 1536.64 |
| Fe 271.441 | 19114.4 | ppb | 17.9908 | 0.1 | 26926.1 |
| K 766.491 | 6050.62 | ppb | 10.3005 | 0.2 | 259159 |
| Mg 279.078 | 5600.15 | ppb | 4.1152 | 0.1 | 13617.0 |
| Mn 257.610 | 253.994 | ppb | 0.1239 | 0.0 | 52659.7 |
| Mo 202.032 | 2.4046 | ppb | 0.4450 | 18.5 | 20.3072 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | -10.2171 | ppb | 69.0082 | 675.4 | 14.2712 |
| Ni 231.604 | 13.2495 | ppb | 0.4506 | 3.4 | 33.3674 |
| Pb 220.353 | 12.0146 | ppb | 1.9226 | 16.0 | 15.9174 |
| Sb 206.834 | -0.3765 | ppb | 0.9154 | 243.1 | 1.4590 |
| Se 196.026 | 5.0573 | ppb | 2.1347 | 42.2 | 4.8805 |
| Sn 189.925 | 5.2138 | ppb | 0.5840 | 11.2 | -1.9449 |
| Sr 216.596 | 5.2832 | ppb | 0.2521 | 4.8 | 80.8124 |
| Ti 334.941 | 991.784 | ppb | 1.1853 | 0.1 | 275152 |
| Tl 190.794 | 0.6345 | ppb | 2.9431 | 463.9 | -7.4523 |
| V 292.401 | 34.5344 | ppb | 0.4039 | 1.2 | 907.899 |
| Zn 206.200 | 33.2373 | ppb | 0.1512 | 0.5 | 30.3911 |

**680-106108-a-49-a (Samp)** **10/15/2014, 2:24:56 PM** **Rack 1, Tube 54**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2452u | -0.4386u | -0.4988u |
| Al 308.215 | 12212.2 | 12259.8 | 12220.4 |
| As 188.980 | 6.1589 | 4.7055 | 2.9779 |
| B 249.678 | 1.2487u | 1.0132u | 1.6945u |
| Ba 389.178 | 166.790 | 169.534 | 168.231 |
| Be 313.042 | 0.3168 | 0.3148 | 0.3118 |
| Ca 370.602 | 2101 | 2119 | 2106 |
| Cd 226.502 | -0.4218 | -0.4431 | -0.4014 |
| Co 228.615 | 10.6087 | 10.8301 | 10.8979 |
| Cr 267.716 | 41.2552 | 41.2547 | 41.2602 |
| Cu 324.754 | 29.4870 | 29.6111 | 29.6027 |
| Fe 271.441 | 21742.3 | 21837.0 | 21762.0 |
| K 766.491 | 8531.51 | 8585.49 | 8553.92 |
| Mg 279.078 | 8630.41 | 8674.06 | 8628.32 |
| Mn 257.610 | 381.767 | 383.093 | 382.172 |
| Mo 202.032 | 0.6723 | -0.0342u | 0.5136 |
| Na 330.237 | 156.081u | 84.1717u | -6.8280u |
| Ni 231.604 | 20.8207 | 20.7854 | 21.8081 |
| Pb 220.353 | 0.2568u | 1.1772u | 3.2549 |
| Sb 206.834 | 5.0385 | 2.9203 | 1.5109 |
| Se 196.026 | 1.0175 | -4.8370u | 0.3959 |
| Sn 189.925 | 1.3818 | 2.4629 | 9.7124 |
| Sr 216.596 | 7.3276 | 7.7089 | 7.0391 |
| Ti 334.941 | 1581.99 | 1589.51 | 1584.95 |
| Tl 190.794 | -2.2789u | -0.9200u | 1.3393u |
| V 292.401 | 53.2021 | 53.1885 | 53.0866 |
| Zn 206.200 | 45.7224 | 46.6849 | 46.3039 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.3942 | ppb | 0.1325 | 33.6 | -42.7532 |
| Al 308.215 | 12230.8 | ppb | 25.4287 | 0.2 | 81371.0 |
| As 188.980 | 4.6141 | ppb | 1.5925 | 34.5 | 0.0517 |
| B 249.678 | 1.3188 | ppb | 0.3460 | 26.2 | 9.8561 |
| Ba 389.178 | 168.185 | ppb | 1.3729 | 0.8 | 3382.14 |
| Be 313.042 | 0.3145 | ppb | 0.0025 | 0.8 | 197.759 |
| Ca 370.602 | 2109 | ppb | 9.083 | 0.4 | 5245 |
| Cd 226.502 | -0.4221 | ppb | 0.0209 | 4.9 | 75.2124 |
| Co 228.615 | 10.7789 | ppb | 0.1513 | 1.4 | 147.169 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 41.2567 | ppb | 0.0030 | 0.0 | 2092.32 |
| Cu 324.754 | 29.5669 | ppb | 0.0694 | 0.2 | 2331.86 |
| Fe 271.441 | 21780.4 | ppb | 49.9547 | 0.2 | 30681.2 |
| K 766.491 | 8556.98 | ppb | 27.1163 | 0.3 | 366377 |
| Mg 279.078 | 8644.26 | ppb | 25.8305 | 0.3 | 21009.1 |
| Mn 257.610 | 382.344 | ppb | 0.6797 | 0.2 | 79231.2 |
| Mo 202.032 | 0.3839 | ppb | 0.3707 | 96.6 | 7.6698 |
| Na 330.237 | 77.8083 | ppb | 81.6408 | 104.9 | 16.3690 |
| Ni 231.604 | 21.1381 | ppb | 0.5805 | 2.7 | 55.4142 |
| Pb 220.353 | 1.5630 | ppb | 1.5358 | 98.3 | 0.5658 |
| Sb 206.834 | 3.1566 | ppb | 1.7756 | 56.3 | 6.3660 |
| Se 196.026 | -1.1412 | ppb | 3.2157 | 281.8 | 2.5387 |
| Sn 189.925 | 4.5190 | ppb | 4.5300 | 100.2 | -2.4017 |
| Sr 216.596 | 7.3585 | ppb | 0.3359 | 4.6 | 106.359 |
| Ti 334.941 | 1585.48 | ppb | 3.7899 | 0.2 | 439897 |
| Tl 190.794 | -0.6199 | ppb | 1.8277 | 294.9 | -8.8929 |
| V 292.401 | 53.1591 | ppb | 0.0631 | 0.1 | 1400.11 |
| Zn 206.200 | 46.2371 | ppb | 0.4847 | 1.0 | 41.9837 |

**680-106108-a-50-a (Samp)** **10/15/2014, 2:29:12 PM** **Rack 1, Tube 55**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.3561u | -0.3603u | -0.2308u |
| Al 308.215 | 9671.63 | 9648.67 | 9692.22 |
| As 188.980 | 4.5766 | 3.9259 | 4.2502 |
| B 249.678 | 1.3070u | 1.8382u | 1.4934u |
| Ba 389.178 | 147.150 | 147.735 | 147.778 |
| Be 313.042 | 0.2285 | 0.2281 | 0.2279 |
| Ca 370.602 | 1504 | 1514 | 1520 |
| Cd 226.502 | -0.2697 | 0.0403 | -0.2185 |
| Co 228.615 | 6.9363 | 7.6768 | 8.4000 |
| Cr 267.716 | 31.2048 | 31.1640 | 31.6613 |
| Cu 324.754 | 78.3691 | 77.1811 | 77.6226 |
| Fe 271.441 | 17119.6 | 17100.4 | 17112.3 |
| K 766.491 | 7538.74 | 7508.77 | 7546.27 |
| Mg 279.078 | 6915.19 | 6915.03 | 6946.32 |
| Mn 257.610 | 311.578 | 311.171 | 312.234 |
| Mo 202.032 | 0.1854 | 0.5133 | 0.3816 |
| Na 330.237 | 112.162u | 19.9043u | -71.1095u |
| Ni 231.604 | 20.0948 | 18.0318 | 19.6330 |
| Pb 220.353 | 146.445 | 144.498 | 145.969 |
| Sb 206.834 | 2.8966 | 2.7500 | 3.6241 |
| Se 196.026 | 4.0055 | 4.4209 | 4.1200 |
| Sn 189.925 | 2.9128 | 2.9250 | 5.3105 |
| Sr 216.596 | 6.4419 | 6.9427 | 6.5027 |
| Ti 334.941 | 1333.56 | 1329.08 | 1334.84 |
| Tl 190.794 | -3.0666u | -1.1816u | -0.7151u |
| V 292.401 | 41.7667 | 41.3196 | 41.3296 |
| Zn 206.200 | 42.6810 | 42.3273 | 44.7562 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.3157 | ppb | 0.0736 | 23.3 | -36.2568 |
| Al 308.215 | 9670.84 | ppb | 21.7856 | 0.2 | 64421.9 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 4.2509 | ppb | 0.3253 | 7.7 | -0.1397 |
| B 249.678 | 1.5462 | ppb | 0.2695 | 17.4 | 23.2263 |
| Ba 389.178 | 147.554 | ppb | 0.3511 | 0.2 | 2959.17 |
| Be 313.042 | 0.2281 | ppb | 0.0003 | 0.1 | 56.4432 |
| Ca 370.602 | 1513 | ppb | 8.474 | 0.6 | 3819 |
| Cd 226.502 | -0.1493 | ppb | 0.1662 | 111.3 | 68.4959 |
| Co 228.615 | 7.6711 | ppb | 0.7319 | 9.5 | 109.470 |
| Cr 267.716 | 31.3434 | ppb | 0.2761 | 0.9 | 1597.57 |
| Cu 324.754 | 77.7243 | ppb | 0.6005 | 0.8 | 5707.66 |
| Fe 271.441 | 17110.8 | ppb | 9.7108 | 0.1 | 24104.6 |
| K 766.491 | 7531.26 | ppb | 19.8411 | 0.3 | 322499 |
| Mg 279.078 | 6925.51 | ppb | 18.0184 | 0.3 | 16835.5 |
| Mn 257.610 | 311.661 | ppb | 0.5365 | 0.2 | 64588.6 |
| Mo 202.032 | 0.3601 | ppb | 0.1650 | 45.8 | 7.7365 |
| Na 330.237 | 20.3189 | ppb | 91.6365 | 451.0 | 15.3264 |
| Ni 231.604 | 19.2532 | ppb | 1.0827 | 5.6 | 49.8392 |
| Pb 220.353 | 145.637 | ppb | 1.0150 | 0.7 | 206.426 |
| Sb 206.834 | 3.0903 | ppb | 0.4681 | 15.1 | 6.0283 |
| Se 196.026 | 4.1822 | ppb | 0.2145 | 5.1 | 4.5386 |
| Sn 189.925 | 3.7161 | ppb | 1.3808 | 37.2 | -2.9296 |
| Sr 216.596 | 6.6291 | ppb | 0.2733 | 4.1 | 93.1320 |
| Ti 334.941 | 1332.49 | ppb | 3.0255 | 0.2 | 369694 |
| Tl 190.794 | -1.6544 | ppb | 1.2450 | 75.3 | -9.3968 |
| V 292.401 | 41.4720 | ppb | 0.2553 | 0.6 | 1092.05 |
| Zn 206.200 | 43.2548 | ppb | 1.3122 | 3.0 | 39.4999 |

**680-106108-a-51-a (Samp)** **10/15/2014, 2:33:28 PM** **Rack 1, Tube 56**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2852u | -0.3667u | -0.2121u |
| Al 308.215 | 11184.2 | 11190.3 | 11210.5 |
| As 188.980 | 8.2956 | 0.8181 | 3.1247 |
| B 249.678 | 1.2509u | 0.9581u | 1.3732u |
| Ba 389.178 | 162.374 | 162.707 | 162.691 |
| Be 313.042 | 0.2712 | 0.2710 | 0.2814 |
| Ca 370.602 | 1648 | 1644 | 1637 |
| Cd 226.502 | 0.0017 | -0.0037 | -0.2430 |
| Co 228.615 | 9.7237 | 9.4403 | 9.6917 |
| Cr 267.716 | 39.3940 | 39.2349 | 39.3591 |
| Cu 324.754 | 48.8607 | 48.7295 | 49.5256 |
| Fe 271.441 | 19895.2 | 19873.8 | 19919.9 |
| K 766.491 | 8652.99 | 8627.28 | 8640.21 |
| Mg 279.078 | 8066.10 | 8072.48 | 8062.15 |
| Mn 257.610 | 359.608 | 359.285 | 359.535 |
| Mo 202.032 | 0.6062 | 0.4372 | 0.6241 |
| Na 330.237 | 210.507 | 106.131u | 91.2454u |
| Ni 231.604 | 20.8919 | 21.2551 | 21.7878 |
| Pb 220.353 | 83.7202 | 82.4709 | 83.0468 |
| Sb 206.834 | 3.2206 | 5.2817 | 4.3334 |
| Se 196.026 | 6.4231 | 0.5504 | 5.4335 |
| Sn 189.925 | 3.0416 | 5.0771 | 5.8933 |
| Sr 216.596 | 7.8346 | 8.0597 | 8.0305 |
| Ti 334.941 | 1498.33 | 1498.92 | 1501.09 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 1.3277u | 2.1381u | 2.2472 |
| V 292.401 | 46.2391 | 46.5196 | 46.5536 |
| Zn 206.200 | 49.4115 | 49.7620 | 50.0419 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.2880 | ppb | 0.0773 | 26.9 | -34.3693 |
| Al 308.215 | 11195.0 | ppb | 13.8023 | 0.1 | 74512.9 |
| As 188.980 | 4.0795 | ppb | 3.8291 | 93.9 | -0.2336 |
| B 249.678 | 1.1941 | ppb | 0.2133 | 17.9 | 12.0699 |
| Ba 389.178 | 162.591 | ppb | 0.1874 | 0.1 | 3266.97 |
| Be 313.042 | 0.2745 | ppb | 0.0060 | 2.2 | 132.195 |
| Ca 370.602 | 1643 | ppb | 5.363 | 0.3 | 4153 |
| Cd 226.502 | -0.0817 | ppb | 0.1397 | 171.1 | 81.0052 |
| Co 228.615 | 9.6186 | ppb | 0.1552 | 1.6 | 133.121 |
| Cr 267.716 | 39.3293 | ppb | 0.0837 | 0.2 | 1995.58 |
| Cu 324.754 | 49.0386 | ppb | 0.4268 | 0.9 | 3696.84 |
| Fe 271.441 | 19896.3 | ppb | 23.0990 | 0.1 | 28027.6 |
| K 766.491 | 8640.16 | ppb | 12.8560 | 0.1 | 369935 |
| Mg 279.078 | 8066.91 | ppb | 5.2089 | 0.1 | 19607.2 |
| Mn 257.610 | 359.476 | ppb | 0.1694 | 0.0 | 74492.7 |
| Mo 202.032 | 0.5559 | ppb | 0.1031 | 18.5 | 8.8239 |
| Na 330.237 | 135.961 | ppb | 64.9863 | 47.8 | 19.7000 |
| Ni 231.604 | 21.3116 | ppb | 0.4506 | 2.1 | 55.7491 |
| Pb 220.353 | 83.0793 | ppb | 0.6253 | 0.8 | 116.972 |
| Sb 206.834 | 4.2785 | ppb | 1.0316 | 24.1 | 7.7597 |
| Se 196.026 | 4.1357 | ppb | 3.1442 | 76.0 | 4.5509 |
| Sn 189.925 | 4.6707 | ppb | 1.4687 | 31.4 | -2.3020 |
| Sr 216.596 | 7.9749 | ppb | 0.1224 | 1.5 | 110.829 |
| Ti 334.941 | 1499.45 | ppb | 1.4495 | 0.1 | 416023 |
| Tl 190.794 | 1.9044 | ppb | 0.5024 | 26.4 | -6.2174 |
| V 292.401 | 46.4375 | ppb | 0.1726 | 0.4 | 1223.86 |
| Zn 206.200 | 49.7385 | ppb | 0.3158 | 0.6 | 45.2225 |

**CRI (Samp)** **10/15/2014, 2:37:44 PM** **Rack 1, Tube 57**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 10.3816 | 10.5208 | 10.8449 |
| Al 308.215 | 216.110 | 212.454 | 217.071 |
| As 188.980 | 27.4718 | 30.2372 | 25.8478 |
| B 249.678 | 102.454 | 102.132 | 102.878 |
| Ba 389.178 | 10.0574 | 10.1864 | 10.0386 |
| Be 313.042 | 4.2072 | 4.1846 | 4.2018 |
| Ca 370.602 | 529.1 | 524.8 | 530.1 |
| Cd 226.502 | 5.1600 | 5.2118 | 5.1660 |
| Co 228.615 | 10.2735 | 10.5718 | 10.2387 |
| Cr 267.716 | 10.4266 | 10.4321 | 10.5589 |
| Cu 324.754 | 21.7551 | 21.2390 | 21.4583 |
| Fe 271.441 | 53.9898 | 51.7388 | 55.3493 |
| K 766.491 | 1082.41 | 1073.77 | 1080.24 |
| Mg 279.078 | 514.471 | 516.180 | 517.515 |
| Mn 257.610 | 11.2473 | 11.2382 | 11.3252 |
| Mo 202.032 | 10.3607 | 9.6988 | 10.3758 |
| Na 330.237 | 948.963 | 756.361 | 917.972 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 42.6781 | 41.8153 | 43.4720 |
| Pb 220.353 | 13.5327 | 13.5252 | 10.6921 |
| Sb 206.834 | 22.9802 | 22.3639 | 25.6513 |
| Se 196.026 | 18.3054 | 27.5932 | 24.2439 |
| Sn 189.925 | 52.1956 | 55.6309 | 56.7762 |
| Sr 216.596 | 9.9628 | 9.7617 | 9.8159 |
| Ti 334.941 | 10.8777 | 10.6454 | 10.7752 |
| Tl 190.794 | 26.1973 | 26.4848 | 25.9057 |
| V 292.401 | 10.4430 | 10.2248 | 10.3492 |
| Zn 206.200 | 21.5243 | 19.2741 | 21.8725 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 10.5824 | ppb | 0.2377 | 2.2 | 807.756 |
| Al 308.215 | 215.212 | ppb | 2.4360 | 1.1 | 1820.09 |
| As 188.980 | 27.8523 | ppb | 2.2193 | 8.0 | 12.5295 |
| B 249.678 | 102.488 | ppb | 0.3743 | 0.4 | 1585.39 |
| Ba 389.178 | 10.0941 | ppb | 0.0804 | 0.8 | 154.685 |
| Be 313.042 | 4.1979 | ppb | 0.0118 | 0.3 | 6516.19 |
| Ca 370.602 | 528.0 | ppb | 2.824 | 0.5 | 1235 |
| Cd 226.502 | 5.1793 | ppb | 0.0283 | 0.5 | 207.227 |
| Co 228.615 | 10.3614 | ppb | 0.1831 | 1.8 | 111.027 |
| Cr 267.716 | 10.4725 | ppb | 0.0748 | 0.7 | 550.761 |
| Cu 324.754 | 21.4841 | ppb | 0.2590 | 1.2 | 1756.98 |
| Fe 271.441 | 53.6926 | ppb | 1.8235 | 3.4 | 83.6499 |
| K 766.491 | 1078.81 | ppb | 4.4911 | 0.4 | 46474.5 |
| Mg 279.078 | 516.055 | ppb | 1.5259 | 0.3 | 1272.41 |
| Mn 257.610 | 11.2702 | ppb | 0.0478 | 0.4 | 2375.22 |
| Mo 202.032 | 10.1451 | ppb | 0.3866 | 3.8 | 69.0444 |
| Na 330.237 | 874.432 | ppb | 103.420 | 11.8 | 63.3032 |
| Ni 231.604 | 42.6551 | ppb | 0.8286 | 1.9 | 113.367 |
| Pb 220.353 | 12.5834 | ppb | 1.6379 | 13.0 | 18.3623 |
| Sb 206.834 | 23.6651 | ppb | 1.7475 | 7.4 | 32.2784 |
| Se 196.026 | 23.3808 | ppb | 4.7036 | 20.1 | 11.7446 |
| Sn 189.925 | 54.8676 | ppb | 2.3838 | 4.3 | 30.7020 |
| Sr 216.596 | 9.8468 | ppb | 0.1040 | 1.1 | 109.051 |
| Ti 334.941 | 10.7661 | ppb | 0.1164 | 1.1 | 2926.33 |
| Tl 190.794 | 26.1959 | ppb | 0.2895 | 1.1 | 19.6570 |
| V 292.401 | 10.3390 | ppb | 0.1095 | 1.1 | 259.004 |
| Zn 206.200 | 20.8903 | ppb | 1.4105 | 6.8 | 20.0244 |

**Cont Calib Verif (CCV)** **10/15/2014, 2:44:14 PM** **Rack 2, Tube 1**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 498.865 | 494.454 | 491.233 |
| Al 308.215 | 4812.71 | 4789.20 | 4766.47 |
| As 188.980 | 462.833 | 459.828 | 458.311 |
| B 249.678 | 483.317 | 484.601 | 486.070 |
| Ba 389.178 | 4882.20 | 4844.94 | 4828.01 |
| Be 313.042 | 490.892 | 488.784 | 487.290 |
| Ca 370.602 | 5211 | 5202 | 5189 |
| Cd 226.502 | 486.693 | 484.651 | 480.736 |
| Co 228.615 | 508.017 | 505.488 | 504.364 |
| Cr 267.716 | 4948.80 | 4920.66 | 4905.78 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 5021.74 | 5006.26 | 4929.01 |
| Fe 271.441 | 4951.56 | 4918.62 | 4923.66 |
| K 766.491 | 10148.8 | 10115.5 | 10088.9 |
| Mg 279.078 | 4923.21 | 4908.24 | 4883.07 |
| Mn 257.610 | 5079.04 | 5067.15 | 5042.23 |
| Mo 202.032 | 491.747 | 490.920 | 489.432 |
| Na 330.237 | 7456.72 | 7254.39 | 7074.73 |
| Ni 231.604 | 2515.15 | 2512.30 | 2496.13 |
| Pb 220.353 | 507.300 | 503.689 | 501.239 |
| Sb 206.834 | 926.966 | 917.989 | 924.983 |
| Se 196.026 | 4748.19 | 4727.83 | 4708.76 |
| Sn 189.925 | 4993.84 | 4978.30 | 4965.18 |
| Sr 216.596 | 2419.57 | 2409.23 | 2393.35 |
| Ti 334.941 | 488.021 | 485.322 | 482.602 |
| Tl 190.794 | 5026.46 | 5015.10 | 4999.51 |
| V 292.401 | 4901.69 | 4870.49 | 4857.71 |
| Zn 206.200 | 2473.29 | 2459.71 | 2448.69 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 494.851 | ppb | 3.8314 | 0.8 | 38223.0 | 98.97015 |
| Al 308.215 | 4789.46 | ppb | 23.1205 | 0.5 | 32592.6 | 95.78919 |
| As 188.980 | 460.324 | ppb | 2.3013 | 0.5 | 244.447 | 92.06480 |
| B 249.678 | 484.662 | ppb | 1.3772 | 0.3 | 7366.09 | 96.93250 |
| Ba 389.178 | 4851.72 | ppb | 27.7254 | 0.6 | 98368.8 | 97.03436 |
| Be 313.042 | 488.989 | ppb | 1.8098 | 0.4 | 795917 | 97.79779 |
| Ca 370.602 | 5200 | ppb | 10.87 | 0.2 | 12291 | 104.00904 |
| Cd 226.502 | 484.027 | ppb | 3.0275 | 0.6 | 18145.0 | 96.80534 |
| Co 228.615 | 505.956 | ppb | 1.8711 | 0.4 | 5277.78 | 101.19121 |
| Cr 267.716 | 4925.08 | ppb | 21.8468 | 0.4 | 244397 | 98.50162 |
| Cu 324.754 | 4985.67 | ppb | 49.6731 | 1.0 | 349880 | 99.71341 |
| Fe 271.441 | 4931.28 | ppb | 17.7437 | 0.4 | 7048.35 | 98.62553 |
| K 766.491 | 10117.8 | ppb | 30.0200 | 0.3 | 433145 | 101.17769 |
| Mg 279.078 | 4904.84 | ppb | 20.2863 | 0.4 | 11842.6 | 98.09679 |
| Mn 257.610 | 5062.81 | ppb | 18.7869 | 0.4 | 1047037 | 101.25618 |
| Mo 202.032 | 490.700 | ppb | 1.1729 | 0.2 | 3037.91 | 98.14000 |
| Na 330.237 | 7261.95 | ppb | 191.105 | 2.6 | 307.242 | 96.82597 |
| Ni 231.604 | 2507.86 | ppb | 10.2604 | 0.4 | 6941.70 | 100.31436 |
| Pb 220.353 | 504.076 | ppb | 3.0490 | 0.6 | 722.341 | 100.81520 |
| Sb 206.834 | 923.312 | ppb | 4.7158 | 0.5 | 1262.20 | 92.33122 |
| Se 196.026 | 4728.26 | ppb | 19.7152 | 0.4 | 1824.17 | 94.56521 |
| Sn 189.925 | 4979.11 | ppb | 14.3508 | 0.3 | 3268.32 | 99.58213 |
| Sr 216.596 | 2407.38 | ppb | 13.2078 | 0.5 | 26245.8 | 96.29530 |
| Ti 334.941 | 485.315 | ppb | 2.7096 | 0.6 | 134612 | 97.06297 |
| Tl 190.794 | 5013.69 | ppb | 13.5333 | 0.3 | 4903.77 | 100.27382 |
| V 292.401 | 4876.63 | ppb | 22.6261 | 0.5 | 126114 | 97.53261 |
| Zn 206.200 | 2460.56 | ppb | 12.3238 | 0.5 | 2208.59 | 98.42252 |

**Cont Calib Blank (CCB)** **10/15/2014, 2:48:29 PM** **Rack 2, Tube 2**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0296 | -0.1525u | 0.1462 |
| Al 308.215 | 6.7231 | 8.5965 | 8.9505 |
| As 188.980 | 1.3386 | 6.8385 | 0.6984 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 9.4793 | 8.4954 | 7.1764 |
| Ba 389.178 | -0.6717u | 0.4402 | 0.0177 |
| Be 313.042 | 0.0402 | 0.0396 | 0.0367 |
| Ca 370.602 | 2.947 | -0.0025 | 2.927 |
| Cd 226.502 | 0.0381 | -0.0496u | -0.0500u |
| Co 228.615 | -0.1947u | 0.2740 | -0.2374u |
| Cr 267.716 | 0.2576 | 0.2703 | 0.3382 |
| Cu 324.754 | 0.3131 | 0.1600 | 0.5012 |
| Fe 271.441 | -5.4252u | 3.3127 | -0.9086u |
| K 766.491 | -0.4990u | -1.1479u | -0.4923u |
| Mg 279.078 | -0.0883u | 1.3564 | 2.2271 |
| Mn 257.610 | 0.3617 | 0.3864 | 0.4192 |
| Mo 202.032 | 0.7584 | 0.8603 | 0.4736 |
| Na 330.237 | -45.9985u | -105.137u | 27.9557 |
| Ni 231.604 | 0.7530 | 0.0001u | 0.7342 |
| Pb 220.353 | 0.6239 | 0.2236 | 2.1650 |
| Sb 206.834 | 6.5187 | 4.7374 | 2.0829 |
| Se 196.026 | 6.1964 | 2.6572 | 5.0743 |
| Sn 189.925 | 3.8466 | -0.7093u | 3.7816 |
| Sr 216.596 | 0.6490 | -0.2373u | 0.2836 |
| Ti 334.941 | 0.1302 | 0.1424 | 0.1705 |
| Tl 190.794 | 1.0234 | 1.1718 | 3.8818 |
| V 292.401 | 0.3488 | 0.6233 | 0.2472 |
| Zn 206.200 | 0.5865 | -0.0864u | 0.7913 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.0077 | ppb | 0.1505 | 1947.2 | -9.8694 | 0.00773 |
| Al 308.215 | 8.0900 | ppb | 1.1970 | 14.8 | 447.972 | 8.09002 |
| As 188.980 | 2.9585 | ppb | 3.3754 | 114.1 | -0.8249 | 2.95847 |
| B 249.678 | 8.3837 | ppb | 1.1555 | 13.8 | 162.295 | 8.38369 |
| Ba 389.178 | -0.0713 | ppb | 0.5613 | 787.7 | -52.2229 | -0.07125 |
| Be 313.042 | 0.0388 | ppb | 0.0019 | 4.9 | -253.891 | 0.03884 |
| Ca 370.602 | 1.957 | ppb | 1.697 | 86.7 | 15.69 | 1.95745 |
| Cd 226.502 | -0.0205 | ppb | 0.0507 | 247.2 | 12.4461 | -0.02052 |
| Co 228.615 | -0.0527 | ppb | 0.2838 | 538.5 | 2.5893 | -0.05270 |
| Cr 267.716 | 0.2887 | ppb | 0.0433 | 15.0 | 45.4567 | 0.28868 |
| Cu 324.754 | 0.3248 | ppb | 0.1709 | 52.6 | 272.692 | 0.32478 |
| Fe 271.441 | -1.0070 | ppb | 4.3698 | 433.9 | 5.4326 | -1.00700 |
| K 766.491 | -0.7131 | ppb | 0.3766 | 52.8 | 294.578 | -0.71309 |
| Mg 279.078 | 1.1651 | ppb | 1.1695 | 100.4 | 21.7523 | 1.16508 |
| Mn 257.610 | 0.3891 | ppb | 0.0288 | 7.4 | 121.174 | 0.38911 |
| Mo 202.032 | 0.6975 | ppb | 0.2004 | 28.7 | 10.5912 | 0.69746 |
| Na 330.237 | -41.0600 | ppb | 66.6837 | 162.4 | 20.0728 | -41.06001 |
| Ni 231.604 | 0.4958 | ppb | 0.4294 | 86.6 | -3.4035 | 0.49579 |
| Pb 220.353 | 1.0041 | ppb | 1.0251 | 102.1 | 1.8667 | 1.00414 |
| Sb 206.834 | 4.4463 | ppb | 2.2322 | 50.2 | 6.9782 | 4.44634 |
| Se 196.026 | 4.6426 | ppb | 1.8086 | 39.0 | 4.5276 | 4.64265 |
| Sn 189.925 | 2.3063 | ppb | 2.6118 | 113.2 | -3.8565 | 2.30628 |
| Sr 216.596 | 0.2318 | ppb | 0.4455 | 192.2 | 4.9026 | 0.23176 |
| Ti 334.941 | 0.1477 | ppb | 0.0207 | 14.0 | -20.8899 | 0.14771 |
| Tl 190.794 | 2.0256 | ppb | 1.6092 | 79.4 | -3.9826 | 2.02564 |
| V 292.401 | 0.4065 | ppb | 0.1946 | 47.9 | 3.3313 | 0.40646 |
| Zn 206.200 | 0.4305 | ppb | 0.4592 | 106.7 | 1.5940 | 0.43047 |

**mb 680-353436/1-a (Samp)** **10/15/2014, 2:52:45 PM** **Rack 2, Tube 3**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1161u | 0.2311 | 0.2027 |
| Al 308.215 | 8.9944 | 8.7170 | 8.9878 |
| As 188.980 | 2.4155 | 0.9085 | 7.6343 |
| B 249.678 | 4.1778 | 4.0354 | 3.0208 |
| Ba 389.178 | 0.1018 | 0.9890 | 0.4553 |
| Be 313.042 | 0.0138 | 0.0212 | 0.0132 |
| Ca 370.602 | 14.29 | 15.86 | 17.45 |
| Cd 226.502 | 0.1090 | -0.1595u | -0.0638u |
| Co 228.615 | 0.1066 | -0.0043u | 0.1152 |
| Cr 267.716 | 2.0556 | 2.2442 | 2.1498 |
| Cu 324.754 | 0.5213 | 0.1753 | 0.2505 |
| Fe 271.441 | 152.146 | 152.335 | 155.384 |
| K 766.491 | 7.3962 | 7.3022 | 7.1380 |
| Mg 279.078 | 1.6546 | 4.2327 | 1.6755 |
| Mn 257.610 | 1.6551 | 1.6545 | 1.6260 |
| Mo 202.032 | 0.5216 | 0.6784 | 0.2613 |
| Na 330.237 | -50.4786u | -85.6165u | -41.5357u |
| Ni 231.604 | 1.7786 | 1.3610 | 0.4482 |
| Pb 220.353 | -0.5245u | -1.6729u | 1.8545 |
| Sb 206.834 | 3.9208 | 4.6817 | 0.4317 |
| Se 196.026 | 6.0725 | 1.1810 | -3.2544u |
| Sn 189.925 | 11.9239 | 12.7091 | 13.1731 |
| Sr 216.596 | 0.7899 | -0.1222u | -0.4761u |
| Ti 334.941 | 0.2912 | 0.2310 | 0.2398 |
| Tl 190.794 | 1.5798 | 3.0600 | 0.3693 |
| V 292.401 | 0.1303 | 0.2395 | 0.1319 |
| Zn 206.200 | 1.5432 | 2.2710 | 2.9503 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.1059 | ppb | 0.1928 | 182.0 | -2.2851 |
| Al 308.215 | 8.8997 | ppb | 0.1583 | 1.8 | 453.554 |
| As 188.980 | 3.6528 | ppb | 3.5295 | 96.6 | -0.4532 |
| B 249.678 | 3.7447 | ppb | 0.6309 | 16.8 | 91.8210 |
| Ba 389.178 | 0.5154 | ppb | 0.4466 | 86.7 | -40.2498 |
| Be 313.042 | 0.0161 | ppb | 0.0044 | 27.7 | -290.961 |
| Ca 370.602 | 15.87 | ppb | 1.583 | 10.0 | 46.43 |
| Cd 226.502 | -0.0381 | ppb | 0.1361 | 357.1 | 12.3286 |
| Co 228.615 | 0.0725 | ppb | 0.0667 | 91.9 | 3.9061 |
| Cr 267.716 | 2.1499 | ppb | 0.0943 | 4.4 | 137.884 |
| Cu 324.754 | 0.3157 | ppb | 0.1820 | 57.6 | 272.116 |
| Fe 271.441 | 153.288 | ppb | 1.8170 | 1.2 | 222.706 |
| K 766.491 | 7.2788 | ppb | 0.1307 | 1.8 | 636.457 |
| Mg 279.078 | 2.5210 | ppb | 1.4824 | 58.8 | 25.0230 |
| Mn 257.610 | 1.6452 | ppb | 0.0166 | 1.0 | 381.365 |
| Mo 202.032 | 0.4871 | ppb | 0.2107 | 43.2 | 9.2832 |
| Na 330.237 | -59.2103 | ppb | 23.3015 | 39.4 | 19.1191 |
| Ni 231.604 | 1.1960 | ppb | 0.6804 | 56.9 | -1.4521 |
| Pb 220.353 | -0.1143 | ppb | 1.7991 | 1573.9 | 0.2645 |
| Sb 206.834 | 3.0114 | ppb | 2.2663 | 75.3 | 5.1156 |
| Se 196.026 | 1.3330 | ppb | 4.6653 | 350.0 | 3.2548 |
| Sn 189.925 | 12.6020 | ppb | 0.6314 | 5.0 | 2.9128 |
| Sr 216.596 | 0.0639 | ppb | 0.6532 | 1022.8 | 3.2389 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 0.2540 | ppb | 0.0325 | 12.8 | 8.6276 |
| Tl 190.794 | 1.6697 | ppb | 1.3476 | 80.7 | -4.3484 |
| V 292.401 | 0.1672 | ppb | 0.0626 | 37.5 | -2.8678 |
| Zn 206.200 | 2.2548 | ppb | 0.7037 | 31.2 | 3.2295 |

**lcs 680-353436/2-a (Samp)** **10/15/2014, 2:57:01 PM** **Rack 2, Tube 4**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 50.1679 | 49.7948 | 50.1089 |
| Al 308.215 | 4815.43 | 4816.75 | 4808.35 |
| As 188.980 | 112.051 | 109.190 | 103.803 |
| B 249.678 | 189.746 | 189.990 | 189.047 |
| Ba 389.178 | 97.8698 | 98.9269 | 97.6817 |
| Be 313.042 | 50.5383 | 50.4912 | 50.3874 |
| Ca 370.602 | 4951 | 4957 | 4946 |
| Cd 226.502 | 50.1137 | 49.7608 | 50.0240 |
| Co 228.615 | 49.5727 | 49.9071 | 49.7182 |
| Cr 267.716 | 101.735 | 101.536 | 101.179 |
| Cu 324.754 | 101.252 | 99.6415 | 101.376 |
| Fe 271.441 | 5006.44 | 5003.51 | 4989.76 |
| K 766.491 | 5036.95 | 5023.58 | 5022.65 |
| Mg 279.078 | 4856.80 | 4854.02 | 4831.07 |
| Mn 257.610 | 520.230 | 519.483 | 519.039 |
| Mo 202.032 | 98.3316 | 99.1687 | 97.6643 |
| Na 330.237 | 4675.04 | 4597.91 | 4596.81 |
| Ni 231.604 | 100.164 | 100.105 | 99.8787 |
| Pb 220.353 | 502.714 | 506.031 | 503.498 |
| Sb 206.834 | 50.3051 | 50.1622 | 49.8822 |
| Se 196.026 | 93.0422 | 100.860 | 95.2397 |
| Sn 189.925 | 205.559 | 202.309 | 207.852 |
| Sr 216.596 | 96.8107 | 97.9347 | 97.4417 |
| Ti 334.941 | 99.7876 | 99.7698 | 99.5091 |
| Tl 190.794 | 37.0021 | 38.0596 | 36.9536 |
| V 292.401 | 99.2253 | 99.2986 | 99.3761 |
| Zn 206.200 | 99.7101 | 103.069 | 101.363 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 50.0239 | ppb | 0.2005 | 0.4 | 3857.23 |
| Al 308.215 | 4813.51 | ppb | 4.5204 | 0.1 | 32270.1 |
| As 188.980 | 108.348 | ppb | 4.1881 | 3.9 | 55.7065 |
| B 249.678 | 189.594 | ppb | 0.4893 | 0.3 | 2892.51 |
| Ba 389.178 | 98.1595 | ppb | 0.6712 | 0.7 | 1949.28 |
| Be 313.042 | 50.4723 | ppb | 0.0772 | 0.2 | 81843.4 |
| Ca 370.602 | 4951 | ppb | 5.654 | 0.1 | 11455 |
| Cd 226.502 | 49.9662 | ppb | 0.1834 | 0.4 | 1901.03 |
| Co 228.615 | 49.7327 | ppb | 0.1677 | 0.3 | 521.047 |
| Cr 267.716 | 101.483 | ppb | 0.2817 | 0.3 | 5070.31 |
| Cu 324.754 | 100.756 | ppb | 0.9675 | 1.0 | 7321.05 |
| Fe 271.441 | 4999.90 | ppb | 8.9060 | 0.2 | 7054.33 |
| K 766.491 | 5027.73 | ppb | 7.9967 | 0.2 | 215402 |
| Mg 279.078 | 4847.30 | ppb | 14.1252 | 0.3 | 11784.3 |
| Mn 257.610 | 519.584 | ppb | 0.6017 | 0.1 | 107536 |
| Mo 202.032 | 98.3882 | ppb | 0.7538 | 0.8 | 614.824 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 4623.25 | ppb | 44.8492 | 1.0 | 239.195 |
| Ni 231.604 | 100.049 | ppb | 0.1506 | 0.2 | 272.650 |
| Pb 220.353 | 504.081 | ppb | 1.7337 | 0.3 | 718.854 |
| Sb 206.834 | 50.1165 | ppb | 0.2151 | 0.4 | 66.8946 |
| Se 196.026 | 96.3805 | ppb | 4.0317 | 4.2 | 39.9850 |
| Sn 189.925 | 205.240 | ppb | 2.7855 | 1.4 | 129.571 |
| Sr 216.596 | 97.3957 | ppb | 0.5634 | 0.6 | 1070.04 |
| Ti 334.941 | 99.6888 | ppb | 0.1559 | 0.2 | 27608.5 |
| Tl 190.794 | 37.3384 | ppb | 0.6250 | 1.7 | 30.1538 |
| V 292.401 | 99.3000 | ppb | 0.0754 | 0.1 | 2549.95 |
| Zn 206.200 | 101.381 | ppb | 1.6793 | 1.7 | 92.2189 |

**680-106218-a-1-a (Samp)** **10/15/2014, 3:01:17 PM** **Rack 2, Tube 5**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.3566u | 0.0054u | 0.0316u |
| Al 308.215 | 22790.9 | 22850.1 | 22762.9 |
| As 188.980 | 6.6916 | 7.9521 | 6.5362 |
| B 249.678 | 9.4092 | 9.2609 | 8.5525 |
| Ba 389.178 | 213.531 | 212.318 | 211.731 |
| Be 313.042 | 0.5105 | 0.5029 | 0.5025 |
| Ca 370.602 | 8659 | 8641 | 8557 |
| Cd 226.502 | 0.7358 | 0.8325 | 0.8654 |
| Co 228.615 | 1.8159 | 1.4352 | 2.2370 |
| Cr 267.716 | 28.1312 | 28.1627 | 28.0369 |
| Cu 324.754 | 26.6930 | 26.1247 | 26.9192 |
| Fe 271.441 | 12036.0 | 12048.7 | 11997.9 |
| K 766.491 | 664.771 | 666.541 | 663.348 |
| Mg 279.078 | 1039.27 | 1030.66 | 1031.22 |
| Mn 257.610 | 120.099 | 119.956 | 119.315 |
| Mo 202.032 | 1.2400 | 1.2523 | 0.5906 |
| Na 330.237 | 347.945 | 227.111u | 208.939u |
| Ni 231.604 | 8.3050 | 8.0436 | 7.6990 |
| Pb 220.353 | 443.766 | 442.578 | 438.850 |
| Sb 206.834 | -0.7265u | -1.2884u | 3.6719 |
| Se 196.026 | 3.2796 | 7.5442 | 5.9437 |
| Sn 189.925 | 15.3137 | 14.4124 | 13.5361 |
| Sr 216.596 | 46.4406 | 45.4992 | 45.8101 |
| Ti 334.941 | 357.441 | 358.184 | 356.302 |
| Tl 190.794 | 2.0976 | 1.8707 | 0.3079u |
| V 292.401 | 21.6276 | 21.7768 | 21.8429 |
| Zn 206.200 | 331.926 | 335.130 | 327.676 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1065 | ppb | 0.2170 | 203.7 | -21.2898 |
| Al 308.215 | 22801.3 | ppb | 44.5363 | 0.2 | 151300 |
| As 188.980 | 7.0600 | ppb | 0.7765 | 11.0 | 1.5043 |
| B 249.678 | 9.0742 | ppb | 0.4579 | 5.0 | 147.505 |
| Ba 389.178 | 212.527 | ppb | 0.9181 | 0.4 | 4266.90 |
| Be 313.042 | 0.5053 | ppb | 0.0045 | 0.9 | 510.422 |
| Ca 370.602 | 8619 | ppb | 54.39 | 0.6 | 19947 |
| Cd 226.502 | 0.8112 | ppb | 0.0674 | 8.3 | 86.4848 |
| Co 228.615 | 1.8293 | ppb | 0.4010 | 21.9 | 29.8115 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 28.1103 | ppb | 0.0655 | 0.2 | 1432.52 |
| Cu 324.754 | 26.5790 | ppb | 0.4093 | 1.5 | 2118.74 |
| Fe 271.441 | 12027.6 | ppb | 26.4415 | 0.2 | 16945.2 |
| K 766.491 | 664.887 | ppb | 1.5995 | 0.2 | 28767.7 |
| Mg 279.078 | 1033.72 | ppb | 4.8182 | 0.5 | 2520.43 |
| Mn 257.610 | 119.790 | ppb | 0.4178 | 0.3 | 24854.2 |
| Mo 202.032 | 1.0276 | ppb | 0.3785 | 36.8 | 12.1011 |
| Na 330.237 | 261.332 | ppb | 75.5581 | 28.9 | 22.7608 |
| Ni 231.604 | 8.0159 | ppb | 0.3039 | 3.8 | 18.3485 |
| Pb 220.353 | 441.731 | ppb | 2.5651 | 0.6 | 629.185 |
| Sb 206.834 | 0.5523 | ppb | 2.7162 | 491.8 | 2.4968 |
| Se 196.026 | 5.5891 | ppb | 2.1543 | 38.5 | 5.0059 |
| Sn 189.925 | 14.4207 | ppb | 0.8888 | 6.2 | 4.1086 |
| Sr 216.596 | 45.9166 | ppb | 0.4797 | 1.0 | 519.717 |
| Ti 334.941 | 357.309 | ppb | 0.9477 | 0.3 | 99088.9 |
| Tl 190.794 | 1.4254 | ppb | 0.9744 | 68.4 | -5.9208 |
| V 292.401 | 21.7491 | ppb | 0.1103 | 0.5 | 564.707 |
| Zn 206.200 | 331.578 | ppb | 3.7391 | 1.1 | 299.815 |

**680-106218-a-2-a (Samp)** **10/15/2014, 3:05:32 PM** **Rack 2, Tube 6**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.4464u | -0.3595u | -0.5946u |
| Al 308.215 | 59199.6 | 59317.9 | 59203.9 |
| As 188.980 | 12.9191 | 12.4739 | 4.4625 |
| B 249.678 | 7.3952 | 7.3199 | 7.9767 |
| Ba 389.178 | 91.1152 | 90.9658 | 90.5007 |
| Be 313.042 | 1.3520 | 1.3690 | 1.3477 |
| Ca 370.602 | 4129 | 4169 | 4159 |
| Cd 226.502 | -0.1994 | -0.3429 | -0.1089 |
| Co 228.615 | 2.9848 | 2.8239 | 3.1846 |
| Cr 267.716 | 65.9604 | 66.5704 | 65.9969 |
| Cu 324.754 | 8.5664 | 8.8399 | 8.5928 |
| Fe 271.441 | 15279.4 | 15342.8 | 15261.5 |
| K 766.491 | 655.876 | 654.371 | 657.268 |
| Mg 279.078 | 998.877 | 1004.15 | 1001.87 |
| Mn 257.610 | 63.2632 | 63.5471 | 63.4604 |
| Mo 202.032 | 1.7573 | 1.2126 | 1.9181 |
| Na 330.237 | 51.9844u | 196.031 | -6.3051u |
| Ni 231.604 | 14.9368 | 14.2864 | 14.3307 |
| Pb 220.353 | 126.896 | 126.645 | 125.284 |
| Sb 206.834 | 1.5138 | -0.1626 | -1.0339u |
| Se 196.026 | 0.1035 | 0.1845 | 7.7372 |
| Sn 189.925 | 7.4356 | 11.4456 | 12.7350 |
| Sr 216.596 | 67.5560 | 68.3810 | 67.5856 |
| Ti 334.941 | 862.938 | 865.306 | 863.224 |
| Tl 190.794 | -1.8833u | -0.1304u | -0.1287u |
| V 292.401 | 20.8163 | 20.5268 | 20.7501 |
| Zn 206.200 | 33.4486 | 33.1769 | 30.2711 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.4668 | ppb | 0.1188 | 25.5 | -50.3731 |
| Al 308.215 | 59240.5 | ppb | 67.1354 | 0.1 | 392435 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 9.9519 | ppb | 4.7591 | 47.8 | 3.3463 |
| B 249.678 | 7.5639 | ppb | 0.3595 | 4.8 | 117.968 |
| Ba 389.178 | 90.8605 | ppb | 0.3205 | 0.4 | 1800.89 |
| Be 313.042 | 1.3562 | ppb | 0.0113 | 0.8 | 1897.26 |
| Ca 370.602 | 4152 | ppb | 20.93 | 0.5 | 9768 |
| Cd 226.502 | -0.2171 | ppb | 0.1180 | 54.4 | 59.3956 |
| Co 228.615 | 2.9978 | ppb | 0.1807 | 6.0 | 51.7864 |
| Cr 267.716 | 66.1759 | ppb | 0.3422 | 0.5 | 3323.94 |
| Cu 324.754 | 8.6664 | ppb | 0.1508 | 1.7 | 863.776 |
| Fe 271.441 | 15294.6 | ppb | 42.6979 | 0.3 | 21546.2 |
| K 766.491 | 655.838 | ppb | 1.4489 | 0.2 | 28380.7 |
| Mg 279.078 | 1001.63 | ppb | 2.6463 | 0.3 | 2431.16 |
| Mn 257.610 | 63.4236 | ppb | 0.1455 | 0.2 | 13206.8 |
| Mo 202.032 | 1.6294 | ppb | 0.3698 | 22.7 | 15.6895 |
| Na 330.237 | 80.5702 | ppb | 104.153 | 129.3 | 19.8271 |
| Ni 231.604 | 14.5180 | ppb | 0.3634 | 2.5 | 36.6141 |
| Pb 220.353 | 126.275 | ppb | 0.8674 | 0.7 | 178.495 |
| Sb 206.834 | 0.1058 | ppb | 1.2949 | 1224.5 | 2.3841 |
| Se 196.026 | 2.6751 | ppb | 4.3841 | 163.9 | 3.8973 |
| Sn 189.925 | 10.5387 | ppb | 2.7637 | 26.2 | 1.5562 |
| Sr 216.596 | 67.8409 | ppb | 0.4680 | 0.7 | 760.968 |
| Ti 334.941 | 863.823 | ppb | 1.2925 | 0.1 | 239639 |
| Tl 190.794 | -0.7142 | ppb | 1.0125 | 141.8 | -8.4205 |
| V 292.401 | 20.6977 | ppb | 0.1517 | 0.7 | 544.043 |
| Zn 206.200 | 32.2989 | ppb | 1.7614 | 5.5 | 29.5971 |

**680-106218-a-3-a (Samp)** **10/15/2014, 3:09:48 PM** **Rack 2, Tube 7**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.5038u | -0.3062u | -0.5050u |
| Al 308.215 | 46211.8 | 46069.7 | 46100.3 |
| As 188.980 | 9.6081 | 8.7873 | 9.8603 |
| B 249.678 | 6.4584 | 5.8997 | 5.9405 |
| Ba 389.178 | 320.519 | 320.475 | 321.629 |
| Be 313.042 | 1.0562 | 1.0498 | 1.0385 |
| Ca 370.602 | 1767 | 1766 | 1762 |
| Cd 226.502 | -0.0175 | -0.2539 | -0.1266 |
| Co 228.615 | 1.9691 | 1.8822 | 2.3217 |
| Cr 267.716 | 33.0047 | 32.7719 | 33.0168 |
| Cu 324.754 | 9.9011 | 10.0285 | 9.9340 |
| Fe 271.441 | 17351.7 | 17331.6 | 17315.8 |
| K 766.491 | 801.972 | 800.994 | 804.578 |
| Mg 279.078 | 1338.18 | 1332.90 | 1336.18 |
| Mn 257.610 | 80.5900 | 80.5511 | 80.6224 |
| Mo 202.032 | 1.0635 | 1.3816 | 1.7647 |
| Na 330.237 | 183.455 | 119.916u | 122.598u |
| Ni 231.604 | 9.7542 | 8.7914 | 8.7071 |
| Pb 220.353 | 106.618 | 105.983 | 105.229 |
| Sb 206.834 | 1.1308 | 0.2920 | 1.5848 |
| Se 196.026 | -1.6723u | 9.8517 | 14.8814 |
| Sn 189.925 | 10.8513 | 8.5990 | 7.0074 |
| Sr 216.596 | 39.9224 | 39.0879 | 39.7171 |
| Ti 334.941 | 581.661 | 581.081 | 581.323 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -0.5441u | -1.6208u | 2.8188 |
| V 292.401 | 21.8241 | 21.5337 | 21.5351 |
| Zn 206.200 | 39.2776 | 39.6953 | 41.9123 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.4383 | ppb | 0.1145 | 26.1 | -47.6357 |
| Al 308.215 | 46127.3 | ppb | 74.8165 | 0.2 | 305664 |
| As 188.980 | 9.4186 | ppb | 0.5611 | 6.0 | 2.9387 |
| B 249.678 | 6.0995 | ppb | 0.3114 | 5.1 | 91.5240 |
| Ba 389.178 | 320.874 | ppb | 0.6543 | 0.2 | 6467.34 |
| Be 313.042 | 1.0482 | ppb | 0.0090 | 0.9 | 1393.86 |
| Ca 370.602 | 1765 | ppb | 2.794 | 0.2 | 4130 |
| Cd 226.502 | -0.1327 | ppb | 0.1184 | 89.2 | 69.9148 |
| Co 228.615 | 2.0577 | ppb | 0.2328 | 11.3 | 36.7306 |
| Cr 267.716 | 32.9311 | ppb | 0.1381 | 0.4 | 1674.55 |
| Cu 324.754 | 9.9545 | ppb | 0.0662 | 0.7 | 954.951 |
| Fe 271.441 | 17333.0 | ppb | 17.9850 | 0.1 | 24416.7 |
| K 766.491 | 802.515 | ppb | 1.8530 | 0.2 | 34655.2 |
| Mg 279.078 | 1335.75 | ppb | 2.6690 | 0.2 | 3247.04 |
| Mn 257.610 | 80.5878 | ppb | 0.0357 | 0.0 | 16764.5 |
| Mo 202.032 | 1.4033 | ppb | 0.3511 | 25.0 | 14.2018 |
| Na 330.237 | 141.990 | ppb | 35.9348 | 25.3 | 22.6328 |
| Ni 231.604 | 9.0842 | ppb | 0.5817 | 6.4 | 21.7165 |
| Pb 220.353 | 105.943 | ppb | 0.6951 | 0.7 | 149.653 |
| Sb 206.834 | 1.0025 | ppb | 0.6559 | 65.4 | 3.2886 |
| Se 196.026 | 7.6870 | ppb | 8.4865 | 110.4 | 5.8458 |
| Sn 189.925 | 8.8192 | ppb | 1.9314 | 21.9 | 0.4257 |
| Sr 216.596 | 39.5758 | ppb | 0.4348 | 1.1 | 453.694 |
| Ti 334.941 | 581.355 | ppb | 0.2914 | 0.1 | 161260 |
| Tl 190.794 | 0.2179 | ppb | 2.3158 | 1062.6 | -7.7502 |
| V 292.401 | 21.6309 | ppb | 0.1672 | 0.8 | 566.366 |
| Zn 206.200 | 40.2951 | ppb | 1.4161 | 3.5 | 36.8164 |

**680-106194-b-2-a (Samp)** **10/15/2014, 3:14:04 PM** **Rack 2, Tube 8**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 10.2568 | 10.6655 | 9.4240 |
| Al 308.215 | 59562.7 | 59452.9 | 59411.4 |
| As 188.980 | 711.554 | 734.028 | 722.269 |
| B 249.678 | 157.548u | 155.634u | 154.391u |
| Ba 389.178 | 4458.26 | 4440.97 | 4438.60 |
| Be 313.042 | 8.1472 | 8.1142 | 8.1076 |
| Ca 370.602 | 322141 | 323838 | 324601 |
| Cd 226.502 | 155.534 | 152.993 | 152.187 |
| Co 228.615 | 215.125 | 215.241 | 214.904 |
| Cr 267.716 | 2799.53 | 2788.40 | 2790.21 |
| Cu 324.754 | 21252.7 | 21152.0 | 21324.4 |
| Fe 271.441 | 1675998x | 1676099x | 1678176x |
| K 766.491 | 4866.12 | 4858.12 | 4843.79 |
| Mg 279.078 | 45889.4 | 45771.3 | 45819.5 |
| Mn 257.610 | 14112.9 | 14041.6 | 14059.3 |
| Mo 202.032 | 879.119 | 874.802 | 879.095 |
| Na 330.237 | 3404.22u | 3207.00u | 3496.76u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 1580.07 | 1579.81 | 1586.40 |
| Pb 220.353 | 6502.07 | 6495.54 | 6514.81 |
| Sb 206.834 | 41.0455 | 45.9068 | 51.6232 |
| Se 196.026 | 7.2558 | -7.4380 | -0.9058 |
| Sn 189.925 | 659.873 | 648.285 | 652.343 |
| Sr 216.596 | 1080.36 | 1076.39 | 1072.96 |
| Ti 334.941 | 1859.04 | 1851.47 | 1851.62 |
| Tl 190.794 | -81.0338u | -76.6326u | -76.8164u |
| V 292.401 | 296.392 | 295.729 | 295.190 |
| Zn 206.200 | 11496.7 | 11496.6 | 11504.5 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 10.1154b | ppb | 0.6327 | 6.3 | 542.508 |
| Al 308.215 | 59475.7b | ppb | 78.2194 | 0.1 | 396820 |
| As 188.980 | 722.617b | ppb | 11.2413 | 1.6 | 376.772 |
| B 249.678 | 155.858b | ppb | 1.5906 | 1.0 | -1101.08 |
| Ba 389.178 | 4445.94b | ppb | 10.7336 | 0.2 | 91012.8 |
| Be 313.042 | 8.1230b | ppb | 0.0212 | 0.3 | 12841.7 |
| Ca 370.602 | 323527b | ppb | 1259 | 0.4 | 732588 |
| Cd 226.502 | 153.572b | ppb | 1.7469 | 1.1 | 11711.2 |
| Co 228.615 | 215.090b | ppb | 0.1707 | 0.1 | 2364.99 |
| Cr 267.716 | 2792.71b | ppb | 5.9754 | 0.2 | 139403 |
| Cu 324.754 | 21243.0b | ppb | 86.6152 | 0.4 | 1490880 |
| Fe 271.441 | 1676757xb | ppb | 1229.46 | 0.1 | 2361342 |
| K 766.491 | 4856.01b | ppb | 11.3135 | 0.2 | 208056 |
| Mg 279.078 | 45826.7b | ppb | 59.3824 | 0.1 | 111078 |
| Mn 257.610 | 14071.3b | ppb | 37.1244 | 0.3 | 2914948 |
| Mo 202.032 | 877.672b | ppb | 2.4857 | 0.3 | 5366.28 |
| Na 330.237 | 3369.33b | ppb | 147.994 | 4.4 | -495.988 |
| Ni 231.604 | 1582.09b | ppb | 3.7330 | 0.2 | 4504.54 |
| Pb 220.353 | 6504.14b | ppb | 9.7979 | 0.2 | 9176.37 |
| Sb 206.834 | 46.1918b | ppb | 5.2946 | 11.5 | 126.810 |
| Se 196.026 | -0.3627b | ppb | 7.3619 | 2030.0 | 17.8961 |
| Sn 189.925 | 653.500b | ppb | 5.8802 | 0.9 | 424.291 |
| Sr 216.596 | 1076.57b | ppb | 3.7015 | 0.3 | 13600.3 |
| Ti 334.941 | 1854.04b | ppb | 4.3236 | 0.2 | 514669 |
| Tl 190.794 | -78.1610b | ppb | 2.4897 | 3.2 | -277.855 |
| V 292.401 | 295.771b | ppb | 0.6020 | 0.2 | 8026.38 |
| Zn 206.200 | 11499.3b | ppb | 4.5582 | 0.0 | 10304.8 |

**680-106194-b-2-aSD (Samp)** **10/15/2014, 3:18:20 PM** **Rack 2, Tube 9**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 2.3114 | 2.0039 | 2.7949 |
| Al 308.215 | 12305.7 | 11832.5 | 11399.6 |
| As 188.980 | 163.032 | 147.726 | 152.174 |
| B 249.678 | 36.5935u | 36.9908u | 38.0914u |
| Ba 389.178 | 1014.73 | 977.146 | 943.766 |
| Be 313.042 | 1.8214 | 1.7518 | 1.6947 |
| Ca 370.602 | 72800 | 70044 | 67684 |
| Cd 226.502 | 34.2683 | 30.9757 | 28.9630 |
| Co 228.615 | 49.6263 | 47.0576 | 46.0073 |
| Cr 267.716 | 642.657 | 618.648 | 599.886 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 4605.16 | 4418.92 | 4225.46 |
| Fe 271.441 | 396979 | 381937 | 368828 |
| K 766.491 | 861.625 | 834.199 | 804.630 |
| Mg 279.078 | 10769.0 | 10369.9 | 10029.3 |
| Mn 257.610 | 3297.88 | 3178.51 | 3079.50 |
| Mo 202.032 | 199.725 | 193.658 | 185.399 |
| Na 330.237 | 721.694u | 872.271u | 943.460u |
| Ni 231.604 | 375.705 | 359.964 | 349.091 |
| Pb 220.353 | 1555.15 | 1500.31 | 1449.43 |
| Sb 206.834 | 14.9409 | 11.6140 | 12.3893 |
| Se 196.026 | 7.1242 | 2.8893 | 9.6675 |
| Sn 189.925 | 157.403 | 148.977 | 141.250 |
| Sr 216.596 | 247.382 | 237.120 | 229.706 |
| Ti 334.941 | 412.351 | 397.251 | 383.744 |
| Tl 190.794 | -15.8959u | -11.7026u | -6.8382u |
| V 292.401 | 66.8504 | 63.8528 | 61.4897 |
| Zn 206.200 | 2749.56 | 2663.38 | 2562.16 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 2.3700 | ppb | 0.3987 | 16.8 | 120.636 |
| Al 308.215 | 11845.9 | ppb | 453.171 | 3.8 | 79434.1 |
| As 188.980 | 154.310 | ppb | 7.8734 | 5.1 | 78.4218 |
| B 249.678 | 37.2252 | ppb | 0.7760 | 2.1 | -199.383 |
| Ba 389.178 | 978.546 | ppb | 35.5007 | 3.6 | 19999.4 |
| Be 313.042 | 1.7560 | ppb | 0.0634 | 3.6 | 2528.35 |
| Ca 370.602 | 70176 | ppb | 2561 | 3.6 | 158729 |
| Cd 226.502 | 31.4023 | ppb | 2.6783 | 8.5 | 2547.39 |
| Co 228.615 | 47.5638 | ppb | 1.8618 | 3.9 | 525.985 |
| Cr 267.716 | 620.397 | ppb | 21.4391 | 3.5 | 30997.2 |
| Cu 324.754 | 4416.51 | ppb | 189.862 | 4.3 | 310172 |
| Fe 271.441 | 382582 | ppb | 14086.5 | 3.7 | 538787 |
| K 766.491 | 833.484 | ppb | 28.5040 | 3.4 | 35980.0 |
| Mg 279.078 | 10389.4 | ppb | 370.247 | 3.6 | 25197.8 |
| Mn 257.610 | 3185.30 | ppb | 109.347 | 3.4 | 659894 |
| Mo 202.032 | 192.927 | ppb | 7.1910 | 3.7 | 1183.89 |
| Na 330.237 | 845.809 | ppb | 113.227 | 13.4 | -93.4142 |
| Ni 231.604 | 361.587 | ppb | 13.3805 | 3.7 | 1025.81 |
| Pb 220.353 | 1501.63 | ppb | 52.8729 | 3.5 | 2119.18 |
| Sb 206.834 | 12.9814 | ppb | 1.7407 | 13.4 | 32.9891 |
| Se 196.026 | 6.5603 | ppb | 3.4241 | 52.2 | 8.7545 |
| Sn 189.925 | 149.210 | ppb | 8.0791 | 5.4 | 92.7300 |
| Sr 216.596 | 238.070 | ppb | 8.8764 | 3.7 | 3023.76 |
| Ti 334.941 | 397.782 | ppb | 14.3109 | 3.6 | 110376 |
| Tl 190.794 | -11.4789 | ppb | 4.5330 | 39.5 | -61.8237 |
| V 292.401 | 64.0643 | ppb | 2.6866 | 4.2 | 1738.86 |
| Zn 206.200 | 2658.37 | ppb | 93.8025 | 3.5 | 2383.40 |

**680-106194-b-2-aPDS (Samp)** **10/15/2014, 3:22:37 PM** **Rack 2, Tube 10**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 105.774 | 107.334 | 105.904 |
| Al 308.215 | 60348.3 | 60479.6 | 60329.4 |
| As 188.980 | 821.499 | 834.165 | 833.845 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 345.396 | 347.883 | 348.685 |
| Ba 389.178 | 4471.39 | 4481.61 | 4472.16 |
| Be 313.042 | 100.899 | 100.870 | 100.642 |
| Ca 370.602 | 326174 | 326675 | 327636 |
| Cd 226.502 | 244.629 | 247.070 | 245.078 |
| Co 228.615 | 301.109 | 300.679 | 302.472 |
| Cr 267.716 | 2848.34 | 2852.92 | 2852.23 |
| Cu 324.754 | 21288.0 | 21220.0 | 21208.3 |
| Fe 271.441 | 1656064x | 1663188x | 1664961x |
| K 766.491 | 18098.2 | 18110.9 | 18040.7 |
| Mg 279.078 | 54243.8 | 54410.0 | 54439.0 |
| Mn 257.610 | 14676.3 | 14777.8 | 14759.2 |
| Mo 202.032 | 959.691 | 961.279 | 966.216 |
| Na 330.237 | 12850.7u | 12938.3u | 12969.4u |
| Ni 231.604 | 1647.33 | 1650.85 | 1655.25 |
| Pb 220.353 | 6462.55 | 6485.31 | 6492.33 |
| Sb 206.834 | 139.574 | 143.030 | 140.499 |
| Se 196.026 | 84.6566 | 98.9389 | 80.1560 |
| Sn 189.925 | 737.568 | 726.020 | 728.308 |
| Sr 216.596 | 1152.78 | 1155.25 | 1157.11 |
| Ti 334.941 | 1930.64 | 1932.47 | 1927.57 |
| Tl 190.794 | -50.2326u | -62.9060u | -60.0923u |
| V 292.401 | 387.758 | 387.695 | 386.976 |
| Zn 206.200 | 11347.4 | 11422.5 | 11414.1 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 106.337b | ppb | 0.8653 | 0.8 | 7986.82 |
| Al 308.215 | 60385.8b | ppb | 81.7975 | 0.1 | 402839 |
| As 188.980 | 829.836b | ppb | 7.2221 | 0.9 | 434.334 |
| B 249.678 | 347.321b | ppb | 1.7149 | 0.5 | 1815.81 |
| Ba 389.178 | 4475.05b | ppb | 5.6930 | 0.1 | 91609.7 |
| Be 313.042 | 100.804b | ppb | 0.1410 | 0.1 | 163718 |
| Ca 370.602 | 326828b | ppb | 742.9 | 0.2 | 740360 |
| Cd 226.502 | 245.592b | ppb | 1.2990 | 0.5 | 15120.0 |
| Co 228.615 | 301.420b | ppb | 0.9362 | 0.3 | 3263.22 |
| Cr 267.716 | 2851.16b | ppb | 2.4693 | 0.1 | 142301 |
| Cu 324.754 | 21238.8b | ppb | 43.0258 | 0.2 | 1490577 |
| Fe 271.441 | 1661404xb | ppb | 4708.68 | 0.3 | 2339731 |
| K 766.491 | 18083.3b | ppb | 37.4205 | 0.2 | 773894 |
| Mg 279.078 | 54364.3b | ppb | 105.302 | 0.2 | 131807 |
| Mn 257.610 | 14737.8b | ppb | 54.0807 | 0.4 | 3052809 |
| Mo 202.032 | 962.395b | ppb | 3.4023 | 0.4 | 5890.91 |
| Na 330.237 | 12919.5b | ppb | 61.5587 | 0.5 | -35.4027 |
| Ni 231.604 | 1651.15b | ppb | 3.9665 | 0.2 | 4694.89 |
| Pb 220.353 | 6480.06b | ppb | 15.5642 | 0.2 | 9142.63 |
| Sb 206.834 | 141.034b | ppb | 1.7888 | 1.3 | 251.010 |
| Se 196.026 | 87.9172b | ppb | 9.8068 | 11.2 | 51.9520 |
| Sn 189.925 | 730.632b | ppb | 6.1146 | 0.8 | 475.007 |
| Sr 216.596 | 1155.05b | ppb | 2.1735 | 0.2 | 14447.0 |
| Ti 334.941 | 1930.23b | ppb | 2.4766 | 0.1 | 535820 |
| Tl 190.794 | -57.7436b | ppb | 6.6551 | 11.5 | -256.277 |
| V 292.401 | 387.476b | ppb | 0.4342 | 0.1 | 10384.4 |
| Zn 206.200 | 11394.7b | ppb | 41.1384 | 0.4 | 10210.7 |

**680-106194-b-2-b ms (Samp)** **10/15/2014, 3:26:54 PM** **Rack 2, Tube 11**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 69.2306 | 69.8229 | 69.8139 |
| Al 308.215 | 80282.1 | 80358.4 | 80265.1 |
| As 188.980 | 390.511 | 382.329 | 390.633 |
| B 249.678 | 368.465 | 369.889 | 369.763 |
| Ba 389.178 | 2244.15 | 2243.42 | 2245.23 |
| Be 313.042 | 53.2668 | 53.2920 | 53.3575 |
| Ca 370.602 | 813580 | 817945 | 815070 |
| Cd 226.502 | 108.166 | 107.935 | 107.313 |
| Co 228.615 | 195.813 | 195.201 | 195.179 |
| Cr 267.716 | 3195.53 | 3203.80 | 3197.85 |
| Cu 324.754 | 28241.5 | 28086.6 | 28372.7 |
| Fe 271.441 | 1439075x | 1441890x | 1436635x |
| K 766.491 | 14697.1 | 14677.2 | 14660.0 |
| Mg 279.078 | 36859.6 | 36621.9 | 36861.1 |
| Mn 257.610 | 16386.3 | 16400.5 | 16383.5 |
| Mo 202.032 | 1211.13x | 1214.42x | 1214.72x |
| Na 330.237 | 9154.65u | 8943.91u | 8953.77u |
| Ni 231.604 | 1566.40 | 1564.49 | 1559.80 |
| Pb 220.353 | 6405.88 | 6410.93 | 6393.99 |
| Sb 206.834 | 79.1561 | 81.6773 | 73.9988 |
| Se 196.026 | 75.8010 | 71.8846 | 93.5582 |
| Sn 189.925 | 1819.81 | 1813.75 | 1808.01 |
| Sr 216.596 | 1260.24 | 1262.03 | 1260.67 |
| Ti 334.941 | 1791.85 | 1796.08 | 1794.76 |
| Tl 190.794 | -39.0063u | -39.9312u | -38.6432u |
| V 292.401 | 392.679 | 394.008 | 393.362 |
| Zn 206.200 | 10741.6 | 10777.6 | 10756.4 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 69.6225b | ppb | 0.3394 | 0.5 | 5185.52 |
| Al 308.215 | 80301.9b | ppb | 49.7157 | 0.1 | 534278 |
| As 188.980 | 387.825b | ppb | 4.7594 | 1.2 | 198.475 |
| B 249.678 | 369.372b | ppb | 0.7881 | 0.2 | 2610.86 |
| Ba 389.178 | 2244.26b | ppb | 0.9101 | 0.0 | 46235.0 |
| Be 313.042 | 53.3055b | ppb | 0.0468 | 0.1 | 86517.1 |
| Ca 370.602 | 815532b | ppb | 2219 | 0.3 | 1872224 |
| Cd 226.502 | 107.805b | ppb | 0.4412 | 0.4 | 9175.78 |
| Co 228.615 | 195.397b | ppb | 0.3598 | 0.2 | 2136.52 |
| Cr 267.716 | 3199.06b | ppb | 4.2687 | 0.1 | 159476 |
| Cu 324.754 | 28233.6b | ppb | 143.208 | 0.5 | 1981089 |
| Fe 271.441 | 1439200xb | ppb | 2629.86 | 0.2 | 2026799 |
| K 766.491 | 14678.1b | ppb | 18.5832 | 0.1 | 628228 |
| Mg 279.078 | 36780.9b | ppb | 137.658 | 0.4 | 89050.6 |
| Mn 257.610 | 16390.1b | ppb | 9.0814 | 0.1 | 3393749 |
| Mo 202.032 | 1213.42xb | ppb | 1.9900 | 0.2 | 7453.75 |
| Na 330.237 | 9017.44b | ppb | 118.926 | 1.3 | -154.120 |
| Ni 231.604 | 1563.56b | ppb | 3.3946 | 0.2 | 4435.69 |
| Pb 220.353 | 6403.60b | ppb | 8.6987 | 0.1 | 9046.99 |
| Sb 206.834 | 78.2774b | ppb | 3.9139 | 5.0 | 161.493 |
| Se 196.026 | 80.4146b | ppb | 11.5499 | 14.4 | 47.7101 |
| Sn 189.925 | 1813.86b | ppb | 5.9017 | 0.3 | 1187.21 |
| Sr 216.596 | 1260.98b | ppb | 0.9327 | 0.1 | 15531.6 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 1794.23b | ppb | 2.1630 | 0.1 | 498030 |
| Tl 190.794 | -39.1936b | ppb | 0.6641 | 1.7 | -211.945 |
| V 292.401 | 393.350b | ppb | 0.6647 | 0.2 | 10401.3 |
| Zn 206.200 | 10758.6b | ppb | 18.1025 | 0.2 | 9644.29 |

**680-106194-b-2-c msd (Samp)** **10/15/2014, 3:31:11 PM** **Rack 2, Tube 12**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 62.1761 | 62.5746 | 63.7844 |
| Al 308.215 | 61325.5 | 61368.4 | 61294.3 |
| As 188.980 | 466.210 | 464.030 | 459.422 |
| B 249.678 | 311.318 | 318.905 | 318.340 |
| Ba 389.178 | 2468.81 | 2470.90 | 2464.20 |
| Be 313.042 | 51.7696 | 51.7500 | 51.5950 |
| Ca 370.602 | 1065499x | 1059515x | 1067435x |
| Cd 226.502 | 106.699 | 108.344 | 108.479 |
| Co 228.615 | 269.552 | 269.481 | 267.198 |
| Cr 267.716 | 3280.56 | 3273.37 | 3261.79 |
| Cu 324.754 | 20116.9 | 20128.9 | 20205.0 |
| Fe 271.441 | 1693467x | 1686316x | 1686112x |
| K 766.491 | 14461.3 | 14490.6 | 14471.2 |
| Mg 279.078 | 169180 | 169057 | 168830 |
| Mn 257.610 | 15167.0 | 15153.4 | 15191.8 |
| Mo 202.032 | 1140.18 | 1137.38 | 1137.27 |
| Na 330.237 | 8532.28u | 8786.19u | 8693.32u |
| Ni 231.604 | 1882.73 | 1878.79 | 1870.73 |
| Pb 220.353 | 3764.16 | 3756.09 | 3754.85 |
| Sb 206.834 | 75.9556 | 63.2772 | 75.9765 |
| Se 196.026 | 74.4378 | 71.7842 | 91.7238 |
| Sn 189.925 | 736.366 | 731.123 | 722.654 |
| Sr 216.596 | 1486.94 | 1483.03 | 1477.71 |
| Ti 334.941 | 1619.19 | 1619.83 | 1614.65 |
| Tl 190.794 | -56.7668u | -52.4603u | -61.1867u |
| V 292.401 | 631.734 | 631.630 | 628.406 |
| Zn 206.200 | 8962.76 | 8938.76 | 8923.07 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 62.8451b | ppb | 0.8376 | 1.3 | 4607.09 |
| Al 308.215 | 61329.4b | ppb | 37.1963 | 0.1 | 409167 |
| As 188.980 | 463.221b | ppb | 3.4659 | 0.7 | 237.460 |
| B 249.678 | 316.187b | ppb | 4.2267 | 1.3 | 1281.36 |
| Ba 389.178 | 2467.97b | ppb | 3.4256 | 0.1 | 51064.5 |
| Be 313.042 | 51.7049b | ppb | 0.0956 | 0.2 | 83991.5 |
| Ca 370.602 | 1064150xb | ppb | 4129 | 0.4 | 2444422 |
| Cd 226.502 | 107.841b | ppb | 0.9907 | 0.9 | 10073.2 |
| Co 228.615 | 268.744b | ppb | 1.3389 | 0.5 | 2915.42 |
| Cr 267.716 | 3271.91b | ppb | 9.4702 | 0.3 | 163193 |
| Cu 324.754 | 20150.3b | ppb | 47.8113 | 0.2 | 1414251 |
| Fe 271.441 | 1688632xb | ppb | 4188.56 | 0.2 | 2378073 |
| K 766.491 | 14474.4b | ppb | 14.9006 | 0.1 | 619511 |
| Mg 279.078 | 169023b | ppb | 177.411 | 0.1 | 410361 |
| Mn 257.610 | 15170.7b | ppb | 19.4767 | 0.1 | 3143265 |
| Mo 202.032 | 1138.28b | ppb | 1.6532 | 0.1 | 6977.80 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 8670.60b | ppb | 128.469 | 1.5 | -184.396 |
| Ni 231.604 | 1877.42b | ppb | 6.1181 | 0.3 | 5324.06 |
| Pb 220.353 | 3758.37b | ppb | 5.0559 | 0.1 | 5260.16 |
| Sb 206.834 | 71.7364b | ppb | 7.3259 | 10.2 | 162.199 |
| Se 196.026 | 79.3153b | ppb | 10.8277 | 13.7 | 48.9544 |
| Sn 189.925 | 730.048b | ppb | 6.9190 | 0.9 | 474.621 |
| Sr 216.596 | 1482.56b | ppb | 4.6313 | 0.3 | 18294.4 |
| Ti 334.941 | 1617.89b | ppb | 2.8276 | 0.2 | 449349 |
| Tl 190.794 | -56.8046b | ppb | 4.3633 | 7.7 | -259.013 |
| V 292.401 | 630.590b | ppb | 1.8923 | 0.3 | 16647.1 |
| Zn 206.200 | 8941.53b | ppb | 19.9897 | 0.2 | 7995.23 |

**Cont Calib Verif (CCV)** **10/15/2014, 3:35:27 PM** **Rack 2, Tube 13**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 490.100 | 489.945 | 489.894 |
| Al 308.215 | 4826.03 | 4816.10 | 4774.33 |
| As 188.980 | 458.252 | 463.011 | 457.709 |
| B 249.678 | 485.982 | 486.661 | 488.340 |
| Ba 389.178 | 4842.46 | 4831.38 | 4824.34 |
| Be 313.042 | 488.894 | 487.303 | 485.413 |
| Ca 370.602 | 5054 | 5044 | 5018 |
| Cd 226.502 | 489.236 | 490.650 | 487.059 |
| Co 228.615 | 497.452 | 497.608 | 496.226 |
| Cr 267.716 | 4883.59 | 4874.16 | 4874.36 |
| Cu 324.754 | 5061.26 | 5105.77 | 5044.56 |
| Fe 271.441 | 5073.37 | 5061.69 | 5030.64 |
| K 766.491 | 10095.7 | 10084.1 | 10101.9 |
| Mg 279.078 | 4904.59 | 4895.94 | 4885.64 |
| Mn 257.610 | 5017.28 | 4997.34 | 4991.50 |
| Mo 202.032 | 494.180 | 494.104 | 495.681 |
| Na 330.237 | 7428.98 | 7351.30 | 7612.73 |
| Ni 231.604 | 2491.44 | 2484.69 | 2484.94 |
| Pb 220.353 | 498.230 | 500.211 | 494.435 |
| Sb 206.834 | 926.599 | 927.845 | 917.812 |
| Se 196.026 | 4813.32 | 4835.46 | 4830.43 |
| Sn 189.925 | 4914.79 | 4921.46 | 4917.33 |
| Sr 216.596 | 2436.64 | 2431.28 | 2426.89 |
| Ti 334.941 | 483.404 | 482.311 | 481.937 |
| Tl 190.794 | 4998.21 | 4972.81 | 5004.13 |
| V 292.401 | 4864.04 | 4855.67 | 4857.87 |
| Zn 206.200 | 2452.65 | 2437.15 | 2441.19 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 489.980 | ppb | 0.1072 | 0.0 | 37843.7 | 97.99594 |
| Al 308.215 | 4805.49 | ppb | 27.4345 | 0.6 | 32701.1 | 96.10973 |
| As 188.980 | 459.657 | ppb | 2.9171 | 0.6 | 244.087 | 91.93143 |
| B 249.678 | 486.994 | ppb | 1.2139 | 0.2 | 7401.09 | 97.39886 |
| Ba 389.178 | 4832.72 | ppb | 9.1366 | 0.2 | 97983.8 | 96.65448 |
| Be 313.042 | 487.203 | ppb | 1.7424 | 0.4 | 793009 | 97.44063 |
| Ca 370.602 | 5039 | ppb | 18.62 | 0.4 | 11917 | 100.78027 |
| Cd 226.502 | 488.982 | ppb | 1.8087 | 0.4 | 18331.1 | 97.79636 |
| Co 228.615 | 497.095 | ppb | 0.7571 | 0.2 | 5185.47 | 99.41907 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Cr 267.716 | 4877.37 | ppb | 5.3911 | 0.1 | 242030 | 97.54739 |
| Cu 324.754 | 5070.53 | ppb | 31.6382 | 0.6 | 355832 | 101.41061 |
| Fe 271.441 | 5055.23 | ppb | 22.0829 | 0.4 | 7223.37 | 101.10464 |
| K 766.491 | 10093.9 | ppb | 9.0055 | 0.1 | 432124 | 100.93911 |
| Mg 279.078 | 4895.39 | ppb | 9.4850 | 0.2 | 11818.9 | 97.90781 |
| Mn 257.610 | 5002.04 | ppb | 13.5155 | 0.3 | 1034472 | 100.04080 |
| Mo 202.032 | 494.655 | ppb | 0.8896 | 0.2 | 3062.35 | 98.93102 |
| Na 330.237 | 7464.34 | ppb | 134.253 | 1.8 | 316.674 | 99.52451 |
| Ni 231.604 | 2487.02 | ppb | 3.8309 | 0.2 | 6883.99 | 99.48093 |
| Pb 220.353 | 497.625 | ppb | 2.9351 | 0.6 | 713.184 | 99.52502 |
| Sb 206.834 | 924.085 | ppb | 5.4683 | 0.6 | 1263.91 | 92.40852 |
| Se 196.026 | 4826.41 | ppb | 11.6061 | 0.2 | 1861.97 | 96.52814 |
| Sn 189.925 | 4917.86 | ppb | 3.3659 | 0.1 | 3228.05 | 98.35715 |
| Sr 216.596 | 2431.60 | ppb | 4.8875 | 0.2 | 26510.3 | 97.26410 |
| Ti 334.941 | 482.551 | ppb | 0.7623 | 0.2 | 133845 | 96.51018 |
| Tl 190.794 | 4991.72 | ppb | 16.6366 | 0.3 | 4882.30 | 99.83437 |
| V 292.401 | 4859.20 | ppb | 4.3408 | 0.1 | 125658 | 97.18391 |
| Zn 206.200 | 2443.66 | ppb | 8.0404 | 0.3 | 2193.14 | 97.74656 |

**Cont Calib Blank (CCB)** **10/15/2014, 3:39:43 PM** **Rack 2, Tube 14**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0335 | 0.4325 | -0.3304u |
| Al 308.215 | 11.1574 | 13.0468 | 10.1507 |
| As 188.980 | -2.4636u | 7.7857 | 6.1271 |
| B 249.678 | 11.0751 | 9.9144 | 9.1390 |
| Ba 389.178 | 0.4521 | 0.5972 | -0.0848u |
| Be 313.042 | 0.0490 | 0.0478 | 0.0419 |
| Ca 370.602 | 14.17 | 20.66 | 21.56 |
| Cd 226.502 | -0.0455u | 0.1500 | 0.0464 |
| Co 228.615 | -0.2902u | -0.1284u | 0.3193 |
| Cr 267.716 | 0.6673 | 0.5293 | 0.4777 |
| Cu 324.754 | 0.5807 | 0.7398 | 0.6940 |
| Fe 271.441 | 32.9534 | 34.5754 | 40.0814 |
| K 766.491 | -1.0300u | -1.3343u | -1.4566u |
| Mg 279.078 | 3.2302 | 0.4733 | 1.6632 |
| Mn 257.610 | 0.6764 | 0.7183 | 0.7696 |
| Mo 202.032 | 1.7677 | 1.4860 | 1.4462 |
| Na 330.237 | -32.5927u | -88.1304u | -39.0807u |
| Ni 231.604 | 1.0390 | 0.7502 | 0.1247 |
| Pb 220.353 | -0.1314u | 0.9452 | 0.1341 |
| Sb 206.834 | 6.2156 | 5.7151 | 4.5951 |
| Se 196.026 | 12.5905 | 1.9135 | 5.2736 |
| Sn 189.925 | 3.6453 | 4.3676 | 0.8538 |
| Sr 216.596 | 0.1970 | -0.1447u | 0.3266 |
| Ti 334.941 | 0.2249 | 0.2075 | 0.2040 |
| Tl 190.794 | 2.1853 | 1.9977 | 2.6225 |
| V 292.401 | 0.4198 | 0.6700 | 0.0792 |
| Zn 206.200 | 1.0480 | 1.0526 | 2.2606 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.0452 | ppb | 0.3816 | 844.5 | -6.9690 | 0.04518 |
| Al 308.215 | 11.4516 | ppb | 1.4703 | 12.8 | 470.322 | 11.45164 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| As 188.980 | 3.8164 | ppb | 5.5015 | 144.2 | -0.3650 | 3.81641 |
| B 249.678 | 10.0428 | ppb | 0.9744 | 9.7 | 187.334 | 10.04282 |
| Ba 389.178 | 0.3215 | ppb | 0.3593 | 111.7 | -44.2340 | 0.32153 |
| Be 313.042 | 0.0462 | ppb | 0.0038 | 8.2 | -241.969 | 0.04623 |
| Ca 370.602 | 18.79 | ppb | 4.031 | 21.4 | 54.34 | 18.79365 |
| Cd 226.502 | 0.0503 | ppb | 0.0978 | 194.6 | 15.2075 | 0.05028 |
| Co 228.615 | -0.0331 | ppb | 0.3157 | 954.1 | 2.7732 | -0.03309 |
| Cr 267.716 | 0.5581 | ppb | 0.0980 | 17.6 | 58.8390 | 0.55809 |
| Cu 324.754 | 0.6715 | ppb | 0.0819 | 12.2 | 297.059 | 0.67149 |
| Fe 271.441 | 35.8701 | ppb | 3.7362 | 10.4 | 57.3321 | 35.87009Z |
| K 766.491 | -1.2736 | ppb | 0.2197 | 17.2 | 270.599 | -1.27361 |
| Mg 279.078 | 1.7889 | ppb | 1.3828 | 77.3 | 23.2608 | 1.78890 |
| Mn 257.610 | 0.7215 | ppb | 0.0467 | 6.5 | 190.012 | 0.72148 |
| Mo 202.032 | 1.5666 | ppb | 0.1753 | 11.2 | 15.9685 | 1.56660 |
| Na 330.237 | -53.2679 | ppb | 30.3656 | 57.0 | 19.4728 | -53.26792 |
| Ni 231.604 | 0.6380 | ppb | 0.4674 | 73.3 | -3.0066 | 0.63796 |
| Pb 220.353 | 0.3160 | ppb | 0.5609 | 177.5 | 0.8826 | 0.31596 |
| Sb 206.834 | 5.5086 | ppb | 0.8298 | 15.1 | 8.3657 | 5.50858 |
| Se 196.026 | 6.5926 | ppb | 5.4593 | 82.8 | 5.2787 | 6.59257 |
| Sn 189.925 | 2.9556 | ppb | 1.8557 | 62.8 | -3.4296 | 2.95557 |
| Sr 216.596 | 0.1263 | ppb | 0.2435 | 192.8 | 3.7638 | 0.12627 |
| Ti 334.941 | 0.2121 | ppb | 0.0112 | 5.3 | -3.0050 | 0.21212 |
| Tl 190.794 | 2.2685 | ppb | 0.3206 | 14.1 | -3.7526 | 2.26849 |
| V 292.401 | 0.3897 | ppb | 0.2965 | 76.1 | 2.7500 | 0.38968 |
| Zn 206.200 | 1.4537 | ppb | 0.6988 | 48.1 | 2.5155 | 1.45374 |

**680-106194-a-30-a (Samp)** **10/15/2014, 3:43:59 PM** **Rack 2, Tube 15**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -7.4112u | -7.2084u | -7.1100u |
| Al 308.215 | 171122 | 170801 | 170912 |
| As 188.980 | 319.953 | 310.715 | 317.736 |
| B 249.678 | 14.1592u | 14.8667u | 14.2169u |
| Ba 389.178 | 448.067 | 445.264 | 446.259 |
| Be 313.042 | 29.0042 | 28.8698 | 28.9183 |
| Ca 370.602 | 18662 | 18647 | 18715 |
| Cd 226.502 | -2.1247 | -2.2639 | -2.2408 |
| Co 228.615 | 64.9104 | 65.3652 | 65.9720 |
| Cr 267.716 | 259.544 | 258.864 | 259.123 |
| Cu 324.754 | 368.299 | 372.339 | 368.672 |
| Fe 271.441 | 308645 | 307667 | 307939 |
| K 766.491 | 9055.37 | 9040.04 | 9037.03 |
| Mg 279.078 | 8042.86 | 8022.63 | 8048.90 |
| Mn 257.610 | 7199.43 | 7169.68 | 7199.92 |
| Mo 202.032 | 33.5599 | 33.7136 | 34.0361 |
| Na 330.237 | 358.073u | 214.907u | 328.370u |
| Ni 231.604 | 401.197 | 400.362 | 399.949 |
| Pb 220.353 | 204.084 | 204.453 | 205.008 |
| Sb 206.834 | 0.3207 | -0.8466 | 2.4104 |
| Se 196.026 | -1.6045 | 3.6152 | -2.7799 |
| Sn 189.925 | 16.5355 | 19.9249 | 13.8286 |
| Sr 216.596 | 58.1537 | 58.0195 | 58.7041 |
| Ti 334.941 | 965.133 | 960.722 | 961.684 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -6.8665u | -9.8898u | -4.9689u |
| V 292.401 | 448.153 | 445.961 | 446.707 |
| Zn 206.200 | 275.984 | 277.028 | 272.602 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -7.2432 | ppb | 0.1536 | 2.1 | -585.316 |
| Al 308.215 | 170945 | ppb | 162.812 | 0.1 | 1132152 |
| As 188.980 | 316.134 | ppb | 4.8229 | 1.5 | 166.998 |
| B 249.678 | 14.4143 | ppb | 0.3929 | 2.7 | -392.683 |
| Ba 389.178 | 446.530 | ppb | 1.4214 | 0.3 | 9170.31 |
| Be 313.042 | 28.9308 | ppb | 0.0680 | 0.2 | 46807.0 |
| Ca 370.602 | 18674 | ppb | 35.59 | 0.2 | 40668 |
| Cd 226.502 | -2.2098 | ppb | 0.0746 | 3.4 | 1030.96 |
| Co 228.615 | 65.4158 | ppb | 0.5326 | 0.8 | 721.720 |
| Cr 267.716 | 259.177 | ppb | 0.3430 | 0.1 | 13058.2 |
| Cu 324.754 | 369.770 | ppb | 2.2327 | 0.6 | 26306.7 |
| Fe 271.441 | 308084 | ppb | 504.705 | 0.2 | 433879 |
| K 766.491 | 9044.15 | ppb | 9.8359 | 0.1 | 387217 |
| Mg 279.078 | 8038.13 | ppb | 13.7609 | 0.2 | 19357.4 |
| Mn 257.610 | 7189.68 | ppb | 17.3215 | 0.2 | 1487742 |
| Mo 202.032 | 33.7699 | ppb | 0.2430 | 0.7 | 201.676 |
| Na 330.237 | 300.450 | ppb | 75.5567 | 25.1 | -44.7992 |
| Ni 231.604 | 400.503 | ppb | 0.6360 | 0.2 | 1128.10 |
| Pb 220.353 | 204.515 | ppb | 0.4655 | 0.2 | 272.339 |
| Sb 206.834 | 0.6282 | ppb | 1.6502 | 262.7 | 13.4161 |
| Se 196.026 | -0.2564 | ppb | 3.4040 | 1327.6 | 6.3541 |
| Sn 189.925 | 16.7630 | ppb | 3.0545 | 18.2 | 5.6482 |
| Sr 216.596 | 58.2924 | ppb | 0.3628 | 0.6 | 965.656 |
| Ti 334.941 | 962.513 | ppb | 2.3194 | 0.2 | 267074 |
| Tl 190.794 | -7.2417 | ppb | 2.4818 | 34.3 | -46.0559 |
| V 292.401 | 446.940 | ppb | 1.1146 | 0.2 | 11683.7 |
| Zn 206.200 | 275.205 | ppb | 2.3137 | 0.8 | 237.056 |

**680-106194-a-20-a (Samp)** **10/15/2014, 3:55:35 PM** **Rack 2, Tube 16**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -2.8718u | -2.6633u | -3.0144u |
| Al 308.215 | 65830.4 | 65975.7 | 65961.7 |
| As 188.980 | 87.9350 | 90.2601 | 76.5789 |
| B 249.678 | 21.0794 | 20.1166 | 20.5017 |
| Ba 389.178 | 478.219 | 478.983 | 477.309 |
| Be 313.042 | 6.0753 | 6.0704 | 6.0716 |
| Ca 370.602 | 430315 | 432544 | 431506 |
| Cd 226.502 | 0.0892 | 0.0533 | -0.0813 |
| Co 228.615 | 51.6671 | 52.1234 | 51.1448 |
| Cr 267.716 | 101.894 | 101.793 | 102.074 |
| Cu 324.754 | 69.4147 | 69.3115 | 69.4760 |
| Fe 271.441 | 90813.5 | 91030.6 | 91006.4 |
| K 766.491 | 4887.97 | 4901.96 | 4887.80 |
| Mg 279.078 | 15855.0 | 15875.5 | 15901.8 |
| Mn 257.610 | 4101.29 | 4102.82 | 4113.32 |
| Mo 202.032 | 6.2215 | 6.3631 | 5.8702 |
| Na 330.237 | 191.131u | 200.053u | 164.114u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 66.1578 | 63.6355 | 63.8167 |
| Pb 220.353 | 100.330 | 100.550 | 101.515 |
| Sb 206.834 | 1.4604 | -0.8529 | 2.2077 |
| Se 196.026 | 8.0684 | 3.9112 | 0.5149 |
| Sn 189.925 | 13.3295 | 12.9214 | 13.9700 |
| Sr 216.596 | 120.191 | 120.849 | 120.284 |
| Ti 334.941 | 523.823 | 524.596 | 523.596 |
| Tl 190.794 | -0.7101u | -3.4942u | 0.8964u |
| V 292.401 | 164.091 | 163.960 | 164.179 |
| Zn 206.200 | 110.747 | 111.617 | 112.287 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -2.8498 | ppb | 0.1765 | 6.2 | -230.256 |
| Al 308.215 | 65922.6 | ppb | 80.1874 | 0.1 | 436794 |
| As 188.980 | 84.9247 | ppb | 7.3205 | 8.6 | 43.2216 |
| B 249.678 | 20.5659 | ppb | 0.4846 | 2.4 | 155.270 |
| Ba 389.178 | 478.170 | ppb | 0.8381 | 0.2 | 9713.07 |
| Be 313.042 | 6.0725 | ppb | 0.0026 | 0.0 | 9710.70 |
| Ca 370.602 | 431455 | ppb | 1116 | 0.3 | 996780 |
| Cd 226.502 | 0.0204 | ppb | 0.0899 | 440.5 | 339.796 |
| Co 228.615 | 51.6451 | ppb | 0.4896 | 0.9 | 556.886 |
| Cr 267.716 | 101.920 | ppb | 0.1423 | 0.1 | 5146.96 |
| Cu 324.754 | 69.4007 | ppb | 0.0832 | 0.1 | 5153.03 |
| Fe 271.441 | 90950.2 | ppb | 118.968 | 0.1 | 128095 |
| K 766.491 | 4892.57 | ppb | 8.1275 | 0.2 | 209620 |
| Mg 279.078 | 15877.4 | ppb | 23.4493 | 0.1 | 38495.1 |
| Mn 257.610 | 4105.81 | ppb | 6.5494 | 0.2 | 849469 |
| Mo 202.032 | 6.1516 | ppb | 0.2538 | 4.1 | 40.2927 |
| Na 330.237 | 185.099 | ppb | 18.7134 | 10.1 | 5.6551 |
| Ni 231.604 | 64.5366 | ppb | 1.4069 | 2.2 | 180.865 |
| Pb 220.353 | 100.798 | ppb | 0.6305 | 0.6 | 138.411 |
| Sb 206.834 | 0.9384 | ppb | 1.5957 | 170.0 | 6.0866 |
| Se 196.026 | 4.1648 | ppb | 3.7832 | 90.8 | 5.8243 |
| Sn 189.925 | 13.4070 | ppb | 0.5286 | 3.9 | 3.4420 |
| Sr 216.596 | 120.441 | ppb | 0.3561 | 0.3 | 1563.19 |
| Ti 334.941 | 524.005 | ppb | 0.5243 | 0.1 | 145380 |
| Tl 190.794 | -1.1026 | ppb | 2.2214 | 201.5 | -15.7553 |
| V 292.401 | 164.077 | ppb | 0.1101 | 0.1 | 4280.25 |
| Zn 206.200 | 111.550 | ppb | 0.7719 | 0.7 | 98.0988 |

**680-106194-a-6-a (Samp)** **10/15/2014, 3:59:51 PM** **Rack 2, Tube 17**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1544u | -0.3245u | -0.1456u |
| Al 308.215 | 25670.2 | 25683.8 | 25678.3 |
| As 188.980 | 985.163 | 985.706 | 999.511 |
| B 249.678 | 19.2600 | 18.2449 | 18.2257 |
| Ba 389.178 | 638.620 | 643.313 | 642.505 |
| Be 313.042 | 2.8773 | 2.8999 | 2.8913 |
| Ca 370.602 | 1600248x | 1602759x | 1608942x |
| Cd 226.502 | 3.8405 | 3.7448 | 3.6978 |
| Co 228.615 | 24.1119 | 23.6460 | 24.6124 |
| Cr 267.716 | 72.0949 | 71.8594 | 71.9799 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 264.113 | 263.854 | 260.843 |
| Fe 271.441 | 116323 | 116241 | 116285 |
| K 766.491 | 3448.74 | 3447.92 | 3449.55 |
| Mg 279.078 | 23201.0 | 23224.2 | 23220.9 |
| Mn 257.610 | 2827.62 | 2828.80 | 2832.18 |
| Mo 202.032 | 21.0314 | 22.4104 | 21.6497 |
| Na 330.237 | 558.010u | 792.598u | 242.726u |
| Ni 231.604 | 64.1047 | 62.4594 | 61.5978 |
| Pb 220.353 | 392.472 | 393.588 | 392.650 |
| Sb 206.834 | 9.9581 | 9.0485 | 3.2349 |
| Se 196.026 | 8.5432 | 17.7216 | 13.2443 |
| Sn 189.925 | 164.669 | 167.616 | 163.509 |
| Sr 216.596 | 405.492 | 403.606 | 406.112 |
| Ti 334.941 | 582.401 | 583.575 | 584.520 |
| Tl 190.794 | -9.5660u | 0.5418u | -3.8896u |
| V 292.401 | 87.5618 | 87.2385 | 87.2100 |
| Zn 206.200 | 1314.32 | 1316.05 | 1313.94 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1052b | ppb | 0.2420 | 230.0 | -40.4601 |
| Al 308.215 | 25677.4b | ppb | 6.8899 | 0.0 | 170514 |
| As 188.980 | 990.127b | ppb | 8.1317 | 0.8 | 528.371 |
| B 249.678 | 18.5769b | ppb | 0.5917 | 3.2 | 72.2146 |
| Ba 389.178 | 641.479b | ppb | 2.5089 | 0.4 | 13047.0 |
| Be 313.042 | 2.8895b | ppb | 0.0114 | 0.4 | 4877.27 |
| Ca 370.602 | 1603983xb | ppb | 4474 | 0.3 | 3707036 |
| Cd 226.502 | 3.7610b | ppb | 0.0727 | 1.9 | 570.209 |
| Co 228.615 | 24.1234b | ppb | 0.4833 | 2.0 | 272.353 |
| Cr 267.716 | 71.9781b | ppb | 0.1178 | 0.2 | 3666.94 |
| Cu 324.754 | 262.937b | ppb | 1.8174 | 0.7 | 18739.1 |
| Fe 271.441 | 116283b | ppb | 41.2902 | 0.0 | 163767 |
| K 766.491 | 3448.73b | ppb | 0.8169 | 0.0 | 147856 |
| Mg 279.078 | 23215.3b | ppb | 12.5512 | 0.1 | 56360.0 |
| Mn 257.610 | 2829.53b | ppb | 2.3693 | 0.1 | 585685 |
| Mo 202.032 | 21.6972b | ppb | 0.6907 | 3.2 | 135.492 |
| Na 330.237 | 531.111b | ppb | 275.921 | 52.0 | -13.7876 |
| Ni 231.604 | 62.7207b | ppb | 1.2737 | 2.0 | 177.810 |
| Pb 220.353 | 392.904b | ppb | 0.5996 | 0.2 | 553.620 |
| Sb 206.834 | 7.4138b | ppb | 3.6475 | 49.2 | 14.8471 |
| Se 196.026 | 13.1697b | ppb | 4.5897 | 34.9 | 9.2364 |
| Sn 189.925 | 165.265b | ppb | 2.1171 | 1.3 | 103.286 |
| Sr 216.596 | 405.070b | ppb | 1.3051 | 0.3 | 5098.12 |
| Ti 334.941 | 583.499b | ppb | 1.0616 | 0.2 | 161901 |
| Tl 190.794 | -4.3046b | ppb | 5.0667 | 117.7 | -22.7423 |
| V 292.401 | 87.3368b | ppb | 0.1954 | 0.2 | 2300.44 |
| Zn 206.200 | 1314.77b | ppb | 1.1234 | 0.1 | 1182.72 |

**680-106194-b-3-a (Samp)** **10/15/2014, 4:04:07 PM** **Rack 2, Tube 18**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 8.0833 | 9.6064 | 7.8734 |
| Al 308.215 | 55617.1 | 55518.4 | 55644.1 |
| As 188.980 | 291.604 | 300.391 | 298.275 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 165.156u | 166.315u | 173.892u |
| Ba 389.178 | 2714.79 | 2716.21 | 2719.04 |
| Be 313.042 | 5.7331 | 5.7463 | 5.7587 |
| Ca 370.602 | 441445 | 437753 | 434339 |
| Cd 226.502 | 69.4136 | 70.8343 | 74.0455 |
| Co 228.615 | 173.866 | 171.286 | 168.923 |
| Cr 267.716 | 2956.44 | 2949.08 | 2949.26 |
| Cu 324.754 | 28423.9 | 28251.6 | 28710.3 |
| Fe 271.441 | 2130494x | 2119748x | 2135561x |
| K 766.491 | 6978.33 | 6972.66 | 6988.93 |
| Mg 279.078 | 127825 | 127582 | 127723 |
| Mn 257.610 | 17736.8 | 17720.3 | 17639.1 |
| Mo 202.032 | 1001.37 | 1002.78 | 1000.97 |
| Na 330.237 | 2682.58u | 2457.64u | 2419.24u |
| Ni 231.604 | 2007.59 | 1999.09 | 1993.74 |
| Pb 220.353 | 2978.56 | 2976.29 | 2980.99 |
| Sb 206.834 | 31.0452 | 35.9573 | 22.4321 |
| Se 196.026 | -19.7098 | -2.1624 | -17.0816 |
| Sn 189.925 | 370.565 | 370.213 | 370.113 |
| Sr 216.596 | 902.281 | 899.955 | 898.119 |
| Ti 334.941 | 1425.77 | 1423.52 | 1425.11 |
| Tl 190.794 | -108.078u | -99.6801u | -99.0286u |
| V 292.401 | 297.607 | 297.231 | 296.983 |
| Zn 206.200 | 8116.47 | 8119.00 | 8105.66 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 8.5210b | ppb | 0.9458 | 11.1 | 367.099 |
| Al 308.215 | 55593.2b | ppb | 66.1569 | 0.1 | 371915 |
| As 188.980 | 296.757b | ppb | 4.5861 | 1.5 | 145.780 |
| B 249.678 | 168.455b | ppb | 4.7449 | 2.8 | -1890.71 |
| Ba 389.178 | 2716.68b | ppb | 2.1658 | 0.1 | 56278.2 |
| Be 313.042 | 5.7460b | ppb | 0.0128 | 0.2 | 8973.06 |
| Ca 370.602 | 437845b | ppb | 3554 | 0.8 | 992232 |
| Cd 226.502 | 71.4311b | ppb | 2.3729 | 3.3 | 10306.8 |
| Co 228.615 | 171.358b | ppb | 2.4719 | 1.4 | 1928.08 |
| Cr 267.716 | 2951.59b | ppb | 4.1997 | 0.1 | 147509 |
| Cu 324.754 | 28461.9b | ppb | 231.678 | 0.8 | 1997385 |
| Fe 271.441 | 2128601xb | ppb | 8074.61 | 0.4 | 2997650 |
| K 766.491 | 6979.97b | ppb | 8.2567 | 0.1 | 298916 |
| Mg 279.078 | 127710b | ppb | 121.934 | 0.1 | 309946 |
| Mn 257.610 | 17698.7b | ppb | 52.3408 | 0.3 | 3667004 |
| Mo 202.032 | 1001.71b | ppb | 0.9496 | 0.1 | 6113.94 |
| Na 330.237 | 2519.82b | ppb | 142.256 | 5.6 | -563.225 |
| Ni 231.604 | 2000.14b | ppb | 6.9841 | 0.3 | 5698.34 |
| Pb 220.353 | 2978.61b | ppb | 2.3506 | 0.1 | 4121.93 |
| Sb 206.834 | 29.8115b | ppb | 6.8465 | 23.0 | 119.286 |
| Se 196.026 | -12.9846b | ppb | 9.4640 | 72.9 | 17.3079 |
| Sn 189.925 | 370.297b | ppb | 0.2372 | 0.1 | 238.088 |
| Sr 216.596 | 900.118b | ppb | 2.0858 | 0.2 | 12198.4 |
| Ti 334.941 | 1424.80b | ppb | 1.1593 | 0.1 | 395751 |
| Tl 190.794 | -102.262b | ppb | 5.0471 | 4.9 | -356.300 |
| V 292.401 | 297.274b | ppb | 0.3143 | 0.1 | 8199.51 |
| Zn 206.200 | 8113.71b | ppb | 7.0850 | 0.1 | 7232.10 |

**680-106194-a-23-a (Samp)** **10/15/2014, 4:08:22 PM** **Rack 2, Tube 19**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -1.5011u | -1.3632u | -1.5157u |
| Al 308.215 | 46520.9 | 46447.1 | 46477.7 |
| As 188.980 | 62.6994 | 58.8418 | 57.1227 |
| B 249.678 | 28.6909 | 28.1025 | 27.3860 |
| Ba 389.178 | 574.141 | 571.129 | 571.969 |
| Be 313.042 | 4.5671 | 4.5627 | 4.5590 |
| Ca 370.602 | 1270214x | 1265594x | 1270963x |
| Cd 226.502 | 0.8368 | 0.9663 | 1.2307 |
| Co 228.615 | 29.5984 | 30.1929 | 29.2094 |
| Cr 267.716 | 90.0125 | 90.5560 | 90.5484 |
| Cu 324.754 | 42.6781 | 41.7221 | 41.3425 |
| Fe 271.441 | 66152.5 | 66047.5 | 65897.4 |
| K 766.491 | 3808.56 | 3810.51 | 3806.80 |
| Mg 279.078 | 25984.3 | 25938.0 | 25922.8 |
| Mn 257.610 | 4343.05 | 4326.82 | 4322.86 |
| Mo 202.032 | 4.7504 | 4.3868 | 4.8468 |
| Na 330.237 | 519.953 | 316.562u | 167.419u |
| Ni 231.604 | 38.1644 | 38.0767 | 38.5569 |
| Pb 220.353 | 90.9770 | 86.5124 | 88.3968 |
| Sb 206.834 | -1.1932 | -0.3249 | -4.4587u |
| Se 196.026 | 7.1327 | 17.9197 | 4.0983 |
| Sn 189.925 | 15.0182 | 12.1195 | 13.8080 |
| Sr 216.596 | 258.603 | 256.687 | 256.117 |
| Ti 334.941 | 369.008 | 369.451 | 369.540 |
| Tl 190.794 | -1.2281u | -5.2002u | -2.0598u |
| V 292.401 | 113.085 | 112.288 | 112.388 |
| Zn 206.200 | 99.0862 | 96.2332 | 97.8245 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -1.4600b | ppb | 0.0841 | 5.8 | -124.677 |
| Al 308.215 | 46481.9b | ppb | 37.0853 | 0.1 | 308101 |
| As 188.980 | 59.5546b | ppb | 2.8559 | 4.8 | 29.5796 |
| B 249.678 | 28.0598b | ppb | 0.6535 | 2.3 | 321.059 |
| Ba 389.178 | 572.413b | ppb | 1.5539 | 0.3 | 11624.6 |
| Be 313.042 | 4.5630b | ppb | 0.0040 | 0.1 | 7506.32 |
| Ca 370.602 | 1268924xb | ppb | 2908 | 0.2 | 2932933 |
| Cd 226.502 | 1.0113b | ppb | 0.2008 | 19.9 | 287.562 |
| Co 228.615 | 29.6669b | ppb | 0.4953 | 1.7 | 323.434 |
| Cr 267.716 | 90.3723b | ppb | 0.3116 | 0.3 | 4563.93 |
| Cu 324.754 | 41.9142b | ppb | 0.6882 | 1.6 | 3215.53 |
| Fe 271.441 | 66032.5b | ppb | 128.218 | 0.2 | 93001.7 |
| K 766.491 | 3808.62b | ppb | 1.8568 | 0.0 | 163251 |
| Mg 279.078 | 25948.3b | ppb | 32.0210 | 0.1 | 62965.1 |
| Mn 257.610 | 4330.91b | ppb | 10.6976 | 0.2 | 896030 |
| Mo 202.032 | 4.6613b | ppb | 0.2426 | 5.2 | 32.1892 |
| Na 330.237 | 334.645b | ppb | 176.961 | 52.9 | 19.3388 |
| Ni 231.604 | 38.2660b | ppb | 0.2557 | 0.7 | 106.223 |
| Pb 220.353 | 88.6287b | ppb | 2.2413 | 2.5 | 122.924 |
| Sb 206.834 | -1.9923b | ppb | 2.1797 | 109.4 | 1.3729 |
| Se 196.026 | 9.7169b | ppb | 7.2640 | 74.8 | 7.8138 |
| Sn 189.925 | 13.6486b | ppb | 1.4559 | 10.7 | 3.6009 |
| Sr 216.596 | 257.136b | ppb | 1.3024 | 0.5 | 3315.65 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 369.333b | ppb | 0.2849 | 0.1 | 102474 |
| Tl 190.794 | -2.8293b | ppb | 2.0949 | 74.0 | -14.4683 |
| V 292.401 | 112.587b | ppb | 0.4340 | 0.4 | 2935.47 |
| Zn 206.200 | 97.7146b | ppb | 1.4296 | 1.5 | 86.6029 |

**680-106194-a-26-a (Samp)** **10/15/2014, 4:17:19 PM** **Rack 2, Tube 20**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -2.3031u | -2.9401u | -2.6138u |
| Al 308.215 | 75949.3 | 75719.8 | 75216.1 |
| As 188.980 | 249.336 | 251.086 | 251.599 |
| B 249.678 | 11.3260u | 11.3683u | 11.3509u |
| Ba 389.178 | 328.455 | 328.388 | 327.254 |
| Be 313.042 | 19.2903 | 19.3038 | 19.2675 |
| Ca 370.602 | 15722 | 15801 | 15796 |
| Cd 226.502 | -2.0458 | -2.1031 | -2.3311 |
| Co 228.615 | 63.9706 | 63.9780 | 63.4427 |
| Cr 267.716 | 130.137 | 130.467 | 130.404 |
| Cu 324.754 | 139.202 | 141.953 | 141.965 |
| Fe 271.441 | 209309 | 209767 | 209252 |
| K 766.491 | 5372.58 | 5380.91 | 5366.17 |
| Mg 279.078 | 10132.3 | 10136.9 | 10127.4 |
| Mn 257.610 | 5216.20 | 5234.81 | 5228.74 |
| Mo 202.032 | 22.1867 | 23.1329 | 22.6855 |
| Na 330.237 | 606.518u | 806.838u | 895.638u |
| Ni 231.604 | 272.897 | 272.523 | 274.089 |
| Pb 220.353 | 261.312 | 256.011 | 264.969 |
| Sb 206.834 | 4.3617 | 2.9377 | 4.7527 |
| Se 196.026 | 6.0058 | 13.5764 | -1.5954 |
| Sn 189.925 | 18.2247 | 21.8851 | 19.8739 |
| Sr 216.596 | 31.4390 | 31.6141 | 31.3642 |
| Ti 334.941 | 667.549 | 668.340 | 667.767 |
| Tl 190.794 | -4.5022u | 0.7350u | -0.9641u |
| V 292.401 | 230.957 | 231.610 | 231.192 |
| Zn 206.200 | 187.740 | 187.785 | 189.748 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -2.6190 | ppb | 0.3185 | 12.2 | -221.588 |
| Al 308.215 | 75628.4 | ppb | 375.071 | 0.5 | 501225 |
| As 188.980 | 250.674 | ppb | 1.1866 | 0.5 | 131.596 |
| B 249.678 | 11.3484 | ppb | 0.0213 | 0.2 | -232.690 |
| Ba 389.178 | 328.032 | ppb | 0.6749 | 0.2 | 6720.13 |
| Be 313.042 | 19.2872 | ppb | 0.0183 | 0.1 | 31093.3 |
| Ca 370.602 | 15773 | ppb | 44.25 | 0.3 | 34775 |
| Cd 226.502 | -2.1600 | ppb | 0.1510 | 7.0 | 681.498 |
| Co 228.615 | 63.7971 | ppb | 0.3069 | 0.5 | 693.174 |
| Cr 267.716 | 130.336 | ppb | 0.1752 | 0.1 | 6613.65 |
| Cu 324.754 | 141.040 | ppb | 1.5918 | 1.1 | 10226.3 |
| Fe 271.441 | 209443 | ppb | 282.425 | 0.1 | 294965 |
| K 766.491 | 5373.22 | ppb | 7.3895 | 0.1 | 230181 |
| Mg 279.078 | 10132.2 | ppb | 4.7773 | 0.0 | 24513.3 |
| Mn 257.610 | 5226.59 | ppb | 9.4915 | 0.2 | 1081527 |
| Mo 202.032 | 22.6684 | ppb | 0.4733 | 2.1 | 137384 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 769.665 | ppb | 148.101 | 19.2 | 3.5175 |
| Ni 231.604 | 273.170 | ppb | 0.8176 | 0.3 | 767.833 |
| Pb 220.353 | 260.764 | ppb | 4.5042 | 1.7 | 359.377 |
| Sb 206.834 | 4.0174 | ppb | 0.9552 | 23.8 | 13.7490 |
| Se 196.026 | 5.9956 | ppb | 7.5859 | 126.5 | 7.6411 |
| Sn 189.925 | 19.9946 | ppb | 1.8332 | 9.2 | 7.7732 |
| Sr 216.596 | 31.4725 | ppb | 0.1282 | 0.4 | 569.716 |
| Ti 334.941 | 667.885 | ppb | 0.4089 | 0.1 | 185308 |
| Tl 190.794 | -1.5771 | ppb | 2.6719 | 169.4 | -29.8739 |
| V 292.401 | 231.253 | ppb | 0.3306 | 0.1 | 6061.91 |
| Zn 206.200 | 188.424 | ppb | 1.1464 | 0.6 | 162.853 |

**680-106194-a-29-a (Samp)** **10/15/2014, 4:21:35 PM** **Rack 2, Tube 21**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -2.0018u | -2.1011u | -2.0022u |
| Al 308.215 | 166405 | 166418 | 166471 |
| As 188.980 | 339.864 | 343.228 | 352.518 |
| B 249.678 | 17.9027u | 16.3028u | 17.5774u |
| Ba 389.178 | 567.913 | 569.055 | 567.754 |
| Be 313.042 | 8.4772 | 8.5053 | 8.4924 |
| Ca 370.602 | 24807 | 24832 | 24742 |
| Cd 226.502 | -2.2995 | -2.3304 | -2.6365 |
| Co 228.615 | 110.339 | 110.862 | 111.823 |
| Cr 267.716 | 329.442 | 329.401 | 328.793 |
| Cu 324.754 | 445.735 | 441.874 | 442.502 |
| Fe 271.441 | 353646 | 354605 | 353689 |
| K 766.491 | 12303.8 | 12318.5 | 12338.2 |
| Mg 279.078 | 8197.30 | 8197.83 | 8186.62 |
| Mn 257.610 | 9807.02 | 9791.78 | 9798.25 |
| Mo 202.032 | 32.5096 | 32.5588 | 33.0558 |
| Na 330.237 | 299.903u | 496.207u | 391.301u |
| Ni 231.604 | 259.407 | 257.315 | 259.761 |
| Pb 220.353 | 240.477 | 238.150 | 241.157 |
| Sb 206.834 | -6.4889 | 1.1143 | -0.5584 |
| Se 196.026 | 4.3536 | 2.3416 | 12.9525 |
| Sn 189.925 | 20.6877 | 22.4753 | 29.2404 |
| Sr 216.596 | 65.5263 | 64.5908 | 65.1376 |
| Ti 334.941 | 1207.01 | 1208.47 | 1209.68 |
| Tl 190.794 | -8.4560u | -4.0503u | -2.9093u |
| V 292.401 | 499.138 | 500.724 | 499.325 |
| Zn 206.200 | 325.824 | 324.365 | 315.268 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -2.0350 | ppb | 0.0572 | 2.8 | -177.601 |
| Al 308.215 | 166432 | ppb | 34.9263 | 0.0 | 1102367 |
| As 188.980 | 345.204 | ppb | 6.5543 | 1.9 | 182.309 |
| B 249.678 | 17.2610 | ppb | 0.8456 | 4.9 | -446.872 |
| Ba 389.178 | 568.241 | ppb | 0.7096 | 0.1 | 11662.2 |
| Be 313.042 | 8.4916 | ppb | 0.0141 | 0.2 | 13534.4 |
| Ca 370.602 | 24794 | ppb | 46.80 | 0.2 | 54504 |
| Cd 226.502 | -2.4221 | ppb | 0.1863 | 7.7 | 1188.59 |
| Co 228.615 | 111.008 | ppb | 0.7528 | 0.7 | 1204.42 |

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| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 329.212 | ppb | 0.3633 | 0.1 | 16565.4 |
| Cu 324.754 | 443.370 | ppb | 2.0718 | 0.5 | 31487.1 |
| Fe 271.441 | 353980 | ppb | 541.715 | 0.2 | 498518 |
| K 766.491 | 12320.2 | ppb | 17.2690 | 0.1 | 527359 |
| Mg 279.078 | 8193.91 | ppb | 6.3254 | 0.1 | 19689.2 |
| Mn 257.610 | 9799.02 | ppb | 7.6497 | 0.1 | 2027466 |
| Mo 202.032 | 32.7081 | ppb | 0.3021 | 0.9 | 193.076 |
| Na 330.237 | 395.804 | ppb | 98.2295 | 24.8 | -52.7288 |
| Ni 231.604 | 258.828 | ppb | 1.3219 | 0.5 | 739.076 |
| Pb 220.353 | 239.928 | ppb | 1.5768 | 0.7 | 320.510 |
| Sb 206.834 | -1.9777 | ppb | 3.9954 | 202.0 | 12.1118 |
| Se 196.026 | 6.5492 | ppb | 5.6359 | 86.1 | 9.8284 |
| Sn 189.925 | 24.1344 | ppb | 4.5113 | 18.7 | 10.4946 |
| Sr 216.596 | 65.0849 | ppb | 0.4700 | 0.7 | 1095.08 |
| Ti 334.941 | 1208.39 | ppb | 1.3372 | 0.1 | 335304 |
| Tl 190.794 | -5.1385 | ppb | 2.9291 | 57.0 | -48.1729 |
| V 292.401 | 499.729 | ppb | 0.8665 | 0.2 | 13069.4 |
| Zn 206.200 | 321.819 | ppb | 5.7201 | 1.8 | 277.158 |

**680-106198-b-3-a (Samp)** **10/15/2014, 4:25:52 PM** **Rack 2, Tube 22**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 5.4025 | 5.3103 | 5.0242 |
| Al 308.215 | 44849.3 | 44839.8 | 44826.4 |
| As 188.980 | 110.477 | 111.649 | 107.787 |
| B 249.678 | 207.445 | 208.455 | 210.664 |
| Ba 389.178 | 2100.34 | 2094.83 | 2092.51 |
| Be 313.042 | 3.7376 | 3.7234 | 3.7365 |
| Ca 370.602 | 936118x | 936455x | 932368x |
| Cd 226.502 | 30.9946 | 30.4553 | 30.6926 |
| Co 228.615 | 56.1458 | 55.9505 | 56.6546 |
| Cr 267.716 | 532.790 | 532.788 | 532.773 |
| Cu 324.754 | 3157.84 | 3136.76 | 3153.69 |
| Fe 271.441 | 297052 | 296497 | 296398 |
| K 766.491 | 4859.39 | 4855.67 | 4859.32 |
| Mg 279.078 | 36497.1 | 36238.2 | 36243.1 |
| Mn 257.610 | 3094.45 | 3110.16 | 3106.41 |
| Mo 202.032 | 108.373 | 109.057 | 109.032 |
| Na 330.237 | 4444.00u | 4409.15u | 4401.73u |
| Ni 231.604 | 279.616 | 277.163 | 278.933 |
| Pb 220.353 | 3652.18 | 3657.33 | 3653.09 |
| Sb 206.834 | 91.2579 | 97.4345 | 92.7812 |
| Se 196.026 | 6.9018 | 14.0065 | -8.6398u |
| Sn 189.925 | 190.989 | 191.142 | 196.732 |
| Sr 216.596 | 713.827 | 712.699 | 711.761 |
| Ti 334.941 | 892.437 | 891.561 | 891.195 |
| Tl 190.794 | -15.5411u | -11.7421u | -7.6545u |
| V 292.401 | 139.118 | 138.818 | 139.881 |
| Zn 206.200 | 18795.8 | 18817.1 | 18836.9 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 5.2457b | ppb | 0.1972 | 3.8 | 338.756 |
| Al 308.215 | 44838.5b | ppb | 11.4638 | 0.0 | 297620 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 109.971b | ppb | 1.9801 | 1.8 | 55.3717 |
| B 249.678 | 208.855b | ppb | 1.6464 | 0.8 | 2571.88 |
| Ba 389.178 | 2095.89b | ppb | 4.0171 | 0.2 | 42651.8 |
| Be 313.042 | 3.7325b | ppb | 0.0079 | 0.2 | 6031.74 |
| Ca 370.602 | 934980xb | ppb | 2269 | 0.2 | 2158871 |
| Cd 226.502 | 30.7141b | ppb | 0.2703 | 0.9 | 2224.04 |
| Co 228.615 | 56.2503b | ppb | 0.3635 | 0.6 | 622.846 |
| Cr 267.716 | 532.784b | ppb | 0.0091 | 0.0 | 26613.2 |
| Cu 324.754 | 3149.43b | ppb | 11.1661 | 0.4 | 221265 |
| Fe 271.441 | 296649b | ppb | 352.488 | 0.1 | 417773 |
| K 766.491 | 4858.13b | ppb | 2.1297 | 0.0 | 208147 |
| Mg 279.078 | 36326.1b | ppb | 148.038 | 0.4 | 88201.1 |
| Mn 257.610 | 3103.67b | ppb | 8.2074 | 0.3 | 642976 |
| Mo 202.032 | 108.821b | ppb | 0.3878 | 0.4 | 666.893 |
| Na 330.237 | 4418.30b | ppb | 22.5704 | 0.5 | -306.119 |
| Ni 231.604 | 278.571b | ppb | 1.2658 | 0.5 | 789.481 |
| Pb 220.353 | 3654.20b | ppb | 2.7488 | 0.1 | 5193.05 |
| Sb 206.834 | 93.8245b | ppb | 3.2178 | 3.4 | 137.578 |
| Se 196.026 | 4.0895b | ppb | 11.5821 | 283.2 | 7.1621 |
| Sn 189.925 | 192.954b | ppb | 3.2727 | 1.7 | 121.491 |
| Sr 216.596 | 712.762b | ppb | 1.0345 | 0.1 | 8419.83 |
| Ti 334.941 | 891.731b | ppb | 0.6380 | 0.1 | 247474 |
| Tl 190.794 | -11.6459b | ppb | 3.9442 | 33.9 | -51.5887 |
| V 292.401 | 139.273b | ppb | 0.5481 | 0.4 | 3682.35 |
| Zn 206.200 | 18816.6b | ppb | 20.5631 | 0.1 | 16964.3 |

**680-106198-b-4-a (Samp)** **10/15/2014, 4:30:09 PM** **Rack 2, Tube 23**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 476.704 | 478.241 | 477.862 |
| Al 308.215 | 77845.7 | 77916.3 | 77953.0 |
| As 188.980 | 153.103 | 157.075 | 152.505 |
| B 249.678 | 480.855 | 482.767 | 483.999 |
| Ba 389.178 | 5059.61 | 5051.67 | 5062.60 |
| Be 313.042 | 5.1851 | 5.1776 | 5.1756 |
| Ca 370.602 | 976224x | 967060x | 967592x |
| Cd 226.502 | 56.4973 | 56.9727 | 56.3453 |
| Co 228.615 | 88.6109 | 86.9351 | 87.9251 |
| Cr 267.716 | 924.863 | 924.420 | 925.396 |
| Cu 324.754 | 9552.40 | 9537.73 | 9640.66 |
| Fe 271.441 | 564836 | 563281 | 563283 |
| K 766.491 | 7411.78 | 7393.47 | 7422.15 |
| Mg 279.078 | 69192.6 | 69247.1 | 69144.8 |
| Mn 257.610 | 5890.05 | 5880.56 | 5879.56 |
| Mo 202.032 | 146.775 | 147.962 | 147.126 |
| Na 330.237 | 6789.16u | 6504.09u | 6545.41u |
| Ni 231.604 | 526.220 | 525.777 | 526.678 |
| Pb 220.353 | 34893.0x | 34913.5x | 34847.2x |
| Sb 206.834 | 100.972 | 96.0801 | 104.955 |
| Se 196.026 | -0.4232 | -0.2797 | 3.5262 |
| Sn 189.925 | 1485.29 | 1482.78 | 1475.93 |
| Sr 216.596 | 1381.74 | 1380.42 | 1377.53 |
| Ti 334.941 | 1351.10 | 1349.65 | 1352.89 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -20.9533u | -25.1977u | -32.0546u |
| V 292.401 | 228.643 | 228.691 | 229.353 |
| Zn 206.200 | 31481.9x | 31441.1x | 31366.4x |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 477.602b | ppb | 0.8009 | 0.2 | 36821.4 |
| Al 308.215 | 77905.0b | ppb | 54.5757 | 0.1 | 516888 |
| As 188.980 | 154.228b | ppb | 2.4838 | 1.6 | 77.9745 |
| B 249.678 | 482.540b | ppb | 1.5842 | 0.3 | 6149.98 |
| Ba 389.178 | 5057.96b | ppb | 5.6473 | 0.1 | 102902 |
| Be 313.042 | 5.1794b | ppb | 0.0050 | 0.1 | 8381.09 |
| Ca 370.602 | 970292xb | ppb | 5144 | 0.5 | 2238115 |
| Cd 226.502 | 56.6051b | ppb | 0.3273 | 0.6 | 4148.19 |
| Co 228.615 | 87.8237b | ppb | 0.8425 | 1.0 | 976.036 |
| Cr 267.716 | 924.893b | ppb | 0.4888 | 0.1 | 46199.7 |
| Cu 324.754 | 9576.93b | ppb | 55.6744 | 0.6 | 672178 |
| Fe 271.441 | 563800b | ppb | 896.915 | 0.2 | 793995 |
| K 766.491 | 7409.13b | ppb | 14.5243 | 0.2 | 317274 |
| Mg 279.078 | 69194.8b | ppb | 51.1946 | 0.1 | 167994 |
| Mn 257.610 | 5883.39b | ppb | 5.7868 | 0.1 | 1218800 |
| Mo 202.032 | 147.288b | ppb | 0.6097 | 0.4 | 893.455 |
| Na 330.237 | 6612.89b | ppb | 154.047 | 2.3 | -577.991 |
| Ni 231.604 | 526.225b | ppb | 0.4504 | 0.1 | 1495.86 |
| Pb 220.353 | 34884.6xb | ppb | 33.9534 | 0.1 | 49709.8 |
| Sb 206.834 | 100.669b | ppb | 4.4450 | 4.4 | 158.443 |
| Se 196.026 | 0.9411b | ppb | 2.2399 | 238.0 | 8.5068 |
| Sn 189.925 | 1481.33b | ppb | 4.8458 | 0.3 | 968.579 |
| Sr 216.596 | 1379.90b | ppb | 2.1490 | 0.2 | 15997.6 |
| Ti 334.941 | 1351.21b | ppb | 1.6228 | 0.1 | 375058 |
| Tl 190.794 | -26.0685b | ppb | 5.6017 | 21.5 | -96.4241 |
| V 292.401 | 228.896b | ppb | 0.3968 | 0.2 | 6085.18 |
| Zn 206.200 | 31429.8xb | ppb | 58.5621 | 0.2 | 28332.3 |

**680-106198-b-7-a (Samp)** **10/15/2014, 4:34:26 PM** **Rack 2, Tube 24**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -1.8835u | -1.8629u | -2.1908u |
| Al 308.215 | 74764.7 | 74983.3 | 74909.3 |
| As 188.980 | 83.0998 | 79.1418 | 84.5602 |
| B 249.678 | 47.7581 | 47.0386 | 46.0291 |
| Ba 389.178 | 674.717 | 675.346 | 674.754 |
| Be 313.042 | 6.6912 | 6.7147 | 6.7015 |
| Ca 370.602 | 433176 | 430901 | 431165 |
| Cd 226.502 | 5.8583 | 5.8209 | 5.8497 |
| Co 228.615 | 59.7532 | 59.6058 | 60.2010 |
| Cr 267.716 | 144.721 | 144.791 | 144.766 |
| Cu 324.754 | 325.278 | 327.879 | 327.340 |
| Fe 271.441 | 127477 | 127492 | 127858 |
| K 766.491 | 5654.86 | 5651.25 | 5651.57 |
| Mg 279.078 | 29568.1 | 29635.5 | 29641.7 |
| Mn 257.610 | 5017.89 | 5012.15 | 5038.87 |
| Mo 202.032 | 12.2182 | 10.9648 | 11.2931 |
| Na 330.237 | 500.070u | 803.131u | 527.231u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 115.785 | 114.724 | 115.579 |
| Pb 220.353 | 577.541 | 583.915 | 592.531 |
| Sb 206.834 | 0.4344 | 4.4286 | 3.2326 |
| Se 196.026 | -1.2053 | -0.4969 | 0.6078 |
| Sn 189.925 | 24.1856 | 30.9450 | 28.2471 |
| Sr 216.596 | 161.762 | 162.632 | 163.442 |
| Ti 334.941 | 619.520 | 620.367 | 619.418 |
| Tl 190.794 | -6.7384u | -3.3041u | -6.3045u |
| V 292.401 | 275.341 | 275.108 | 276.011 |
| Zn 206.200 | 1695.82 | 1712.63 | 1710.46 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -1.9791 | ppb | 0.1836 | 9.3 | -165.562 |
| Al 308.215 | 74885.8 | ppb | 111.173 | 0.1 | 496178 |
| As 188.980 | 82.2673 | ppb | 2.8035 | 3.4 | 41.6776 |
| B 249.678 | 46.9419 | ppb | 0.8685 | 1.9 | 477.386 |
| Ba 389.178 | 674.939 | ppb | 0.3530 | 0.1 | 13739.7 |
| Be 313.042 | 6.7024 | ppb | 0.0118 | 0.2 | 10739.3 |
| Ca 370.602 | 431747 | ppb | 1245 | 0.3 | 997153 |
| Cd 226.502 | 5.8430 | ppb | 0.0196 | 0.3 | 688.543 |
| Co 228.615 | 59.8533 | ppb | 0.3100 | 0.5 | 646.427 |
| Cr 267.716 | 144.759 | ppb | 0.0356 | 0.0 | 7291.91 |
| Cu 324.754 | 326.832 | ppb | 1.3730 | 0.4 | 23222.1 |
| Fe 271.441 | 127609 | ppb | 216.160 | 0.2 | 179722 |
| K 766.491 | 5652.56 | ppb | 1.9984 | 0.0 | 242131 |
| Mg 279.078 | 29615.1 | ppb | 40.8421 | 0.1 | 71851.0 |
| Mn 257.610 | 5022.97 | ppb | 14.0656 | 0.3 | 1039335 |
| Mo 202.032 | 11.4920 | ppb | 0.6500 | 5.7 | 71.6711 |
| Na 330.237 | 610.144 | ppb | 167.683 | 27.5 | -22.4368 |
| Ni 231.604 | 115.362 | ppb | 0.5626 | 0.5 | 324.439 |
| Pb 220.353 | 584.662 | ppb | 7.5231 | 1.3 | 826.202 |
| Sb 206.834 | 2.6986 | ppb | 2.0500 | 76.0 | 9.8733 |
| Se 196.026 | -0.3648 | ppb | 0.9137 | 250.5 | 4.5330 |
| Sn 189.925 | 27.7926 | ppb | 3.4026 | 12.2 | 12.9002 |
| Sr 216.596 | 162.612 | ppb | 0.8404 | 0.5 | 2061.21 |
| Ti 334.941 | 619.768 | ppb | 0.5206 | 0.1 | 171980 |
| Tl 190.794 | -5.4490 | ppb | 1.8702 | 34.3 | -23.8144 |
| V 292.401 | 275.487 | ppb | 0.4685 | 0.2 | 7179.71 |
| Zn 206.200 | 1706.31 | ppb | 9.1429 | 0.5 | 1535.33 |

**Cont Calib Verif (CCV)** **10/15/2014, 4:38:43 PM** **Rack 2, Tube 25**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 488.512 | 487.215 | 489.931 |
| Al 308.215 | 4822.47 | 4818.11 | 4811.56 |
| As 188.980 | 454.921 | 458.203 | 451.163 |
| B 249.678 | 486.101 | 482.602 | 484.760 |
| Ba 389.178 | 4797.01 | 4800.58 | 4801.72 |
| Be 313.042 | 484.144 | 482.364 | 481.000 |
| Ca 370.602 | 4911 | 4919 | 4903 |
| Cd 226.502 | 485.491 | 485.048 | 485.622 |
| Co 228.615 | 492.321 | 492.151 | 491.647 |
| Cr 267.716 | 4838.36 | 4840.00 | 4845.00 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 5002.19 | 4968.77 | 4988.13 |
| Fe 271.441 | 4867.74 | 4866.20 | 4876.82 |
| K 766.491 | 10070.5 | 10081.3 | 10074.3 |
| Mg 279.078 | 4863.33 | 4851.68 | 4846.92 |
| Mn 257.610 | 4959.51 | 4961.98 | 4955.91 |
| Mo 202.032 | 487.628 | 489.327 | 490.682 |
| Na 330.237 | 7479.15 | 7424.16 | 7741.50 |
| Ni 231.604 | 2470.86 | 2465.95 | 2459.29 |
| Pb 220.353 | 492.562 | 492.557 | 497.065 |
| Sb 206.834 | 915.774 | 913.854 | 918.200 |
| Se 196.026 | 4782.92 | 4794.60 | 4793.27 |
| Sn 189.925 | 4858.38 | 4875.94 | 4889.42 |
| Sr 216.596 | 2413.18 | 2409.72 | 2408.64 |
| Ti 334.941 | 478.511 | 478.852 | 478.842 |
| Tl 190.794 | 4995.48 | 4965.62 | 4969.69 |
| V 292.401 | 4832.92 | 4838.36 | 4843.05 |
| Zn 206.200 | 2423.40 | 2410.36 | 2410.89 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 488.553 | ppb | 1.3585 | 0.3 | 37733.6 | 97.71059 |
| Al 308.215 | 4817.38 | ppb | 5.4913 | 0.1 | 32777.5 | 96.34762 |
| As 188.980 | 454.762 | ppb | 3.5223 | 0.8 | 241.463 | 90.95245 |
| B 249.678 | 484.488 | ppb | 1.7652 | 0.4 | 7363.44 | 96.89751 |
| Ba 389.178 | 4799.77 | ppb | 2.4593 | 0.1 | 97315.2 | 95.99537 |
| Be 313.042 | 482.503 | ppb | 1.5767 | 0.3 | 785357 | 96.50056 |
| Ca 370.602 | 4911 | ppb | 8.315 | 0.2 | 11622 | 98.21857 |
| Cd 226.502 | 485.387 | ppb | 0.3007 | 0.1 | 18195.9 | 97.07741 |
| Co 228.615 | 492.040 | ppb | 0.3503 | 0.1 | 5132.89 | 98.40794 |
| Cr 267.716 | 4841.12 | ppb | 3.4573 | 0.1 | 240231 | 96.82236 |
| Cu 324.754 | 4986.36 | ppb | 16.7816 | 0.3 | 349929 | 99.72723 |
| Fe 271.441 | 4870.26 | ppb | 5.7387 | 0.1 | 6962.25 | 97.40511 |
| K 766.491 | 10075.4 | ppb | 5.4822 | 0.1 | 431331 | 100.75376 |
| Mg 279.078 | 4853.98 | ppb | 8.4392 | 0.2 | 11718.8 | 97.07955 |
| Mn 257.610 | 4959.13 | ppb | 3.0516 | 0.1 | 1025598 | 99.18268 |
| Mo 202.032 | 489.212 | ppb | 1.5300 | 0.3 | 3028.70 | 97.84246 |
| Na 330.237 | 7548.27 | ppb | 169.585 | 2.2 | 321.370 | 100.64359 |
| Ni 231.604 | 2465.37 | ppb | 5.8042 | 0.2 | 6824.00 | 98.61471 |
| Pb 220.353 | 494.061 | ppb | 2.6015 | 0.5 | 708.104 | 98.81229 |
| Sb 206.834 | 915.943 | ppb | 2.1778 | 0.2 | 1253.08 | 91.59425 |
| Se 196.026 | 4790.27 | ppb | 6.3973 | 0.1 | 1848.05 | 95.80531 |
| Sn 189.925 | 4874.58 | ppb | 15.5653 | 0.3 | 3199.59 | 97.49159 |
| Sr 216.596 | 2410.51 | ppb | 2.3699 | 0.1 | 26280.1 | 96.42050 |
| Ti 334.941 | 478.735 | ppb | 0.1942 | 0.0 | 132786 | 95.74693 |
| Tl 190.794 | 4976.93 | ppb | 16.1920 | 0.3 | 4867.83 | 99.53857 |
| V 292.401 | 4838.11 | ppb | 5.0696 | 0.1 | 125113 | 96.76225 |
| Zn 206.200 | 2414.88 | ppb | 7.3801 | 0.3 | 2167.23 | 96.59526 |

**Cont Calib Blank (CCB)** **10/15/2014, 4:42:59 PM** **Rack 2, Tube 26**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0328 | 0.0259 | -0.1673u |
| Al 308.215 | 8.7770 | 10.4998 | 10.1973 |
| As 188.980 | 1.6907 | 7.9596 | -0.8134u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 10.2608 | 8.8618 | 7.6533 |
| Ba 389.178 | -0.0292u | 0.2197 | 0.1734 |
| Be 313.042 | 0.0359 | 0.0406 | 0.0511 |
| Ca 370.602 | 8.844 | 15.46 | 15.83 |
| Cd 226.502 | 0.0061 | -0.1045u | -0.0941u |
| Co 228.615 | -0.5340u | -0.0874u | -0.4276u |
| Cr 267.716 | 0.1471 | 0.4641 | 0.4221 |
| Cu 324.754 | 0.5279 | 0.4726 | 0.2403 |
| Fe 271.441 | 3.4159 | 5.7947 | 8.6046 |
| K 766.491 | -1.5038u | -0.6546u | -1.0541u |
| Mg 279.078 | -2.3070u | 0.2930 | 2.0484 |
| Mn 257.610 | 0.5019 | 0.5603 | 0.5313 |
| Mo 202.032 | 0.9504 | 0.7838 | 0.5718 |
| Na 330.237 | -14.6817u | -107.746u | -107.937u |
| Ni 231.604 | 1.7724 | 1.5459 | 2.2566 |
| Pb 220.353 | 0.4056 | 2.1118 | 0.4338 |
| Sb 206.834 | 8.1732 | 1.2086 | 2.7178 |
| Se 196.026 | 2.3148 | 6.0033 | -3.6912u |
| Sn 189.925 | -0.5099u | 0.1961 | 0.2325 |
| Sr 216.596 | 0.1863 | 0.0759 | 0.1205 |
| Ti 334.941 | 0.1491 | 0.1444 | 0.1370 |
| Tl 190.794 | -1.7343u | 0.1476 | 0.4124 |
| V 292.401 | 0.4861 | 0.4617 | 0.5788 |
| Zn 206.200 | 0.1937 | 0.1946 | -2.3147u |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | -0.0362 | ppb | 0.1136 | 313.8 | -13.2624 | -0.03619 |
| Al 308.215 | 9.8247 | ppb | 0.9199 | 9.4 | 459.483 | 9.82470 |
| As 188.980 | 2.9456 | ppb | 4.5191 | 153.4 | -0.8318 | 2.94562 |
| B 249.678 | 8.9253 | ppb | 1.3049 | 14.6 | 170.465 | 8.92531 |
| Ba 389.178 | 0.1213 | ppb | 0.1324 | 109.1 | -48.3138 | 0.12130 |
| Be 313.042 | 0.0425 | ppb | 0.0078 | 18.3 | -247.907 | 0.04252 |
| Ca 370.602 | 13.38 | ppb | 3.930 | 29.4 | 42.03 | 13.37607 |
| Cd 226.502 | -0.0642 | ppb | 0.0611 | 95.1 | 10.8350 | -0.06418 |
| Co 228.615 | -0.3497 | ppb | 0.2333 | 66.7 | -0.5076 | -0.34966 |
| Cr 267.716 | 0.3444 | ppb | 0.1722 | 50.0 | 48.2256 | 0.34444 |
| Cu 324.754 | 0.4136 | ppb | 0.1526 | 36.9 | 278.930 | 0.41357 |
| Fe 271.441 | 5.9384 | ppb | 2.5973 | 43.7 | 15.1610 | 5.93840 |
| K 766.491 | -1.0708 | ppb | 0.4249 | 39.7 | 279.275 | -1.07081 |
| Mg 279.078 | 0.0115 | ppb | 2.1913 | 19069.9 | 18.9461 | 0.01149 |
| Mn 257.610 | 0.5312 | ppb | 0.0292 | 5.5 | 150.563 | 0.53115 |
| Mo 202.032 | 0.7687 | ppb | 0.1898 | 24.7 | 11.0318 | 0.76871 |
| Na 330.237 | -76.7883 | ppb | 53.7860 | 70.0 | 18.3879 | -76.78832 |
| Ni 231.604 | 1.8583 | ppb | 0.3630 | 19.5 | 0.3725 | 1.85833 |
| Pb 220.353 | 0.9838 | ppb | 0.9770 | 99.3 | 1.8371 | 0.98376 |
| Sb 206.834 | 4.0332 | ppb | 3.6639 | 90.8 | 6.4297 | 4.03324 |
| Se 196.026 | 1.5423 | ppb | 4.8932 | 317.3 | 3.3340 | 1.54230 |
| Sn 189.925 | -0.0271 | ppb | 0.4185 | 1544.6 | -5.3906 | -0.02709 |
| Sr 216.596 | 0.1276 | ppb | 0.0556 | 43.6 | 3.7404 | 0.12756 |
| Ti 334.941 | 0.1435 | ppb | 0.0061 | 4.3 | -22.0453 | 0.14353 |
| Tl 190.794 | -0.3914 | ppb | 1.1705 | 299.0 | -6.3481 | -0.39143 |
| V 292.401 | 0.5089 | ppb | 0.0618 | 12.1 | 5.9528 | 0.50885 |
| Zn 206.200 | -0.6421 | ppb | 1.4485 | 225.6 | 0.6261 | -0.64213 |

**680-106198-a-8-a (Samp)** **10/15/2014, 4:47:15 PM** **Rack 2, Tube 27**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -2.4003u | -2.5105u | -2.5425u |
| Al 308.215 | 76693.2 | 76553.2 | 76590.6 |
| As 188.980 | 90.4960 | 88.8157 | 86.8195 |
| B 249.678 | 27.2741 | 26.4961 | 26.0605 |
| Ba 389.178 | 555.429 | 553.356 | 554.073 |
| Be 313.042 | 6.3710 | 6.3864 | 6.3850 |
| Ca 370.602 | 340744 | 340587 | 337591 |
| Cd 226.502 | -0.4553 | -0.4811 | -0.4885 |
| Co 228.615 | 56.9484 | 56.6753 | 56.8621 |
| Cr 267.716 | 120.242 | 120.488 | 120.075 |
| Cu 324.754 | 95.9494 | 95.1060 | 94.2281 |
| Fe 271.441 | 117986 | 117879 | 117729 |
| K 766.491 | 6570.56 | 6568.78 | 6547.96 |
| Mg 279.078 | 16501.0 | 16475.3 | 16453.3 |
| Mn 257.610 | 4659.03 | 4658.94 | 4656.23 |
| Mo 202.032 | 10.0084 | 10.6189 | 9.4239 |
| Na 330.237 | 205.029u | 277.868u | 124.173u |
| Ni 231.604 | 79.1180 | 79.4367 | 80.0590 |
| Pb 220.353 | 179.838 | 179.168 | 178.477 |
| Sb 206.834 | 1.6036 | 4.9652 | 2.6232 |
| Se 196.026 | 3.6929 | 3.2391 | -5.0508u |
| Sn 189.925 | 19.2832 | 18.5323 | 25.6742 |
| Sr 216.596 | 114.569 | 113.955 | 113.541 |
| Ti 334.941 | 663.163 | 663.370 | 662.063 |
| Tl 190.794 | -5.6938u | -8.0892u | -1.7318u |
| V 292.401 | 199.093 | 199.293 | 198.926 |
| Zn 206.200 | 165.596 | 159.723 | 159.593 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -2.4844 | ppb | 0.0746 | 3.0 | -203.071 |
| Al 308.215 | 76612.3 | ppb | 72.5233 | 0.1 | 507579 |
| As 188.980 | 88.7104 | ppb | 1.8405 | 2.1 | 45.2024 |
| B 249.678 | 26.6102 | ppb | 0.6148 | 2.3 | 191.204 |
| Ba 389.178 | 554.286 | ppb | 1.0530 | 0.2 | 11270.8 |
| Be 313.042 | 6.3808 | ppb | 0.0085 | 0.1 | 10182.9 |
| Ca 370.602 | 339641 | ppb | 1777 | 0.5 | 784335 |
| Cd 226.502 | -0.4750 | ppb | 0.0174 | 3.7 | 415.767 |
| Co 228.615 | 56.8286 | ppb | 0.1396 | 0.2 | 615.024 |
| Cr 267.716 | 120.268 | ppb | 0.2078 | 0.2 | 6071.38 |
| Cu 324.754 | 95.0945 | ppb | 0.8607 | 0.9 | 6965.70 |
| Fe 271.441 | 117865 | ppb | 128.968 | 0.1 | 165999 |
| K 766.491 | 6562.44 | ppb | 12.5660 | 0.2 | 281054 |
| Mg 279.078 | 16476.5 | ppb | 23.8442 | 0.1 | 39937.5 |
| Mn 257.610 | 4658.07 | ppb | 1.5913 | 0.0 | 963749 |
| Mo 202.032 | 10.0171 | ppb | 0.5976 | 6.0 | 63.0515 |
| Na 330.237 | 202.357 | ppb | 76.8824 | 38.0 | -1.2456 |
| Ni 231.604 | 79.5379 | ppb | 0.4786 | 0.6 | 224.433 |
| Pb 220.353 | 179.161 | ppb | 0.6803 | 0.4 | 248.462 |
| Sb 206.834 | 3.0640 | ppb | 1.7236 | 56.3 | 9.8046 |
| Se 196.026 | 0.6271 | ppb | 4.9224 | 785.0 | 4.7623 |
| Sn 189.925 | 21.1632 | ppb | 3.9246 | 18.5 | 8.5415 |
| Sr 216.596 | 114.022 | ppb | 0.5172 | 0.5 | 1486.73 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 662.865 | ppb | 0.7021 | 0.1 | 183915 |
| Tl 190.794 | -5.1716 | ppb | 3.2107 | 62.1 | -22.6240 |
| V 292.401 | 199.104 | ppb | 0.1837 | 0.1 | 5198.16 |
| Zn 206.200 | 161.637 | ppb | 3.4287 | 2.1 | 142.231 |

**680-106198-b-11-a (Samp)** **10/15/2014, 4:51:31 PM** **Rack 2, Tube 28**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.8633u | -0.4315u | -0.4474u |
| Al 308.215 | 74959.2 | 75059.6 | 75006.8 |
| As 188.980 | 156.826 | 152.720 | 157.429 |
| B 249.678 | 57.5433 | 57.2287 | 57.9933 |
| Ba 389.178 | 1107.21 | 1109.52 | 1109.74 |
| Be 313.042 | 8.3770 | 8.3951 | 8.3894 |
| Ca 370.602 | 181053 | 181590 | 180392 |
| Cd 226.502 | 13.9837 | 13.6602 | 13.9390 |
| Co 228.615 | 72.5882 | 71.9044 | 72.1572 |
| Cr 267.716 | 165.605 | 165.174 | 165.222 |
| Cu 324.754 | 1140.80 | 1124.97 | 1127.64 |
| Fe 271.441 | 151408 | 151321 | 151386 |
| K 766.491 | 6000.51 | 6028.53 | 6007.68 |
| Mg 279.078 | 29312.4 | 29313.2 | 29306.2 |
| Mn 257.610 | 5277.57 | 5290.21 | 5290.27 |
| Mo 202.032 | 21.9392 | 22.1064 | 21.8351 |
| Na 330.237 | 953.968u | 883.204u | 863.238u |
| Ni 231.604 | 148.988 | 148.487 | 151.321 |
| Pb 220.353 | 2361.07 | 2357.97 | 2353.24 |
| Sb 206.834 | 47.5835 | 41.7109 | 42.1623 |
| Se 196.026 | 19.5792 | 7.7685 | 2.3550 |
| Sn 189.925 | 158.085 | 151.189 | 152.125 |
| Sr 216.596 | 426.035 | 426.745 | 426.038 |
| Ti 334.941 | 995.019 | 995.812 | 996.952 |
| Tl 190.794 | -5.1510u | -2.9009u | -5.2646u |
| V 292.401 | 292.782 | 292.896 | 292.652 |
| Zn 206.200 | 3445.50 | 3445.09 | 3458.54 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.5807 | ppb | 0.2448 | 42.2 | -67.2492 |
| Al 308.215 | 75008.6 | ppb | 50.2257 | 0.1 | 497032 |
| As 188.980 | 155.658 | ppb | 2.5623 | 1.6 | 80.9256 |
| B 249.678 | 57.5885 | ppb | 0.3843 | 0.7 | 589.710 |
| Ba 389.178 | 1108.83 | ppb | 1.4024 | 0.1 | 22550.9 |
| Be 313.042 | 8.3872 | ppb | 0.0093 | 0.1 | 13402.4 |
| Ca 370.602 | 181012 | ppb | 599.9 | 0.3 | 417441 |
| Cd 226.502 | 13.8610 | ppb | 0.1753 | 1.3 | 1072.44 |
| Co 228.615 | 72.2166 | ppb | 0.3457 | 0.5 | 783.494 |
| Cr 267.716 | 165.334 | ppb | 0.2362 | 0.1 | 8324.65 |
| Cu 324.754 | 1131.14 | ppb | 8.4735 | 0.7 | 79643.2 |
| Fe 271.441 | 151371 | ppb | 45.3526 | 0.0 | 213187 |
| K 766.491 | 6012.24 | ppb | 14.5553 | 0.2 | 257518 |
| Mg 279.078 | 29310.6 | ppb | 3.8215 | 0.0 | 71106.9 |
| Mn 257.610 | 5286.02 | ppb | 7.3146 | 0.1 | 1093792 |
| Mo 202.032 | 21.9602 | ppb | 0.1368 | 0.6 | 135435 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 900.137 | ppb | 47.6758 | 5.3 | -58.0233 |
| Ni 231.604 | 149.599 | ppb | 1.5128 | 1.0 | 421.043 |
| Pb 220.353 | 2357.43 | ppb | 3.9457 | 0.2 | 3352.52 |
| Sb 206.834 | 43.8189 | ppb | 3.2680 | 7.5 | 64.8422 |
| Se 196.026 | 9.9009 | ppb | 8.8079 | 89.0 | 8.7091 |
| Sn 189.925 | 153.800 | ppb | 3.7408 | 2.4 | 95.7477 |
| Sr 216.596 | 426.273 | ppb | 0.4089 | 0.1 | 4879.50 |
| Ti 334.941 | 995.928 | ppb | 0.9718 | 0.1 | 276359 |
| Tl 190.794 | -4.4388 | ppb | 1.3331 | 30.0 | -25.5100 |
| V 292.401 | 292.777 | ppb | 0.1224 | 0.0 | 7639.23 |
| Zn 206.200 | 3449.71 | ppb | 7.6493 | 0.2 | 3107.23 |

**680-106200-b-37-b (Samp)** **10/15/2014, 4:55:46 PM** **Rack 2, Tube 29**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.5739 | 1.4544 | 1.2251 |
| Al 308.215 | 27630.6 | 27546.5 | 27588.6 |
| As 188.980 | 122.257 | 124.074 | 120.328 |
| B 249.678 | 18.5587 | 18.1347 | 18.0923 |
| Ba 389.178 | 781.039 | 778.459 | 778.907 |
| Be 313.042 | 4.1557 | 4.1480 | 4.1628 |
| Ca 370.602 | 20223 | 20242 | 20302 |
| Cd 226.502 | 1.3893 | 1.3122 | 1.0529 |
| Co 228.615 | 40.2990 | 39.9207 | 39.7800 |
| Cr 267.716 | 88.1444 | 88.1768 | 88.1047 |
| Cu 324.754 | 189.814 | 190.995 | 189.685 |
| Fe 271.441 | 96682.1 | 96289.7 | 96544.1 |
| K 766.491 | 2681.01 | 2676.46 | 2682.55 |
| Mg 279.078 | 3669.19 | 3660.10 | 3665.84 |
| Mn 257.610 | 1984.42 | 1981.32 | 1984.72 |
| Mo 202.032 | 18.1225 | 17.2422 | 17.7999 |
| Na 330.237 | 583.503u | 576.397u | 449.055u |
| Ni 231.604 | 95.6371 | 96.0869 | 95.5925 |
| Pb 220.353 | 542.913 | 541.165 | 544.309 |
| Sb 206.834 | 8.7564 | 9.4590 | 4.1863 |
| Se 196.026 | 5.4511 | 13.1326 | 6.9901 |
| Sn 189.925 | 53.1329 | 49.5101 | 45.4343 |
| Sr 216.596 | 226.371 | 224.494 | 225.016 |
| Ti 334.941 | 1020.14 | 1016.61 | 1018.76 |
| Tl 190.794 | -3.2101u | -1.8538u | -0.6067u |
| V 292.401 | 113.796 | 113.444 | 113.442 |
| Zn 206.200 | 1009.73 | 1014.19 | 1002.94 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 1.0845 | ppb | 0.4568 | 42.1 | 60.9832 |
| Al 308.215 | 27588.6 | ppb | 42.0303 | 0.2 | 183130 |
| As 188.980 | 122.220 | ppb | 1.8735 | 1.5 | 62.8764 |
| B 249.678 | 18.2619 | ppb | 0.2579 | 1.4 | 109.371 |
| Ba 389.178 | 779.468 | ppb | 1.3782 | 0.2 | 15811.0 |
| Be 313.042 | 4.1555 | ppb | 0.0074 | 0.2 | 6455.86 |
| Ca 370.602 | 20256 | ppb | 41.17 | 0.2 | 46299 |
| Cd 226.502 | 1.2515 | ppb | 0.1763 | 14.1 | 404.691 |
| Co 228.615 | 39.9999 | ppb | 0.2684 | 0.7 | 444.997 |

E10152014.wvq. All Data Report 10/16/2014, 1:56:04 PM

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 88.1420 | ppb | 0.0361 | 0.0 | 4457.14 |
| Cu 324.754 | 190.165 | ppb | 0.7217 | 0.4 | 13626.3 |
| Fe 271.441 | 96505.3 | ppb | 199.093 | 0.2 | 135917 |
| K 766.491 | 2680.01 | ppb | 3.1672 | 0.1 | 114971 |
| Mg 279.078 | 3665.04 | ppb | 4.5945 | 0.1 | 8877.37 |
| Mn 257.610 | 1983.49 | ppb | 1.8859 | 0.1 | 410511 |
| Mo 202.032 | 17.7215 | ppb | 0.4453 | 2.5 | 111.715 |
| Na 330.237 | 536.318 | ppb | 75.6559 | 14.1 | -2.0927 |
| Ni 231.604 | 95.7722 | ppb | 0.2735 | 0.3 | 267.809 |
| Pb 220.353 | 542.796 | ppb | 1.5751 | 0.3 | 768.194 |
| Sb 206.834 | 7.4672 | ppb | 2.8630 | 38.3 | 14.5175 |
| Se 196.026 | 8.5246 | ppb | 4.0642 | 47.7 | 7.1332 |
| Sn 189.925 | 49.3591 | ppb | 3.8515 | 7.8 | 27.0799 |
| Sr 216.596 | 225.293 | ppb | 0.9690 | 0.4 | 2571.85 |
| Ti 334.941 | 1018.51 | ppb | 1.7789 | 0.2 | 282573 |
| Tl 190.794 | -1.8902 | ppb | 1.3021 | 68.9 | -18.2747 |
| V 292.401 | 113.561 | ppb | 0.2037 | 0.2 | 2979.09 |
| Zn 206.200 | 1008.95 | ppb | 5.6695 | 0.6 | 907.543 |

**CRI (Samp)** **10/15/2014, 5:00:02 PM** **Rack 2, Tube 30**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 10.6824 | 10.8312 | 10.5265 |
| Al 308.215 | 217.585 | 217.737 | 215.278 |
| As 188.980 | 23.7094 | 27.2547 | 24.5391 |
| B 249.678 | 102.260 | 102.715 | 103.146 |
| Ba 389.178 | 9.8814 | 9.4981 | 9.9264 |
| Be 313.042 | 4.1681 | 4.1698 | 4.1697 |
| Ca 370.602 | 526.1 | 523.6 | 525.7 |
| Cd 226.502 | 5.1950 | 5.1771 | 5.2589 |
| Co 228.615 | 10.4300 | 10.5811 | 10.1085 |
| Cr 267.716 | 10.5789 | 10.2604 | 10.4872 |
| Cu 324.754 | 21.8543 | 21.6656 | 21.9726 |
| Fe 271.441 | 65.3698 | 62.7426 | 69.1969 |
| K 766.491 | 1077.55 | 1077.98 | 1079.38 |
| Mg 279.078 | 514.908 | 513.451 | 514.594 |
| Mn 257.610 | 11.4272 | 11.3776 | 11.3849 |
| Mo 202.032 | 9.8878 | 9.9564 | 10.1057 |
| Na 330.237 | 858.081 | 855.160 | 852.625 |
| Ni 231.604 | 41.8655 | 42.1054 | 41.4922 |
| Pb 220.353 | 10.3536 | 11.8613 | 9.4268 |
| Sb 206.834 | 18.4767 | 22.3713 | 19.3607 |
| Se 196.026 | 26.5161 | 20.6887 | 28.0437 |
| Sn 189.925 | 51.5801 | 53.1045 | 50.6253 |
| Sr 216.596 | 10.1148 | 10.0700 | 10.8769 |
| Ti 334.941 | 10.6537 | 10.5782 | 10.6045 |
| Tl 190.794 | 25.2544 | 27.6017 | 27.9620 |
| V 292.401 | 10.5069 | 10.5059 | 10.3703 |
| Zn 206.200 | 20.6303 | 20.4730 | 21.9396 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 10.6801 | ppb | 0.1524 | 1.4 | 815.291 |
| Al 308.215 | 216.867 | ppb | 1.3777 | 0.6 | 1831.06 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 25.1677 | ppb | 1.8544 | 7.4 | 11.0893 |
| B 249.678 | 102.707 | ppb | 0.4431 | 0.4 | 1588.62 |
| Ba 389.178 | 9.7686 | ppb | 0.2354 | 2.4 | 148.085 |
| Be 313.042 | 4.1692 | ppb | 0.0010 | 0.0 | 6469.49 |
| Ca 370.602 | 525.1 | ppb | 1.337 | 0.3 | 1228 |
| Cd 226.502 | 5.2103 | ppb | 0.0430 | 0.8 | 208.437 |
| Co 228.615 | 10.3732 | ppb | 0.2414 | 2.3 | 111.153 |
| Cr 267.716 | 10.4422 | ppb | 0.1640 | 1.6 | 549.261 |
| Cu 324.754 | 21.8308 | ppb | 0.1548 | 0.7 | 1781.30 |
| Fe 271.441 | 65.7698 | ppb | 3.2457 | 4.9 | 100.692 |
| K 766.491 | 1078.30 | ppb | 0.9578 | 0.1 | 46452.9 |
| Mg 279.078 | 514.318 | ppb | 0.7672 | 0.1 | 1268.19 |
| Mn 257.610 | 11.3965 | ppb | 0.0268 | 0.2 | 2401.35 |
| Mo 202.032 | 9.9833 | ppb | 0.1114 | 1.1 | 68.0427 |
| Na 330.237 | 855.289 | ppb | 2.7302 | 0.3 | 62.3784 |
| Ni 231.604 | 41.8211 | ppb | 0.3090 | 0.7 | 111.056 |
| Pb 220.353 | 10.5472 | ppb | 1.2287 | 11.6 | 15.4582 |
| Sb 206.834 | 20.0695 | ppb | 2.0418 | 10.2 | 27.5411 |
| Se 196.026 | 25.0828 | ppb | 3.8813 | 15.5 | 12.4000 |
| Sn 189.925 | 51.7700 | ppb | 1.2505 | 2.4 | 28.6654 |
| Sr 216.596 | 10.3539 | ppb | 0.4535 | 4.4 | 114.627 |
| Ti 334.941 | 10.6121 | ppb | 0.0383 | 0.4 | 2883.59 |
| Tl 190.794 | 26.9393 | ppb | 1.4703 | 5.5 | 20.3836 |
| V 292.401 | 10.4611 | ppb | 0.0786 | 0.8 | 262.188 |
| Zn 206.200 | 21.0143 | ppb | 0.8052 | 3.8 | 20.1357 |

**mb 680-353346/1-a (Samp)** **10/15/2014, 5:04:18 PM** **Rack 2, Tube 31**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0293 | -0.5482u | -0.0110u |
| Al 308.215 | 10.4511 | 8.9812 | 10.6379 |
| As 188.980 | 1.0060 | 5.9338 | 8.4690 |
| B 249.678 | 3.3446 | 2.8926 | 3.0107 |
| Ba 389.178 | -0.4010u | -0.0899u | -0.5363u |
| Be 313.042 | 0.0173 | 0.0059 | 0.0126 |
| Ca 370.602 | 12.49 | 15.32 | 12.42 |
| Cd 226.502 | -0.0174u | -0.0665u | -0.0816u |
| Co 228.615 | -0.4370u | -0.2895u | -0.2878u |
| Cr 267.716 | 0.7894 | 0.5308 | 0.5096 |
| Cu 324.754 | -0.0767u | -0.1136u | -0.1613u |
| Fe 271.441 | 10.0877 | 8.9990 | -0.3136u |
| K 766.491 | 6.0906 | 5.5834 | 6.1962 |
| Mg 279.078 | 1.0231 | 0.7180 | -0.5760u |
| Mn 257.610 | 0.2198 | 0.1642 | 0.2153 |
| Mo 202.032 | 0.0772 | 0.0025 | 0.0337 |
| Na 330.237 | -87.7251u | 12.0725 | -8.0743u |
| Ni 231.604 | 1.5301 | 0.6108 | 1.5265 |
| Pb 220.353 | 0.5126 | -0.7366u | 2.0390 |
| Sb 206.834 | 4.5232 | 3.7198 | 3.1350 |
| Se 196.026 | -3.0372u | -0.6610u | 1.8183 |
| Sn 189.925 | 9.1250 | 9.7791 | 11.2455 |
| Sr 216.596 | 0.3343 | -0.0473u | 0.1415 |
| Ti 334.941 | 0.2766 | 0.2578 | 0.2807 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -0.1011u | 2.2476 | -0.6449u |
| V 292.401 | 0.0222 | -0.0561u | 0.2476 |
| Zn 206.200 | 1.5049 | 0.8043 | 2.2530 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1767 | ppb | 0.3224 | 182.5 | -24.1225 |
| Al 308.215 | 10.0234 | ppb | 0.9074 | 9.1 | 460.709 |
| As 188.980 | 5.1363 | ppb | 3.7949 | 73.9 | 0.3436 |
| B 249.678 | 3.0826 | ppb | 0.2344 | 7.6 | 82.1145 |
| Ba 389.178 | -0.3424 | ppb | 0.2289 | 66.8 | -57.7237 |
| Be 313.042 | 0.0119 | ppb | 0.0057 | 47.8 | -297.614 |
| Ca 370.602 | 13.41 | ppb | 1.654 | 12.3 | 42.14 |
| Cd 226.502 | -0.0552 | ppb | 0.0336 | 60.8 | 11.1707 |
| Co 228.615 | -0.3381 | ppb | 0.0857 | 25.3 | -0.3696 |
| Cr 267.716 | 0.6099 | ppb | 0.1558 | 25.5 | 61.4033 |
| Cu 324.754 | -0.1172 | ppb | 0.0424 | 36.2 | 241.677 |
| Fe 271.441 | 6.2577 | ppb | 5.7169 | 91.4 | 15.5982 |
| K 766.491 | 5.9567 | ppb | 0.3276 | 5.5 | 579.901 |
| Mg 279.078 | 0.3884 | ppb | 0.8490 | 218.6 | 19.8682 |
| Mn 257.610 | 0.1997 | ppb | 0.0309 | 15.5 | 82.0213 |
| Mo 202.032 | 0.0378 | ppb | 0.0375 | 99.2 | 6.5093 |
| Na 330.237 | -27.9090 | ppb | 52.7726 | 189.1 | 20.6798 |
| Ni 231.604 | 1.2225 | ppb | 0.5297 | 43.3 | -1.3888 |
| Pb 220.353 | 0.6050 | ppb | 1.3901 | 229.8 | 1.2983 |
| Sb 206.834 | 3.7927 | ppb | 0.6969 | 18.4 | 6.1323 |
| Se 196.026 | -0.6266 | ppb | 2.4279 | 387.5 | 2.4989 |
| Sn 189.925 | 10.0499 | ppb | 1.0859 | 10.8 | 1.2348 |
| Sr 216.596 | 0.1428 | ppb | 0.1908 | 133.6 | 3.9307 |
| Ti 334.941 | 0.2717 | ppb | 0.0122 | 4.5 | 13.5211 |
| Tl 190.794 | 0.5005 | ppb | 1.5373 | 307.1 | -5.4745 |
| V 292.401 | 0.0712 | ppb | 0.1576 | 221.3 | -5.2694 |
| Zn 206.200 | 1.5207 | ppb | 0.7245 | 47.6 | 2.5766 |

**lcs 680-353346/2-a (Samp)** **10/15/2014, 5:08:34 PM** **Rack 2, Tube 32**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 48.5152 | 48.8493 | 49.1536 |
| Al 308.215 | 4758.72 | 4758.60 | 4775.09 |
| As 188.980 | 102.813 | 111.864 | 109.832 |
| B 249.678 | 185.651 | 186.676 | 188.195 |
| Ba 389.178 | 97.5599 | 96.8771 | 96.5953 |
| Be 313.042 | 49.6997 | 49.5833 | 49.7868 |
| Ca 370.602 | 4878 | 4846 | 4864 |
| Cd 226.502 | 49.1707 | 49.1099 | 49.1720 |
| Co 228.615 | 49.8916 | 49.2979 | 50.0213 |
| Cr 267.716 | 99.4895 | 99.1298 | 99.6479 |
| Cu 324.754 | 100.014 | 97.5953 | 99.9653 |
| Fe 271.441 | 4898.80 | 4888.42 | 4888.90 |
| K 766.491 | 4941.23 | 4933.45 | 4959.53 |
| Mg 279.078 | 4793.07 | 4779.48 | 4787.55 |
| Mn 257.610 | 512.836 | 511.034 | 511.868 |
| Mo 202.032 | 97.8775 | 98.8167 | 98.8802 |
| Na 330.237 | 4539.19 | 4560.23 | 4394.09 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 99.0560 | 97.1298 | 99.5521 |
| Pb 220.353 | 494.050 | 489.835 | 491.344 |
| Sb 206.834 | 52.9557 | 48.7982 | 51.0217 |
| Se 196.026 | 100.151 | 100.682 | 100.325 |
| Sn 189.925 | 198.735 | 203.683 | 205.397 |
| Sr 216.596 | 96.9679 | 96.6741 | 96.7890 |
| Ti 334.941 | 98.3756 | 98.0500 | 98.6350 |
| Tl 190.794 | 40.9250 | 41.3613 | 42.6960 |
| V 292.401 | 98.2996 | 98.1356 | 98.6619 |
| Zn 206.200 | 100.672 | 100.227 | 100.870 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 48.8394 | ppb | 0.3193 | 0.7 | 3765.62 |
| Al 308.215 | 4764.14 | ppb | 9.4853 | 0.2 | 31943.1 |
| As 188.980 | 108.169 | ppb | 4.7490 | 4.4 | 55.6108 |
| B 249.678 | 186.840 | ppb | 1.2797 | 0.7 | 2851.08 |
| Ba 389.178 | 97.0108 | ppb | 0.4960 | 0.5 | 1925.85 |
| Be 313.042 | 49.6899 | ppb | 0.1021 | 0.2 | 80569.6 |
| Ca 370.602 | 4863 | ppb | 16.05 | 0.3 | 11250 |
| Cd 226.502 | 49.1509 | ppb | 0.0354 | 0.1 | 1870.15 |
| Co 228.615 | 49.7369 | ppb | 0.3857 | 0.8 | 521.060 |
| Cr 267.716 | 99.4224 | ppb | 0.2655 | 0.3 | 4967.98 |
| Cu 324.754 | 99.1914 | ppb | 1.3825 | 1.4 | 7211.26 |
| Fe 271.441 | 4892.04 | ppb | 5.8594 | 0.1 | 6902.41 |
| K 766.491 | 4944.73 | ppb | 13.3908 | 0.3 | 211852 |
| Mg 279.078 | 4786.70 | ppb | 6.8335 | 0.1 | 11637.2 |
| Mn 257.610 | 511.913 | ppb | 0.9023 | 0.2 | 105949 |
| Mo 202.032 | 98.5248 | ppb | 0.5615 | 0.6 | 615.675 |
| Na 330.237 | 4497.84 | ppb | 90.4640 | 2.0 | 233.245 |
| Ni 231.604 | 98.5793 | ppb | 1.2796 | 1.3 | 268.571 |
| Pb 220.353 | 491.743 | ppb | 2.1360 | 0.4 | 701.265 |
| Sb 206.834 | 50.9252 | ppb | 2.0804 | 4.1 | 67.9370 |
| Se 196.026 | 100.386 | ppb | 0.2704 | 0.3 | 41.5252 |
| Sn 189.925 | 202.605 | ppb | 3.4593 | 1.7 | 127.838 |
| Sr 216.596 | 96.8103 | ppb | 0.1480 | 0.2 | 1063.54 |
| Ti 334.941 | 98.3535 | ppb | 0.2931 | 0.3 | 27237.9 |
| Tl 190.794 | 41.6608 | ppb | 0.9227 | 2.2 | 34.3862 |
| V 292.401 | 98.3657 | ppb | 0.2693 | 0.3 | 2525.75 |
| Zn 206.200 | 100.590 | ppb | 0.3293 | 0.3 | 91.5136 |

**680-106200-b-18-a (Samp)** **10/15/2014, 5:12:50 PM** **Rack 2, Tube 33**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2467u | -0.5690u | -0.2647u |
| Al 308.215 | 138919 | 138963 | 139113 |
| As 188.980 | 281.583 | 271.872 | 272.564 |
| B 249.678 | 63.6548 | 62.1117 | 63.6775 |
| Ba 389.178 | 2753.34 | 2759.00 | 2759.71 |
| Be 313.042 | 14.2081 | 14.2365 | 14.2088 |
| Ca 370.602 | 59093 | 58887 | 58658 |
| Cd 226.502 | 5.5759 | 5.7262 | 6.0197 |
| Co 228.615 | 129.765 | 130.541 | 129.851 |
| Cr 267.716 | 355.997 | 356.054 | 355.118 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 1565.52 | 1573.00 | 1582.12 |
| Fe 271.441 | 385468 | 385600 | 386074 |
| K 766.491 | 13574.3 | 13603.7 | 13606.4 |
| Mg 279.078 | 11508.0 | 11510.0 | 11502.0 |
| Mn 257.610 | 17450.9 | 17467.3 | 17452.1 |
| Mo 202.032 | 24.2875 | 24.0578 | 23.0442 |
| Na 330.237 | 1744.32u | 1656.44u | 1444.28u |
| Ni 231.604 | 142.579 | 141.955 | 143.363 |
| Pb 220.353 | 1708.69 | 1708.71 | 1709.76 |
| Sb 206.834 | 21.6380 | 15.9616 | 8.5604 |
| Se 196.026 | 9.8238 | 5.9121 | 7.3657 |
| Sn 189.925 | 129.900 | 133.524 | 126.497 |
| Sr 216.596 | 413.151 | 413.981 | 414.224 |
| Ti 334.941 | 1193.93 | 1194.23 | 1194.01 |
| Tl 190.794 | -5.2347u | 0.2422u | -0.4126u |
| V 292.401 | 458.987 | 460.253 | 459.288 |
| Zn 206.200 | 3487.86 | 3508.55 | 3482.03 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.3601 | ppb | 0.1811 | 50.3 | -28.0333 |
| Al 308.215 | 138999 | ppb | 101.738 | 0.1 | 920881 |
| As 188.980 | 275.340 | ppb | 5.4184 | 2.0 | 144.435 |
| B 249.678 | 63.1480 | ppb | 0.8975 | 1.4 | 181.720 |
| Ba 389.178 | 2757.35 | ppb | 3.4915 | 0.1 | 56079.9 |
| Be 313.042 | 14.2178 | ppb | 0.0162 | 0.1 | 22860.0 |
| Ca 370.602 | 58880 | ppb | 217.6 | 0.4 | 133146 |
| Cd 226.502 | 5.7739 | ppb | 0.2257 | 3.9 | 1606.90 |
| Co 228.615 | 130.052 | ppb | 0.4251 | 0.3 | 1404.60 |
| Cr 267.716 | 355.723 | ppb | 0.5246 | 0.1 | 17928.6 |
| Cu 324.754 | 1573.55 | ppb | 8.3139 | 0.5 | 110767 |
| Fe 271.441 | 385714 | ppb | 318.513 | 0.1 | 543209 |
| K 766.491 | 13594.8 | ppb | 17.7946 | 0.1 | 581886 |
| Mg 279.078 | 11506.7 | ppb | 4.1980 | 0.0 | 27606.1 |
| Mn 257.610 | 17456.8 | ppb | 9.1509 | 0.1 | 3611139 |
| Mo 202.032 | 23.7965 | ppb | 0.6616 | 2.8 | 136.636 |
| Na 330.237 | 1615.01 | ppb | 154.250 | 9.6 | -80.5140 |
| Ni 231.604 | 142.632 | ppb | 0.7054 | 0.5 | 419.529 |
| Pb 220.353 | 1709.05 | ppb | 0.6135 | 0.0 | 2415.31 |
| Sb 206.834 | 15.3867 | ppb | 6.5577 | 42.6 | 36.3862 |
| Se 196.026 | 7.7005 | ppb | 1.9772 | 25.7 | 11.9758 |
| Sn 189.925 | 129.974 | ppb | 3.5139 | 2.7 | 80.0824 |
| Sr 216.596 | 413.785 | ppb | 0.5622 | 0.1 | 4952.98 |
| Ti 334.941 | 1194.06 | ppb | 0.1547 | 0.0 | 331336 |
| Tl 190.794 | -1.8017 | ppb | 2.9910 | 166.0 | -45.1689 |
| V 292.401 | 459.509 | ppb | 0.6612 | 0.1 | 12038.4 |
| Zn 206.200 | 3492.81 | ppb | 13.9347 | 0.4 | 3136.68 |

**680-106200-b-18-aSD (Samp)** **10/15/2014, 5:17:07 PM** **Rack 2, Tube 34**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2773u | -0.1555u | 0.0018 |
| Al 308.215 | 31329.5 | 30344.7 | 29194.4 |
| As 188.980 | 66.9167 | 65.3873 | 60.5282 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 15.4356 | 15.3571 | 15.1122 |
| Ba 389.178 | 637.467 | 618.196 | 592.416 |
| Be 313.042 | 3.2553 | 3.1749 | 3.0378 |
| Ca 370.602 | 13523 | 13150 | 12600 |
| Cd 226.502 | 1.3598 | 0.8501 | 0.5804 |
| Co 228.615 | 30.1756 | 29.8999 | 28.1507 |
| Cr 267.716 | 82.8929 | 80.4320 | 76.8704 |
| Cu 324.754 | 354.727 | 343.303 | 329.367 |
| Fe 271.441 | 89443.0 | 86664.1 | 83084.3 |
| K 766.491 | 2815.39 | 2733.60 | 2641.63 |
| Mg 279.078 | 2743.63 | 2665.40 | 2564.30 |
| Mn 257.610 | 4203.65 | 4093.02 | 3907.13 |
| Mo 202.032 | 5.1162 | 5.1688 | 5.0353 |
| Na 330.237 | 311.495u | 290.500u | 432.592u |
| Ni 231.604 | 34.3162 | 33.2114 | 31.3566 |
| Pb 220.353 | 405.210 | 393.242 | 376.184 |
| Sb 206.834 | 2.8834 | 3.5409 | 8.4989 |
| Se 196.026 | 8.3103 | 7.8286 | -4.8526u |
| Sn 189.925 | 31.5061 | 30.1095 | 32.0303 |
| Sr 216.596 | 98.9334 | 95.3198 | 89.7812 |
| Ti 334.941 | 277.231 | 268.826 | 258.467 |
| Tl 190.794 | -0.1201u | -1.8554u | -2.9752u |
| V 292.401 | 106.787 | 103.800 | 99.1176 |
| Zn 206.200 | 827.618 | 796.571 | 763.832 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1437 | ppb | 0.1399 | 97.4 | -18.5976 |
| Al 308.215 | 30289.5 | ppb | 1068.59 | 3.5 | 200984 |
| As 188.980 | 64.2774 | ppb | 3.3357 | 5.2 | 31.8703 |
| B 249.678 | 15.3017 | ppb | 0.1687 | 1.1 | 85.8176 |
| Ba 389.178 | 616.026 | ppb | 22.6038 | 3.7 | 12489.7 |
| Be 313.042 | 3.1560 | ppb | 0.1100 | 3.5 | 4827.80 |
| Ca 370.602 | 13091 | ppb | 464.6 | 3.5 | 29610 |
| Cd 226.502 | 0.9301 | ppb | 0.3958 | 42.6 | 356.464 |
| Co 228.615 | 29.4087 | ppb | 1.0982 | 3.7 | 319.974 |
| Cr 267.716 | 80.0651 | ppb | 3.0280 | 3.8 | 4059.83 |
| Cu 324.754 | 342.466 | ppb | 12.7005 | 3.7 | 24303.7 |
| Fe 271.441 | 86397.2 | ppb | 3187.74 | 3.7 | 121680 |
| K 766.491 | 2730.21 | ppb | 86.9291 | 3.2 | 117118 |
| Mg 279.078 | 2657.78 | ppb | 89.9081 | 3.4 | 6391.00 |
| Mn 257.610 | 4067.93 | ppb | 149.841 | 3.7 | 841521 |
| Mo 202.032 | 5.1068 | ppb | 0.0672 | 1.3 | 34.0938 |
| Na 330.237 | 344.862 | ppb | 76.6982 | 22.2 | -2.0732 |
| Ni 231.604 | 32.9614 | ppb | 1.4955 | 4.5 | 93.0663 |
| Pb 220.353 | 391.545 | ppb | 14.5873 | 3.7 | 553.839 |
| Sb 206.834 | 4.9744 | ppb | 3.0700 | 61.7 | 11.0447 |
| Se 196.026 | 3.7621 | ppb | 7.4645 | 198.4 | 5.6221 |
| Sn 189.925 | 31.2153 | ppb | 0.9929 | 3.2 | 15.1507 |
| Sr 216.596 | 94.6782 | ppb | 4.6097 | 4.9 | 1133.12 |
| Ti 334.941 | 268.175 | ppb | 9.3988 | 3.5 | 74367.3 |
| Tl 190.794 | -1.6502 | ppb | 1.4385 | 87.2 | -15.8871 |
| V 292.401 | 103.235 | ppb | 3.8659 | 3.7 | 2699.03 |
| Zn 206.200 | 796.007 | ppb | 31.8965 | 4.0 | 715.837 |

**680-106200-b-18-aPDS (Samp)** **10/15/2014, 5:21:24 PM** **Rack 2, Tube 35**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 90.7280 | 90.4475 | 90.5038 |
| Al 308.215 | 139228 | 139376 | 139500 |
| As 188.980 | 376.380 | 373.956 | 374.135 |
| B 249.678 | 238.031 | 241.180 | 242.569 |
| Ba 389.178 | 2803.22 | 2807.24 | 2801.99 |
| Be 313.042 | 106.421 | 106.637 | 106.334 |
| Ca 370.602 | 67865 | 67643 | 67394 |
| Cd 226.502 | 94.0628 | 96.2963 | 96.2096 |
| Co 228.615 | 220.571 | 221.044 | 221.242 |
| Cr 267.716 | 443.917 | 444.440 | 443.194 |
| Cu 324.754 | 1670.53 | 1649.62 | 1670.56 |
| Fe 271.441 | 389939 | 389612 | 389082 |
| K 766.491 | 23393.0 | 23415.3 | 23523.3 |
| Mg 279.078 | 20405.3 | 20416.5 | 20371.0 |
| Mn 257.610 | 18083.2 | 18141.4 | 18048.0 |
| Mo 202.032 | 115.513 | 114.560 | 116.304 |
| Na 330.237 | 10280.0 | 10171.5 | 10185.9 |
| Ni 231.604 | 232.317 | 229.009 | 225.875 |
| Pb 220.353 | 1771.13 | 1781.90 | 1760.70 |
| Sb 206.834 | 111.968 | 105.804 | 111.633 |
| Se 196.026 | 102.485 | 101.059 | 82.7197 |
| Sn 189.925 | 219.907 | 212.053 | 212.868 |
| Sr 216.596 | 499.760 | 499.033 | 496.962 |
| Ti 334.941 | 1274.83 | 1276.86 | 1275.16 |
| Tl 190.794 | 14.4387u | 15.0172u | 16.7939u |
| V 292.401 | 550.113 | 549.002 | 547.630 |
| Zn 206.200 | 3551.20 | 3545.58 | 3541.93 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 90.5598 | ppb | 0.1484 | 0.2 | 7003.53 |
| Al 308.215 | 139368 | ppb | 135.909 | 0.1 | 923346 |
| As 188.980 | 374.824 | ppb | 1.3511 | 0.4 | 197.769 |
| B 249.678 | 240.593 | ppb | 2.3252 | 1.0 | 2858.30 |
| Ba 389.178 | 2804.15 | ppb | 2.7483 | 0.1 | 57042.8 |
| Be 313.042 | 106.464 | ppb | 0.1561 | 0.1 | 173028 |
| Ca 370.602 | 67634 | ppb | 235.3 | 0.3 | 153388 |
| Cd 226.502 | 95.5229 | ppb | 1.2652 | 1.3 | 4979.05 |
| Co 228.615 | 220.953 | ppb | 0.3448 | 0.2 | 2351.10 |
| Cr 267.716 | 443.850 | ppb | 0.6259 | 0.1 | 22304.6 |
| Cu 324.754 | 1663.57 | ppb | 12.0803 | 0.7 | 117085 |
| Fe 271.441 | 389544 | ppb | 432.166 | 0.1 | 548614 |
| K 766.491 | 23443.9 | ppb | 69.6993 | 0.3 | 1003212 |
| Mg 279.078 | 20397.6 | ppb | 23.7045 | 0.1 | 49195.0 |
| Mn 257.610 | 18090.9 | ppb | 47.1750 | 0.3 | 3742341 |
| Mo 202.032 | 115.459 | ppb | 0.8730 | 0.8 | 703.629 |
| Na 330.237 | 10212.5 | ppb | 58.9693 | 0.6 | 328.204 |
| Ni 231.604 | 229.067 | ppb | 3.2212 | 1.4 | 659.054 |
| Pb 220.353 | 1771.24 | ppb | 10.5987 | 0.6 | 2503.76 |
| Sb 206.834 | 109.802 | ppb | 3.4660 | 3.2 | 160.491 |
| Se 196.026 | 95.4212 | ppb | 11.0229 | 11.6 | 45.8971 |
| Sn 189.925 | 214.942 | ppb | 4.3184 | 2.0 | 135.951 |
| Sr 216.596 | 498.585 | ppb | 1.4519 | 0.3 | 5883.12 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 1275.61 | ppb | 1.0933 | 0.1 | 353982 |
| Tl 190.794 | 15.4166 | ppb | 1.2273 | 8.0 | -28.4064 |
| V 292.401 | 548.915 | ppb | 1.2435 | 0.2 | 14339.9 |
| Zn 206.200 | 3546.24 | ppb | 4.6685 | 0.1 | 3184.50 |

**680-106200-b-18-b ms (Samp)** **10/15/2014, 5:25:42 PM** **Rack 2, Tube 36**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 47.6546 | 46.9574 | 47.4637 |
| Al 308.215 | 140475 | 140492 | 140555 |
| As 188.980 | 412.175 | 406.232 | 410.040 |
| B 249.678 | 166.810 | 165.834 | 166.987 |
| Ba 389.178 | 2610.70 | 2613.07 | 2608.83 |
| Be 313.042 | 60.4453 | 60.5774 | 60.5811 |
| Ca 370.602 | 96919 | 97321 | 97240 |
| Cd 226.502 | 51.3482 | 50.7762 | 50.7795 |
| Co 228.615 | 170.262 | 171.240 | 172.018 |
| Cr 267.716 | 427.337 | 429.292 | 428.858 |
| Cu 324.754 | 638.310 | 630.909 | 633.117 |
| Fe 271.441 | 457755 | 456344 | 455147 |
| K 766.491 | 16322.1 | 16345.6 | 16318.1 |
| Mg 279.078 | 40542.1 | 40620.3 | 40566.3 |
| Mn 257.610 | 13782.4 | 13783.3 | 13801.0 |
| Mo 202.032 | 110.502 | 109.672 | 109.959 |
| Na 330.237 | 6251.97 | 5947.92 | 6138.17 |
| Ni 231.604 | 224.932 | 224.677 | 224.260 |
| Pb 220.353 | 1942.79 | 1943.13 | 1943.26 |
| Sb 206.834 | 28.3674 | 27.2634 | 28.8755 |
| Se 196.026 | 96.3892 | 90.9810 | 86.0011 |
| Sn 189.925 | 362.857 | 361.793 | 365.463 |
| Sr 216.596 | 467.897 | 468.712 | 468.347 |
| Ti 334.941 | 1176.08 | 1177.67 | 1177.00 |
| Tl 190.794 | 19.4593u | 14.3974u | 28.2633u |
| V 292.401 | 647.952 | 649.614 | 648.822 |
| Zn 206.200 | 3389.06 | 3426.32 | 3388.11 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 47.3586 | ppb | 0.3603 | 0.8 | 3632.35 |
| Al 308.215 | 140507 | ppb | 41.8120 | 0.0 | 931007 |
| As 188.980 | 409.482 | ppb | 3.0108 | 0.7 | 216.019 |
| B 249.678 | 166.544 | ppb | 0.6209 | 0.4 | 1596.54 |
| Ba 389.178 | 2610.87 | ppb | 2.1282 | 0.1 | 53182.0 |
| Be 313.042 | 60.5346 | ppb | 0.0774 | 0.1 | 98269.0 |
| Ca 370.602 | 97160 | ppb | 212.8 | 0.2 | 220866 |
| Cd 226.502 | 50.9680 | ppb | 0.3293 | 0.6 | 3551.96 |
| Co 228.615 | 171.173 | ppb | 0.8800 | 0.5 | 1834.88 |
| Cr 267.716 | 428.495 | ppb | 1.0265 | 0.2 | 21552.3 |
| Cu 324.754 | 634.112 | ppb | 3.7997 | 0.6 | 44908.2 |
| Fe 271.441 | 456415 | ppb | 1305.46 | 0.3 | 642781 |
| K 766.491 | 16328.6 | ppb | 14.8869 | 0.1 | 698833 |
| Mg 279.078 | 40576.3 | ppb | 40.0117 | 0.1 | 98297.8 |
| Mn 257.610 | 13788.9 | ppb | 10.5178 | 0.1 | 2853069 |
| Mo 202.032 | 110.044 | ppb | 0.4219 | 0.4 | 667155 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 6112.69 | ppb | 153.614 | 2.5 | 120.108 |
| Ni 231.604 | 224.623 | ppb | 0.3394 | 0.2 | 651.980 |
| Pb 220.353 | 1943.06 | ppb | 0.2408 | 0.0 | 2743.96 |
| Sb 206.834 | 28.1688 | ppb | 0.8242 | 2.9 | 54.8398 |
| Se 196.026 | 91.1238 | ppb | 5.1955 | 5.7 | 43.9298 |
| Sn 189.925 | 363.371 | ppb | 1.8881 | 0.5 | 233.539 |
| Sr 216.596 | 468.319 | ppb | 0.4084 | 0.1 | 5634.15 |
| Ti 334.941 | 1176.92 | ppb | 0.7965 | 0.1 | 326636 |
| Tl 190.794 | 20.7067 | ppb | 7.0166 | 33.9 | -33.2255 |
| V 292.401 | 648.796 | ppb | 0.8312 | 0.1 | 16953.0 |
| Zn 206.200 | 3401.16 | ppb | 21.7896 | 0.6 | 3051.09 |

**Cont Calib Verif (CCV)** **10/15/2014, 5:29:58 PM** **Rack 2, Tube 37**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 489.109 | 488.109 | 490.568 |
| Al 308.215 | 4810.93 | 4818.12 | 4819.76 |
| As 188.980 | 449.552 | 460.383 | 458.518 |
| B 249.678 | 480.575 | 482.165 | 483.897 |
| Ba 389.178 | 4796.52 | 4801.03 | 4793.57 |
| Be 313.042 | 484.121 | 483.215 | 484.087 |
| Ca 370.602 | 4845 | 4853 | 4859 |
| Cd 226.502 | 484.328 | 484.012 | 483.996 |
| Co 228.615 | 493.253 | 492.544 | 492.969 |
| Cr 267.716 | 4841.82 | 4842.56 | 4843.38 |
| Cu 324.754 | 4974.05 | 5036.12 | 5014.26 |
| Fe 271.441 | 4875.45 | 4884.57 | 4894.58 |
| K 766.491 | 10036.1 | 10039.7 | 10080.9 |
| Mg 279.078 | 4832.39 | 4842.27 | 4847.26 |
| Mn 257.610 | 4959.38 | 4951.03 | 4966.87 |
| Mo 202.032 | 486.050 | 487.764 | 490.558 |
| Na 330.237 | 7571.61 | 7382.74 | 7602.62 |
| Ni 231.604 | 2455.17 | 2462.38 | 2456.61 |
| Pb 220.353 | 488.663 | 495.462 | 494.566 |
| Sb 206.834 | 916.889 | 922.437 | 916.746 |
| Se 196.026 | 4786.82 | 4772.20 | 4788.72 |
| Sn 189.925 | 4884.34 | 4874.42 | 4847.73 |
| Sr 216.596 | 2401.79 | 2406.68 | 2403.24 |
| Ti 334.941 | 478.635 | 479.143 | 479.524 |
| Tl 190.794 | 4963.62 | 4959.56 | 4965.17 |
| V 292.401 | 4831.93 | 4837.87 | 4842.23 |
| Zn 206.200 | 2413.15 | 2414.05 | 2400.38 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 489.262 | ppb | 1.2370 | 0.3 | 37788.6 | 97.85235 |
| Al 308.215 | 4816.27 | ppb | 4.7002 | 0.1 | 32769.9 | 96.32539 |
| As 188.980 | 456.151 | ppb | 5.7906 | 1.3 | 242.208 | 91.23016 |
| B 249.678 | 482.212 | ppb | 1.6617 | 0.3 | 7329.07 | 96.44246 |
| Ba 389.178 | 4797.04 | ppb | 3.7604 | 0.1 | 97259.9 | 95.94083 |
| Be 313.042 | 483.808 | ppb | 0.5138 | 0.1 | 787481 | 96.76152 |
| Ca 370.602 | 4853 | ppb | 7.026 | 0.1 | 11486 | 97.05009 |
| Cd 226.502 | 484.112 | ppb | 0.1871 | 0.0 | 18148.3 | 96.82238 |
| Co 228.615 | 492.922 | ppb | 0.3569 | 0.1 | 5142.10 | 98.58446 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Cr 267.716 | 4842.59 | ppb | 0.7821 | 0.0 | 240304 | 96.85175 |
| Cu 324.754 | 5008.14 | ppb | 31.4840 | 0.6 | 351456 | 100.16280 |
| Fe 271.441 | 4884.87 | ppb | 9.5691 | 0.2 | 6982.86 | 97.69737 |
| K 766.491 | 10052.2 | ppb | 24.8460 | 0.2 | 430342 | 100.52243 |
| Mg 279.078 | 4840.64 | ppb | 7.5648 | 0.2 | 11686.5 | 96.81277 |
| Mn 257.610 | 4959.09 | ppb | 7.9246 | 0.2 | 1025589 | 99.18182 |
| Mo 202.032 | 488.124 | ppb | 2.2755 | 0.5 | 3021.96 | 97.62474 |
| Na 330.237 | 7518.99 | ppb | 119.011 | 1.6 | 320.088 | 100.25315 |
| Ni 231.604 | 2458.05 | ppb | 3.8161 | 0.2 | 6803.74 | 98.32216 |
| Pb 220.353 | 492.897 | ppb | 3.6945 | 0.7 | 706.442 | 98.57942 |
| Sb 206.834 | 918.690 | ppb | 3.2449 | 0.4 | 1256.70 | 91.86905 |
| Se 196.026 | 4782.58 | ppb | 9.0405 | 0.2 | 1845.09 | 95.65159 |
| Sn 189.925 | 4868.83 | ppb | 18.9330 | 0.4 | 3195.81 | 97.37661 |
| Sr 216.596 | 2403.90 | ppb | 2.5074 | 0.1 | 26208.2 | 96.15615 |
| Ti 334.941 | 479.101 | ppb | 0.4462 | 0.1 | 132888 | 95.82018 |
| Tl 190.794 | 4962.78 | ppb | 2.8996 | 0.1 | 4854.00 | 99.25565 |
| V 292.401 | 4837.34 | ppb | 5.1739 | 0.1 | 125093 | 96.74687 |
| Zn 206.200 | 2409.20 | ppb | 7.6461 | 0.3 | 2162.10 | 96.36782 |

**Cont Calib Blank (CCB)** **10/15/2014, 5:34:15 PM** **Rack 2, Tube 38**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1262 | 0.0212 | 0.1456 |
| Al 308.215 | 7.9571 | 10.4786 | 11.4228 |
| As 188.980 | 2.3408 | 3.8292 | 6.3563 |
| B 249.678 | 10.4861 | 8.5923 | 8.5141 |
| Ba 389.178 | 0.4737 | 0.8847 | 0.2434 |
| Be 313.042 | 0.0362 | 0.0495 | 0.0548 |
| Ca 370.602 | 0.4883 | 3.822 | 6.681 |
| Cd 226.502 | 0.1339 | 0.1474 | -0.0097u |
| Co 228.615 | 0.3460 | 0.1243 | 0.2567 |
| Cr 267.716 | 0.2035 | 0.3815 | 0.2344 |
| Cu 324.754 | 0.2854 | 0.3741 | 0.5206 |
| Fe 271.441 | 11.2497 | 7.6675 | 10.9714 |
| K 766.491 | -1.0498u | -0.7898u | -0.8085u |
| Mg 279.078 | -2.7474u | -0.5943u | 1.4652 |
| Mn 257.610 | 0.5337 | 0.7581 | 0.8223 |
| Mo 202.032 | 1.1502 | 0.4693 | 0.9843 |
| Na 330.237 | -133.927u | -79.4157u | -131.864u |
| Ni 231.604 | 0.6478 | 0.0092 | 1.0977 |
| Pb 220.353 | 1.4367 | -0.3604u | 1.6407 |
| Sb 206.834 | 6.1745 | 4.3118 | 3.6156 |
| Se 196.026 | 3.3491 | 2.4810 | 3.2662 |
| Sn 189.925 | -0.0646u | 0.6840 | 1.1756 |
| Sr 216.596 | 0.7095 | 0.5474 | 0.3089 |
| Ti 334.941 | 0.1380 | 0.1530 | 0.2343 |
| Tl 190.794 | 1.6981 | 2.8833 | -2.2914u |
| V 292.401 | 0.3605 | 0.4592 | 0.5605 |
| Zn 206.200 | 1.0865 | 1.5833 | 1.8959 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.0977 | ppb | 0.0669 | 68.5 | -2.9180 | 0.09767 |
| Al 308.215 | 9.9528 | ppb | 1.7917 | 18.0 | 460.336 | 9.95283 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| As 188.980 | 4.1755 | ppb | 2.0300 | 48.6 | -0.1721 | 4.17545 |
| B 249.678 | 9.1975 | ppb | 1.1166 | 12.1 | 174.585 | 9.19748 |
| Ba 389.178 | 0.5339 | ppb | 0.3249 | 60.9 | -39.9432 | 0.53392 |
| Be 313.042 | 0.0468 | ppb | 0.0096 | 20.4 | -240.885 | 0.04684 |
| Ca 370.602 | 3.664 | ppb | 3.100 | 84.6 | 19.56 | 3.66381 |
| Cd 226.502 | 0.0905 | ppb | 0.0871 | 96.2 | 16.6365 | 0.09054 |
| Co 228.615 | 0.2423 | ppb | 0.1115 | 46.0 | 5.6592 | 0.24234 |
| Cr 267.716 | 0.2731 | ppb | 0.0951 | 34.8 | 44.6879 | 0.27315 |
| Cu 324.754 | 0.3934 | ppb | 0.1188 | 30.2 | 277.515 | 0.39338 |
| Fe 271.441 | 9.9629 | ppb | 1.9927 | 20.0 | 20.8874 | 9.96287 |
| K 766.491 | -0.8827 | ppb | 0.1450 | 16.4 | 287.322 | -0.88270 |
| Mg 279.078 | -0.6255 | ppb | 2.1064 | 336.8 | 17.3956 | -0.62549 |
| Mn 257.610 | 0.7047 | ppb | 0.1515 | 21.5 | 186.463 | 0.70470 |
| Mo 202.032 | 0.8679 | ppb | 0.3550 | 40.9 | 11.6457 | 0.86794 |
| Na 330.237 | -115.069 | ppb | 30.8937 | 26.8 | 16.4975 | -115.06884 |
| Ni 231.604 | 0.5849 | ppb | 0.5470 | 93.5 | -3.1561 | 0.58488 |
| Pb 220.353 | 0.9057 | ppb | 1.1012 | 121.6 | 1.7255 | 0.90569 |
| Sb 206.834 | 4.7006 | ppb | 1.3230 | 28.1 | 7.3088 | 4.70064 |
| Se 196.026 | 3.0321 | ppb | 0.4790 | 15.8 | 3.9077 | 3.03211 |
| Sn 189.925 | 0.5984 | ppb | 0.6245 | 104.4 | -4.9794 | 0.59835 |
| Sr 216.596 | 0.5219 | ppb | 0.2015 | 38.6 | 8.0764 | 0.52191 |
| Ti 334.941 | 0.1751 | ppb | 0.0518 | 29.6 | -13.2796 | 0.17511 |
| Tl 190.794 | 0.7633 | ppb | 2.7110 | 355.2 | -5.2181 | 0.76332 |
| V 292.401 | 0.4600 | ppb | 0.1000 | 21.7 | 4.6868 | 0.46004 |
| Zn 206.200 | 1.5219 | ppb | 0.4082 | 26.8 | 2.5784 | 1.52192 |

**680-106200-b-18-c ms (Samp)** **10/15/2014, 5:38:31 PM** **Rack 2, Tube 39**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 46.9671 | 47.0631 | 47.5794 |
| Al 308.215 | 142314 | 142259 | 142353 |
| As 188.980 | 359.124 | 354.219 | 355.146 |
| B 249.678 | 159.468 | 160.594 | 162.176 |
| Ba 389.178 | 3349.11 | 3352.91 | 3351.58 |
| Be 313.042 | 58.7331 | 58.8328 | 58.8653 |
| Ca 370.602 | 103752 | 103774 | 103534 |
| Cd 226.502 | 53.3417 | 53.8554 | 53.4923 |
| Co 228.615 | 170.531 | 171.382 | 170.907 |
| Cr 267.716 | 385.387 | 385.407 | 385.394 |
| Cu 324.754 | 618.380 | 618.006 | 623.513 |
| Fe 271.441 | 355733 | 356234 | 356047 |
| K 766.491 | 16924.9 | 16947.4 | 16990.7 |
| Mg 279.078 | 37689.1 | 37675.7 | 37679.0 |
| Mn 257.610 | 22384.7 | 22375.2 | 22386.5 |
| Mo 202.032 | 112.757 | 112.072 | 114.618 |
| Na 330.237 | 6316.55 | 5951.99 | 6069.02 |
| Ni 231.604 | 245.139 | 242.411 | 245.221 |
| Pb 220.353 | 2092.02 | 2081.37 | 2078.50 |
| Sb 206.834 | 28.1342 | 30.6982 | 25.0815 |
| Se 196.026 | 88.4167 | 97.3989 | 83.2352 |
| Sn 189.925 | 321.221 | 323.984 | 319.960 |
| Sr 216.596 | 455.741 | 455.514 | 455.138 |
| Ti 334.941 | 1063.58 | 1064.20 | 1066.22 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 31.6039u | 26.6356u | 27.1408u |
| V 292.401 | 527.914 | 526.576 | 528.878 |
| Zn 206.200 | 3824.63 | 3835.07 | 3802.86 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 47.2032 | ppb | 0.3293 | 0.7 | 3676.60 |
| Al 308.215 | 142309 | ppb | 46.9792 | 0.0 | 942748 |
| As 188.980 | 356.163 | ppb | 2.6060 | 0.7 | 187.959 |
| B 249.678 | 160.746 | ppb | 1.3602 | 0.8 | 1719.85 |
| Ba 389.178 | 3351.20 | ppb | 1.9276 | 0.1 | 68142.8 |
| Be 313.042 | 58.8104 | ppb | 0.0689 | 0.1 | 95459.2 |
| Ca 370.602 | 103687 | ppb | 132.5 | 0.1 | 237069 |
| Cd 226.502 | 53.5631 | ppb | 0.2641 | 0.5 | 3289.78 |
| Co 228.615 | 170.940 | ppb | 0.4265 | 0.2 | 1823.95 |
| Cr 267.716 | 385.396 | ppb | 0.0101 | 0.0 | 19408.6 |
| Cu 324.754 | 619.966 | ppb | 3.0773 | 0.5 | 43876.3 |
| Fe 271.441 | 356005 | ppb | 253.243 | 0.1 | 501376 |
| K 766.491 | 16954.4 | ppb | 33.4457 | 0.2 | 725602 |
| Mg 279.078 | 37681.3 | ppb | 6.9778 | 0.0 | 91106.1 |
| Mn 257.610 | 22382.2 | ppb | 6.0748 | 0.0 | 4629774 |
| Mo 202.032 | 113.149 | ppb | 1.3173 | 1.2 | 690.776 |
| Na 330.237 | 6112.52 | ppb | 186.131 | 3.0 | 133.538 |
| Ni 231.604 | 244.257 | ppb | 1.5989 | 0.7 | 698.696 |
| Pb 220.353 | 2083.96 | ppb | 7.1201 | 0.3 | 2952.52 |
| Sb 206.834 | 27.9713 | ppb | 2.8119 | 10.1 | 51.0466 |
| Se 196.026 | 89.6836 | ppb | 7.1664 | 8.0 | 44.2567 |
| Sn 189.925 | 321.722 | ppb | 2.0583 | 0.6 | 206.155 |
| Sr 216.596 | 455.464 | ppb | 0.3044 | 0.1 | 5388.13 |
| Ti 334.941 | 1064.67 | ppb | 1.3825 | 0.1 | 295473 |
| Tl 190.794 | 28.4601 | ppb | 2.7343 | 9.6 | -9.8604 |
| V 292.401 | 527.789 | ppb | 1.1560 | 0.2 | 13780.4 |
| Zn 206.200 | 3820.85 | ppb | 16.4319 | 0.4 | 3433.68 |

**680-106200-b-31-a (Samp)** **10/15/2014, 5:42:48 PM** **Rack 2, Tube 40**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.5024 | 0.0764 | -0.0068 |
| Al 308.215 | 102700 | 102786 | 102784 |
| As 188.980 | 279.982 | 278.527 | 293.606 |
| B 249.678 | 96.7567 | 98.3802 | 97.9678 |
| Ba 389.178 | 4268.02 | 4268.68 | 4264.91 |
| Be 313.042 | 14.1522 | 14.1638 | 14.1253 |
| Ca 370.602 | 73047 | 72839 | 72871 |
| Cd 226.502 | 18.2306 | 17.8482 | 18.3134 |
| Co 228.615 | 253.461 | 253.221 | 253.571 |
| Cr 267.716 | 274.004 | 273.382 | 273.089 |
| Cu 324.754 | 701.895 | 706.610 | 701.932 |
| Fe 271.441 | 253090 | 253274 | 253209 |
| K 766.491 | 10754.8 | 10757.2 | 10734.7 |
| Mg 279.078 | 10383.3 | 10382.6 | 10390.8 |
| Mn 257.610 | 30872.9x | 30945.3x | 31028.6x |
| Mo 202.032 | 35.4695 | 34.8231 | 34.1828 |
| Na 330.237 | 1839.58u | 1758.93u | 1769.96u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 167.788 | 164.894 | 168.361 |
| Pb 220.353 | 2263.18 | 2250.85 | 2249.76 |
| Sb 206.834 | 36.6311 | 40.1227 | 36.3032 |
| Se 196.026 | 8.8741 | 0.4130 | -0.5866 |
| Sn 189.925 | 168.676 | 174.827 | 174.660 |
| Sr 216.596 | 891.300 | 894.101 | 891.674 |
| Ti 334.941 | 1721.65 | 1719.67 | 1714.78 |
| Tl 190.794 | 1.5067u | 3.2018u | 3.0066u |
| V 292.401 | 414.168 | 413.472 | 413.494 |
| Zn 206.200 | 4269.91 | 4285.09 | 4280.77 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1443b | ppb | 0.3129 | 216.8 | 57.9921 |
| Al 308.215 | 102756b | ppb | 48.7296 | 0.0 | 680831 |
| As 188.980 | 284.038b | ppb | 8.3179 | 2.9 | 149.492 |
| B 249.678 | 97.7016b | ppb | 0.8438 | 0.9 | 982.054 |
| Ba 389.178 | 4267.21b | ppb | 2.0140 | 0.0 | 86634.3 |
| Be 313.042 | 14.1471b | ppb | 0.0197 | 0.1 | 22743.1 |
| Ca 370.602 | 72919b | ppb | 111.6 | 0.2 | 167356 |
| Cd 226.502 | 18.1307b | ppb | 0.2482 | 1.4 | 1596.65 |
| Co 228.615 | 253.418b | ppb | 0.1790 | 0.1 | 2691.14 |
| Cr 267.716 | 273.492b | ppb | 0.4677 | 0.2 | 13851.3 |
| Cu 324.754 | 703.479b | ppb | 2.7120 | 0.4 | 49689.7 |
| Fe 271.441 | 253191b | ppb | 93.2100 | 0.0 | 356596 |
| K 766.491 | 10748.9b | ppb | 12.3388 | 0.1 | 460143 |
| Mg 279.078 | 10385.5b | ppb | 4.5365 | 0.0 | 24645.9 |
| Mn 257.610 | 30948.9xb | ppb | 77.9159 | 0.3 | 6400821 |
| Mo 202.032 | 34.8251b | ppb | 0.6434 | 1.8 | 210.573 |
| Na 330.237 | 1789.49b | ppb | 43.7277 | 2.4 | -61.7764 |
| Ni 231.604 | 167.014b | ppb | 1.8584 | 1.1 | 476.688 |
| Pb 220.353 | 2254.59b | ppb | 7.4513 | 0.3 | 3203.81 |
| Sb 206.834 | 37.6856b | ppb | 2.1169 | 5.6 | 60.7890 |
| Se 196.026 | 2.9002b | ppb | 5.1976 | 179.2 | 11.7172 |
| Sn 189.925 | 172.721b | ppb | 3.5039 | 2.0 | 108.188 |
| Sr 216.596 | 892.358b | ppb | 1.5207 | 0.2 | 10044.3 |
| Ti 334.941 | 1718.70b | ppb | 3.5336 | 0.2 | 476896 |
| Tl 190.794 | 2.5717b | ppb | 0.9275 | 36.1 | -18.6184 |
| V 292.401 | 413.711b | ppb | 0.3955 | 0.1 | 10813.8 |
| Zn 206.200 | 4278.59b | ppb | 7.8188 | 0.2 | 3850.84 |

**680-106200-b-31-b ms (Samp)** **10/15/2014, 5:47:04 PM** **Rack 2, Tube 41**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 48.6338 | 48.5217 | 47.6977 |
| Al 308.215 | 109994 | 110414 | 110340 |
| As 188.980 | 381.217 | 379.522 | 378.421 |
| B 249.678 | 214.795 | 216.193 | 217.439 |
| Ba 389.178 | 3027.53 | 3037.50 | 3040.86 |
| Be 313.042 | 57.2627 | 57.3620 | 57.4525 |
| Ca 370.602 | 80619 | 80669 | 80713 |
| Cd 226.502 | 63.8844 | 64.2920 | 64.4073 |
| Co 228.615 | 151.140 | 150.193 | 150.858 |
| Cr 267.716 | 399.320 | 400.696 | 401.024 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 817.148 | 820.740 | 823.159 |
| Fe 271.441 | 285467 | 285819 | 286318 |
| K 766.491 | 15281.1 | 15285.0 | 15289.1 |
| Mg 279.078 | 14604.4 | 14633.6 | 14637.4 |
| Mn 257.610 | 14529.1 | 14638.3 | 14660.0 |
| Mo 202.032 | 108.266 | 109.296 | 107.926 |
| Na 330.237 | 6553.75 | 6827.06 | 6707.49 |
| Ni 231.604 | 244.383 | 247.645 | 245.511 |
| Pb 220.353 | 2832.43 | 2836.65 | 2840.09 |
| Sb 206.834 | 51.0845 | 48.5811 | 55.0021 |
| Se 196.026 | 81.1111 | 90.6173 | 89.0913 |
| Sn 189.925 | 430.107 | 422.361 | 422.235 |
| Sr 216.596 | 904.502 | 906.317 | 908.055 |
| Ti 334.941 | 1706.29 | 1711.50 | 1714.63 |
| Tl 190.794 | 30.7302 | 28.2444 | 25.8044u |
| V 292.401 | 453.216 | 453.212 | 453.303 |
| Zn 206.200 | 4671.03 | 4667.42 | 4684.33 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 48.2844 | ppb | 0.5112 | 1.1 | 3721.06 |
| Al 308.215 | 110249 | ppb | 224.003 | 0.2 | 730475 |
| As 188.980 | 379.720 | ppb | 1.4085 | 0.4 | 200.698 |
| B 249.678 | 216.142 | ppb | 1.3229 | 0.6 | 2704.92 |
| Ba 389.178 | 3035.29 | ppb | 6.9336 | 0.2 | 61671.5 |
| Be 313.042 | 57.3591 | ppb | 0.0949 | 0.2 | 93088.9 |
| Ca 370.602 | 80667 | ppb | 47.31 | 0.1 | 184611 |
| Cd 226.502 | 64.1946 | ppb | 0.2747 | 0.4 | 3436.82 |
| Co 228.615 | 150.730 | ppb | 0.4859 | 0.3 | 1621.57 |
| Cr 267.716 | 400.347 | ppb | 0.9044 | 0.2 | 20086.8 |
| Cu 324.754 | 820.349 | ppb | 3.0248 | 0.4 | 57902.3 |
| Fe 271.441 | 285868 | ppb | 427.936 | 0.1 | 402603 |
| K 766.491 | 15285.1 | ppb | 3.9634 | 0.0 | 654192 |
| Mg 279.078 | 14625.1 | ppb | 18.0599 | 0.1 | 35244.7 |
| Mn 257.610 | 14609.1 | ppb | 70.1459 | 0.5 | 3022006 |
| Mo 202.032 | 108.496 | ppb | 0.7135 | 0.7 | 665.047 |
| Na 330.237 | 6696.10 | ppb | 137.015 | 2.0 | 155.446 |
| Ni 231.604 | 245.846 | ppb | 1.6567 | 0.7 | 697.778 |
| Pb 220.353 | 2836.39 | ppb | 3.8370 | 0.1 | 4028.37 |
| Sb 206.834 | 51.5559 | ppb | 3.2363 | 6.3 | 80.2822 |
| Se 196.026 | 86.9399 | ppb | 5.1052 | 5.9 | 41.1810 |
| Sn 189.925 | 424.901 | ppb | 4.5091 | 1.1 | 273.994 |
| Sr 216.596 | 906.291 | ppb | 1.7769 | 0.2 | 10231.1 |
| Ti 334.941 | 1710.80 | ppb | 4.2165 | 0.2 | 474716 |
| Tl 190.794 | 28.2597 | ppb | 2.4629 | 8.7 | -5.2949 |
| V 292.401 | 453.244 | ppb | 0.0519 | 0.0 | 11832.9 |
| Zn 206.200 | 4674.26 | ppb | 8.9007 | 0.2 | 4206.24 |

**680-106200-b-31-c ms (Samp)** **10/15/2014, 5:51:21 PM** **Rack 2, Tube 42**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 45.7835 | 46.8408 | 47.2611 |
| Al 308.215 | 125968 | 126108 | 126126 |
| As 188.980 | 312.147 | 306.905 | 320.633 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 266.221 | 267.331 | 267.297 |
| Ba 389.178 | 3457.87 | 3464.70 | 3466.08 |
| Be 313.042 | 58.6091 | 58.6278 | 58.6328 |
| Ca 370.602 | 159295 | 158978 | 158033 |
| Cd 226.502 | 56.5612 | 56.8216 | 57.1576 |
| Co 228.615 | 120.130 | 117.607 | 119.355 |
| Cr 267.716 | 326.839 | 326.482 | 325.661 |
| Cu 324.754 | 698.340 | 691.662 | 698.693 |
| Fe 271.441 | 238784 | 238755 | 238865 |
| K 766.491 | 17157.6 | 17175.3 | 17160.2 |
| Mg 279.078 | 28470.1 | 28503.7 | 28501.7 |
| Mn 257.610 | 9067.10 | 9079.67 | 9088.91 |
| Mo 202.032 | 98.6270 | 100.859 | 101.123 |
| Na 330.237 | 6711.03 | 6965.98 | 7006.05 |
| Ni 231.604 | 207.558 | 207.605 | 207.688 |
| Pb 220.353 | 2340.02 | 2347.55 | 2337.25 |
| Sb 206.834 | 46.9833 | 45.0202 | 46.4443 |
| Se 196.026 | 100.353 | 88.0163 | 82.1947 |
| Sn 189.925 | 365.090 | 370.699 | 365.625 |
| Sr 216.596 | 1227.72 | 1229.31 | 1229.05 |
| Ti 334.941 | 1860.19 | 1863.57 | 1860.85 |
| Tl 190.794 | 30.6503 | 25.5314 | 28.4438 |
| V 292.401 | 403.155 | 404.304 | 403.328 |
| Zn 206.200 | 3947.75 | 3922.33 | 3934.47 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 46.6285 | ppb | 0.7614 | 1.6 | 3563.98 |
| Al 308.215 | 126067 | ppb | 86.0659 | 0.1 | 835064 |
| As 188.980 | 313.228 | ppb | 6.9276 | 2.2 | 165.409 |
| B 249.678 | 266.950 | ppb | 0.6308 | 0.2 | 3571.64 |
| Ba 389.178 | 3462.88 | ppb | 4.3983 | 0.1 | 70337.7 |
| Be 313.042 | 58.6232 | ppb | 0.0125 | 0.0 | 95173.1 |
| Ca 370.602 | 158769 | ppb | 656.3 | 0.4 | 365556 |
| Cd 226.502 | 56.8468 | ppb | 0.2990 | 0.5 | 2994.20 |
| Co 228.615 | 119.031 | ppb | 1.2923 | 1.1 | 1291.49 |
| Cr 267.716 | 326.327 | ppb | 0.6043 | 0.2 | 16369.6 |
| Cu 324.754 | 696.232 | ppb | 3.9612 | 0.6 | 49178.1 |
| Fe 271.441 | 238801 | ppb | 56.8080 | 0.0 | 336317 |
| K 766.491 | 17164.4 | ppb | 9.5798 | 0.1 | 734586 |
| Mg 279.078 | 28491.8 | ppb | 18.8289 | 0.1 | 69030.3 |
| Mn 257.610 | 9078.56 | ppb | 10.9434 | 0.1 | 1878302 |
| Mo 202.032 | 100.203 | ppb | 1.3712 | 1.4 | 615.779 |
| Na 330.237 | 6894.35 | ppb | 160.024 | 2.3 | 194.050 |
| Ni 231.604 | 207.617 | ppb | 0.0654 | 0.0 | 588.367 |
| Pb 220.353 | 2341.61 | ppb | 5.3307 | 0.2 | 3324.34 |
| Sb 206.834 | 46.1493 | ppb | 1.0142 | 2.2 | 71.0872 |
| Se 196.026 | 90.1879 | ppb | 9.2717 | 10.3 | 41.0142 |
| Sn 189.925 | 367.138 | ppb | 3.0954 | 0.8 | 236.016 |
| Sr 216.596 | 1228.69 | ppb | 0.8501 | 0.1 | 13731.2 |
| Ti 334.941 | 1861.54 | ppb | 1.7934 | 0.1 | 516561 |
| Tl 190.794 | 28.2085 | ppb | 2.5676 | 9.1 | -2.3461 |
| V 292.401 | 403.595 | ppb | 0.6196 | 0.2 | 10536.0 |
| Zn 206.200 | 3934.85 | ppb | 12.7113 | 0.3 | 3541.15 |

**680-106200-b-13-a (Samp)** **10/15/2014, 5:57:30 PM** **Rack 2, Tube 43**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -1.1649u | -1.3273u | -0.5588u |
| Al 308.215 | 169861 | 169848 | 169913 |
| As 188.980 | 329.985 | 322.788 | 334.661 |
| B 249.678 | 124.562 | 127.042 | 126.400 |
| Ba 389.178 | 1406.73 | 1405.74 | 1404.68 |
| Be 313.042 | 19.3310 | 19.1905 | 19.2994 |
| Ca 370.602 | 342542 | 341694 | 340287 |
| Cd 226.502 | 1.4904 | 1.8705 | 2.0753 |
| Co 228.615 | 54.3155 | 54.3821 | 54.1461 |
| Cr 267.716 | 303.237 | 303.356 | 302.769 |
| Cu 324.754 | 259.590 | 261.017 | 260.353 |
| Fe 271.441 | 338914 | 338820 | 338328 |
| K 766.491 | 18185.8 | 18142.0 | 18120.1 |
| Mg 279.078 | 23302.3 | 23275.0 | 23316.5 |
| Mn 257.610 | 6393.01 | 6373.71 | 6367.19 |
| Mo 202.032 | 14.8893 | 14.4129 | 14.9496 |
| Na 330.237 | 1955.42u | 2134.00u | 2312.60u |
| Ni 231.604 | 87.2317 | 83.0566 | 87.1379 |
| Pb 220.353 | 1215.82 | 1212.74 | 1218.79 |
| Sb 206.834 | 8.7130 | 2.7090 | 3.2774 |
| Se 196.026 | 2.6550 | 9.4540 | 9.4142 |
| Sn 189.925 | 120.145 | 121.170 | 128.365 |
| Sr 216.596 | 759.411 | 759.802 | 760.478 |
| Ti 334.941 | 2172.09 | 2161.41 | 2164.52 |
| Tl 190.794 | -12.2103u | -9.7435u | -14.1213u |
| V 292.401 | 444.472 | 444.720 | 443.369 |
| Zn 206.200 | 2811.44 | 2818.11 | 2826.50 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -1.0170 | ppb | 0.4050 | 39.8 | -135.133 |
| Al 308.215 | 169874 | ppb | 34.1940 | 0.0 | 1125117 |
| As 188.980 | 329.144 | ppb | 5.9812 | 1.8 | 173.810 |
| B 249.678 | 126.002 | ppb | 1.2871 | 1.0 | 1229.78 |
| Ba 389.178 | 1405.72 | ppb | 1.0248 | 0.1 | 28658.7 |
| Be 313.042 | 19.2737 | ppb | 0.0737 | 0.4 | 31185.2 |
| Ca 370.602 | 341508 | ppb | 1139 | 0.3 | 787068 |
| Cd 226.502 | 1.8121 | ppb | 0.2968 | 16.4 | 1292.21 |
| Co 228.615 | 54.2812 | ppb | 0.1216 | 0.2 | 631.367 |
| Cr 267.716 | 303.121 | ppb | 0.3104 | 0.1 | 15251.2 |
| Cu 324.754 | 260.320 | ppb | 0.7143 | 0.3 | 18642.3 |
| Fe 271.441 | 338687 | ppb | 314.904 | 0.1 | 476976 |
| K 766.491 | 18149.3 | ppb | 33.4545 | 0.2 | 776719 |
| Mg 279.078 | 23297.9 | ppb | 21.0670 | 0.1 | 56446.1 |
| Mn 257.610 | 6377.97 | ppb | 13.4268 | 0.2 | 1320092 |
| Mo 202.032 | 14.7506 | ppb | 0.2940 | 2.0 | 82.6590 |
| Na 330.237 | 2134.01 | ppb | 178.592 | 8.4 | -30.0049 |
| Ni 231.604 | 85.8088 | ppb | 2.3839 | 2.8 | 258.733 |
| Pb 220.353 | 1215.78 | ppb | 3.0278 | 0.2 | 1711.85 |
| Sb 206.834 | 4.8998 | ppb | 3.3145 | 67.6 | 20.7727 |
| Se 196.026 | 7.1744 | ppb | 3.9140 | 54.6 | 9.2974 |
| Sn 189.925 | 123.227 | ppb | 4.4794 | 3.6 | 75.6466 |
| Sr 216.596 | 759.897 | ppb | 0.5398 | 0.1 | 8783.20 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 2166.00 | ppb | 5.4929 | 0.3 | 601050 |
| Tl 190.794 | -12.0250 | ppb | 2.1948 | 18.3 | -54.7772 |
| V 292.401 | 444.187 | ppb | 0.7192 | 0.2 | 11642.7 |
| Zn 206.200 | 2818.68 | ppb | 7.5468 | 0.3 | 2530.41 |

**680-106200-b-29-a (Samp)** **10/15/2014, 6:01:47 PM** **Rack 2, Tube 44**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -1.8959u | -1.6418u | -1.7053u |
| Al 308.215 | 111298 | 111293 | 111401 |
| As 188.980 | 475.363 | 485.528 | 485.413 |
| B 249.678 | 15.9887u | 16.8835u | 15.1117u |
| Ba 389.178 | 424.787 | 424.701 | 424.160 |
| Be 313.042 | 6.6340 | 6.6308 | 6.6347 |
| Ca 370.602 | 17923 | 17849 | 17859 |
| Cd 226.502 | -3.9988 | -3.9460 | -4.2678 |
| Co 228.615 | 91.3935 | 90.8587 | 90.8956 |
| Cr 267.716 | 327.954 | 327.546 | 327.710 |
| Cu 324.754 | 244.247 | 245.901 | 245.496 |
| Fe 271.441 | 438712 | 437299 | 437951 |
| K 766.491 | 5288.73 | 5297.99 | 5307.73 |
| Mg 279.078 | 9194.98 | 9206.22 | 9197.88 |
| Mn 257.610 | 3832.28 | 3831.57 | 3823.73 |
| Mo 202.032 | 17.8149 | 18.4334 | 18.1097 |
| Na 330.237 | 336.464u | 433.683u | 259.478u |
| Ni 231.604 | 92.1353 | 91.2570 | 91.2761 |
| Pb 220.353 | 187.108 | 186.001 | 188.643 |
| Sb 206.834 | 2.5459 | 5.1465 | -1.4988 |
| Se 196.026 | 9.6313 | 0.2344 | -0.9159 |
| Sn 189.925 | 23.3296 | 26.2380 | 24.3708 |
| Sr 216.596 | 68.6474 | 67.7154 | 68.2931 |
| Ti 334.941 | 1081.66 | 1080.54 | 1081.51 |
| Tl 190.794 | -11.5844u | -9.7650u | -15.8483u |
| V 292.401 | 625.684 | 625.274 | 624.452 |
| Zn 206.200 | 364.533 | 364.675 | 365.859 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -1.7477 | ppb | 0.1322 | 7.6 | -196.764 |
| Al 308.215 | 111331 | ppb | 60.9718 | 0.1 | 737899 |
| As 188.980 | 482.101 | ppb | 5.8360 | 1.2 | 254.849 |
| B 249.678 | 15.9947 | ppb | 0.8859 | 5.5 | -641.951 |
| Ba 389.178 | 424.549 | ppb | 0.3396 | 0.1 | 8791.30 |
| Be 313.042 | 6.6332 | ppb | 0.0021 | 0.0 | 10509.2 |
| Ca 370.602 | 17877 | ppb | 40.39 | 0.2 | 37530 |
| Cd 226.502 | -4.0709 | ppb | 0.1726 | 4.2 | 1426.55 |
| Co 228.615 | 91.0493 | ppb | 0.2987 | 0.3 | 999.602 |
| Cr 267.716 | 327.736 | ppb | 0.2053 | 0.1 | 16500.3 |
| Cu 324.754 | 245.214 | ppb | 0.8620 | 0.4 | 17621.5 |
| Fe 271.441 | 437987 | ppb | 707.148 | 0.2 | 616820 |
| K 766.491 | 5298.15 | ppb | 9.5020 | 0.2 | 226970 |
| Mg 279.078 | 9199.69 | ppb | 5.8351 | 0.1 | 22261.3 |
| Mn 257.610 | 3829.19 | ppb | 4.7424 | 0.1 | 793202 |
| Mo 202.032 | 18.1193 | ppb | 0.3094 | 1.7 | 99.0935 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 343.208 | ppb | 87.2980 | 25.4 | -75.8288 |
| Ni 231.604 | 91.5561 | ppb | 0.5017 | 0.5 | 282.130 |
| Pb 220.353 | 187.251 | ppb | 1.3268 | 0.7 | 240.005 |
| Sb 206.834 | 2.0646 | ppb | 3.3487 | 162.2 | 20.1713 |
| Se 196.026 | 2.9833 | ppb | 5.7860 | 193.9 | 7.9457 |
| Sn 189.925 | 24.6461 | ppb | 1.4736 | 6.0 | 10.8309 |
| Sr 216.596 | 68.2186 | ppb | 0.4704 | 0.7 | 1220.95 |
| Ti 334.941 | 1081.24 | ppb | 0.6047 | 0.1 | 300031 |
| Tl 190.794 | -12.3992 | ppb | 3.1224 | 25.2 | -67.8871 |
| V 292.401 | 625.137 | ppb | 0.6275 | 0.1 | 16350.5 |
| Zn 206.200 | 365.022 | ppb | 0.7282 | 0.2 | 312.935 |

**680-106200-b-7-a (Samp)** **10/15/2014, 6:06:03 PM** **Rack 2, Tube 45**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -1.9144u | -2.0261u | -2.6320u |
| Al 308.215 | 129153 | 129359 | 129427 |
| As 188.980 | 295.827 | 292.993 | 300.755 |
| B 249.678 | 18.7148u | 18.7739u | 19.5628u |
| Ba 389.178 | 445.954 | 446.961 | 447.373 |
| Be 313.042 | 8.4178 | 8.4200 | 8.3966 |
| Ca 370.602 | 20682 | 20639 | 20570 |
| Cd 226.502 | -4.3223 | -4.1941 | -3.4803 |
| Co 228.615 | 130.580 | 130.160 | 130.059 |
| Cr 267.716 | 499.818 | 500.870 | 500.470 |
| Cu 324.754 | 183.953 | 183.175 | 184.271 |
| Fe 271.441 | 518044 | 520063 | 518382 |
| K 766.491 | 6111.56 | 6134.63 | 6136.52 |
| Mg 279.078 | 7754.80 | 7764.00 | 7735.97 |
| Mn 257.610 | 4549.79 | 4559.51 | 4556.54 |
| Mo 202.032 | 18.1481 | 17.8963 | 18.6688 |
| Na 330.237 | 442.445u | 354.598u | 93.6726u |
| Ni 231.604 | 106.548 | 107.754 | 107.151 |
| Pb 220.353 | 261.184 | 260.139 | 262.404 |
| Sb 206.834 | 5.3209 | 0.1224 | 1.5962 |
| Se 196.026 | 1.8012 | 4.7337 | -1.4094 |
| Sn 189.925 | 71.3842 | 65.8821 | 71.1207 |
| Sr 216.596 | 117.489 | 117.241 | 116.619 |
| Ti 334.941 | 1006.71 | 1008.74 | 1007.44 |
| Tl 190.794 | -15.2414u | -19.5684u | -18.3425u |
| V 292.401 | 710.832 | 710.955 | 712.703 |
| Zn 206.200 | 440.372 | 437.608 | 437.999 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -2.1908 | ppb | 0.3861 | 17.6 | -241.538 |
| Al 308.215 | 129313 | ppb | 142.782 | 0.1 | 857035 |
| As 188.980 | 296.525 | ppb | 3.9279 | 1.3 | 155.016 |
| B 249.678 | 19.0172 | ppb | 0.4734 | 2.5 | -765.885 |
| Ba 389.178 | 446.763 | ppb | 0.7298 | 0.2 | 9280.52 |
| Be 313.042 | 8.4115 | ppb | 0.0129 | 0.2 | 13407.8 |
| Ca 370.602 | 20630 | ppb | 56.72 | 0.3 | 43094 |
| Cd 226.502 | -3.9989 | ppb | 0.4537 | 11.3 | 1718.15 |
| Co 228.615 | 130.267 | ppb | 0.2763 | 0.2 | 1412.02 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 500.386 | ppb | 0.5309 | 0.1 | 25105.4 |
| Cu 324.754 | 183.799 | ppb | 0.5639 | 0.3 | 13346.3 |
| Fe 271.441 | 518829 | ppb | 1081.54 | 0.2 | 730672 |
| K 766.491 | 6127.57 | ppb | 13.8971 | 0.2 | 262451 |
| Mg 279.078 | 7751.59 | ppb | 14.2897 | 0.2 | 18723.6 |
| Mn 257.610 | 4555.28 | ppb | 4.9820 | 0.1 | 943571 |
| Mo 202.032 | 18.2377 | ppb | 0.3940 | 2.2 | 96.2916 |
| Na 330.237 | 296.905 | ppb | 181.403 | 61.1 | -98.7029 |
| Ni 231.604 | 107.151 | ppb | 0.6031 | 0.6 | 331.423 |
| Pb 220.353 | 261.242 | ppb | 1.1335 | 0.4 | 340.691 |
| Sb 206.834 | 2.3465 | ppb | 2.6792 | 114.2 | 24.8012 |
| Se 196.026 | 1.7085 | ppb | 3.0726 | 179.8 | 8.2068 |
| Sn 189.925 | 69.4623 | ppb | 3.1034 | 4.5 | 40.2967 |
| Sr 216.596 | 117.117 | ppb | 0.4480 | 0.4 | 1842.18 |
| Ti 334.941 | 1007.63 | ppb | 1.0283 | 0.1 | 279614 |
| Tl 190.794 | -17.7174 | ppb | 2.2302 | 12.6 | -82.2430 |
| V 292.401 | 711.497 | ppb | 1.0467 | 0.1 | 18609.2 |
| Zn 206.200 | 438.660 | ppb | 1.4957 | 0.3 | 375.835 |

**680-106200-b-40-a (Samp)** **10/15/2014, 6:10:20 PM** **Rack 2, Tube 46**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.7611u | -1.3177u | -0.8862u |
| Al 308.215 | 116711 | 116476 | 116463 |
| As 188.980 | 185.366 | 184.188 | 182.029 |
| B 249.678 | 19.8696u | 18.5171u | 19.3638u |
| Ba 389.178 | 1030.63 | 1029.62 | 1029.45 |
| Be 313.042 | 12.2975 | 12.3100 | 12.3196 |
| Ca 370.602 | 37657 | 37706 | 37659 |
| Cd 226.502 | 0.4929 | -0.1101 | 0.4333 |
| Co 228.615 | 248.584 | 248.148 | 249.646 |
| Cr 267.716 | 280.620 | 280.673 | 280.475 |
| Cu 324.754 | 1083.39 | 1092.75 | 1091.19 |
| Fe 271.441 | 433697 | 435224 | 435210 |
| K 766.491 | 12099.5 | 12077.1 | 12099.8 |
| Mg 279.078 | 15704.7 | 15700.9 | 15703.3 |
| Mn 257.610 | 13657.6 | 13641.5 | 13683.5 |
| Mo 202.032 | 22.2338 | 21.8163 | 21.6357 |
| Na 330.237 | 698.694u | 605.817u | 682.075u |
| Ni 231.604 | 152.517 | 151.979 | 155.183 |
| Pb 220.353 | 670.258 | 671.383 | 662.929 |
| Sb 206.834 | -5.0913 | 3.9825 | 3.6186 |
| Se 196.026 | 3.3684 | 1.8761 | 0.1642 |
| Sn 189.925 | 159.551 | 161.763 | 159.061 |
| Sr 216.596 | 131.639 | 131.307 | 131.920 |
| Ti 334.941 | 586.285 | 586.039 | 585.488 |
| Tl 190.794 | -11.2020u | -14.6308u | -14.8018u |
| V 292.401 | 360.402 | 359.866 | 360.474 |
| Zn 206.200 | 1547.76 | 1551.93 | 1547.11 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.9883 | ppb | 0.2920 | 29.5 | -93.8877 |
| Al 308.215 | 116550 | ppb | 139.648 | 0.1 | 772404 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 183.861 | ppb | 1.6922 | 0.9 | 94.9079 |
| B 249.678 | 19.2502 | ppb | 0.6834 | 3.5 | -586.352 |
| Ba 389.178 | 1029.90 | ppb | 0.6349 | 0.1 | 21074.8 |
| Be 313.042 | 12.3090 | ppb | 0.0111 | 0.1 | 19739.4 |
| Ca 370.602 | 37674 | ppb | 27.43 | 0.1 | 83347 |
| Cd 226.502 | 0.2721 | ppb | 0.3323 | 122.1 | 1578.29 |
| Co 228.615 | 248.793 | ppb | 0.7704 | 0.3 | 2632.79 |
| Cr 267.716 | 280.589 | ppb | 0.1024 | 0.0 | 14204.9 |
| Cu 324.754 | 1089.11 | ppb | 5.0161 | 0.5 | 76811.8 |
| Fe 271.441 | 434710 | ppb | 877.396 | 0.2 | 612221 |
| K 766.491 | 12092.1 | ppb | 13.0144 | 0.1 | 517603 |
| Mg 279.078 | 15703.0 | ppb | 1.9413 | 0.0 | 37878.2 |
| Mn 257.610 | 13660.9 | ppb | 21.2104 | 0.2 | 2826353 |
| Mo 202.032 | 21.8953 | ppb | 0.3068 | 1.4 | 122.853 |
| Na 330.237 | 662.195 | ppb | 49.5275 | 7.5 | -88.3222 |
| Ni 231.604 | 153.226 | ppb | 1.7155 | 1.1 | 452.390 |
| Pb 220.353 | 668.190 | ppb | 4.5905 | 0.7 | 927.879 |
| Sb 206.834 | 0.8366 | ppb | 5.1369 | 614.0 | 17.9554 |
| Se 196.026 | 1.8029 | ppb | 1.6033 | 88.9 | 9.3561 |
| Sn 189.925 | 160.125 | ppb | 1.4394 | 0.9 | 99.9064 |
| Sr 216.596 | 131.622 | ppb | 0.3066 | 0.2 | 1915.44 |
| Ti 334.941 | 585.938 | ppb | 0.4078 | 0.1 | 162606 |
| Tl 190.794 | -13.5449 | ppb | 2.0308 | 15.0 | -64.1412 |
| V 292.401 | 360.247 | ppb | 0.3324 | 0.1 | 9478.17 |
| Zn 206.200 | 1548.94 | ppb | 2.6179 | 0.2 | 1381.26 |

**680-106200-b-27-a (Samp)** **10/15/2014, 6:14:37 PM** **Rack 2, Tube 47**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -1.1900u | -0.6920u | -1.1321u |
| Al 308.215 | 114412 | 114548 | 114655 |
| As 188.980 | 313.074 | 320.212 | 318.450 |
| B 249.678 | 29.1754u | 29.7360u | 28.1664u |
| Ba 389.178 | 1289.71 | 1291.41 | 1293.31 |
| Be 313.042 | 9.6494 | 9.6710 | 9.6739 |
| Ca 370.602 | 97120 | 96964 | 96955 |
| Cd 226.502 | 1.3827 | 1.4500 | 1.4425 |
| Co 228.615 | 96.2869 | 96.7242 | 96.7745 |
| Cr 267.716 | 349.119 | 349.737 | 349.110 |
| Cu 324.754 | 327.614 | 329.042 | 328.052 |
| Fe 271.441 | 373739 | 373853 | 373810 |
| K 766.491 | 8088.96 | 8115.72 | 8138.71 |
| Mg 279.078 | 31523.3 | 31546.3 | 31520.0 |
| Mn 257.610 | 10279.1 | 10223.4 | 10252.5 |
| Mo 202.032 | 20.6037 | 18.8252 | 19.1668 |
| Na 330.237 | 918.026u | 756.653u | 641.305u |
| Ni 231.604 | 107.778 | 108.335 | 109.980 |
| Pb 220.353 | 1032.64 | 1030.60 | 1030.03 |
| Sb 206.834 | 8.5920 | 1.4092 | 8.0285 |
| Se 196.026 | 11.7310 | 7.4725 | 2.0388 |
| Sn 189.925 | 78.5053 | 81.1183 | 81.0384 |
| Sr 216.596 | 237.445 | 240.451 | 238.864 |
| Ti 334.941 | 1208.57 | 1210.95 | 1211.67 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -7.5542u | -10.3491u | -5.9163u |
| V 292.401 | 500.475 | 501.656 | 502.260 |
| Zn 206.200 | 1778.66 | 1783.75 | 1776.82 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -1.0047 | ppb | 0.2723 | 27.1 | -105.043 |
| Al 308.215 | 114538 | ppb | 121.609 | 0.1 | 759005 |
| As 188.980 | 317.245 | ppb | 3.7185 | 1.2 | 166.772 |
| B 249.678 | 29.0259 | ppb | 0.7954 | 2.7 | -310.448 |
| Ba 389.178 | 1291.48 | ppb | 1.7978 | 0.1 | 26369.8 |
| Be 313.042 | 9.6648 | ppb | 0.0134 | 0.1 | 15462.2 |
| Ca 370.602 | 97013 | ppb | 92.92 | 0.1 | 221268 |
| Cd 226.502 | 1.4250 | ppb | 0.0369 | 2.6 | 1403.66 |
| Co 228.615 | 96.5952 | ppb | 0.2682 | 0.3 | 1055.88 |
| Cr 267.716 | 349.322 | ppb | 0.3594 | 0.1 | 17573.4 |
| Cu 324.754 | 328.236 | ppb | 0.7317 | 0.2 | 23419.6 |
| Fe 271.441 | 373800 | ppb | 57.3862 | 0.0 | 526429 |
| K 766.491 | 8114.46 | ppb | 24.9030 | 0.3 | 347447 |
| Mg 279.078 | 31529.9 | ppb | 14.3642 | 0.0 | 76393.2 |
| Mn 257.610 | 10251.7 | ppb | 27.8419 | 0.3 | 2121294 |
| Mo 202.032 | 19.5319 | ppb | 0.9438 | 4.8 | 110.689 |
| Na 330.237 | 771.995 | ppb | 138.997 | 18.0 | -75.6591 |
| Ni 231.604 | 108.698 | ppb | 1.1450 | 1.1 | 324.716 |
| Pb 220.353 | 1031.09 | ppb | 1.3722 | 0.1 | 1448.24 |
| Sb 206.834 | 6.0099 | ppb | 3.9943 | 66.5 | 23.6738 |
| Se 196.026 | 7.0808 | ppb | 4.8580 | 68.6 | 10.2711 |
| Sn 189.925 | 80.2206 | ppb | 1.4861 | 1.9 | 47.3705 |
| Sr 216.596 | 238.920 | ppb | 1.5034 | 0.6 | 3044.10 |
| Ti 334.941 | 1210.40 | ppb | 1.6240 | 0.1 | 335901 |
| Tl 190.794 | -7.9399 | ppb | 2.2414 | 28.2 | -53.0800 |
| V 292.401 | 501.464 | ppb | 0.9081 | 0.2 | 13123.3 |
| Zn 206.200 | 1779.74 | ppb | 3.5921 | 0.2 | 1591.65 |

**680-106200-b-21-a (Samp)** **10/15/2014, 6:18:54 PM** **Rack 2, Tube 48**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -2.7904u | -2.5021u | -2.5884u |
| Al 308.215 | 147842 | 147778 | 147594 |
| As 188.980 | 253.423 | 253.860 | 245.696 |
| B 249.678 | 29.5927u | 27.8959u | 29.4345u |
| Ba 389.178 | 1404.14 | 1401.63 | 1400.69 |
| Be 313.042 | 10.2673 | 10.2340 | 10.2376 |
| Ca 370.602 | 69670 | 69822 | 69962 |
| Cd 226.502 | -1.1269 | -2.0028 | -1.9706 |
| Co 228.615 | 130.543 | 129.991 | 131.002 |
| Cr 267.716 | 327.596 | 327.870 | 327.669 |
| Cu 324.754 | 190.058 | 188.858 | 188.573 |
| Fe 271.441 | 428926 | 427326 | 430400 |
| K 766.491 | 8658.15 | 8646.31 | 8653.35 |
| Mg 279.078 | 14611.4 | 14623.9 | 14601.8 |
| Mn 257.610 | 14688.0 | 14706.5 | 14753.6 |
| Mo 202.032 | 16.5191 | 15.1241 | 15.8090 |
| Na 330.237 | 756.999u | 516.650u | 480.350u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 95.8770 | 96.1752 | 95.2047 |
| Pb 220.353 | 481.575 | 497.767 | 486.978 |
| Sb 206.834 | -3.0725 | 3.5372 | 6.5412 |
| Se 196.026 | -3.2093 | 6.1495 | 4.5563 |
| Sn 189.925 | 41.8774 | 42.5495 | 39.9982 |
| Sr 216.596 | 219.463 | 217.776 | 219.427 |
| Ti 334.941 | 1270.75 | 1270.36 | 1269.91 |
| Tl 190.794 | -12.3333u | -10.6146u | -7.9172u |
| V 292.401 | 594.913 | 593.583 | 594.136 |
| Zn 206.200 | 688.116 | 694.727 | 689.274 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -2.6270 | ppb | 0.1480 | 5.6 | -216.887 |
| Al 308.215 | 147738 | ppb | 128.696 | 0.1 | 978797 |
| As 188.980 | 250.993 | ppb | 4.5923 | 1.8 | 131.219 |
| B 249.678 | 28.9744 | ppb | 0.9373 | 3.2 | -426.723 |
| Ba 389.178 | 1402.15 | ppb | 1.7860 | 0.1 | 28620.7 |
| Be 313.042 | 10.2463 | ppb | 0.0183 | 0.2 | 16405.7 |
| Ca 370.602 | 69818 | ppb | 146.1 | 0.2 | 157980 |
| Cd 226.502 | -1.7001 | ppb | 0.4967 | 29.2 | 1483.06 |
| Co 228.615 | 130.512 | ppb | 0.5062 | 0.4 | 1413.82 |
| Cr 267.716 | 327.712 | ppb | 0.1421 | 0.0 | 16544.6 |
| Cu 324.754 | 189.163 | ppb | 0.7881 | 0.4 | 13686.9 |
| Fe 271.441 | 428884 | ppb | 1537.24 | 0.4 | 604004 |
| K 766.491 | 8652.61 | ppb | 5.9515 | 0.1 | 370468 |
| Mg 279.078 | 14612.4 | ppb | 11.1134 | 0.1 | 35198.7 |
| Mn 257.610 | 14716.0 | ppb | 33.7938 | 0.2 | 3044522 |
| Mo 202.032 | 15.8174 | ppb | 0.6975 | 4.4 | 85.2642 |
| Na 330.237 | 584.666 | ppb | 150.344 | 25.7 | -70.6592 |
| Ni 231.604 | 95.7523 | ppb | 0.4971 | 0.5 | 292.991 |
| Pb 220.353 | 488.774 | ppb | 8.2439 | 1.7 | 671.962 |
| Sb 206.834 | 2.3353 | ppb | 4.9183 | 210.6 | 20.3140 |
| Se 196.026 | 2.4988 | ppb | 5.0072 | 200.4 | 9.7794 |
| Sn 189.925 | 41.4750 | ppb | 1.3224 | 3.2 | 21.8957 |
| Sr 216.596 | 218.889 | ppb | 0.9638 | 0.4 | 2874.85 |
| Ti 334.941 | 1270.34 | ppb | 0.4191 | 0.0 | 352514 |
| Tl 190.794 | -10.2884 | ppb | 2.2260 | 21.6 | -59.7237 |
| V 292.401 | 594.211 | ppb | 0.6680 | 0.1 | 15548.7 |
| Zn 206.200 | 690.706 | ppb | 3.5306 | 0.5 | 607.100 |

**Cont Calib Verif (CCV)** **10/15/2014, 6:23:11 PM** **Rack 2, Tube 49**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 491.037 | 488.460 | 490.262 |
| Al 308.215 | 4829.20 | 4809.38 | 4873.55 |
| As 188.980 | 458.752 | 466.062 | 468.425 |
| B 249.678 | 481.834 | 482.734 | 487.592 |
| Ba 389.178 | 4833.13 | 4805.41 | 4835.72 |
| Be 313.042 | 488.382 | 486.048 | 488.578 |
| Ca 370.602 | 4866 | 4832 | 4863 |
| Cd 226.502 | 486.583 | 484.670 | 486.546 |
| Co 228.615 | 496.045 | 492.135 | 494.812 |
| Cr 267.716 | 4868.51 | 4839.82 | 4867.34 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 5061.73 | 5036.09 | 5000.91 |
| Fe 271.441 | 4907.31 | 4890.72 | 4909.92 |
| K 766.491 | 10131.2 | 10120.4 | 10222.6 |
| Mg 279.078 | 4881.37 | 4859.88 | 4892.68 |
| Mn 257.610 | 4972.60 | 4955.48 | 4970.73 |
| Mo 202.032 | 493.459 | 487.802 | 490.448 |
| Na 330.237 | 7487.62 | 7374.16 | 7584.95 |
| Ni 231.604 | 2473.33 | 2457.87 | 2472.39 |
| Pb 220.353 | 495.982 | 494.803 | 492.327 |
| Sb 206.834 | 927.093 | 922.198 | 927.690 |
| Se 196.026 | 4846.70 | 4843.64 | 4852.99 |
| Sn 189.925 | 4883.56 | 4860.10 | 4872.14 |
| Sr 216.596 | 2417.24 | 2402.25 | 2408.92 |
| Ti 334.941 | 483.243 | 481.424 | 484.659 |
| Tl 190.794 | 4988.79 | 4960.03 | 4975.43 |
| V 292.401 | 4868.15 | 4848.29 | 4877.46 |
| Zn 206.200 | 2421.52 | 2398.97 | 2406.79 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 489.920 | ppb | 1.3225 | 0.3 | 37839.2 | 97.98396 |
| Al 308.215 | 4837.38 | ppb | 32.8616 | 0.7 | 32912.9 | 96.74750 |
| As 188.980 | 464.413 | ppb | 5.0427 | 1.1 | 246.640 | 92.88257 |
| B 249.678 | 484.053 | ppb | 3.0973 | 0.6 | 7356.99 | 96.81064 |
| Ba 389.178 | 4824.75 | ppb | 16.8004 | 0.3 | 97822.0 | 96.49505 |
| Be 313.042 | 487.669 | ppb | 1.4078 | 0.3 | 793769 | 97.53387 |
| Ca 370.602 | 4854 | ppb | 18.82 | 0.4 | 11492 | 97.07903 |
| Cd 226.502 | 485.933 | ppb | 1.0938 | 0.2 | 18216.5 | 97.18656 |
| Co 228.615 | 494.331 | ppb | 1.9989 | 0.4 | 5156.83 | 98.86614 |
| Cr 267.716 | 4858.56 | ppb | 16.2352 | 0.3 | 241096 | 97.17117 |
| Cu 324.754 | 5032.91 | ppb | 30.5330 | 0.6 | 353193 | 100.65821 |
| Fe 271.441 | 4902.65 | ppb | 10.4098 | 0.2 | 7008.52 | 98.05301 |
| K 766.491 | 10158.1 | ppb | 56.1226 | 0.6 | 434870 | 101.58090 |
| Mg 279.078 | 4877.97 | ppb | 16.6588 | 0.3 | 11776.9 | 97.55947 |
| Mn 257.610 | 4966.27 | ppb | 9.3921 | 0.2 | 1027074 | 99.32537 |
| Mo 202.032 | 490.570 | ppb | 2.8304 | 0.6 | 3037.07 | 98.11395 |
| Na 330.237 | 7482.24 | ppb | 105.499 | 1.4 | 318.330 | 99.76320 |
| Ni 231.604 | 2467.86 | ppb | 8.6644 | 0.4 | 6830.91 | 98.71459 |
| Pb 220.353 | 494.371 | ppb | 1.8652 | 0.4 | 708.557 | 98.87417 |
| Sb 206.834 | 925.660 | ppb | 3.0132 | 0.3 | 1266.11 | 92.56600 |
| Se 196.026 | 4847.77 | ppb | 4.7670 | 0.1 | 1870.19 | 96.95547 |
| Sn 189.925 | 4871.93 | ppb | 11.7321 | 0.2 | 3197.85 | 97.43868 |
| Sr 216.596 | 2409.47 | ppb | 7.5064 | 0.3 | 26268.7 | 96.37876 |
| Ti 334.941 | 483.109 | ppb | 1.6214 | 0.3 | 134000 | 96.62175 |
| Tl 190.794 | 4974.75 | ppb | 14.3937 | 0.3 | 4865.75 | 99.49505 |
| V 292.401 | 4864.63 | ppb | 14.9013 | 0.3 | 125799 | 97.29266 |
| Zn 206.200 | 2409.10 | ppb | 11.4492 | 0.5 | 2161.94 | 96.36382 |

**Cont Calib Blank (CCB)** **10/15/2014, 6:27:27 PM** **Rack 2, Tube 50**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1309 | -0.1607u | 0.1184 |
| Al 308.215 | 11.7149 | 12.5947 | 13.5915 |
| As 188.980 | 4.2788 | 4.5971 | 0.7511 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 8.5491 | 7.3273 | 6.7632 |
| Ba 389.178 | -0.0030u | 0.3246 | 0.3057 |
| Be 313.042 | 0.0432 | 0.0495 | 0.0518 |
| Ca 370.602 | 3.691 | 9.307 | 3.065 |
| Cd 226.502 | -0.1242u | 0.0205 | 0.0681 |
| Co 228.615 | -0.2953u | -0.3819u | -0.0847u |
| Cr 267.716 | 0.4147 | 0.6849 | 0.5072 |
| Cu 324.754 | 0.5854 | 0.4772 | 0.4784 |
| Fe 271.441 | 7.6899 | 11.2650 | 12.7566 |
| K 766.491 | -1.6880u | -0.9406u | -1.2678u |
| Mg 279.078 | -0.6196u | 0.1087 | -0.8065u |
| Mn 257.610 | 0.6974 | 0.7881 | 0.7839 |
| Mo 202.032 | 0.1546 | 0.6557 | -0.0049u |
| Na 330.237 | -157.038u | -68.3520u | -191.548u |
| Ni 231.604 | 0.8207 | 1.1084 | 1.3659 |
| Pb 220.353 | 1.2170 | 0.8748 | 1.4909 |
| Sb 206.834 | 7.6033 | 3.6276 | 4.0779 |
| Se 196.026 | 9.7186 | 0.1695 | -2.3333u |
| Sn 189.925 | 2.1161 | 2.0399 | 2.7953 |
| Sr 216.596 | -0.1414u | 0.5645 | 0.9142 |
| Ti 334.941 | 0.2524 | 0.2138 | 0.2034 |
| Tl 190.794 | 2.8665 | 2.4040 | 2.6685 |
| V 292.401 | 0.5495 | 0.4239 | 0.6301 |
| Zn 206.200 | 1.1550 | 0.7274 | 0.5177 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.0295 | ppb | 0.1649 | 558.6 | -8.1811 | 0.02951 |
| Al 308.215 | 12.6337 | ppb | 0.9389 | 7.4 | 478.041 | 12.63369 |
| As 188.980 | 3.2090 | ppb | 2.1345 | 66.5 | -0.6904 | 3.20899 |
| B 249.678 | 7.5465 | ppb | 0.9129 | 12.1 | 149.630 | 7.54653 |
| Ba 389.178 | 0.2091 | ppb | 0.1839 | 88.0 | -46.5372 | 0.20910 |
| Be 313.042 | 0.0482 | ppb | 0.0045 | 9.3 | -238.634 | 0.04816 |
| Ca 370.602 | 5.354 | ppb | 3.437 | 64.2 | 23.50 | 5.35432 |
| Cd 226.502 | -0.0119 | ppb | 0.1001 | 842.6 | 12.7942 | -0.01188 |
| Co 228.615 | -0.2540 | ppb | 0.1528 | 60.2 | 0.5059 | -0.25396 |
| Cr 267.716 | 0.5356 | ppb | 0.1373 | 25.6 | 57.7091 | 0.53558 |
| Cu 324.754 | 0.5137 | ppb | 0.0622 | 12.1 | 285.923 | 0.51366 |
| Fe 271.441 | 10.5705 | ppb | 2.6038 | 24.6 | 21.7247 | 10.57052 |
| K 766.491 | -1.2988 | ppb | 0.3747 | 28.8 | 269.522 | -1.29881 |
| Mg 279.078 | -0.4391 | ppb | 0.4836 | 110.1 | 17.8468 | -0.43915 |
| Mn 257.610 | 0.7565 | ppb | 0.0512 | 6.8 | 197.150 | 0.75647 |
| Mo 202.032 | 0.2685 | ppb | 0.3447 | 128.4 | 7.9360 | 0.26847 |
| Na 330.237 | -138.980 | ppb | 63.5525 | 45.7 | 15.3730 | -138.97954 |
| Ni 231.604 | 1.0983 | ppb | 0.2728 | 24.8 | -1.7335 | 1.09835 |
| Pb 220.353 | 1.1942 | ppb | 0.3087 | 25.8 | 2.1381 | 1.19424 |
| Sb 206.834 | 5.1030 | ppb | 2.1771 | 42.7 | 7.8535 | 5.10296 |
| Se 196.026 | 2.5182 | ppb | 6.3600 | 252.6 | 3.7098 | 2.51825 |
| Sn 189.925 | 2.3171 | ppb | 0.4159 | 17.9 | -3.8494 | 2.31709 |
| Sr 216.596 | 0.4458 | ppb | 0.5377 | 120.6 | 7.2522 | 0.44578 |
| Ti 334.941 | 0.2232 | ppb | 0.0258 | 11.6 | 0.0571 | 0.22317 |
| Tl 190.794 | 2.6464 | ppb | 0.2320 | 8.8 | -3.3752 | 2.64635 |
| V 292.401 | 0.5345 | ppb | 0.1039 | 19.4 | 6.7145 | 0.53450 |
| Zn 206.200 | 0.8000 | ppb | 0.3248 | 40.6 | 1.9266 | 0.80004 |

**680-106200-b-10-a (Samp)** **10/15/2014, 6:31:44 PM** **Rack 2, Tube 51**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.4809u | -0.0053u | -0.3517u |
| Al 308.215 | 131849 | 131795 | 131903 |
| As 188.980 | 363.528 | 360.165 | 362.996 |
| B 249.678 | 31.8748u | 33.2005u | 32.5255u |
| Ba 389.178 | 1183.44 | 1185.28 | 1185.12 |
| Be 313.042 | 8.2299 | 8.2260 | 8.2330 |
| Ca 370.602 | 78263 | 78079 | 78000 |
| Cd 226.502 | 0.1161 | -0.0314 | 0.1034 |
| Co 228.615 | 69.2413 | 68.7900 | 69.5108 |
| Cr 267.716 | 256.917 | 256.279 | 256.562 |
| Cu 324.754 | 404.948 | 404.615 | 404.619 |
| Fe 271.441 | 363681 | 363574 | 363410 |
| K 766.491 | 8910.54 | 8916.61 | 8908.27 |
| Mg 279.078 | 17946.2 | 17902.9 | 17924.0 |
| Mn 257.610 | 6091.42 | 6070.31 | 6077.78 |
| Mo 202.032 | 20.2763 | 19.9188 | 19.5789 |
| Na 330.237 | 961.738u | 964.359u | 1050.17u |
| Ni 231.604 | 114.427 | 114.121 | 113.501 |
| Pb 220.353 | 838.057 | 833.227 | 834.584 |
| Sb 206.834 | 5.7970 | 8.0987 | 6.1555 |
| Se 196.026 | 12.4488 | 13.1783 | 13.9023 |
| Sn 189.925 | 65.3415 | 60.1056 | 65.0953 |
| Sr 216.596 | 247.039 | 246.696 | 245.718 |
| Ti 334.941 | 1423.43 | 1424.43 | 1424.02 |
| Tl 190.794 | -5.4762u | -5.6005u | -7.9846u |
| V 292.401 | 456.228 | 455.959 | 455.065 |
| Zn 206.200 | 1746.77 | 1743.31 | 1751.30 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.2793 | ppb | 0.2459 | 88.0 | -66.8274 |
| Al 308.215 | 131849 | ppb | 53.9610 | 0.0 | 873530 |
| As 188.980 | 362.230 | ppb | 1.8078 | 0.5 | 191.115 |
| B 249.678 | 32.5336 | ppb | 0.6629 | 2.0 | -232.513 |
| Ba 389.178 | 1184.62 | ppb | 1.0170 | 0.1 | 24179.3 |
| Be 313.042 | 8.2296 | ppb | 0.0035 | 0.0 | 13120.6 |
| Ca 370.602 | 78114 | ppb | 135.1 | 0.2 | 177683 |
| Cd 226.502 | 0.0627 | ppb | 0.0817 | 130.4 | 1310.10 |
| Co 228.615 | 69.1807 | ppb | 0.3642 | 0.5 | 773.282 |
| Cr 267.716 | 256.586 | ppb | 0.3199 | 0.1 | 12948.8 |
| Cu 324.754 | 404.727 | ppb | 0.1909 | 0.0 | 28780.2 |
| Fe 271.441 | 363555 | ppb | 136.638 | 0.0 | 511997 |
| K 766.491 | 8911.81 | ppb | 4.3147 | 0.0 | 381556 |
| Mg 279.078 | 17924.4 | ppb | 21.6498 | 0.1 | 43410.1 |
| Mn 257.610 | 6079.83 | ppb | 10.7078 | 0.2 | 1258464 |
| Mo 202.032 | 19.9247 | ppb | 0.3487 | 1.8 | 113.672 |
| Na 330.237 | 992.090 | ppb | 50.3190 | 5.1 | -61.8638 |
| Ni 231.604 | 114.016 | ppb | 0.4719 | 0.4 | 338.611 |
| Pb 220.353 | 835.290 | ppb | 2.4911 | 0.3 | 1168.60 |
| Sb 206.834 | 6.6837 | ppb | 1.2384 | 18.5 | 23.1977 |
| Se 196.026 | 13.1765 | ppb | 0.7268 | 5.5 | 11.7201 |
| Sn 189.925 | 63.5141 | ppb | 2.9545 | 4.7 | 36.3862 |
| Sr 216.596 | 246.484 | ppb | 0.6852 | 0.3 | 3106.92 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 1423.96 | ppb | 0.5021 | 0.0 | 395139 |
| Tl 190.794 | -6.3538 | ppb | 1.4137 | 22.2 | -52.1595 |
| V 292.401 | 455.751 | ppb | 0.6086 | 0.1 | 11941.0 |
| Zn 206.200 | 1747.12 | ppb | 4.0038 | 0.2 | 1562.92 |

**680-106200-b-32-a (Samp)** **10/15/2014, 6:36:00 PM** **Rack 2, Tube 52**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 2.0811 | 1.3655 | 1.1015 |
| Al 308.215 | 112497 | 112589 | 112281 |
| As 188.980 | 302.224 | 306.695 | 302.359 |
| B 249.678 | 68.9169 | 69.8149 | 69.0376 |
| Ba 389.178 | 3143.11 | 3144.44 | 3131.30 |
| Be 313.042 | 13.6127 | 13.5918 | 13.5842 |
| Ca 370.602 | 77909 | 77439 | 77496 |
| Cd 226.502 | 16.2255 | 16.9914 | 16.6340 |
| Co 228.615 | 95.4133 | 95.5005 | 95.6586 |
| Cr 267.716 | 304.044 | 303.146 | 303.029 |
| Cu 324.754 | 771.329 | 768.428 | 771.558 |
| Fe 271.441 | 270140 | 269943 | 269450 |
| K 766.491 | 13013.0 | 12998.8 | 12949.3 |
| Mg 279.078 | 10328.4 | 10339.5 | 10323.4 |
| Mn 257.610 | 9349.80 | 9330.09 | 9316.87 |
| Mo 202.032 | 25.0595 | 25.4480 | 24.7314 |
| Na 330.237 | 1924.68u | 2193.15u | 2151.22u |
| Ni 231.604 | 154.813 | 155.211 | 156.189 |
| Pb 220.353 | 2472.41 | 2471.15 | 2462.53 |
| Sb 206.834 | 52.3175 | 48.6873 | 46.4160 |
| Se 196.026 | 21.0113 | 1.6952 | 7.3204 |
| Sn 189.925 | 265.936 | 268.730 | 269.523 |
| Sr 216.596 | 1086.74 | 1088.99 | 1088.24 |
| Ti 334.941 | 1994.39 | 1995.78 | 1987.18 |
| Tl 190.794 | -10.9687u | -5.6200u | -5.8759u |
| V 292.401 | 390.890 | 389.687 | 389.395 |
| Zn 206.200 | 4570.14 | 4599.82 | 4588.85 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 1.5160 | ppb | 0.5068 | 33.4 | 75.9333 |
| Al 308.215 | 112456 | ppb | 158.191 | 0.1 | 745038 |
| As 188.980 | 303.760 | ppb | 2.5433 | 0.8 | 160.072 |
| B 249.678 | 69.2565 | ppb | 0.4874 | 0.7 | 518.108 |
| Ba 389.178 | 3139.61 | ppb | 7.2326 | 0.2 | 63773.3 |
| Be 313.042 | 13.5962 | ppb | 0.0148 | 0.1 | 21853.5 |
| Ca 370.602 | 77615 | ppb | 256.6 | 0.3 | 177705 |
| Cd 226.502 | 16.6170 | ppb | 0.3832 | 2.3 | 1597.90 |
| Co 228.615 | 95.5241 | ppb | 0.1243 | 0.1 | 1052.83 |
| Cr 267.716 | 303.406 | ppb | 0.5558 | 0.2 | 15247.3 |
| Cu 324.754 | 770.438 | ppb | 1.7447 | 0.2 | 54392.6 |
| Fe 271.441 | 269844 | ppb | 355.645 | 0.1 | 380031 |
| K 766.491 | 12987.0 | ppb | 33.4529 | 0.3 | 555886 |
| Mg 279.078 | 10330.4 | ppb | 8.2771 | 0.1 | 24907.2 |
| Mn 257.610 | 9332.26 | ppb | 16.5710 | 0.2 | 1930718 |
| Mo 202.032 | 25.0796 | ppb | 0.3587 | 1.4 | 149597 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 2089.68 | ppb | 144.428 | 6.9 | -59.1320 |
| Ni 231.604 | 155.404 | ppb | 0.7080 | 0.5 | 446.113 |
| Pb 220.353 | 2468.70 | ppb | 5.3741 | 0.2 | 3503.95 |
| Sb 206.834 | 49.1403 | ppb | 2.9767 | 6.1 | 76.8439 |
| Se 196.026 | 10.0090 | ppb | 9.9348 | 99.3 | 10.4226 |
| Sn 189.925 | 268.063 | ppb | 1.8842 | 0.7 | 170.874 |
| Sr 216.596 | 1087.99 | ppb | 1.1486 | 0.1 | 12201.0 |
| Ti 334.941 | 1992.45 | ppb | 4.6193 | 0.2 | 552859 |
| Tl 190.794 | -7.4882 | ppb | 3.0170 | 40.3 | -40.6682 |
| V 292.401 | 389.991 | ppb | 0.7925 | 0.2 | 10209.1 |
| Zn 206.200 | 4586.27 | ppb | 15.0052 | 0.3 | 4127.73 |

**680-106200-b-22-a (Samp)** **10/15/2014, 6:40:17 PM** **Rack 2, Tube 53**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2462u | -1.1330u | -1.0632u |
| Al 308.215 | 114434 | 114299 | 114360 |
| As 188.980 | 449.077 | 437.749 | 438.496 |
| B 249.678 | 16.1013u | 15.8814u | 15.4230u |
| Ba 389.178 | 172.057 | 172.807 | 172.718 |
| Be 313.042 | 3.6235 | 3.6081 | 3.6012 |
| Ca 370.602 | 13423 | 13385 | 13422 |
| Cd 226.502 | -4.2101 | -4.0713 | -3.9405 |
| Co 228.615 | 43.7455 | 43.7677 | 44.7765 |
| Cr 267.716 | 226.465 | 226.717 | 226.695 |
| Cu 324.754 | 255.199 | 253.687 | 253.293 |
| Fe 271.441 | 345060 | 345188 | 344571 |
| K 766.491 | 6222.35 | 6235.41 | 6236.29 |
| Mg 279.078 | 5668.47 | 5656.82 | 5676.26 |
| Mn 257.610 | 1391.74 | 1389.78 | 1390.20 |
| Mo 202.032 | 15.3477 | 14.6068 | 15.2277 |
| Na 330.237 | 202.690u | 332.334u | 425.143u |
| Ni 231.604 | 82.8099 | 84.6479 | 85.1518 |
| Pb 220.353 | 137.277 | 137.346 | 133.792 |
| Sb 206.834 | 0.7011 | 5.5557 | 5.7145 |
| Se 196.026 | 3.2908 | 3.8240 | 14.0963 |
| Sn 189.925 | 24.0270 | 26.3934 | 26.7073 |
| Sr 216.596 | 64.6033 | 63.3573 | 64.0016 |
| Ti 334.941 | 1040.62 | 1040.80 | 1042.08 |
| Tl 190.794 | -5.9673u | -3.8184u | -6.6121u |
| V 292.401 | 499.539 | 498.533 | 498.343 |
| Zn 206.200 | 317.202 | 314.882 | 308.381 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.8141 | ppb | 0.4931 | 60.6 | -121.375 |
| Al 308.215 | 114364 | ppb | 67.3769 | 0.1 | 757805 |
| As 188.980 | 441.774 | ppb | 6.3352 | 1.4 | 233.738 |
| B 249.678 | 15.8019 | ppb | 0.3461 | 2.2 | -447.696 |
| Ba 389.178 | 172.528 | ppb | 0.4099 | 0.2 | 3628.33 |
| Be 313.042 | 3.6109 | ppb | 0.0114 | 0.3 | 5585.91 |
| Ca 370.602 | 13410 | ppb | 21.54 | 0.2 | 28052 |
| Cd 226.502 | -4.0740 | ppb | 0.1349 | 3.3 | 1090.66 |
| Co 228.615 | 44.0966 | ppb | 0.5890 | 1.3 | 503.711 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 226.626 | ppb | 0.1399 | 0.1 | 11432.1 |
| Cu 324.754 | 254.060 | ppb | 1.0062 | 0.4 | 18204.7 |
| Fe 271.441 | 344940 | ppb | 325.432 | 0.1 | 485779 |
| K 766.491 | 6231.35 | ppb | 7.8091 | 0.1 | 266891 |
| Mg 279.078 | 5667.19 | ppb | 9.7834 | 0.2 | 13723.0 |
| Mn 257.610 | 1390.57 | ppb | 1.0349 | 0.1 | 288622 |
| Mo 202.032 | 15.0607 | ppb | 0.3977 | 2.6 | 84.2997 |
| Na 330.237 | 320.056 | ppb | 111.733 | 34.9 | -53.4571 |
| Ni 231.604 | 84.2032 | ppb | 1.2327 | 1.5 | 254.694 |
| Pb 220.353 | 136.138 | ppb | 2.0323 | 1.5 | 172.262 |
| Sb 206.834 | 3.9904 | ppb | 2.8497 | 71.4 | 18.8606 |
| Se 196.026 | 7.0704 | ppb | 6.0905 | 86.1 | 8.3377 |
| Sn 189.925 | 25.7092 | ppb | 1.4653 | 5.7 | 11.5300 |
| Sr 216.596 | 63.9874 | ppb | 0.6231 | 1.0 | 1072.94 |
| Ti 334.941 | 1041.17 | ppb | 0.7934 | 0.1 | 288896 |
| Tl 190.794 | -5.4659 | ppb | 1.4628 | 26.8 | -51.2325 |
| V 292.401 | 498.805 | ppb | 0.6424 | 0.1 | 13046.8 |
| Zn 206.200 | 313.488 | ppb | 4.5726 | 1.5 | 270.295 |

**680-106200-b-16-a (Samp)** **10/15/2014, 6:44:33 PM** **Rack 2, Tube 54**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.5170 | 0.8536 | 1.3169 |
| Al 308.215 | 125867 | 126119 | 125677 |
| As 188.980 | 367.768 | 376.040 | 369.461 |
| B 249.678 | 57.4260 | 57.5374 | 57.4950 |
| Ba 389.178 | 3939.74 | 3943.65 | 3927.86 |
| Be 313.042 | 14.6153 | 14.6334 | 14.5941 |
| Ca 370.602 | 108693 | 108184 | 107849 |
| Cd 226.502 | 10.8456 | 11.2774 | 11.9216 |
| Co 228.615 | 141.703 | 142.139 | 140.981 |
| Cr 267.716 | 428.496 | 428.567 | 426.956 |
| Cu 324.754 | 739.607 | 729.715 | 727.661 |
| Fe 271.441 | 381181 | 381352 | 381009 |
| K 766.491 | 12077.1 | 12101.9 | 12113.7 |
| Mg 279.078 | 13171.2 | 13161.4 | 13139.8 |
| Mn 257.610 | 22611.6 | 22678.9 | 21819.1 |
| Mo 202.032 | 23.8213 | 23.7031 | 23.7116 |
| Na 330.237 | 2018.68u | 1765.43u | 1833.69u |
| Ni 231.604 | 229.757 | 227.985 | 230.154 |
| Pb 220.353 | 2247.87 | 2242.70 | 2226.90 |
| Sb 206.834 | 16.1793 | 18.2241 | 13.3708 |
| Se 196.026 | 10.0269 | 5.7779 | 2.7009 |
| Sn 189.925 | 189.026 | 188.236 | 190.088 |
| Sr 216.596 | 670.107 | 670.836 | 669.799 |
| Ti 334.941 | 1665.68 | 1666.40 | 1661.92 |
| Tl 190.794 | -12.1577u | -8.4649u | -8.2695u |
| V 292.401 | 403.011 | 402.059 | 403.319 |
| Zn 206.200 | 4678.52 | 4684.88 | 4662.03 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.8958 | ppb | 0.4016 | 44.8 | 84.6530 |
| Al 308.215 | 125887 | ppb | 221.782 | 0.2 | 834107 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 371.090 | ppb | 4.3699 | 1.2 | 195.720 |
| B 249.678 | 57.4861 | ppb | 0.0563 | 0.1 | 106.319 |
| Ba 389.178 | 3937.08 | ppb | 8.2207 | 0.2 | 80006.1 |
| Be 313.042 | 14.6143 | ppb | 0.0197 | 0.1 | 23515.2 |
| Ca 370.602 | 108242 | ppb | 425.2 | 0.4 | 247571 |
| Cd 226.502 | 11.3482 | ppb | 0.5415 | 4.8 | 1798.17 |
| Co 228.615 | 141.608 | ppb | 0.5848 | 0.4 | 1533.83 |
| Cr 267.716 | 428.007 | ppb | 0.9104 | 0.2 | 21536.5 |
| Cu 324.754 | 732.328 | ppb | 6.3870 | 0.9 | 51765.4 |
| Fe 271.441 | 381181 | ppb | 171.469 | 0.0 | 536826 |
| K 766.491 | 12097.6 | ppb | 18.6939 | 0.2 | 517837 |
| Mg 279.078 | 13157.5 | ppb | 16.0335 | 0.1 | 31530.7 |
| Mn 257.610 | 22369.9 | ppb | 478.157 | 2.1 | 4627130 |
| Mo 202.032 | 23.7453 | ppb | 0.0659 | 0.3 | 136.582 |
| Na 330.237 | 1872.60 | ppb | 131.029 | 7.0 | -97.2766 |
| Ni 231.604 | 229.298 | ppb | 1.1550 | 0.5 | 659.206 |
| Pb 220.353 | 2239.16 | ppb | 10.9244 | 0.5 | 3172.41 |
| Sb 206.834 | 15.9247 | ppb | 2.4367 | 15.3 | 37.7338 |
| Se 196.026 | 6.1686 | ppb | 3.6786 | 59.6 | 12.2909 |
| Sn 189.925 | 189.117 | ppb | 0.9294 | 0.5 | 118.968 |
| Sr 216.596 | 670.248 | ppb | 0.5322 | 0.1 | 7764.52 |
| Ti 334.941 | 1664.67 | ppb | 2.4078 | 0.1 | 461923 |
| Tl 190.794 | -9.6307 | ppb | 2.1907 | 22.7 | -50.0573 |
| V 292.401 | 402.797 | ppb | 0.6569 | 0.2 | 10570.8 |
| Zn 206.200 | 4675.14 | ppb | 11.7941 | 0.3 | 4203.34 |

**680-106200-b-19-a (Samp)** **10/15/2014, 6:48:50 PM** **Rack 2, Tube 55**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -2.9582u | -3.0565u | -3.5569u |
| Al 308.215 | 130074 | 130008 | 129987 |
| As 188.980 | 284.344 | 269.648 | 279.284 |
| B 249.678 | 30.9901u | 31.2284u | 30.6609u |
| Ba 389.178 | 2882.88 | 2882.29 | 2881.96 |
| Be 313.042 | 14.7831 | 14.8078 | 14.7764 |
| Ca 370.602 | 51397 | 51559 | 51438 |
| Cd 226.502 | 7.6315 | 7.8664 | 7.7230 |
| Co 228.615 | 135.970 | 134.433 | 135.407 |
| Cr 267.716 | 361.376 | 361.963 | 361.033 |
| Cu 324.754 | 464.308 | 465.610 | 467.625 |
| Fe 271.441 | 394702 | 395637 | 394764 |
| K 766.491 | 10818.4 | 10828.4 | 10842.0 |
| Mg 279.078 | 13455.4 | 13442.5 | 13458.8 |
| Mn 257.610 | 23590.2 | 23016.6 | 22936.2 |
| Mo 202.032 | 27.2598 | 26.9804 | 26.3130 |
| Na 330.237 | 1142.17u | 1110.55u | 914.874u |
| Ni 231.604 | 171.869 | 170.432 | 170.749 |
| Pb 220.353 | 1762.21 | 1760.23 | 1751.10 |
| Sb 206.834 | 6.4816 | 10.7752 | 4.0215 |
| Se 196.026 | 3.7496 | 10.0728 | 5.7203 |
| Sn 189.925 | 179.912 | 173.243 | 174.274 |
| Sr 216.596 | 321.677 | 322.757 | 321.638 |
| Ti 334.941 | 1029.67 | 1030.00 | 1029.16 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -1.6811u | -9.0462u | -3.3371u |
| V 292.401 | 459.257 | 459.563 | 457.706 |
| Zn 206.200 | 3560.62 | 3581.20 | 3558.54 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -3.1905 | ppb | 0.3211 | 10.1 | -218.782 |
| Al 308.215 | 130023 | ppb | 45.2897 | 0.0 | 861504 |
| As 188.980 | 277.759 | ppb | 7.4660 | 2.7 | 145.609 |
| B 249.678 | 30.9598 | ppb | 0.2850 | 0.9 | -324.471 |
| Ba 389.178 | 2882.38 | ppb | 0.4678 | 0.0 | 58622.7 |
| Be 313.042 | 14.7891 | ppb | 0.0165 | 0.1 | 23784.8 |
| Ca 370.602 | 51465 | ppb | 84.44 | 0.2 | 115973 |
| Cd 226.502 | 7.7403 | ppb | 0.1184 | 1.5 | 1713.47 |
| Co 228.615 | 135.270 | ppb | 0.7778 | 0.6 | 1456.28 |
| Cr 267.716 | 361.457 | ppb | 0.4707 | 0.1 | 18242.2 |
| Cu 324.754 | 465.848 | ppb | 1.6708 | 0.4 | 33080.6 |
| Fe 271.441 | 395034 | ppb | 522.816 | 0.1 | 556335 |
| K 766.491 | 10829.6 | ppb | 11.8883 | 0.1 | 463596 |
| Mg 279.078 | 13452.3 | ppb | 8.5823 | 0.1 | 32230.8 |
| Mn 257.610 | 23181.0 | ppb | 356.626 | 1.5 | 4794902 |
| Mo 202.032 | 26.8511 | ppb | 0.4865 | 1.8 | 155.145 |
| Na 330.237 | 1055.86 | ppb | 123.120 | 11.7 | -110.906 |
| Ni 231.604 | 171.017 | ppb | 0.7549 | 0.4 | 498.848 |
| Pb 220.353 | 1757.84 | ppb | 5.9250 | 0.3 | 2485.57 |
| Sb 206.834 | 7.0928 | ppb | 3.4181 | 48.2 | 25.7669 |
| Se 196.026 | 6.5142 | ppb | 3.2355 | 49.7 | 12.6847 |
| Sn 189.925 | 175.810 | ppb | 3.5900 | 2.0 | 110.219 |
| Sr 216.596 | 322.024 | ppb | 0.6352 | 0.2 | 3956.85 |
| Ti 334.941 | 1029.61 | ppb | 0.4214 | 0.0 | 285710 |
| Tl 190.794 | -4.6881 | ppb | 3.8639 | 82.4 | -46.5020 |
| V 292.401 | 458.842 | ppb | 0.9956 | 0.2 | 12021.3 |
| Zn 206.200 | 3566.79 | ppb | 12.5280 | 0.4 | 3203.04 |

**680-106200-b-30-a (Samp)** **10/15/2014, 6:53:06 PM** **Rack 2, Tube 56**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -2.6342u | -2.2166u | -2.8896u |
| Al 308.215 | 158249 | 158224 | 158350 |
| As 188.980 | 271.458 | 275.270 | 276.289 |
| B 249.678 | 13.7815u | 13.8137u | 15.4737u |
| Ba 389.178 | 1309.36 | 1310.13 | 1309.94 |
| Be 313.042 | 15.4712 | 15.5091 | 15.4740 |
| Ca 370.602 | 67147 | 67132 | 66743 |
| Cd 226.502 | -2.9184 | -2.8713 | -2.2461 |
| Co 228.615 | 140.055 | 138.866 | 138.892 |
| Cr 267.716 | 546.468 | 546.365 | 545.105 |
| Cu 324.754 | 170.069 | 172.048 | 169.651 |
| Fe 271.441 | 575728 | 575687 | 576209 |
| K 766.491 | 5919.74 | 5921.25 | 5925.60 |
| Mg 279.078 | 17268.9 | 17235.3 | 17223.3 |
| Mn 257.610 | 11165.4 | 11138.0 | 11145.5 |
| Mo 202.032 | 12.8585 | 11.5925 | 12.4811 |
| Na 330.237 | 341.601u | 623.466u | 455.206u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 99.9196 | 100.531 | 99.8233 |
| Pb 220.353 | 409.312 | 417.273 | 412.705 |
| Sb 206.834 | 0.9747 | -3.6141 | -3.1150 |
| Se 196.026 | 8.3330 | 4.3687 | 5.8349 |
| Sn 189.925 | 32.4064 | 35.7201 | 34.8005 |
| Sr 216.596 | 155.351 | 154.641 | 154.881 |
| Ti 334.941 | 792.803 | 794.266 | 793.061 |
| Tl 190.794 | -19.4955u | -18.4296u | -16.8780u |
| V 292.401 | 892.363 | 892.928 | 892.370 |
| Zn 206.200 | 873.965 | 874.759 | 874.890 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -2.5802 | ppb | 0.3398 | 13.2 | -250.440 |
| Al 308.215 | 158275 | ppb | 66.4804 | 0.0 | 1048796 |
| As 188.980 | 274.339 | ppb | 2.5469 | 0.9 | 143.062 |
| B 249.678 | 14.3563 | ppb | 0.9678 | 6.7 | -955.426 |
| Ba 389.178 | 1309.81 | ppb | 0.4012 | 0.0 | 26825.0 |
| Be 313.042 | 15.4848 | ppb | 0.0211 | 0.1 | 24944.8 |
| Ca 370.602 | 67007 | ppb | 229.1 | 0.3 | 149809 |
| Cd 226.502 | -2.6786 | ppb | 0.3753 | 14.0 | 1970.36 |
| Co 228.615 | 139.271 | ppb | 0.6791 | 0.5 | 1505.47 |
| Cr 267.716 | 545.979 | ppb | 0.7590 | 0.1 | 27420.1 |
| Cu 324.754 | 170.589 | ppb | 1.2808 | 0.8 | 12440.5 |
| Fe 271.441 | 575875 | ppb | 290.687 | 0.1 | 811009 |
| K 766.491 | 5922.20 | ppb | 3.0417 | 0.1 | 253666 |
| Mg 279.078 | 17242.5 | ppb | 23.6317 | 0.1 | 41650.5 |
| Mn 257.610 | 11149.6 | ppb | 14.1706 | 0.1 | 2307462 |
| Mo 202.032 | 12.3107 | ppb | 0.6500 | 5.3 | 57.0134 |
| Na 330.237 | 473.424 | ppb | 141.813 | 30.0 | -114.041 |
| Ni 231.604 | 100.091 | ppb | 0.3840 | 0.4 | 316.188 |
| Pb 220.353 | 413.097 | ppb | 3.9951 | 1.0 | 554.794 |
| Sb 206.834 | -1.9181 | ppb | 2.5177 | 131.3 | 21.4655 |
| Se 196.026 | 6.1789 | ppb | 2.0044 | 32.4 | 11.6246 |
| Sn 189.925 | 34.3090 | ppb | 1.7106 | 5.0 | 17.1839 |
| Sr 216.596 | 154.958 | ppb | 0.3613 | 0.2 | 2331.92 |
| Ti 334.941 | 793.377 | ppb | 0.7808 | 0.1 | 220187 |
| Tl 190.794 | -18.2677 | ppb | 1.3162 | 7.2 | -86.2912 |
| V 292.401 | 892.554 | ppb | 0.3241 | 0.0 | 23317.8 |
| Zn 206.200 | 874.538 | ppb | 0.5006 | 0.1 | 766.786 |

**CRI (Samp)** **10/15/2014, 6:57:23 PM** **Rack 2, Tube 57**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 10.6337 | 11.2039 | 10.5266 |
| Al 308.215 | 228.804 | 229.509 | 230.628 |
| As 188.980 | 28.9493 | 26.2916 | 23.0885 |
| B 249.678 | 102.395 | 103.204 | 101.959 |
| Ba 389.178 | 10.6057 | 9.5767 | 10.8280 |
| Be 313.042 | 4.1638 | 4.1731 | 4.1321 |
| Ca 370.602 | 528.4 | 538.3 | 526.7 |
| Cd 226.502 | 5.2548 | 5.0585 | 5.2206 |
| Co 228.615 | 10.2640 | 9.9137 | 10.5578 |
| Cr 267.716 | 10.2271 | 10.4872 | 10.3409 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 21.9370 | 22.1381 | 21.7848 |
| Fe 271.441 | 111.301 | 99.8163 | 121.555 |
| K 766.491 | 1082.15 | 1082.83 | 1071.61 |
| Mg 279.078 | 518.601 | 521.257 | 516.693 |
| Mn 257.610 | 12.5198 | 12.5559 | 12.7751 |
| Mo 202.032 | 10.0381 | 10.2362 | 9.7838 |
| Na 330.237 | 884.355 | 933.005 | 921.825 |
| Ni 231.604 | 40.7199 | 42.6172 | 41.3699 |
| Pb 220.353 | 11.0460 | 12.3205 | 13.1196 |
| Sb 206.834 | 19.4630 | 22.7597 | 24.7900 |
| Se 196.026 | 15.9896 | 27.7961 | 28.1782 |
| Sn 189.925 | 54.0013 | 57.1086 | 56.2722 |
| Sr 216.596 | 10.2624 | 10.4208 | 10.0501 |
| Ti 334.941 | 10.7743 | 10.6626 | 10.6584 |
| Tl 190.794 | 26.5001 | 28.0430 | 24.5468 |
| V 292.401 | 10.3929 | 10.3810 | 10.2583 |
| Zn 206.200 | 20.8404 | 19.1561 | 21.1605 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 10.7881 | ppb | 0.3641 | 3.4 | 823.643 |
| Al 308.215 | 229.647 | ppb | 0.9195 | 0.4 | 1915.69 |
| As 188.980 | 26.1098 | ppb | 2.9346 | 11.2 | 11.5946 |
| B 249.678 | 102.519 | ppb | 0.6320 | 0.6 | 1585.72 |
| Ba 389.178 | 10.3368 | ppb | 0.6676 | 6.5 | 159.637 |
| Be 313.042 | 4.1563 | ppb | 0.0215 | 0.5 | 6448.60 |
| Ca 370.602 | 531.2 | ppb | 6.245 | 1.2 | 1242 |
| Cd 226.502 | 5.1780 | ppb | 0.1049 | 2.0 | 207.385 |
| Co 228.615 | 10.2452 | ppb | 0.3225 | 3.1 | 109.823 |
| Cr 267.716 | 10.3517 | ppb | 0.1304 | 1.3 | 544.796 |
| Cu 324.754 | 21.9533 | ppb | 0.1772 | 0.8 | 1789.91 |
| Fe 271.441 | 110.891 | ppb | 10.8752 | 9.8 | 164.197 |
| K 766.491 | 1078.86 | ppb | 6.2935 | 0.6 | 46476.9 |
| Mg 279.078 | 518.850 | ppb | 2.2922 | 0.4 | 1279.17 |
| Mn 257.610 | 12.6169 | ppb | 0.1381 | 1.1 | 2653.88 |
| Mo 202.032 | 10.0194 | ppb | 0.2268 | 2.3 | 68.2640 |
| Na 330.237 | 913.061 | ppb | 25.4814 | 2.8 | 65.1528 |
| Ni 231.604 | 41.5690 | ppb | 0.9642 | 2.3 | 110.362 |
| Pb 220.353 | 12.1620 | ppb | 1.0458 | 8.6 | 17.7583 |
| Sb 206.834 | 22.3376 | ppb | 2.6885 | 12.0 | 30.5322 |
| Se 196.026 | 23.9880 | ppb | 6.9294 | 28.9 | 11.9790 |
| Sn 189.925 | 55.7941 | ppb | 1.6079 | 2.9 | 31.3112 |
| Sr 216.596 | 10.2444 | ppb | 0.1860 | 1.8 | 113.486 |
| Ti 334.941 | 10.6984 | ppb | 0.0657 | 0.6 | 2907.56 |
| Tl 190.794 | 26.3633 | ppb | 1.7521 | 6.6 | 19.8148 |
| V 292.401 | 10.3441 | ppb | 0.0745 | 0.7 | 259.192 |
| Zn 206.200 | 20.3856 | ppb | 1.0768 | 5.3 | 19.5673 |

**mb 680-353262/1-a (Samp)** **10/15/2014, 7:01:40 PM** **Rack 2, Tube 58**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0929 | 0.2257 | 0.1680 |
| Al 308.215 | 13.7687 | 12.8810 | 12.7680 |
| As 188.980 | 1.3930 | -3.9839u | -1.3873u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 2.8973 | 1.8897 | 2.1491 |
| Ba 389.178 | -0.3148u | -0.4665u | 0.4699 |
| Be 313.042 | 0.0190 | 0.0202 | 0.0174 |
| Ca 370.602 | 16.95 | 11.83 | 18.28 |
| Cd 226.502 | 0.0207 | 0.1029 | -0.0965u |
| Co 228.615 | -0.0070u | 0.4065 | 0.3175 |
| Cr 267.716 | 0.6469 | 0.4351 | 0.5319 |
| Cu 324.754 | 0.3085 | -0.1044u | 0.1099 |
| Fe 271.441 | 22.9631 | 24.8205 | 20.5785 |
| K 766.491 | 7.4386 | 7.0876 | 7.5522 |
| Mg 279.078 | 2.6402 | 3.7226 | 1.8952 |
| Mn 257.610 | 0.5626 | 0.4766 | 0.4442 |
| Mo 202.032 | -0.3437u | -0.3317u | 0.0863 |
| Na 330.237 | -15.2435u | -23.8368u | -0.0743u |
| Ni 231.604 | 1.5598 | 1.1465 | 0.8678 |
| Pb 220.353 | 2.0331 | 3.0117 | -0.3979u |
| Sb 206.834 | 2.8456 | 1.8443 | 1.5353 |
| Se 196.026 | -5.4661u | 8.1271 | -0.1752u |
| Sn 189.925 | 7.9705 | 6.4058 | 7.7183 |
| Sr 216.596 | -0.1045u | -0.1303u | 0.1698 |
| Ti 334.941 | 0.2852 | 0.2394 | 0.2880 |
| Tl 190.794 | -1.0366u | -1.0599u | 2.2988 |
| V 292.401 | 0.2679 | 0.1489 | -0.1196u |
| Zn 206.200 | 2.3098 | 3.5451 | 3.5296 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.1622 | ppb | 0.0666 | 41.1 | 2.0839 |
| Al 308.215 | 13.1392 | ppb | 0.5480 | 4.2 | 481.341 |
| As 188.980 | -1.3261 | ppb | 2.6890 | 202.8 | -3.1233 |
| B 249.678 | 2.3120 | ppb | 0.5232 | 22.6 | 70.4093 |
| Ba 389.178 | -0.1038 | ppb | 0.5026 | 484.3 | -52.8746 |
| Be 313.042 | 0.0188 | ppb | 0.0014 | 7.4 | -286.336 |
| Ca 370.602 | 15.68 | ppb | 3.406 | 21.7 | 47.28 |
| Cd 226.502 | 0.0090 | ppb | 0.1002 | 1111.3 | 13.6194 |
| Co 228.615 | 0.2390 | ppb | 0.2176 | 91.1 | 5.6499 |
| Cr 267.716 | 0.5380 | ppb | 0.1060 | 19.7 | 57.8388 |
| Cu 324.754 | 0.1047 | ppb | 0.2065 | 197.3 | 257.232 |
| Fe 271.441 | 22.7874 | ppb | 2.1265 | 9.3 | 38.9337 |
| K 766.491 | 7.3595 | ppb | 0.2422 | 3.3 | 639.908 |
| Mg 279.078 | 2.7526 | ppb | 0.9189 | 33.4 | 25.6058 |
| Mn 257.610 | 0.4945 | ppb | 0.0612 | 12.4 | 143.034 |
| Mo 202.032 | -0.1963 | ppb | 0.2449 | 124.7 | 5.0595 |
| Na 330.237 | -13.0515 | ppb | 12.0319 | 92.2 | 21.3482 |
| Ni 231.604 | 1.1914 | ppb | 0.3481 | 29.2 | -1.4751 |
| Pb 220.353 | 1.5490 | ppb | 1.7556 | 113.3 | 2.6436 |
| Sb 206.834 | 2.0751 | ppb | 0.6850 | 33.0 | 3.8710 |
| Se 196.026 | 0.8286 | ppb | 6.8520 | 826.9 | 3.0593 |
| Sn 189.925 | 7.3649 | ppb | 0.8401 | 11.4 | -0.5305 |
| Sr 216.596 | -0.0217 | ppb | 0.1663 | 767.5 | 2.1648 |
| Ti 334.941 | 0.2709 | ppb | 0.0273 | 10.1 | 13.2928 |
| Tl 190.794 | 0.0674 | ppb | 1.9325 | 2866.2 | -5.8970 |
| V 292.401 | 0.0991 | ppb | 0.1985 | 200.3 | -4.4994 |
| Zn 206.200 | 3.1282 | ppb | 0.7088 | 22.7 | 4.0266 |

**lcs 680-353262/2-a (Samp)** **10/15/2014, 7:05:57 PM** **Rack 2, Tube 59**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 48.4231 | 48.7521 | 49.1828 |
| Al 308.215 | 4677.14 | 4689.89 | 4704.92 |
| As 188.980 | 100.715 | 103.958 | 107.727 |
| B 249.678 | 184.358 | 185.845 | 187.625 |
| Ba 389.178 | 94.0638 | 94.7535 | 93.7273 |
| Be 313.042 | 48.6698 | 48.7885 | 48.9754 |
| Ca 370.602 | 4794 | 4832 | 4867 |
| Cd 226.502 | 47.7705 | 48.4973 | 47.8491 |
| Co 228.615 | 48.1402 | 49.0129 | 49.5872 |
| Cr 267.716 | 96.8158 | 97.1879 | 97.8406 |
| Cu 324.754 | 100.624 | 101.117 | 101.930 |
| Fe 271.441 | 4791.15 | 4804.56 | 4826.78 |
| K 766.491 | 4923.05 | 4926.23 | 4951.15 |
| Mg 279.078 | 4683.04 | 4694.32 | 4715.17 |
| Mn 257.610 | 501.958 | 504.022 | 505.569 |
| Mo 202.032 | 96.1202 | 95.5007 | 96.2055 |
| Na 330.237 | 4546.15 | 4458.25 | 4534.91 |
| Ni 231.604 | 97.5771 | 97.0290 | 95.9932 |
| Pb 220.353 | 482.593 | 484.688 | 483.631 |
| Sb 206.834 | 46.8712 | 51.2269 | 46.5380 |
| Se 196.026 | 91.0367 | 99.3241 | 92.5507 |
| Sn 189.925 | 195.525 | 199.224 | 201.590 |
| Sr 216.596 | 93.0394 | 93.2327 | 93.5656 |
| Ti 334.941 | 97.6346 | 97.9927 | 98.2175 |
| Tl 190.794 | 40.0711 | 37.8029 | 36.1330 |
| V 292.401 | 96.5106 | 96.8790 | 97.4283 |
| Zn 206.200 | 93.8055 | 95.0085 | 95.3930 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 48.7860 | ppb | 0.3809 | 0.8 | 3761.58 |
| Al 308.215 | 4690.65 | ppb | 13.9044 | 0.3 | 31456.4 |
| As 188.980 | 104.134 | ppb | 3.5094 | 3.4 | 53.4462 |
| B 249.678 | 185.943 | ppb | 1.6355 | 0.9 | 2837.71 |
| Ba 389.178 | 94.1815 | ppb | 0.5231 | 0.6 | 1868.29 |
| Be 313.042 | 48.8112 | ppb | 0.1541 | 0.3 | 79139.3 |
| Ca 370.602 | 4831 | ppb | 36.61 | 0.8 | 11177 |
| Cd 226.502 | 48.0390 | ppb | 0.3988 | 0.8 | 1828.13 |
| Co 228.615 | 48.9134 | ppb | 0.7286 | 1.5 | 512.505 |
| Cr 267.716 | 97.2814 | ppb | 0.5188 | 0.5 | 4861.66 |
| Cu 324.754 | 101.223 | ppb | 0.6592 | 0.7 | 7353.67 |
| Fe 271.441 | 4807.49 | ppb | 17.9976 | 0.4 | 6783.15 |
| K 766.491 | 4933.47 | ppb | 15.3879 | 0.3 | 211370 |
| Mg 279.078 | 4697.51 | ppb | 16.3009 | 0.3 | 11420.8 |
| Mn 257.610 | 503.850 | ppb | 1.8119 | 0.4 | 104281 |
| Mo 202.032 | 95.9421 | ppb | 0.3847 | 0.4 | 599.699 |
| Na 330.237 | 4513.11 | ppb | 47.8340 | 1.1 | 234.141 |
| Ni 231.604 | 96.8664 | ppb | 0.8044 | 0.8 | 263.820 |
| Pb 220.353 | 483.637 | ppb | 1.0473 | 0.2 | 689.715 |
| Sb 206.834 | 48.2120 | ppb | 2.6163 | 5.4 | 64.3598 |
| Se 196.026 | 94.3039 | ppb | 4.4131 | 4.7 | 39.1803 |
| Sn 189.925 | 198.779 | ppb | 3.0569 | 1.5 | 125.323 |
| Sr 216.596 | 93.2792 | ppb | 0.2662 | 0.3 | 1024.88 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 97.9483 | ppb | 0.2940 | 0.3 | 27125.2 |
| Tl 190.794 | 38.0023 | ppb | 1.9766 | 5.2 | 30.8188 |
| V 292.401 | 96.9393 | ppb | 0.4618 | 0.5 | 2489.21 |
| Zn 206.200 | 94.7357 | ppb | 0.8281 | 0.9 | 86.2447 |

**680-106200-b-51-a (Samp)** **10/15/2014, 7:10:14 PM** **Rack 2, Tube 60**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 8.8973 | 9.0423 | 9.1309 |
| Al 308.215 | 133745 | 133764 | 133615 |
| As 188.980 | 280.895 | 273.876 | 278.510 |
| B 249.678 | 59.0859 | 57.8067 | 57.6768 |
| Ba 389.178 | 4109.96 | 4110.49 | 4108.61 |
| Be 313.042 | 12.6721 | 12.6925 | 12.7049 |
| Ca 370.602 | 76069 | 76281 | 76140 |
| Cd 226.502 | 20.0238 | 20.5314 | 20.0729 |
| Co 228.615 | 127.737 | 128.255 | 128.130 |
| Cr 267.716 | 711.744 | 711.855 | 711.578 |
| Cu 324.754 | 1973.20 | 1970.39 | 1969.26 |
| Fe 271.441 | 406921 | 407901 | 407421 |
| K 766.491 | 13317.5 | 13314.0 | 13351.6 |
| Mg 279.078 | 13255.6 | 13284.7 | 13256.0 |
| Mn 257.610 | 9236.23 | 9219.96 | 9229.57 |
| Mo 202.032 | 26.9406 | 27.8580 | 27.4061 |
| Na 330.237 | 2694.78u | 2701.81u | 2830.16u |
| Ni 231.604 | 205.975 | 207.725 | 204.408 |
| Pb 220.353 | 3337.08 | 3343.66 | 3346.03 |
| Sb 206.834 | 52.2239 | 49.0521 | 41.2817 |
| Se 196.026 | 1.4360 | 6.6959 | 12.2398 |
| Sn 189.925 | 219.168 | 219.019 | 220.740 |
| Sr 216.596 | 653.530 | 653.908 | 652.584 |
| Ti 334.941 | 2198.68 | 2202.94 | 2200.48 |
| Tl 190.794 | -9.2548u | -8.2762u | -11.0840u |
| V 292.401 | 588.742 | 589.828 | 589.271 |
| Zn 206.200 | 7944.06 | 7945.00 | 7921.78 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 9.0235 | ppb | 0.1179 | 1.3 | 648.577 |
| Al 308.215 | 133708 | ppb | 81.3299 | 0.1 | 885920 |
| As 188.980 | 277.760 | ppb | 3.5691 | 1.3 | 145.586 |
| B 249.678 | 58.1898 | ppb | 0.7787 | 1.3 | 65.7435 |
| Ba 389.178 | 4109.69 | ppb | 0.9665 | 0.0 | 83519.6 |
| Be 313.042 | 12.6898 | ppb | 0.0166 | 0.1 | 20383.3 |
| Ca 370.602 | 76163 | ppb | 108.0 | 0.1 | 173090 |
| Cd 226.502 | 20.2094 | ppb | 0.2799 | 1.4 | 2217.80 |
| Co 228.615 | 128.041 | ppb | 0.2701 | 0.2 | 1404.40 |
| Cr 267.716 | 711.726 | ppb | 0.1392 | 0.0 | 35566.4 |
| Cu 324.754 | 1970.95 | ppb | 2.0263 | 0.1 | 138646 |
| Fe 271.441 | 407414 | ppb | 489.891 | 0.1 | 573770 |
| K 766.491 | 13327.7 | ppb | 20.7643 | 0.2 | 570460 |
| Mg 279.078 | 13265.5 | ppb | 16.6870 | 0.1 | 32033.4 |
| Mn 257.610 | 9228.59 | ppb | 8.1793 | 0.1 | 1909689 |
| Mo 202.032 | 27.4016 | ppb | 0.4587 | 1.7 | 157975 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 2742.25 | ppb | 76.2144 | 2.8 | -142.857 |
| Ni 231.604 | 206.036 | ppb | 1.6597 | 0.8 | 596.681 |
| Pb 220.353 | 3342.26 | ppb | 4.6372 | 0.1 | 4741.31 |
| Sb 206.834 | 47.5192 | ppb | 5.6299 | 11.8 | 82.9606 |
| Se 196.026 | 6.7906 | ppb | 5.4025 | 79.6 | 10.1845 |
| Sn 189.925 | 219.642 | ppb | 0.9538 | 0.4 | 139.038 |
| Sr 216.596 | 653.340 | ppb | 0.6818 | 0.1 | 7595.06 |
| Ti 334.941 | 2200.70 | ppb | 2.1382 | 0.1 | 610666 |
| Tl 190.794 | -9.5383 | ppb | 1.4252 | 14.9 | -58.6975 |
| V 292.401 | 589.280 | ppb | 0.5432 | 0.1 | 15408.2 |
| Zn 206.200 | 7936.95 | ppb | 13.1448 | 0.2 | 7144.39 |

**Cont Calib Verif (CCV)** **10/15/2014, 7:14:31 PM** **Rack 3, Tube 1**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 492.079 | 491.033 | 489.140 |
| Al 308.215 | 4819.53 | 4829.13 | 4824.82 |
| As 188.980 | 460.343 | 456.641 | 456.071 |
| B 249.678 | 481.390 | 484.750 | 486.378 |
| Ba 389.178 | 4801.52 | 4806.98 | 4793.53 |
| Be 313.042 | 484.999 | 483.682 | 484.601 |
| Ca 370.602 | 4858 | 4886 | 4889 |
| Cd 226.502 | 482.048 | 483.523 | 481.921 |
| Co 228.615 | 492.108 | 493.044 | 492.081 |
| Cr 267.716 | 4829.53 | 4843.97 | 4834.74 |
| Cu 324.754 | 5066.25 | 5026.14 | 5030.56 |
| Fe 271.441 | 4875.21 | 4886.30 | 4892.69 |
| K 766.491 | 10028.6 | 10038.4 | 10040.0 |
| Mg 279.078 | 4840.68 | 4859.78 | 4843.40 |
| Mn 257.610 | 4985.09 | 4975.79 | 4973.95 |
| Mo 202.032 | 486.542 | 490.001 | 490.613 |
| Na 330.237 | 7462.36 | 7242.54 | 7559.63 |
| Ni 231.604 | 2453.09 | 2467.81 | 2457.81 |
| Pb 220.353 | 492.314 | 490.863 | 489.963 |
| Sb 206.834 | 920.620 | 921.381 | 923.542 |
| Se 196.026 | 4780.43 | 4798.94 | 4749.39 |
| Sn 189.925 | 4871.83 | 4889.24 | 4882.56 |
| Sr 216.596 | 2384.20 | 2397.03 | 2389.43 |
| Ti 334.941 | 483.139 | 483.491 | 482.948 |
| Tl 190.794 | 4922.71 | 4940.99 | 4936.66 |
| V 292.401 | 4822.56 | 4834.87 | 4831.86 |
| Zn 206.200 | 2401.80 | 2415.45 | 2383.07 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 490.751 | ppb | 1.4893 | 0.3 | 37904.1 | 98.15012 |
| Al 308.215 | 4824.50 | ppb | 4.8102 | 0.1 | 32823.6 | 96.48990 |
| As 188.980 | 457.685 | ppb | 2.3196 | 0.5 | 243.031 | 91.53701 |
| B 249.678 | 484.173 | ppb | 2.5437 | 0.5 | 7358.75 | 96.83456 |
| Ba 389.178 | 4800.68 | ppb | 6.7615 | 0.1 | 97333.6 | 96.01356 |
| Be 313.042 | 484.428 | ppb | 0.6753 | 0.1 | 788490 | 96.88551 |
| Ca 370.602 | 4878 | ppb | 17.38 | 0.4 | 11546 | 97.55231 |
| Cd 226.502 | 482.497 | ppb | 0.8903 | 0.2 | 18087.8 | 96.49950 |
| Co 228.615 | 492.411 | ppb | 0.5487 | 0.1 | 5136.70 | 98.48219 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Cr 267.716 | 4836.08 | ppb | 7.3101 | 0.2 | 239981 | 96.72158 |
| Cu 324.754 | 5040.98 | ppb | 21.9967 | 0.4 | 353760 | 100.81968 |
| Fe 271.441 | 4884.73 | ppb | 8.8440 | 0.2 | 6982.40 | 97.69461 |
| K 766.491 | 10035.7 | ppb | 6.2013 | 0.1 | 429633 | 100.35680 |
| Mg 279.078 | 4847.95 | ppb | 10.3294 | 0.2 | 11704.2 | 96.95905 |
| Mn 257.610 | 4978.28 | ppb | 5.9702 | 0.1 | 1029557 | 99.56553 |
| Mo 202.032 | 489.052 | ppb | 2.1952 | 0.4 | 3027.72 | 97.81034 |
| Na 330.237 | 7421.51 | ppb | 162.444 | 2.2 | 315.812 | 98.95347 |
| Ni 231.604 | 2459.57 | ppb | 7.5196 | 0.3 | 6807.94 | 98.38284 |
| Pb 220.353 | 491.047 | ppb | 1.1862 | 0.2 | 703.785 | 98.20934 |
| Sb 206.834 | 921.848 | ppb | 1.5161 | 0.2 | 1260.59 | 92.18475 |
| Se 196.026 | 4776.25 | ppb | 25.0370 | 0.5 | 1842.65 | 95.52509 |
| Sn 189.925 | 4881.21 | ppb | 8.7803 | 0.2 | 3203.95 | 97.62417 |
| Sr 216.596 | 2390.22 | ppb | 6.4498 | 0.3 | 26058.8 | 95.60889 |
| Ti 334.941 | 483.193 | ppb | 0.2755 | 0.1 | 134023 | 96.63854 |
| Tl 190.794 | 4933.45 | ppb | 9.5553 | 0.2 | 4825.30 | 98.66908 |
| V 292.401 | 4829.76 | ppb | 6.4191 | 0.1 | 124897 | 96.59524 |
| Zn 206.200 | 2400.11 | ppb | 16.2598 | 0.7 | 2153.95 | 96.00426 |

**Cont Calib Blank (CCB)** **10/15/2014, 7:18:49 PM** **Rack 3, Tube 2**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1311 | 0.1048 | 0.2361 |
| Al 308.215 | 12.6404 | 12.2566 | 13.4570 |
| As 188.980 | 4.0816 | 5.2955 | 4.0241 |
| B 249.678 | 8.9055 | 8.2337 | 6.6244 |
| Ba 389.178 | 1.7099 | 1.4590 | 1.0681 |
| Be 313.042 | 0.0709 | 0.0701 | 0.0902 |
| Ca 370.602 | -0.0567u | 5.155 | 9.019 |
| Cd 226.502 | 0.1107 | 0.0795 | -0.0237u |
| Co 228.615 | 0.1307 | 0.5254 | 0.5798 |
| Cr 267.716 | 0.6846 | 0.6317 | 0.9846 |
| Cu 324.754 | 0.7312 | 0.6538 | 0.7921 |
| Fe 271.441 | 9.5984 | 9.1806 | 13.0625 |
| K 766.491 | 0.2262 | -0.5498u | -0.3184u |
| Mg 279.078 | 0.0348 | 1.9721 | 0.5703 |
| Mn 257.610 | 0.9988 | 0.9381 | 1.1832 |
| Mo 202.032 | 0.6877 | 1.1050 | 0.3990 |
| Na 330.237 | -62.7587u | -100.759u | -90.5316u |
| Ni 231.604 | 0.9761 | 1.4721 | 0.6929 |
| Pb 220.353 | 2.6673 | 1.6706 | 2.2296 |
| Sb 206.834 | 2.2262 | 4.0643 | 3.0102 |
| Se 196.026 | 11.2215 | 17.4390 | 4.3466 |
| Sn 189.925 | -0.8471u | 3.1126 | 3.2532 |
| Sr 216.596 | 0.0229 | -0.2769u | 0.2397 |
| Ti 334.941 | 0.2522 | 0.2120 | 0.2879 |
| Tl 190.794 | 4.3591 | 4.7326 | 0.9133 |
| V 292.401 | 0.6739 | 0.5910 | 1.3657 |
| Zn 206.200 | 1.6516 | 2.5498 | -0.8634u |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.1573 | ppb | 0.0695 | 44.2 | 1.7126 | 0.15734 |
| Al 308.215 | 12.7847 | ppb | 0.6130 | 4.8 | 479.095 | 12.78466 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| As 188.980 | 4.4671 | ppb | 0.7180 | 16.1 | -0.0156 | 4.46706 |
| B 249.678 | 7.9212 | ppb | 1.1722 | 14.8 | 155.276 | 7.92118 |
| Ba 389.178 | 1.4123 | ppb | 0.3234 | 22.9 | -22.1302 | 1.41234 |
| Be 313.042 | 0.0771 | ppb | 0.0114 | 14.7 | -191.597 | 0.07709 |
| Ca 370.602 | 4.706 | ppb | 4.555 | 96.8 | 22.03 | 4.70582 |
| Cd 226.502 | 0.0555 | ppb | 0.0703 | 126.7 | 15.3144 | 0.05550 |
| Co 228.615 | 0.4119 | ppb | 0.2451 | 59.5 | 7.4321 | 0.41195 |
| Cr 267.716 | 0.7670 | ppb | 0.1903 | 24.8 | 69.1904 | 0.76698 |
| Cu 324.754 | 0.7257 | ppb | 0.0693 | 9.6 | 300.808 | 0.72569 |
| Fe 271.441 | 10.6139 | ppb | 2.1309 | 20.1 | 21.8109 | 10.61388 |
| K 766.491 | -0.2140 | ppb | 0.3984 | 186.2 | 315.928 | -0.21398 |
| Mg 279.078 | 0.8591 | ppb | 1.0004 | 116.5 | 20.9960 | 0.85910 |
| Mn 257.610 | 1.0401 | ppb | 0.1277 | 12.3 | 255.800 | 1.04006 |
| Mo 202.032 | 0.7305 | ppb | 0.3549 | 48.6 | 10.7952 | 0.73054 |
| Na 330.237 | -84.6830 | ppb | 19.6635 | 23.2 | 17.9791 | -84.68301 |
| Ni 231.604 | 1.0471 | ppb | 0.3944 | 37.7 | -1.8761 | 1.04706 |
| Pb 220.353 | 2.1892 | ppb | 0.4996 | 22.8 | 3.5565 | 2.18920 |
| Sb 206.834 | 3.1002 | ppb | 0.9224 | 29.8 | 5.2088 | 3.10024 |
| Se 196.026 | 11.0024 | ppb | 6.5490 | 59.5 | 6.9764 | 11.00239Z |
| Sn 189.925 | 1.8396 | ppb | 2.3278 | 126.5 | -4.1633 | 1.83957 |
| Sr 216.596 | -0.0048 | ppb | 0.2594 | 5425.3 | 2.3152 | -0.00478 |
| Ti 334.941 | 0.2507 | ppb | 0.0380 | 15.2 | 7.6873 | 0.25069 |
| Tl 190.794 | 3.3350 | ppb | 2.1056 | 63.1 | -2.7023 | 3.33502 |
| V 292.401 | 0.8769 | ppb | 0.4254 | 48.5 | 15.5028 | 0.87689 |
| Zn 206.200 | 1.1127 | ppb | 1.7693 | 159.0 | 2.2080 | 1.11267 |

**680-106200-b-51-aSD (Samp)** **10/15/2014, 7:23:06 PM** **Rack 3, Tube 3**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 1.5096 | 1.5315 | 1.7077 |
| Al 308.215 | 27131.5 | 26333.3 | 25684.8 |
| As 188.980 | 61.5815 | 60.5498 | 56.8594 |
| B 249.678 | 14.7556 | 14.1782 | 13.8262 |
| Ba 389.178 | 868.544 | 844.925 | 823.842 |
| Be 313.042 | 2.6327 | 2.5641 | 2.5059 |
| Ca 370.602 | 15418 | 15093 | 14746 |
| Cd 226.502 | 4.8629 | 4.4175 | 3.7907 |
| Co 228.615 | 26.2962 | 26.3525 | 25.6783 |
| Cr 267.716 | 149.170 | 145.020 | 141.741 |
| Cu 324.754 | 398.755 | 383.386 | 376.866 |
| Fe 271.441 | 85143.9 | 82786.1 | 80721.0 |
| K 766.491 | 2442.33 | 2391.91 | 2333.85 |
| Mg 279.078 | 2858.28 | 2786.75 | 2721.20 |
| Mn 257.610 | 2016.49 | 1964.58 | 1916.48 |
| Mo 202.032 | 5.6477 | 4.9827 | 5.4318 |
| Na 330.237 | 585.781u | 671.418u | 621.285u |
| Ni 231.604 | 43.5737 | 42.7811 | 42.2786 |
| Pb 220.353 | 715.943 | 698.395 | 678.889 |
| Sb 206.834 | 9.2218 | 12.6429 | 7.5687 |
| Se 196.026 | 4.1268 | 9.2832 | 4.5253 |
| Sn 189.925 | 47.4953 | 50.2126 | 50.1758 |
| Sr 216.596 | 141.190 | 136.355 | 132.834 |
| Ti 334.941 | 463.594 | 450.436 | 439.694 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -6.3598u | -0.7626u | 2.1998u |
| V 292.401 | 123.696 | 120.014 | 117.719 |
| Zn 206.200 | 1680.93 | 1649.29 | 1614.86 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 1.5829 | ppb | 0.1086 | 6.9 | 104.336 |
| Al 308.215 | 26383.2 | ppb | 724.667 | 2.7 | 175131 |
| As 188.980 | 59.6636 | ppb | 2.4827 | 4.2 | 29.3815 |
| B 249.678 | 14.2533 | ppb | 0.4693 | 3.3 | 77.5690 |
| Ba 389.178 | 845.770 | ppb | 22.3633 | 2.6 | 17147.7 |
| Be 313.042 | 2.5676 | ppb | 0.0635 | 2.5 | 3871.46 |
| Ca 370.602 | 15086 | ppb | 336.4 | 2.2 | 34278 |
| Cd 226.502 | 4.3570 | ppb | 0.5387 | 12.4 | 471.901 |
| Co 228.615 | 26.1090 | ppb | 0.3741 | 1.4 | 289.000 |
| Cr 267.716 | 145.310 | ppb | 3.7232 | 2.6 | 7286.63 |
| Cu 324.754 | 386.336 | ppb | 11.2384 | 2.9 | 27378.8 |
| Fe 271.441 | 82883.6 | ppb | 2213.10 | 2.7 | 116732 |
| K 766.491 | 2389.36 | ppb | 54.2822 | 2.3 | 102538 |
| Mg 279.078 | 2788.74 | ppb | 68.5619 | 2.5 | 6749.15 |
| Mn 257.610 | 1965.85 | ppb | 50.0149 | 2.5 | 406818 |
| Mo 202.032 | 5.3541 | ppb | 0.3393 | 6.3 | 35.7599 |
| Na 330.237 | 626.161 | ppb | 43.0266 | 6.9 | -9.2969 |
| Ni 231.604 | 42.8778 | ppb | 0.6530 | 1.5 | 120.269 |
| Pb 220.353 | 697.742 | ppb | 18.5354 | 2.7 | 990.300 |
| Sb 206.834 | 9.8111 | ppb | 2.5879 | 26.4 | 17.9886 |
| Se 196.026 | 5.9784 | ppb | 2.8689 | 48.0 | 6.0451 |
| Sn 189.925 | 49.2946 | ppb | 1.5583 | 3.2 | 27.0375 |
| Sr 216.596 | 136.793 | ppb | 4.1952 | 3.1 | 1589.85 |
| Ti 334.941 | 451.241 | ppb | 11.9703 | 2.7 | 125164 |
| Tl 190.794 | -1.6409 | ppb | 4.3469 | 264.9 | -16.3855 |
| V 292.401 | 120.476 | ppb | 3.0155 | 2.5 | 3144.51 |
| Zn 206.200 | 1648.36 | ppb | 33.0446 | 2.0 | 1484.77 |

**680-106200-b-51-aPDS (Samp)** **10/15/2014, 7:27:23 PM** **Rack 3, Tube 4**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 101.633 | 101.344 | 100.655 |
| Al 308.215 | 134719 | 134313 | 134061 |
| As 188.980 | 382.147 | 379.260 | 384.727 |
| B 249.678 | 241.284 | 243.831 | 244.808 |
| Ba 389.178 | 4157.62 | 4145.28 | 4136.75 |
| Be 313.042 | 106.967 | 106.630 | 106.509 |
| Ca 370.602 | 84334 | 83938 | 83774 |
| Cd 226.502 | 112.401 | 111.072 | 111.118 |
| Co 228.615 | 221.167 | 219.391 | 217.719 |
| Cr 267.716 | 799.340 | 797.055 | 794.473 |
| Cu 324.754 | 2071.23 | 2054.77 | 2055.91 |
| Fe 271.441 | 412803 | 411567 | 410059 |
| K 766.491 | 23515.8 | 23481.2 | 23468.4 |
| Mg 279.078 | 22422.9 | 22370.2 | 22301.7 |
| Mn 257.610 | 10060.0 | 10020.8 | 9960.70 |
| Mo 202.032 | 120.086 | 119.960 | 120.570 |
| Na 330.237 | 11692.3 | 11557.1 | 11546.7 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 299.234 | 295.912 | 298.246 |
| Pb 220.353 | 3405.43 | 3394.76 | 3370.04 |
| Sb 206.834 | 145.064 | 138.763 | 141.901 |
| Se 196.026 | 125.815 | 112.321 | 101.892 |
| Sn 189.925 | 309.126 | 312.798 | 304.790 |
| Sr 216.596 | 742.139 | 739.849 | 739.401 |
| Ti 334.941 | 2260.41 | 2256.70 | 2252.99 |
| Tl 190.794 | 14.5584u | 9.4737u | 2.3083u |
| V 292.401 | 680.394 | 679.582 | 676.690 |
| Zn 206.200 | 7975.11 | 7950.34 | 7912.70 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 101.211 | ppb | 0.5021 | 0.5 | 7778.65 |
| Al 308.215 | 134364 | ppb | 331.656 | 0.2 | 890284 |
| As 188.980 | 382.045 | ppb | 2.7348 | 0.7 | 201.488 |
| B 249.678 | 243.308 | ppb | 1.8193 | 0.7 | 2854.72 |
| Ba 389.178 | 4146.55 | ppb | 10.4919 | 0.3 | 84282.1 |
| Be 313.042 | 106.702 | ppb | 0.2374 | 0.2 | 173427 |
| Ca 370.602 | 84015 | ppb | 288.2 | 0.3 | 191232 |
| Cd 226.502 | 111.530 | ppb | 0.7541 | 0.7 | 5654.90 |
| Co 228.615 | 219.425 | ppb | 1.7245 | 0.8 | 2355.86 |
| Cr 267.716 | 796.956 | ppb | 2.4350 | 0.3 | 39800.3 |
| Cu 324.754 | 2060.63 | ppb | 9.1899 | 0.4 | 144940 |
| Fe 271.441 | 411476 | ppb | 1374.03 | 0.3 | 579501 |
| K 766.491 | 23488.5 | ppb | 24.4997 | 0.1 | 1005120 |
| Mg 279.078 | 22364.9 | ppb | 60.7757 | 0.3 | 54125.1 |
| Mn 257.610 | 10013.8 | ppb | 50.0305 | 0.5 | 2072156 |
| Mo 202.032 | 120.205 | ppb | 0.3222 | 0.3 | 731.955 |
| Na 330.237 | 11598.7 | ppb | 81.2327 | 0.7 | 278.414 |
| Ni 231.604 | 297.797 | ppb | 1.7061 | 0.6 | 851.089 |
| Pb 220.353 | 3390.08 | ppb | 18.1550 | 0.5 | 4809.20 |
| Sb 206.834 | 141.910 | ppb | 3.1503 | 2.2 | 207.084 |
| Se 196.026 | 113.342 | ppb | 11.9939 | 10.6 | 51.4093 |
| Sn 189.925 | 308.905 | ppb | 4.0086 | 1.3 | 197.729 |
| Sr 216.596 | 740.463 | ppb | 1.4685 | 0.2 | 8552.57 |
| Ti 334.941 | 2256.70 | ppb | 3.7106 | 0.2 | 626220 |
| Tl 190.794 | 8.7801 | ppb | 6.1544 | 70.1 | -40.9673 |
| V 292.401 | 678.889 | ppb | 1.9468 | 0.3 | 17715.1 |
| Zn 206.200 | 7946.05 | ppb | 31.4230 | 0.4 | 7152.16 |

**680-106200-a-51-a ms (Samp)** **10/15/2014, 7:31:41 PM** **Rack 3, Tube 5**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 44.9916 | 44.9514 | 45.4797 |
| Al 308.215 | 154060 | 154300 | 154179 |
| As 188.980 | 476.782 | 477.364 | 469.468 |
| B 249.678 | 195.023 | 196.121 | 195.452 |
| Ba 389.178 | 4936.18 | 4933.98 | 4925.27 |
| Be 313.042 | 58.9477 | 58.9183 | 58.7930 |
| Ca 370.602 | 66526 | 66728 | 66786 |
| Cd 226.502 | 63.0710 | 63.5535 | 63.3591 |
| Co 228.615 | 342.730 | 342.796 | 345.111 |
| Cr 267.716 | 610.579 | 612.284 | 611.554 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 2179.14 | 2191.05 | 2151.52 |
| Fe 271.441 | 521046 | 521177 | 519929 |
| K 766.491 | 19317.4 | 19286.1 | 19262.3 |
| Mg 279.078 | 16031.5 | 16091.1 | 16084.4 |
| Mn 257.610 | 26424.8 | 26779.5 | 26901.7 |
| Mo 202.032 | 115.897 | 115.595 | 117.942 |
| Na 330.237 | 6951.58 | 6688.21 | 6809.65 |
| Ni 231.604 | 264.801 | 262.861 | 264.011 |
| Pb 220.353 | 3854.32 | 3873.28 | 3876.36 |
| Sb 206.834 | 41.2337 | 38.6346 | 39.3927 |
| Se 196.026 | 88.8613 | 75.7874 | 90.0934 |
| Sn 189.925 | 325.249 | 335.142 | 325.997 |
| Sr 216.596 | 684.357 | 687.191 | 686.543 |
| Ti 334.941 | 1864.77 | 1864.18 | 1862.87 |
| Tl 190.794 | 24.8755u | 25.8378u | 20.6659u |
| V 292.401 | 745.262 | 745.978 | 743.545 |
| Zn 206.200 | 7598.46 | 7632.93 | 7596.54 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 45.1409 | ppb | 0.2941 | 0.7 | 3505.60 |
| Al 308.215 | 154180 | ppb | 120.152 | 0.1 | 1021596 |
| As 188.980 | 474.538 | ppb | 4.4005 | 0.9 | 250.699 |
| B 249.678 | 195.532 | ppb | 0.5534 | 0.3 | 1900.97 |
| Ba 389.178 | 4931.81 | ppb | 5.7695 | 0.1 | 100255 |
| Be 313.042 | 58.8864 | ppb | 0.0821 | 0.1 | 95575.9 |
| Ca 370.602 | 66680 | ppb | 136.2 | 0.2 | 150294 |
| Cd 226.502 | 63.3278 | ppb | 0.2428 | 0.4 | 4242.57 |
| Co 228.615 | 343.546 | ppb | 1.3560 | 0.4 | 3647.80 |
| Cr 267.716 | 611.473 | ppb | 0.8555 | 0.1 | 30717.9 |
| Cu 324.754 | 2173.90 | ppb | 20.2785 | 0.9 | 152929 |
| Fe 271.441 | 520717 | ppb | 685.667 | 0.1 | 733354 |
| K 766.491 | 19288.6 | ppb | 27.6714 | 0.1 | 825456 |
| Mg 279.078 | 16069.0 | ppb | 32.6472 | 0.2 | 38514.5 |
| Mn 257.610 | 26702.0 | ppb | 247.712 | 0.9 | 5523400 |
| Mo 202.032 | 116.478 | ppb | 1.2769 | 1.1 | 704.147 |
| Na 330.237 | 6816.48 | ppb | 131.818 | 1.9 | 32.8383 |
| Ni 231.604 | 263.891 | ppb | 0.9755 | 0.4 | 765.264 |
| Pb 220.353 | 3867.99 | ppb | 11.9352 | 0.3 | 5486.92 |
| Sb 206.834 | 39.7537 | ppb | 1.3367 | 3.4 | 73.8356 |
| Se 196.026 | 84.9140 | ppb | 7.9279 | 9.3 | 44.5040 |
| Sn 189.925 | 328.796 | ppb | 5.5088 | 1.7 | 210.806 |
| Sr 216.596 | 686.030 | ppb | 1.4848 | 0.2 | 8069.73 |
| Ti 334.941 | 1863.94 | ppb | 0.9715 | 0.1 | 517239 |
| Tl 190.794 | 23.7931 | ppb | 2.7506 | 11.6 | -31.4219 |
| V 292.401 | 744.928 | ppb | 1.2506 | 0.2 | 19468.4 |
| Zn 206.200 | 7609.31 | ppb | 20.4780 | 0.3 | 6844.65 |

**680-106200-a-51-b ms (Samp)** **10/15/2014, 7:35:58 PM** **Rack 3, Tube 6**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 49.0003 | 49.6111 | 48.6799 |
| Al 308.215 | 159928 | 160066 | 160005 |
| As 188.980 | 400.485 | 397.187 | 403.260 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 194.735 | 196.291 | 195.721 |
| Ba 389.178 | 4503.00 | 4506.85 | 4498.50 |
| Be 313.042 | 60.3276 | 60.4127 | 60.2479 |
| Ca 370.602 | 80705 | 80764 | 80328 |
| Cd 226.502 | 65.1756 | 65.7836 | 65.9006 |
| Co 228.615 | 251.498 | 251.261 | 253.168 |
| Cr 267.716 | 766.602 | 767.251 | 764.759 |
| Cu 324.754 | 4724.70 | 4745.72 | 4749.88 |
| Fe 271.441 | 480720 | 480795 | 475983 |
| K 766.491 | 17469.1 | 17490.1 | 17490.7 |
| Mg 279.078 | 17731.7 | 17720.6 | 17682.8 |
| Mn 257.610 | 19941.8 | 19939.1 | 19782.5 |
| Mo 202.032 | 111.935 | 113.878 | 110.771 |
| Na 330.237 | 7190.76 | 7172.99 | 7365.37 |
| Ni 231.604 | 248.638 | 249.178 | 247.163 |
| Pb 220.353 | 3641.92 | 3662.65 | 3640.95 |
| Sb 206.834 | 42.6920 | 38.5304 | 43.7421 |
| Se 196.026 | 72.0720 | 90.7057 | 84.4396 |
| Sn 189.925 | 383.419 | 369.531 | 386.691 |
| Sr 216.596 | 675.360 | 675.334 | 671.004 |
| Ti 334.941 | 1951.81 | 1956.00 | 1952.30 |
| Tl 190.794 | 32.0220u | 25.6893u | 25.5849u |
| V 292.401 | 862.863 | 863.047 | 861.672 |
| Zn 206.200 | 7419.91 | 7408.76 | 7355.87 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 49.0971 | ppb | 0.4731 | 1.0 | 3786.51 |
| Al 308.215 | 160000 | ppb | 68.8818 | 0.0 | 1060053 |
| As 188.980 | 400.311 | ppb | 3.0402 | 0.8 | 211.145 |
| B 249.678 | 195.582 | ppb | 0.7876 | 0.4 | 1988.32 |
| Ba 389.178 | 4502.78 | ppb | 4.1783 | 0.1 | 91535.4 |
| Be 313.042 | 60.3294 | ppb | 0.0824 | 0.1 | 97939.6 |
| Ca 370.602 | 80599 | ppb | 236.5 | 0.3 | 182764 |
| Cd 226.502 | 65.6199 | ppb | 0.3892 | 0.6 | 4180.95 |
| Co 228.615 | 251.976 | ppb | 1.0393 | 0.4 | 2693.49 |
| Cr 267.716 | 766.204 | ppb | 1.2928 | 0.2 | 38346.5 |
| Cu 324.754 | 4740.10 | ppb | 13.4999 | 0.3 | 332894 |
| Fe 271.441 | 479166 | ppb | 2757.17 | 0.6 | 674831 |
| K 766.491 | 17483.3 | ppb | 12.2589 | 0.1 | 748228 |
| Mg 279.078 | 17711.7 | ppb | 25.6587 | 0.1 | 42629.3 |
| Mn 257.610 | 19887.8 | ppb | 91.2097 | 0.5 | 4114171 |
| Mo 202.032 | 112.195 | ppb | 1.5696 | 1.4 | 679.285 |
| Na 330.237 | 7243.04 | ppb | 106.313 | 1.5 | 68.0350 |
| Ni 231.604 | 248.326 | ppb | 1.0428 | 0.4 | 719.200 |
| Pb 220.353 | 3648.50 | ppb | 12.2583 | 0.3 | 5175.20 |
| Sb 206.834 | 41.6548 | ppb | 2.7563 | 6.6 | 76.8132 |
| Se 196.026 | 82.4057 | ppb | 9.4819 | 11.5 | 41.9134 |
| Sn 189.925 | 379.880 | ppb | 9.1113 | 2.4 | 244.393 |
| Sr 216.596 | 673.899 | ppb | 2.5072 | 0.4 | 7898.15 |
| Ti 334.941 | 1953.37 | ppb | 2.2875 | 0.1 | 542053 |
| Tl 190.794 | 27.7654 | ppb | 3.6867 | 13.3 | -25.7497 |
| V 292.401 | 862.527 | ppb | 0.7466 | 0.1 | 22496.9 |
| Zn 206.200 | 7394.85 | ppb | 34.2112 | 0.5 | 6652.34 |

**680-106200-b-53-a (Samp)** **10/15/2014, 7:40:16 PM** **Rack 3, Tube 7**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 1.8533 | 1.6646 | 1.3933 |
| Al 308.215 | 114124 | 113986 | 114009 |
| As 188.980 | 222.869 | 224.909 | 225.402 |
| B 249.678 | 36.9860u | 37.7230u | 37.6899u |
| Ba 389.178 | 2490.81 | 2483.19 | 2482.08 |
| Be 313.042 | 11.2263 | 11.1978 | 11.2028 |
| Ca 370.602 | 185945 | 185780 | 187502 |
| Cd 226.502 | 13.1339 | 13.2534 | 12.8005 |
| Co 228.615 | 125.551 | 125.165 | 126.863 |
| Cr 267.716 | 307.971 | 306.502 | 307.286 |
| Cu 324.754 | 758.894 | 758.489 | 767.354 |
| Fe 271.441 | 321873 | 321277 | 321258 |
| K 766.491 | 30730.3 | 30684.6 | 30628.6 |
| Mg 279.078 | 26727.2 | 26688.5 | 26717.7 |
| Mn 257.610 | 44515.8x | 44561.2x | 44522.2x |
| Mo 202.032 | 26.5770 | 25.9602 | 26.3910 |
| Na 330.237 | 2552.57u | 2337.51u | 2515.83u |
| Ni 231.604 | 191.673 | 191.970 | 195.212 |
| Pb 220.353 | 2627.47 | 2633.28 | 2631.20 |
| Sb 206.834 | 7.8057 | 6.6463 | 11.2731 |
| Se 196.026 | 6.2158 | 14.8906 | -0.4629 |
| Sn 189.925 | 65.6939 | 79.6564 | 74.4632 |
| Sr 216.596 | 459.986 | 458.381 | 458.895 |
| Ti 334.941 | 1532.97 | 1525.47 | 1526.37 |
| Tl 190.794 | 6.2161u | 12.3571u | 8.8045u |
| V 292.401 | 356.474 | 355.519 | 355.454 |
| Zn 206.200 | 4614.28 | 4589.60 | 4607.91 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 1.6371b | ppb | 0.2312 | 14.1 | 261.850 |
| Al 308.215 | 114039b | ppb | 73.9403 | 0.1 | 755601 |
| As 188.980 | 224.394b | ppb | 1.3427 | 0.6 | 117.233 |
| B 249.678 | 37.4663b | ppb | 0.4163 | 1.1 | -71.8966 |
| Ba 389.178 | 2485.36b | ppb | 4.7494 | 0.2 | 50550.4 |
| Be 313.042 | 11.2089b | ppb | 0.0152 | 0.1 | 17987.8 |
| Ca 370.602 | 186409b | ppb | 949.9 | 0.5 | 429257 |
| Cd 226.502 | 13.0626b | ppb | 0.2347 | 1.8 | 1650.40 |
| Co 228.615 | 125.860b | ppb | 0.8903 | 0.7 | 1363.35 |
| Cr 267.716 | 307.253b | ppb | 0.7351 | 0.2 | 15617.6 |
| Cu 324.754 | 761.579b | ppb | 5.0056 | 0.7 | 53793.2 |
| Fe 271.441 | 321469b | ppb | 349.647 | 0.1 | 452735 |
| K 766.491 | 30681.2b | ppb | 50.9354 | 0.2 | 1312809 |
| Mg 279.078 | 26711.1b | ppb | 20.1791 | 0.1 | 64053.8 |
| Mn 257.610 | 44533.1xb | ppb | 24.5846 | 0.1 | 9210219 |
| Mo 202.032 | 26.3094b | ppb | 0.3164 | 1.2 | 155.028 |
| Na 330.237 | 2468.63b | ppb | 115.035 | 4.7 | -52.9120 |
| Ni 231.604 | 192.952b | ppb | 1.9631 | 1.0 | 554.019 |
| Pb 220.353 | 2630.65b | ppb | 2.9396 | 0.1 | 3738.47 |
| Sb 206.834 | 8.5750b | ppb | 2.4074 | 28.1 | 24.9465 |
| Se 196.026 | 6.8812b | ppb | 7.6984 | 111.9 | 16.3871 |
| Sn 189.925 | 73.2712b | ppb | 7.0572 | 9.6 | 42.8016 |
| Sr 216.596 | 459.087b | ppb | 0.8194 | 0.2 | 5421.63 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 1528.27b | ppb | 4.0943 | 0.3 | 424091 |
| Tl 190.794 | 9.1259b | ppb | 3.0831 | 33.8 | -14.5978 |
| V 292.401 | 355.816b | ppb | 0.5712 | 0.2 | 9334.76 |
| Zn 206.200 | 4603.93b | ppb | 12.8122 | 0.3 | 4141.66 |

**680-106200-b-60-a (Samp)** **10/15/2014, 7:44:33 PM** **Rack 3, Tube 8**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -2.3208u | -2.1988u | -2.3151u |
| Al 308.215 | 167750 | 168118 | 168009 |
| As 188.980 | 604.935 | 606.382 | 596.715 |
| B 249.678 | 24.3768u | 22.7876u | 23.5697u |
| Ba 389.178 | 747.078 | 746.128 | 746.573 |
| Be 313.042 | 12.2760 | 12.2913 | 12.2634 |
| Ca 370.602 | 54125 | 54161 | 54033 |
| Cd 226.502 | -3.9721 | -3.5671 | -4.0447 |
| Co 228.615 | 139.589 | 138.292 | 138.285 |
| Cr 267.716 | 702.824 | 704.491 | 702.913 |
| Cu 324.754 | 126.427 | 125.549 | 125.841 |
| Fe 271.441 | 715126 | 714380 | 713484 |
| K 766.491 | 8215.26 | 8225.08 | 8231.69 |
| Mg 279.078 | 10513.4 | 10530.8 | 10519.0 |
| Mn 257.610 | 16000.5 | 16021.8 | 15947.3 |
| Mo 202.032 | 24.7934 | 24.9170 | 24.6810 |
| Na 330.237 | 182.708u | 690.866u | 617.902u |
| Ni 231.604 | 95.2860 | 93.8869 | 94.4084 |
| Pb 220.353 | 311.017 | 308.983 | 310.922 |
| Sb 206.834 | 5.9304 | 2.5960 | -3.2794 |
| Se 196.026 | 13.3675 | -2.0399 | 11.1223 |
| Sn 189.925 | 34.0795 | 30.1421 | 29.9617 |
| Sr 216.596 | 151.964 | 151.248 | 150.975 |
| Ti 334.941 | 899.855 | 901.189 | 900.765 |
| Tl 190.794 | -25.2124u | -24.2837u | -22.4621u |
| V 292.401 | 836.668 | 837.758 | 836.299 |
| Zn 206.200 | 604.398 | 599.802 | 599.111 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -2.2782 | ppb | 0.0688 | 3.0 | -225.928 |
| Al 308.215 | 167959 | ppb | 189.077 | 0.1 | 1113110 |
| As 188.980 | 602.677 | ppb | 5.2137 | 0.9 | 318.558 |
| B 249.678 | 23.5781 | ppb | 0.7946 | 3.4 | -1106.33 |
| Ba 389.178 | 746.593 | ppb | 0.4757 | 0.1 | 15462.6 |
| Be 313.042 | 12.2769 | ppb | 0.0140 | 0.1 | 19709.2 |
| Ca 370.602 | 54107 | ppb | 65.94 | 0.1 | 118772 |
| Cd 226.502 | -3.8613 | ppb | 0.2574 | 6.7 | 2420.57 |
| Co 228.615 | 138.722 | ppb | 0.7507 | 0.5 | 1510.35 |
| Cr 267.716 | 703.409 | ppb | 0.9379 | 0.1 | 35315.2 |
| Cu 324.754 | 125.939 | ppb | 0.4471 | 0.4 | 9367.40 |
| Fe 271.441 | 714330 | ppb | 822.232 | 0.1 | 1005989 |
| K 766.491 | 8224.01 | ppb | 8.2714 | 0.1 | 352133 |
| Mg 279.078 | 10521.0 | ppb | 8.9135 | 0.1 | 25228.6 |
| Mn 257.610 | 15989.9 | ppb | 38.3564 | 0.2 | 3308725 |
| Mo 202.032 | 24.7971 | ppb | 0.1181 | 0.5 | 128435 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 497.159 | ppb | 274.755 | 55.3 | -138.827 |
| Ni 231.604 | 94.5271 | ppb | 0.7071 | 0.7 | 311.343 |
| Pb 220.353 | 310.308 | ppb | 1.1481 | 0.4 | 400.692 |
| Sb 206.834 | 1.7490 | ppb | 4.6630 | 266.6 | 31.8975 |
| Se 196.026 | 7.4833 | ppb | 8.3234 | 111.2 | 14.1020 |
| Sn 189.925 | 31.3944 | ppb | 2.3271 | 7.4 | 15.2674 |
| Sr 216.596 | 151.396 | ppb | 0.5107 | 0.3 | 2436.30 |
| Ti 334.941 | 900.603 | ppb | 0.6816 | 0.1 | 249945 |
| Tl 190.794 | -23.9861 | ppb | 1.3991 | 5.8 | -106.448 |
| V 292.401 | 836.908 | ppb | 0.7585 | 0.1 | 21917.9 |
| Zn 206.200 | 601.104 | ppb | 2.8741 | 0.5 | 514.409 |

**680-106200-b-45-a (Samp)** **10/15/2014, 7:48:50 PM** **Rack 3, Tube 9**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -3.5944 | -3.4650 | -3.0011 |
| Al 308.215 | 118358 | 118440 | 118315 |
| As 188.980 | 347.705 | 353.850 | 349.852 |
| B 249.678 | 64.3009u | 65.4420u | 64.9234u |
| Ba 389.178 | 11708.4x | 11693.7x | 11689.1x |
| Be 313.042 | 15.0957 | 15.0968 | 15.0670 |
| Ca 370.602 | 257676 | 259156 | 259772 |
| Cd 226.502 | 4.2680 | 3.9381 | 4.2103 |
| Co 228.615 | 336.031 | 335.357 | 334.757 |
| Cr 267.716 | 359.892 | 359.321 | 360.406 |
| Cu 324.754 | 420.056 | 415.931 | 412.628 |
| Fe 271.441 | 515910 | 517311 | 518674 |
| K 766.491 | 12917.9 | 12922.1 | 12883.3 |
| Mg 279.078 | 80439.0 | 80520.1 | 80639.4 |
| Mn 257.610 | 79823.6x | 79680.2x | 79890.6x |
| Mo 202.032 | 78.3535 | 80.6586 | 79.0852 |
| Na 330.237 | 1062.55u | 1192.34u | 933.720u |
| Ni 231.604 | 228.710 | 227.613 | 230.514 |
| Pb 220.353 | 1036.25 | 1029.54 | 1039.20 |
| Sb 206.834 | 6.2508 | 5.4966 | 3.5224 |
| Se 196.026 | 23.1854 | 12.1642 | 8.7734 |
| Sn 189.925 | 72.2261 | 71.5436 | 63.2758 |
| Sr 216.596 | 485.836 | 485.799 | 487.761 |
| Ti 334.941 | 1841.11 | 1837.22 | 1834.58 |
| Tl 190.794 | 13.5498u | 14.0774u | 4.6480u |
| V 292.401 | 452.237 | 451.952 | 450.854 |
| Zn 206.200 | 1872.96 | 1877.85 | 1884.35 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -3.3535b | ppb | 0.3120 | 9.3 | 10.2844 |
| Al 308.215 | 118371b | ppb | 63.4612 | 0.1 | 784601 |
| As 188.980 | 350.469b | ppb | 3.1189 | 0.9 | 183.862 |
| B 249.678 | 64.8888b | ppb | 0.5714 | 0.9 | -68.2377 |
| Ba 389.178 | 11697.1xb | ppb | 10.0914 | 0.1 | 237543 |
| Be 313.042 | 15.0865b | ppb | 0.0169 | 0.1 | 24300.9 |
| Ca 370.602 | 258868b | ppb | 1077 | 0.4 | 595686 |
| Cd 226.502 | 4.1388b | ppb | 0.1762 | 4.3 | 2016.82 |
| Co 228.615 | 335.382b | ppb | 0.6378 | 0.2 | 3562.67 |

E10152014.wvq. All Data Report 10/16/2014, 1:56:04 PM

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 359.873b | ppb | 0.5424 | 0.2 | 18472.3 |
| Cu 324.754 | 416.205b | ppb | 3.7214 | 0.9 | 29651.6 |
| Fe 271.441 | 517298b | ppb | 1382.23 | 0.3 | 728536 |
| K 766.491 | 12907.8b | ppb | 21.3005 | 0.2 | 552496 |
| Mg 279.078 | 80532.8b | ppb | 100.819 | 0.1 | 194159 |
| Mn 257.610 | 79798.1xb | ppb | 107.467 | 0.1 | 16503696 |
| Mo 202.032 | 79.3658b | ppb | 1.1778 | 1.5 | 474.909 |
| Na 330.237 | 1062.87b | ppb | 129.308 | 12.2 | -99.0888 |
| Ni 231.604 | 228.946b | ppb | 1.4650 | 0.6 | 668.210 |
| Pb 220.353 | 1035.00b | ppb | 4.9526 | 0.5 | 1457.61 |
| Sb 206.834 | 5.0899b | ppb | 1.4089 | 27.7 | 25.9443 |
| Se 196.026 | 14.7077b | ppb | 7.5351 | 51.2 | 27.6921 |
| Sn 189.925 | 69.0152b | ppb | 4.9821 | 7.2 | 40.0028 |
| Sr 216.596 | 486.466b | ppb | 1.1222 | 0.2 | 5952.59 |
| Ti 334.941 | 1837.64b | ppb | 3.2868 | 0.2 | 510046 |
| Tl 190.794 | 10.7584b | ppb | 5.2984 | 49.2 | -19.8716 |
| V 292.401 | 451.681b | ppb | 0.7305 | 0.2 | 11883.8 |
| Zn 206.200 | 1878.38b | ppb | 5.7122 | 0.3 | 1675.13 |

**680-106200-b-44-a (Samp)** **10/15/2014, 7:53:08 PM** **Rack 3, Tube 10**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -1.3115u | -1.5718u | -1.5138u |
| Al 308.215 | 110371 | 110473 | 110469 |
| As 188.980 | 97.7645 | 93.0202 | 82.7573 |
| B 249.678 | 11.9005u | 12.2152u | 11.6712u |
| Ba 389.178 | 513.193 | 513.776 | 512.929 |
| Be 313.042 | 10.8286 | 10.8368 | 10.8410 |
| Ca 370.602 | 5034 | 5024 | 5031 |
| Cd 226.502 | -3.2114 | -3.1627 | -3.1374 |
| Co 228.615 | 89.2105 | 89.2717 | 89.5736 |
| Cr 267.716 | 192.658 | 192.505 | 192.216 |
| Cu 324.754 | 204.437 | 204.462 | 204.152 |
| Fe 271.441 | 281776 | 281990 | 281266 |
| K 766.491 | 12323.0 | 12356.0 | 12331.8 |
| Mg 279.078 | 2511.07 | 2512.63 | 2502.47 |
| Mn 257.610 | 2539.65 | 2540.83 | 2536.29 |
| Mo 202.032 | 12.7553 | 11.5212 | 12.5639 |
| Na 330.237 | 169.292u | 306.547u | 323.200u |
| Ni 231.604 | 86.5520 | 84.8203 | 85.0146 |
| Pb 220.353 | 130.773 | 130.069 | 126.421 |
| Sb 206.834 | 2.7750 | 2.1972 | -0.2569 |
| Se 196.026 | 0.8928 | -8.5713u | 6.1107 |
| Sn 189.925 | 18.3827 | 16.0487 | 19.0873 |
| Sr 216.596 | 99.5080 | 98.9760 | 99.1980 |
| Ti 334.941 | 325.821 | 325.937 | 325.913 |
| Tl 190.794 | -11.3174u | -3.0820u | -7.8678u |
| V 292.401 | 223.175 | 224.219 | 223.080 |
| Zn 206.200 | 200.849 | 199.295 | 198.538 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -1.4657 | ppb | 0.1366 | 9.3 | -158.084 |
| Al 308.215 | 110438 | ppb | 57.4119 | 0.1 | 731687 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 91.1807 | ppb | 7.6709 | 8.4 | 45.9489 |
| B 249.678 | 11.9289 | ppb | 0.2731 | 2.3 | -374.671 |
| Ba 389.178 | 513.299 | ppb | 0.4332 | 0.1 | 10503.8 |
| Be 313.042 | 10.8355 | ppb | 0.0063 | 0.1 | 17332.9 |
| Ca 370.602 | 5030 | ppb | 5.140 | 0.1 | 9060 |
| Cd 226.502 | -3.1705 | ppb | 0.0376 | 1.2 | 900.304 |
| Co 228.615 | 89.3519 | ppb | 0.1944 | 0.2 | 957.615 |
| Cr 267.716 | 192.460 | ppb | 0.2243 | 0.1 | 9715.62 |
| Cu 324.754 | 204.350 | ppb | 0.1721 | 0.1 | 14696.1 |
| Fe 271.441 | 281677 | ppb | 372.077 | 0.1 | 396692 |
| K 766.491 | 12336.9 | ppb | 17.0914 | 0.1 | 528077 |
| Mg 279.078 | 2508.72 | ppb | 5.4723 | 0.2 | 6029.67 |
| Mn 257.610 | 2538.92 | ppb | 2.3582 | 0.1 | 525889 |
| Mo 202.032 | 12.2801 | ppb | 0.6642 | 5.4 | 70.0406 |
| Na 330.237 | 266.346 | ppb | 84.4629 | 31.7 | -37.0282 |
| Ni 231.604 | 85.4623 | ppb | 0.9487 | 1.1 | 253.296 |
| Pb 220.353 | 129.088 | ppb | 2.3364 | 1.8 | 166.550 |
| Sb 206.834 | 1.5717 | ppb | 1.6098 | 102.4 | 13.4899 |
| Se 196.026 | -0.5226 | ppb | 7.4426 | 1424.1 | 5.1594 |
| Sn 189.925 | 17.8396 | ppb | 1.5904 | 8.9 | 6.3560 |
| Sr 216.596 | 99.2273 | ppb | 0.2672 | 0.3 | 1387.97 |
| Ti 334.941 | 325.890 | ppb | 0.0609 | 0.0 | 90408.0 |
| Tl 190.794 | -7.4224 | ppb | 4.1358 | 55.7 | -45.3585 |
| V 292.401 | 223.491 | ppb | 0.6317 | 0.3 | 5880.07 |
| Zn 206.200 | 199.561 | ppb | 1.1781 | 0.6 | 169.996 |

**680-106200-b-58-a (Samp)** **10/15/2014, 7:57:25 PM** **Rack 3, Tube 11**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.3553u | -0.4059u | -0.3949u |
| Al 308.215 | 99890.4 | 99834.5 | 99898.5 |
| As 188.980 | 211.866 | 208.385 | 201.108 |
| B 249.678 | 64.1433 | 63.9087 | 64.5368 |
| Ba 389.178 | 1133.96 | 1126.70 | 1133.13 |
| Be 313.042 | 11.9960 | 11.9853 | 11.9516 |
| Ca 370.602 | 760678 | 763436 | 764219 |
| Cd 226.502 | 3.6961 | 3.5591 | 3.9636 |
| Co 228.615 | 62.1709 | 62.2380 | 61.6517 |
| Cr 267.716 | 295.818 | 295.128 | 295.258 |
| Cu 324.754 | 414.116 | 412.464 | 408.827 |
| Fe 271.441 | 307671 | 307835 | 307462 |
| K 766.491 | 14581.6 | 14596.2 | 14538.2 |
| Mg 279.078 | 92408.4 | 92467.5 | 92655.3 |
| Mn 257.610 | 10061.1 | 10053.2 | 10028.4 |
| Mo 202.032 | 21.3403 | 21.1548 | 21.2019 |
| Na 330.237 | 1781.14u | 1727.60u | 1563.70u |
| Ni 231.604 | 234.445 | 232.932 | 235.887 |
| Pb 220.353 | 782.803 | 772.796 | 786.181 |
| Sb 206.834 | 6.8152 | 4.0389 | 10.1363 |
| Se 196.026 | 11.0477 | 3.7790 | -3.1938 |
| Sn 189.925 | 58.4174 | 61.4816 | 60.6849 |
| Sr 216.596 | 1149.25 | 1149.51 | 1149.10 |
| Ti 334.941 | 1431.49 | 1428.96 | 1427.66 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -12.5041u | -15.4255u | -9.5540u |
| V 292.401 | 315.635 | 315.199 | 314.309 |
| Zn 206.200 | 1706.20 | 1715.47 | 1717.62 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1485b | ppb | 0.4364 | 293.9 | -60.8981 |
| Al 308.215 | 99874.5b | ppb | 34.8425 | 0.0 | 661841 |
| As 188.980 | 207.120b | ppb | 5.4892 | 2.7 | 107.919 |
| B 249.678 | 64.1963b | ppb | 0.3174 | 0.5 | 360.568 |
| Ba 389.178 | 1131.26b | ppb | 3.9711 | 0.4 | 23164.3 |
| Be 313.042 | 11.9776b | ppb | 0.0232 | 0.2 | 19423.3 |
| Ca 370.602 | 762778b | ppb | 1860 | 0.2 | 1761025 |
| Cd 226.502 | 3.7396b | ppb | 0.2057 | 5.5 | 1254.01 |
| Co 228.615 | 62.0202b | ppb | 0.3209 | 0.5 | 695.756 |
| Cr 267.716 | 295.402b | ppb | 0.3666 | 0.1 | 14869.9 |
| Cu 324.754 | 411.802b | ppb | 2.7059 | 0.7 | 29255.9 |
| Fe 271.441 | 307656b | ppb | 186.947 | 0.1 | 433275 |
| K 766.491 | 14572.0b | ppb | 30.1609 | 0.2 | 623689 |
| Mg 279.078 | 92510.4b | ppb | 128.912 | 0.1 | 224554 |
| Mn 257.610 | 10047.6b | ppb | 17.1112 | 0.2 | 2079356 |
| Mo 202.032 | 21.2323b | ppb | 0.0964 | 0.5 | 124.226 |
| Na 330.237 | 1690.81b | ppb | 113.292 | 6.7 | -14.9057 |
| Ni 231.604 | 234.421b | ppb | 1.4774 | 0.6 | 667.998 |
| Pb 220.353 | 780.593b | ppb | 6.9605 | 0.9 | 1095.06 |
| Sb 206.834 | 6.9968b | ppb | 3.0527 | 43.6 | 22.3943 |
| Se 196.026 | 3.8776b | ppb | 7.1213 | 183.7 | 8.4971 |
| Sn 189.925 | 60.1947b | ppb | 1.5898 | 2.6 | 34.2041 |
| Sr 216.596 | 1149.29b | ppb | 0.2093 | 0.0 | 13145.9 |
| Ti 334.941 | 1429.37b | ppb | 1.9456 | 0.1 | 396756 |
| Tl 190.794 | -12.4945b | ppb | 2.9358 | 23.5 | -50.0215 |
| V 292.401 | 315.048b | ppb | 0.6759 | 0.2 | 8274.11 |
| Zn 206.200 | 1713.10b | ppb | 6.0724 | 0.4 | 1534.19 |

**680-106200-b-47-a (Samp)** **10/15/2014, 8:01:43 PM** **Rack 3, Tube 12**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -2.6152u | -2.1316u | -2.1352u |
| Al 308.215 | 121189 | 121196 | 121133 |
| As 188.980 | 1111.12 | 1114.31 | 1095.67 |
| B 249.678 | 22.1198u | 22.4229u | 22.5090u |
| Ba 389.178 | 1877.63 | 1880.30 | 1881.10 |
| Be 313.042 | 14.2609 | 14.2915 | 14.3077 |
| Ca 370.602 | 22970 | 22939 | 22962 |
| Cd 226.502 | -5.4727 | -5.1475 | -4.9267 |
| Co 228.615 | 182.605 | 179.871 | 181.890 |
| Cr 267.716 | 551.212 | 550.876 | 551.568 |
| Cu 324.754 | 125.272 | 125.010 | 125.264 |
| Fe 271.441 | 775460 | 779124 | 778213 |
| K 766.491 | 5408.73 | 5424.62 | 5410.75 |
| Mg 279.078 | 6736.61 | 6740.48 | 6735.80 |
| Mn 257.610 | 23501.3 | 23553.7 | 23555.0 |
| Mo 202.032 | 34.3847 | 33.6096 | 34.9030 |
| Na 330.237 | 328.050u | 623.507u | 361.389u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 85.9382 | 82.1013 | 81.1581 |
| Pb 220.353 | 405.065 | 416.236 | 405.784 |
| Sb 206.834 | 2.3443 | 0.2939 | -2.0161 |
| Se 196.026 | -4.4684 | -1.1826 | 0.8622 |
| Sn 189.925 | 29.9587 | 37.8335 | 29.9562 |
| Sr 216.596 | 140.221 | 141.142 | 140.872 |
| Ti 334.941 | 843.120 | 843.830 | 845.037 |
| Tl 190.794 | -19.3206u | -21.5164u | -23.4933u |
| V 292.401 | 710.744 | 712.066 | 711.159 |
| Zn 206.200 | 504.112 | 501.491 | 503.951 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -2.2940 | ppb | 0.2782 | 12.1 | -201.561 |
| Al 308.215 | 121173 | ppb | 34.3959 | 0.0 | 803601 |
| As 188.980 | 1107.03 | ppb | 9.9704 | 0.9 | 588.404 |
| B 249.678 | 22.3505 | ppb | 0.2044 | 0.9 | -1257.29 |
| Ba 389.178 | 1879.68 | ppb | 1.8195 | 0.1 | 38469.5 |
| Be 313.042 | 14.2867 | ppb | 0.0238 | 0.2 | 22956.3 |
| Ca 370.602 | 22957 | ppb | 15.93 | 0.1 | 46283 |
| Cd 226.502 | -5.1823 | ppb | 0.2747 | 5.3 | 2596.48 |
| Co 228.615 | 181.455 | ppb | 1.4180 | 0.8 | 1957.76 |
| Cr 267.716 | 551.218 | ppb | 0.3460 | 0.1 | 27825.1 |
| Cu 324.754 | 125.182 | ppb | 0.1487 | 0.1 | 9342.53 |
| Fe 271.441 | 777599 | ppb | 1907.31 | 0.2 | 1095092 |
| K 766.491 | 5414.70 | ppb | 8.6526 | 0.2 | 231956 |
| Mg 279.078 | 6737.63 | ppb | 2.5017 | 0.0 | 15913.5 |
| Mn 257.610 | 23536.7 | ppb | 30.6563 | 0.1 | 4869491 |
| Mo 202.032 | 34.2991 | ppb | 0.6509 | 1.9 | 184.670 |
| Na 330.237 | 437.648 | ppb | 161.819 | 37.0 | -154.004 |
| Ni 231.604 | 83.0659 | ppb | 2.5318 | 3.0 | 284.297 |
| Pb 220.353 | 409.028 | ppb | 6.2524 | 1.5 | 539.533 |
| Sb 206.834 | 0.2074 | ppb | 2.1815 | 1052.0 | 30.0173 |
| Se 196.026 | -1.5963 | ppb | 2.6893 | 168.5 | 12.5351 |
| Sn 189.925 | 32.5828 | ppb | 4.5472 | 14.0 | 16.0486 |
| Sr 216.596 | 140.745 | ppb | 0.4732 | 0.3 | 2377.21 |
| Ti 334.941 | 843.996 | ppb | 0.9692 | 0.1 | 234236 |
| Tl 190.794 | -21.4434 | ppb | 2.0873 | 9.7 | -108.209 |
| V 292.401 | 711.323 | ppb | 0.6760 | 0.1 | 18690.0 |
| Zn 206.200 | 503.185 | ppb | 1.4686 | 0.3 | 424.049 |

**Cont Calib Verif (CCV)** **10/15/2014, 8:06:00 PM** **Rack 3, Tube 13**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 484.530 | 484.803 | 486.562 |
| Al 308.215 | 4832.51 | 4833.28 | 4834.55 |
| As 188.980 | 460.179 | 453.701 | 456.300 |
| B 249.678 | 478.297 | 481.066 | 483.241 |
| Ba 389.178 | 4779.07 | 4782.14 | 4774.63 |
| Be 313.042 | 483.389 | 478.635 | 481.233 |
| Ca 370.602 | 4755 | 4752 | 4750 |
| Cd 226.502 | 478.765 | 479.200 | 479.639 |
| Co 228.615 | 486.774 | 486.497 | 487.383 |
| Cr 267.716 | 4801.62 | 4799.34 | 4796.90 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 5014.15 | 5028.68 | 5009.39 |
| Fe 271.441 | 4894.89 | 4904.23 | 4931.40 |
| K 766.491 | 10083.9 | 10108.7 | 10085.3 |
| Mg 279.078 | 4816.78 | 4825.64 | 4830.52 |
| Mn 257.610 | 4916.14 | 4914.16 | 4905.79 |
| Mo 202.032 | 481.939 | 484.833 | 485.880 |
| Na 330.237 | 7562.61 | 7620.95 | 7624.42 |
| Ni 231.604 | 2431.93 | 2424.29 | 2438.12 |
| Pb 220.353 | 484.679 | 483.399 | 482.923 |
| Sb 206.834 | 913.877 | 917.652 | 915.100 |
| Se 196.026 | 4789.19 | 4801.41 | 4768.01 |
| Sn 189.925 | 4803.22 | 4815.65 | 4824.53 |
| Sr 216.596 | 2366.08 | 2369.00 | 2374.49 |
| Ti 334.941 | 480.337 | 480.443 | 479.330 |
| Tl 190.794 | 4888.07 | 4894.49 | 4914.38 |
| V 292.401 | 4815.03 | 4813.08 | 4810.95 |
| Zn 206.200 | 2351.05 | 2366.24 | 2368.31 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 485.298 | ppb | 1.1028 | 0.2 | 37482.2 | 97.05967 |
| Al 308.215 | 4833.45 | ppb | 1.0305 | 0.0 | 32882.1 | 96.66898 |
| As 188.980 | 456.727 | ppb | 3.2600 | 0.7 | 242.518 | 91.34538 |
| B 249.678 | 480.868 | ppb | 2.4780 | 0.5 | 7308.69 | 96.17356 |
| Ba 389.178 | 4778.61 | ppb | 3.7745 | 0.1 | 96886.1 | 95.57226 |
| Be 313.042 | 481.086 | ppb | 2.3801 | 0.5 | 783049 | 96.21710 |
| Ca 370.602 | 4752 | ppb | 2.438 | 0.1 | 11255 | 95.04794 |
| Cd 226.502 | 479.201 | ppb | 0.4370 | 0.1 | 17964.6 | 95.84019 |
| Co 228.615 | 486.885 | ppb | 0.4532 | 0.1 | 5079.29 | 97.37695 |
| Cr 267.716 | 4799.29 | ppb | 2.3579 | 0.0 | 238155 | 95.98573 |
| Cu 324.754 | 5017.41 | ppb | 10.0522 | 0.2 | 352106 | 100.34814 |
| Fe 271.441 | 4910.17 | ppb | 18.9681 | 0.4 | 7017.91 | 98.20350 |
| K 766.491 | 10092.7 | ppb | 13.9083 | 0.1 | 432071 | 100.92657 |
| Mg 279.078 | 4824.31 | ppb | 6.9689 | 0.1 | 11647.4 | 96.48623 |
| Mn 257.610 | 4912.03 | ppb | 5.4906 | 0.1 | 1015858 | 98.24062 |
| Mo 202.032 | 484.217 | ppb | 2.0415 | 0.4 | 2997.80 | 96.84350 |
| Na 330.237 | 7602.66 | ppb | 34.7272 | 0.5 | 325.247 | 101.36878 |
| Ni 231.604 | 2431.45 | ppb | 6.9304 | 0.3 | 6730.04 | 97.25793 |
| Pb 220.353 | 483.667 | ppb | 0.9085 | 0.2 | 693.257 | 96.73339 |
| Sb 206.834 | 915.543 | ppb | 1.9262 | 0.2 | 1252.33 | 91.55428 |
| Se 196.026 | 4786.20 | ppb | 16.8973 | 0.4 | 1846.47 | 95.72404 |
| Sn 189.925 | 4814.47 | ppb | 10.7032 | 0.2 | 3160.07 | 96.28934 |
| Sr 216.596 | 2369.86 | ppb | 4.2701 | 0.2 | 25836.8 | 94.79436 |
| Ti 334.941 | 480.037 | ppb | 0.6142 | 0.1 | 133148 | 96.00741 |
| Tl 190.794 | 4898.98 | ppb | 13.7158 | 0.3 | 4791.58 | 97.97955 |
| V 292.401 | 4813.02 | ppb | 2.0400 | 0.0 | 124464 | 96.26046 |
| Zn 206.200 | 2361.86 | ppb | 9.4251 | 0.4 | 2119.45 | 94.47450 |

**Cont Calib Blank (CCB)** **10/15/2014, 8:10:17 PM** **Rack 3, Tube 14**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1454 | 0.1299 | 0.1577 |
| Al 308.215 | 10.3649 | 10.6936 | 12.2536 |
| As 188.980 | 1.8960 | 4.5777 | -1.5862u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 8.6680 | 7.8217 | 6.6988 |
| Ba 389.178 | 0.6197 | 1.4675 | 0.5883 |
| Be 313.042 | 0.0692 | 0.0673 | 0.0916 |
| Ca 370.602 | 6.342 | 8.861 | 9.552 |
| Cd 226.502 | 0.0708 | 0.0651 | 0.0484 |
| Co 228.615 | -0.2243u | -0.6429u | -0.2890u |
| Cr 267.716 | 0.7269 | 0.7527 | 0.9354 |
| Cu 324.754 | 0.7953 | 0.5078 | 0.9566 |
| Fe 271.441 | 22.5046 | 23.0414 | 39.1119 |
| K 766.491 | 0.0900 | -0.9559u | -0.1652u |
| Mg 279.078 | 1.9139 | 1.5345 | 1.8418 |
| Mn 257.610 | 1.7190 | 1.6434 | 2.0710 |
| Mo 202.032 | 1.2739 | 0.3350 | 0.4035 |
| Na 330.237 | -132.656u | -100.494u | -74.5755u |
| Ni 231.604 | 1.4365 | 0.1802 | 1.0868 |
| Pb 220.353 | -0.4873u | 0.5682 | -0.5564u |
| Sb 206.834 | 2.1963 | 5.4168 | 4.9976 |
| Se 196.026 | 13.7475 | 2.8851 | 8.8614 |
| Sn 189.925 | 2.3213 | 1.7109 | 0.6859 |
| Sr 216.596 | 0.4841 | 0.8397 | 0.2612 |
| Ti 334.941 | 0.3018 | 0.2115 | 0.2666 |
| Tl 190.794 | 0.8165 | 3.9869 | 3.0370 |
| V 292.401 | 0.8186 | 0.7362 | 0.9670 |
| Zn 206.200 | 2.1141 | -0.2251u | 0.5931 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.1443 | ppb | 0.0139 | 9.7 | 0.6916 | 0.14433 |
| Al 308.215 | 11.1041 | ppb | 1.0090 | 9.1 | 468.013 | 11.10405 |
| As 188.980 | 1.6292 | ppb | 3.0906 | 189.7 | -1.5381 | 1.62915 |
| B 249.678 | 7.7295 | ppb | 0.9879 | 12.8 | 152.348 | 7.72949 |
| Ba 389.178 | 0.8918 | ppb | 0.4988 | 55.9 | -32.6774 | 0.89183 |
| Be 313.042 | 0.0760 | ppb | 0.0135 | 17.7 | -193.292 | 0.07604 |
| Ca 370.602 | 8.252 | ppb | 1.690 | 20.5 | 30.07 | 8.25188 |
| Cd 226.502 | 0.0614 | ppb | 0.0117 | 19.0 | 15.6039 | 0.06144 |
| Co 228.615 | -0.3854 | ppb | 0.2253 | 58.5 | -0.8715 | -0.38541 |
| Cr 267.716 | 0.8050 | ppb | 0.1137 | 14.1 | 71.0892 | 0.80502 |
| Cu 324.754 | 0.7532 | ppb | 0.2274 | 30.2 | 302.746 | 0.75322 |
| Fe 271.441 | 28.2193 | ppb | 9.4371 | 33.4 | 46.5666 | 28.21930Z |
| K 766.491 | -0.3437 | ppb | 0.5453 | 158.7 | 310.379 | -0.34372 |
| Mg 279.078 | 1.7634 | ppb | 0.2015 | 11.4 | 23.1785 | 1.76341 |
| Mn 257.610 | 1.8112 | ppb | 0.2282 | 12.6 | 415.309 | 1.81115 |
| Mo 202.032 | 0.6708 | ppb | 0.5235 | 78.0 | 10.4246 | 0.67079 |
| Na 330.237 | -102.575 | ppb | 29.0959 | 28.4 | 17.1136 | -102.57521 |
| Ni 231.604 | 0.9012 | ppb | 0.6484 | 72.0 | -2.2780 | 0.90118 |
| Pb 220.353 | -0.1585 | ppb | 0.6302 | 397.6 | 0.2080 | -0.15849 |
| Sb 206.834 | 4.2036 | ppb | 1.7509 | 41.7 | 6.6639 | 4.20355 |
| Se 196.026 | 8.4980 | ppb | 5.4403 | 64.0 | 6.0125 | 8.49801 |
| Sn 189.925 | 1.5727 | ppb | 0.8264 | 52.5 | -4.3388 | 1.57267 |
| Sr 216.596 | 0.5283 | ppb | 0.2918 | 55.2 | 8.1642 | 0.52834 |
| Ti 334.941 | 0.2600 | ppb | 0.0455 | 17.5 | 10.2672 | 0.25997 |
| Tl 190.794 | 2.6135 | ppb | 1.6271 | 62.3 | -3.4104 | 2.61349 |
| V 292.401 | 0.8406 | ppb | 0.1170 | 13.9 | 14.5676 | 0.84061 |
| Zn 206.200 | 0.8274 | ppb | 1.1870 | 143.5 | 1.9498 | 0.82736 |

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**680-106200-a-59-a (Samp)** **10/15/2014, 8:14:35 PM** **Rack 3, Tube 15**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -3.2203u | -3.4715u | -3.7044u |
| Al 308.215 | 147356 | 147658 | 147223 |
| As 188.980 | 448.655 | 453.254 | 453.814 |
| B 249.678 | 24.9419u | 27.6246u | 27.0417u |
| Ba 389.178 | 2532.44 | 2528.52 | 2527.13 |
| Be 313.042 | 17.7731 | 17.6853 | 17.7067 |
| Ca 370.602 | 55414 | 55054 | 55171 |
| Cd 226.502 | -4.2515 | -2.6888 | -3.4548 |
| Co 228.615 | 241.728 | 244.229 | 246.801 |
| Cr 267.716 | 535.209 | 533.513 | 533.263 |
| Cu 324.754 | 139.135 | 139.659 | 141.505 |
| Fe 271.441 | 726224 | 720951 | 723225 |
| K 766.491 | 9062.45 | 9083.64 | 9062.61 |
| Mg 279.078 | 13159.3 | 13153.1 | 13134.7 |
| Mn 257.610 | 34880.4x | 34746.8x | 34376.8x |
| Mo 202.032 | 26.6637 | 25.3369 | 26.8584 |
| Na 330.237 | 487.436u | 349.949u | 724.179u |
| Ni 231.604 | 111.787 | 111.492 | 110.566 |
| Pb 220.353 | 585.915 | 579.993 | 588.644 |
| Sb 206.834 | 2.7743 | 5.0116 | 8.4582 |
| Se 196.026 | 12.8282 | -13.8629 | 6.1679 |
| Sn 189.925 | 32.9871 | 26.1960 | 31.5800 |
| Sr 216.596 | 230.066 | 228.039 | 228.256 |
| Ti 334.941 | 1093.72 | 1092.97 | 1089.94 |
| Tl 190.794 | -16.6890u | -19.8247u | -23.0848u |
| V 292.401 | 877.263 | 874.224 | 873.048 |
| Zn 206.200 | 896.991 | 888.961 | 898.516 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -3.4654b | ppb | 0.2421 | 7.0 | -233.678 |
| Al 308.215 | 147413b | ppb | 223.173 | 0.2 | 977161 |
| As 188.980 | 451.908b | ppb | 2.8310 | 0.6 | 237.460 |
| B 249.678 | 26.5360b | ppb | 1.4110 | 5.3 | -1077.76 |
| Ba 389.178 | 2529.36b | ppb | 2.7544 | 0.1 | 51626.7 |
| Be 313.042 | 17.7217b | ppb | 0.0458 | 0.3 | 28567.9 |
| Ca 370.602 | 55213b | ppb | 183.7 | 0.3 | 121706 |
| Cd 226.502 | -3.4650b | ppb | 0.7814 | 22.6 | 2462.98 |
| Co 228.615 | 244.252b | ppb | 2.5369 | 1.0 | 2613.36 |
| Cr 267.716 | 533.995b | ppb | 1.0589 | 0.2 | 26994.7 |
| Cu 324.754 | 140.100b | ppb | 1.2449 | 0.9 | 10363.3 |
| Fe 271.441 | 723466b | ppb | 2645.02 | 0.4 | 1018867 |
| K 766.491 | 9069.57b | ppb | 12.1878 | 0.1 | 388305 |
| Mg 279.078 | 13149.0b | ppb | 12.8070 | 0.1 | 31276.9 |
| Mn 257.610 | 34668.0xb | ppb | 260.858 | 0.8 | 7171250 |
| Mo 202.032 | 26.2863b | ppb | 0.8280 | 3.1 | 137.284 |
| Na 330.237 | 520.521b | ppb | 189.296 | 36.4 | -147.239 |
| Ni 231.604 | 111.282b | ppb | 0.6374 | 0.6 | 358.104 |
| Pb 220.353 | 584.851b | ppb | 4.4226 | 0.8 | 795.171 |
| Sb 206.834 | 5.4147b | ppb | 2.8633 | 52.9 | 35.1740 |
| Se 196.026 | 1.7111b | ppb | 13.8925 | 811.9 | 15.5174 |
| Sn 189.925 | 30.2543b | ppb | 3.5844 | 11.8 | 14.5178 |
| Sr 216.596 | 228.787b | ppb | 1.1129 | 0.5 | 3289.96 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 1092.21b | ppb | 2.0018 | 0.2 | 303118 |
| Tl 190.794 | -19.8662b | ppb | 3.1981 | 16.1 | -94.5358 |
| V 292.401 | 874.845b | ppb | 2.1751 | 0.2 | 22913.8 |
| Zn 206.200 | 894.823b | ppb | 5.1332 | 0.6 | 779.533 |

**680-106200-b-62-a (Samp)** **10/15/2014, 8:18:52 PM** **Rack 3, Tube 16**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.5732u | 0.1512u | -0.6575u |
| Al 308.215 | 64828.1 | 64789.6 | 64916.1 |
| As 188.980 | 134.054 | 130.608 | 127.306 |
| B 249.678 | 50.9307 | 49.9846 | 50.6507 |
| Ba 389.178 | 778.597 | 777.552 | 777.770 |
| Be 313.042 | 4.6383 | 4.6324 | 4.6310 |
| Ca 370.602 | 1439856x | 1439303x | 1441922x |
| Cd 226.502 | 3.4681 | 3.4539 | 3.0632 |
| Co 228.615 | 47.3521 | 47.7950 | 48.5704 |
| Cr 267.716 | 257.333 | 257.533 | 257.418 |
| Cu 324.754 | 282.333 | 284.590 | 279.547 |
| Fe 271.441 | 209787 | 210049 | 209979 |
| K 766.491 | 10913.4 | 10903.0 | 10894.4 |
| Mg 279.078 | 773776 | 774061 | 776616 |
| Mn 257.610 | 10130.0 | 10103.1 | 10104.7 |
| Mo 202.032 | 19.4089 | 20.4938 | 20.1857 |
| Na 330.237 | 1702.61 | 1894.98 | 1508.45u |
| Ni 231.604 | 137.875 | 135.175 | 136.282 |
| Pb 220.353 | 440.013 | 431.553 | 434.249 |
| Sb 206.834 | 3.7806 | 0.8410 | 13.2506 |
| Se 196.026 | 8.3338 | 5.4979 | 15.2742 |
| Sn 189.925 | 34.5277 | 30.6101 | 38.1389 |
| Sr 216.596 | 502.818 | 503.156 | 502.282 |
| Ti 334.941 | 1223.93 | 1225.65 | 1226.57 |
| Tl 190.794 | -12.8028u | -9.4781u | -13.1041u |
| V 292.401 | 211.728 | 212.925 | 211.788 |
| Zn 206.200 | 1153.35 | 1159.74 | 1155.82 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.3599b | ppb | 0.4446 | 123.5 | -54.4822 |
| Al 308.215 | 64844.6b | ppb | 64.8525 | 0.1 | 429863 |
| As 188.980 | 130.656b | ppb | 3.3747 | 2.6 | 67.1199 |
| B 249.678 | 50.5220b | ppb | 0.4860 | 1.0 | 360.000 |
| Ba 389.178 | 777.973b | ppb | 0.5512 | 0.1 | 16813.5 |
| Be 313.042 | 4.6339b | ppb | 0.0039 | 0.1 | 7643.29 |
| Ca 370.602 | 1440360xb | ppb | 1380 | 0.1 | 3328265 |
| Cd 226.502 | 3.3284b | ppb | 0.2298 | 6.9 | 896.015 |
| Co 228.615 | 47.9059b | ppb | 0.6167 | 1.3 | 538.673 |
| Cr 267.716 | 257.428b | ppb | 0.1002 | 0.0 | 12943.0 |
| Cu 324.754 | 282.157b | ppb | 2.5261 | 0.9 | 20123.8 |
| Fe 271.441 | 209938b | ppb | 135.859 | 0.1 | 295661 |
| K 766.491 | 10903.6b | ppb | 9.4872 | 0.1 | 466760 |
| Mg 279.078 | 774818b | ppb | 1563.54 | 0.2 | 1882236 |
| Mn 257.610 | 10112.6b | ppb | 15.0916 | 0.1 | 2097509 |
| Mo 202.032 | 20.0295b | ppb | 0.5591 | 2.8 | 121077 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 1702.01b | ppb | 193.268 | 11.4 | 23.0246 |
| Ni 231.604 | 136.444b | ppb | 1.3576 | 1.0 | 389.101 |
| Pb 220.353 | 435.272b | ppb | 4.3219 | 1.0 | 609.104 |
| Sb 206.834 | 5.9574b | ppb | 6.4848 | 108.9 | 17.6608 |
| Se 196.026 | 9.7020b | ppb | 5.0297 | 51.8 | 10.0034 |
| Sn 189.925 | 34.4256b | ppb | 3.7654 | 10.9 | 17.2615 |
| Sr 216.596 | 502.752b | ppb | 0.4407 | 0.1 | 6203.66 |
| Ti 334.941 | 1225.39b | ppb | 1.3418 | 0.1 | 341285 |
| Tl 190.794 | -11.7950b | ppb | 2.0121 | 17.1 | -37.6895 |
| V 292.401 | 212.147b | ppb | 0.6744 | 0.3 | 5578.80 |
| Zn 206.200 | 1156.31b | ppb | 3.2252 | 0.3 | 1035.73 |

**680-106200-b-15-a (Samp)** **10/15/2014, 8:23:09 PM** **Rack 3, Tube 17**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -2.8773u | -3.4636u | -2.9687u |
| Al 308.215 | 114601 | 114680 | 114490 |
| As 188.980 | 280.536 | 285.466 | 278.431 |
| B 249.678 | 29.3572u | 29.1959u | 30.2659u |
| Ba 389.178 | 1505.51 | 1504.88 | 1497.95 |
| Be 313.042 | 9.1429 | 9.1267 | 9.0994 |
| Ca 370.602 | 56812 | 56644 | 56578 |
| Cd 226.502 | 2.2180 | 2.9108 | 3.0662 |
| Co 228.615 | 138.942 | 139.650 | 138.862 |
| Cr 267.716 | 281.187 | 281.053 | 280.756 |
| Cu 324.754 | 355.735 | 360.880 | 358.921 |
| Fe 271.441 | 304768 | 305587 | 304472 |
| K 766.491 | 7844.60 | 7858.17 | 7833.64 |
| Mg 279.078 | 12093.1 | 12098.6 | 12125.9 |
| Mn 257.610 | 7392.01 | 7431.11 | 7395.80 |
| Mo 202.032 | 16.3773 | 16.9804 | 16.0165 |
| Na 330.237 | 791.787u | 873.700u | 825.659u |
| Ni 231.604 | 133.174 | 131.726 | 131.005 |
| Pb 220.353 | 1094.55 | 1089.58 | 1085.46 |
| Sb 206.834 | 3.8566 | 5.5624 | 3.0127 |
| Se 196.026 | 9.9967 | 7.6039 | 4.9303 |
| Sn 189.925 | 95.6791 | 97.9309 | 93.2405 |
| Sr 216.596 | 264.503 | 265.365 | 266.124 |
| Ti 334.941 | 1140.62 | 1140.95 | 1135.61 |
| Tl 190.794 | -3.0779u | -9.1056u | -5.9064u |
| V 292.401 | 417.744 | 416.864 | 416.590 |
| Zn 206.200 | 1977.72 | 1982.54 | 1986.84 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -3.1032 | ppb | 0.3154 | 10.2 | -270.460 |
| Al 308.215 | 114590 | ppb | 95.2946 | 0.1 | 759224 |
| As 188.980 | 281.478 | ppb | 3.6107 | 1.3 | 147.955 |
| B 249.678 | 29.6063 | ppb | 0.5768 | 1.9 | -155.206 |
| Ba 389.178 | 1502.78 | ppb | 4.1893 | 0.3 | 30595.7 |
| Be 313.042 | 9.1230 | ppb | 0.0220 | 0.2 | 14567.6 |
| Ca 370.602 | 56678 | ppb | 120.8 | 0.2 | 128623 |
| Cd 226.502 | 2.7316 | ppb | 0.4516 | 16.5 | 1202.83 |
| Co 228.615 | 139.151 | ppb | 0.4334 | 0.3 | 1493.37 |

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| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 280.998 | ppb | 0.2206 | 0.1 | 14140.3 |
| Cu 324.754 | 358.512 | ppb | 2.5966 | 0.7 | 25515.3 |
| Fe 271.441 | 304942 | ppb | 577.540 | 0.2 | 429463 |
| K 766.491 | 7845.47 | ppb | 12.2916 | 0.2 | 335940 |
| Mg 279.078 | 12105.8 | ppb | 17.6001 | 0.1 | 29255.1 |
| Mn 257.610 | 7406.31 | ppb | 21.5627 | 0.3 | 1532559 |
| Mo 202.032 | 16.4581 | ppb | 0.4870 | 3.0 | 94.7301 |
| Na 330.237 | 830.382 | ppb | 41.1603 | 5.0 | -61.2933 |
| Ni 231.604 | 131.968 | ppb | 1.1048 | 0.8 | 383.758 |
| Pb 220.353 | 1089.86 | ppb | 4.5544 | 0.4 | 1535.70 |
| Sb 206.834 | 4.1439 | ppb | 1.2989 | 31.3 | 18.4468 |
| Se 196.026 | 7.5103 | ppb | 2.5345 | 33.7 | 9.3568 |
| Sn 189.925 | 95.6169 | ppb | 2.3458 | 2.5 | 57.4933 |
| Sr 216.596 | 265.331 | ppb | 0.8110 | 0.3 | 3243.59 |
| Ti 334.941 | 1139.06 | ppb | 2.9886 | 0.3 | 316066 |
| Tl 190.794 | -6.0299 | ppb | 3.0157 | 50.0 | -44.1226 |
| V 292.401 | 417.066 | ppb | 0.6034 | 0.1 | 10913.0 |
| Zn 206.200 | 1982.37 | ppb | 4.5642 | 0.2 | 1777.29 |

**680-106200-b-42-a (Samp)** **10/15/2014, 8:27:26 PM** **Rack 3, Tube 18**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -2.3133u | -1.7390u | -1.8565u |
| Al 308.215 | 135413 | 135215 | 135185 |
| As 188.980 | 186.878 | 204.366 | 187.458 |
| B 249.678 | 17.9197u | 17.7209u | 17.0494u |
| Ba 389.178 | 1060.23 | 1060.00 | 1061.93 |
| Be 313.042 | 12.3366 | 12.3295 | 12.3202 |
| Ca 370.602 | 45949 | 46055 | 45923 |
| Cd 226.502 | -2.4748 | -3.1853 | -2.7664 |
| Co 228.615 | 204.947 | 203.826 | 203.810 |
| Cr 267.716 | 405.168 | 405.567 | 405.133 |
| Cu 324.754 | 227.557 | 227.862 | 226.233 |
| Fe 271.441 | 508742 | 511016 | 508997 |
| K 766.491 | 10804.2 | 10796.2 | 10811.1 |
| Mg 279.078 | 13396.4 | 13374.2 | 13350.1 |
| Mn 257.610 | 14716.4 | 14780.7 | 14744.5 |
| Mo 202.032 | 20.1483 | 21.2569 | 21.0367 |
| Na 330.237 | 461.071u | 485.976u | 505.929u |
| Ni 231.604 | 97.4155 | 96.9722 | 96.3933 |
| Pb 220.353 | 479.213 | 474.106 | 474.180 |
| Sb 206.834 | -4.0991 | 1.8704 | 2.9209 |
| Se 196.026 | 1.7602 | -18.9200u | -11.1449 |
| Sn 189.925 | 27.4264 | 32.8711 | 26.1008 |
| Sr 216.596 | 129.310 | 130.748 | 129.680 |
| Ti 334.941 | 555.941 | 555.250 | 555.542 |
| Tl 190.794 | -12.2857u | -13.3976u | -14.8880u |
| V 292.401 | 599.582 | 599.683 | 601.125 |
| Zn 206.200 | 654.253 | 659.730 | 657.628 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -1.9696 | ppb | 0.3034 | 15.4 | -175.824 |
| Al 308.215 | 135271 | ppb | 123.943 | 0.1 | 896433 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 192.900 | ppb | 9.9335 | 5.1 | 99.5270 |
| B 249.678 | 17.5633 | ppb | 0.4560 | 2.6 | -767.021 |
| Ba 389.178 | 1060.72 | ppb | 1.0553 | 0.1 | 21734.3 |
| Be 313.042 | 12.3288 | ppb | 0.0082 | 0.1 | 19784.4 |
| Ca 370.602 | 45976 | ppb | 69.57 | 0.2 | 101828 |
| Cd 226.502 | -2.8088 | ppb | 0.3572 | 12.7 | 1727.20 |
| Co 228.615 | 204.195 | ppb | 0.6516 | 0.3 | 2172.55 |
| Cr 267.716 | 405.289 | ppb | 0.2411 | 0.1 | 20427.6 |
| Cu 324.754 | 227.217 | ppb | 0.8657 | 0.4 | 16389.1 |
| Fe 271.441 | 509585 | ppb | 1246.04 | 0.2 | 717660 |
| K 766.491 | 10803.8 | ppb | 7.4593 | 0.1 | 462494 |
| Mg 279.078 | 13373.6 | ppb | 23.1905 | 0.2 | 32193.1 |
| Mn 257.610 | 14747.2 | ppb | 32.2489 | 0.2 | 3051192 |
| Mo 202.032 | 20.8140 | ppb | 0.5869 | 2.8 | 112.770 |
| Na 330.237 | 484.325 | ppb | 22.4746 | 4.6 | -91.9796 |
| Ni 231.604 | 96.9270 | ppb | 0.5126 | 0.5 | 302.183 |
| Pb 220.353 | 475.833 | ppb | 2.9273 | 0.6 | 649.202 |
| Sb 206.834 | 0.2307 | ppb | 3.7864 | 1641.2 | 20.6660 |
| Se 196.026 | -9.4349 | ppb | 10.4456 | 110.7 | 5.7917 |
| Sn 189.925 | 28.7994 | ppb | 3.5879 | 12.5 | 13.5616 |
| Sr 216.596 | 129.913 | ppb | 0.7466 | 0.6 | 1979.75 |
| Ti 334.941 | 555.577 | ppb | 0.3469 | 0.1 | 154187 |
| Tl 190.794 | -13.5238 | ppb | 1.3057 | 9.7 | -72.3021 |
| V 292.401 | 600.130 | ppb | 0.8632 | 0.1 | 15716.2 |
| Zn 206.200 | 657.204 | ppb | 2.7632 | 0.4 | 573.624 |

**680-106200-b-6-a (Samp)** **10/15/2014, 8:31:44 PM** **Rack 3, Tube 19**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -2.1168u | -1.8702u | -2.4626u |
| Al 308.215 | 145012 | 145287 | 145017 |
| As 188.980 | 306.668 | 323.491 | 309.572 |
| B 249.678 | 34.7249u | 35.7578u | 36.6618u |
| Ba 389.178 | 1836.42 | 1842.27 | 1835.00 |
| Be 313.042 | 11.4116 | 11.4116 | 11.3727 |
| Ca 370.602 | 131257 | 130848 | 130400 |
| Cd 226.502 | 2.5100 | 3.5278 | 3.4853 |
| Co 228.615 | 145.522 | 144.017 | 143.740 |
| Cr 267.716 | 322.460 | 322.180 | 322.222 |
| Cu 324.754 | 400.112 | 400.987 | 399.911 |
| Fe 271.441 | 432021 | 433436 | 432009 |
| K 766.491 | 9347.16 | 9356.75 | 9330.31 |
| Mg 279.078 | 18014.7 | 18034.4 | 18003.1 |
| Mn 257.610 | 11006.6 | 11070.2 | 11024.2 |
| Mo 202.032 | 23.4795 | 22.9731 | 23.0231 |
| Na 330.237 | 967.688u | 1008.52u | 1163.64u |
| Ni 231.604 | 134.831 | 134.569 | 138.121 |
| Pb 220.353 | 1185.07 | 1195.22 | 1192.94 |
| Sb 206.834 | 3.9123 | 10.1876 | 11.8681 |
| Se 196.026 | 9.1525 | 8.3440 | 5.3342 |
| Sn 189.925 | 95.2235 | 90.1236 | 102.465 |
| Sr 216.596 | 343.450 | 345.063 | 341.768 |
| Ti 334.941 | 1412.45 | 1413.33 | 1409.07 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -11.7778u | -11.1055u | -15.2800u |
| V 292.401 | 595.187 | 595.493 | 595.332 |
| Zn 206.200 | 2221.51 | 2213.88 | 2222.09 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -2.1499 | ppb | 0.2976 | 13.8 | -201.901 |
| Al 308.215 | 145105 | ppb | 157.229 | 0.1 | 961383 |
| As 188.980 | 313.244 | ppb | 8.9922 | 2.9 | 164.578 |
| B 249.678 | 35.7148 | ppb | 0.9691 | 2.7 | -331.320 |
| Ba 389.178 | 1837.90 | ppb | 3.8528 | 0.2 | 37464.1 |
| Be 313.042 | 11.3986 | ppb | 0.0224 | 0.2 | 18299.9 |
| Ca 370.602 | 130835 | ppb | 428.7 | 0.3 | 298975 |
| Cd 226.502 | 3.1744 | ppb | 0.5758 | 18.1 | 1676.81 |
| Co 228.615 | 144.426 | ppb | 0.9586 | 0.7 | 1561.44 |
| Cr 267.716 | 322.288 | ppb | 0.1513 | 0.0 | 16260.6 |
| Cu 324.754 | 400.337 | ppb | 0.5719 | 0.1 | 28499.4 |
| Fe 271.441 | 432489 | ppb | 820.565 | 0.2 | 609083 |
| K 766.491 | 9344.74 | ppb | 13.3860 | 0.1 | 400076 |
| Mg 279.078 | 18017.4 | ppb | 15.8371 | 0.1 | 43540.0 |
| Mn 257.610 | 11033.6 | ppb | 32.8388 | 0.3 | 2283069 |
| Mo 202.032 | 23.1585 | ppb | 0.2791 | 1.2 | 130.557 |
| Na 330.237 | 1046.61 | ppb | 103.379 | 9.9 | -87.4331 |
| Ni 231.604 | 135.840 | ppb | 1.9795 | 1.5 | 404.251 |
| Pb 220.353 | 1191.08 | ppb | 5.3219 | 0.4 | 1672.48 |
| Sb 206.834 | 8.6560 | ppb | 4.1932 | 48.4 | 28.5736 |
| Se 196.026 | 7.6103 | ppb | 2.0121 | 26.4 | 11.0633 |
| Sn 189.925 | 95.9373 | ppb | 6.2016 | 6.5 | 57.7039 |
| Sr 216.596 | 343.427 | ppb | 1.6477 | 0.5 | 4258.71 |
| Ti 334.941 | 1411.62 | ppb | 2.2499 | 0.2 | 391723 |
| Tl 190.794 | -12.7211 | ppb | 2.2414 | 17.6 | -64.1362 |
| V 292.401 | 595.337 | ppb | 0.1531 | 0.0 | 15580.3 |
| Zn 206.200 | 2219.16 | ppb | 4.5828 | 0.2 | 1985.92 |

**680-106200-b-57-a (Samp)** **10/15/2014, 8:36:02 PM** **Rack 3, Tube 20**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -1.1984u | -0.1227u | -1.0552u |
| Al 308.215 | 100362 | 100297 | 100287 |
| As 188.980 | 76.0023 | 81.2578 | 80.0851 |
| B 249.678 | 10.7894u | 10.1753u | 10.7884u |
| Ba 389.178 | 492.175 | 492.158 | 493.014 |
| Be 313.042 | 9.8722 | 9.8835 | 9.9041 |
| Ca 370.602 | 4559 | 4570 | 4575 |
| Cd 226.502 | -2.9180 | -2.9002 | -3.2772 |
| Co 228.615 | 22.9287 | 22.4500 | 23.0075 |
| Cr 267.716 | 143.302 | 143.350 | 143.862 |
| Cu 324.754 | 264.640 | 267.021 | 267.777 |
| Fe 271.441 | 310784 | 311427 | 312062 |
| K 766.491 | 10278.1 | 10281.8 | 10292.8 |
| Mg 279.078 | 2949.60 | 2945.81 | 2953.78 |
| Mn 257.610 | 2829.71 | 2825.99 | 2840.76 |
| Mo 202.032 | 10.8051 | 10.6260 | 10.3109 |
| Na 330.237 | 306.810u | 361.722u | 165.950u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 36.2638 | 34.4520 | 33.5989 |
| Pb 220.353 | 271.296 | 270.438 | 271.821 |
| Sb 206.834 | 2.9207 | 1.1530 | 1.4336 |
| Se 196.026 | 1.8097 | -3.0729 | 6.7269 |
| Sn 189.925 | 18.9175 | 23.5279 | 16.7623 |
| Sr 216.596 | 72.6153 | 72.7450 | 72.1919 |
| Ti 334.941 | 354.531 | 355.175 | 356.274 |
| Tl 190.794 | -11.1825u | -9.0383u | -6.9476u |
| V 292.401 | 278.237 | 279.190 | 280.166 |
| Zn 206.200 | 362.915 | 354.706 | 360.328 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.7921 | ppb | 0.5841 | 73.7 | -108.433 |
| Al 308.215 | 100316 | ppb | 40.6750 | 0.0 | 664762 |
| As 188.980 | 79.1151 | ppb | 2.7588 | 3.5 | 39.2343 |
| B 249.678 | 10.5843 | ppb | 0.3543 | 3.3 | -457.418 |
| Ba 389.178 | 492.449 | ppb | 0.4896 | 0.1 | 10096.4 |
| Be 313.042 | 9.8866 | ppb | 0.0161 | 0.2 | 15789.1 |
| Ca 370.602 | 4568 | ppb | 8.648 | 0.2 | 7720 |
| Cd 226.502 | -3.0318 | ppb | 0.2127 | 7.0 | 1011.80 |
| Co 228.615 | 22.7954 | ppb | 0.3017 | 1.3 | 266.653 |
| Cr 267.716 | 143.505 | ppb | 0.3103 | 0.2 | 7300.12 |
| Cu 324.754 | 266.479 | ppb | 1.6375 | 0.6 | 19065.0 |
| Fe 271.441 | 311424 | ppb | 639.317 | 0.2 | 438577 |
| K 766.491 | 10284.2 | ppb | 7.6521 | 0.1 | 440264 |
| Mg 279.078 | 2949.73 | ppb | 3.9862 | 0.1 | 7099.12 |
| Mn 257.610 | 2832.15 | ppb | 7.6803 | 0.3 | 586614 |
| Mo 202.032 | 10.5807 | ppb | 0.2502 | 2.4 | 58.1996 |
| Na 330.237 | 278.161 | ppb | 100.982 | 36.3 | -47.5068 |
| Ni 231.604 | 34.7716 | ppb | 1.3609 | 3.9 | 115.287 |
| Pb 220.353 | 271.185 | ppb | 0.6983 | 0.3 | 367.530 |
| Sb 206.834 | 1.8358 | ppb | 0.9500 | 51.8 | 14.2429 |
| Se 196.026 | 1.8212 | ppb | 4.8999 | 269.0 | 6.3436 |
| Sn 189.925 | 19.7359 | ppb | 3.4563 | 17.5 | 7.6028 |
| Sr 216.596 | 72.5174 | ppb | 0.2893 | 0.4 | 1129.06 |
| Ti 334.941 | 355.326 | ppb | 0.8815 | 0.2 | 98579.5 |
| Tl 190.794 | -9.0561 | ppb | 2.1175 | 23.4 | -50.4938 |
| V 292.401 | 279.198 | ppb | 0.9646 | 0.3 | 7337.34 |
| Zn 206.200 | 359.316 | ppb | 4.1969 | 1.2 | 313.111 |

**680-106200-b-43-a (Samp)** **10/15/2014, 8:40:19 PM** **Rack 3, Tube 21**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.3842u | -0.3233u | -0.3087u |
| Al 308.215 | 121300 | 121627 | 121595 |
| As 188.980 | 313.143 | 323.040 | 310.207 |
| B 249.678 | 66.6250 | 68.2460 | 67.9407 |
| Ba 389.178 | 1608.83 | 1613.67 | 1609.72 |
| Be 313.042 | 11.5985 | 11.6107 | 11.6011 |
| Ca 370.602 | 429391 | 431306 | 425850 |
| Cd 226.502 | 2.8971 | 3.4942 | 3.7751 |
| Co 228.615 | 79.5885 | 80.3995 | 80.9819 |
| Cr 267.716 | 296.141 | 296.463 | 296.116 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 376.622 | 373.380 | 373.035 |
| Fe 271.441 | 390859 | 391246 | 390450 |
| K 766.491 | 14172.1 | 14678.6 | 14574.6 |
| Mg 279.078 | 149449 | 149688 | 149908 |
| Mn 257.610 | 12482.8 | 12477.6 | 12497.4 |
| Mo 202.032 | 25.3234 | 26.2760 | 24.6507 |
| Na 330.237 | 1718.55u | 1367.21u | 1550.78u |
| Ni 231.604 | 145.276 | 145.669 | 142.954 |
| Pb 220.353 | 1030.88 | 1023.18 | 1025.14 |
| Sb 206.834 | 5.1919 | 4.9498 | 9.3922 |
| Se 196.026 | 17.2472 | 3.0560 | 3.1108 |
| Sn 189.925 | 66.6382 | 71.9852 | 66.4965 |
| Sr 216.596 | 557.261 | 560.219 | 560.862 |
| Ti 334.941 | 1753.47 | 1754.20 | 1751.42 |
| Tl 190.794 | -18.2308u | -15.8898u | -14.0603u |
| V 292.401 | 381.854 | 381.611 | 379.884 |
| Zn 206.200 | 1757.09 | 1766.61 | 1785.27 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.3387 | ppb | 0.0400 | 11.8 | -58.6375 |
| Al 308.215 | 121508 | ppb | 180.342 | 0.1 | 805140 |
| As 188.980 | 315.463 | ppb | 6.7237 | 2.1 | 165.786 |
| B 249.678 | 67.6039 | ppb | 0.8614 | 1.3 | 237.439 |
| Ba 389.178 | 1610.74 | ppb | 2.5746 | 0.2 | 33002.8 |
| Be 313.042 | 11.6034 | ppb | 0.0064 | 0.1 | 18709.0 |
| Ca 370.602 | 428849 | ppb | 2768 | 0.6 | 988442 |
| Cd 226.502 | 3.3888 | ppb | 0.4484 | 13.2 | 1539.00 |
| Co 228.615 | 80.3233 | ppb | 0.6998 | 0.9 | 897.645 |
| Cr 267.716 | 296.240 | ppb | 0.1937 | 0.1 | 14959.1 |
| Cu 324.754 | 374.346 | ppb | 1.9788 | 0.5 | 26662.5 |
| Fe 271.441 | 390852 | ppb | 397.695 | 0.1 | 550439 |
| K 766.491 | 14475.1 | ppb | 267.542 | 1.8 | 619543 |
| Mg 279.078 | 149682 | ppb | 229.518 | 0.2 | 363400 |
| Mn 257.610 | 12485.9 | ppb | 10.2668 | 0.1 | 2584236 |
| Mo 202.032 | 25.4167 | ppb | 0.8166 | 3.2 | 146.504 |
| Na 330.237 | 1545.51 | ppb | 175.728 | 11.4 | -43.4163 |
| Ni 231.604 | 144.633 | ppb | 1.4670 | 1.0 | 425.589 |
| Pb 220.353 | 1026.40 | ppb | 4.0035 | 0.4 | 1440.56 |
| Sb 206.834 | 6.5113 | ppb | 2.4979 | 38.4 | 24.1927 |
| Se 196.026 | 7.8047 | ppb | 8.1775 | 104.8 | 11.1084 |
| Sn 189.925 | 68.3733 | ppb | 3.1288 | 4.6 | 39.5812 |
| Sr 216.596 | 559.448 | ppb | 1.9208 | 0.3 | 6676.75 |
| Ti 334.941 | 1753.03 | ppb | 1.4399 | 0.1 | 486673 |
| Tl 190.794 | -16.0603 | ppb | 2.0905 | 13.0 | -62.2658 |
| V 292.401 | 381.116 | ppb | 1.0743 | 0.3 | 10020.8 |
| Zn 206.200 | 1769.66 | ppb | 14.3313 | 0.8 | 1582.04 |

**680-106200-b-41-a (Samp)** **10/15/2014, 8:44:36 PM** **Rack 3, Tube 22**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -2.7022u | -2.6439u | -2.3296u |
| Al 308.215 | 135450 | 135430 | 135601 |
| As 188.980 | 212.120 | 202.893 | 206.618 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 17.6432u | 17.2893u | 16.6279u |
| Ba 389.178 | 1355.56 | 1358.11 | 1357.63 |
| Be 313.042 | 14.8820 | 14.9220 | 14.9141 |
| Ca 370.602 | 59569 | 59611 | 59717 |
| Cd 226.502 | -0.7273 | -0.7204 | -1.1148 |
| Co 228.615 | 248.190 | 250.280 | 250.797 |
| Cr 267.716 | 313.752 | 314.190 | 313.637 |
| Cu 324.754 | 405.459 | 408.572 | 407.043 |
| Fe 271.441 | 513923 | 514140 | 513640 |
| K 766.491 | 12440.9 | 12462.1 | 12445.0 |
| Mg 279.078 | 28563.9 | 28589.1 | 28580.3 |
| Mn 257.610 | 15253.5 | 15227.0 | 15317.9 |
| Mo 202.032 | 24.5427 | 24.3858 | 24.0758 |
| Na 330.237 | 160.413u | 414.906u | 297.700u |
| Ni 231.604 | 106.136 | 103.323 | 106.251 |
| Pb 220.353 | 557.795 | 554.177 | 558.940 |
| Sb 206.834 | -1.2762 | 3.0675 | -3.5291 |
| Se 196.026 | 11.1620 | 3.5742 | 6.9128 |
| Sn 189.925 | 48.4678 | 52.7725 | 52.2696 |
| Sr 216.596 | 123.264 | 123.482 | 122.443 |
| Ti 334.941 | 546.688 | 547.854 | 547.963 |
| Tl 190.794 | -16.1264u | -11.7350u | -9.9416u |
| V 292.401 | 521.106 | 521.590 | 521.994 |
| Zn 206.200 | 846.287 | 844.765 | 846.502 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -2.5586 | ppb | 0.2004 | 7.8 | -219.784 |
| Al 308.215 | 135493 | ppb | 93.2558 | 0.1 | 897906 |
| As 188.980 | 207.210 | ppb | 4.6418 | 2.2 | 107.180 |
| B 249.678 | 17.1868 | ppb | 0.5153 | 3.0 | -782.765 |
| Ba 389.178 | 1357.10 | ppb | 1.3561 | 0.1 | 27766.7 |
| Be 313.042 | 14.9060 | ppb | 0.0212 | 0.1 | 23979.0 |
| Ca 370.602 | 59632 | ppb | 75.94 | 0.1 | 133359 |
| Cd 226.502 | -0.8542 | ppb | 0.2257 | 26.4 | 1817.64 |
| Co 228.615 | 249.755 | ppb | 1.3804 | 0.6 | 2647.02 |
| Cr 267.716 | 313.860 | ppb | 0.2915 | 0.1 | 15896.0 |
| Cu 324.754 | 407.025 | ppb | 1.5563 | 0.4 | 29003.3 |
| Fe 271.441 | 513901 | ppb | 250.686 | 0.0 | 723743 |
| K 766.491 | 12449.3 | ppb | 11.2536 | 0.1 | 532885 |
| Mg 279.078 | 28577.8 | ppb | 12.7797 | 0.0 | 69121.7 |
| Mn 257.610 | 15266.1 | ppb | 46.7113 | 0.3 | 3158621 |
| Mo 202.032 | 24.3347 | ppb | 0.2376 | 1.0 | 134.430 |
| Na 330.237 | 291.007 | ppb | 127.379 | 43.8 | -106.997 |
| Ni 231.604 | 105.237 | ppb | 1.6581 | 1.6 | 325.467 |
| Pb 220.353 | 556.971 | ppb | 2.4861 | 0.4 | 764.629 |
| Sb 206.834 | -0.5793 | ppb | 3.3531 | 578.8 | 18.7432 |
| Se 196.026 | 7.2163 | ppb | 3.8030 | 52.7 | 12.3438 |
| Sn 189.925 | 51.1700 | ppb | 2.3536 | 4.6 | 28.2698 |
| Sr 216.596 | 123.063 | ppb | 0.5479 | 0.4 | 1914.33 |
| Ti 334.941 | 547.502 | ppb | 0.7068 | 0.1 | 151972 |
| Tl 190.794 | -12.6010 | ppb | 3.1820 | 25.3 | -71.7251 |
| V 292.401 | 521.564 | ppb | 0.4446 | 0.1 | 13685.0 |
| Zn 206.200 | 845.851 | ppb | 0.9471 | 0.1 | 743.866 |

**680-106200-b-55-a (Samp)** **10/15/2014, 8:48:53 PM** **Rack 3, Tube 23**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.8993u | -0.5585u | -0.6745u |
| Al 308.215 | 114335 | 114294 | 114328 |
| As 188.980 | 161.008 | 146.488 | 152.766 |
| B 249.678 | 31.7981u | 32.6112u | 31.7493u |
| Ba 389.178 | 1453.84 | 1453.39 | 1454.53 |
| Be 313.042 | 10.7913 | 10.7760 | 10.7804 |
| Ca 370.602 | 296885 | 298244 | 296633 |
| Cd 226.502 | 3.9574 | 3.9943 | 4.0465 |
| Co 228.615 | 93.9459 | 93.2118 | 93.8811 |
| Cr 267.716 | 231.473 | 231.649 | 231.590 |
| Cu 324.754 | 579.875 | 580.380 | 587.660 |
| Fe 271.441 | 290199 | 290394 | 290873 |
| K 766.491 | 14396.5 | 14365.0 | 14377.4 |
| Mg 279.078 | 63969.6 | 63901.0 | 64078.8 |
| Mn 257.610 | 11776.3 | 11799.8 | 11847.0 |
| Mo 202.032 | 15.5194 | 14.8320 | 14.9998 |
| Na 330.237 | 913.537u | 633.733u | 982.722u |
| Ni 231.604 | 85.7499 | 88.8306 | 83.6123 |
| Pb 220.353 | 694.916 | 689.644 | 694.403 |
| Sb 206.834 | 4.7925 | 3.8346 | 2.5214 |
| Se 196.026 | 9.5192 | -0.0023 | 19.4716 |
| Sn 189.925 | 71.7226 | 75.1474 | 75.6464 |
| Sr 216.596 | 351.409 | 352.505 | 354.666 |
| Ti 334.941 | 680.328 | 679.507 | 680.128 |
| Tl 190.794 | -2.2198u | -6.7934u | -12.8995u |
| V 292.401 | 283.944 | 284.119 | 284.524 |
| Zn 206.200 | 2316.32 | 2321.25 | 2333.44 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.7108 | ppb | 0.1732 | 24.4 | -66.9434 |
| Al 308.215 | 114319 | ppb | 21.7766 | 0.0 | 757394 |
| As 188.980 | 153.421 | ppb | 7.2823 | 4.7 | 79.3257 |
| B 249.678 | 32.0529 | ppb | 0.4842 | 1.5 | -89.0025 |
| Ba 389.178 | 1453.92 | ppb | 0.5757 | 0.0 | 29663.2 |
| Be 313.042 | 10.7825 | ppb | 0.0079 | 0.1 | 17334.9 |
| Ca 370.602 | 297254 | ppb | 866.5 | 0.3 | 684821 |
| Cd 226.502 | 3.9994 | ppb | 0.0448 | 1.1 | 1201.20 |
| Co 228.615 | 93.6796 | ppb | 0.4064 | 0.4 | 1010.05 |
| Cr 267.716 | 231.571 | ppb | 0.0892 | 0.0 | 11701.7 |
| Cu 324.754 | 582.638 | ppb | 4.3562 | 0.7 | 41230.8 |
| Fe 271.441 | 290489 | ppb | 346.543 | 0.1 | 409102 |
| K 766.491 | 14379.6 | ppb | 15.8693 | 0.1 | 615460 |
| Mg 279.078 | 63983.2 | ppb | 89.6964 | 0.1 | 155210 |
| Mn 257.610 | 11807.7 | ppb | 35.9657 | 0.3 | 2443075 |
| Mo 202.032 | 15.1171 | ppb | 0.3584 | 2.4 | 87.1562 |
| Na 330.237 | 843.331 | ppb | 184.784 | 21.9 | -64.9608 |
| Ni 231.604 | 86.0643 | ppb | 2.6233 | 3.0 | 255.635 |
| Pb 220.353 | 692.987 | ppb | 2.9070 | 0.4 | 971.629 |
| Sb 206.834 | 3.7162 | ppb | 1.1402 | 30.7 | 16.9764 |
| Se 196.026 | 9.6628 | ppb | 9.7377 | 100.8 | 10.9301 |
| Sn 189.925 | 74.1721 | ppb | 2.1360 | 2.9 | 43.3938 |
| Sr 216.596 | 352.860 | ppb | 1.6573 | 0.5 | 4268.75 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 679.988 | ppb | 0.4281 | 0.1 | 188768 |
| Tl 190.794 | -7.3042 | ppb | 5.3582 | 73.4 | -42.0007 |
| V 292.401 | 284.196 | ppb | 0.2976 | 0.1 | 7460.36 |
| Zn 206.200 | 2323.67 | ppb | 8.8096 | 0.4 | 2085.86 |

**680-106200-b-12-a (Samp)** **10/15/2014, 8:53:11 PM** **Rack 3, Tube 24**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -2.9294u | -3.2259u | -3.0794u |
| Al 308.215 | 126504 | 126610 | 126692 |
| As 188.980 | 398.856 | 394.941 | 390.534 |
| B 249.678 | 30.0160u | 30.6992u | 30.4559u |
| Ba 389.178 | 731.911 | 731.349 | 731.475 |
| Be 313.042 | 6.9487 | 6.9692 | 6.9521 |
| Ca 370.602 | 46713 | 46894 | 46803 |
| Cd 226.502 | -1.8677 | -1.4290 | -1.1675 |
| Co 228.615 | 171.317 | 172.046 | 171.992 |
| Cr 267.716 | 249.218 | 249.527 | 248.655 |
| Cu 324.754 | 307.552 | 307.171 | 304.757 |
| Fe 271.441 | 363184 | 364050 | 363371 |
| K 766.491 | 7602.83 | 7621.66 | 7639.19 |
| Mg 279.078 | 10487.9 | 10504.2 | 10477.4 |
| Mn 257.610 | 6336.83 | 6355.99 | 6344.06 |
| Mo 202.032 | 18.8592 | 20.2791 | 18.3989 |
| Na 330.237 | 728.896u | 763.642u | 658.516u |
| Ni 231.604 | 128.429 | 131.772 | 131.900 |
| Pb 220.353 | 592.347 | 595.048 | 590.035 |
| Sb 206.834 | 0.6624 | 3.8808 | -0.4998 |
| Se 196.026 | -10.4256u | 9.8053 | 6.3352 |
| Sn 189.925 | 137.135 | 134.461 | 136.370 |
| Sr 216.596 | 272.374 | 273.366 | 273.379 |
| Ti 334.941 | 1217.31 | 1218.46 | 1219.43 |
| Tl 190.794 | -8.2071u | -15.0980u | -9.3241u |
| V 292.401 | 531.366 | 532.115 | 531.448 |
| Zn 206.200 | 940.302 | 945.088 | 949.151 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -3.0782 | ppb | 0.1482 | 4.8 | -282.607 |
| Al 308.215 | 126602 | ppb | 94.4171 | 0.1 | 838819 |
| As 188.980 | 394.777 | ppb | 4.1632 | 1.1 | 208.526 |
| B 249.678 | 30.3904 | ppb | 0.3463 | 1.1 | -267.507 |
| Ba 389.178 | 731.578 | ppb | 0.2951 | 0.0 | 14982.4 |
| Be 313.042 | 6.9567 | ppb | 0.0110 | 0.2 | 11042.7 |
| Ca 370.602 | 46803 | ppb | 90.29 | 0.2 | 105227 |
| Cd 226.502 | -1.4881 | ppb | 0.3538 | 23.8 | 1256.22 |
| Co 228.615 | 171.785 | ppb | 0.4057 | 0.2 | 1838.36 |
| Cr 267.716 | 249.133 | ppb | 0.4424 | 0.2 | 12579.6 |
| Cu 324.754 | 306.493 | ppb | 1.5158 | 0.5 | 21889.8 |
| Fe 271.441 | 363535 | ppb | 455.604 | 0.1 | 511981 |
| K 766.491 | 7621.22 | ppb | 18.1828 | 0.2 | 326347 |
| Mg 279.078 | 10489.8 | ppb | 13.4724 | 0.1 | 25344.3 |
| Mn 257.610 | 6345.63 | ppb | 9.6770 | 0.2 | 1313377 |
| Mo 202.032 | 19.1791 | ppb | 0.9800 | 5.1 | 108.932 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 717.018 | ppb | 53.5602 | 7.5 | -55.0346 |
| Ni 231.604 | 130.700 | ppb | 1.9682 | 1.5 | 384.691 |
| Pb 220.353 | 592.477 | ppb | 2.5091 | 0.4 | 822.469 |
| Sb 206.834 | 1.3478 | ppb | 2.2693 | 168.4 | 16.1745 |
| Se 196.026 | 1.9050 | ppb | 10.8186 | 567.9 | 7.4461 |
| Sn 189.925 | 135.989 | ppb | 1.3774 | 1.0 | 84.0373 |
| Sr 216.596 | 273.039 | ppb | 0.5766 | 0.2 | 3387.64 |
| Ti 334.941 | 1218.40 | ppb | 1.0594 | 0.1 | 338087 |
| Tl 190.794 | -10.8764 | ppb | 3.6984 | 34.0 | -56.1934 |
| V 292.401 | 531.643 | ppb | 0.4107 | 0.1 | 13905.8 |
| Zn 206.200 | 944.847 | ppb | 4.4296 | 0.5 | 839.093 |

**Cont Calib Verif (CCV)** **10/15/2014, 8:57:28 PM** **Rack 3, Tube 25**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 487.795 | 488.604 | 487.404 |
| Al 308.215 | 4843.28 | 4839.70 | 4784.10 |
| As 188.980 | 459.473 | 457.075 | 458.202 |
| B 249.678 | 478.021 | 478.913 | 480.572 |
| Ba 389.178 | 4774.73 | 4766.95 | 4757.04 |
| Be 313.042 | 480.746 | 480.228 | 478.371 |
| Ca 370.602 | 4753 | 4741 | 4713 |
| Cd 226.502 | 476.513 | 476.229 | 476.024 |
| Co 228.615 | 484.007 | 482.410 | 483.676 |
| Cr 267.716 | 4782.87 | 4774.67 | 4762.79 |
| Cu 324.754 | 5058.39 | 5004.19 | 5075.64 |
| Fe 271.441 | 4853.16 | 4833.83 | 4831.95 |
| K 766.491 | 10125.0 | 10110.5 | 10073.3 |
| Mg 279.078 | 4820.19 | 4813.41 | 4802.24 |
| Mn 257.610 | 4914.50 | 4897.44 | 4882.62 |
| Mo 202.032 | 481.915 | 480.890 | 482.161 |
| Na 330.237 | 7550.80 | 7349.42 | 7513.67 |
| Ni 231.604 | 2421.69 | 2417.87 | 2419.79 |
| Pb 220.353 | 481.081 | 477.822 | 480.205 |
| Sb 206.834 | 911.131 | 926.540 | 914.642 |
| Se 196.026 | 4765.72 | 4795.53 | 4756.44 |
| Sn 189.925 | 4791.17 | 4798.96 | 4785.03 |
| Sr 216.596 | 2355.91 | 2351.68 | 2353.66 |
| Ti 334.941 | 481.014 | 480.332 | 478.129 |
| Tl 190.794 | 4876.54 | 4867.31 | 4854.57 |
| V 292.401 | 4806.03 | 4805.15 | 4788.46 |
| Zn 206.200 | 2349.88 | 2332.55 | 2334.96 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 487.934 | ppb | 0.6121 | 0.1 | 37686.2 | 97.58688 |
| Al 308.215 | 4822.36 | ppb | 33.1825 | 0.7 | 32807.4 | 96.44729 |
| As 188.980 | 458.250 | ppb | 1.1999 | 0.3 | 243.335 | 91.64999 |
| B 249.678 | 479.168 | ppb | 1.2944 | 0.3 | 7283.16 | 95.83369 |
| Ba 389.178 | 4766.24 | ppb | 8.8640 | 0.2 | 96635.1 | 95.32485 |
| Be 313.042 | 479.782 | ppb | 1.2487 | 0.3 | 780926 | 95.95631 |
| Ca 370.602 | 4736 | ppb | 20.85 | 0.4 | 11217 | 94.71176 |
| Cd 226.502 | 476.255 | ppb | 0.2456 | 0.1 | 17854.1 | 95.25109 |
| Co 228.615 | 483.364 | ppb | 0.8429 | 0.2 | 5042.61 | 96.67284 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Cr 267.716 | 4773.44 | ppb | 10.1000 | 0.2 | 236873 | 95.46886 |
| Cu 324.754 | 5046.07 | ppb | 37.2805 | 0.7 | 354117 | 100.92145 |
| Fe 271.441 | 4839.64 | ppb | 11.7386 | 0.2 | 6918.11 | 96.79289 |
| K 766.491 | 10103.0 | ppb | 26.6568 | 0.3 | 432511 | 101.02958 |
| Mg 279.078 | 4811.95 | ppb | 9.0607 | 0.2 | 11617.7 | 96.23892 |
| Mn 257.610 | 4898.19 | ppb | 15.9536 | 0.3 | 1012995 | 97.96376 |
| Mo 202.032 | 481.655 | ppb | 0.6740 | 0.1 | 2981.96 | 96.33110 |
| Na 330.237 | 7471.29 | ppb | 107.171 | 1.4 | 319.567 | 99.61726 |
| Ni 231.604 | 2419.78 | ppb | 1.9077 | 0.1 | 6697.73 | 96.79125 |
| Pb 220.353 | 479.703 | ppb | 1.6866 | 0.4 | 687.595 | 95.94056 |
| Sb 206.834 | 917.438 | ppb | 8.0761 | 0.9 | 1254.64 | 91.74379 |
| Se 196.026 | 4772.57 | ppb | 20.4242 | 0.4 | 1841.22 | 95.45131 |
| Sn 189.925 | 4791.72 | ppb | 6.9798 | 0.1 | 3145.11 | 95.83443 |
| Sr 216.596 | 2353.75 | ppb | 2.1164 | 0.1 | 25661.1 | 94.15005 |
| Ti 334.941 | 479.825 | ppb | 1.5079 | 0.3 | 133089 | 95.96501 |
| Tl 190.794 | 4866.14 | ppb | 11.0335 | 0.2 | 4759.46 | 97.32278 |
| V 292.401 | 4799.88 | ppb | 9.9016 | 0.2 | 124124 | 95.99760 |
| Zn 206.200 | 2339.13 | ppb | 9.3897 | 0.4 | 2098.99 | 93.56518 |

**Cont Calib Blank (CCB)** **10/15/2014, 9:01:47 PM** **Rack 3, Tube 26**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0937 | 0.0610 | 0.0695 |
| Al 308.215 | 13.7002 | 13.7490 | 15.2090 |
| As 188.980 | 3.5365 | 3.2407 | 2.8749 |
| B 249.678 | 8.0139 | 7.8232 | 6.4007 |
| Ba 389.178 | 0.4012 | 0.7178 | 0.8177 |
| Be 313.042 | 0.0717 | 0.0790 | 0.1039 |
| Ca 370.602 | 6.566 | 8.957 | 8.880 |
| Cd 226.502 | -0.0411u | -0.0643u | 0.0036 |
| Co 228.615 | -0.2829u | 0.3140 | -0.0999u |
| Cr 267.716 | 0.6754 | 0.5420 | 0.9350 |
| Cu 324.754 | 0.8170 | 0.6670 | 1.1209 |
| Fe 271.441 | 9.8940 | 17.4687 | 21.5894 |
| K 766.491 | -0.4325u | -0.8809u | -0.1925u |
| Mg 279.078 | -0.3398u | 2.7302 | 4.5615 |
| Mn 257.610 | 1.1050 | 1.0664 | 1.5460 |
| Mo 202.032 | 0.5293 | -0.0311u | 0.4575 |
| Na 330.237 | -39.1998u | 17.2329 | -60.9456u |
| Ni 231.604 | 0.0110 | 0.6585 | 1.5019 |
| Pb 220.353 | -1.3433u | -0.5652u | 1.3928 |
| Sb 206.834 | -0.3613u | 3.0518 | 3.7167 |
| Se 196.026 | 3.0851 | 2.9791 | 7.2611 |
| Sn 189.925 | -2.6733u | -0.2959u | 5.4240 |
| Sr 216.596 | 0.3283 | 0.1259 | 0.5131 |
| Ti 334.941 | 0.2283 | 0.2030 | 0.2843 |
| Tl 190.794 | 1.5723 | 1.6280 | 0.6714 |
| V 292.401 | 0.7811 | 0.6452 | 0.9930 |
| Zn 206.200 | 0.8164 | 1.6227 | 1.7164 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.0747 | ppb | 0.0170 | 22.7 | -4.6801 | 0.07474 |
| Al 308.215 | 14.2194 | ppb | 0.8574 | 6.0 | 488.581 | 14.21941 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| As 188.980 | 3.2174 | ppb | 0.3315 | 10.3 | -0.6859 | 3.21738 |
| B 249.678 | 7.4126 | ppb | 0.8815 | 11.9 | 147.544 | 7.41263 |
| Ba 389.178 | 0.6456 | ppb | 0.2175 | 33.7 | -37.6750 | 0.64556 |
| Be 313.042 | 0.0849 | ppb | 0.0169 | 19.9 | -178.880 | 0.08487 |
| Ca 370.602 | 8.134 | ppb | 1.359 | 16.7 | 29.87 | 8.13419 |
| Cd 226.502 | -0.0339 | ppb | 0.0345 | 101.8 | 12.0014 | -0.03390 |
| Co 228.615 | -0.0229 | ppb | 0.3058 | 1332.8 | 2.9131 | -0.02294 |
| Cr 267.716 | 0.7175 | ppb | 0.1999 | 27.9 | 66.7378 | 0.71745 |
| Cu 324.754 | 0.8683 | ppb | 0.2312 | 26.6 | 310.798 | 0.86829 |
| Fe 271.441 | 16.3173 | ppb | 5.9321 | 36.4 | 29.8295 | 16.31735 |
| K 766.491 | -0.5020 | ppb | 0.3494 | 69.6 | 303.609 | -0.50196 |
| Mg 279.078 | 2.3173 | ppb | 2.4766 | 106.9 | 24.5344 | 2.31728 |
| Mn 257.610 | 1.2391 | ppb | 0.2665 | 21.5 | 297.015 | 1.23914 |
| Mo 202.032 | 0.3186 | ppb | 0.3049 | 95.7 | 8.2454 | 0.31857 |
| Na 330.237 | -27.6375 | ppb | 40.3514 | 146.0 | 20.6922 | -27.63746 |
| Ni 231.604 | 0.7238 | ppb | 0.7476 | 103.3 | -2.7707 | 0.72377 |
| Pb 220.353 | -0.1719 | ppb | 1.4098 | 820.2 | 0.1896 | -0.17190 |
| Sb 206.834 | 2.1357 | ppb | 2.1879 | 102.4 | 3.9433 | 2.13574 |
| Se 196.026 | 4.4418 | ppb | 2.4422 | 55.0 | 4.4506 | 4.44176 |
| Sn 189.925 | 0.8183 | ppb | 4.1620 | 508.6 | -4.8348 | 0.81826 |
| Sr 216.596 | 0.3224 | ppb | 0.1936 | 60.1 | 5.9181 | 0.32245 |
| Ti 334.941 | 0.2385 | ppb | 0.0416 | 17.4 | 4.3281 | 0.23855 |
| Tl 190.794 | 1.2905 | ppb | 0.5369 | 41.6 | -4.7010 | 1.29055 |
| V 292.401 | 0.8065 | ppb | 0.1753 | 21.7 | 13.7448 | 0.80645 |
| Zn 206.200 | 1.3852 | ppb | 0.4947 | 35.7 | 2.4537 | 1.38516 |

**680-106200-b-9-a (Samp)** **10/15/2014, 9:06:05 PM** **Rack 3, Tube 27**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -1.5314u | -1.1049u | -1.6090u |
| Al 308.215 | 107863 | 108123 | 108027 |
| As 188.980 | 161.685 | 168.772 | 165.355 |
| B 249.678 | 12.3366u | 14.5812u | 13.6484u |
| Ba 389.178 | 198.266 | 198.752 | 198.652 |
| Be 313.042 | 4.5727 | 4.5639 | 4.5553 |
| Ca 370.602 | 20593 | 20579 | 20487 |
| Cd 226.502 | -4.2578 | -4.3939 | -3.7658 |
| Co 228.615 | 51.6129 | 51.6529 | 52.1194 |
| Cr 267.716 | 223.391 | 224.146 | 223.541 |
| Cu 324.754 | 119.093 | 120.621 | 119.456 |
| Fe 271.441 | 306275 | 306446 | 306309 |
| K 766.491 | 4346.48 | 4348.21 | 4335.91 |
| Mg 279.078 | 6042.64 | 6045.57 | 6057.80 |
| Mn 257.610 | 1817.51 | 1817.02 | 1815.49 |
| Mo 202.032 | 9.1224 | 9.3989 | 9.9916 |
| Na 330.237 | 278.873u | 317.903u | 200.808u |
| Ni 231.604 | 64.6380 | 62.7287 | 63.8436 |
| Pb 220.353 | 135.635 | 136.643 | 139.312 |
| Sb 206.834 | 1.8298 | 4.8221 | 4.0401 |
| Se 196.026 | -6.4946 | 5.2565 | 14.5959 |
| Sn 189.925 | 22.7079 | 24.5141 | 30.2610 |
| Sr 216.596 | 95.6323 | 96.6211 | 95.4683 |
| Ti 334.941 | 672.938 | 673.567 | 672.840 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -6.6100u | -3.8601u | -6.8629u |
| V 292.401 | 419.225 | 419.496 | 419.350 |
| Zn 206.200 | 297.689 | 289.750 | 292.224 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -1.4151 | ppb | 0.2714 | 19.2 | -160.814 |
| Al 308.215 | 108005 | ppb | 131.346 | 0.1 | 715644 |
| As 188.980 | 165.271 | ppb | 3.5442 | 2.1 | 85.5572 |
| B 249.678 | 13.5221 | ppb | 1.1277 | 8.3 | -398.354 |
| Ba 389.178 | 198.557 | ppb | 0.2566 | 0.1 | 4136.61 |
| Be 313.042 | 4.5640 | ppb | 0.0087 | 0.2 | 7136.92 |
| Ca 370.602 | 20553 | ppb | 57.42 | 0.3 | 44832 |
| Cd 226.502 | -4.1392 | ppb | 0.3305 | 8.0 | 945.485 |
| Co 228.615 | 51.7950 | ppb | 0.2816 | 0.5 | 574.483 |
| Cr 267.716 | 223.692 | ppb | 0.3997 | 0.2 | 11270.9 |
| Cu 324.754 | 119.724 | ppb | 0.7985 | 0.7 | 8767.22 |
| Fe 271.441 | 306343 | ppb | 90.7292 | 0.0 | 431426 |
| K 766.491 | 4343.53 | ppb | 6.6601 | 0.2 | 186133 |
| Mg 279.078 | 6048.67 | ppb | 8.0423 | 0.1 | 14644.3 |
| Mn 257.610 | 1816.67 | ppb | 1.0559 | 0.1 | 376625 |
| Mo 202.032 | 9.5043 | ppb | 0.4441 | 4.7 | 51.6984 |
| Na 330.237 | 265.861 | ppb | 59.6220 | 22.4 | -45.3950 |
| Ni 231.604 | 63.7368 | ppb | 0.9591 | 1.5 | 194.932 |
| Pb 220.353 | 137.197 | ppb | 1.9002 | 1.4 | 176.510 |
| Sb 206.834 | 3.5640 | ppb | 1.5519 | 43.5 | 17.1409 |
| Se 196.026 | 4.4526 | ppb | 10.5682 | 237.3 | 7.1065 |
| Sn 189.925 | 25.8277 | ppb | 3.9442 | 15.3 | 11.6080 |
| Sr 216.596 | 95.9072 | ppb | 0.6236 | 0.7 | 1381.56 |
| Ti 334.941 | 673.115 | ppb | 0.3947 | 0.1 | 186765 |
| Tl 190.794 | -5.7776 | ppb | 1.6655 | 28.8 | -46.6299 |
| V 292.401 | 419.357 | ppb | 0.1357 | 0.0 | 10969.0 |
| Zn 206.200 | 293.221 | ppb | 4.0626 | 1.4 | 253.549 |

**680-106200-b-14-a (Samp)** **10/15/2014, 9:10:22 PM** **Rack 3, Tube 28**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1990u | 0.0002u | -0.5367u |
| Al 308.215 | 133839 | 133926 | 133896 |
| As 188.980 | 304.367 | 314.981 | 298.958 |
| B 249.678 | 31.5121u | 31.6050u | 31.2118u |
| Ba 389.178 | 1937.48 | 1934.49 | 1929.89 |
| Be 313.042 | 11.8247 | 11.8433 | 11.8139 |
| Ca 370.602 | 68020 | 67934 | 67764 |
| Cd 226.502 | 3.3933 | 3.9596 | 3.7561 |
| Co 228.615 | 107.376 | 108.035 | 108.567 |
| Cr 267.716 | 412.701 | 412.430 | 411.669 |
| Cu 324.754 | 451.757 | 452.390 | 451.206 |
| Fe 271.441 | 445392 | 445798 | 442568 |
| K 766.491 | 9604.39 | 9605.23 | 9642.43 |
| Mg 279.078 | 14805.8 | 14790.0 | 14749.3 |
| Mn 257.610 | 13310.1 | 13345.7 | 13326.2 |
| Mo 202.032 | 26.9924 | 27.5418 | 29.3014 |
| Na 330.237 | 1111.45u | 925.719u | 1349.60u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 155.979 | 156.335 | 157.686 |
| Pb 220.353 | 1410.98 | 1409.08 | 1407.93 |
| Sb 206.834 | 9.8261 | 3.6552 | 7.3224 |
| Se 196.026 | 1.5219 | -12.7017 | 4.1127 |
| Sn 189.925 | 122.769 | 127.994 | 129.359 |
| Sr 216.596 | 338.688 | 338.220 | 336.510 |
| Ti 334.941 | 1550.53 | 1550.29 | 1547.99 |
| Tl 190.794 | -8.8958u | -19.2929u | -9.1509u |
| V 292.401 | 542.571 | 541.301 | 541.939 |
| Zn 206.200 | 3064.90 | 3053.28 | 3051.27 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1125 | ppb | 0.3805 | 338.3 | -35.2146 |
| Al 308.215 | 133887 | ppb | 44.2866 | 0.0 | 887161 |
| As 188.980 | 306.102 | ppb | 8.1512 | 2.7 | 160.597 |
| B 249.678 | 31.4430 | ppb | 0.2056 | 0.7 | -416.983 |
| Ba 389.178 | 1933.95 | ppb | 3.8256 | 0.2 | 39413.1 |
| Be 313.042 | 11.8273 | ppb | 0.0149 | 0.1 | 18972.5 |
| Ca 370.602 | 67906 | ppb | 130.4 | 0.2 | 153494 |
| Cd 226.502 | 3.7030 | ppb | 0.2869 | 7.7 | 1732.39 |
| Co 228.615 | 107.993 | ppb | 0.5969 | 0.6 | 1184.92 |
| Cr 267.716 | 412.267 | ppb | 0.5349 | 0.1 | 20740.4 |
| Cu 324.754 | 451.784 | ppb | 0.5926 | 0.1 | 32112.9 |
| Fe 271.441 | 444586 | ppb | 1759.29 | 0.4 | 626115 |
| K 766.491 | 9617.35 | ppb | 21.7243 | 0.2 | 411738 |
| Mg 279.078 | 14781.7 | ppb | 29.1484 | 0.2 | 35642.1 |
| Mn 257.610 | 13327.3 | ppb | 17.8165 | 0.1 | 2757386 |
| Mo 202.032 | 27.9452 | ppb | 1.2062 | 4.3 | 159.806 |
| Na 330.237 | 1128.92 | ppb | 212.479 | 18.8 | -106.700 |
| Ni 231.604 | 156.667 | ppb | 0.9006 | 0.6 | 462.788 |
| Pb 220.353 | 1409.33 | ppb | 1.5417 | 0.1 | 1983.66 |
| Sb 206.834 | 6.9346 | ppb | 3.1037 | 44.8 | 27.4446 |
| Se 196.026 | -2.3557 | ppb | 9.0531 | 384.3 | 7.7256 |
| Sn 189.925 | 126.707 | ppb | 3.4780 | 2.7 | 77.9346 |
| Sr 216.596 | 337.806 | ppb | 1.1465 | 0.3 | 4185.01 |
| Ti 334.941 | 1549.60 | ppb | 1.4029 | 0.1 | 430006 |
| Tl 190.794 | -12.4466 | ppb | 5.9305 | 47.6 | -64.2697 |
| V 292.401 | 541.937 | ppb | 0.6346 | 0.1 | 14197.3 |
| Zn 206.200 | 3056.48 | ppb | 7.3574 | 0.2 | 2740.72 |

**680-106200-b-24-a (Samp)** **10/15/2014, 9:14:39 PM** **Rack 3, Tube 29**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -4.6593u | -5.1080u | -4.8302u |
| Al 308.215 | 135596 | 135238 | 135458 |
| As 188.980 | 287.564 | 267.806 | 281.364 |
| B 249.678 | 19.4753u | 19.1676u | 19.5388u |
| Ba 389.178 | 312.564 | 312.807 | 312.029 |
| Be 313.042 | 6.1930 | 6.1953 | 6.1822 |
| Ca 370.602 | 21680 | 21599 | 21531 |
| Cd 226.502 | -3.8568 | -3.9353 | -3.8547 |
| Co 228.615 | 196.861 | 195.602 | 197.336 |
| Cr 267.716 | 255.984 | 255.652 | 255.259 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 311.305 | 313.708 | 313.213 |
| Fe 271.441 | 348529 | 347957 | 348230 |
| K 766.491 | 9345.25 | 9366.80 | 9343.28 |
| Mg 279.078 | 10725.4 | 10673.8 | 10687.9 |
| Mn 257.610 | 3099.99 | 3090.14 | 3090.41 |
| Mo 202.032 | 13.4266 | 14.7191 | 13.4683 |
| Na 330.237 | -22.4475u | 105.818u | 71.2695u |
| Ni 231.604 | 157.777 | 156.938 | 156.109 |
| Pb 220.353 | 258.847 | 260.895 | 260.539 |
| Sb 206.834 | 0.6834 | -2.2641 | 2.6671 |
| Se 196.026 | -0.5610 | 0.2215 | -4.5615 |
| Sn 189.925 | 29.0455 | 25.0353 | 28.3863 |
| Sr 216.596 | 84.1157 | 84.8068 | 83.7485 |
| Ti 334.941 | 835.897 | 836.941 | 834.203 |
| Tl 190.794 | -8.8945u | -7.1536u | -7.5631u |
| V 292.401 | 499.365 | 499.106 | 498.660 |
| Zn 206.200 | 362.295 | 360.738 | 361.296 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -4.8659 | ppb | 0.2264 | 4.7 | -427.762 |
| Al 308.215 | 135431 | ppb | 180.542 | 0.1 | 897210 |
| As 188.980 | 278.912 | ppb | 10.1046 | 3.6 | 146.532 |
| B 249.678 | 19.3939 | ppb | 0.1986 | 1.0 | -398.810 |
| Ba 389.178 | 312.467 | ppb | 0.3978 | 0.1 | 6474.14 |
| Be 313.042 | 6.1901 | ppb | 0.0070 | 0.1 | 9788.24 |
| Ca 370.602 | 21603 | ppb | 74.26 | 0.3 | 46930 |
| Cd 226.502 | -3.8823 | ppb | 0.0459 | 1.2 | 1107.10 |
| Co 228.615 | 196.599 | ppb | 0.8963 | 0.5 | 2088.59 |
| Cr 267.716 | 255.632 | ppb | 0.3628 | 0.1 | 12879.9 |
| Cu 324.754 | 312.742 | ppb | 1.2689 | 0.4 | 22321.5 |
| Fe 271.441 | 348239 | ppb | 285.860 | 0.1 | 490442 |
| K 766.491 | 9351.78 | ppb | 13.0486 | 0.1 | 400377 |
| Mg 279.078 | 10695.7 | ppb | 26.6707 | 0.2 | 25901.4 |
| Mn 257.610 | 3093.51 | ppb | 5.6091 | 0.2 | 640820 |
| Mo 202.032 | 13.8713 | ppb | 0.7345 | 5.3 | 76.8291 |
| Na 330.237 | 51.5466 | ppb | 66.3684 | 128.8 | -67.6400 |
| Ni 231.604 | 156.941 | ppb | 0.8337 | 0.5 | 456.062 |
| Pb 220.353 | 260.093 | ppb | 1.0942 | 0.4 | 348.978 |
| Sb 206.834 | 0.3622 | ppb | 2.4813 | 685.1 | 14.4784 |
| Se 196.026 | -1.6337 | ppb | 2.5656 | 157.0 | 5.3309 |
| Sn 189.925 | 27.4891 | ppb | 2.1504 | 7.8 | 12.7002 |
| Sr 216.596 | 84.2237 | ppb | 0.5373 | 0.6 | 1297.53 |
| Ti 334.941 | 835.680 | ppb | 1.3817 | 0.2 | 231888 |
| Tl 190.794 | -7.8704 | ppb | 0.9102 | 11.6 | -52.7036 |
| V 292.401 | 499.043 | ppb | 0.3564 | 0.1 | 13049.7 |
| Zn 206.200 | 361.443 | ppb | 0.7892 | 0.2 | 313.387 |

**mb 680-353389/1-a (Samp)** **10/15/2014, 9:18:57 PM** **Rack 3, Tube 30**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0603u | 0.0268 | -0.1112u |
| Al 308.215 | 20.6006 | 19.5248 | 18.3493 |
| As 188.980 | -0.8942u | -1.0282u | 1.0750 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 1.0927 | 1.7863 | 0.8529 |
| Ba 389.178 | -0.4465u | -0.3026u | -0.1575u |
| Be 313.042 | 0.0318 | 0.0258 | 0.0226 |
| Ca 370.602 | 19.09 | 11.13 | 13.97 |
| Cd 226.502 | -0.0391u | -0.2168u | -0.0105u |
| Co 228.615 | -0.0940u | -0.1924u | -0.4722u |
| Cr 267.716 | 0.5023 | 0.4495 | 0.6363 |
| Cu 324.754 | 0.1249 | 0.3345 | 0.0756 |
| Fe 271.441 | 33.4154 | 25.3037 | 26.9465 |
| K 766.491 | 6.8415 | 6.4851 | 6.5473 |
| Mg 279.078 | 0.1271 | 0.5560 | -2.6442u |
| Mn 257.610 | 0.5251 | 0.5017 | 0.5035 |
| Mo 202.032 | -0.3409u | -0.3903u | 0.1521 |
| Na 330.237 | -44.4251u | -36.7498u | 44.9828 |
| Ni 231.604 | 1.6662 | 1.9115 | 1.0915 |
| Pb 220.353 | 0.4943 | 3.3872 | 0.8564 |
| Sb 206.834 | 0.0798 | 1.9435 | 6.1290 |
| Se 196.026 | 5.1594 | 10.0371 | 5.8452 |
| Sn 189.925 | 8.3366 | 9.5257 | 10.8492 |
| Sr 216.596 | -0.1235u | 0.4980 | 0.7013 |
| Ti 334.941 | 0.3656 | 0.3462 | 0.3333 |
| Tl 190.794 | 3.0940 | 0.8949 | -1.1959u |
| V 292.401 | 0.2690 | -0.1602u | 0.2703 |
| Zn 206.200 | 3.0530 | 2.5763 | 2.8183 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0482 | ppb | 0.0698 | 144.8 | -14.1989 |
| Al 308.215 | 19.4916 | ppb | 1.1260 | 5.8 | 523.385 |
| As 188.980 | -0.2825 | ppb | 1.1775 | 416.8 | -2.5634 |
| B 249.678 | 1.2439 | ppb | 0.4847 | 39.0 | 54.2642 |
| Ba 389.178 | -0.3022 | ppb | 0.1445 | 47.8 | -56.8979 |
| Be 313.042 | 0.0267 | ppb | 0.0047 | 17.4 | -273.497 |
| Ca 370.602 | 14.73 | ppb | 4.030 | 27.4 | 45.03 |
| Cd 226.502 | -0.0888 | ppb | 0.1117 | 125.8 | 9.9840 |
| Co 228.615 | -0.2529 | ppb | 0.1963 | 77.6 | 0.5270 |
| Cr 267.716 | 0.5294 | ppb | 0.0963 | 18.2 | 57.4153 |
| Cu 324.754 | 0.1783 | ppb | 0.1374 | 77.1 | 262.403 |
| Fe 271.441 | 28.5552 | ppb | 4.2885 | 15.0 | 47.0377 |
| K 766.491 | 6.6246 | ppb | 0.1903 | 2.9 | 608.472 |
| Mg 279.078 | -0.6537 | ppb | 1.7371 | 265.7 | 17.3284 |
| Mn 257.610 | 0.5101 | ppb | 0.0130 | 2.5 | 146.275 |
| Mo 202.032 | -0.1930 | ppb | 0.2999 | 155.4 | 5.0799 |
| Na 330.237 | -12.0640 | ppb | 49.5528 | 410.8 | 21.4020 |
| Ni 231.604 | 1.5564 | ppb | 0.4209 | 27.0 | -0.4630 |
| Pb 220.353 | 1.5793 | ppb | 1.5761 | 99.8 | 2.6864 |
| Sb 206.834 | 2.7174 | ppb | 3.0980 | 114.0 | 4.7186 |
| Se 196.026 | 7.0139 | ppb | 2.6406 | 37.6 | 5.4408 |
| Sn 189.925 | 9.5705 | ppb | 1.2569 | 13.1 | 0.9196 |
| Sr 216.596 | 0.3586 | ppb | 0.4297 | 119.8 | 6.3087 |
| Ti 334.941 | 0.3484 | ppb | 0.0163 | 4.7 | 34.7958 |
| Tl 190.794 | 0.9310 | ppb | 2.1452 | 230.4 | -5.0542 |
| V 292.401 | 0.1264 | ppb | 0.2482 | 196.4 | -3.7879 |
| Zn 206.200 | 2.8159 | ppb | 0.2384 | 8.5 | 3.7445 |

**lcs 680-353389/2-a (Samp)** **10/15/2014, 9:23:14 PM** **Rack 3, Tube 31**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 48.7395 | 48.7782 | 48.9988 |
| Al 308.215 | 4688.51 | 4709.68 | 4716.20 |
| As 188.980 | 105.105 | 106.509 | 106.414 |
| B 249.678 | 182.010 | 184.024 | 185.650 |
| Ba 389.178 | 94.2388 | 94.4782 | 94.1565 |
| Be 313.042 | 48.2867 | 48.5093 | 48.4636 |
| Ca 370.602 | 4736 | 4741 | 4714 |
| Cd 226.502 | 47.0584 | 46.9816 | 47.1723 |
| Co 228.615 | 47.3670 | 47.7921 | 48.2071 |
| Cr 267.716 | 96.1002 | 96.2278 | 96.2285 |
| Cu 324.754 | 98.7431 | 101.114 | 99.0789 |
| Fe 271.441 | 4736.75 | 4773.26 | 4772.25 |
| K 766.491 | 4949.63 | 4980.83 | 4969.89 |
| Mg 279.078 | 4661.26 | 4676.50 | 4682.21 |
| Mn 257.610 | 496.650 | 499.040 | 498.396 |
| Mo 202.032 | 94.8213 | 95.4634 | 94.8692 |
| Na 330.237 | 4583.06 | 4387.98 | 4397.95 |
| Ni 231.604 | 94.5797 | 95.1551 | 94.2914 |
| Pb 220.353 | 468.580 | 472.609 | 475.497 |
| Sb 206.834 | 51.6896 | 53.1705 | 48.7409 |
| Se 196.026 | 97.8107 | 102.977 | 106.659 |
| Sn 189.925 | 194.654 | 196.700 | 194.338 |
| Sr 216.596 | 91.0173 | 91.8800 | 92.2098 |
| Ti 334.941 | 97.6439 | 98.1174 | 98.0813 |
| Tl 190.794 | 37.4601 | 38.7252 | 37.2059 |
| V 292.401 | 95.8709 | 95.8331 | 96.5077 |
| Zn 206.200 | 94.1302 | 94.8903 | 95.5910 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 48.8388 | ppb | 0.1399 | 0.3 | 3765.66 |
| Al 308.215 | 4704.80 | ppb | 14.4781 | 0.3 | 31549.9 |
| As 188.980 | 106.009 | ppb | 0.7846 | 0.7 | 54.4528 |
| B 249.678 | 183.895 | ppb | 1.8237 | 1.0 | 2806.88 |
| Ba 389.178 | 94.2912 | ppb | 0.1672 | 0.2 | 1870.47 |
| Be 313.042 | 48.4199 | ppb | 0.1176 | 0.2 | 78502.2 |
| Ca 370.602 | 4730 | ppb | 14.33 | 0.3 | 10946 |
| Cd 226.502 | 47.0708 | ppb | 0.0959 | 0.2 | 1791.76 |
| Co 228.615 | 47.7887 | ppb | 0.4200 | 0.9 | 500.803 |
| Cr 267.716 | 96.1855 | ppb | 0.0739 | 0.1 | 4807.25 |
| Cu 324.754 | 99.6454 | ppb | 1.2830 | 1.3 | 7242.97 |
| Fe 271.441 | 4760.76 | ppb | 20.7953 | 0.4 | 6717.27 |
| K 766.491 | 4966.78 | ppb | 15.8297 | 0.3 | 212795 |
| Mg 279.078 | 4673.32 | ppb | 10.8330 | 0.2 | 11362.1 |
| Mn 257.610 | 498.029 | ppb | 1.2367 | 0.2 | 103077 |
| Mo 202.032 | 95.0513 | ppb | 0.3577 | 0.4 | 594.189 |
| Na 330.237 | 4456.33 | ppb | 109.867 | 2.5 | 231.435 |
| Ni 231.604 | 94.6754 | ppb | 0.4397 | 0.5 | 257.749 |
| Pb 220.353 | 472.228 | ppb | 3.4742 | 0.7 | 673.447 |
| Sb 206.834 | 51.2003 | ppb | 2.2550 | 4.4 | 68.2960 |
| Se 196.026 | 102.482 | ppb | 4.4447 | 4.3 | 42.3279 |
| Sn 189.925 | 195.231 | ppb | 1.2823 | 0.7 | 122.990 |
| Sr 216.596 | 91.7024 | ppb | 0.6158 | 0.7 | 1007.64 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 97.9475 | ppb | 0.2636 | 0.3 | 27125.0 |
| Tl 190.794 | 37.7971 | ppb | 0.8138 | 2.2 | 30.6191 |
| V 292.401 | 96.0706 | ppb | 0.3790 | 0.4 | 2466.78 |
| Zn 206.200 | 94.8705 | ppb | 0.7306 | 0.8 | 86.3694 |

**680-106194-a-27-a (Samp)** **10/15/2014, 9:27:32 PM** **Rack 3, Tube 32**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -3.0994u | -2.7973u | -2.4707u |
| Al 308.215 | 134984 | 134805 | 134830 |
| As 188.980 | 245.420 | 240.653 | 246.847 |
| B 249.678 | 13.3573u | 12.5331u | 12.2544u |
| Ba 389.178 | 334.951 | 335.457 | 334.271 |
| Be 313.042 | 17.4496 | 17.4214 | 17.4173 |
| Ca 370.602 | 68586 | 68557 | 68670 |
| Cd 226.502 | -0.4514 | -0.5604 | -0.5768 |
| Co 228.615 | 83.3733 | 81.9662 | 82.8053 |
| Cr 267.716 | 291.509 | 291.049 | 290.882 |
| Cu 324.754 | 424.527 | 418.022 | 420.208 |
| Fe 271.441 | 303601 | 303641 | 303438 |
| K 766.491 | 10725.7 | 10726.7 | 10741.6 |
| Mg 279.078 | 24132.5 | 24119.6 | 24073.0 |
| Mn 257.610 | 3117.67 | 3111.63 | 3117.82 |
| Mo 202.032 | 22.5576 | 23.5066 | 22.7616 |
| Na 330.237 | 202.035u | 241.581u | 202.099u |
| Ni 231.604 | 263.300 | 263.446 | 262.832 |
| Pb 220.353 | 242.251 | 236.671 | 241.410 |
| Sb 206.834 | 1.5948 | 6.1853 | 1.6203 |
| Se 196.026 | -17.8892u | 2.3472 | 9.1046 |
| Sn 189.925 | 24.3080 | 24.4597 | 22.0592 |
| Sr 216.596 | 101.036 | 99.7426 | 100.559 |
| Ti 334.941 | 1011.28 | 1011.34 | 1010.11 |
| Tl 190.794 | -9.3989u | -8.6516u | -5.8251u |
| V 292.401 | 421.508 | 421.657 | 420.920 |
| Zn 206.200 | 1277.41 | 1275.68 | 1264.11 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -2.7891 | ppb | 0.3144 | 11.3 | -260.964 |
| Al 308.215 | 134873 | ppb | 96.9285 | 0.1 | 893438 |
| As 188.980 | 244.306 | ppb | 3.2438 | 1.3 | 128.197 |
| B 249.678 | 12.7150 | ppb | 0.5735 | 4.5 | -403.762 |
| Ba 389.178 | 334.893 | ppb | 0.5949 | 0.2 | 6923.01 |
| Be 313.042 | 17.4294 | ppb | 0.0176 | 0.1 | 28095.1 |
| Ca 370.602 | 68604 | ppb | 58.65 | 0.1 | 156088 |
| Cd 226.502 | -0.5295 | ppb | 0.0682 | 12.9 | 1069.25 |
| Co 228.615 | 82.7149 | ppb | 0.7079 | 0.9 | 902.582 |
| Cr 267.716 | 291.147 | ppb | 0.3245 | 0.1 | 14623.3 |
| Cu 324.754 | 420.919 | ppb | 3.3099 | 0.8 | 29891.2 |
| Fe 271.441 | 303560 | ppb | 107.756 | 0.0 | 427510 |
| K 766.491 | 10731.3 | ppb | 8.8976 | 0.1 | 459391 |
| Mg 279.078 | 24108.4 | ppb | 31.3240 | 0.1 | 58488.0 |
| Mn 257.610 | 3115.71 | ppb | 3.5350 | 0.1 | 645378 |
| Mo 202.032 | 22.9419 | ppb | 0.4995 | 2.2 | 134991 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 215.238 | ppb | 22.8134 | 10.6 | -71.8453 |
| Ni 231.604 | 263.193 | ppb | 0.3208 | 0.1 | 747.154 |
| Pb 220.353 | 240.111 | ppb | 3.0083 | 1.3 | 323.223 |
| Sb 206.834 | 3.1335 | ppb | 2.6430 | 84.3 | 16.9618 |
| Se 196.026 | -2.1458 | ppb | 14.0466 | 654.6 | 4.7872 |
| Sn 189.925 | 23.6090 | ppb | 1.3443 | 5.7 | 10.1492 |
| Sr 216.596 | 100.446 | ppb | 0.6541 | 0.7 | 1438.22 |
| Ti 334.941 | 1010.91 | ppb | 0.6926 | 0.1 | 280528 |
| Tl 190.794 | -7.9586 | ppb | 1.8850 | 23.7 | -47.7460 |
| V 292.401 | 421.362 | ppb | 0.3898 | 0.1 | 11019.8 |
| Zn 206.200 | 1272.40 | ppb | 7.2286 | 0.6 | 1136.89 |

**680-106194-a-27-aSD (Samp)** **10/15/2014, 9:31:49 PM** **Rack 3, Tube 33**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.6495u | -0.4461u | -0.8056u |
| Al 308.215 | 30944.7 | 30489.5 | 30094.3 |
| As 188.980 | 56.1687 | 59.3179 | 57.0434 |
| B 249.678 | 3.5691u | 3.5842u | 3.6821u |
| Ba 389.178 | 79.2375 | 78.3753 | 77.5255 |
| Be 313.042 | 4.0991 | 4.0502 | 3.9824 |
| Ca 370.602 | 15835 | 15555 | 15337 |
| Cd 226.502 | -0.2547 | -0.2172 | -0.4333 |
| Co 228.615 | 19.2558 | 19.5232 | 19.2374 |
| Cr 267.716 | 69.0001 | 67.9373 | 67.1017 |
| Cu 324.754 | 94.2568 | 92.5882 | 91.8072 |
| Fe 271.441 | 71631.4 | 70613.8 | 69760.7 |
| K 766.491 | 2255.76 | 2225.09 | 2188.52 |
| Mg 279.078 | 5748.55 | 5659.62 | 5594.04 |
| Mn 257.610 | 753.923 | 742.607 | 733.467 |
| Mo 202.032 | 5.2417 | 5.0515 | 5.5423 |
| Na 330.237 | -89.9118u | -48.5323u | 87.6046u |
| Ni 231.604 | 63.4280 | 62.7049 | 61.5887 |
| Pb 220.353 | 52.9850 | 58.7914 | 56.5820 |
| Sb 206.834 | 1.1661 | -0.7063 | 2.0890 |
| Se 196.026 | -0.2669 | 0.7644 | -5.0368u |
| Sn 189.925 | 6.9316 | 7.8364 | 7.0126 |
| Sr 216.596 | 24.4563 | 23.5967 | 23.1272 |
| Ti 334.941 | 240.143 | 236.569 | 233.532 |
| Tl 190.794 | -0.8162u | -1.0548u | -1.4325u |
| V 292.401 | 99.7745 | 98.2720 | 96.6294 |
| Zn 206.200 | 302.538 | 299.051 | 295.855 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.6337 | ppb | 0.1802 | 28.4 | -67.5182 |
| Al 308.215 | 30509.5 | ppb | 425.523 | 1.4 | 202412 |
| As 188.980 | 57.5100 | ppb | 1.6256 | 2.8 | 28.3270 |
| B 249.678 | 3.6118 | ppb | 0.0613 | 1.7 | -57.2858 |
| Ba 389.178 | 78.3794 | ppb | 0.8560 | 1.1 | 1581.32 |
| Be 313.042 | 4.0439 | ppb | 0.0586 | 1.4 | 6275.14 |
| Ca 370.602 | 15575 | ppb | 249.6 | 1.6 | 35431 |
| Cd 226.502 | -0.3017 | ppb | 0.1155 | 38.3 | 252.979 |
| Co 228.615 | 19.3388 | ppb | 0.1600 | 0.8 | 213.451 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 68.0130 | ppb | 0.9515 | 1.4 | 3439.95 |
| Cu 324.754 | 92.8841 | ppb | 1.2513 | 1.3 | 6792.33 |
| Fe 271.441 | 70668.7 | ppb | 936.560 | 1.3 | 99529.4 |
| K 766.491 | 2223.13 | ppb | 33.6618 | 1.5 | 95426.4 |
| Mg 279.078 | 5667.40 | ppb | 77.5471 | 1.4 | 13764.0 |
| Mn 257.610 | 743.333 | ppb | 10.2473 | 1.4 | 153997 |
| Mo 202.032 | 5.2785 | ppb | 0.2475 | 4.7 | 35.8468 |
| Na 330.237 | -16.9465 | ppb | 92.8777 | 548.1 | -3.1386 |
| Ni 231.604 | 62.5739 | ppb | 0.9266 | 1.5 | 173.893 |
| Pb 220.353 | 56.1195 | ppb | 2.9307 | 5.2 | 75.9004 |
| Sb 206.834 | 0.8496 | ppb | 1.4243 | 167.6 | 4.9829 |
| Se 196.026 | -1.5131 | ppb | 3.0949 | 204.5 | 2.8315 |
| Sn 189.925 | 7.2602 | ppb | 0.5007 | 6.9 | -0.5995 |
| Sr 216.596 | 23.7267 | ppb | 0.6740 | 2.8 | 340.675 |
| Ti 334.941 | 236.748 | ppb | 3.3088 | 1.4 | 65650.2 |
| Tl 190.794 | -1.1011 | ppb | 0.3107 | 28.2 | -14.9639 |
| V 292.401 | 98.2253 | ppb | 1.5731 | 1.6 | 2563.50 |
| Zn 206.200 | 299.148 | ppb | 3.3427 | 1.1 | 268.232 |

**680-106194-a-27-aPDS (Samp)** **10/15/2014, 9:36:07 PM** **Rack 3, Tube 34**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 80.1986 | 80.5946 | 80.8897 |
| Al 308.215 | 135699 | 135596 | 135544 |
| As 188.980 | 344.876 | 336.431 | 323.677 |
| B 249.678 | 177.592 | 178.696 | 178.795 |
| Ba 389.178 | 402.765 | 402.216 | 401.651 |
| Be 313.042 | 100.343 | 100.390 | 100.329 |
| Ca 370.602 | 75468 | 75564 | 75399 |
| Cd 226.502 | 81.2466 | 81.2060 | 81.3603 |
| Co 228.615 | 164.150 | 164.395 | 164.118 |
| Cr 267.716 | 370.609 | 370.308 | 369.363 |
| Cu 324.754 | 507.466 | 512.646 | 512.190 |
| Fe 271.441 | 307707 | 308281 | 307403 |
| K 766.491 | 19841.3 | 19948.1 | 19912.6 |
| Mg 279.078 | 31904.9 | 31876.4 | 31850.3 |
| Mn 257.610 | 3914.74 | 3932.23 | 3906.54 |
| Mo 202.032 | 106.197 | 107.098 | 107.089 |
| Na 330.237 | 8110.92 | 8109.25 | 8105.66 |
| Ni 231.604 | 340.218 | 338.485 | 341.808 |
| Pb 220.353 | 325.904 | 319.816 | 321.569 |
| Sb 206.834 | 84.9526 | 83.8128 | 84.7838 |
| Se 196.026 | 82.7975 | 89.0179 | 81.6493 |
| Sn 189.925 | 104.830 | 100.827 | 98.5208 |
| Sr 216.596 | 180.462 | 179.290 | 180.631 |
| Ti 334.941 | 1085.97 | 1085.75 | 1084.67 |
| Tl 190.794 | 13.0833u | 8.5193u | 2.7495u |
| V 292.401 | 500.407 | 501.577 | 501.487 |
| Zn 206.200 | 1331.62 | 1335.26 | 1333.49 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 80.5610 | ppb | 0.3467 | 0.4 | 6185.95 |
| Al 308.215 | 135613 | ppb | 78.5687 | 0.1 | 898353 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 334.995 | ppb | 10.6720 | 3.2 | 176.813 |
| B 249.678 | 178.361 | ppb | 0.6673 | 0.4 | 2090.86 |
| Ba 389.178 | 402.211 | ppb | 0.5568 | 0.1 | 8301.35 |
| Be 313.042 | 100.354 | ppb | 0.0319 | 0.0 | 163089 |
| Ca 370.602 | 75477 | ppb | 82.48 | 0.1 | 171968 |
| Cd 226.502 | 81.2710 | ppb | 0.0800 | 0.1 | 4149.64 |
| Co 228.615 | 164.221 | ppb | 0.1519 | 0.1 | 1751.43 |
| Cr 267.716 | 370.093 | ppb | 0.6498 | 0.2 | 18545.4 |
| Cu 324.754 | 510.767 | ppb | 2.8680 | 0.6 | 36197.1 |
| Fe 271.441 | 307797 | ppb | 445.735 | 0.1 | 433486 |
| K 766.491 | 19900.7 | ppb | 54.3838 | 0.3 | 851640 |
| Mg 279.078 | 31877.2 | ppb | 27.2818 | 0.1 | 77346.9 |
| Mn 257.610 | 3917.84 | ppb | 13.1219 | 0.3 | 811324 |
| Mo 202.032 | 106.795 | ppb | 0.5178 | 0.5 | 653.593 |
| Na 330.237 | 8108.61 | ppb | 2.6840 | 0.0 | 302.514 |
| Ni 231.604 | 340.170 | ppb | 1.6622 | 0.5 | 960.624 |
| Pb 220.353 | 322.430 | ppb | 3.1341 | 1.0 | 440.317 |
| Sb 206.834 | 84.5164 | ppb | 0.6151 | 0.7 | 123.973 |
| Se 196.026 | 84.4882 | ppb | 3.9646 | 4.7 | 38.3388 |
| Sn 189.925 | 101.393 | ppb | 3.1925 | 3.1 | 61.2933 |
| Sr 216.596 | 180.128 | ppb | 0.7304 | 0.4 | 2314.44 |
| Ti 334.941 | 1085.46 | ppb | 0.6971 | 0.1 | 301228 |
| Tl 190.794 | 8.1174 | ppb | 5.1786 | 63.8 | -32.2198 |
| V 292.401 | 501.157 | ppb | 0.6508 | 0.1 | 13074.2 |
| Zn 206.200 | 1333.46 | ppb | 1.8221 | 0.1 | 1191.56 |

**680-106194-a-27-b ms (Samp)** **10/15/2014, 9:40:24 PM** **Rack 3, Tube 35**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 41.3022 | 41.1431 | 41.3168 |
| Al 308.215 | 130396 | 130379 | 130736 |
| As 188.980 | 301.379 | 289.833 | 299.498 |
| B 249.678 | 123.311 | 123.717 | 123.395 |
| Ba 389.178 | 483.639 | 485.617 | 485.962 |
| Be 313.042 | 61.4366 | 61.4841 | 61.4807 |
| Ca 370.602 | 160334 | 159413 | 159708 |
| Cd 226.502 | 43.1514 | 43.4218 | 44.1111 |
| Co 228.615 | 146.579 | 147.245 | 147.867 |
| Cr 267.716 | 337.785 | 338.284 | 337.645 |
| Cu 324.754 | 970.793 | 975.524 | 970.276 |
| Fe 271.441 | 273912 | 274339 | 273932 |
| K 766.491 | 14693.6 | 14654.1 | 14678.4 |
| Mg 279.078 | 22900.9 | 22882.5 | 22892.8 |
| Mn 257.610 | 6079.70 | 6055.93 | 6067.15 |
| Mo 202.032 | 95.1240 | 95.5347 | 95.3676 |
| Na 330.237 | 4764.17 | 4620.97 | 4540.64 |
| Ni 231.604 | 347.702 | 350.651 | 349.874 |
| Pb 220.353 | 815.003 | 811.834 | 813.712 |
| Sb 206.834 | 27.0066 | 20.8887 | 15.0984 |
| Se 196.026 | 74.4779 | 78.0260 | 77.7743 |
| Sn 189.925 | 181.456 | 178.018 | 180.308 |
| Sr 216.596 | 303.934 | 304.255 | 304.605 |
| Ti 334.941 | 982.213 | 983.567 | 983.187 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 23.2770u | 22.1219u | 26.3447u |
| V 292.401 | 462.279 | 460.936 | 461.581 |
| Zn 206.200 | 1519.15 | 1512.46 | 1520.12 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 41.2540 | ppb | 0.0963 | 0.2 | 3157.25 |
| Al 308.215 | 130504 | ppb | 201.215 | 0.2 | 864487 |
| As 188.980 | 296.903 | ppb | 6.1951 | 2.1 | 156.513 |
| B 249.678 | 123.474 | ppb | 0.2146 | 0.2 | 1329.97 |
| Ba 389.178 | 485.073 | ppb | 1.2532 | 0.3 | 9953.75 |
| Be 313.042 | 61.4671 | ppb | 0.0265 | 0.0 | 99807.9 |
| Ca 370.602 | 159818 | ppb | 470.3 | 0.3 | 367271 |
| Cd 226.502 | 43.5614 | ppb | 0.4948 | 1.1 | 2619.29 |
| Co 228.615 | 147.230 | ppb | 0.6438 | 0.4 | 1570.65 |
| Cr 267.716 | 337.904 | ppb | 0.3360 | 0.1 | 16943.6 |
| Cu 324.754 | 972.198 | ppb | 2.8928 | 0.3 | 68546.5 |
| Fe 271.441 | 274061 | ppb | 241.019 | 0.1 | 385976 |
| K 766.491 | 14675.4 | ppb | 19.9000 | 0.1 | 628111 |
| Mg 279.078 | 22892.0 | ppb | 9.2193 | 0.0 | 55479.6 |
| Mn 257.610 | 6067.59 | ppb | 11.8931 | 0.2 | 1255716 |
| Mo 202.032 | 95.3421 | ppb | 0.2066 | 0.2 | 584.181 |
| Na 330.237 | 4641.93 | ppb | 113.227 | 2.4 | 140.203 |
| Ni 231.604 | 349.409 | ppb | 1.5285 | 0.4 | 983.707 |
| Pb 220.353 | 813.516 | ppb | 1.5936 | 0.2 | 1143.09 |
| Sb 206.834 | 20.9979 | ppb | 5.9548 | 28.4 | 39.1005 |
| Se 196.026 | 76.7594 | ppb | 1.9798 | 2.6 | 35.5237 |
| Sn 189.925 | 179.927 | ppb | 1.7506 | 1.0 | 112.927 |
| Sr 216.596 | 304.265 | ppb | 0.3356 | 0.1 | 3664.03 |
| Ti 334.941 | 982.989 | ppb | 0.6984 | 0.1 | 272775 |
| Tl 190.794 | 23.9145 | ppb | 2.1824 | 9.1 | -11.8618 |
| V 292.401 | 461.599 | ppb | 0.6716 | 0.1 | 12038.7 |
| Zn 206.200 | 1517.25 | ppb | 4.1704 | 0.3 | 1358.72 |

**680-106194-a-27-c ms (Samp)** **10/15/2014, 9:44:42 PM** **Rack 3, Tube 36**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 43.0255 | 42.3651 | 43.2980 |
| Al 308.215 | 123550 | 123538 | 123583 |
| As 188.980 | 269.767 | 280.588 | 278.842 |
| B 249.678 | 129.930 | 130.324 | 130.089 |
| Ba 389.178 | 433.096 | 432.232 | 432.555 |
| Be 313.042 | 60.6484 | 60.5816 | 60.6577 |
| Ca 370.602 | 88114 | 88082 | 88365 |
| Cd 226.502 | 43.6385 | 43.4334 | 43.7274 |
| Co 228.615 | 142.598 | 142.878 | 142.714 |
| Cr 267.716 | 364.298 | 363.805 | 364.781 |
| Cu 324.754 | 789.796 | 785.080 | 791.450 |
| Fe 271.441 | 274667 | 274272 | 274416 |
| K 766.491 | 14125.7 | 14180.9 | 14115.8 |
| Mg 279.078 | 27714.4 | 27666.7 | 27691.5 |
| Mn 257.610 | 3784.85 | 3788.14 | 3775.25 |
| Mo 202.032 | 95.4724 | 96.4033 | 95.6561 |
| Na 330.237 | 4623.57 | 4560.13 | 4577.59 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 354.081 | 352.943 | 355.840 |
| Pb 220.353 | 777.703 | 780.168 | 778.122 |
| Sb 206.834 | 22.9452 | 23.4128 | 23.1003 |
| Se 196.026 | 86.0360 | 83.8984 | 90.2588 |
| Sn 189.925 | 188.212 | 192.604 | 190.862 |
| Sr 216.596 | 236.675 | 234.617 | 235.066 |
| Ti 334.941 | 1038.09 | 1037.94 | 1038.99 |
| Tl 190.794 | 26.7589u | 26.5683u | 23.2392u |
| V 292.401 | 460.831 | 461.071 | 462.009 |
| Zn 206.200 | 1204.15 | 1207.50 | 1208.75 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 42.8962 | ppb | 0.4797 | 1.1 | 3275.66 |
| Al 308.215 | 123557 | ppb | 22.9810 | 0.0 | 818516 |
| As 188.980 | 276.399 | ppb | 5.8093 | 2.1 | 145.450 |
| B 249.678 | 130.114 | ppb | 0.1979 | 0.2 | 1429.06 |
| Ba 389.178 | 432.628 | ppb | 0.4364 | 0.1 | 8896.50 |
| Be 313.042 | 60.6292 | ppb | 0.0415 | 0.1 | 98421.6 |
| Ca 370.602 | 88187 | ppb | 155.1 | 0.2 | 201651 |
| Cd 226.502 | 43.5997 | ppb | 0.1508 | 0.3 | 2623.05 |
| Co 228.615 | 142.730 | ppb | 0.1403 | 0.1 | 1524.94 |
| Cr 267.716 | 364.295 | ppb | 0.4878 | 0.1 | 18243.3 |
| Cu 324.754 | 788.775 | ppb | 3.3058 | 0.4 | 55682.2 |
| Fe 271.441 | 274452 | ppb | 199.836 | 0.1 | 386525 |
| K 766.491 | 14140.8 | ppb | 35.0752 | 0.2 | 605243 |
| Mg 279.078 | 27690.9 | ppb | 23.8215 | 0.1 | 67182.6 |
| Mn 257.610 | 3782.75 | ppb | 6.6994 | 0.2 | 783264 |
| Mo 202.032 | 95.8439 | ppb | 0.4930 | 0.5 | 587.259 |
| Na 330.237 | 4587.10 | ppb | 32.7726 | 0.7 | 145.006 |
| Ni 231.604 | 354.288 | ppb | 1.4595 | 0.4 | 997.277 |
| Pb 220.353 | 778.664 | ppb | 1.3188 | 0.2 | 1093.02 |
| Sb 206.834 | 23.1528 | ppb | 0.2382 | 1.0 | 42.2325 |
| Se 196.026 | 86.7311 | ppb | 3.2366 | 3.7 | 38.9315 |
| Sn 189.925 | 190.559 | ppb | 2.2113 | 1.2 | 119.918 |
| Sr 216.596 | 235.453 | ppb | 1.0825 | 0.5 | 2888.38 |
| Ti 334.941 | 1038.34 | ppb | 0.5704 | 0.1 | 288141 |
| Tl 190.794 | 25.5221 | ppb | 1.9794 | 7.8 | -11.4127 |
| V 292.401 | 461.304 | ppb | 0.6226 | 0.1 | 12031.0 |
| Zn 206.200 | 1206.80 | ppb | 2.3773 | 0.2 | 1078.56 |

**Cont Calib Verif (CCV)** **10/15/2014, 9:49:00 PM** **Rack 3, Tube 37**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 486.438 | 490.080 | 486.000 |
| Al 308.215 | 4819.53 | 4789.33 | 4846.13 |
| As 188.980 | 463.124 | 457.243 | 457.217 |
| B 249.678 | 478.616 | 480.390 | 485.191 |
| Ba 389.178 | 4761.89 | 4764.16 | 4774.39 |
| Be 313.042 | 478.563 | 479.231 | 478.640 |
| Ca 370.602 | 4765 | 4753 | 4751 |
| Cd 226.502 | 473.431 | 475.131 | 475.896 |
| Co 228.615 | 485.109 | 484.331 | 483.618 |
| Cr 267.716 | 4780.30 | 4774.82 | 4783.03 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 4971.26 | 5069.96 | 5036.69 |
| Fe 271.441 | 4819.18 | 4817.37 | 4841.09 |
| K 766.491 | 10057.2 | 10090.5 | 10107.6 |
| Mg 279.078 | 4814.01 | 4799.24 | 4813.23 |
| Mn 257.610 | 4888.99 | 4898.07 | 4912.44 |
| Mo 202.032 | 479.110 | 482.618 | 481.834 |
| Na 330.237 | 7397.22 | 7531.04 | 7500.31 |
| Ni 231.604 | 2419.93 | 2415.47 | 2432.01 |
| Pb 220.353 | 477.628 | 482.801 | 483.177 |
| Sb 206.834 | 909.507 | 913.067 | 914.717 |
| Se 196.026 | 4748.69 | 4744.80 | 4797.67 |
| Sn 189.925 | 4777.64 | 4781.37 | 4796.17 |
| Sr 216.596 | 2343.74 | 2343.41 | 2348.84 |
| Ti 334.941 | 481.925 | 482.382 | 482.274 |
| Tl 190.794 | 4865.87 | 4850.10 | 4865.17 |
| V 292.401 | 4792.19 | 4798.82 | 4799.85 |
| Zn 206.200 | 2339.08 | 2331.80 | 2340.62 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 487.506 | ppb | 2.2399 | 0.5 | 37653.5 | 97.50119 |
| Al 308.215 | 4818.33 | ppb | 28.4198 | 0.6 | 32779.9 | 96.36664 |
| As 188.980 | 459.195 | ppb | 3.4029 | 0.7 | 243.842 | 91.83894 |
| B 249.678 | 481.399 | ppb | 3.4017 | 0.7 | 7316.87 | 96.27986 |
| Ba 389.178 | 4766.81 | ppb | 6.6573 | 0.1 | 96646.7 | 95.33628 |
| Be 313.042 | 478.811 | ppb | 0.3656 | 0.1 | 779346 | 95.76223 |
| Ca 370.602 | 4757 | ppb | 7.792 | 0.2 | 11265 | 95.13036 |
| Cd 226.502 | 474.819 | ppb | 1.2619 | 0.3 | 17800.2 | 94.96386 |
| Co 228.615 | 484.353 | ppb | 0.7458 | 0.2 | 5052.91 | 96.87060 |
| Cr 267.716 | 4779.38 | ppb | 4.1839 | 0.1 | 237167 | 95.58768 |
| Cu 324.754 | 5025.97 | ppb | 50.2173 | 1.0 | 352707 | 100.51938 |
| Fe 271.441 | 4825.88 | ppb | 13.1998 | 0.3 | 6898.59 | 96.51762 |
| K 766.491 | 10085.1 | ppb | 25.6469 | 0.3 | 431746 | 100.85073 |
| Mg 279.078 | 4808.83 | ppb | 8.3098 | 0.2 | 11610.3 | 96.17658 |
| Mn 257.610 | 4899.83 | ppb | 11.8215 | 0.2 | 1013335 | 97.99662 |
| Mo 202.032 | 481.187 | ppb | 1.8417 | 0.4 | 2979.08 | 96.23746 |
| Na 330.237 | 7476.19 | ppb | 70.0934 | 0.9 | 319.908 | 99.68255 |
| Ni 231.604 | 2422.47 | ppb | 8.5584 | 0.4 | 6705.17 | 96.89876 |
| Pb 220.353 | 481.202 | ppb | 3.1009 | 0.6 | 689.723 | 96.24035 |
| Sb 206.834 | 912.430 | ppb | 2.6629 | 0.3 | 1247.90 | 91.24303 |
| Se 196.026 | 4763.72 | ppb | 29.4626 | 0.6 | 1837.81 | 95.27437 |
| Sn 189.925 | 4785.06 | ppb | 9.8012 | 0.2 | 3140.74 | 95.70128 |
| Sr 216.596 | 2345.33 | ppb | 3.0445 | 0.1 | 25569.1 | 93.81317 |
| Ti 334.941 | 482.193 | ppb | 0.2388 | 0.0 | 133746 | 96.43868 |
| Tl 190.794 | 4860.38 | ppb | 8.9101 | 0.2 | 4753.81 | 97.20762 |
| V 292.401 | 4796.95 | ppb | 4.1573 | 0.1 | 124049 | 95.93906 |
| Zn 206.200 | 2337.17 | ppb | 4.7075 | 0.2 | 2097.26 | 93.48667 |

**Cont Calib Blank (CCB)** **10/15/2014, 9:53:18 PM** **Rack 3, Tube 38**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1594 | 0.3525 | 0.1181 |
| Al 308.215 | 9.4562 | 12.5959 | 13.5648 |
| As 188.980 | 5.5873 | 0.3490 | 6.4399 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 8.8223 | 8.1584 | 6.9010 |
| Ba 389.178 | -0.1220u | 0.4244 | 1.5122 |
| Be 313.042 | 0.0667 | 0.0742 | 0.0950 |
| Ca 370.602 | 4.475 | 8.353 | 11.36 |
| Cd 226.502 | 0.0179 | 0.0576 | -0.0304u |
| Co 228.615 | -0.1485u | 0.5779 | -0.0754u |
| Cr 267.716 | 0.5910 | 0.7126 | 1.0171 |
| Cu 324.754 | 0.7335 | 0.8210 | 1.0879 |
| Fe 271.441 | 11.9127 | 13.6821 | 8.4471 |
| K 766.491 | -0.2985u | -0.1654u | -0.0608u |
| Mg 279.078 | -0.9622u | 1.4497 | 0.1925 |
| Mn 257.610 | 0.8192 | 0.9333 | 1.2314 |
| Mo 202.032 | 1.1465 | -0.0966u | 0.1086 |
| Na 330.237 | -147.497u | -2.9056u | -39.4671u |
| Ni 231.604 | 0.3371 | 0.6428 | 1.5269 |
| Pb 220.353 | 0.2582 | -0.1695u | -1.6815u |
| Sb 206.834 | 4.7919 | 2.1176 | 2.4620 |
| Se 196.026 | 11.8943 | 7.3854 | 4.4912 |
| Sn 189.925 | 0.8473 | 3.1345 | 1.4154 |
| Sr 216.596 | 0.4579 | -0.1445u | 0.8471 |
| Ti 334.941 | 0.2447 | 0.2017 | 0.2884 |
| Tl 190.794 | 0.7649 | -0.5441u | 3.5626 |
| V 292.401 | 0.6721 | 0.9108 | 1.0171 |
| Zn 206.200 | 1.7566 | 1.0546 | -0.2571u |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.2100 | ppb | 0.1251 | 59.6 | 5.7781 | 0.20999 |
| Al 308.215 | 11.8723 | ppb | 2.1478 | 18.1 | 473.049 | 11.87231 |
| As 188.980 | 4.1254 | ppb | 3.2981 | 79.9 | -0.1988 | 4.12539 |
| B 249.678 | 7.9606 | ppb | 0.9758 | 12.3 | 155.862 | 7.96057 |
| Ba 389.178 | 0.6049 | ppb | 0.8319 | 137.5 | -38.5032 | 0.60489 |
| Be 313.042 | 0.0786 | ppb | 0.0146 | 18.6 | -189.079 | 0.07861 |
| Ca 370.602 | 8.063 | ppb | 3.452 | 42.8 | 29.74 | 8.06296 |
| Cd 226.502 | 0.0150 | ppb | 0.0441 | 293.6 | 13.8164 | 0.01501 |
| Co 228.615 | 0.1180 | ppb | 0.4000 | 338.9 | 4.3781 | 0.11801 |
| Cr 267.716 | 0.7736 | ppb | 0.2195 | 28.4 | 69.5214 | 0.77358 |
| Cu 324.754 | 0.8808 | ppb | 0.1846 | 21.0 | 311.677 | 0.88079 |
| Fe 271.441 | 11.3473 | ppb | 2.6629 | 23.5 | 22.8166 | 11.34730 |
| K 766.491 | -0.1749 | ppb | 0.1192 | 68.1 | 317.601 | -0.17489 |
| Mg 279.078 | 0.2267 | ppb | 1.2063 | 532.2 | 19.4599 | 0.22667 |
| Mn 257.610 | 0.9946 | ppb | 0.2129 | 21.4 | 246.432 | 0.99464 |
| Mo 202.032 | 0.3862 | ppb | 0.6664 | 172.6 | 8.6640 | 0.38618 |
| Na 330.237 | -63.2898 | ppb | 75.1817 | 118.8 | 18.9888 | -63.28982 |
| Ni 231.604 | 0.8356 | ppb | 0.6179 | 73.9 | -2.4609 | 0.83562 |
| Pb 220.353 | -0.5309 | ppb | 1.0192 | 192.0 | -0.3221 | -0.53092 |
| Sb 206.834 | 3.1238 | ppb | 1.4548 | 46.6 | 5.2444 | 3.12384 |
| Se 196.026 | 7.9236 | ppb | 3.7308 | 47.1 | 5.7911 | 7.92363 |
| Sn 189.925 | 1.7990 | ppb | 1.1909 | 66.2 | -4.1900 | 1.79905 |
| Sr 216.596 | 0.3869 | ppb | 0.4996 | 129.2 | 6.6058 | 0.38686 |
| Ti 334.941 | 0.2449 | ppb | 0.0434 | 17.7 | 6.0905 | 0.24492 |
| Tl 190.794 | 1.2612 | ppb | 2.0978 | 166.3 | -4.7300 | 1.26115 |
| V 292.401 | 0.8667 | ppb | 0.1767 | 20.4 | 15.2895 | 0.86671 |
| Zn 206.200 | 0.8513 | ppb | 1.0221 | 120.1 | 1.9722 | 0.85134 |

**680-106194-a-22-a (Samp)** **10/15/2014, 9:57:36 PM** **Rack 3, Tube 39**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -2.7819u | -2.3386u | -2.6016u |
| Al 308.215 | 66057.6 | 65999.2 | 66061.0 |
| As 188.980 | 78.7734 | 77.0468 | 76.5406 |
| B 249.678 | 20.5557 | 20.6466 | 20.2659 |
| Ba 389.178 | 569.224 | 570.573 | 570.926 |
| Be 313.042 | 6.1876 | 6.2105 | 6.2129 |
| Ca 370.602 | 458872 | 456766 | 457151 |
| Cd 226.502 | 0.3369 | 0.5620 | 0.7105 |
| Co 228.615 | 57.1309 | 57.3397 | 56.6868 |
| Cr 267.716 | 111.824 | 111.570 | 112.124 |
| Cu 324.754 | 127.427 | 127.520 | 128.012 |
| Fe 271.441 | 109696 | 109857 | 109954 |
| K 766.491 | 5136.71 | 5152.05 | 5144.34 |
| Mg 279.078 | 37181.6 | 37078.3 | 37155.9 |
| Mn 257.610 | 5007.09 | 5024.81 | 5023.11 |
| Mo 202.032 | 7.9224 | 7.6914 | 7.5580 |
| Na 330.237 | 332.566u | 128.090u | 146.711u |
| Ni 231.604 | 76.0868 | 74.8102 | 76.5135 |
| Pb 220.353 | 188.127 | 187.970 | 186.714 |
| Sb 206.834 | 7.1178 | -1.2021 | 2.3150 |
| Se 196.026 | 7.4051 | 6.2048 | 12.4659 |
| Sn 189.925 | 13.9160 | 19.3918 | 15.0294 |
| Sr 216.596 | 145.563 | 145.780 | 146.257 |
| Ti 334.941 | 517.090 | 517.360 | 517.709 |
| Tl 190.794 | -3.3487u | -7.3913u | -2.8830u |
| V 292.401 | 198.178 | 197.823 | 198.210 |
| Zn 206.200 | 232.156 | 232.213 | 230.247 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -2.5740 | ppb | 0.2229 | 8.7 | -208.757 |
| Al 308.215 | 66039.3 | ppb | 34.7123 | 0.1 | 437600 |
| As 188.980 | 77.4536 | ppb | 1.1706 | 1.5 | 39.1198 |
| B 249.678 | 20.4894 | ppb | 0.1988 | 1.0 | 115.758 |
| Ba 389.178 | 570.241 | ppb | 0.8980 | 0.2 | 11616.6 |
| Be 313.042 | 6.2037 | ppb | 0.0140 | 0.2 | 9930.38 |
| Ca 370.602 | 457596 | ppb | 1122 | 0.2 | 1057047 |
| Cd 226.502 | 0.5365 | ppb | 0.1881 | 35.1 | 424.739 |
| Co 228.615 | 57.0524 | ppb | 0.3334 | 0.6 | 614.140 |
| Cr 267.716 | 111.839 | ppb | 0.2774 | 0.2 | 5650.77 |
| Cu 324.754 | 127.653 | ppb | 0.3140 | 0.2 | 9245.79 |
| Fe 271.441 | 109835 | ppb | 130.226 | 0.1 | 154691 |
| K 766.491 | 5144.36 | ppb | 7.6699 | 0.1 | 220392 |
| Mg 279.078 | 37138.6 | ppb | 53.7703 | 0.1 | 90133.0 |
| Mn 257.610 | 5018.34 | ppb | 9.7767 | 0.2 | 1038380 |
| Mo 202.032 | 7.7239 | ppb | 0.1843 | 2.4 | 49.2093 |
| Na 330.237 | 202.456 | ppb | 113.063 | 55.8 | -0.8136 |
| Ni 231.604 | 75.8035 | ppb | 0.8863 | 1.2 | 213.461 |
| Pb 220.353 | 187.604 | ppb | 0.7744 | 0.4 | 261.253 |
| Sb 206.834 | 2.7436 | ppb | 4.1765 | 152.2 | 9.0888 |
| Se 196.026 | 8.6919 | ppb | 3.3230 | 38.2 | 7.8756 |
| Sn 189.925 | 16.1124 | ppb | 2.8941 | 18.0 | 5.2207 |
| Sr 216.596 | 145.866 | ppb | 0.3551 | 0.2 | 1867.15 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 517.386 | ppb | 0.3104 | 0.1 | 143581 |
| Tl 190.794 | -4.5410 | ppb | 2.4794 | 54.6 | -20.8546 |
| V 292.401 | 198.071 | ppb | 0.2146 | 0.1 | 5167.31 |
| Zn 206.200 | 231.539 | ppb | 1.1188 | 0.5 | 205.626 |

**680-106194-a-21-a (Samp)** **10/15/2014, 10:01:54 PM** **Rack 3, Tube 40**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -1.6578u | -1.2454u | -1.4881u |
| Al 308.215 | 75685.4 | 75679.4 | 75594.4 |
| As 188.980 | 74.3610 | 66.9704 | 67.6690 |
| B 249.678 | 38.5387 | 39.3582 | 38.3685 |
| Ba 389.178 | 738.237 | 738.360 | 738.976 |
| Be 313.042 | 7.6059 | 7.6059 | 7.6152 |
| Ca 370.602 | 914181x | 910853x | 909353x |
| Cd 226.502 | 1.0082 | 0.9610 | 0.8781 |
| Co 228.615 | 26.5303 | 26.7976 | 25.6268 |
| Cr 267.716 | 136.949 | 137.753 | 137.459 |
| Cu 324.754 | 53.3781 | 53.6611 | 52.8887 |
| Fe 271.441 | 109041 | 108957 | 109046 |
| K 766.491 | 4982.71 | 4974.93 | 4975.73 |
| Mg 279.078 | 15257.7 | 15307.1 | 15288.5 |
| Mn 257.610 | 3867.76 | 3877.27 | 3873.49 |
| Mo 202.032 | 3.5910 | 2.6899 | 3.8658 |
| Na 330.237 | 389.828u | 402.893u | 264.139u |
| Ni 231.604 | 52.7035 | 50.8817 | 51.3148 |
| Pb 220.353 | 82.4889 | 81.1158 | 82.8324 |
| Sb 206.834 | 4.6233 | 6.9896 | -1.5190 |
| Se 196.026 | 8.9931 | 20.5795 | 2.4692 |
| Sn 189.925 | 7.6294 | 12.2457 | 12.3231 |
| Sr 216.596 | 326.090 | 325.257 | 326.390 |
| Ti 334.941 | 297.087 | 296.962 | 296.461 |
| Tl 190.794 | -10.7754u | -10.7444u | -4.9581u |
| V 292.401 | 130.857 | 129.650 | 130.701 |
| Zn 206.200 | 74.1376 | 71.2951 | 73.4478 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -1.4638b | ppb | 0.2073 | 14.2 | -134.680 |
| Al 308.215 | 75653.0b | ppb | 50.8548 | 0.1 | 501209 |
| As 188.980 | 69.6668b | ppb | 4.0803 | 5.9 | 35.0279 |
| B 249.678 | 38.7551b | ppb | 0.5292 | 1.4 | 393.437 |
| Ba 389.178 | 738.524b | ppb | 0.3958 | 0.1 | 15001.4 |
| Be 313.042 | 7.6090b | ppb | 0.0054 | 0.1 | 12356.4 |
| Ca 370.602 | 911462xb | ppb | 2471 | 0.3 | 2106145 |
| Cd 226.502 | 0.9491b | ppb | 0.0658 | 6.9 | 437.399 |
| Co 228.615 | 26.3182b | ppb | 0.6135 | 2.3 | 289.901 |
| Cr 267.716 | 137.387b | ppb | 0.4067 | 0.3 | 6913.45 |
| Cu 324.754 | 53.3093b | ppb | 0.3908 | 0.7 | 4032.08 |
| Fe 271.441 | 109015b | ppb | 49.7976 | 0.0 | 153532 |
| K 766.491 | 4977.79b | ppb | 4.2837 | 0.1 | 213266 |
| Mg 279.078 | 15284.4b | ppb | 24.9822 | 0.2 | 37055.7 |
| Mn 257.610 | 3872.84b | ppb | 4.7905 | 0.1 | 801344 |
| Mo 202.032 | 3.3823b | ppb | 0.6151 | 18.2 | 22.4383 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 352.287b | ppb | 76.6167 | 21.7 | 10.9492 |
| Ni 231.604 | 51.6333b | ppb | 0.9517 | 1.8 | 146.525 |
| Pb 220.353 | 82.1457b | ppb | 0.9083 | 1.1 | 110.721 |
| Sb 206.834 | 3.3646b | ppb | 4.3917 | 130.5 | 10.2261 |
| Se 196.026 | 10.6806b | ppb | 9.1723 | 85.9 | 8.4178 |
| Sn 189.925 | 10.7327b | ppb | 2.6879 | 25.0 | 1.6837 |
| Sr 216.596 | 325.912b | ppb | 0.5869 | 0.2 | 3988.85 |
| Ti 334.941 | 296.837b | ppb | 0.3315 | 0.1 | 82346.3 |
| Tl 190.794 | -8.8259b | ppb | 3.3497 | 38.0 | -25.6475 |
| V 292.401 | 130.403b | ppb | 0.6564 | 0.5 | 3409.29 |
| Zn 206.200 | 72.9602b | ppb | 1.4827 | 2.0 | 62.5218 |

**680-106194-a-15-a (Samp)** **10/15/2014, 10:06:12 PM** **Rack 3, Tube 41**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -3.7544u | -3.3674u | -3.7433u |
| Al 308.215 | 180808 | 181096 | 181294 |
| As 188.980 | 325.396 | 325.327 | 323.673 |
| B 249.678 | 18.6892u | 18.4527u | 18.5238u |
| Ba 389.178 | 527.282 | 527.392 | 526.615 |
| Be 313.042 | 19.8523 | 19.8623 | 19.8834 |
| Ca 370.602 | 30146 | 30126 | 30047 |
| Cd 226.502 | -1.8821 | -2.2229 | -1.7040 |
| Co 228.615 | 100.018 | 100.077 | 100.194 |
| Cr 267.716 | 240.128 | 240.414 | 240.271 |
| Cu 324.754 | 269.942 | 270.742 | 272.179 |
| Fe 271.441 | 319495 | 320089 | 320058 |
| K 766.491 | 12653.8 | 12694.4 | 12685.4 |
| Mg 279.078 | 12028.6 | 12028.8 | 12052.0 |
| Mn 257.610 | 5866.79 | 5878.85 | 5870.29 |
| Mo 202.032 | 32.1394 | 33.5949 | 33.4171 |
| Na 330.237 | 253.523u | 200.217u | 327.786u |
| Ni 231.604 | 311.883 | 310.983 | 310.819 |
| Pb 220.353 | 224.181 | 216.450 | 218.717 |
| Sb 206.834 | 4.2972 | 3.6127 | 2.4141 |
| Se 196.026 | -0.3441 | 2.5911 | 2.6587 |
| Sn 189.925 | 18.9576 | 19.6171 | 23.3113 |
| Sr 216.596 | 55.2821 | 55.6528 | 54.0875 |
| Ti 334.941 | 887.260 | 888.329 | 888.430 |
| Tl 190.794 | -5.4569u | -9.3127u | -5.9292u |
| V 292.401 | 422.218 | 422.363 | 423.089 |
| Zn 206.200 | 291.924 | 288.070 | 289.897 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -3.6217 | ppb | 0.2203 | 6.1 | -313.207 |
| Al 308.215 | 181066 | ppb | 244.333 | 0.1 | 1199143 |
| As 188.980 | 324.798 | ppb | 0.9756 | 0.3 | 171.676 |
| B 249.678 | 18.5553 | ppb | 0.1213 | 0.7 | -353.683 |
| Ba 389.178 | 527.097 | ppb | 0.4202 | 0.1 | 10815.0 |
| Be 313.042 | 19.8660 | ppb | 0.0159 | 0.1 | 32052.3 |
| Ca 370.602 | 30106 | ppb | 52.67 | 0.2 | 66931 |
| Cd 226.502 | -1.9363 | ppb | 0.2637 | 13.6 | 1081.56 |
| Co 228.615 | 100.096 | ppb | 0.0895 | 0.1 | 1082.21 |

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| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 240.271 | ppb | 0.1434 | 0.1 | 12119.3 |
| Cu 324.754 | 270.955 | ppb | 1.1334 | 0.4 | 19381.1 |
| Fe 271.441 | 319881 | ppb | 334.627 | 0.1 | 450495 |
| K 766.491 | 12677.9 | ppb | 21.3300 | 0.2 | 542661 |
| Mg 279.078 | 12036.5 | ppb | 13.4580 | 0.1 | 29092.2 |
| Mn 257.610 | 5871.98 | ppb | 6.2051 | 0.1 | 1215315 |
| Mo 202.032 | 33.0505 | ppb | 0.7940 | 2.4 | 196.766 |
| Na 330.237 | 260.509 | ppb | 64.0705 | 24.6 | -49.5407 |
| Ni 231.604 | 311.228 | ppb | 0.5727 | 0.2 | 881.590 |
| Pb 220.353 | 219.783 | ppb | 3.9743 | 1.8 | 293.062 |
| Sb 206.834 | 3.4414 | ppb | 0.9531 | 27.7 | 17.2595 |
| Se 196.026 | 1.6352 | ppb | 1.7145 | 104.8 | 6.9144 |
| Sn 189.925 | 20.6287 | ppb | 2.3465 | 11.4 | 8.1898 |
| Sr 216.596 | 55.0075 | ppb | 0.8180 | 1.5 | 947.656 |
| Ti 334.941 | 888.007 | ppb | 0.6483 | 0.1 | 246408 |
| Tl 190.794 | -6.8996 | ppb | 2.1031 | 30.5 | -47.6182 |
| V 292.401 | 422.557 | ppb | 0.4666 | 0.1 | 11055.5 |
| Zn 206.200 | 289.964 | ppb | 1.9280 | 0.7 | 249.989 |

**680-106194-a-11-a (Samp)** **10/15/2014, 10:10:30 PM** **Rack 3, Tube 42**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -2.3132u | -2.5533u | -2.5124u |
| Al 308.215 | 72654.6 | 72594.4 | 72688.8 |
| As 188.980 | 199.706 | 202.198 | 203.191 |
| B 249.678 | 26.1249 | 26.0931 | 25.7370 |
| Ba 389.178 | 580.002 | 578.585 | 580.289 |
| Be 313.042 | 6.6617 | 6.6551 | 6.6814 |
| Ca 370.602 | 378597 | 379660 | 379659 |
| Cd 226.502 | 5.0972 | 4.7422 | 4.9956 |
| Co 228.615 | 58.3059 | 58.7175 | 58.7513 |
| Cr 267.716 | 169.555 | 169.618 | 169.823 |
| Cu 324.754 | 1533.35 | 1519.52 | 1514.00 |
| Fe 271.441 | 140747 | 140816 | 140947 |
| K 766.491 | 5092.04 | 5085.11 | 5099.72 |
| Mg 279.078 | 15904.8 | 15911.2 | 15938.3 |
| Mn 257.610 | 5600.27 | 5582.84 | 5610.83 |
| Mo 202.032 | 15.1563 | 15.4094 | 15.2230 |
| Na 330.237 | 421.313u | 373.463u | 351.854u |
| Ni 231.604 | 123.404 | 123.357 | 123.735 |
| Pb 220.353 | 617.413 | 621.242 | 625.806 |
| Sb 206.834 | 1.8083 | 5.6281 | 0.0962 |
| Se 196.026 | 3.9819 | -6.2035u | -2.7433 |
| Sn 189.925 | 33.6073 | 29.5430 | 35.3931 |
| Sr 216.596 | 136.785 | 136.047 | 135.797 |
| Ti 334.941 | 532.615 | 532.800 | 533.389 |
| Tl 190.794 | -1.4850u | -4.3978u | -6.9839u |
| V 292.401 | 184.131 | 184.056 | 184.130 |
| Zn 206.200 | 874.353 | 861.765 | 867.354 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -2.4596 | ppb | 0.1285 | 5.2 | -201.203 |
| Al 308.215 | 72645.9 | ppb | 47.7772 | 0.1 | 481369 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 201.699 | ppb | 1.7955 | 0.9 | 105.665 |
| B 249.678 | 25.9850 | ppb | 0.2154 | 0.8 | 133.618 |
| Ba 389.178 | 579.625 | ppb | 0.9127 | 0.2 | 11795.5 |
| Be 313.042 | 6.6661 | ppb | 0.0137 | 0.2 | 10658.2 |
| Ca 370.602 | 379305 | ppb | 613.8 | 0.2 | 875778 |
| Cd 226.502 | 4.9450 | ppb | 0.1828 | 3.7 | 700.528 |
| Co 228.615 | 58.5916 | ppb | 0.2480 | 0.4 | 632.316 |
| Cr 267.716 | 169.665 | ppb | 0.1405 | 0.1 | 8536.64 |
| Cu 324.754 | 1522.29 | ppb | 9.9672 | 0.7 | 107074 |
| Fe 271.441 | 140837 | ppb | 101.580 | 0.1 | 198349 |
| K 766.491 | 5092.29 | ppb | 7.3090 | 0.1 | 218164 |
| Mg 279.078 | 15918.1 | ppb | 17.7690 | 0.1 | 38564.5 |
| Mn 257.610 | 5597.98 | ppb | 14.1353 | 0.3 | 1158177 |
| Mo 202.032 | 15.2629 | ppb | 0.1312 | 0.9 | 94.5509 |
| Na 330.237 | 382.210 | ppb | 35.5456 | 9.3 | -15.2644 |
| Ni 231.604 | 123.499 | ppb | 0.2056 | 0.2 | 347.957 |
| Pb 220.353 | 621.487 | ppb | 4.2015 | 0.7 | 878.123 |
| Sb 206.834 | 2.5108 | ppb | 2.8321 | 112.8 | 10.2055 |
| Se 196.026 | -1.6550 | ppb | 5.1792 | 312.9 | 4.2402 |
| Sn 189.925 | 32.8478 | ppb | 2.9981 | 9.1 | 16.2239 |
| Sr 216.596 | 136.210 | ppb | 0.5141 | 0.4 | 1767.58 |
| Ti 334.941 | 532.935 | ppb | 0.4043 | 0.1 | 147864 |
| Tl 190.794 | -4.2889 | ppb | 2.7511 | 64.1 | -24.1173 |
| V 292.401 | 184.106 | ppb | 0.0428 | 0.0 | 4812.78 |
| Zn 206.200 | 867.824 | ppb | 6.3071 | 0.7 | 778.327 |

**680-106194-a-10-a (Samp)** **10/15/2014, 10:14:49 PM** **Rack 3, Tube 43**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.7944u | -0.8424u | -0.0913u |
| Al 308.215 | 36924.9 | 36862.1 | 36941.2 |
| As 188.980 | 592.658 | 585.764 | 593.834 |
| B 249.678 | 27.2830u | 27.1681u | 28.2854u |
| Ba 389.178 | 637.444 | 638.282 | 638.641 |
| Be 313.042 | 4.8500 | 4.8498 | 4.8477 |
| Ca 370.602 | 592333 | 591667 | 588193 |
| Cd 226.502 | 7.2934 | 7.1996 | 7.8958 |
| Co 228.615 | 56.6513 | 55.3140 | 56.0878 |
| Cr 267.716 | 192.279 | 192.004 | 191.981 |
| Cu 324.754 | 1722.68 | 1726.36 | 1731.57 |
| Fe 271.441 | 205418 | 205242 | 205366 |
| K 766.491 | 3757.84 | 3751.23 | 3753.92 |
| Mg 279.078 | 16302.7 | 16269.2 | 16272.4 |
| Mn 257.610 | 3360.39 | 3357.96 | 3362.96 |
| Mo 202.032 | 22.8458 | 22.9883 | 23.3488 |
| Na 330.237 | 407.476u | 618.473u | 459.061u |
| Ni 231.604 | 157.647 | 154.143 | 157.284 |
| Pb 220.353 | 548.719 | 544.812 | 548.542 |
| Sb 206.834 | 9.1246 | 11.7004 | 8.8161 |
| Se 196.026 | -4.7240 | 11.1354 | 11.1033 |
| Sn 189.925 | 46.1572 | 36.4974 | 48.0042 |
| Sr 216.596 | 209.817 | 208.463 | 209.887 |
| Ti 334.941 | 687.447 | 687.475 | 686.559 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -6.6694u | -5.6277u | -8.8519u |
| V 292.401 | 276.678 | 277.067 | 275.827 |
| Zn 206.200 | 1460.40 | 1456.12 | 1460.06 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.5760 | ppb | 0.4205 | 73.0 | -78.9844 |
| Al 308.215 | 36909.4 | ppb | 41.7831 | 0.1 | 245006 |
| As 188.980 | 590.752 | ppb | 4.3595 | 0.7 | 313.741 |
| B 249.678 | 27.5788 | ppb | 0.6146 | 2.2 | 22.3300 |
| Ba 389.178 | 638.122 | ppb | 0.6144 | 0.1 | 13014.9 |
| Be 313.042 | 4.8492 | ppb | 0.0013 | 0.0 | 7765.69 |
| Ca 370.602 | 590731 | ppb | 2223 | 0.4 | 1363906 |
| Cd 226.502 | 7.4629 | ppb | 0.3778 | 5.1 | 1025.51 |
| Co 228.615 | 56.0177 | ppb | 0.6714 | 1.2 | 612.330 |
| Cr 267.716 | 192.088 | ppb | 0.1655 | 0.1 | 9666.69 |
| Cu 324.754 | 1726.87 | ppb | 4.4684 | 0.3 | 121448 |
| Fe 271.441 | 205342 | ppb | 90.6176 | 0.0 | 289189 |
| K 766.491 | 3754.33 | ppb | 3.3207 | 0.1 | 160929 |
| Mg 279.078 | 16281.4 | ppb | 18.5119 | 0.1 | 39500.3 |
| Mn 257.610 | 3360.43 | ppb | 2.4991 | 0.1 | 695661 |
| Mo 202.032 | 23.0610 | ppb | 0.2592 | 1.1 | 139.961 |
| Na 330.237 | 495.003 | ppb | 109.995 | 22.2 | -40.1723 |
| Ni 231.604 | 156.358 | ppb | 1.9265 | 1.2 | 443.903 |
| Pb 220.353 | 547.358 | ppb | 2.2062 | 0.4 | 768.497 |
| Sb 206.834 | 9.8804 | ppb | 1.5837 | 16.0 | 21.9658 |
| Se 196.026 | 5.8382 | ppb | 9.1472 | 156.7 | 7.1877 |
| Sn 189.925 | 43.5529 | ppb | 6.1797 | 14.2 | 23.2623 |
| Sr 216.596 | 209.389 | ppb | 0.8027 | 0.4 | 2709.12 |
| Ti 334.941 | 687.160 | ppb | 0.5212 | 0.1 | 190665 |
| Tl 190.794 | -7.0497 | ppb | 1.6454 | 23.3 | -35.4830 |
| V 292.401 | 276.524 | ppb | 0.6345 | 0.2 | 7231.52 |
| Zn 206.200 | 1458.86 | ppb | 2.3807 | 0.2 | 1309.02 |

**680-106194-a-24-a (Samp)** **10/15/2014, 10:19:07 PM** **Rack 3, Tube 44**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.5054u | -0.9686u | -0.9348u |
| Al 308.215 | 10810.6 | 10808.7 | 10792.4 |
| As 188.980 | 31.9738 | 26.4915 | 24.9389 |
| B 249.678 | 6.5889 | 5.8111 | 5.7333 |
| Ba 389.178 | 424.341 | 422.638 | 420.884 |
| Be 313.042 | 1.1675 | 1.1605 | 1.1626 |
| Ca 370.602 | 1897501x | 1900385x | 1870968x |
| Cd 226.502 | 0.8551 | 0.8831 | 0.7551 |
| Co 228.615 | 7.9290 | 7.2958 | 7.5816 |
| Cr 267.716 | 38.6996 | 38.1743 | 38.1492 |
| Cu 324.754 | 10.5255 | 9.8799 | 9.7422 |
| Fe 271.441 | 25534.5 | 25521.2 | 25474.5 |
| K 766.491 | 1216.77 | 1218.32 | 1217.72 |
| Mg 279.078 | 23943.6 | 23922.2 | 23885.3 |
| Mn 257.610 | 2370.73 | 2367.97 | 2368.56 |
| Mo 202.032 | 0.7817 | 1.0801 | 2.4917 |
| Na 330.237 | 401.041 | 519.093 | 205.844 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 12.5330 | 13.1284 | 10.1637 |
| Pb 220.353 | 33.1237 | 37.8783 | 32.0092 |
| Sb 206.834 | 0.9430 | 4.6141 | -1.6095u |
| Se 196.026 | 14.5064 | -9.9459u | 5.0341 |
| Sn 189.925 | 6.4811 | 15.7919 | 5.7847 |
| Sr 216.596 | 273.179 | 271.028 | 272.146 |
| Ti 334.941 | 148.750 | 148.585 | 148.596 |
| Tl 190.794 | -2.9011u | -5.9469u | -4.2543u |
| V 292.401 | 50.7133 | 50.1077 | 50.4186 |
| Zn 206.200 | 43.5678 | 44.7297 | 42.8287 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.8029b | ppb | 0.2582 | 32.2 | -79.2811 |
| Al 308.215 | 10803.9b | ppb | 10.0172 | 0.1 | 71934.9 |
| As 188.980 | 27.8014b | ppb | 3.6959 | 13.3 | 12.4594 |
| B 249.678 | 6.0444b | ppb | 0.4731 | 7.8 | 73.3835 |
| Ba 389.178 | 422.621b | ppb | 1.7287 | 0.4 | 8563.69 |
| Be 313.042 | 1.1635b | ppb | 0.0035 | 0.3 | 2159.01 |
| Ca 370.602 | 1889618xb | ppb | 16215 | 0.9 | 4368055 |
| Cd 226.502 | 0.8311b | ppb | 0.0673 | 8.1 | 135.708 |
| Co 228.615 | 7.6022b | ppb | 0.3171 | 4.2 | 86.8078 |
| Cr 267.716 | 38.3410b | ppb | 0.3108 | 0.8 | 1955.30 |
| Cu 324.754 | 10.0492b | ppb | 0.4182 | 4.2 | 964.587 |
| Fe 271.441 | 25510.1b | ppb | 31.4581 | 0.1 | 35932.8 |
| K 766.491 | 1217.60b | ppb | 0.7823 | 0.1 | 52411.9 |
| Mg 279.078 | 23917.0b | ppb | 29.4627 | 0.1 | 58078.3 |
| Mn 257.610 | 2369.09b | ppb | 1.4554 | 0.1 | 490218 |
| Mo 202.032 | 1.4512b | ppb | 0.9134 | 62.9 | 14.1172 |
| Na 330.237 | 375.326b | ppb | 158.200 | 42.2 | 32.6214 |
| Ni 231.604 | 11.9417b | ppb | 1.5683 | 13.1 | 30.2368 |
| Pb 220.353 | 34.3371b | ppb | 3.1170 | 9.1 | 48.1169 |
| Sb 206.834 | 1.3158b | ppb | 3.1285 | 237.8 | 4.0096 |
| Se 196.026 | 3.1982b | ppb | 12.3291 | 385.5 | 4.6191 |
| Sn 189.925 | 9.3526b | ppb | 5.5875 | 59.7 | 0.7764 |
| Sr 216.596 | 272.117b | ppb | 1.0758 | 0.4 | 3648.16 |
| Ti 334.941 | 148.644b | ppb | 0.0924 | 0.1 | 41227.5 |
| Tl 190.794 | -4.3674b | ppb | 1.5261 | 34.9 | -12.1277 |
| V 292.401 | 50.4132b | ppb | 0.3028 | 0.6 | 1309.17 |
| Zn 206.200 | 43.7087b | ppb | 0.9583 | 2.2 | 39.5661 |

**680-106194-a-14-a (Samp)** **10/15/2014, 10:23:25 PM** **Rack 3, Tube 45**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -4.1377u | -4.4493u | -4.4030u |
| Al 308.215 | 202867 | 203292 | 203605 |
| As 188.980 | 358.238 | 356.377 | 350.113 |
| B 249.678 | 14.6104u | 15.8407u | 16.4794u |
| Ba 389.178 | 429.341 | 429.297 | 430.712 |
| Be 313.042 | 19.0403 | 19.1063 | 19.0995 |
| Ca 370.602 | 20520 | 20472 | 20427 |
| Cd 226.502 | -2.1531 | -1.8564 | -1.3252 |
| Co 228.615 | 80.1558 | 79.2483 | 79.1332 |
| Cr 267.716 | 251.503 | 251.577 | 251.103 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 283.325 | 284.863 | 282.657 |
| Fe 271.441 | 337585 | 338040 | 338771 |
| K 766.491 | 11434.6 | 11450.1 | 11457.8 |
| Mg 279.078 | 11683.6 | 11694.3 | 11721.7 |
| Mn 257.610 | 2549.57 | 2551.13 | 2554.70 |
| Mo 202.032 | 70.3559 | 71.6228 | 70.8752 |
| Na 330.237 | 541.264u | 625.984u | 486.971u |
| Ni 231.604 | 265.825 | 265.651 | 267.224 |
| Pb 220.353 | 293.679 | 297.036 | 296.815 |
| Sb 206.834 | 1.1568 | 1.8948 | -0.1408 |
| Se 196.026 | -3.9168 | 1.5381 | -6.9411 |
| Sn 189.925 | 26.3011 | 26.8991 | 24.8275 |
| Sr 216.596 | 47.9262 | 47.1299 | 47.8230 |
| Ti 334.941 | 907.003 | 909.045 | 908.172 |
| Tl 190.794 | -7.2470u | -13.6751u | -1.9096u |
| V 292.401 | 442.276 | 443.785 | 444.175 |
| Zn 206.200 | 308.583 | 312.288 | 312.723 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -4.3300 | ppb | 0.1682 | 3.9 | -386.066 |
| Al 308.215 | 203255 | ppb | 370.884 | 0.2 | 1346007 |
| As 188.980 | 354.910 | ppb | 4.2568 | 1.2 | 187.910 |
| B 249.678 | 15.6435 | ppb | 0.9500 | 6.1 | -437.012 |
| Ba 389.178 | 429.783 | ppb | 0.8044 | 0.2 | 8850.49 |
| Be 313.042 | 19.0821 | ppb | 0.0363 | 0.2 | 30771.2 |
| Ca 370.602 | 20473 | ppb | 46.55 | 0.2 | 44420 |
| Cd 226.502 | -1.7782 | ppb | 0.4194 | 23.6 | 1154.34 |
| Co 228.615 | 79.5124 | ppb | 0.5601 | 0.7 | 868.461 |
| Cr 267.716 | 251.394 | ppb | 0.2550 | 0.1 | 12664.8 |
| Cu 324.754 | 283.615 | ppb | 1.1311 | 0.4 | 20278.0 |
| Fe 271.441 | 338132 | ppb | 598.779 | 0.2 | 476196 |
| K 766.491 | 11447.5 | ppb | 11.8064 | 0.1 | 490029 |
| Mg 279.078 | 11699.9 | ppb | 19.6336 | 0.2 | 28327.7 |
| Mn 257.610 | 2551.80 | ppb | 2.6285 | 0.1 | 528780 |
| Mo 202.032 | 70.9513 | ppb | 0.6369 | 0.9 | 430.490 |
| Na 330.237 | 551.406 | ppb | 70.0593 | 12.7 | -40.6213 |
| Ni 231.604 | 266.233 | ppb | 0.8623 | 0.3 | 758.428 |
| Pb 220.353 | 295.843 | ppb | 1.8776 | 0.6 | 399.456 |
| Sb 206.834 | 0.9703 | ppb | 1.0305 | 106.2 | 14.0684 |
| Se 196.026 | -3.1066 | ppb | 4.2973 | 138.3 | 4.5960 |
| Sn 189.925 | 26.0092 | ppb | 1.0662 | 4.1 | 11.7274 |
| Sr 216.596 | 47.6264 | ppb | 0.4331 | 0.9 | 884.496 |
| Ti 334.941 | 908.073 | ppb | 1.0246 | 0.1 | 251979 |
| Tl 190.794 | -7.6105 | ppb | 5.8912 | 77.4 | -52.2062 |
| V 292.401 | 443.412 | ppb | 1.0030 | 0.2 | 11596.4 |
| Zn 206.200 | 311.198 | ppb | 2.2751 | 0.7 | 268.400 |

**680-106194-a-17-a (Samp)** **10/15/2014, 10:27:43 PM** **Rack 3, Tube 46**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -3.8683u | -4.3305u | -4.2284u |
| Al 308.215 | 134694 | 134650 | 134460 |
| As 188.980 | 387.989 | 377.462 | 384.492 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 2.4997u | 2.7609u | 3.0501u |
| Ba 389.178 | 2414.07 | 2416.63 | 2415.03 |
| Be 313.042 | 32.3417 | 32.3961 | 32.3882 |
| Ca 370.602 | 43648 | 43664 | 43588 |
| Cd 226.502 | 2.9076 | 3.0036 | 2.4929 |
| Co 228.615 | 260.657 | 257.578 | 255.656 |
| Cr 267.716 | 159.623 | 160.489 | 159.642 |
| Cu 324.754 | 329.985 | 331.727 | 331.965 |
| Fe 271.441 | 384102 | 384866 | 383869 |
| K 766.491 | 9756.95 | 9778.16 | 9776.22 |
| Mg 279.078 | 7233.32 | 7258.61 | 7223.86 |
| Mn 257.610 | 67610.7x | 67768.3x | 67846.2x |
| Mo 202.032 | 35.4940 | 35.8735 | 35.9862 |
| Na 330.237 | -8.3616u | 141.912u | 170.506u |
| Ni 231.604 | 468.165 | 469.898 | 465.041 |
| Pb 220.353 | 223.155 | 225.125 | 216.597 |
| Sb 206.834 | 3.8002 | 2.5891 | 0.6965 |
| Se 196.026 | 2.7018 | 3.8505 | 0.7524 |
| Sn 189.925 | 19.0796 | 19.0447 | 27.7998 |
| Sr 216.596 | 83.2425 | 83.3467 | 83.4209 |
| Ti 334.941 | 896.838 | 898.128 | 897.621 |
| Tl 190.794 | 16.4192 | 16.6942 | 23.3909 |
| V 292.401 | 529.631 | 530.172 | 529.270 |
| Zn 206.200 | 260.688 | 263.073 | 260.796 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -4.1424b | ppb | 0.2428 | 5.9 | -73.8946 |
| Al 308.215 | 134601b | ppb | 124.311 | 0.1 | 891785 |
| As 188.980 | 383.315b | ppb | 5.3615 | 1.4 | 202.339 |
| B 249.678 | 2.7702b | ppb | 0.2754 | 9.9 | -726.000 |
| Ba 389.178 | 2415.24b | ppb | 1.2910 | 0.1 | 49134.6 |
| Be 313.042 | 32.3753b | ppb | 0.0294 | 0.1 | 52404.5 |
| Ca 370.602 | 43633b | ppb | 39.84 | 0.1 | 98849 |
| Cd 226.502 | 2.8014b | ppb | 0.2714 | 9.7 | 1486.28 |
| Co 228.615 | 257.964b | ppb | 2.5228 | 1.0 | 2730.47 |
| Cr 267.716 | 159.918b | ppb | 0.4943 | 0.3 | 8433.28 |
| Cu 324.754 | 331.226b | ppb | 1.0809 | 0.3 | 23633.2 |
| Fe 271.441 | 384279b | ppb | 521.781 | 0.1 | 541202 |
| K 766.491 | 9770.44b | ppb | 11.7277 | 0.1 | 418287 |
| Mg 279.078 | 7238.60b | ppb | 17.9640 | 0.2 | 16314.8 |
| Mn 257.610 | 67741.7xb | ppb | 119.984 | 0.2 | 14009608 |
| Mo 202.032 | 35.7846b | ppb | 0.2579 | 0.7 | 210.864 |
| Na 330.237 | 101.352b | ppb | 96.0846 | 94.8 | -71.4699 |
| Ni 231.604 | 467.701b | ppb | 2.4614 | 0.5 | 1319.54 |
| Pb 220.353 | 221.626b | ppb | 4.4647 | 2.0 | 303.741 |
| Sb 206.834 | 2.3619b | ppb | 1.5643 | 66.2 | 16.9173 |
| Se 196.026 | 2.4349b | ppb | 1.5662 | 64.3 | 19.5555 |
| Sn 189.925 | 21.9747b | ppb | 5.0447 | 23.0 | 9.0746 |
| Sr 216.596 | 83.3367b | ppb | 0.0896 | 0.1 | 1325.30 |
| Ti 334.941 | 897.529b | ppb | 0.6501 | 0.1 | 249047 |
| Tl 190.794 | 18.8348b | ppb | 3.9481 | 21.0 | -1.4902 |
| V 292.401 | 529.691b | ppb | 0.4540 | 0.1 | 13858.2 |
| Zn 206.200 | 261.519b | ppb | 1.3469 | 0.5 | 222.092 |

**680-106194-a-28-a (Samp)** **10/15/2014, 10:32:01 PM** **Rack 3, Tube 47**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -1.8794u | -2.5850u | -1.8712u |
| Al 308.215 | 140438 | 140641 | 140610 |
| As 188.980 | 221.795 | 226.245 | 236.760 |
| B 249.678 | 17.1327u | 17.3308u | 16.6222u |
| Ba 389.178 | 427.112 | 427.437 | 427.203 |
| Be 313.042 | 16.4868 | 16.4741 | 16.4527 |
| Ca 370.602 | 129234 | 128852 | 128351 |
| Cd 226.502 | 1.8036 | 1.4268 | 2.2819 |
| Co 228.615 | 98.0734 | 97.1474 | 98.6806 |
| Cr 267.716 | 305.805 | 305.326 | 305.627 |
| Cu 324.754 | 653.914 | 654.943 | 648.760 |
| Fe 271.441 | 307686 | 307525 | 308261 |
| K 766.491 | 12322.5 | 12355.3 | 12317.6 |
| Mg 279.078 | 53545.4 | 53512.8 | 53550.5 |
| Mn 257.610 | 4250.47 | 4236.05 | 4231.58 |
| Mo 202.032 | 22.2254 | 20.6780 | 21.0956 |
| Na 330.237 | 204.421u | 197.959u | 372.490u |
| Ni 231.604 | 277.936 | 275.157 | 274.938 |
| Pb 220.353 | 301.487 | 301.823 | 299.660 |
| Sb 206.834 | 1.4445 | -5.6024 | 0.6183 |
| Se 196.026 | -7.8881 | 2.1066 | -1.1806 |
| Sn 189.925 | 30.4524 | 30.0316 | 28.8617 |
| Sr 216.596 | 144.163 | 142.605 | 144.441 |
| Ti 334.941 | 1102.46 | 1102.80 | 1100.35 |
| Tl 190.794 | -5.9278u | -13.3813u | -6.9170u |
| V 292.401 | 445.242 | 444.589 | 445.320 |
| Zn 206.200 | 1648.70 | 1646.10 | 1657.05 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -2.1119 | ppb | 0.4098 | 19.4 | -205.987 |
| Al 308.215 | 140563 | ppb | 109.409 | 0.1 | 931101 |
| As 188.980 | 228.267 | ppb | 7.6850 | 3.4 | 119.614 |
| B 249.678 | 17.0286 | ppb | 0.3656 | 2.1 | -350.759 |
| Ba 389.178 | 427.251 | ppb | 0.1677 | 0.0 | 8836.40 |
| Be 313.042 | 16.4712 | ppb | 0.0172 | 0.1 | 26554.7 |
| Ca 370.602 | 128813 | ppb | 442.9 | 0.3 | 295272 |
| Cd 226.502 | 1.8374 | ppb | 0.4285 | 23.3 | 1178.91 |
| Co 228.615 | 97.9671 | ppb | 0.7721 | 0.8 | 1063.76 |
| Cr 267.716 | 305.586 | ppb | 0.2421 | 0.1 | 15347.4 |
| Cu 324.754 | 652.539 | ppb | 3.3132 | 0.5 | 46138.2 |
| Fe 271.441 | 307824 | ppb | 387.213 | 0.1 | 433516 |
| K 766.491 | 12331.8 | ppb | 20.5006 | 0.2 | 527856 |
| Mg 279.078 | 53536.2 | ppb | 20.4574 | 0.0 | 129960 |
| Mn 257.610 | 4239.37 | ppb | 9.8712 | 0.2 | 877973 |
| Mo 202.032 | 21.3330 | ppb | 0.8006 | 3.8 | 124.762 |
| Na 330.237 | 258.290 | ppb | 98.9530 | 38.3 | -80.8244 |
| Ni 231.604 | 276.010 | ppb | 1.6716 | 0.6 | 783.070 |
| Pb 220.353 | 300.990 | ppb | 1.1639 | 0.4 | 409.784 |
| Sb 206.834 | -1.1799 | ppb | 3.8523 | 326.5 | 11.6673 |
| Se 196.026 | -2.3207 | ppb | 5.0940 | 219.5 | 4.9839 |
| Sn 189.925 | 29.7819 | ppb | 0.8242 | 2.8 | 14.2078 |
| Sr 216.596 | 143.736 | ppb | 0.9894 | 0.7 | 1938.36 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 1101.87 | ppb | 1.3247 | 0.1 | 305818 |
| Tl 190.794 | -8.7420 | ppb | 4.0481 | 46.3 | -48.6005 |
| V 292.401 | 445.050 | ppb | 0.4013 | 0.1 | 11637.1 |
| Zn 206.200 | 1650.62 | ppb | 5.7211 | 0.3 | 1477.84 |

**680-106194-a-16-a (Samp)** **10/15/2014, 10:36:19 PM** **Rack 3, Tube 48**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -1.4887u | -1.9206u | -1.2808u |
| Al 308.215 | 95297.9 | 95220.9 | 95275.1 |
| As 188.980 | 194.449 | 187.623 | 204.975 |
| B 249.678 | 12.6450u | 13.6820u | 13.3588u |
| Ba 389.178 | 166.256 | 167.588 | 166.318 |
| Be 313.042 | 9.0558 | 9.0582 | 9.0678 |
| Ca 370.602 | 598346 | 597894 | 599161 |
| Cd 226.502 | 0.1978 | 0.1813 | 0.2903 |
| Co 228.615 | 52.2701 | 52.1634 | 52.4017 |
| Cr 267.716 | 129.830 | 130.298 | 130.141 |
| Cu 324.754 | 146.059 | 146.169 | 144.660 |
| Fe 271.441 | 163860 | 163763 | 163989 |
| K 766.491 | 10198.8 | 10200.3 | 10226.5 |
| Mg 279.078 | 356016 | 355319 | 356478 |
| Mn 257.610 | 2712.86 | 2711.14 | 2711.56 |
| Mo 202.032 | 17.7683 | 16.2434 | 17.0149 |
| Na 330.237 | 285.639u | 391.777u | 382.099u |
| Ni 231.604 | 165.444 | 163.445 | 162.532 |
| Pb 220.353 | 127.365 | 132.735 | 131.438 |
| Sb 206.834 | 4.4526 | 2.4363 | 3.6186 |
| Se 196.026 | 3.9655 | 5.8422 | -6.2034u |
| Sn 189.925 | 9.2437 | 8.4362 | 9.0199 |
| Sr 216.596 | 131.835 | 131.972 | 132.052 |
| Ti 334.941 | 482.750 | 482.399 | 483.014 |
| Tl 190.794 | -6.6573u | -8.8631u | -13.9840u |
| V 292.401 | 226.983 | 226.736 | 227.435 |
| Zn 206.200 | 142.959 | 143.995 | 146.560 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -1.5634 | ppb | 0.3264 | 20.9 | -154.639 |
| Al 308.215 | 95264.6 | ppb | 39.5332 | 0.0 | 631087 |
| As 188.980 | 195.682 | ppb | 8.7418 | 4.5 | 102.507 |
| B 249.678 | 13.2286 | ppb | 0.5306 | 4.0 | -107.515 |
| Ba 389.178 | 166.720 | ppb | 0.7520 | 0.5 | 3863.68 |
| Be 313.042 | 9.0606 | ppb | 0.0064 | 0.1 | 14615.6 |
| Ca 370.602 | 598467 | ppb | 642.0 | 0.1 | 1382109 |
| Cd 226.502 | 0.2231 | ppb | 0.0588 | 26.3 | 610.327 |
| Co 228.615 | 52.2784 | ppb | 0.1193 | 0.2 | 566.954 |
| Cr 267.716 | 130.090 | ppb | 0.2378 | 0.2 | 6569.88 |
| Cu 324.754 | 145.630 | ppb | 0.8414 | 0.6 | 10528.9 |
| Fe 271.441 | 163871 | ppb | 113.507 | 0.1 | 230786 |
| K 766.491 | 10208.5 | ppb | 15.5472 | 0.2 | 437028 |
| Mg 279.078 | 355938 | ppb | 583.234 | 0.2 | 864690 |
| Mn 257.610 | 2711.85 | ppb | 0.8990 | 0.0 | 563898 |
| Mo 202.032 | 17.0089 | ppb | 0.7625 | 4.5 | 104.331 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 353.172 | ppb | 58.6848 | 16.6 | -4.0841 |
| Ni 231.604 | 163.807 | ppb | 1.4895 | 0.9 | 461.396 |
| Pb 220.353 | 130.513 | ppb | 2.8021 | 2.1 | 175.807 |
| Sb 206.834 | 3.5025 | ppb | 1.0131 | 28.9 | 11.7528 |
| Se 196.026 | 1.2014 | ppb | 6.4810 | 539.4 | 4.9637 |
| Sn 189.925 | 8.8999 | ppb | 0.4169 | 4.7 | 0.4786 |
| Sr 216.596 | 131.953 | ppb | 0.1098 | 0.1 | 1818.90 |
| Ti 334.941 | 482.721 | ppb | 0.3081 | 0.1 | 134504 |
| Tl 190.794 | -9.8348 | ppb | 3.7588 | 38.2 | -33.5675 |
| V 292.401 | 227.051 | ppb | 0.3540 | 0.2 | 5938.51 |
| Zn 206.200 | 144.504 | ppb | 1.8537 | 1.3 | 124.993 |

**Cont Calib Verif (CCV)** **10/15/2014, 10:40:37 PM** **Rack 3, Tube 49**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 487.112 | 488.977 | 485.890 |
| Al 308.215 | 4833.16 | 4835.25 | 4841.55 |
| As 188.980 | 456.645 | 457.774 | 455.613 |
| B 249.678 | 481.471 | 480.101 | 480.677 |
| Ba 389.178 | 4758.66 | 4762.08 | 4753.06 |
| Be 313.042 | 478.796 | 478.221 | 475.874 |
| Ca 370.602 | 4843 | 4832 | 4812 |
| Cd 226.502 | 472.584 | 472.646 | 473.504 |
| Co 228.615 | 481.964 | 482.082 | 482.483 |
| Cr 267.716 | 4764.74 | 4763.89 | 4754.13 |
| Cu 324.754 | 5012.50 | 5043.63 | 5007.40 |
| Fe 271.441 | 4797.71 | 4816.47 | 4799.11 |
| K 766.491 | 10043.5 | 10043.4 | 10050.5 |
| Mg 279.078 | 4844.08 | 4857.02 | 4872.50 |
| Mn 257.610 | 4889.07 | 4896.82 | 4881.52 |
| Mo 202.032 | 477.862 | 478.436 | 478.093 |
| Na 330.237 | 7534.31 | 7471.27 | 7532.57 |
| Ni 231.604 | 2409.58 | 2409.66 | 2412.04 |
| Pb 220.353 | 480.220 | 481.249 | 480.697 |
| Sb 206.834 | 911.839 | 918.602 | 916.886 |
| Se 196.026 | 4716.61 | 4747.07 | 4769.54 |
| Sn 189.925 | 4811.94 | 4783.74 | 4774.36 |
| Sr 216.596 | 2333.46 | 2337.04 | 2340.69 |
| Ti 334.941 | 481.672 | 481.950 | 480.660 |
| Tl 190.794 | 4852.33 | 4860.10 | 4836.02 |
| V 292.401 | 4790.39 | 4787.39 | 4786.64 |
| Zn 206.200 | 2331.53 | 2326.52 | 2336.72 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 487.326 | ppb | 1.5546 | 0.3 | 37639.8 | 97.46529 |
| Al 308.215 | 4836.65 | ppb | 4.3684 | 0.1 | 32900.1 | 96.73309 |
| As 188.980 | 456.678 | ppb | 1.0810 | 0.2 | 242.493 | 91.33550 |
| B 249.678 | 480.750 | ppb | 0.6876 | 0.1 | 7307.12 | 96.14992 |
| Ba 389.178 | 4757.94 | ppb | 4.5540 | 0.1 | 96466.6 | 95.15873 |
| Be 313.042 | 477.630 | ppb | 1.5479 | 0.3 | 777424 | 95.52608 |
| Ca 370.602 | 4829 | ppb | 15.60 | 0.3 | 11432 | 96.57501 |
| Cd 226.502 | 472.911 | ppb | 0.5143 | 0.1 | 17728.8 | 94.58228 |
| Co 228.615 | 482.177 | ppb | 0.2722 | 0.1 | 5030.26 | 96.43530 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Cr 267.716 | 4760.92 | ppb | 5.8947 | 0.1 | 236251 | 95.21841 |
| Cu 324.754 | 5021.17 | ppb | 19.6112 | 0.4 | 352371 | 100.42345 |
| Fe 271.441 | 4804.43 | ppb | 10.4491 | 0.2 | 6868.09 | 96.08856 |
| K 766.491 | 10045.8 | ppb | 4.0333 | 0.0 | 430066 | 100.45801 |
| Mg 279.078 | 4857.87 | ppb | 14.2299 | 0.3 | 11729.6 | 97.15738 |
| Mn 257.610 | 4889.14 | ppb | 7.6492 | 0.2 | 1011123 | 97.78271 |
| Mo 202.032 | 478.131 | ppb | 0.2889 | 0.1 | 2960.17 | 95.62611 |
| Na 330.237 | 7512.72 | ppb | 35.9077 | 0.5 | 321.810 | 100.16955 |
| Ni 231.604 | 2410.42 | ppb | 1.3983 | 0.1 | 6671.81 | 96.41696 |
| Pb 220.353 | 480.722 | ppb | 0.5145 | 0.1 | 689.030 | 96.14439 |
| Sb 206.834 | 915.776 | ppb | 3.5157 | 0.4 | 1252.18 | 91.57758 |
| Se 196.026 | 4744.41 | ppb | 26.5634 | 0.6 | 1830.38 | 94.88812 |
| Sn 189.925 | 4790.01 | ppb | 19.5582 | 0.4 | 3143.99 | 95.80020 |
| Sr 216.596 | 2337.07 | ppb | 3.6149 | 0.2 | 25479.1 | 93.48264 |
| Ti 334.941 | 481.427 | ppb | 0.6789 | 0.1 | 133534 | 96.28545 |
| Tl 190.794 | 4849.48 | ppb | 12.2917 | 0.3 | 4743.15 | 96.98963 |
| V 292.401 | 4788.14 | ppb | 1.9823 | 0.0 | 123822 | 95.76279 |
| Zn 206.200 | 2331.59 | ppb | 5.1039 | 0.2 | 2092.27 | 93.26363 |

**Cont Calib Blank (CCB)** **10/15/2014, 10:44:55 PM** **Rack 3, Tube 50**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0514u | 0.0443 | -0.0585u |
| Al 308.215 | 13.9664 | 13.3023 | 15.8087 |
| As 188.980 | -0.0216u | 5.6708 | 5.6620 |
| B 249.678 | 8.5208 | 7.2400 | 6.3588 |
| Ba 389.178 | 0.1900 | 0.1992 | 0.6990 |
| Be 313.042 | 0.0715 | 0.0699 | 0.0881 |
| Ca 370.602 | 17.93 | 23.35 | 29.24 |
| Cd 226.502 | 0.1529 | 0.0435 | 0.0786 |
| Co 228.615 | -0.0322u | 0.3484 | 0.2286 |
| Cr 267.716 | 0.5035 | 0.3642 | 0.8175 |
| Cu 324.754 | 0.6160 | 0.7793 | 0.8115 |
| Fe 271.441 | 10.8424 | 14.3407 | 18.2739 |
| K 766.491 | -0.7526u | -0.8741u | -0.1212u |
| Mg 279.078 | 8.4721 | 10.0801 | 14.6301 |
| Mn 257.610 | 0.9968 | 1.0392 | 1.5008 |
| Mo 202.032 | 0.8357 | 0.4781 | 0.0014 |
| Na 330.237 | -14.6080u | -74.0845u | -68.6521u |
| Ni 231.604 | 0.2113 | 0.1743 | 2.0268 |
| Pb 220.353 | 1.3600 | 1.8208 | 0.6884 |
| Sb 206.834 | 7.0582 | 2.8992 | 2.1173 |
| Se 196.026 | 4.7757 | 9.6510 | 2.9705 |
| Sn 189.925 | -1.4224u | 5.4429 | 2.7344 |
| Sr 216.596 | 0.1785 | 0.3610 | 0.3132 |
| Ti 334.941 | 0.2354 | 0.1955 | 0.2498 |
| Tl 190.794 | 1.6165 | 1.0011 | 1.8368 |
| V 292.401 | 0.5851 | 0.8697 | 0.7925 |
| Zn 206.200 | 0.8460 | -0.3203u | 1.2118 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | -0.0219 | ppb | 0.0574 | 262.2 | -12.1465 | -0.02188 |
| Al 308.215 | 14.3591 | ppb | 1.2985 | 9.0 | 489.496 | 14.35915 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| As 188.980 | 3.7704 | ppb | 3.2839 | 87.1 | -0.3892 | 3.77039 |
| B 249.678 | 7.3732 | ppb | 1.0871 | 14.7 | 146.987 | 7.37320 |
| Ba 389.178 | 0.3627 | ppb | 0.2913 | 80.3 | -43.4040 | 0.36275 |
| Be 313.042 | 0.0765 | ppb | 0.0101 | 13.1 | -192.539 | 0.07649 |
| Ca 370.602 | 23.51 | ppb | 5.653 | 24.0 | 65.46 | 23.50702 |
| Cd 226.502 | 0.0917 | ppb | 0.0559 | 61.0 | 16.6775 | 0.09167 |
| Co 228.615 | 0.1816 | ppb | 0.1946 | 107.2 | 5.0385 | 0.18162 |
| Cr 267.716 | 0.5617 | ppb | 0.2322 | 41.3 | 59.0062 | 0.56171 |
| Cu 324.754 | 0.7356 | ppb | 0.1048 | 14.2 | 301.496 | 0.73561 |
| Fe 271.441 | 14.4857 | ppb | 3.7178 | 25.7 | 27.2636 | 14.48569 |
| K 766.491 | -0.5826 | ppb | 0.4042 | 69.4 | 300.159 | -0.58262 |
| Mg 279.078 | 11.0608 | ppb | 3.1940 | 28.9 | 45.7780 | 11.06078 |
| Mn 257.610 | 1.1789 | ppb | 0.2796 | 23.7 | 284.600 | 1.17893 |
| Mo 202.032 | 0.4384 | ppb | 0.4186 | 95.5 | 8.9874 | 0.43842 |
| Na 330.237 | -52.4482 | ppb | 32.8829 | 62.7 | 19.5166 | -52.44822 |
| Ni 231.604 | 0.8041 | ppb | 1.0590 | 131.7 | -2.5489 | 0.80413 |
| Pb 220.353 | 1.2897 | ppb | 0.5694 | 44.2 | 2.2739 | 1.28973 |
| Sb 206.834 | 4.0249 | ppb | 2.6558 | 66.0 | 6.4287 | 4.02491 |
| Se 196.026 | 5.7990 | ppb | 3.4558 | 59.6 | 4.9731 | 5.79904 |
| Sn 189.925 | 2.2516 | ppb | 3.4580 | 153.6 | -3.8924 | 2.25164 |
| Sr 216.596 | 0.2842 | ppb | 0.0946 | 33.3 | 5.4967 | 0.28425 |
| Ti 334.941 | 0.2269 | ppb | 0.0281 | 12.4 | 1.1011 | 0.22687 |
| Tl 190.794 | 1.4848 | ppb | 0.4331 | 29.2 | -4.5106 | 1.48479 |
| V 292.401 | 0.7491 | ppb | 0.1472 | 19.6 | 12.2448 | 0.74914 |
| Zn 206.200 | 0.5792 | ppb | 0.8001 | 138.2 | 1.7273 | 0.57916 |

**680-106194-a-13-a (Samp)** **10/15/2014, 10:49:13 PM** **Rack 3, Tube 51**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -6.2985u | -6.7875u | -7.0324u |
| Al 308.215 | 289102 | 289176 | 289505 |
| As 188.980 | 359.049 | 376.068 | 367.131 |
| B 249.678 | 47.9381u | 47.9465u | 49.1148u |
| Ba 389.178 | 471.669 | 473.566 | 471.847 |
| Be 313.042 | 14.9206 | 14.9377 | 14.9038 |
| Ca 370.602 | 25142 | 25057 | 25071 |
| Cd 226.502 | -4.5208 | -4.3706 | -4.4709 |
| Co 228.615 | 344.177 | 342.095 | 340.595 |
| Cr 267.716 | 357.704 | 357.876 | 357.720 |
| Cu 324.754 | 307.858 | 309.195 | 311.287 |
| Fe 271.441 | 425975 | 426314 | 425679 |
| K 766.491 | 18406.2 | 18395.5 | 18331.8 |
| Mg 279.078 | 14738.7 | 14746.9 | 14755.8 |
| Mn 257.610 | 3438.06 | 3434.30 | 3439.09 |
| Mo 202.032 | 60.1823 | 59.8926 | 60.2999 |
| Na 330.237 | 196.574u | 253.318u | 286.672u |
| Ni 231.604 | 254.798 | 256.414 | 258.368 |
| Pb 220.353 | 451.241 | 462.013 | 453.595 |
| Sb 206.834 | -0.4830 | 2.5872 | -2.4538 |
| Se 196.026 | 2.9316 | -0.4220 | -8.1014 |
| Sn 189.925 | 32.3295 | 31.9957 | 22.7492 |
| Sr 216.596 | 85.2411 | 86.8915 | 85.8615 |
| Ti 334.941 | 1194.56 | 1193.72 | 1191.91 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -8.7154u | -13.8703u | -11.9764u |
| V 292.401 | 680.583 | 680.046 | 678.317 |
| Zn 206.200 | 385.395 | 387.087 | 387.967 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -6.7061 | ppb | 0.3737 | 5.6 | -579.372 |
| Al 308.215 | 289261 | ppb | 214.453 | 0.1 | 1915298 |
| As 188.980 | 367.416 | ppb | 8.5130 | 2.3 | 194.898 |
| B 249.678 | 48.3331 | ppb | 0.6769 | 1.4 | -119.814 |
| Ba 389.178 | 472.361 | ppb | 1.0474 | 0.2 | 9760.40 |
| Be 313.042 | 14.9207 | ppb | 0.0169 | 0.1 | 24013.8 |
| Ca 370.602 | 25090 | ppb | 45.30 | 0.2 | 54386 |
| Cd 226.502 | -4.4541 | ppb | 0.0765 | 1.7 | 1355.83 |
| Co 228.615 | 342.289 | ppb | 1.7988 | 0.5 | 3616.71 |
| Cr 267.716 | 357.767 | ppb | 0.0948 | 0.0 | 17983.1 |
| Cu 324.754 | 309.447 | ppb | 1.7281 | 0.6 | 22120.9 |
| Fe 271.441 | 425989 | ppb | 317.904 | 0.1 | 599952 |
| K 766.491 | 18377.9 | ppb | 40.2144 | 0.2 | 786497 |
| Mg 279.078 | 14747.1 | ppb | 8.5985 | 0.1 | 35686.4 |
| Mn 257.610 | 3437.15 | ppb | 2.5199 | 0.1 | 712126 |
| Mo 202.032 | 60.1249 | ppb | 0.2096 | 0.3 | 359.661 |
| Na 330.237 | 245.521 | ppb | 45.5519 | 18.6 | -77.4204 |
| Ni 231.604 | 256.527 | ppb | 1.7880 | 0.7 | 737.445 |
| Pb 220.353 | 455.616 | ppb | 5.6630 | 1.2 | 621.157 |
| Sb 206.834 | -0.1165 | ppb | 2.5404 | 2179.7 | 16.4116 |
| Se 196.026 | -1.8639 | ppb | 5.6561 | 303.4 | 5.8769 |
| Sn 189.925 | 29.0248 | ppb | 5.4374 | 18.7 | 13.7099 |
| Sr 216.596 | 85.9980 | ppb | 0.8337 | 1.0 | 1395.25 |
| Ti 334.941 | 1193.40 | ppb | 1.3536 | 0.1 | 331170 |
| Tl 190.794 | -11.5207 | ppb | 2.6075 | 22.6 | -64.7001 |
| V 292.401 | 679.649 | ppb | 1.1841 | 0.2 | 17750.4 |
| Zn 206.200 | 386.816 | ppb | 1.3069 | 0.3 | 333.136 |

**680-106194-a-25-a (Samp)** **10/15/2014, 10:53:32 PM** **Rack 3, Tube 52**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -2.9122u | -3.8367u | -3.2058u |
| Al 308.215 | 80163.3 | 80194.4 | 80178.5 |
| As 188.980 | 277.738 | 283.418 | 279.461 |
| B 249.678 | 12.3409u | 12.7325u | 12.1804u |
| Ba 389.178 | 412.764 | 412.309 | 413.033 |
| Be 313.042 | 23.8655 | 23.8428 | 23.8648 |
| Ca 370.602 | 22260 | 22332 | 22265 |
| Cd 226.502 | -2.9383 | -2.7991 | -2.7688 |
| Co 228.615 | 83.4799 | 82.9445 | 82.7313 |
| Cr 267.716 | 206.620 | 207.178 | 206.712 |
| Cu 324.754 | 313.619 | 314.531 | 312.439 |
| Fe 271.441 | 295489 | 295612 | 295256 |
| K 766.491 | 6247.76 | 6241.32 | 6243.07 |
| Mg 279.078 | 8623.47 | 8613.91 | 8610.57 |
| Mn 257.610 | 11323.3 | 11358.7 | 11332.3 |
| Mo 202.032 | 25.3610 | 25.8161 | 24.0788 |
| Na 330.237 | 2595.65 | 2478.42 | 2354.50 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 291.911 | 292.298 | 293.900 |
| Pb 220.353 | 249.708 | 253.147 | 249.118 |
| Sb 206.834 | 2.8073 | 3.6552 | 7.0282 |
| Se 196.026 | 2.7169 | 13.0810 | -6.3709 |
| Sn 189.925 | 13.9695 | 19.4094 | 18.5574 |
| Sr 216.596 | 57.4966 | 55.9856 | 56.6151 |
| Ti 334.941 | 710.332 | 711.453 | 711.065 |
| Tl 190.794 | -8.1437u | -5.8600u | -3.3062u |
| V 292.401 | 325.431 | 325.872 | 325.098 |
| Zn 206.200 | 293.506 | 295.962 | 290.981 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -3.3182 | ppb | 0.4724 | 14.2 | -261.136 |
| Al 308.215 | 80178.7 | ppb | 15.5673 | 0.0 | 531485 |
| As 188.980 | 280.206 | ppb | 2.9122 | 1.0 | 147.037 |
| B 249.678 | 12.4179 | ppb | 0.2840 | 2.3 | -392.151 |
| Ba 389.178 | 412.702 | ppb | 0.3660 | 0.1 | 8477.38 |
| Be 313.042 | 23.8577 | ppb | 0.0129 | 0.1 | 38535.9 |
| Ca 370.602 | 22286 | ppb | 40.06 | 0.2 | 49150 |
| Cd 226.502 | -2.8354 | ppb | 0.0904 | 3.2 | 955.303 |
| Co 228.615 | 83.0519 | ppb | 0.3857 | 0.5 | 899.702 |
| Cr 267.716 | 206.837 | ppb | 0.2991 | 0.1 | 10472.4 |
| Cu 324.754 | 313.530 | ppb | 1.0491 | 0.3 | 22357.5 |
| Fe 271.441 | 295453 | ppb | 180.974 | 0.1 | 416092 |
| K 766.491 | 6244.05 | ppb | 3.3287 | 0.1 | 267434 |
| Mg 279.078 | 8615.99 | ppb | 6.6967 | 0.1 | 20717.5 |
| Mn 257.610 | 11338.1 | ppb | 18.3976 | 0.2 | 2345566 |
| Mo 202.032 | 25.0853 | ppb | 0.9009 | 3.6 | 148.677 |
| Na 330.237 | 2476.19 | ppb | 120.590 | 4.9 | 62.7938 |
| Ni 231.604 | 292.703 | ppb | 1.0544 | 0.4 | 828.294 |
| Pb 220.353 | 250.658 | ppb | 2.1760 | 0.9 | 340.995 |
| Sb 206.834 | 4.4969 | ppb | 2.2328 | 49.7 | 17.6432 |
| Se 196.026 | 3.1423 | ppb | 9.7329 | 309.7 | 8.3288 |
| Sn 189.925 | 17.3121 | ppb | 2.9259 | 16.9 | 6.0098 |
| Sr 216.596 | 56.6991 | ppb | 0.7590 | 1.3 | 936.279 |
| Ti 334.941 | 710.950 | ppb | 0.5691 | 0.1 | 197265 |
| Tl 190.794 | -5.7700 | ppb | 2.4200 | 41.9 | -41.1292 |
| V 292.401 | 325.467 | ppb | 0.3882 | 0.1 | 8530.62 |
| Zn 206.200 | 293.483 | ppb | 2.4909 | 0.8 | 254.243 |

**680-106194-a-18-a (Samp)** **10/15/2014, 10:57:50 PM** **Rack 3, Tube 53**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 13.0826 | 12.7531 | 12.8804 |
| Al 308.215 | 41480.4 | 41554.6 | 41556.0 |
| As 188.980 | 153.037 | 158.923 | 154.080 |
| B 249.678 | 60.4529 | 61.0152 | 61.8789 |
| Ba 389.178 | 604.588 | 605.360 | 604.481 |
| Be 313.042 | 5.7914 | 5.7977 | 5.7850 |
| Ca 370.602 | 768933 | 768378 | 765686 |
| Cd 226.502 | 11.0794 | 11.5489 | 11.6450 |
| Co 228.615 | 349.786 | 348.821 | 351.170 |
| Cr 267.716 | 168.838 | 168.559 | 168.604 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 1532.07 | 1519.09 | 1524.45 |
| Fe 271.441 | 137372 | 137412 | 137777 |
| K 766.491 | 6518.40 | 6516.00 | 6504.48 |
| Mg 279.078 | 42079.3 | 42101.3 | 42138.0 |
| Mn 257.610 | 2408.63 | 2409.64 | 2414.16 |
| Mo 202.032 | 23.3323 | 23.5406 | 23.9162 |
| Na 330.237 | 1900.29 | 1942.28 | 1727.72 |
| Ni 231.604 | 255.002 | 255.349 | 256.163 |
| Pb 220.353 | 1237.49 | 1233.73 | 1246.51 |
| Sb 206.834 | 13.9275 | 13.3022 | 10.9519 |
| Se 196.026 | 11.8822 | 8.2423 | 4.5853 |
| Sn 189.925 | 114.981 | 114.092 | 110.723 |
| Sr 216.596 | 995.639 | 997.753 | 1001.32 |
| Ti 334.941 | 939.953 | 939.546 | 939.199 |
| Tl 190.794 | -7.3638u | -8.1289u | -8.0697u |
| V 292.401 | 446.727 | 446.978 | 448.873 |
| Zn 206.200 | 1870.66 | 1853.77 | 1868.40 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 12.9054b | ppb | 0.1662 | 1.3 | 945.162 |
| Al 308.215 | 41530.4b | ppb | 43.2336 | 0.1 | 275486 |
| As 188.980 | 155.347b | ppb | 3.1407 | 2.0 | 80.5522 |
| B 249.678 | 61.1157b | ppb | 0.7183 | 1.2 | 672.458 |
| Ba 389.178 | 604.810b | ppb | 0.4796 | 0.1 | 12338.3 |
| Be 313.042 | 5.7914b | ppb | 0.0063 | 0.1 | 9360.56 |
| Ca 370.602 | 767666b | ppb | 1736 | 0.2 | 1773657 |
| Cd 226.502 | 11.4244b | ppb | 0.3027 | 2.6 | 930.593 |
| Co 228.615 | 349.926b | ppb | 1.1806 | 0.3 | 3674.29 |
| Cr 267.716 | 168.667b | ppb | 0.1500 | 0.1 | 8469.14 |
| Cu 324.754 | 1525.20b | ppb | 6.5238 | 0.4 | 107274 |
| Fe 271.441 | 137520b | ppb | 223.081 | 0.2 | 193712 |
| K 766.491 | 6512.96b | ppb | 7.4423 | 0.1 | 278937 |
| Mg 279.078 | 42106.2b | ppb | 29.6485 | 0.1 | 102258 |
| Mn 257.610 | 2410.81b | ppb | 2.9434 | 0.1 | 499283 |
| Mo 202.032 | 23.5964b | ppb | 0.2959 | 1.3 | 146.012 |
| Na 330.237 | 1856.77b | ppb | 113.712 | 6.1 | 30.6415 |
| Ni 231.604 | 255.505b | ppb | 0.5959 | 0.2 | 712.712 |
| Pb 220.353 | 1239.24b | ppb | 6.5681 | 0.5 | 1758.74 |
| Sb 206.834 | 12.7272b | ppb | 1.5689 | 12.3 | 23.4260 |
| Se 196.026 | 8.2366b | ppb | 3.6484 | 44.3 | 7.4094 |
| Sn 189.925 | 113.265b | ppb | 2.2461 | 2.0 | 69.0975 |
| Sr 216.596 | 998.237b | ppb | 2.8704 | 0.3 | 11309.3 |
| Ti 334.941 | 939.566b | ppb | 0.3774 | 0.0 | 260738 |
| Tl 190.794 | -7.8541b | ppb | 0.4257 | 5.4 | -27.4627 |
| V 292.401 | 447.526b | ppb | 1.1735 | 0.3 | 11644.0 |
| Zn 206.200 | 1864.28b | ppb | 9.1726 | 0.5 | 1677.44 |

**680-106194-a-8-a (Samp)** **10/15/2014, 11:02:08 PM** **Rack 3, Tube 54**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -1.0466u | -0.9639u | -1.0576u |
| Al 308.215 | 43030.1 | 43033.7 | 43064.9 |
| As 188.980 | 28.0095 | 28.5518 | 22.7058 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 14.9140 | 14.0182 | 14.1438 |
| Ba 389.178 | 473.099 | 473.688 | 476.066 |
| Be 313.042 | 4.3648 | 4.3534 | 4.3770 |
| Ca 370.602 | 1554473x | 1565725x | 1552686x |
| Cd 226.502 | 1.1631 | 1.0666 | 0.9118 |
| Co 228.615 | 15.3476 | 16.6938 | 15.3501 |
| Cr 267.716 | 90.9611 | 91.2646 | 91.6003 |
| Cu 324.754 | 33.4040 | 32.9029 | 32.6199 |
| Fe 271.441 | 17048.6 | 17053.1 | 17135.0 |
| K 766.491 | 3137.31 | 3152.38 | 3151.43 |
| Mg 279.078 | 23353.9 | 23340.7 | 23358.7 |
| Mn 257.610 | 1443.90 | 1445.75 | 1447.70 |
| Mo 202.032 | 0.3952 | 0.6511 | -0.2775u |
| Na 330.237 | 275.355 | 379.402 | 580.230 |
| Ni 231.604 | 38.1821 | 36.0006 | 34.4458 |
| Pb 220.353 | 55.1470 | 58.4897 | 54.2279 |
| Sb 206.834 | 1.8032 | 0.5301 | 4.7451 |
| Se 196.026 | 9.7794 | 16.9840 | 3.7996 |
| Sn 189.925 | 9.1827 | 6.8913 | 9.4581 |
| Sr 216.596 | 292.256 | 292.680 | 293.967 |
| Ti 334.941 | 212.207 | 212.708 | 212.766 |
| Tl 190.794 | -3.5759u | -5.8045u | -5.8512u |
| V 292.401 | 61.0898 | 61.7294 | 61.6596 |
| Zn 206.200 | 43.4056 | 43.7776 | 41.4707 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -1.0227b | ppb | 0.0512 | 5.0 | -98.7164 |
| Al 308.215 | 43042.9b | ppb | 19.1411 | 0.0 | 285257 |
| As 188.980 | 26.4224b | ppb | 3.2300 | 12.2 | 12.0371 |
| B 249.678 | 14.3587b | ppb | 0.4850 | 3.4 | 216.925 |
| Ba 389.178 | 474.285b | ppb | 1.5707 | 0.3 | 9606.55 |
| Be 313.042 | 4.3651b | ppb | 0.0118 | 0.3 | 7267.09 |
| Ca 370.602 | 1557628xb | ppb | 7069 | 0.5 | 3600686 |
| Cd 226.502 | 1.0472b | ppb | 0.1268 | 12.1 | 113.466 |
| Co 228.615 | 15.7971b | ppb | 0.7765 | 4.9 | 172.994 |
| Cr 267.716 | 91.2753b | ppb | 0.3197 | 0.4 | 4574.50 |
| Cu 324.754 | 32.9756b | ppb | 0.3971 | 1.2 | 2568.86 |
| Fe 271.441 | 17078.9b | ppb | 48.6564 | 0.3 | 24060.6 |
| K 766.491 | 3147.04b | ppb | 8.4387 | 0.3 | 134950 |
| Mg 279.078 | 23351.1b | ppb | 9.3167 | 0.0 | 56709.5 |
| Mn 257.610 | 1445.78b | ppb | 1.9006 | 0.1 | 299253 |
| Mo 202.032 | 0.2563b | ppb | 0.4796 | 187.1 | 7.0743 |
| Na 330.237 | 411.663b | ppb | 154.977 | 37.6 | 36.2810 |
| Ni 231.604 | 36.2095b | ppb | 1.8769 | 5.2 | 96.8091 |
| Pb 220.353 | 55.9549b | ppb | 2.2428 | 4.0 | 78.8845 |
| Sb 206.834 | 2.3594b | ppb | 2.1619 | 91.6 | 5.7021 |
| Se 196.026 | 10.1877b | ppb | 6.6017 | 64.8 | 7.0674 |
| Sn 189.925 | 8.5107b | ppb | 1.4092 | 16.6 | 0.2229 |
| Sr 216.596 | 292.968b | ppb | 0.8915 | 0.3 | 3746.68 |
| Ti 334.941 | 212.560b | ppb | 0.3071 | 0.1 | 58962.8 |
| Tl 190.794 | -5.0772b | ppb | 1.3004 | 25.6 | -12.1817 |
| V 292.401 | 61.4929b | ppb | 0.3509 | 0.6 | 1591.98 |
| Zn 206.200 | 42.8846b | ppb | 1.2385 | 2.9 | 39.0124 |

**680-106194-a-7-a (Samp)** **10/15/2014, 11:06:26 PM** **Rack 3, Tube 55**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -2.8768u | -2.4361u | -2.4972u |
| Al 308.215 | 71877.3 | 71917.8 | 71804.6 |
| As 188.980 | 267.109 | 272.765 | 272.809 |
| B 249.678 | 21.4783 | 22.0285 | 22.1755 |
| Ba 389.178 | 565.798 | 565.995 | 566.307 |
| Be 313.042 | 6.7158 | 6.7330 | 6.7262 |
| Ca 370.602 | 630216 | 629954 | 632702 |
| Cd 226.502 | 0.3469 | 0.5296 | 0.4145 |
| Co 228.615 | 61.1850 | 62.0238 | 61.5336 |
| Cr 267.716 | 127.310 | 127.730 | 128.284 |
| Cu 324.754 | 104.061 | 106.062 | 102.926 |
| Fe 271.441 | 102783 | 102961 | 103006 |
| K 766.491 | 5119.38 | 5109.76 | 5109.76 |
| Mg 279.078 | 20122.7 | 20178.3 | 20151.6 |
| Mn 257.610 | 3105.62 | 3120.20 | 3110.09 |
| Mo 202.032 | 7.1407 | 7.0771 | 6.7838 |
| Na 330.237 | 177.603u | 179.857u | 193.979u |
| Ni 231.604 | 73.8796 | 75.0814 | 76.1042 |
| Pb 220.353 | 156.783 | 158.887 | 152.297 |
| Sb 206.834 | 4.7940 | -0.3865 | 2.1909 |
| Se 196.026 | -5.8945u | 0.8838 | 3.8682 |
| Sn 189.925 | 16.1195 | 14.9900 | 17.9076 |
| Sr 216.596 | 147.008 | 148.021 | 147.946 |
| Ti 334.941 | 516.259 | 514.794 | 513.765 |
| Tl 190.794 | -3.6228u | -9.0162u | -4.6186u |
| V 292.401 | 185.779 | 186.439 | 186.196 |
| Zn 206.200 | 184.570 | 180.642 | 179.572 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -2.6033 | ppb | 0.2388 | 9.2 | -219.126 |
| Al 308.215 | 71866.6 | ppb | 57.3305 | 0.1 | 476148 |
| As 188.980 | 270.895 | ppb | 3.2780 | 1.2 | 142.983 |
| B 249.678 | 21.8941 | ppb | 0.3675 | 1.7 | 151.335 |
| Ba 389.178 | 566.033 | ppb | 0.2568 | 0.0 | 11506.3 |
| Be 313.042 | 6.7250 | ppb | 0.0086 | 0.1 | 10833.7 |
| Ca 370.602 | 630957 | ppb | 1516 | 0.2 | 1457829 |
| Cd 226.502 | 0.4304 | ppb | 0.0924 | 21.5 | 396.102 |
| Co 228.615 | 61.5808 | ppb | 0.4214 | 0.7 | 660.899 |
| Cr 267.716 | 127.775 | ppb | 0.4888 | 0.4 | 6430.24 |
| Cu 324.754 | 104.350 | ppb | 1.5876 | 1.5 | 7608.69 |
| Fe 271.441 | 102917 | ppb | 117.725 | 0.1 | 144948 |
| K 766.491 | 5112.97 | ppb | 5.5521 | 0.1 | 219049 |
| Mg 279.078 | 20150.9 | ppb | 27.7924 | 0.1 | 48894.1 |
| Mn 257.610 | 3111.97 | ppb | 7.4677 | 0.2 | 644017 |
| Mo 202.032 | 7.0005 | ppb | 0.1904 | 2.7 | 45.0366 |
| Na 330.237 | 183.813 | ppb | 8.8759 | 4.8 | 1.2154 |
| Ni 231.604 | 75.0217 | ppb | 1.1135 | 1.5 | 210.766 |
| Pb 220.353 | 155.989 | ppb | 3.3661 | 2.2 | 216.173 |
| Sb 206.834 | 2.1995 | ppb | 2.5903 | 117.8 | 8.3451 |
| Se 196.026 | -0.3808 | ppb | 5.0027 | 1313.7 | 3.9665 |
| Sn 189.925 | 16.3390 | ppb | 1.4711 | 9.0 | 5.3697 |
| Sr 216.596 | 147.658 | ppb | 0.5646 | 0.4 | 1938.79 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 514.939 | ppb | 1.2529 | 0.2 | 142873 |
| Tl 190.794 | -5.7526 | ppb | 2.8700 | 49.9 | -22.0819 |
| V 292.401 | 186.138 | ppb | 0.3339 | 0.2 | 4854.78 |
| Zn 206.200 | 181.595 | ppb | 2.6312 | 1.4 | 160.789 |

**680-106194-a-9-a (Samp)** **10/15/2014, 11:10:44 PM** **Rack 3, Tube 56**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.9207u | -0.4851u | -1.5495u |
| Al 308.215 | 85102.0 | 85216.9 | 85152.8 |
| As 188.980 | 856.224 | 845.823 | 847.048 |
| B 249.678 | 38.3297 | 38.5347 | 39.0001 |
| Ba 389.178 | 892.929 | 897.123 | 892.896 |
| Be 313.042 | 7.4226 | 7.4441 | 7.4364 |
| Ca 370.602 | 353355 | 352570 | 352242 |
| Cd 226.502 | 17.0092 | 16.8705 | 16.9355 |
| Co 228.615 | 70.2590 | 70.0247 | 69.8765 |
| Cr 267.716 | 373.907 | 373.897 | 373.900 |
| Cu 324.754 | 5396.84 | 5314.77 | 5382.09 |
| Fe 271.441 | 241500 | 241931 | 241900 |
| K 766.491 | 5322.58 | 5299.72 | 5315.33 |
| Mg 279.078 | 43850.0 | 43880.7 | 43745.4 |
| Mn 257.610 | 5038.69 | 5031.36 | 5002.28 |
| Mo 202.032 | 36.7085 | 38.0413 | 36.8228 |
| Na 330.237 | 606.026u | 726.153u | 938.394u |
| Ni 231.604 | 260.525 | 259.954 | 260.922 |
| Pb 220.353 | 1733.54 | 1745.62 | 1730.07 |
| Sb 206.834 | 38.7316 | 35.7403 | 31.1920 |
| Se 196.026 | -0.3895 | 17.3211 | 7.3482 |
| Sn 189.925 | 130.055 | 130.837 | 131.459 |
| Sr 216.596 | 390.076 | 393.286 | 391.891 |
| Ti 334.941 | 880.869 | 883.538 | 882.969 |
| Tl 190.794 | -5.3320u | -3.4533u | -4.6704u |
| V 292.401 | 210.979 | 211.295 | 211.610 |
| Zn 206.200 | 2270.83 | 2292.06 | 2274.64 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.9851 | ppb | 0.5351 | 54.3 | -113.727 |
| Al 308.215 | 85157.3 | ppb | 57.5920 | 0.1 | 564332 |
| As 188.980 | 849.698 | ppb | 5.6844 | 0.7 | 452.875 |
| B 249.678 | 38.6215 | ppb | 0.3435 | 0.9 | 114.032 |
| Ba 389.178 | 894.316 | ppb | 2.4311 | 0.3 | 18263.6 |
| Be 313.042 | 7.4344 | ppb | 0.0109 | 0.1 | 11896.2 |
| Ca 370.602 | 352723 | ppb | 572.0 | 0.2 | 813457 |
| Cd 226.502 | 16.9384 | ppb | 0.0694 | 0.4 | 1509.26 |
| Co 228.615 | 70.0534 | ppb | 0.1928 | 0.3 | 764.416 |
| Cr 267.716 | 373.901 | ppb | 0.0052 | 0.0 | 18713.2 |
| Cu 324.754 | 5364.57 | ppb | 43.7498 | 0.8 | 376600 |
| Fe 271.441 | 241777 | ppb | 240.674 | 0.1 | 340501 |
| K 766.491 | 5312.54 | ppb | 11.6830 | 0.2 | 227586 |
| Mg 279.078 | 43825.4 | ppb | 70.9564 | 0.2 | 106372 |
| Mn 257.610 | 5024.11 | ppb | 19.2569 | 0.4 | 1039997 |
| Mo 202.032 | 37.1909 | ppb | 0.7387 | 2.0 | 225930 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 756.857 | ppb | 168.298 | 22.2 | -56.7828 |
| Ni 231.604 | 260.467 | ppb | 0.4863 | 0.2 | 735.041 |
| Pb 220.353 | 1736.41 | ppb | 8.1624 | 0.5 | 2461.56 |
| Sb 206.834 | 35.2213 | ppb | 3.7965 | 10.8 | 58.1422 |
| Se 196.026 | 8.0933 | ppb | 8.8788 | 109.7 | 8.6449 |
| Sn 189.925 | 130.784 | ppb | 0.7036 | 0.5 | 80.6151 |
| Sr 216.596 | 391.751 | ppb | 1.6097 | 0.4 | 4654.57 |
| Ti 334.941 | 882.459 | ppb | 1.4059 | 0.2 | 244909 |
| Tl 190.794 | -4.4852 | ppb | 0.9529 | 21.2 | -36.6600 |
| V 292.401 | 211.295 | ppb | 0.3158 | 0.1 | 5546.78 |
| Zn 206.200 | 2279.17 | ppb | 11.3181 | 0.5 | 2047.24 |

**680-106194-a-19-a (Samp)** **10/15/2014, 11:15:02 PM** **Rack 3, Tube 57**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0082u | -0.2618u | -0.4174u |
| Al 308.215 | 39386.0 | 39447.9 | 39421.9 |
| As 188.980 | 1227.72 | 1252.52 | 1230.29 |
| B 249.678 | 26.7419 | 27.4108 | 26.6851 |
| Ba 389.178 | 670.047 | 667.738 | 669.243 |
| Be 313.042 | 4.0514 | 4.0412 | 4.0439 |
| Ca 370.602 | 1346750x | 1342853x | 1354178x |
| Cd 226.502 | 3.3881 | 3.1440 | 2.8919 |
| Co 228.615 | 30.5027 | 30.3262 | 30.5939 |
| Cr 267.716 | 97.3201 | 97.3498 | 97.2532 |
| Cu 324.754 | 149.350 | 149.988 | 150.131 |
| Fe 271.441 | 164060 | 164035 | 163888 |
| K 766.491 | 5853.69 | 5867.08 | 5861.75 |
| Mg 279.078 | 22492.7 | 22517.5 | 22483.8 |
| Mn 257.610 | 2236.06 | 2236.63 | 2237.83 |
| Mo 202.032 | 11.3614 | 10.8758 | 10.4205 |
| Na 330.237 | 735.265u | 712.928u | 844.190u |
| Ni 231.604 | 74.0342 | 76.4317 | 77.3224 |
| Pb 220.353 | 305.672 | 305.338 | 302.201 |
| Sb 206.834 | 5.5897 | 9.2673 | 6.8430 |
| Se 196.026 | 12.8111 | 7.5302 | 4.9411 |
| Sn 189.925 | 38.4723 | 40.6239 | 41.7913 |
| Sr 216.596 | 533.392 | 535.364 | 535.846 |
| Ti 334.941 | 1037.45 | 1037.77 | 1036.07 |
| Tl 190.794 | -11.6070u | -9.7247u | -10.2442u |
| V 292.401 | 145.842 | 146.873 | 145.642 |
| Zn 206.200 | 591.970 | 590.775 | 595.356 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.2291b | ppb | 0.2065 | 90.2 | -63.4977 |
| Al 308.215 | 39418.6b | ppb | 31.1238 | 0.1 | 261528 |
| As 188.980 | 1236.84b | ppb | 13.6358 | 1.1 | 660.599 |
| B 249.678 | 26.9460b | ppb | 0.4036 | 1.5 | 99.5911 |
| Ba 389.178 | 669.009b | ppb | 1.1722 | 0.2 | 13628.2 |
| Be 313.042 | 4.0455b | ppb | 0.0053 | 0.1 | 6686.72 |
| Ca 370.602 | 1347927xb | ppb | 5754 | 0.4 | 3114806 |
| Cd 226.502 | 3.1414b | ppb | 0.2481 | 7.9 | 715.905 |
| Co 228.615 | 30.4742b | ppb | 0.1361 | 0.4 | 350.514 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 97.3077b | ppb | 0.0495 | 0.1 | 4942.39 |
| Cu 324.754 | 149.823b | ppb | 0.4156 | 0.3 | 10824.0 |
| Fe 271.441 | 163994b | ppb | 92.7063 | 0.1 | 230958 |
| K 766.491 | 5860.84b | ppb | 6.7379 | 0.1 | 251041 |
| Mg 279.078 | 22498.0b | ppb | 17.4281 | 0.1 | 54623.4 |
| Mn 257.610 | 2236.84b | ppb | 0.9030 | 0.0 | 463248 |
| Mo 202.032 | 10.8859b | ppb | 0.4706 | 4.3 | 66.5127 |
| Na 330.237 | 764.128b | ppb | 70.2299 | 9.2 | 3.2992 |
| Ni 231.604 | 75.9294b | ppb | 1.7007 | 2.2 | 217.998 |
| Pb 220.353 | 304.404b | ppb | 1.9148 | 0.6 | 424.108 |
| Sb 206.834 | 7.2333b | ppb | 1.8696 | 25.8 | 16.4360 |
| Se 196.026 | 8.4275b | ppb | 4.0110 | 47.6 | 7.6545 |
| Sn 189.925 | 40.2958b | ppb | 1.6836 | 4.2 | 21.1209 |
| Sr 216.596 | 534.867b | ppb | 1.3003 | 0.2 | 6481.91 |
| Ti 334.941 | 1037.10b | ppb | 0.9030 | 0.1 | 287772 |
| Tl 190.794 | -10.5253b | ppb | 0.9721 | 9.2 | -34.6366 |
| V 292.401 | 146.119b | ppb | 0.6607 | 0.5 | 3848.11 |
| Zn 206.200 | 592.700b | ppb | 2.3762 | 0.4 | 529.419 |

**680-106194-a-31-a (Samp)** **10/15/2014, 11:19:21 PM** **Rack 3, Tube 58**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -3.3752u | -3.7743u | -3.3549u |
| Al 308.215 | 120281 | 120156 | 120606 |
| As 188.980 | 311.339 | 306.533 | 303.879 |
| B 249.678 | 8.6776u | 7.9392u | 8.5598u |
| Ba 389.178 | 421.710 | 423.835 | 424.895 |
| Be 313.042 | 41.2970 | 41.3055 | 41.3470 |
| Ca 370.602 | 20751 | 20717 | 20714 |
| Cd 226.502 | -0.2711 | 0.1638 | -0.2773 |
| Co 228.615 | 57.6785 | 57.8921 | 57.9845 |
| Cr 267.716 | 199.138 | 198.956 | 199.531 |
| Cu 324.754 | 2508.46 | 2541.13 | 2520.16 |
| Fe 271.441 | 261774 | 262161 | 262340 |
| K 766.491 | 6505.96 | 6510.56 | 6528.83 |
| Mg 279.078 | 9114.10 | 9102.92 | 9123.43 |
| Mn 257.610 | 6364.53 | 6369.64 | 6370.02 |
| Mo 202.032 | 26.1738 | 26.2693 | 25.8308 |
| Na 330.237 | 492.846u | 349.143u | 316.563u |
| Ni 231.604 | 374.694 | 377.116 | 377.563 |
| Pb 220.353 | 274.683 | 270.983 | 276.211 |
| Sb 206.834 | 5.1337 | 3.4676 | 2.2008 |
| Se 196.026 | 6.0843 | -0.7491 | -4.7329 |
| Sn 189.925 | 32.9061 | 33.3865 | 23.5174 |
| Sr 216.596 | 50.5724 | 49.8703 | 50.7538 |
| Ti 334.941 | 834.090 | 834.201 | 835.291 |
| Tl 190.794 | -2.5052u | -8.5576u | -7.5462u |
| V 292.401 | 378.494 | 380.136 | 380.199 |
| Zn 206.200 | 419.769 | 419.749 | 418.096 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -3.5015 | ppb | 0.2365 | 6.8 | -292.722 |
| Al 308.215 | 120348 | ppb | 232.167 | 0.2 | 797248 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 307.250 | ppb | 3.7814 | 1.2 | 162.053 |
| B 249.678 | 8.3922 | ppb | 0.3967 | 4.7 | -386.566 |
| Ba 389.178 | 423.480 | ppb | 1.6221 | 0.4 | 8680.93 |
| Be 313.042 | 41.3165 | ppb | 0.0268 | 0.1 | 66966.9 |
| Ca 370.602 | 20727 | ppb | 20.55 | 0.1 | 45803 |
| Cd 226.502 | -0.1282 | ppb | 0.2529 | 197.2 | 943.433 |
| Co 228.615 | 57.8517 | ppb | 0.1569 | 0.3 | 637.668 |
| Cr 267.716 | 199.208 | ppb | 0.2943 | 0.1 | 10058.3 |
| Cu 324.754 | 2523.25 | ppb | 16.5549 | 0.7 | 177326 |
| Fe 271.441 | 262092 | ppb | 289.181 | 0.1 | 369109 |
| K 766.491 | 6515.12 | ppb | 12.0949 | 0.2 | 279030 |
| Mg 279.078 | 9113.48 | ppb | 10.2702 | 0.1 | 22002.3 |
| Mn 257.610 | 6368.06 | ppb | 3.0655 | 0.0 | 1317716 |
| Mo 202.032 | 26.0913 | ppb | 0.2306 | 0.9 | 156.200 |
| Na 330.237 | 386.184 | ppb | 93.7972 | 24.3 | -33.0811 |
| Ni 231.604 | 376.458 | ppb | 1.5438 | 0.4 | 1057.96 |
| Pb 220.353 | 273.959 | ppb | 2.6882 | 1.0 | 374.665 |
| Sb 206.834 | 3.6007 | ppb | 1.4710 | 40.9 | 15.4582 |
| Se 196.026 | 0.2007 | ppb | 5.4708 | 2725.4 | 6.0203 |
| Sn 189.925 | 29.9367 | ppb | 5.5645 | 18.6 | 14.3098 |
| Sr 216.596 | 50.3988 | ppb | 0.4666 | 0.9 | 831.152 |
| Ti 334.941 | 834.528 | ppb | 0.6637 | 0.1 | 231555 |
| Tl 190.794 | -6.2030 | ppb | 3.2421 | 52.3 | -39.9474 |
| V 292.401 | 379.610 | ppb | 0.9666 | 0.3 | 9924.29 |
| Zn 206.200 | 419.205 | ppb | 0.9600 | 0.2 | 368.891 |

**680-106194-b-1-a (Samp)** **10/15/2014, 11:23:39 PM** **Rack 3, Tube 59**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 40.9934 | 40.7268 | 40.4801 |
| Al 308.215 | 76041.1 | 75810.2 | 75866.4 |
| As 188.980 | 236.807 | 248.653 | 246.226 |
| B 249.678 | 329.279 | 330.320 | 330.692 |
| Ba 389.178 | 4302.54 | 4287.36 | 4284.91 |
| Be 313.042 | 3.9332 | 3.9286 | 3.9225 |
| Ca 370.602 | 1202048x | 1204295x | 1204164x |
| Cd 226.502 | 359.427 | 357.880 | 356.809 |
| Co 228.615 | 109.600 | 108.649 | 108.260 |
| Cr 267.716 | 1655.42 | 1653.77 | 1652.96 |
| Cu 324.754 | 533591x | 542317o | 513001o |
| Fe 271.441 | 748877 | 754757 | 752858 |
| K 766.491 | 8298.99 | 8311.28 | 8309.79 |
| Mg 279.078 | 103109 | 102961 | 102945 |
| Mn 257.610 | 7847.65 | 7874.70 | 7828.69 |
| Mo 202.032 | 184.783 | 186.326 | 185.738 |
| Na 330.237 | 15974.0u | 15695.2u | 15438.4u |
| Ni 231.604 | 1631.49 | 1627.59 | 1635.33 |
| Pb 220.353 | 14112.6 | 14110.0 | 14066.9 |
| Sb 206.834 | 178.430 | 179.024 | 177.098 |
| Se 196.026 | 10.8013 | 0.3992 | 18.9675 |
| Sn 189.925 | 1123.76 | 1119.38 | 1108.01 |
| Sr 216.596 | 2058.33 | 2059.11 | 2051.67 |
| Ti 334.941 | 1803.16 | 1798.42 | 1797.39 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -40.0540u | -41.0072u | -39.7511u |
| V 292.401 | 216.558 | 216.557 | 216.841 |
| Zn 206.200 | 127468x | 126805x | 127113x |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 40.7334b | ppb | 0.2567 | 0.6 | 2991.44 |
| Al 308.215 | 75905.9b | ppb | 120.400 | 0.2 | 503975 |
| As 188.980 | 243.895b | ppb | 6.2580 | 2.6 | 125.062 |
| B 249.678 | 330.097b | ppb | 0.7322 | 0.2 | 3450.95 |
| Ba 389.178 | 4291.60b | ppb | 9.5496 | 0.2 | 87496.2 |
| Be 313.042 | 3.9281b | ppb | 0.0053 | 0.1 | 6475.25 |
| Ca 370.602 | 1203502xb | ppb | 1261 | 0.1 | 2775586 |
| Cd 226.502 | 358.038b | ppb | 1.3164 | 0.4 | 16101.9 |
| Co 228.615 | 108.836b | ppb | 0.6898 | 0.6 | 1215.98 |
| Cr 267.716 | 1654.05b | ppb | 1.2562 | 0.1 | 82469.4 |
| Cu 324.754 | 529637oxb | ppb | 15052.8 | 2.8 | 37147388 |
| Fe 271.441 | 752164b | ppb | 3001.11 | 0.4 | 1059263 |
| K 766.491 | 8306.69b | ppb | 6.7069 | 0.1 | 355670 |
| Mg 279.078 | 103005b | ppb | 90.1493 | 0.1 | 250099 |
| Mn 257.610 | 7850.35b | ppb | 23.1248 | 0.3 | 1626329 |
| Mo 202.032 | 185.616b | ppb | 0.7783 | 0.4 | 1122.62 |
| Na 330.237 | 15702.5b | ppb | 267.860 | 1.7 | -2564.87 |
| Ni 231.604 | 1631.47b | ppb | 3.8741 | 0.2 | 4571.99 |
| Pb 220.353 | 14096.5b | ppb | 25.6418 | 0.2 | 20056.5 |
| Sb 206.834 | 178.184b | ppb | 0.9861 | 0.6 | 273.234 |
| Se 196.026 | 10.0560b | ppb | 9.3066 | 92.5 | 13.8241 |
| Sn 189.925 | 1117.05b | ppb | 8.1302 | 0.7 | 729.065 |
| Sr 216.596 | 2056.37b | ppb | 4.0862 | 0.2 | 23644.8 |
| Ti 334.941 | 1799.66b | ppb | 3.0739 | 0.2 | 499572 |
| Tl 190.794 | -40.2708b | ppb | 0.6555 | 1.6 | -132.111 |
| V 292.401 | 216.652b | ppb | 0.1633 | 0.1 | 5804.99 |
| Zn 206.200 | 127129xb | ppb | 331.720 | 0.3 | 114660 |

**CRI (Samp)** **10/15/2014, 11:27:57 PM** **Rack 3, Tube 60**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 10.6637 | 10.3805 | 10.7785 |
| Al 308.215 | 218.862 | 219.339 | 218.834 |
| As 188.980 | 20.3260 | 23.5423 | 26.6719 |
| B 249.678 | 105.823 | 105.643 | 104.999 |
| Ba 389.178 | 9.6990 | 10.7821 | 10.4620 |
| Be 313.042 | 4.1182 | 4.1152 | 4.1203 |
| Ca 370.602 | 616.7 | 625.2 | 620.7 |
| Cd 226.502 | 5.1810 | 5.2060 | 5.1148 |
| Co 228.615 | 9.9495 | 10.4243 | 10.2255 |
| Cr 267.716 | 10.3256 | 10.2943 | 10.1562 |
| Cu 324.754 | 61.8383 | 71.7155 | 69.2629 |
| Fe 271.441 | 122.500 | 132.285 | 128.029 |
| K 766.491 | 1068.39 | 1069.36 | 1069.17 |
| Mg 279.078 | 522.381 | 521.843 | 519.137 |
| Mn 257.610 | 11.8041 | 11.9382 | 11.8234 |
| Mo 202.032 | 10.3624 | 10.6164 | 10.3505 |
| Na 330.237 | 968.138 | 925.182 | 952.857 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 42.0369 | 40.3034 | 40.0657 |
| Pb 220.353 | 11.7654 | 14.7141 | 15.0729 |
| Sb 206.834 | 22.7075 | 22.8553 | 24.6333 |
| Se 196.026 | 24.3235 | 31.9011 | 29.8951 |
| Sn 189.925 | 53.3405 | 54.0308 | 50.5738 |
| Sr 216.596 | 9.6824 | 10.4532 | 10.0361 |
| Ti 334.941 | 10.7382 | 10.6479 | 10.6077 |
| Tl 190.794 | 25.5130 | 26.3258 | 25.2265 |
| V 292.401 | 10.1732 | 10.0752 | 10.1650 |
| Zn 206.200 | 33.0028 | 36.1422 | 36.4702 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 10.6076 | ppb | 0.2048 | 1.9 | 809.674 |
| Al 308.215 | 219.012 | ppb | 0.2839 | 0.1 | 1845.36 |
| As 188.980 | 23.5134 | ppb | 3.1731 | 13.5 | 10.2013 |
| B 249.678 | 105.488 | ppb | 0.4334 | 0.4 | 1630.60 |
| Ba 389.178 | 10.3144 | ppb | 0.5564 | 5.4 | 159.197 |
| Be 313.042 | 4.1179 | ppb | 0.0025 | 0.1 | 6385.96 |
| Ca 370.602 | 620.9 | ppb | 4.258 | 0.7 | 1449 |
| Cd 226.502 | 5.1673 | ppb | 0.0472 | 0.9 | 207.047 |
| Co 228.615 | 10.1998 | ppb | 0.2385 | 2.3 | 109.339 |
| Cr 267.716 | 10.2587 | ppb | 0.0902 | 0.9 | 540.190 |
| Cu 324.754 | 67.6056 | ppb | 5.1429 | 7.6 | 4991.83 |
| Fe 271.441 | 127.605 | ppb | 4.9065 | 3.8 | 187.721 |
| K 766.491 | 1068.97 | ppb | 0.5155 | 0.0 | 46053.7 |
| Mg 279.078 | 521.120 | ppb | 1.7389 | 0.3 | 1284.70 |
| Mn 257.610 | 11.8552 | ppb | 0.0725 | 0.6 | 2496.43 |
| Mo 202.032 | 10.4431 | ppb | 0.1502 | 1.4 | 70.8856 |
| Na 330.237 | 948.726 | ppb | 21.7737 | 2.3 | 66.5016 |
| Ni 231.604 | 40.8020 | ppb | 1.0760 | 2.6 | 108.239 |
| Pb 220.353 | 13.8508 | ppb | 1.8149 | 13.1 | 20.1646 |
| Sb 206.834 | 23.3987 | ppb | 1.0718 | 4.6 | 31.9211 |
| Se 196.026 | 28.7066 | ppb | 3.9261 | 13.7 | 13.7957 |
| Sn 189.925 | 52.6483 | ppb | 1.8295 | 3.5 | 29.2429 |
| Sr 216.596 | 10.0572 | ppb | 0.3859 | 3.8 | 111.498 |
| Ti 334.941 | 10.6646 | ppb | 0.0669 | 0.6 | 2898.18 |
| Tl 190.794 | 25.6884 | ppb | 0.5703 | 2.2 | 19.1503 |
| V 292.401 | 10.1378 | ppb | 0.0544 | 0.5 | 253.761 |
| Zn 206.200 | 35.2051 | ppb | 1.9143 | 5.4 | 32.9362 |

**Cont Calib Verif (CCV)** **10/15/2014, 11:32:16 PM** **Rack 4, Tube 1**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 488.803 | 486.942 | 487.662 |
| Al 308.215 | 4836.67 | 4838.14 | 4825.05 |
| As 188.980 | 449.767 | 451.879 | 453.304 |
| B 249.678 | 482.914 | 482.361 | 486.714 |
| Ba 389.178 | 4758.03 | 4754.66 | 4753.08 |
| Be 313.042 | 477.300 | 478.773 | 478.830 |
| Ca 370.602 | 4724 | 4745 | 4740 |
| Cd 226.502 | 473.379 | 474.274 | 473.459 |
| Co 228.615 | 483.168 | 483.881 | 484.446 |
| Cr 267.716 | 4768.32 | 4773.98 | 4779.87 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 5058.32 | 5046.97 | 5020.53 |
| Fe 271.441 | 4784.56 | 4787.93 | 4781.62 |
| K 766.491 | 9956.24 | 9963.25 | 9945.23 |
| Mg 279.078 | 4816.91 | 4808.39 | 4814.86 |
| Mn 257.610 | 4899.65 | 4899.66 | 4912.90 |
| Mo 202.032 | 481.188 | 482.341 | 481.694 |
| Na 330.237 | 7467.31 | 7145.94 | 7286.42 |
| Ni 231.604 | 2415.87 | 2419.58 | 2419.40 |
| Pb 220.353 | 477.500 | 483.554 | 478.902 |
| Sb 206.834 | 914.258 | 918.960 | 912.379 |
| Se 196.026 | 4769.69 | 4750.60 | 4712.73 |
| Sn 189.925 | 4785.54 | 4766.19 | 4819.70 |
| Sr 216.596 | 2351.86 | 2347.67 | 2355.13 |
| Ti 334.941 | 478.421 | 478.524 | 477.909 |
| Tl 190.794 | 4836.59 | 4865.10 | 4860.65 |
| V 292.401 | 4798.06 | 4795.38 | 4792.49 |
| Zn 206.200 | 2335.51 | 2341.44 | 2343.90 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 487.802 | ppb | 0.9387 | 0.2 | 37676.4 | 97.56046 |
| Al 308.215 | 4833.28 | ppb | 7.1692 | 0.1 | 32878.6 | 96.66568 |
| As 188.980 | 451.650 | ppb | 1.7793 | 0.4 | 239.795 | 90.32999 |
| B 249.678 | 483.996 | ppb | 2.3696 | 0.5 | 7356.22 | 96.79925 |
| Ba 389.178 | 4755.26 | ppb | 2.5289 | 0.1 | 96412.3 | 95.10513 |
| Be 313.042 | 478.301 | ppb | 0.8674 | 0.2 | 778516 | 95.66023 |
| Ca 370.602 | 4737 | ppb | 10.90 | 0.2 | 11219 | 94.73477 |
| Cd 226.502 | 473.704 | ppb | 0.4953 | 0.1 | 17758.4 | 94.74077 |
| Co 228.615 | 483.832 | ppb | 0.6407 | 0.1 | 5047.45 | 96.76631 |
| Cr 267.716 | 4774.06 | ppb | 5.7741 | 0.1 | 236903 | 95.48113 |
| Cu 324.754 | 5041.94 | ppb | 19.3905 | 0.4 | 353827 | 100.83875 |
| Fe 271.441 | 4784.70 | ppb | 3.1601 | 0.1 | 6840.67 | 95.69409 |
| K 766.491 | 9954.91 | ppb | 9.0847 | 0.1 | 426178 | 99.54905 |
| Mg 279.078 | 4813.39 | ppb | 4.4473 | 0.1 | 11621.1 | 96.26781 |
| Mn 257.610 | 4904.07 | ppb | 7.6454 | 0.2 | 1014212 | 98.08145 |
| Mo 202.032 | 481.741 | ppb | 0.5777 | 0.1 | 2982.51 | 96.34824 |
| Na 330.237 | 7299.89 | ppb | 161.106 | 2.2 | 311.295 | 97.33189 |
| Ni 231.604 | 2418.29 | ppb | 2.0917 | 0.1 | 6693.58 | 96.73148 |
| Pb 220.353 | 479.985 | ppb | 3.1691 | 0.7 | 688.000 | 95.99709 |
| Sb 206.834 | 915.199 | ppb | 3.3900 | 0.4 | 1251.64 | 91.51987 |
| Se 196.026 | 4744.34 | ppb | 28.9938 | 0.6 | 1830.35 | 94.88681 |
| Sn 189.925 | 4790.48 | ppb | 27.0967 | 0.6 | 3144.30 | 95.80955 |
| Sr 216.596 | 2351.56 | ppb | 3.7413 | 0.2 | 25637.1 | 94.06222 |
| Ti 334.941 | 478.285 | ppb | 0.3292 | 0.1 | 132662 | 95.65698 |
| Tl 190.794 | 4854.11 | ppb | 15.3388 | 0.3 | 4747.70 | 97.08224 |
| V 292.401 | 4795.31 | ppb | 2.7836 | 0.1 | 124006 | 95.90615 |
| Zn 206.200 | 2340.28 | ppb | 4.3156 | 0.2 | 2100.05 | 93.61130 |

**Cont Calib Blank (CCB)** **10/15/2014, 11:36:35 PM** **Rack 4, Tube 2**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1333 | -0.1904u | 0.1053 |
| Al 308.215 | 8.2747 | 8.6313 | 8.7683 |
| As 188.980 | 6.2816 | 3.4350 | 5.7582 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 9.2028 | 7.8509 | 7.7213 |
| Ba 389.178 | 0.4264 | 0.1096 | 0.6771 |
| Be 313.042 | 0.0680 | 0.0649 | 0.0765 |
| Ca 370.602 | 23.99 | 14.10 | 15.75 |
| Cd 226.502 | 0.1173 | 0.0391 | 0.0309 |
| Co 228.615 | 0.2287 | -0.0442u | 0.2652 |
| Cr 267.716 | 0.7173 | 0.6376 | 0.7988 |
| Cu 324.754 | 3.9916 | 3.9401 | 4.3058 |
| Fe 271.441 | 24.9074 | 7.4248 | 8.0124 |
| K 766.491 | -0.4997u | -0.8820u | -0.9024u |
| Mg 279.078 | 14.6239 | 1.7321 | 3.7038 |
| Mn 257.610 | 1.5182 | 0.7351 | 0.8896 |
| Mo 202.032 | 0.2702 | 1.5667 | 0.4864 |
| Na 330.237 | -94.5459u | -104.892u | 55.0177 |
| Ni 231.604 | 1.6725 | 1.6450 | 1.1225 |
| Pb 220.353 | 1.8270 | 0.0272 | 3.0459 |
| Sb 206.834 | 7.0605 | 5.5109 | 1.0016 |
| Se 196.026 | 5.1684 | 3.8212 | 6.5755 |
| Sn 189.925 | -1.3325u | 3.2218 | 4.6501 |
| Sr 216.596 | 0.5698 | 0.4091 | 0.5093 |
| Ti 334.941 | 0.2210 | 0.1790 | 0.2095 |
| Tl 190.794 | 4.3492 | 0.3482 | 2.2407 |
| V 292.401 | 0.6141 | 0.8443 | 0.8179 |
| Zn 206.200 | 2.6506 | 2.9492 | 0.4533 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.0161 | ppb | 0.1793 | 1116.4 | -9.2277 | 0.01607 |
| Al 308.215 | 8.5581 | ppb | 0.2548 | 3.0 | 451.128 | 8.55813 |
| As 188.980 | 5.1583 | ppb | 1.5152 | 29.4 | 0.3552 | 5.15826 |
| B 249.678 | 8.2583 | ppb | 0.8204 | 9.9 | 160.380 | 8.25835 |
| Ba 389.178 | 0.4044 | ppb | 0.2844 | 70.3 | -42.5645 | 0.40437 |
| Be 313.042 | 0.0698 | ppb | 0.0060 | 8.6 | -203.448 | 0.06982 |
| Ca 370.602 | 17.95 | ppb | 5.299 | 29.5 | 52.60 | 17.94647 |
| Cd 226.502 | 0.0625 | ppb | 0.0477 | 76.4 | 15.5836 | 0.06247 |
| Co 228.615 | 0.1499 | ppb | 0.1691 | 112.8 | 4.6990 | 0.14989 |
| Cr 267.716 | 0.7179 | ppb | 0.0806 | 11.2 | 66.7562 | 0.71790 |
| Cu 324.754 | 4.0792 | ppb | 0.1979 | 4.9 | 536.015 | 4.07917 |
| Fe 271.441 | 13.4482 | ppb | 9.9283 | 73.8 | 25.7902 | 13.44819 |
| K 766.491 | -0.7614 | ppb | 0.2268 | 29.8 | 292.511 | -0.76141 |
| Mg 279.078 | 6.6866 | ppb | 6.9442 | 103.9 | 35.1549 | 6.68657 |
| Mn 257.610 | 1.0476 | ppb | 0.4148 | 39.6 | 257.413 | 1.04763 |
| Mo 202.032 | 0.7744 | ppb | 0.6946 | 89.7 | 11.0667 | 0.77442 |
| Na 330.237 | -48.1400 | ppb | 89.4868 | 185.9 | 19.7003 | -48.14002 |
| Ni 231.604 | 1.4800 | ppb | 0.3099 | 20.9 | -0.6763 | 1.48003 |
| Pb 220.353 | 1.6334 | ppb | 1.5186 | 93.0 | 2.7637 | 1.63338 |
| Sb 206.834 | 4.5243 | ppb | 3.1476 | 69.6 | 7.0835 | 4.52432 |
| Se 196.026 | 5.1884 | ppb | 1.3772 | 26.5 | 4.7379 | 5.18838 |
| Sn 189.925 | 2.1798 | ppb | 3.1244 | 143.3 | -3.9397 | 2.17980 |
| Sr 216.596 | 0.4960 | ppb | 0.0812 | 16.4 | 7.7949 | 0.49605 |
| Ti 334.941 | 0.2032 | ppb | 0.0217 | 10.7 | -5.4813 | 0.20318 |
| Tl 190.794 | 2.3127 | ppb | 2.0015 | 86.5 | -3.7027 | 2.31270 |
| V 292.401 | 0.7587 | ppb | 0.1260 | 16.6 | 12.4262 | 0.75875 |
| Zn 206.200 | 2.0177 | ppb | 1.3630 | 67.6 | 3.0245 | 2.01767 |

**CRI (Samp)** **10/15/2014, 11:40:54 PM** **Rack 4, Tube 3**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 10.5909 | 10.5009 | 10.3342 |
| Al 308.215 | 212.306 | 211.712 | 213.193 |
| As 188.980 | 23.1220 | 28.3575 | 25.1569 |
| B 249.678 | 104.425 | 104.486 | 103.975 |
| Ba 389.178 | 9.5096 | 10.3065 | 10.3174 |
| Be 313.042 | 4.1222 | 4.1302 | 4.1254 |
| Ca 370.602 | 506.0 | 513.3 | 507.5 |
| Cd 226.502 | 5.0803 | 5.1237 | 4.9592 |
| Co 228.615 | 9.7017 | 9.8339 | 10.7935 |
| Cr 267.716 | 10.3285 | 10.2784 | 10.1042 |
| Cu 324.754 | 22.5449 | 22.8073 | 22.7453 |
| Fe 271.441 | 50.8168 | 55.2960 | 56.5797 |
| K 766.491 | 1071.44 | 1072.16 | 1069.49 |
| Mg 279.078 | 506.290 | 508.222 | 510.629 |
| Mn 257.610 | 10.9942 | 11.1101 | 11.0667 |
| Mo 202.032 | 9.9153 | 10.4806 | 10.3751 |
| Na 330.237 | 1036.09 | 952.184 | 887.683 |
| Ni 231.604 | 41.4504 | 40.3900 | 41.3350 |
| Pb 220.353 | 12.1838 | 11.2962 | 12.5821 |
| Sb 206.834 | 23.6340 | 20.4952 | 22.0410 |
| Se 196.026 | 19.6308 | 24.1601 | 23.1174 |
| Sn 189.925 | 52.9597 | 52.1708 | 51.2603 |
| Sr 216.596 | 10.0858 | 10.0987 | 10.3758 |
| Ti 334.941 | 10.3239 | 10.3418 | 10.3150 |
| Tl 190.794 | 23.8769 | 27.6559 | 27.2688 |
| V 292.401 | 10.3326 | 10.3618 | 10.0352 |
| Zn 206.200 | 21.4712 | 19.4657 | 22.1635 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 10.4753 | ppb | 0.1302 | 1.2 | 799.456 |
| Al 308.215 | 212.404 | ppb | 0.7451 | 0.4 | 1801.51 |
| As 188.980 | 25.5454 | ppb | 2.6393 | 10.3 | 11.2919 |
| B 249.678 | 104.296 | ppb | 0.2792 | 0.3 | 1612.70 |
| Ba 389.178 | 10.0445 | ppb | 0.4633 | 4.6 | 153.670 |
| Be 313.042 | 4.1259 | ppb | 0.0041 | 0.1 | 6399.05 |
| Ca 370.602 | 508.9 | ppb | 3.836 | 0.8 | 1191 |
| Cd 226.502 | 5.0544 | ppb | 0.0853 | 1.7 | 202.552 |
| Co 228.615 | 10.1097 | ppb | 0.5959 | 5.9 | 108.394 |
| Cr 267.716 | 10.2371 | ppb | 0.1177 | 1.2 | 539.077 |
| Cu 324.754 | 22.6992 | ppb | 0.1372 | 0.6 | 1842.21 |
| Fe 271.441 | 54.2309 | ppb | 3.0255 | 5.6 | 84.4005 |
| K 766.491 | 1071.03 | ppb | 1.3842 | 0.1 | 46141.8 |
| Mg 279.078 | 508.380 | ppb | 2.1738 | 0.4 | 1253.77 |
| Mn 257.610 | 11.0570 | ppb | 0.0585 | 0.5 | 2331.07 |
| Mo 202.032 | 10.2570 | ppb | 0.3006 | 2.9 | 69.7370 |
| Na 330.237 | 958.652 | ppb | 74.4147 | 7.8 | 67.3226 |
| Ni 231.604 | 41.0585 | ppb | 0.5818 | 1.4 | 108.944 |
| Pb 220.353 | 12.0207 | ppb | 0.6583 | 5.5 | 17.5598 |
| Sb 206.834 | 22.0567 | ppb | 1.5695 | 7.1 | 30.1519 |
| Se 196.026 | 22.3028 | ppb | 2.3720 | 10.6 | 11.3295 |
| Sn 189.925 | 52.1303 | ppb | 0.8504 | 1.6 | 28.9023 |
| Sr 216.596 | 10.1868 | ppb | 0.1638 | 1.6 | 112.781 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 10.3269 | ppb | 0.0137 | 0.1 | 2804.44 |
| Tl 190.794 | 26.2672 | ppb | 2.0791 | 7.9 | 19.7256 |
| V 292.401 | 10.2432 | ppb | 0.1807 | 1.8 | 256.484 |
| Zn 206.200 | 21.0334 | ppb | 1.4011 | 6.7 | 20.1540 |

**CCV (Samp)** **10/15/2014, 11:45:13 PM** **Rack 4, Tube 4**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 486.173 | 488.462 | 485.704 |
| Al 308.215 | 4781.31 | 4788.89 | 4830.09 |
| As 188.980 | 444.392 | 448.672 | 459.437 |
| B 249.678 | 484.322 | 482.088 | 487.956 |
| Ba 389.178 | 4747.42 | 4763.84 | 4769.94 |
| Be 313.042 | 479.787 | 478.937 | 483.394 |
| Ca 370.602 | 4804 | 4802 | 4787 |
| Cd 226.502 | 471.658 | 472.325 | 472.153 |
| Co 228.615 | 486.154 | 486.659 | 484.423 |
| Cr 267.716 | 4777.55 | 4795.40 | 4787.74 |
| Cu 324.754 | 5072.97 | 5016.12 | 5091.48 |
| Fe 271.441 | 4769.03 | 4794.15 | 4780.67 |
| K 766.491 | 10008.8 | 10006.6 | 10039.4 |
| Mg 279.078 | 4814.45 | 4820.64 | 4813.47 |
| Mn 257.610 | 4894.90 | 4901.60 | 4891.53 |
| Mo 202.032 | 479.248 | 481.396 | 482.139 |
| Na 330.237 | 7674.95 | 7526.26 | 7400.24 |
| Ni 231.604 | 2410.86 | 2414.36 | 2412.57 |
| Pb 220.353 | 480.680 | 485.202 | 479.516 |
| Sb 206.834 | 908.590 | 911.599 | 916.233 |
| Se 196.026 | 4674.49 | 4723.90 | 4713.51 |
| Sn 189.925 | 4799.47 | 4793.07 | 4782.79 |
| Sr 216.596 | 2331.50 | 2338.30 | 2339.41 |
| Ti 334.941 | 481.457 | 483.146 | 483.668 |
| Tl 190.794 | 4867.80 | 4871.70 | 4857.60 |
| V 292.401 | 4792.66 | 4805.69 | 4801.66 |
| Zn 206.200 | 2342.93 | 2328.03 | 2332.95 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 486.780 | ppb | 1.4755 | 0.3 | 37598.2 |
| Al 308.215 | 4800.10 | ppb | 26.2535 | 0.5 | 32658.3 |
| As 188.980 | 450.834 | ppb | 7.7522 | 1.7 | 239.357 |
| B 249.678 | 484.789 | ppb | 2.9615 | 0.6 | 7368.15 |
| Ba 389.178 | 4760.40 | ppb | 11.6489 | 0.2 | 96516.5 |
| Be 313.042 | 480.706 | ppb | 2.3664 | 0.5 | 782431 |
| Ca 370.602 | 4798 | ppb | 8.973 | 0.2 | 11359 |
| Cd 226.502 | 472.045 | ppb | 0.3461 | 0.1 | 17696.3 |
| Co 228.615 | 485.745 | ppb | 1.1724 | 0.2 | 5067.40 |
| Cr 267.716 | 4786.90 | ppb | 8.9549 | 0.2 | 237540 |
| Cu 324.754 | 5060.19 | ppb | 39.2707 | 0.8 | 355107 |
| Fe 271.441 | 4781.28 | ppb | 12.5719 | 0.3 | 6835.69 |
| K 766.491 | 10018.3 | ppb | 18.3511 | 0.2 | 428888 |
| Mg 279.078 | 4816.19 | ppb | 3.8922 | 0.1 | 11628.5 |
| Mn 257.610 | 4896.01 | ppb | 5.1298 | 0.1 | 1012544 |
| Mo 202.032 | 480.928 | ppb | 1.5011 | 0.3 | 2977.48 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 7533.81 | ppb | 137.509 | 1.8 | 322.879 |
| Ni 231.604 | 2412.60 | ppb | 1.7501 | 0.1 | 6677.82 |
| Pb 220.353 | 481.800 | ppb | 3.0037 | 0.6 | 690.566 |
| Sb 206.834 | 912.141 | ppb | 3.8503 | 0.4 | 1247.37 |
| Se 196.026 | 4703.96 | ppb | 26.0483 | 0.6 | 1814.80 |
| Sn 189.925 | 4791.78 | ppb | 8.4150 | 0.2 | 3145.15 |
| Sr 216.596 | 2336.41 | ppb | 4.2825 | 0.2 | 25471.9 |
| Ti 334.941 | 482.757 | ppb | 1.1554 | 0.2 | 133903 |
| Tl 190.794 | 4865.70 | ppb | 7.2822 | 0.1 | 4759.00 |
| V 292.401 | 4800.00 | ppb | 6.6716 | 0.1 | 124129 |
| Zn 206.200 | 2334.64 | ppb | 7.5913 | 0.3 | 2095.02 |

**CCB (Samp)** **10/15/2014, 11:49:31 PM** **Rack 4, Tube 5**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0250u | -0.2421u | 0.2271 |
| Al 308.215 | 10.3880 | 10.4125 | 8.6587 |
| As 188.980 | 2.6437 | 1.1913 | 3.6959 |
| B 249.678 | 9.5433 | 8.6393 | 7.7060 |
| Ba 389.178 | 0.4201 | 0.8919 | 0.5898 |
| Be 313.042 | 0.0770 | 0.0780 | 0.0841 |
| Ca 370.602 | 3.471 | 6.807 | 7.571 |
| Cd 226.502 | 0.1153 | 0.0549 | -0.1498u |
| Co 228.615 | 0.3584 | -0.0095u | -0.3289u |
| Cr 267.716 | 0.6483 | 0.5748 | 0.9513 |
| Cu 324.754 | 1.1466 | 1.2101 | 1.2402 |
| Fe 271.441 | 1.3940 | 9.2216 | -2.0588u |
| K 766.491 | -0.1147u | -0.3543u | -1.5411u |
| Mg 279.078 | 0.3903 | 1.4730 | -0.9340u |
| Mn 257.610 | 0.8555 | 0.9896 | 0.9564 |
| Mo 202.032 | 0.7997 | 1.0129 | 0.4031 |
| Na 330.237 | -100.244u | -173.471u | -40.8584u |
| Ni 231.604 | 0.3856 | 1.6258 | 1.3142 |
| Pb 220.353 | 1.9058 | 1.5707 | 0.7449 |
| Sb 206.834 | 4.6325 | 3.0810 | 3.2565 |
| Se 196.026 | 5.5406 | 2.3922 | 10.0844 |
| Sn 189.925 | 3.5338 | 2.2002 | 1.3613 |
| Sr 216.596 | 0.0818 | 0.4058 | 0.3504 |
| Ti 334.941 | 0.1686 | 0.1938 | 0.1879 |
| Tl 190.794 | 6.6547 | 4.3974 | 1.5670 |
| V 292.401 | 0.9357 | 0.9399 | 0.7712 |
| Zn 206.200 | 1.5904 | 0.2270 | 0.9473 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0133 | ppb | 0.2348 | 1762.6 | -11.4950 |
| Al 308.215 | 9.8197 | ppb | 1.0055 | 10.2 | 459.476 |
| As 188.980 | 2.5103 | ppb | 1.2576 | 50.1 | -1.0653 |
| B 249.678 | 8.6295 | ppb | 0.9187 | 10.6 | 165.992 |
| Ba 389.178 | 0.6339 | ppb | 0.2390 | 37.7 | -37.9196 |
| Be 313.042 | 0.0797 | ppb | 0.0038 | 4.8 | -187.312 |
| Ca 370.602 | 5.950 | ppb | 2.181 | 36.7 | 24.93 |
| Cd 226.502 | 0.0068 | ppb | 0.1389 | 2042.7 | 13.4742 |
| Co 228.615 | 0.0067 | ppb | 0.3439 | 5165.6 | 3.2057 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 0.7248 | ppb | 0.1995 | 27.5 | 67.0945 |
| Cu 324.754 | 1.1990 | ppb | 0.0478 | 4.0 | 334.003 |
| Fe 271.441 | 2.8523 | ppb | 5.7798 | 202.6 | 10.8603 |
| K 766.491 | -0.6700 | ppb | 0.7638 | 114.0 | 296.420 |
| Mg 279.078 | 0.3097 | ppb | 1.2055 | 389.2 | 19.6637 |
| Mn 257.610 | 0.9338 | ppb | 0.0699 | 7.5 | 233.820 |
| Mo 202.032 | 0.7386 | ppb | 0.3094 | 41.9 | 10.8450 |
| Na 330.237 | -104.858 | ppb | 66.4268 | 63.3 | 17.0263 |
| Ni 231.604 | 1.1085 | ppb | 0.6452 | 58.2 | -1.7057 |
| Pb 220.353 | 1.4072 | ppb | 0.5975 | 42.5 | 2.4415 |
| Sb 206.834 | 3.6567 | ppb | 0.8496 | 23.2 | 5.9392 |
| Se 196.026 | 6.0057 | ppb | 3.8671 | 64.4 | 5.0526 |
| Sn 189.925 | 2.3651 | ppb | 1.0956 | 46.3 | -3.8178 |
| Sr 216.596 | 0.2794 | ppb | 0.1733 | 62.0 | 5.4116 |
| Ti 334.941 | 0.1834 | ppb | 0.0132 | 7.2 | -10.9693 |
| Tl 190.794 | 4.2063 | ppb | 2.5492 | 60.6 | -1.8509 |
| V 292.401 | 0.8822 | ppb | 0.0962 | 10.9 | 15.6237 |
| Zn 206.200 | 0.9216 | ppb | 0.6821 | 74.0 | 2.0361 |

**Cont Calib Verif (CCV)** **10/16/2014, 9:56:09 AM** **Rack 4, Tube 13**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 478.308 | 479.748 | 476.281 |
| Al 308.215 | 4810.80 | 4767.64 | 4754.22 |
| As 188.980 | 456.591 | 462.222 | 454.962 |
| B 249.678 | 473.589 | 476.513 | 476.604 |
| Ba 389.178 | 4744.41 | 4753.38 | 4751.63 |
| Be 313.042 | 475.203 | 478.415 | 475.256 |
| Ca 370.602 | 4461 | 4475 | 4454 |
| Cd 226.502 | 480.541 | 482.972 | 481.402 |
| Co 228.615 | 478.213 | 478.373 | 476.928 |
| Cr 267.716 | 4782.02 | 4793.03 | 4781.72 |
| Cu 324.754 | 4955.58 | 4898.39 | 4836.37 |
| Fe 271.441 | 4743.08 | 4749.75 | 4753.07 |
| K 766.491 | 9850.02 | 9826.21 | 9809.33 |
| Mg 279.078 | 4778.03 | 4771.67 | 4758.77 |
| Mn 257.610 | 4824.03 | 4835.21 | 4822.85 |
| Mo 202.032 | 469.302 | 469.344 | 467.969 |
| Na 330.237 | 7727.36 | 7584.35 | 7635.81 |
| Ni 231.604 | 2407.35 | 2414.61 | 2408.79 |
| Pb 220.353 | 478.367 | 477.031 | 478.210 |
| Sb 206.834 | 900.823 | 902.601 | 903.570 |
| Se 196.026 | 4850.62 | 4880.12 | 4848.56 |
| Sn 189.925 | 4760.14 | 4779.26 | 4757.60 |
| Sr 216.596 | 2374.88 | 2383.21 | 2377.68 |
| Ti 334.941 | 461.370 | 461.388 | 461.141 |
| Tl 190.794 | 4720.93 | 4725.14 | 4721.11 |
| V 292.401 | 4725.57 | 4717.84 | 4714.23 |
| Zn 206.200 | 2388.87 | 2391.41 | 2391.66 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 478.112 | ppb | 1.7418 | 0.4 | 36923.1 | 95.62249 |
| Al 308.215 | 4777.55 | ppb | 29.5648 | 0.6 | 32507.2 | 95.55107 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| As 188.980 | 457.925 | ppb | 3.8091 | 0.8 | 243.162 | 91.58504 |
| B 249.678 | 475.568 | ppb | 1.7152 | 0.4 | 7228.84 | 95.11369 |
| Ba 389.178 | 4749.80 | ppb | 4.7543 | 0.1 | 96301.5 | 94.99606 |
| Be 313.042 | 476.291 | ppb | 1.8393 | 0.4 | 775243 | 95.25828 |
| Ca 370.602 | 4463 | ppb | 10.70 | 0.2 | 10586 | 89.26880Q |
| Cd 226.502 | 481.638 | ppb | 1.2330 | 0.3 | 18055.4 | 96.32768 |
| Co 228.615 | 477.838 | ppb | 0.7922 | 0.2 | 4985.26 | 95.56754 |
| Cr 267.716 | 4785.59 | ppb | 6.4429 | 0.1 | 237476 | 95.71177 |
| Cu 324.754 | 4896.78 | ppb | 59.6220 | 1.2 | 343646 | 97.93565 |
| Fe 271.441 | 4748.63 | ppb | 5.0866 | 0.1 | 6790.04 | 94.97269 |
| K 766.491 | 9828.52 | ppb | 20.4432 | 0.2 | 420771 | 98.28522 |
| Mg 279.078 | 4769.49 | ppb | 9.8153 | 0.2 | 11514.1 | 95.38975 |
| Mn 257.610 | 4827.37 | ppb | 6.8229 | 0.1 | 998349 | 96.54733 |
| Mo 202.032 | 468.872 | ppb | 0.7821 | 0.2 | 2902.89 | 93.77431 |
| Na 330.237 | 7649.17 | ppb | 72.4331 | 0.9 | 326.562 | 101.98897 |
| Ni 231.604 | 2410.25 | ppb | 3.8418 | 0.2 | 6671.31 | 96.40990 |
| Pb 220.353 | 477.870 | ppb | 0.7302 | 0.2 | 685.076 | 95.57392 |
| Sb 206.834 | 902.331 | ppb | 1.3933 | 0.2 | 1235.97 | 90.23312 |
| Se 196.026 | 4859.76 | ppb | 17.6550 | 0.4 | 1874.80 | 97.19528 |
| Sn 189.925 | 4765.67 | ppb | 11.8363 | 0.2 | 3127.98 | 95.31335 |
| Sr 216.596 | 2378.59 | ppb | 4.2366 | 0.2 | 25932.0 | 95.14363 |
| Ti 334.941 | 461.300 | ppb | 0.1377 | 0.0 | 127948 | 92.25996 |
| Tl 190.794 | 4722.39 | ppb | 2.3792 | 0.1 | 4618.92 | 94.44786 |
| V 292.401 | 4719.22 | ppb | 5.7936 | 0.1 | 122030 | 94.38432 |
| Zn 206.200 | 2390.65 | ppb | 1.5459 | 0.1 | 2145.20 | 95.62598 |

**Cont Calib Blank (CCB)** **10/16/2014, 10:00:28 AM** **Rack 4, Tube 14**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0666 | -0.0956u | 0.1937 |
| Al 308.215 | 1.9095 | 2.1655 | 3.3470 |
| As 188.980 | 7.8025 | 6.2072 | 4.5131 |
| B 249.678 | 8.4938 | 7.4368 | 6.6759 |
| Ba 389.178 | 0.7724 | 0.9905 | 0.9186 |
| Be 313.042 | 0.0504 | 0.0458 | 0.0463 |
| Ca 370.602 | 1.545 | 3.666 | 7.197 |
| Cd 226.502 | 0.0132 | 0.0728 | -0.0242u |
| Co 228.615 | 0.0990 | 0.2095 | -0.2098u |
| Cr 267.716 | 0.5588 | 0.5919 | 0.6023 |
| Cu 324.754 | 0.9802 | 0.6584 | 0.7572 |
| Fe 271.441 | 1.3025 | -0.6180u | -1.0486u |
| K 766.491 | 1.7354 | 1.2724 | 1.2863 |
| Mg 279.078 | -1.1709u | 0.1096 | -2.8522u |
| Mn 257.610 | 0.7054 | 0.6615 | 0.6302 |
| Mo 202.032 | 0.6205 | 0.8344 | 0.8146 |
| Na 330.237 | -85.4240u | -1.1430u | -54.0216u |
| Ni 231.604 | 0.6081 | 1.2877 | 1.3263 |
| Pb 220.353 | -0.8370u | 1.0902 | -0.7082u |
| Sb 206.834 | 6.0266 | 2.9345 | 0.1524 |
| Se 196.026 | 3.7792 | 7.6068 | 3.3318 |
| Sn 189.925 | 5.4170 | -0.7005u | 2.9145 |
| Sr 216.596 | 0.5520 | 0.2313 | 0.4917 |
| Ti 334.941 | 0.0747 | 0.1404 | 0.0909 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 5.0676 | 4.3582 | 2.5655 |
| V 292.401 | 0.5347 | 0.5498 | 0.4664 |
| Zn 206.200 | 0.4986 | 1.0073 | -1.3861u |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.0549 | ppb | 0.1450 | 264.2 | -6.2274 | 0.05489 |
| Al 308.215 | 2.4740 | ppb | 0.7668 | 31.0 | 410.825 | 2.47401 |
| As 188.980 | 6.1743 | ppb | 1.6450 | 26.6 | 0.9003 | 6.17425 |
| B 249.678 | 7.5355 | ppb | 0.9130 | 12.1 | 149.454 | 7.53550 |
| Ba 389.178 | 0.8938 | ppb | 0.1112 | 12.4 | -32.6533 | 0.89382 |
| Be 313.042 | 0.0475 | ppb | 0.0026 | 5.4 | -239.806 | 0.04749 |
| Ca 370.602 | 4.136 | ppb | 2.855 | 69.0 | 20.75 | 4.13594 |
| Cd 226.502 | 0.0206 | ppb | 0.0489 | 237.3 | 13.9757 | 0.02062 |
| Co 228.615 | 0.0329 | ppb | 0.2173 | 661.2 | 3.4776 | 0.03287 |
| Cr 267.716 | 0.5843 | ppb | 0.0227 | 3.9 | 60.1249 | 0.58433 |
| Cu 324.754 | 0.7986 | ppb | 0.1649 | 20.6 | 305.924 | 0.79859 |
| Fe 271.441 | -0.1214 | ppb | 1.2518 | 1031.3 | 6.6606 | -0.12138 |
| K 766.491 | 1.4314 | ppb | 0.2634 | 18.4 | 386.314 | 1.43137 |
| Mg 279.078 | -1.3045 | ppb | 1.4854 | 113.9 | 15.7493 | -1.30446 |
| Mn 257.610 | 0.6657 | ppb | 0.0378 | 5.7 | 178.346 | 0.66570 |
| Mo 202.032 | 0.7565 | ppb | 0.1182 | 15.6 | 10.9564 | 0.75648 |
| Na 330.237 | -46.8629 | ppb | 42.5941 | 90.9 | 19.7798 | -46.86286 |
| Ni 231.604 | 1.0741 | ppb | 0.4040 | 37.6 | -1.8014 | 1.07406 |
| Pb 220.353 | -0.1516 | ppb | 1.0774 | 710.6 | 0.2191 | -0.15163 |
| Sb 206.834 | 3.0378 | ppb | 2.9384 | 96.7 | 5.1233 | 3.03784 |
| Se 196.026 | 4.9059 | ppb | 2.3497 | 47.9 | 4.6290 | 4.90592 |
| Sn 189.925 | 2.5437 | ppb | 3.0755 | 120.9 | -3.7004 | 2.54365 |
| Sr 216.596 | 0.4250 | ppb | 0.1704 | 40.1 | 6.9973 | 0.42497 |
| Ti 334.941 | 0.1020 | ppb | 0.0342 | 33.6 | -33.5718 | 0.10201 |
| Tl 190.794 | 3.9971 | ppb | 1.2896 | 32.3 | -2.0556 | 3.99714 |
| V 292.401 | 0.5170 | ppb | 0.0444 | 8.6 | 6.1646 | 0.51695 |
| Zn 206.200 | 0.0399 | ppb | 1.2609 | 3160.5 | 1.2411 | 0.03990 |

**680-106194-b-2-a (Samp)** **10/16/2014, 10:04:47 AM** **Rack 4, Tube 15**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 1.1411 | 0.7837 | 1.2115 |
| Al 308.215 | 6299.96 | 6180.17 | 6018.73 |
| As 188.980 | 83.1006 | 81.7191 | 83.1139 |
| B 249.678 | 24.1138u | 24.1685u | 23.4181u |
| Ba 389.178 | 528.174 | 518.920 | 505.196 |
| Be 313.042 | 0.9305 | 0.9102 | 0.8795 |
| Ca 370.602 | 35016 | 34396 | 33505 |
| Cd 226.502 | 19.5985 | 18.8792 | 17.7455 |
| Co 228.615 | 24.7163 | 24.2972 | 24.0297 |
| Cr 267.716 | 333.472 | 328.625 | 319.476 |
| Cu 324.754 | 2322.19 | 2264.32 | 2209.94 |
| Fe 271.441 | 204472 | 201075 | 195583 |
| K 766.491 | 424.255 | 414.254 | 403.771 |
| Mg 279.078 | 5583.08 | 5501.20 | 5349.02 |
| Mn 257.610 | 1736.03 | 1706.73 | 1661.98 |
| Mo 202.032 | 101.666 | 100.325 | 97.8061 |
| Na 330.237 | 407.580u | 578.808u | 705.816u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 194.571 | 191.257 | 184.515 |
| Pb 220.353 | 792.963 | 783.749 | 760.356 |
| Sb 206.834 | 5.9091 | 5.1957 | 3.3925 |
| Se 196.026 | 1.6219 | 4.9122 | 8.1734 |
| Sn 189.925 | 81.0614 | 76.8332 | 78.6707 |
| Sr 216.596 | 130.104 | 127.340 | 123.386 |
| Ti 334.941 | 210.863 | 207.206 | 202.226 |
| Tl 190.794 | -2.0804u | -4.5060u | -5.6726u |
| V 292.401 | 33.6356 | 33.0301 | 31.9960 |
| Zn 206.200 | 1440.45 | 1413.55 | 1388.59 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 1.0454 | ppb | 0.2294 | 21.9 | 42.7419 |
| Al 308.215 | 6166.29 | ppb | 141.126 | 2.3 | 41545.3 |
| As 188.980 | 82.6445 | ppb | 0.8015 | 1.0 | 40.8857 |
| B 249.678 | 23.9001 | ppb | 0.4183 | 1.8 | -27.8461 |
| Ba 389.178 | 517.430 | ppb | 11.5612 | 2.2 | 10551.9 |
| Be 313.042 | 0.9067 | ppb | 0.0257 | 2.8 | 1152.53 |
| Ca 370.602 | 34306 | ppb | 759.3 | 2.2 | 77450 |
| Cd 226.502 | 18.7411 | ppb | 0.9342 | 5.0 | 1438.04 |
| Co 228.615 | 24.3477 | ppb | 0.3461 | 1.4 | 271.436 |
| Cr 267.716 | 327.191 | ppb | 7.1075 | 2.2 | 16363.4 |
| Cu 324.754 | 2265.48 | ppb | 56.1299 | 2.5 | 159230 |
| Fe 271.441 | 200377 | ppb | 4485.04 | 2.2 | 282192 |
| K 766.491 | 414.093 | ppb | 10.2433 | 2.5 | 18039.2 |
| Mg 279.078 | 5477.77 | ppb | 118.779 | 2.2 | 13293.3 |
| Mn 257.610 | 1701.58 | ppb | 37.2928 | 2.2 | 352531 |
| Mo 202.032 | 99.9324 | ppb | 1.9598 | 2.0 | 616.023 |
| Na 330.237 | 564.068 | ppb | 149.663 | 26.5 | -34.3301 |
| Ni 231.604 | 190.114 | ppb | 5.1244 | 2.7 | 537.273 |
| Pb 220.353 | 779.022 | ppb | 16.8094 | 2.2 | 1099.32 |
| Sb 206.834 | 4.8324 | ppb | 1.2970 | 26.8 | 15.4508 |
| Se 196.026 | 4.9025 | ppb | 3.2758 | 66.8 | 6.4938 |
| Sn 189.925 | 78.8551 | ppb | 2.1202 | 2.7 | 46.4729 |
| Sr 216.596 | 126.943 | ppb | 3.3768 | 2.7 | 1613.53 |
| Ti 334.941 | 206.765 | ppb | 4.3354 | 2.1 | 57343.9 |
| Tl 190.794 | -4.0863 | ppb | 1.8325 | 44.8 | -33.6982 |
| V 292.401 | 32.8872 | ppb | 0.8291 | 2.5 | 890.771 |
| Zn 206.200 | 1414.20 | ppb | 25.9396 | 1.8 | 1268.46 |

**680-106194-b-2-a (Samp)** **10/16/2014, 10:09:06 AM** **Rack 4, Tube 16**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.2837 | 0.4262 | 0.4572 |
| Al 308.215 | 1062.15 | 1038.26 | 1020.09 |
| As 188.980 | 16.3511 | 16.2692 | 18.1869 |
| B 249.678 | 4.9689 | 4.9308 | 4.9870 |
| Ba 389.178 | 93.7264 | 91.5925 | 89.1946 |
| Be 313.042 | 0.1425 | 0.1387 | 0.1271 |
| Ca 370.602 | 6082 | 5987 | 5860 |
| Cd 226.502 | 3.4325 | 3.1099 | 3.2152 |
| Co 228.615 | 4.2663 | 4.4374 | 4.0348 |
| Cr 267.716 | 57.9474 | 56.6396 | 55.6749 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 397.410 | 390.333 | 380.475 |
| Fe 271.441 | 35565.3 | 34829.0 | 34133.1 |
| K 766.491 | 71.0881 | 70.2663 | 68.3834 |
| Mg 279.078 | 992.852 | 964.945 | 944.752 |
| Mn 257.610 | 304.971 | 299.079 | 292.967 |
| Mo 202.032 | 17.6119 | 18.1802 | 16.6163 |
| Na 330.237 | -63.2257u | -87.3064u | -38.3542u |
| Ni 231.604 | 34.7592 | 33.7024 | 32.8319 |
| Pb 220.353 | 143.885 | 139.060 | 137.424 |
| Sb 206.834 | 0.7113 | 1.6172 | 0.1219 |
| Se 196.026 | -0.2479 | 6.8247 | -6.4066u |
| Sn 189.925 | 15.3004 | 17.1556 | 16.0026 |
| Sr 216.596 | 22.2544 | 22.3722 | 21.5363 |
| Ti 334.941 | 36.4805 | 35.6816 | 34.9851 |
| Tl 190.794 | -1.4841u | 3.8691u | -1.1216u |
| V 292.401 | 5.9307 | 5.9000 | 5.6230 |
| Zn 206.200 | 251.951 | 247.110 | 244.569 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.3890 | ppb | 0.0925 | 23.8 | 14.8310 |
| Al 308.215 | 1040.17 | ppb | 21.0950 | 2.0 | 7337.74 |
| As 188.980 | 16.9357 | ppb | 1.0843 | 6.4 | 6.4928 |
| B 249.678 | 4.9623 | ppb | 0.0287 | 0.6 | 36.6724 |
| Ba 389.178 | 91.5045 | ppb | 2.2672 | 2.5 | 1823.94 |
| Be 313.042 | 0.1361 | ppb | 0.0080 | 5.9 | -96.5623 |
| Ca 370.602 | 5976 | ppb | 111.3 | 1.9 | 13502 |
| Cd 226.502 | 3.2525 | ppb | 0.1645 | 5.1 | 260.695 |
| Co 228.615 | 4.2462 | ppb | 0.2020 | 4.8 | 49.9261 |
| Cr 267.716 | 56.7540 | ppb | 1.1405 | 2.0 | 2864.15 |
| Cu 324.754 | 389.406 | ppb | 8.5057 | 2.2 | 27576.6 |
| Fe 271.441 | 34842.4 | ppb | 716.216 | 2.1 | 49074.6 |
| K 766.491 | 69.9126 | ppb | 1.3866 | 2.0 | 3315.82 |
| Mg 279.078 | 967.516 | ppb | 24.1531 | 2.5 | 2363.58 |
| Mn 257.610 | 299.006 | ppb | 6.0023 | 2.0 | 61980.0 |
| Mo 202.032 | 17.4695 | ppb | 0.7916 | 4.5 | 112.876 |
| Na 330.237 | -62.9621 | ppb | 24.4772 | 38.9 | 4.4942 |
| Ni 231.604 | 33.7645 | ppb | 0.9651 | 2.9 | 91.4336 |
| Pb 220.353 | 140.123 | ppb | 3.3589 | 2.4 | 198.166 |
| Sb 206.834 | 0.8168 | ppb | 0.7532 | 92.2 | 3.5842 |
| Se 196.026 | 0.0567 | ppb | 6.6209 | 11668.9 | 3.0869 |
| Sn 189.925 | 16.1529 | ppb | 0.9367 | 5.8 | 5.2474 |
| Sr 216.596 | 22.0543 | ppb | 0.4524 | 2.1 | 282.337 |
| Ti 334.941 | 35.7157 | ppb | 0.7483 | 2.1 | 9854.23 |
| Tl 190.794 | 0.4211 | ppb | 2.9915 | 710.3 | -9.6754 |
| V 292.401 | 5.8179 | ppb | 0.1695 | 2.9 | 151.611 |
| Zn 206.200 | 247.877 | ppb | 3.7502 | 1.5 | 223.340 |

**680-106194-b-2-a (Samp)** **10/16/2014, 10:13:25 AM** **Rack 4, Tube 17**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 99.3215 | 96.5243 | 93.2642 |
| Al 308.215 | 7048.78 | 6849.21 | 6625.70 |
| As 188.980 | 189.278 | 189.655 | 184.461 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 222.594 | 218.418 | 213.346 |
| Ba 389.178 | 586.563 | 572.296 | 554.678 |
| Be 313.042 | 105.750 | 103.129 | 99.8001 |
| Ca 370.602 | 42882 | 41785 | 40350 |
| Cd 226.502 | 121.166 | 118.170 | 113.571 |
| Co 228.615 | 126.369 | 123.302 | 119.080 |
| Cr 267.716 | 417.589 | 406.117 | 393.533 |
| Cu 324.754 | 2297.47 | 2236.18 | 2162.56 |
| Fe 271.441 | 202292 | 197097 | 191035 |
| K 766.491 | 11703.4 | 11399.3 | 11021.6 |
| Mg 279.078 | 15472.0 | 15032.1 | 14565.4 |
| Mn 257.610 | 2712.55 | 2640.24 | 2556.93 |
| Mo 202.032 | 198.945 | 194.548 | 188.058 |
| Na 330.237 | 9900.34 | 9726.53 | 9373.11 |
| Ni 231.604 | 286.321 | 276.776 | 267.863 |
| Pb 220.353 | 854.545 | 829.749 | 802.695 |
| Sb 206.834 | 108.913 | 102.608 | 99.6023 |
| Se 196.026 | 111.802 | 110.028 | 101.144 |
| Sn 189.925 | 177.266 | 176.226 | 164.949 |
| Sr 216.596 | 225.101 | 219.372 | 212.189 |
| Ti 334.941 | 298.932 | 291.033 | 281.371 |
| Tl 190.794 | 14.2166u | 16.6525u | 16.9474u |
| V 292.401 | 136.367 | 132.754 | 128.253 |
| Zn 206.200 | 1455.73 | 1417.89 | 1380.05 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 96.3700 | ppb | 3.0316 | 3.1 | 7417.37 |
| Al 308.215 | 6841.23 | ppb | 211.654 | 3.1 | 46019.9 |
| As 188.980 | 187.798 | ppb | 2.8963 | 1.5 | 97.3022 |
| B 249.678 | 218.119 | ppb | 4.6317 | 2.1 | 2918.00 |
| Ba 389.178 | 571.179 | ppb | 15.9718 | 2.8 | 11652.9 |
| Be 313.042 | 102.893 | ppb | 2.9818 | 2.9 | 167177 |
| Ca 370.602 | 41672 | ppb | 1270 | 3.0 | 94565 |
| Cd 226.502 | 117.636 | ppb | 3.8260 | 3.3 | 5125.95 |
| Co 228.615 | 122.917 | ppb | 3.6594 | 3.0 | 1297.36 |
| Cr 267.716 | 405.747 | ppb | 12.0325 | 3.0 | 20262.5 |
| Cu 324.754 | 2232.07 | ppb | 67.5486 | 3.0 | 156887 |
| Fe 271.441 | 196808 | ppb | 5633.95 | 2.9 | 277178 |
| K 766.491 | 11374.8 | ppb | 341.605 | 3.0 | 486917 |
| Mg 279.078 | 15023.2 | ppb | 453.403 | 3.0 | 36466.3 |
| Mn 257.610 | 2636.58 | ppb | 77.8716 | 3.0 | 545939 |
| Mo 202.032 | 193.850 | ppb | 5.4765 | 2.8 | 1197.28 |
| Na 330.237 | 9666.66 | ppb | 268.665 | 2.8 | 401.404 |
| Ni 231.604 | 276.987 | ppb | 9.2309 | 3.3 | 777.421 |
| Pb 220.353 | 828.996 | ppb | 25.9332 | 3.1 | 1170.84 |
| Sb 206.834 | 103.708 | ppb | 4.7515 | 4.6 | 145.090 |
| Se 196.026 | 107.658 | ppb | 5.7108 | 5.3 | 46.2094 |
| Sn 189.925 | 172.814 | ppb | 6.8306 | 4.0 | 108.252 |
| Sr 216.596 | 218.887 | ppb | 6.4701 | 3.0 | 2613.48 |
| Ti 334.941 | 290.445 | ppb | 8.7951 | 3.0 | 80578.6 |
| Tl 190.794 | 15.9388 | ppb | 1.4987 | 9.4 | -13.1183 |
| V 292.401 | 132.458 | ppb | 4.0651 | 3.1 | 3452.99 |
| Zn 206.200 | 1417.89 | ppb | 37.8397 | 2.7 | 1271.73 |

**680-106194-b-2-b ms (Samp)** **10/16/2014, 10:17:44 AM** **Rack 4, Tube 18**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 6.7229 | 6.9496 | 6.6396 |
| Al 308.215 | 7993.43 | 7658.13 | 7382.87 |
| As 188.980 | 41.1067 | 39.6609 | 38.2380 |
| B 249.678 | 45.5928 | 45.0933 | 45.0906 |
| Ba 389.178 | 254.184 | 243.596 | 234.395 |
| Be 313.042 | 6.0613 | 5.7980 | 5.6185 |
| Ca 370.602 | 86004 | 82233 | 79631 |
| Cd 226.502 | 12.5197 | 11.3590 | 10.4238 |
| Co 228.615 | 22.0210 | 20.9557 | 20.2406 |
| Cr 267.716 | 367.850 | 351.707 | 340.485 |
| Cu 324.754 | 2948.24 | 2789.88 | 2726.80 |
| Fe 271.441 | 169180 | 162282 | 157068 |
| K 766.491 | 1112.47 | 1064.24 | 1027.17 |
| Mg 279.078 | 4281.54 | 4119.86 | 3969.60 |
| Mn 257.610 | 1966.51 | 1882.17 | 1821.62 |
| Mo 202.032 | 135.470 | 129.932 | 126.104 |
| Na 330.237 | 1109.24u | 1054.21u | 916.158u |
| Ni 231.604 | 185.730 | 180.795 | 170.172 |
| Pb 220.353 | 759.065 | 725.038 | 700.457 |
| Sb 206.834 | 10.1920 | 5.8891 | 9.4978 |
| Se 196.026 | 13.1549 | 12.3295 | 20.2495 |
| Sn 189.925 | 217.509 | 205.432 | 199.737 |
| Sr 216.596 | 144.837 | 139.258 | 132.512 |
| Ti 334.941 | 196.756 | 188.509 | 182.238 |
| Tl 190.794 | -1.9534u | 0.9777u | 0.2507u |
| V 292.401 | 42.8587 | 41.7429 | 40.0794 |
| Zn 206.200 | 1300.23 | 1251.60 | 1203.96 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 6.7707 | ppb | 0.1604 | 2.4 | 491.902 |
| Al 308.215 | 7678.14 | ppb | 305.772 | 4.0 | 51488.9 |
| As 188.980 | 39.6685 | ppb | 1.4344 | 3.6 | 18.0361 |
| B 249.678 | 45.2589 | ppb | 0.2892 | 0.6 | 374.938 |
| Ba 389.178 | 244.059 | ppb | 9.9025 | 4.1 | 4987.02 |
| Be 313.042 | 5.8259 | ppb | 0.2227 | 3.8 | 9174.08 |
| Ca 370.602 | 82622 | ppb | 3204 | 3.9 | 189511 |
| Cd 226.502 | 11.4342 | ppb | 1.0500 | 9.2 | 1028.73 |
| Co 228.615 | 21.0724 | ppb | 0.8959 | 4.3 | 233.839 |
| Cr 267.716 | 353.347 | ppb | 13.7563 | 3.9 | 17645.5 |
| Cu 324.754 | 2821.64 | ppb | 114.084 | 4.0 | 198222 |
| Fe 271.441 | 162843 | ppb | 6075.60 | 3.7 | 229335 |
| K 766.491 | 1067.96 | ppb | 42.7731 | 4.0 | 46010.5 |
| Mg 279.078 | 4123.67 | ppb | 156.003 | 3.8 | 9999.52 |
| Mn 257.610 | 1890.10 | ppb | 72.7689 | 3.8 | 391398 |
| Mo 202.032 | 130.502 | ppb | 4.7091 | 3.6 | 806.812 |
| Na 330.237 | 1026.54 | ppb | 99.4732 | 9.7 | 0.8116 |
| Ni 231.604 | 178.899 | ppb | 7.9502 | 4.4 | 503.310 |
| Pb 220.353 | 728.186 | ppb | 29.4305 | 4.0 | 1029.13 |
| Sb 206.834 | 8.5263 | ppb | 2.3101 | 27.1 | 18.9969 |
| Se 196.026 | 15.2446 | ppb | 4.3540 | 28.6 | 10.2236 |
| Sn 189.925 | 207.559 | ppb | 9.0753 | 4.4 | 131.094 |
| Sr 216.596 | 138.869 | ppb | 6.1718 | 4.4 | 1720.15 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 189.168 | ppb | 7.2812 | 3.8 | 52454.5 |
| Tl 190.794 | -0.2416 | ppb | 1.5263 | 631.7 | -25.3748 |
| V 292.401 | 41.5604 | ppb | 1.3986 | 3.4 | 1095.67 |
| Zn 206.200 | 1251.93 | ppb | 48.1371 | 3.8 | 1123.46 |

**680-106194-b-2-c msd (Samp)** **10/16/2014, 10:22:03 AM** **Rack 4, Tube 19**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 5.8457 | 5.5366 | 6.1507 |
| Al 308.215 | 5721.18 | 5585.53 | 5451.46 |
| As 188.980 | 45.0501 | 44.0440 | 45.8781 |
| B 249.678 | 35.6914 | 36.5233 | 36.5573 |
| Ba 389.178 | 269.080 | 263.004 | 256.742 |
| Be 313.042 | 5.6802 | 5.5359 | 5.4199 |
| Ca 370.602 | 110089 | 106659 | 103886 |
| Cd 226.502 | 10.9545 | 10.7063 | 10.1169 |
| Co 228.615 | 29.7763 | 28.6709 | 28.5609 |
| Cr 267.716 | 364.513 | 354.848 | 347.017 |
| Cu 324.754 | 1976.49 | 1900.77 | 1878.45 |
| Fe 271.441 | 193713 | 188751 | 184654 |
| K 766.491 | 976.064 | 948.703 | 928.655 |
| Mg 279.078 | 18368.8 | 17900.8 | 17501.5 |
| Mn 257.610 | 1754.41 | 1707.78 | 1671.29 |
| Mo 202.032 | 122.489 | 119.770 | 116.455 |
| Na 330.237 | 815.346u | 894.824u | 958.787u |
| Ni 231.604 | 220.064 | 212.322 | 208.399 |
| Pb 220.353 | 424.401 | 410.725 | 404.690 |
| Sb 206.834 | 6.4249 | 7.0317 | 5.5159 |
| Se 196.026 | 8.4656 | 13.8909 | 8.5763 |
| Sn 189.925 | 86.3170 | 83.9514 | 80.2212 |
| Sr 216.596 | 166.995 | 161.403 | 156.809 |
| Ti 334.941 | 170.722 | 166.362 | 162.323 |
| Tl 190.794 | -2.7166u | -0.2574u | -0.6473u |
| V 292.401 | 66.9206 | 64.9319 | 63.5574 |
| Zn 206.200 | 1049.37 | 1017.81 | 1000.44 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 5.8444 | ppb | 0.3070 | 5.3 | 414.302 |
| Al 308.215 | 5586.05 | ppb | 134.861 | 2.4 | 37690.6 |
| As 188.980 | 44.9907 | ppb | 0.9185 | 2.0 | 20.7370 |
| B 249.678 | 36.2574 | ppb | 0.4904 | 1.4 | 183.400 |
| Ba 389.178 | 262.942 | ppb | 6.1695 | 2.3 | 5400.67 |
| Be 313.042 | 5.5453 | ppb | 0.1304 | 2.4 | 8726.41 |
| Ca 370.602 | 106878 | ppb | 3107 | 2.9 | 245312 |
| Cd 226.502 | 10.5926 | ppb | 0.4302 | 4.1 | 1091.74 |
| Co 228.615 | 29.0027 | ppb | 0.6722 | 2.3 | 317.986 |
| Cr 267.716 | 355.460 | ppb | 8.7640 | 2.5 | 17760.8 |
| Cu 324.754 | 1918.57 | ppb | 51.3847 | 2.7 | 134894 |
| Fe 271.441 | 189039 | ppb | 4536.23 | 2.4 | 266227 |
| K 766.491 | 951.141 | ppb | 23.7986 | 2.5 | 41013.1 |
| Mg 279.078 | 17923.7 | ppb | 434.083 | 2.4 | 43530.8 |
| Mn 257.610 | 1711.16 | ppb | 41.6601 | 2.4 | 354570 |
| Mo 202.032 | 119.571 | ppb | 3.0216 | 2.5 | 738.019 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 889.652 | ppb | 71.8600 | 8.1 | -6.1962 |
| Ni 231.604 | 213.595 | ppb | 5.9358 | 2.8 | 601.420 |
| Pb 220.353 | 413.272 | ppb | 10.0992 | 2.4 | 578.506 |
| Sb 206.834 | 6.3241 | ppb | 0.7629 | 12.1 | 17.0550 |
| Se 196.026 | 10.3110 | ppb | 3.1008 | 30.1 | 8.4898 |
| Sn 189.925 | 83.4966 | ppb | 3.0732 | 3.7 | 49.5247 |
| Sr 216.596 | 161.736 | ppb | 5.1010 | 3.2 | 2006.41 |
| Ti 334.941 | 166.469 | ppb | 4.2009 | 2.5 | 46182.1 |
| Tl 190.794 | -1.2071 | ppb | 1.3217 | 109.5 | -29.4831 |
| V 292.401 | 65.1367 | ppb | 1.6909 | 2.6 | 1717.63 |
| Zn 206.200 | 1022.54 | ppb | 24.8074 | 2.4 | 915.491 |

**680-106194-b-3-a (Samp)** **10/16/2014, 10:26:22 AM** **Rack 4, Tube 20**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.4506 | 0.7330 | 0.9180 |
| Al 308.215 | 5496.45 | 5367.94 | 5225.84 |
| As 188.980 | 38.1994 | 34.8473 | 28.1434 |
| B 249.678 | 21.2867u | 21.3569u | 21.6379u |
| Ba 389.178 | 309.655 | 301.986 | 293.115 |
| Be 313.042 | 0.6173 | 0.5995 | 0.5944 |
| Ca 370.602 | 47655 | 46294 | 45198 |
| Cd 226.502 | 6.3123 | 5.6879 | 4.9712 |
| Co 228.615 | 19.8337 | 19.4530 | 18.3408 |
| Cr 267.716 | 345.114 | 336.295 | 327.035 |
| Cu 324.754 | 2981.60 | 2878.15 | 2827.20 |
| Fe 271.441 | 257025 | 250104 | 244292 |
| K 766.491 | 545.572 | 532.370 | 517.790 |
| Mg 279.078 | 14804.0 | 14439.0 | 14069.2 |
| Mn 257.610 | 2173.52 | 2113.45 | 2061.89 |
| Mo 202.032 | 112.567 | 112.354 | 107.656 |
| Na 330.237 | 351.098u | 534.931u | 371.244u |
| Ni 231.604 | 243.368 | 238.936 | 231.813 |
| Pb 220.353 | 349.382 | 338.512 | 334.918 |
| Sb 206.834 | 6.5937 | 5.2280 | 0.3287 |
| Se 196.026 | 12.3637 | 1.0020 | 5.8679 |
| Sn 189.925 | 51.4377 | 44.8926 | 43.2298 |
| Sr 216.596 | 102.954 | 99.8174 | 97.7363 |
| Ti 334.941 | 158.327 | 154.198 | 150.337 |
| Tl 190.794 | -7.6497u | -5.9925u | -0.9751u |
| V 292.401 | 32.6161 | 31.7735 | 31.1323 |
| Zn 206.200 | 1001.60 | 976.864 | 952.448 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.7005 | ppb | 0.2353 | 33.6 | 10.7803 |
| Al 308.215 | 5363.41 | ppb | 135.361 | 2.5 | 36316.9 |
| As 188.980 | 33.7300 | ppb | 5.1202 | 15.2 | 14.3692 |
| B 249.678 | 21.4272 | ppb | 0.1859 | 0.9 | -170.855 |
| Ba 389.178 | 301.586 | ppb | 8.2773 | 2.7 | 6210.81 |
| Be 313.042 | 0.6038 | ppb | 0.0120 | 2.0 | 659.918 |
| Ca 370.602 | 46382 | ppb | 1231 | 2.7 | 104865 |
| Cd 226.502 | 5.6571 | ppb | 0.6711 | 11.9 | 1128.33 |
| Co 228.615 | 19.2092 | ppb | 0.7757 | 4.0 | 219.756 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 336.148 | ppb | 9.0403 | 2.7 | 16831.9 |
| Cu 324.754 | 2895.65 | ppb | 78.6722 | 2.7 | 203449 |
| Fe 271.441 | 250473 | ppb | 6374.40 | 2.5 | 352741 |
| K 766.491 | 531.911 | ppb | 13.8965 | 2.6 | 23079.3 |
| Mg 279.078 | 14437.4 | ppb | 367.418 | 2.5 | 35053.3 |
| Mn 257.610 | 2116.29 | ppb | 55.8716 | 2.6 | 438497 |
| Mo 202.032 | 110.859 | ppb | 2.7760 | 2.5 | 681.494 |
| Na 330.237 | 419.091 | ppb | 100.825 | 24.1 | -42.0665 |
| Ni 231.604 | 238.039 | ppb | 5.8293 | 2.4 | 673.883 |
| Pb 220.353 | 340.938 | ppb | 7.5309 | 2.2 | 471.706 |
| Sb 206.834 | 4.0501 | ppb | 3.2944 | 81.3 | 15.8408 |
| Se 196.026 | 6.4112 | ppb | 5.7003 | 88.9 | 7.5366 |
| Sn 189.925 | 46.5200 | ppb | 4.3392 | 9.3 | 25.2130 |
| Sr 216.596 | 100.169 | ppb | 2.6268 | 2.6 | 1377.98 |
| Ti 334.941 | 154.287 | ppb | 3.9956 | 2.6 | 42803.0 |
| Tl 190.794 | -4.8725 | ppb | 3.4754 | 71.3 | -40.3741 |
| V 292.401 | 31.8406 | ppb | 0.7442 | 2.3 | 878.874 |
| Zn 206.200 | 976.972 | ppb | 24.5780 | 2.5 | 872.064 |

**680-106200-b-31-a (Samp)** **10/16/2014, 10:30:41 AM** **Rack 4, Tube 21**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0600 | -0.0301 | -0.1367 |
| Al 308.215 | 10894.3 | 10520.4 | 10300.4 |
| As 188.980 | 35.4427 | 28.2469 | 27.3610 |
| B 249.678 | 11.0360 | 10.8964 | 10.8408 |
| Ba 389.178 | 464.601 | 449.772 | 440.404 |
| Be 313.042 | 1.4942 | 1.4310 | 1.4048 |
| Ca 370.602 | 7467 | 7173 | 7000 |
| Cd 226.502 | 2.0179 | 2.0104 | 1.8547 |
| Co 228.615 | 27.3972 | 25.6576 | 25.6429 |
| Cr 267.716 | 29.9773 | 28.9001 | 28.2366 |
| Cu 324.754 | 72.5368 | 70.5758 | 69.2940 |
| Fe 271.441 | 27481.3 | 26506.6 | 26012.0 |
| K 766.491 | 1037.86 | 1010.54 | 984.823 |
| Mg 279.078 | 1140.85 | 1101.50 | 1085.84 |
| Mn 257.610 | 3834.04 | 3703.00 | 3627.27 |
| Mo 202.032 | 3.3088 | 4.2255 | 3.6630 |
| Na 330.237 | 250.810u | 262.905u | 243.757u |
| Ni 231.604 | 19.3895 | 17.9992 | 18.4124 |
| Pb 220.353 | 246.714 | 238.330 | 231.309 |
| Sb 206.834 | 3.8672 | 6.7685 | 5.3163 |
| Se 196.026 | 1.6413 | 10.3886 | 5.0397 |
| Sn 189.925 | 17.1200 | 23.5924 | 18.4877 |
| Sr 216.596 | 99.1035 | 95.3885 | 93.6196 |
| Ti 334.941 | 183.337 | 176.773 | 173.114 |
| Tl 190.794 | -0.6146u | 0.0529u | -0.4086u |
| V 292.401 | 45.0204 | 43.3755 | 42.2754 |
| Zn 206.200 | 473.643 | 459.473 | 443.813 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0356 | ppb | 0.0985 | 276.8 | -2.5794 |
| Al 308.215 | 10571.7 | ppb | 300.249 | 2.8 | 70399.9 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 30.3502 | ppb | 4.4324 | 14.6 | 13.8166 |
| B 249.678 | 10.9244 | ppb | 0.1006 | 0.9 | 144.271 |
| Ba 389.178 | 451.592 | ppb | 12.2005 | 2.7 | 9123.04 |
| Be 313.042 | 1.4433 | ppb | 0.0459 | 3.2 | 2035.58 |
| Ca 370.602 | 7213 | ppb | 236.4 | 3.3 | 16566 |
| Cd 226.502 | 1.9610 | ppb | 0.0922 | 4.7 | 182.766 |
| Co 228.615 | 26.2326 | ppb | 1.0086 | 3.8 | 281.503 |
| Cr 267.716 | 29.0380 | ppb | 0.8785 | 3.0 | 1500.66 |
| Cu 324.754 | 70.8022 | ppb | 1.6332 | 2.3 | 5226.38 |
| Fe 271.441 | 26666.6 | ppb | 747.612 | 2.8 | 37563.6 |
| K 766.491 | 1011.07 | ppb | 26.5238 | 2.6 | 43577.0 |
| Mg 279.078 | 1109.39 | ppb | 28.3422 | 2.6 | 2641.16 |
| Mn 257.610 | 3721.44 | ppb | 104.614 | 2.8 | 769688 |
| Mo 202.032 | 3.7325 | ppb | 0.4623 | 12.4 | 28.1820 |
| Na 330.237 | 252.491 | ppb | 9.6844 | 3.8 | 15.9287 |
| Ni 231.604 | 18.6004 | ppb | 0.7140 | 3.8 | 48.7482 |
| Pb 220.353 | 238.784 | ppb | 7.7127 | 3.2 | 339.796 |
| Sb 206.834 | 5.3173 | ppb | 1.4507 | 27.3 | 9.1989 |
| Se 196.026 | 5.6899 | ppb | 4.4098 | 77.5 | 5.8590 |
| Sn 189.925 | 19.7333 | ppb | 3.4113 | 17.3 | 7.6015 |
| Sr 216.596 | 96.0372 | ppb | 2.7989 | 2.9 | 1082.74 |
| Ti 334.941 | 177.741 | ppb | 5.1802 | 2.9 | 49263.4 |
| Tl 190.794 | -0.3234 | ppb | 0.3418 | 105.7 | -7.6715 |
| V 292.401 | 43.5571 | ppb | 1.3815 | 3.2 | 1132.20 |
| Zn 206.200 | 458.976 | ppb | 14.9213 | 3.3 | 414.176 |

**680-106200-b-31-b ms (Samp)** **10/16/2014, 10:35:00 AM** **Rack 4, Tube 22**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 5.3422 | 5.0886 | 5.3880 |
| Al 308.215 | 12204.8 | 12147.9 | 11953.0 |
| As 188.980 | 48.6326 | 44.4522 | 45.9856 |
| B 249.678 | 25.5732 | 24.8948 | 24.4669 |
| Ba 389.178 | 349.764 | 344.205 | 336.853 |
| Be 313.042 | 6.6899 | 6.5955 | 6.4621 |
| Ca 370.602 | 8726 | 8643 | 8458 |
| Cd 226.502 | 7.6068 | 7.4216 | 7.2479 |
| Co 228.615 | 16.9125 | 16.8027 | 16.8591 |
| Cr 267.716 | 46.3500 | 45.5406 | 44.3663 |
| Cu 324.754 | 87.9748 | 87.7387 | 84.5839 |
| Fe 271.441 | 33009.8 | 32605.5 | 31854.7 |
| K 766.491 | 1641.95 | 1620.65 | 1584.72 |
| Mg 279.078 | 1718.22 | 1699.50 | 1655.28 |
| Mn 257.610 | 1776.66 | 1751.46 | 1712.66 |
| Mo 202.032 | 12.5320 | 11.9776 | 11.5116 |
| Na 330.237 | 679.928 | 642.284 | 596.130 |
| Ni 231.604 | 29.0750 | 27.4518 | 27.7637 |
| Pb 220.353 | 331.536 | 326.342 | 315.798 |
| Sb 206.834 | 6.1638 | 3.0263 | 8.6752 |
| Se 196.026 | 10.9463 | 13.8140 | 13.0505 |
| Sn 189.925 | 49.4485 | 50.9431 | 51.8795 |
| Sr 216.596 | 106.833 | 104.920 | 103.436 |
| Ti 334.941 | 194.083 | 191.238 | 187.118 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 3.4366 | 5.1238 | 6.8251 |
| V 292.401 | 52.0115 | 51.1082 | 50.4662 |
| Zn 206.200 | 548.481 | 551.957 | 529.892 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 5.2729 | ppb | 0.1612 | 3.1 | 397.378 |
| Al 308.215 | 12101.9 | ppb | 132.060 | 1.1 | 80536.9 |
| As 188.980 | 46.3568 | ppb | 2.1147 | 4.6 | 22.3839 |
| B 249.678 | 24.9783 | ppb | 0.5578 | 2.2 | 344.508 |
| Ba 389.178 | 343.607 | ppb | 6.4763 | 1.9 | 6936.68 |
| Be 313.042 | 6.5825 | ppb | 0.1144 | 1.7 | 10402.2 |
| Ca 370.602 | 8609 | ppb | 137.1 | 1.6 | 19698 |
| Cd 226.502 | 7.4255 | ppb | 0.1795 | 2.4 | 408.191 |
| Co 228.615 | 16.8581 | ppb | 0.0549 | 0.3 | 184.269 |
| Cr 267.716 | 45.4189 | ppb | 0.9974 | 2.2 | 2307.07 |
| Cu 324.754 | 86.7658 | ppb | 1.8932 | 2.2 | 6348.63 |
| Fe 271.441 | 32490.0 | ppb | 586.151 | 1.8 | 45763.5 |
| K 766.491 | 1615.77 | ppb | 28.9253 | 1.8 | 69445.0 |
| Mg 279.078 | 1691.00 | ppb | 32.3221 | 1.9 | 4090.57 |
| Mn 257.610 | 1746.93 | ppb | 32.2401 | 1.8 | 361397 |
| Mo 202.032 | 12.0071 | ppb | 0.5109 | 4.3 | 79.1308 |
| Na 330.237 | 639.448 | ppb | 41.9711 | 6.6 | 30.9311 |
| Ni 231.604 | 28.0969 | ppb | 0.8614 | 3.1 | 75.5239 |
| Pb 220.353 | 324.559 | ppb | 8.0191 | 2.5 | 461.361 |
| Sb 206.834 | 5.9551 | ppb | 2.8302 | 47.5 | 10.2693 |
| Se 196.026 | 12.6036 | ppb | 1.4852 | 11.8 | 8.1804 |
| Sn 189.925 | 50.7570 | ppb | 1.2261 | 2.4 | 27.9992 |
| Sr 216.596 | 105.063 | ppb | 1.7030 | 1.6 | 1187.80 |
| Ti 334.941 | 190.813 | ppb | 3.5018 | 1.8 | 52892.2 |
| Tl 190.794 | 5.1285 | ppb | 1.6942 | 33.0 | -3.9966 |
| V 292.401 | 51.1953 | ppb | 0.7763 | 1.5 | 1330.46 |
| Zn 206.200 | 543.443 | ppb | 11.8640 | 2.2 | 490.114 |

**680-106200-b-31-c ms (Samp)** **10/16/2014, 10:39:18 AM** **Rack 4, Tube 23**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 4.8991 | 5.0002 | 4.7335 |
| Al 308.215 | 13728.3 | 13392.9 | 12926.2 |
| As 188.980 | 42.1665 | 42.2505 | 32.2701 |
| B 249.678 | 30.2690 | 29.9812 | 29.4396 |
| Ba 389.178 | 395.239 | 386.249 | 373.545 |
| Be 313.042 | 6.8204 | 6.6545 | 6.4430 |
| Ca 370.602 | 16795 | 16295 | 15850 |
| Cd 226.502 | 6.9375 | 6.6131 | 6.2364 |
| Co 228.615 | 13.3720 | 12.9446 | 12.5688 |
| Cr 267.716 | 37.9014 | 36.7942 | 35.8119 |
| Cu 324.754 | 74.3093 | 72.6322 | 71.0863 |
| Fe 271.441 | 27731.1 | 27050.9 | 26114.7 |
| K 766.491 | 1767.26 | 1727.95 | 1666.67 |
| Mg 279.078 | 3245.21 | 3161.45 | 3068.32 |
| Mn 257.610 | 1088.85 | 1061.03 | 1027.34 |
| Mo 202.032 | 11.8794 | 11.7567 | 10.7080 |
| Na 330.237 | 806.179 | 529.887 | 851.573 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 24.4068 | 24.3396 | 23.8719 |
| Pb 220.353 | 271.284 | 263.566 | 255.969 |
| Sb 206.834 | 5.3105 | 7.3575 | 7.7064 |
| Se 196.026 | 5.4250 | 9.5715 | 11.1266 |
| Sn 189.925 | 43.9671 | 42.5162 | 41.6584 |
| Sr 216.596 | 144.283 | 141.097 | 136.723 |
| Ti 334.941 | 210.513 | 205.179 | 197.892 |
| Tl 190.794 | 2.2315u | 0.8438u | 3.0312 |
| V 292.401 | 46.4321 | 45.2814 | 43.7410 |
| Zn 206.200 | 462.294 | 458.369 | 446.637 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 4.8776 | ppb | 0.1346 | 2.8 | 363.220 |
| Al 308.215 | 13349.2 | ppb | 402.836 | 3.0 | 88780.4 |
| As 188.980 | 38.8957 | ppb | 5.7381 | 14.8 | 18.4213 |
| B 249.678 | 29.8966 | ppb | 0.4211 | 1.4 | 430.595 |
| Ba 389.178 | 385.011 | ppb | 10.8999 | 2.8 | 7775.48 |
| Be 313.042 | 6.6393 | ppb | 0.1892 | 2.8 | 10497.3 |
| Ca 370.602 | 16313 | ppb | 472.9 | 2.9 | 37553 |
| Cd 226.502 | 6.5957 | ppb | 0.3509 | 5.3 | 357.227 |
| Co 228.615 | 12.9618 | ppb | 0.4018 | 3.1 | 143.611 |
| Cr 267.716 | 36.8359 | ppb | 1.0454 | 2.8 | 1875.73 |
| Cu 324.754 | 72.6759 | ppb | 1.6120 | 2.2 | 5358.17 |
| Fe 271.441 | 26965.6 | ppb | 811.612 | 3.0 | 37983.1 |
| K 766.491 | 1720.63 | ppb | 50.6908 | 2.9 | 73930.4 |
| Mg 279.078 | 3158.33 | ppb | 88.4886 | 2.8 | 7667.83 |
| Mn 257.610 | 1059.07 | ppb | 30.8031 | 2.9 | 219149 |
| Mo 202.032 | 11.4480 | ppb | 0.6439 | 5.6 | 75.9151 |
| Na 330.237 | 729.213 | ppb | 174.107 | 23.9 | 38.6856 |
| Ni 231.604 | 24.2061 | ppb | 0.2913 | 1.2 | 64.3284 |
| Pb 220.353 | 263.607 | ppb | 7.6575 | 2.9 | 374.627 |
| Sb 206.834 | 6.7915 | ppb | 1.2944 | 19.1 | 11.1169 |
| Se 196.026 | 8.7077 | ppb | 2.9473 | 33.8 | 6.5047 |
| Sn 189.925 | 42.7139 | ppb | 1.1670 | 2.7 | 22.7110 |
| Sr 216.596 | 140.701 | ppb | 3.7953 | 2.7 | 1574.10 |
| Ti 334.941 | 204.528 | ppb | 6.3358 | 3.1 | 56699.8 |
| Tl 190.794 | 2.0355 | ppb | 1.1068 | 54.4 | -6.6830 |
| V 292.401 | 45.1515 | ppb | 1.3502 | 3.0 | 1172.47 |
| Zn 206.200 | 455.767 | ppb | 8.1465 | 1.8 | 411.250 |

**680-106200-b-53-a (Samp)** **10/16/2014, 10:43:37 AM** **Rack 4, Tube 24**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0705 | -0.2309 | -0.0784 |
| Al 308.215 | 12186.0 | 11960.4 | 11334.8 |
| As 188.980 | 29.2099 | 26.1431 | 25.5559 |
| B 249.678 | 4.8757u | 4.6320u | 4.9650u |
| Ba 389.178 | 283.637 | 274.430 | 259.853 |
| Be 313.042 | 1.2353 | 1.1972 | 1.1463 |
| Ca 370.602 | 20352 | 19735 | 18767 |
| Cd 226.502 | 1.6117 | 1.6223 | 1.2289 |
| Co 228.615 | 13.9018 | 14.3967 | 13.8206 |
| Cr 267.716 | 35.2151 | 34.2495 | 32.9850 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 79.9231 | 77.5670 | 74.3832 |
| Fe 271.441 | 36920.9 | 35808.0 | 34081.6 |
| K 766.491 | 3068.98 | 3003.91 | 2846.34 |
| Mg 279.078 | 3042.58 | 2955.38 | 2834.86 |
| Mn 257.610 | 6134.32 | 5967.37 | 5662.51 |
| Mo 202.032 | 3.3393 | 2.7822 | 2.4603 |
| Na 330.237 | 402.157u | 381.993u | 233.751u |
| Ni 231.604 | 24.1914 | 22.1055 | 21.5789 |
| Pb 220.353 | 303.767 | 302.404 | 284.066 |
| Sb 206.834 | 1.5800 | 0.8467 | 0.9413 |
| Se 196.026 | 4.4021 | -0.8432 | 8.4489 |
| Sn 189.925 | 13.0015 | 11.5015 | 9.4181 |
| Sr 216.596 | 52.7925 | 51.4375 | 49.3081 |
| Ti 334.941 | 170.045 | 165.069 | 156.728 |
| Tl 190.794 | 2.7339 | 2.0862 | 3.9911 |
| V 292.401 | 40.3238 | 38.8444 | 37.3439 |
| Zn 206.200 | 549.520 | 530.576 | 502.288 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1266 | ppb | 0.0904 | 71.4 | 0.7202 |
| Al 308.215 | 11827.1 | ppb | 441.019 | 3.7 | 78721.7 |
| As 188.980 | 26.9696 | ppb | 1.9623 | 7.3 | 11.9663 |
| B 249.678 | 4.8242 | ppb | 0.1724 | 3.6 | 33.1115 |
| Ba 389.178 | 272.640 | ppb | 11.9927 | 4.4 | 5500.43 |
| Be 313.042 | 1.1930 | ppb | 0.0447 | 3.7 | 1631.12 |
| Ca 370.602 | 19618 | ppb | 798.6 | 4.1 | 45194 |
| Cd 226.502 | 1.4876 | ppb | 0.2241 | 15.1 | 197.211 |
| Co 228.615 | 14.0397 | ppb | 0.3118 | 2.2 | 154.811 |
| Cr 267.716 | 34.1499 | ppb | 1.1184 | 3.3 | 1768.16 |
| Cu 324.754 | 77.2911 | ppb | 2.7802 | 3.6 | 5685.22 |
| Fe 271.441 | 35603.5 | ppb | 1430.64 | 4.0 | 50147.6 |
| K 766.491 | 2973.08 | ppb | 114.474 | 3.9 | 127508 |
| Mg 279.078 | 2944.27 | ppb | 104.305 | 3.5 | 7057.82 |
| Mn 257.610 | 5921.40 | ppb | 239.243 | 4.0 | 1224661 |
| Mo 202.032 | 2.8606 | ppb | 0.4447 | 15.5 | 22.4075 |
| Na 330.237 | 339.300 | ppb | 91.9624 | 27.1 | 16.3384 |
| Ni 231.604 | 22.6253 | ppb | 1.3816 | 6.1 | 60.6125 |
| Pb 220.353 | 296.746 | ppb | 11.0019 | 3.7 | 422.312 |
| Sb 206.834 | 1.1227 | ppb | 0.3989 | 35.5 | 4.0113 |
| Se 196.026 | 4.0026 | ppb | 4.6589 | 116.4 | 5.7026 |
| Sn 189.925 | 11.3070 | ppb | 1.7996 | 15.9 | 2.0614 |
| Sr 216.596 | 51.1794 | ppb | 1.7565 | 3.4 | 606.648 |
| Ti 334.941 | 163.947 | ppb | 6.7294 | 4.1 | 45440.0 |
| Tl 190.794 | 2.9371 | ppb | 0.9685 | 33.0 | -4.5974 |
| V 292.401 | 38.8374 | ppb | 1.4900 | 3.8 | 1012.84 |
| Zn 206.200 | 527.461 | ppb | 23.7700 | 4.5 | 475.605 |

**Cont Calib Verif (CCV)** **10/16/2014, 10:47:57 AM** **Rack 4, Tube 25**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 480.759 | 482.224 | 480.369 |
| Al 308.215 | 4722.36 | 4766.81 | 4786.24 |
| As 188.980 | 448.555 | 445.693 | 453.789 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 473.929 | 475.882 | 481.101 |
| Ba 389.178 | 4748.12 | 4738.81 | 4743.67 |
| Be 313.042 | 484.883 | 481.819 | 485.639 |
| Ca 370.602 | 4586 | 4589 | 4599 |
| Cd 226.502 | 479.432 | 481.234 | 484.098 |
| Co 228.615 | 482.208 | 481.343 | 483.141 |
| Cr 267.716 | 4785.35 | 4770.36 | 4794.43 |
| Cu 324.754 | 4979.63 | 4929.09 | 4958.57 |
| Fe 271.441 | 4775.13 | 4766.41 | 4792.46 |
| K 766.491 | 9904.91 | 9870.28 | 9898.18 |
| Mg 279.078 | 4748.81 | 4756.42 | 4792.45 |
| Mn 257.610 | 4854.79 | 4856.71 | 4884.74 |
| Mo 202.032 | 475.460 | 477.157 | 482.929 |
| Na 330.237 | 7620.22 | 7515.22 | 7498.85 |
| Ni 231.604 | 2413.27 | 2425.32 | 2439.30 |
| Pb 220.353 | 483.293 | 481.591 | 482.925 |
| Sb 206.834 | 896.982 | 907.741 | 906.228 |
| Se 196.026 | 4800.83 | 4828.42 | 4833.45 |
| Sn 189.925 | 4753.05 | 4773.42 | 4835.83 |
| Sr 216.596 | 2389.19 | 2396.59 | 2407.39 |
| Ti 334.941 | 468.678 | 467.041 | 468.964 |
| Tl 190.794 | 4784.56 | 4805.01 | 4828.86 |
| V 292.401 | 4757.56 | 4747.85 | 4765.96 |
| Zn 206.200 | 2385.91 | 2395.23 | 2408.37 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 481.117 | ppb | 0.9778 | 0.2 | 37157.0 | 96.22346 |
| Al 308.215 | 4758.47 | ppb | 32.7437 | 0.7 | 32381.8 | 95.16940 |
| As 188.980 | 449.346 | ppb | 4.1055 | 0.9 | 238.559 | 89.86913Q |
| B 249.678 | 476.971 | ppb | 3.7081 | 0.8 | 7249.89 | 95.39412 |
| Ba 389.178 | 4743.54 | ppb | 4.6558 | 0.1 | 96174.4 | 94.87071 |
| Be 313.042 | 484.114 | ppb | 2.0227 | 0.4 | 787978 | 96.82272 |
| Ca 370.602 | 4591 | ppb | 7.122 | 0.2 | 10882 | 91.82449 |
| Cd 226.502 | 481.588 | ppb | 2.3527 | 0.5 | 18053.6 | 96.31760 |
| Co 228.615 | 482.231 | ppb | 0.8994 | 0.2 | 5030.91 | 96.44620 |
| Cr 267.716 | 4783.38 | ppb | 12.1552 | 0.3 | 237366 | 95.66763 |
| Cu 324.754 | 4955.76 | ppb | 25.3837 | 0.5 | 347783 | 99.11523 |
| Fe 271.441 | 4778.00 | ppb | 13.2630 | 0.3 | 6831.55 | 95.56003 |
| K 766.491 | 9891.13 | ppb | 18.3619 | 0.2 | 423449 | 98.91125 |
| Mg 279.078 | 4765.89 | ppb | 23.3119 | 0.5 | 11505.4 | 95.31781 |
| Mn 257.610 | 4865.42 | ppb | 16.7660 | 0.3 | 1006217 | 97.30833 |
| Mo 202.032 | 478.515 | ppb | 3.9155 | 0.8 | 2962.56 | 95.70303 |
| Na 330.237 | 7544.76 | ppb | 65.8568 | 0.9 | 321.236 | 100.59682 |
| Ni 231.604 | 2425.96 | ppb | 13.0238 | 0.5 | 6714.84 | 97.03850 |
| Pb 220.353 | 482.603 | ppb | 0.8955 | 0.2 | 691.796 | 96.52068 |
| Sb 206.834 | 903.650 | ppb | 5.8240 | 0.6 | 1237.30 | 90.36503 |
| Se 196.026 | 4820.90 | ppb | 17.5618 | 0.4 | 1859.83 | 96.41794 |
| Sn 189.925 | 4787.43 | ppb | 43.1333 | 0.9 | 3142.29 | 95.74861 |
| Sr 216.596 | 2397.72 | ppb | 9.1492 | 0.4 | 26140.8 | 95.90896 |
| Ti 334.941 | 468.228 | ppb | 1.0379 | 0.2 | 129871 | 93.64556 |
| Tl 190.794 | 4806.14 | ppb | 22.1736 | 0.5 | 4700.80 | 96.12285 |
| V 292.401 | 4757.12 | ppb | 9.0663 | 0.2 | 123013 | 95.14249 |
| Zn 206.200 | 2396.50 | ppb | 11.2874 | 0.5 | 2150.57 | 95.86013 |

**Cont Calib Blank (CCB)** **10/16/2014, 10:52:16 AM** **Rack 4, Tube 26**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2113u | 0.1803 | 0.0987 |
| Al 308.215 | 4.5297 | 3.5411 | 3.2863 |
| As 188.980 | 8.4158 | 4.5941 | 5.7455 |
| B 249.678 | 7.9614 | 7.3317 | 6.2508 |
| Ba 389.178 | 0.5965 | 0.5775 | 0.5063 |
| Be 313.042 | 0.0425 | 0.0471 | 0.0497 |
| Ca 370.602 | -0.1630u | 9.914 | 2.177 |
| Cd 226.502 | 0.2056 | 0.0425 | -0.1490u |
| Co 228.615 | -0.3043u | 0.1376 | 0.2142 |
| Cr 267.716 | 0.5911 | 0.5587 | 0.5255 |
| Cu 324.754 | 0.8569 | 0.8162 | 0.6178 |
| Fe 271.441 | 5.7526 | 0.6803 | -3.7415u |
| K 766.491 | 0.9026 | 0.5017 | 0.1112 |
| Mg 279.078 | -1.0068u | -2.1120u | -1.1508u |
| Mn 257.610 | 0.8535 | 0.8008 | 0.7740 |
| Mo 202.032 | 1.1058 | 0.5598 | 0.5106 |
| Na 330.237 | -61.2055u | -30.9012u | 21.4692 |
| Ni 231.604 | 0.8595 | 0.8970 | 1.3080 |
| Pb 220.353 | 2.8762 | -1.7495u | -0.6810u |
| Sb 206.834 | 5.4206 | 4.0071 | 3.6370 |
| Se 196.026 | 9.4102 | 8.6009 | 11.9044 |
| Sn 189.925 | 2.6287 | 2.8032 | 3.3908 |
| Sr 216.596 | 0.2703 | 0.7148 | 0.4414 |
| Ti 334.941 | 0.1572 | 0.0733 | 0.1117 |
| Tl 190.794 | 3.1187 | 2.3967 | 4.5982 |
| V 292.401 | 0.7683 | 0.6844 | 0.7787 |
| Zn 206.200 | 1.4224 | 1.5894 | -0.6386u |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.0226 | ppb | 0.2066 | 915.1 | -8.7274 | 0.02258 |
| Al 308.215 | 3.7857 | ppb | 0.6568 | 17.3 | 419.532 | 3.78570 |
| As 188.980 | 6.2518 | ppb | 1.9605 | 31.4 | 0.9419 | 6.25179 |
| B 249.678 | 7.1813 | ppb | 0.8652 | 12.0 | 144.113 | 7.18130 |
| Ba 389.178 | 0.5601 | ppb | 0.0476 | 8.5 | -39.4174 | 0.56011 |
| Be 313.042 | 0.0464 | ppb | 0.0037 | 7.9 | -241.492 | 0.04644 |
| Ca 370.602 | 3.976 | ppb | 5.274 | 132.6 | 20.35 | 3.97622 |
| Cd 226.502 | 0.0331 | ppb | 0.1775 | 536.7 | 14.4519 | 0.03307 |
| Co 228.615 | 0.0158 | ppb | 0.2799 | 1769.7 | 3.3002 | 0.01582 |
| Cr 267.716 | 0.5584 | ppb | 0.0328 | 5.9 | 58.8375 | 0.55844 |
| Cu 324.754 | 0.7636 | ppb | 0.1279 | 16.7 | 303.470 | 0.76364 |
| Fe 271.441 | 0.8971 | ppb | 4.7508 | 529.6 | 8.0968 | 0.89711 |
| K 766.491 | 0.5052 | ppb | 0.3957 | 78.3 | 346.693 | 0.50518 |
| Mg 279.078 | -1.4232 | ppb | 0.6009 | 42.2 | 15.4579 | -1.42319 |
| Mn 257.610 | 0.8094 | ppb | 0.0404 | 5.0 | 208.089 | 0.80942 |
| Mo 202.032 | 0.7254 | ppb | 0.3303 | 45.5 | 10.7637 | 0.72540 |
| Na 330.237 | -23.5458 | ppb | 41.8253 | 177.6 | 20.9059 | -23.54583 |
| Ni 231.604 | 1.0215 | ppb | 0.2489 | 24.4 | -1.9468 | 1.02149 |
| Pb 220.353 | 0.1486 | ppb | 2.4219 | 1630.2 | 0.6470 | 0.14856 |
| Sb 206.834 | 4.3549 | ppb | 0.9413 | 21.6 | 6.8595 | 4.35490 |
| Se 196.026 | 9.9718 | ppb | 1.7219 | 17.3 | 6.5795 | 9.97182 |
| Sn 189.925 | 2.9409 | ppb | 0.3993 | 13.6 | -3.4392 | 2.94091 |
| Sr 216.596 | 0.4755 | ppb | 0.2242 | 47.2 | 7.5458 | 0.47550 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ti 334.941 | 0.1141 | ppb | 0.0420 | 36.8 | -30.2161 | 0.11407 |
| Tl 190.794 | 3.3712 | ppb | 1.1223 | 33.3 | -2.6673 | 3.37121 |
| V 292.401 | 0.7438 | ppb | 0.0517 | 6.9 | 12.0480 | 0.74379 |
| Zn 206.200 | 0.7911 | ppb | 1.2409 | 156.9 | 1.9186 | 0.79105 |

**680-106200-b-45-a (Samp)** **10/16/2014, 10:56:35 AM** **Rack 4, Tube 27**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.7879u | -0.2278 | -0.6402u |
| Al 308.215 | 11950.2 | 11879.5 | 11798.3 |
| As 188.980 | 37.6167 | 38.6914 | 44.5413 |
| B 249.678 | 9.9392 | 10.2648 | 9.7011 |
| Ba 389.178 | 1284.90 | 1273.11 | 1267.04 |
| Be 313.042 | 1.6360 | 1.6152 | 1.6016 |
| Ca 370.602 | 26517 | 26472 | 26369 |
| Cd 226.502 | 0.0739 | 0.0873 | 0.3043 |
| Co 228.615 | 36.6638 | 36.9085 | 37.6833 |
| Cr 267.716 | 39.5844 | 39.2872 | 39.3753 |
| Cu 324.754 | 41.8034 | 41.0100 | 40.8459 |
| Fe 271.441 | 58956.7 | 58452.1 | 58121.2 |
| K 766.491 | 1091.29 | 1079.54 | 1072.30 |
| Mg 279.078 | 8756.07 | 8709.91 | 8657.09 |
| Mn 257.610 | 12432.4 | 12316.0 | 12240.2 |
| Mo 202.032 | 9.0690 | 8.7504 | 8.8878 |
| Na 330.237 | -46.5025u | -34.1020u | 207.190u |
| Ni 231.604 | 26.1465 | 26.2338 | 26.7773 |
| Pb 220.353 | 113.552 | 117.050 | 114.041 |
| Sb 206.834 | 3.8299 | 2.3600 | -0.2195 |
| Se 196.026 | 0.2589 | -3.7401 | 5.8290 |
| Sn 189.925 | 5.2193 | 11.6997 | 7.5824 |
| Sr 216.596 | 55.4930 | 54.6568 | 53.7576 |
| Ti 334.941 | 195.467 | 193.620 | 192.525 |
| Tl 190.794 | 4.0335 | -1.0711u | 0.6955u |
| V 292.401 | 49.1727 | 49.2083 | 48.5015 |
| Zn 206.200 | 215.507 | 215.100 | 214.627 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.5520 | ppb | 0.2903 | 52.6 | -5.4444 |
| Al 308.215 | 11876.0 | ppb | 76.0246 | 0.6 | 79085.4 |
| As 188.980 | 40.2831 | ppb | 3.7266 | 9.3 | 18.9860 |
| B 249.678 | 9.9684 | ppb | 0.2830 | 2.8 | 62.4866 |
| Ba 389.178 | 1275.02 | ppb | 9.0826 | 0.7 | 25848.8 |
| Be 313.042 | 1.6176 | ppb | 0.0173 | 1.1 | 2321.76 |
| Ca 370.602 | 26452 | ppb | 75.76 | 0.3 | 60912 |
| Cd 226.502 | 0.1552 | ppb | 0.1294 | 83.4 | 229.866 |
| Co 228.615 | 37.0852 | ppb | 0.5322 | 1.4 | 396.742 |
| Cr 267.716 | 39.4156 | ppb | 0.1526 | 0.4 | 2068.45 |
| Cu 324.754 | 41.2198 | ppb | 0.5120 | 1.2 | 3164.94 |
| Fe 271.441 | 58510.0 | ppb | 420.749 | 0.7 | 82408.5 |
| K 766.491 | 1081.05 | ppb | 9.5850 | 0.9 | 46570.3 |
| Mg 279.078 | 8707.69 | ppb | 49.5290 | 0.6 | 20940.6 |
| Mn 257.610 | 12329.5 | ppb | 96.8323 | 0.8 | 2549910 |
| Mo 202.032 | 8.9024 | ppb | 0.1598 | 1.8 | 58.8017 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 42.1951 | ppb | 143.024 | 339.0 | 4.4285 |
| Ni 231.604 | 26.3859 | ppb | 0.3418 | 1.3 | 72.7392 |
| Pb 220.353 | 114.881 | ppb | 1.8941 | 1.6 | 162.765 |
| Sb 206.834 | 1.9901 | ppb | 2.0499 | 103.0 | 5.8097 |
| Se 196.026 | 0.7826 | ppb | 4.8060 | 614.1 | 5.8835 |
| Sn 189.925 | 8.1672 | ppb | 3.2795 | 40.2 | -0.0031 |
| Sr 216.596 | 54.6358 | ppb | 0.8679 | 1.6 | 671.540 |
| Ti 334.941 | 193.871 | ppb | 1.4870 | 0.8 | 53755.4 |
| Tl 190.794 | 1.2193 | ppb | 2.5923 | 212.6 | -6.0410 |
| V 292.401 | 48.9608 | ppb | 0.3982 | 0.8 | 1282.78 |
| Zn 206.200 | 215.078 | ppb | 0.4406 | 0.2 | 192.885 |

**680-106200-a-59-a (Samp)** **10/16/2014, 11:00:54 AM** **Rack 4, Tube 28**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.6168u | -0.4736u | -0.2671u |
| Al 308.215 | 16156.3 | 15761.5 | 15394.0 |
| As 188.980 | 51.1813 | 56.6793 | 49.5539 |
| B 249.678 | 4.6613u | 4.7664u | 4.9697u |
| Ba 389.178 | 290.814 | 284.430 | 278.372 |
| Be 313.042 | 2.0315 | 1.9816 | 1.9277 |
| Ca 370.602 | 6175 | 6042 | 5914 |
| Cd 226.502 | -0.4565 | -0.5100 | -0.7958 |
| Co 228.615 | 29.0673 | 28.7378 | 27.3291 |
| Cr 267.716 | 62.2169 | 60.7912 | 59.4095 |
| Cu 324.754 | 14.8966 | 15.2653 | 15.0762 |
| Fe 271.441 | 85865.7 | 83744.1 | 81794.0 |
| K 766.491 | 890.033 | 871.799 | 852.564 |
| Mg 279.078 | 1596.09 | 1556.99 | 1522.91 |
| Mn 257.610 | 4707.08 | 4599.31 | 4500.37 |
| Mo 202.032 | 2.8771 | 3.0950 | 2.4269 |
| Na 330.237 | 86.0311u | 30.1890u | 46.6253u |
| Ni 231.604 | 13.8414 | 11.6343 | 13.8624 |
| Pb 220.353 | 67.8431 | 67.2327 | 66.8952 |
| Sb 206.834 | 0.7364 | -1.3289 | 1.0862 |
| Se 196.026 | 9.4497 | 4.2678 | 8.2255 |
| Sn 189.925 | 5.5287 | 5.3434 | 5.4787 |
| Sr 216.596 | 27.2626 | 26.6008 | 24.6664 |
| Ti 334.941 | 123.329 | 120.464 | 117.756 |
| Tl 190.794 | -0.1505u | -2.6622u | 0.3398u |
| V 292.401 | 100.543 | 98.2825 | 95.9979 |
| Zn 206.200 | 110.644 | 105.495 | 103.411 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.4525 | ppb | 0.1758 | 38.8 | -37.3868 |
| Al 308.215 | 15770.6 | ppb | 381.218 | 2.4 | 104904 |
| As 188.980 | 52.4715 | ppb | 3.7338 | 7.1 | 25.4247 |
| B 249.678 | 4.7991 | ppb | 0.1568 | 3.3 | -69.1173 |
| Ba 389.178 | 284.539 | ppb | 6.2219 | 2.2 | 5764.35 |
| Be 313.042 | 1.9802 | ppb | 0.0519 | 2.6 | 2910.73 |
| Ca 370.602 | 6043 | ppb | 130.5 | 2.2 | 13297 |
| Cd 226.502 | -0.5874 | ppb | 0.1824 | 31.1 | 292.948 |
| Co 228.615 | 28.3781 | ppb | 0.9233 | 3.3 | 306.371 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 60.8058 | ppb | 1.4038 | 2.3 | 3105.60 |
| Cu 324.754 | 15.0794 | ppb | 0.1844 | 1.2 | 1341.16 |
| Fe 271.441 | 83801.3 | ppb | 2036.47 | 2.4 | 118024 |
| K 766.491 | 871.465 | ppb | 18.7366 | 2.2 | 37604.8 |
| Mg 279.078 | 1558.66 | ppb | 36.6209 | 2.3 | 3714.71 |
| Mn 257.610 | 4602.26 | ppb | 103.383 | 2.2 | 952001 |
| Mo 202.032 | 2.7997 | ppb | 0.3407 | 12.2 | 19.9013 |
| Na 330.237 | 54.2818 | ppb | 28.6976 | 52.9 | 1.9018 |
| Ni 231.604 | 13.1127 | ppb | 1.2804 | 9.8 | 37.9344 |
| Pb 220.353 | 67.3237 | ppb | 0.4805 | 0.7 | 91.9793 |
| Sb 206.834 | 0.1645 | ppb | 1.3052 | 793.2 | 4.4867 |
| Se 196.026 | 7.3143 | ppb | 2.7084 | 37.0 | 7.0892 |
| Sn 189.925 | 5.4503 | ppb | 0.0958 | 1.8 | -1.7895 |
| Sr 216.596 | 26.1766 | ppb | 1.3491 | 5.2 | 380.969 |
| Ti 334.941 | 120.516 | ppb | 2.7870 | 2.3 | 33392.0 |
| Tl 190.794 | -0.8243 | ppb | 1.6104 | 195.4 | -14.5872 |
| V 292.401 | 98.2743 | ppb | 2.2724 | 2.3 | 2568.83 |
| Zn 206.200 | 106.517 | ppb | 3.7227 | 3.5 | 93.9173 |

**mb 680-353770/1-a (Samp)** **10/16/2014, 11:05:14 AM** **Rack 4, Tube 29**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0808u | -0.0486u | -0.1796u |
| Al 308.215 | 5.0084 | 6.3421 | 6.8416 |
| As 188.980 | 6.1714 | -1.2142u | 3.0811 |
| B 249.678 | 1.2302 | 1.3072 | 0.6787 |
| Ba 389.178 | 0.1675 | 0.5451 | 0.4514 |
| Be 313.042 | 0.0040 | -0.0004u | -0.0000 |
| Ca 370.602 | 15.98 | 14.22 | 12.75 |
| Cd 226.502 | 0.0001 | 0.0989 | 0.0968 |
| Co 228.615 | -0.2410u | 0.0603 | 0.8956 |
| Cr 267.716 | 0.4802 | 0.5711 | 0.4488 |
| Cu 324.754 | 0.2825 | 0.3139 | 0.3735 |
| Fe 271.441 | 18.6186 | 19.3539 | 16.8268 |
| K 766.491 | 6.7698 | 6.2415 | 6.2015 |
| Mg 279.078 | 1.6477 | 4.2132 | 1.2619 |
| Mn 257.610 | 0.5350 | 0.6392 | 0.5516 |
| Mo 202.032 | 0.3257 | -0.2836u | -0.1202u |
| Na 330.237 | -176.243u | 54.0470 | -47.0827u |
| Ni 231.604 | 1.4488 | 0.9725 | 1.0146 |
| Pb 220.353 | 1.2548 | 0.1517 | 3.1766 |
| Sb 206.834 | 0.7838 | 1.3078 | -0.7424u |
| Se 196.026 | -3.7439u | -0.6780u | 3.0173 |
| Sn 189.925 | 10.3808 | 12.0719 | 12.1607 |
| Sr 216.596 | -0.4555u | 0.3233 | 0.1240 |
| Ti 334.941 | 0.2233 | 0.2385 | 0.1932 |
| Tl 190.794 | 2.0923 | -2.2052u | 1.6077 |
| V 292.401 | -0.1590u | 0.0137 | 0.0185 |
| Zn 206.200 | 1.2261 | 2.8647 | 1.9098 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1030 | ppb | 0.0682 | 66.2 | -18.4250 |
| Al 308.215 | 6.0640 | ppb | 0.9477 | 15.6 | 434.504 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 2.6794 | ppb | 3.7092 | 138.4 | -0.9745 |
| B 249.678 | 1.0720 | ppb | 0.3428 | 32.0 | 51.6486 |
| Ba 389.178 | 0.3880 | ppb | 0.1966 | 50.7 | -42.9017 |
| Be 313.042 | 0.0012 | ppb | 0.0024 | 202.4 | -315.090 |
| Ca 370.602 | 14.32 | ppb | 1.619 | 11.3 | 44.12 |
| Cd 226.502 | 0.0653 | ppb | 0.0565 | 86.5 | 15.7181 |
| Co 228.615 | 0.2383 | ppb | 0.5888 | 247.1 | 5.6365 |
| Cr 267.716 | 0.5000 | ppb | 0.0636 | 12.7 | 55.9548 |
| Cu 324.754 | 0.3233 | ppb | 0.0462 | 14.3 | 272.571 |
| Fe 271.441 | 18.2664 | ppb | 1.2999 | 7.1 | 32.5806 |
| K 766.491 | 6.4043 | ppb | 0.3172 | 5.0 | 599.045 |
| Mg 279.078 | 2.3743 | ppb | 1.6042 | 67.6 | 24.6876 |
| Mn 257.610 | 0.5753 | ppb | 0.0560 | 9.7 | 159.735 |
| Mo 202.032 | -0.0260 | ppb | 0.3154 | 1210.8 | 6.1137 |
| Na 330.237 | -56.4261 | ppb | 115.429 | 204.6 | 19.2906 |
| Ni 231.604 | 1.1453 | ppb | 0.2637 | 23.0 | -1.6031 |
| Pb 220.353 | 1.5277 | ppb | 1.5308 | 100.2 | 2.6134 |
| Sb 206.834 | 0.4498 | ppb | 1.0651 | 236.8 | 1.7288 |
| Se 196.026 | -0.4682 | ppb | 3.3855 | 723.1 | 2.5601 |
| Sn 189.925 | 11.5378 | ppb | 1.0030 | 8.7 | 2.2131 |
| Sr 216.596 | -0.0027 | ppb | 0.4046 | 14768.9 | 2.3622 |
| Ti 334.941 | 0.2183 | ppb | 0.0231 | 10.6 | -1.2833 |
| Tl 190.794 | 0.4983 | ppb | 2.3538 | 472.4 | -5.4758 |
| V 292.401 | -0.0423 | ppb | 0.1011 | 239.1 | -8.1802 |
| Zn 206.200 | 2.0002 | ppb | 0.8230 | 41.1 | 3.0090 |

**lcs 680-353770/2-a (Samp)** **10/16/2014, 11:09:33 AM** **Rack 4, Tube 30**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 47.5956 | 47.2594 | 47.3353 |
| Al 308.215 | 4740.57 | 4727.18 | 4742.05 |
| As 188.980 | 104.411 | 105.223 | 107.461 |
| B 249.678 | 183.648 | 183.395 | 184.576 |
| Ba 389.178 | 94.7787 | 95.2197 | 94.3465 |
| Be 313.042 | 49.5845 | 49.3566 | 49.5740 |
| Ca 370.602 | 4593 | 4556 | 4567 |
| Cd 226.502 | 48.8002 | 48.6657 | 48.8965 |
| Co 228.615 | 48.5307 | 48.4796 | 48.8018 |
| Cr 267.716 | 97.5114 | 97.0967 | 97.1313 |
| Cu 324.754 | 98.5262 | 99.1371 | 99.6491 |
| Fe 271.441 | 4807.58 | 4771.19 | 4811.32 |
| K 766.491 | 4971.60 | 4947.47 | 4974.42 |
| Mg 279.078 | 4711.82 | 4702.84 | 4704.69 |
| Mn 257.610 | 503.344 | 500.164 | 501.880 |
| Mo 202.032 | 95.1502 | 95.1341 | 94.8578 |
| Na 330.237 | 4900.71 | 4636.20 | 4592.69 |
| Ni 231.604 | 97.6479 | 97.0819 | 96.0070 |
| Pb 220.353 | 480.894 | 476.676 | 480.229 |
| Sb 206.834 | 45.9577 | 40.7812 | 46.2130 |
| Se 196.026 | 102.383 | 103.281 | 101.223 |
| Sn 189.925 | 195.707 | 195.489 | 198.281 |
| Sr 216.596 | 95.6565 | 94.3334 | 94.7348 |
| Ti 334.941 | 95.8773 | 95.5156 | 95.9907 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 42.4806 | 35.8026 | 37.2309 |
| V 292.401 | 96.2598 | 96.1660 | 95.7717 |
| Zn 206.200 | 102.019 | 96.1432 | 97.1893 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 47.3968 | ppb | 0.1763 | 0.4 | 3654.04 |
| Al 308.215 | 4736.60 | ppb | 8.1921 | 0.2 | 31760.5 |
| As 188.980 | 105.698 | ppb | 1.5797 | 1.5 | 54.2858 |
| B 249.678 | 183.873 | ppb | 0.6216 | 0.3 | 2806.24 |
| Ba 389.178 | 94.7816 | ppb | 0.4366 | 0.5 | 1880.50 |
| Be 313.042 | 49.5050 | ppb | 0.1286 | 0.3 | 80268.9 |
| Ca 370.602 | 4572 | ppb | 18.66 | 0.4 | 10579 |
| Cd 226.502 | 48.7875 | ppb | 0.1159 | 0.2 | 1856.37 |
| Co 228.615 | 48.6040 | ppb | 0.1731 | 0.4 | 509.309 |
| Cr 267.716 | 97.2464 | ppb | 0.2301 | 0.2 | 4859.98 |
| Cu 324.754 | 99.1041 | ppb | 0.5622 | 0.6 | 7205.04 |
| Fe 271.441 | 4796.69 | ppb | 22.1688 | 0.5 | 6768.04 |
| K 766.491 | 4964.49 | ppb | 14.8140 | 0.3 | 212697 |
| Mg 279.078 | 4706.45 | ppb | 4.7400 | 0.1 | 11442.3 |
| Mn 257.610 | 501.796 | ppb | 1.5916 | 0.3 | 103856 |
| Mo 202.032 | 95.0474 | ppb | 0.1643 | 0.2 | 594.160 |
| Na 330.237 | 4709.87 | ppb | 166.697 | 3.5 | 243.431 |
| Ni 231.604 | 96.9122 | ppb | 0.8335 | 0.9 | 263.950 |
| Pb 220.353 | 479.266 | ppb | 2.2678 | 0.5 | 683.481 |
| Sb 206.834 | 44.3173 | ppb | 3.0650 | 6.9 | 59.2655 |
| Se 196.026 | 102.296 | ppb | 1.0316 | 1.0 | 42.2594 |
| Sn 189.925 | 196.492 | ppb | 1.5527 | 0.8 | 123.819 |
| Sr 216.596 | 94.9083 | ppb | 0.6784 | 0.7 | 1042.75 |
| Ti 334.941 | 95.7945 | ppb | 0.2481 | 0.3 | 26527.6 |
| Tl 190.794 | 38.5047 | ppb | 3.5165 | 9.1 | 31.3091 |
| V 292.401 | 96.0658 | ppb | 0.2591 | 0.3 | 2466.55 |
| Zn 206.200 | 98.4504 | ppb | 3.1342 | 3.2 | 89.5867 |

**680-106222-c-1-a (Samp)** **10/16/2014, 11:13:52 AM** **Rack 4, Tube 31**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 1.2239 | 1.5826 | 0.9449 |
| Al 308.215 | 43061.1 | 43011.5 | 43108.4 |
| As 188.980 | 31.6531 | 19.6960 | 28.4742 |
| B 249.678 | 18.9681 | 19.1646 | 19.3201 |
| Ba 389.178 | 426.357 | 428.326 | 427.953 |
| Be 313.042 | 1.7311 | 1.7259 | 1.7336 |
| Ca 370.602 | 58514 | 58889 | 58836 |
| Cd 226.502 | 5.5951 | 5.1336 | 5.5542 |
| Co 228.615 | 4.8941 | 5.4936 | 4.3501 |
| Cr 267.716 | 43.3648 | 43.4574 | 43.7955 |
| Cu 324.754 | 82.9743 | 81.4307 | 82.0426 |
| Fe 271.441 | 4825.45 | 4825.55 | 4813.53 |
| K 766.491 | 2503.10 | 2494.49 | 2489.67 |
| Mg 279.078 | 3958.93 | 3968.86 | 3974.15 |
| Mn 257.610 | 1202.11 | 1204.41 | 1204.26 |
| Mo 202.032 | 5.4661 | 5.6241 | 6.1870 |
| Na 330.237 | 7821.74 | 7576.00 | 7721.47 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 39.9783 | 38.9910 | 39.8127 |
| Pb 220.353 | 25.9385 | 24.5531 | 27.4213 |
| Sb 206.834 | 4.0275 | 2.4893 | 3.9233 |
| Se 196.026 | 20.3768 | 17.0494 | 18.4015 |
| Sn 189.925 | 17.1837 | 19.3082 | 16.5454 |
| Sr 216.596 | 213.271 | 213.226 | 214.953 |
| Ti 334.941 | 271.625 | 271.959 | 273.064 |
| Tl 190.794 | -0.3662u | 1.9101 | 0.7669 |
| V 292.401 | 117.552 | 118.131 | 117.952 |
| Zn 206.200 | 616.689 | 614.896 | 623.721 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 1.2504 | ppb | 0.3197 | 25.6 | 84.7702 |
| Al 308.215 | 43060.3 | ppb | 48.4426 | 0.1 | 285358 |
| As 188.980 | 26.6078 | ppb | 6.1932 | 23.3 | 12.1983 |
| B 249.678 | 19.1509 | ppb | 0.1764 | 0.9 | 314.910 |
| Ba 389.178 | 427.545 | ppb | 1.0459 | 0.2 | 8628.11 |
| Be 313.042 | 1.7302 | ppb | 0.0039 | 0.2 | 2525.79 |
| Ca 370.602 | 58746 | ppb | 203.1 | 0.3 | 135891 |
| Cd 226.502 | 5.4276 | ppb | 0.2554 | 4.7 | 233.692 |
| Co 228.615 | 4.9126 | ppb | 0.5719 | 11.6 | 59.8751 |
| Cr 267.716 | 43.5392 | ppb | 0.2267 | 0.5 | 2199.07 |
| Cu 324.754 | 82.1492 | ppb | 0.7773 | 0.9 | 6012.11 |
| Fe 271.441 | 4821.51 | ppb | 6.9115 | 0.1 | 6798.30 |
| K 766.491 | 2495.75 | ppb | 6.8045 | 0.3 | 107089 |
| Mg 279.078 | 3967.31 | ppb | 7.7269 | 0.2 | 9620.57 |
| Mn 257.610 | 1203.59 | ppb | 1.2853 | 0.1 | 248977 |
| Mo 202.032 | 5.7591 | ppb | 0.3790 | 6.6 | 41.5902 |
| Na 330.237 | 7706.40 | ppb | 123.561 | 1.6 | 373.338 |
| Ni 231.604 | 39.5940 | ppb | 0.5287 | 1.3 | 105.281 |
| Pb 220.353 | 25.9710 | ppb | 1.4344 | 5.5 | 36.7548 |
| Sb 206.834 | 3.4800 | ppb | 0.8596 | 24.7 | 6.2353 |
| Se 196.026 | 18.6092 | ppb | 1.6734 | 9.0 | 10.1752 |
| Sn 189.925 | 17.6791 | ppb | 1.4465 | 8.2 | 6.2530 |
| Sr 216.596 | 213.817 | ppb | 0.9840 | 0.5 | 2363.87 |
| Ti 334.941 | 272.216 | ppb | 0.7532 | 0.3 | 75481.8 |
| Tl 190.794 | 0.7703 | ppb | 1.1382 | 147.8 | -5.0684 |
| V 292.401 | 117.878 | ppb | 0.2965 | 0.3 | 3050.81 |
| Zn 206.200 | 618.436 | ppb | 4.6648 | 0.8 | 558.841 |

**680-106222-c-1-aSD (Samp)** **10/16/2014, 11:18:12 AM** **Rack 4, Tube 32**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.2814 | 0.1368 | 0.1473 |
| Al 308.215 | 8245.66 | 8284.41 | 8400.87 |
| As 188.980 | 8.3423 | 9.1298 | 14.3919 |
| B 249.678 | 4.2467 | 4.1905 | 4.7079 |
| Ba 389.178 | 84.9659 | 86.0393 | 85.7766 |
| Be 313.042 | 0.3315 | 0.3233 | 0.3301 |
| Ca 370.602 | 11551 | 11642 | 11699 |
| Cd 226.502 | 1.1709 | 1.0398 | 1.2142 |
| Co 228.615 | 0.8011 | 0.6790 | 1.1074 |
| Cr 267.716 | 8.6566 | 8.6366 | 8.8434 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 16.5978 | 16.0757 | 16.7179 |
| Fe 271.441 | 955.689 | 963.960 | 969.837 |
| K 766.491 | 468.362 | 471.999 | 475.985 |
| Mg 279.078 | 792.763 | 789.528 | 801.318 |
| Mn 257.610 | 239.088 | 240.834 | 242.904 |
| Mo 202.032 | 1.4111 | 0.7139 | 1.1874 |
| Na 330.237 | 1499.63 | 1396.88 | 1292.49 |
| Ni 231.604 | 8.6015 | 8.8280 | 8.1759 |
| Pb 220.353 | 5.1215 | 5.6304 | 4.2890 |
| Sb 206.834 | -0.7758u | -0.2929u | 2.3632 |
| Se 196.026 | 9.7988 | -10.0868u | 5.6346 |
| Sn 189.925 | 5.0196 | 3.8311 | 4.7550 |
| Sr 216.596 | 41.4155 | 41.7284 | 42.4501 |
| Ti 334.941 | 53.6168 | 53.9442 | 54.4953 |
| Tl 190.794 | 0.2880 | -1.5861u | 1.5406 |
| V 292.401 | 22.8252 | 23.3400 | 23.5800 |
| Zn 206.200 | 124.749 | 124.501 | 126.188 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.1885 | ppb | 0.0806 | 42.8 | 3.8553 |
| Al 308.215 | 8310.31 | ppb | 80.7810 | 1.0 | 55390.3 |
| As 188.980 | 10.6213 | ppb | 3.2890 | 31.0 | 3.3509 |
| B 249.678 | 4.3817 | ppb | 0.2839 | 6.5 | 99.7184 |
| Ba 389.178 | 85.5939 | ppb | 0.5595 | 0.7 | 1686.71 |
| Be 313.042 | 0.3283 | ppb | 0.0044 | 1.3 | 222.493 |
| Ca 370.602 | 11631 | ppb | 74.79 | 0.6 | 26912 |
| Cd 226.502 | 1.1416 | ppb | 0.0908 | 8.0 | 59.3766 |
| Co 228.615 | 0.8625 | ppb | 0.2207 | 25.6 | 13.2300 |
| Cr 267.716 | 8.7122 | ppb | 0.1141 | 1.3 | 464.924 |
| Cu 324.754 | 16.4638 | ppb | 0.3414 | 2.1 | 1404.72 |
| Fe 271.441 | 963.162 | ppb | 7.1075 | 0.7 | 1363.50 |
| K 766.491 | 472.115 | ppb | 3.8130 | 0.8 | 20521.3 |
| Mg 279.078 | 794.536 | ppb | 6.0920 | 0.8 | 1941.99 |
| Mn 257.610 | 240.942 | ppb | 1.9104 | 0.8 | 49874.2 |
| Mo 202.032 | 1.1041 | ppb | 0.3560 | 32.2 | 13.0441 |
| Na 330.237 | 1396.33 | ppb | 103.568 | 7.4 | 85.3686 |
| Ni 231.604 | 8.5351 | ppb | 0.3311 | 3.9 | 18.9416 |
| Pb 220.353 | 5.0136 | ppb | 0.6771 | 13.5 | 7.4465 |
| Sb 206.834 | 0.4315 | ppb | 1.6902 | 391.7 | 1.7988 |
| Se 196.026 | 1.7822 | ppb | 10.4876 | 588.5 | 3.4800 |
| Sn 189.925 | 4.5352 | ppb | 0.6239 | 13.8 | -2.3906 |
| Sr 216.596 | 41.8647 | ppb | 0.5306 | 1.3 | 464.720 |
| Ti 334.941 | 54.0188 | ppb | 0.4440 | 0.8 | 14929.1 |
| Tl 190.794 | 0.0809 | ppb | 1.5736 | 1945.8 | -5.8549 |
| V 292.401 | 23.2484 | ppb | 0.3856 | 1.7 | 596.009 |
| Zn 206.200 | 125.146 | ppb | 0.9111 | 0.7 | 114.050 |

**680-106222-c-1-aPDS (Samp)** **10/16/2014, 11:22:31 AM** **Rack 4, Tube 33**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 94.3505 | 94.8417 | 92.4733 |
| Al 308.215 | 43892.8 | 43858.2 | 43827.1 |
| As 188.980 | 138.285 | 135.867 | 131.663 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 215.236 | 214.721 | 210.407 |
| Ba 389.178 | 508.095 | 506.089 | 504.729 |
| Be 313.042 | 102.982 | 101.700 | 99.2007 |
| Ca 370.602 | 68426 | 68534 | 68207 |
| Cd 226.502 | 104.592 | 103.550 | 101.218 |
| Co 228.615 | 105.193 | 103.708 | 102.620 |
| Cr 267.716 | 142.158 | 141.129 | 138.267 |
| Cu 324.754 | 188.147 | 186.488 | 184.751 |
| Fe 271.441 | 14706.3 | 14599.7 | 14314.6 |
| K 766.491 | 13676.0 | 13615.1 | 13320.5 |
| Mg 279.078 | 13976.5 | 13839.3 | 13610.4 |
| Mn 257.610 | 2242.87 | 2233.61 | 2205.29 |
| Mo 202.032 | 105.347 | 104.766 | 102.268 |
| Na 330.237 | 17032.5 | 17174.3 | 16656.5 |
| Ni 231.604 | 139.690 | 138.942 | 135.948 |
| Pb 220.353 | 122.932 | 121.965 | 119.959 |
| Sb 206.834 | 102.666 | 99.9714 | 95.6953 |
| Se 196.026 | 115.364 | 109.034 | 115.070 |
| Sn 189.925 | 117.493 | 117.685 | 110.704 |
| Sr 216.596 | 308.242 | 306.586 | 304.500 |
| Ti 334.941 | 366.142 | 365.265 | 362.851 |
| Tl 190.794 | 19.3631 | 21.7361 | 17.1507 |
| V 292.401 | 219.114 | 217.821 | 214.621 |
| Zn 206.200 | 706.937 | 707.924 | 704.993 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 93.8885 | ppb | 1.2500 | 1.3 | 7249.93 |
| Al 308.215 | 43859.4 | ppb | 32.8470 | 0.1 | 290677 |
| As 188.980 | 135.272 | ppb | 3.3511 | 2.5 | 70.4274 |
| B 249.678 | 213.455 | ppb | 2.6518 | 1.2 | 3233.77 |
| Ba 389.178 | 506.305 | ppb | 1.6931 | 0.3 | 10243.4 |
| Be 313.042 | 101.294 | ppb | 1.9228 | 1.9 | 164606 |
| Ca 370.602 | 68389 | ppb | 166.8 | 0.2 | 158141 |
| Cd 226.502 | 103.120 | ppb | 1.7277 | 1.7 | 3924.69 |
| Co 228.615 | 103.840 | ppb | 1.2912 | 1.2 | 1090.43 |
| Cr 267.716 | 140.518 | ppb | 2.0159 | 1.4 | 7018.63 |
| Cu 324.754 | 186.462 | ppb | 1.6981 | 0.9 | 13334.7 |
| Fe 271.441 | 14540.2 | ppb | 202.533 | 1.4 | 20496.4 |
| K 766.491 | 13537.2 | ppb | 190.120 | 1.4 | 579421 |
| Mg 279.078 | 13808.7 | ppb | 184.976 | 1.3 | 33511.2 |
| Mn 257.610 | 2227.26 | ppb | 19.5790 | 0.9 | 460762 |
| Mo 202.032 | 104.127 | ppb | 1.6355 | 1.6 | 649.810 |
| Na 330.237 | 16954.4 | ppb | 267.577 | 1.6 | 810.778 |
| Ni 231.604 | 138.193 | ppb | 1.9801 | 1.4 | 378.944 |
| Pb 220.353 | 121.619 | ppb | 1.5166 | 1.2 | 172.612 |
| Sb 206.834 | 99.4443 | ppb | 3.5152 | 3.5 | 132.566 |
| Se 196.026 | 113.156 | ppb | 3.5723 | 3.2 | 46.8476 |
| Sn 189.925 | 115.294 | ppb | 3.9764 | 3.4 | 70.4359 |
| Sr 216.596 | 306.442 | ppb | 1.8750 | 0.6 | 3385.99 |
| Ti 334.941 | 364.753 | ppb | 1.7044 | 0.5 | 101176 |
| Tl 190.794 | 19.4166 | ppb | 2.2932 | 11.8 | 12.5673 |
| V 292.401 | 217.185 | ppb | 2.3130 | 1.1 | 5609.80 |
| Zn 206.200 | 706.618 | ppb | 1.4914 | 0.2 | 637.773 |

**680-106222-c-1-b ms (Samp)** **10/16/2014, 11:26:51 AM** **Rack 4, Tube 34**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 50.3192 | 50.6361 | 50.4981 |
| Al 308.215 | 49068.9 | 49083.4 | 49183.9 |
| As 188.980 | 133.237 | 129.539 | 134.592 |
| B 249.678 | 191.303 | 192.537 | 192.465 |
| Ba 389.178 | 526.998 | 527.883 | 529.128 |
| Be 313.042 | 52.8007 | 52.7484 | 52.8259 |
| Ca 370.602 | 63567 | 63684 | 63236 |
| Cd 226.502 | 54.6898 | 54.6066 | 54.3972 |
| Co 228.615 | 56.0225 | 55.3715 | 54.6072 |
| Cr 267.716 | 142.425 | 142.764 | 142.392 |
| Cu 324.754 | 186.505 | 187.908 | 188.297 |
| Fe 271.441 | 10482.7 | 10476.0 | 10508.6 |
| K 766.491 | 8345.24 | 8343.78 | 8364.41 |
| Mg 279.078 | 8893.60 | 8903.93 | 8899.05 |
| Mn 257.610 | 1713.51 | 1713.39 | 1713.99 |
| Mo 202.032 | 99.6995 | 99.5403 | 99.3843 |
| Na 330.237 | 12589.4 | 12722.5 | 12584.8 |
| Ni 231.604 | 138.642 | 139.342 | 140.085 |
| Pb 220.353 | 505.408 | 509.353 | 508.977 |
| Sb 206.834 | 39.7478 | 37.3076 | 44.0703 |
| Se 196.026 | 107.502 | 106.436 | 108.535 |
| Sn 189.925 | 208.637 | 200.598 | 205.121 |
| Sr 216.596 | 311.339 | 310.302 | 309.377 |
| Ti 334.941 | 404.791 | 404.894 | 405.917 |
| Tl 190.794 | 42.9431 | 37.5147 | 31.6074 |
| V 292.401 | 214.080 | 214.767 | 213.768 |
| Zn 206.200 | 710.558 | 713.580 | 711.953 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 50.4845 | ppb | 0.1589 | 0.3 | 3891.24 |
| Al 308.215 | 49112.0 | ppb | 62.6225 | 0.1 | 325428 |
| As 188.980 | 132.456 | ppb | 2.6153 | 2.0 | 68.9837 |
| B 249.678 | 192.102 | ppb | 0.6925 | 0.4 | 2918.65 |
| Ba 389.178 | 528.003 | ppb | 1.0703 | 0.2 | 10675.2 |
| Be 313.042 | 52.7917 | ppb | 0.0396 | 0.1 | 85645.7 |
| Ca 370.602 | 63496 | ppb | 232.2 | 0.4 | 146873 |
| Cd 226.502 | 54.5646 | ppb | 0.1508 | 0.3 | 2092.98 |
| Co 228.615 | 55.3337 | ppb | 0.7084 | 1.3 | 585.758 |
| Cr 267.716 | 142.527 | ppb | 0.2060 | 0.1 | 7114.79 |
| Cu 324.754 | 187.570 | ppb | 0.9425 | 0.5 | 13410.6 |
| Fe 271.441 | 10489.1 | ppb | 17.2164 | 0.2 | 14786.2 |
| K 766.491 | 8351.14 | ppb | 11.5105 | 0.1 | 357572 |
| Mg 279.078 | 8898.86 | ppb | 5.1646 | 0.1 | 21590.4 |
| Mn 257.610 | 1713.63 | ppb | 0.3177 | 0.0 | 354501 |
| Mo 202.032 | 99.5414 | ppb | 0.1576 | 0.2 | 621.609 |
| Na 330.237 | 12632.2 | ppb | 78.2219 | 0.6 | 604.890 |
| Ni 231.604 | 139.356 | ppb | 0.7215 | 0.5 | 381.964 |
| Pb 220.353 | 507.913 | ppb | 2.1776 | 0.4 | 723.533 |
| Sb 206.834 | 40.3752 | ppb | 3.4247 | 8.5 | 54.6552 |
| Se 196.026 | 107.491 | ppb | 1.0494 | 1.0 | 44.5368 |
| Sn 189.925 | 204.785 | ppb | 4.0302 | 2.0 | 129.274 |
| Sr 216.596 | 310.339 | ppb | 0.9813 | 0.3 | 3422.61 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 405.201 | ppb | 0.6227 | 0.2 | 112391 |
| Tl 190.794 | 37.3551 | ppb | 5.6695 | 15.2 | 30.2343 |
| V 292.401 | 214.205 | ppb | 0.5106 | 0.2 | 5532.25 |
| Zn 206.200 | 712.030 | ppb | 1.5127 | 0.2 | 642.806 |

**680-106222-c-1-c msd (Samp)** **10/16/2014, 11:31:10 AM** **Rack 4, Tube 35**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 49.1308 | 49.2556 | 49.1683 |
| Al 308.215 | 45184.7 | 45152.2 | 45088.0 |
| As 188.980 | 131.059 | 130.982 | 128.573 |
| B 249.678 | 193.349 | 192.746 | 193.538 |
| Ba 389.178 | 489.171 | 488.369 | 489.634 |
| Be 313.042 | 51.6548 | 51.6966 | 51.6255 |
| Ca 370.602 | 57831 | 57974 | 57952 |
| Cd 226.502 | 52.9780 | 53.1782 | 53.1926 |
| Co 228.615 | 54.2949 | 54.2103 | 54.2903 |
| Cr 267.716 | 137.048 | 136.919 | 137.257 |
| Cu 324.754 | 177.078 | 178.812 | 176.589 |
| Fe 271.441 | 9505.37 | 9509.29 | 9514.81 |
| K 766.491 | 7986.33 | 7981.57 | 7968.69 |
| Mg 279.078 | 8472.04 | 8456.20 | 8455.80 |
| Mn 257.610 | 1597.06 | 1597.21 | 1598.64 |
| Mo 202.032 | 98.3855 | 97.3002 | 98.2378 |
| Na 330.237 | 12237.9 | 12294.2 | 12141.9 |
| Ni 231.604 | 133.605 | 134.352 | 133.758 |
| Pb 220.353 | 499.424 | 503.099 | 497.946 |
| Sb 206.834 | 40.3202 | 39.2080 | 42.3898 |
| Se 196.026 | 111.471 | 101.654 | 101.978 |
| Sn 189.925 | 203.966 | 201.375 | 198.956 |
| Sr 216.596 | 290.974 | 290.658 | 291.654 |
| Ti 334.941 | 377.863 | 378.237 | 378.392 |
| Tl 190.794 | 41.5499 | 34.0230 | 38.8355 |
| V 292.401 | 202.904 | 201.942 | 202.803 |
| Zn 206.200 | 660.070 | 658.921 | 656.546 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 49.1849 | ppb | 0.0640 | 0.1 | 3790.89 |
| Al 308.215 | 45141.6 | ppb | 49.1820 | 0.1 | 299152 |
| As 188.980 | 130.205 | ppb | 1.4140 | 1.1 | 67.7480 |
| B 249.678 | 193.211 | ppb | 0.4139 | 0.2 | 2937.49 |
| Ba 389.178 | 489.058 | ppb | 0.6399 | 0.1 | 9884.30 |
| Be 313.042 | 51.6590 | ppb | 0.0357 | 0.1 | 83799.5 |
| Ca 370.602 | 57919 | ppb | 76.61 | 0.1 | 133979 |
| Cd 226.502 | 53.1163 | ppb | 0.1199 | 0.2 | 2035.28 |
| Co 228.615 | 54.2652 | ppb | 0.0476 | 0.1 | 574.078 |
| Cr 267.716 | 137.075 | ppb | 0.1704 | 0.1 | 6843.34 |
| Cu 324.754 | 177.493 | ppb | 1.1681 | 0.7 | 12703.5 |
| Fe 271.441 | 9509.83 | ppb | 4.7455 | 0.0 | 13406.9 |
| K 766.491 | 7978.86 | ppb | 9.1227 | 0.1 | 341646 |
| Mg 279.078 | 8461.34 | ppb | 9.2634 | 0.1 | 20530.9 |
| Mn 257.610 | 1597.64 | ppb | 0.8738 | 0.1 | 330508 |
| Mo 202.032 | 97.9745 | ppb | 0.5886 | 0.6 | 611966 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 12224.7 | ppb | 77.0232 | 0.6 | 587.040 |
| Ni 231.604 | 133.905 | ppb | 0.3947 | 0.3 | 366.791 |
| Pb 220.353 | 500.156 | ppb | 2.6530 | 0.5 | 712.571 |
| Sb 206.834 | 40.6394 | ppb | 1.6147 | 4.0 | 54.9450 |
| Se 196.026 | 105.034 | ppb | 5.5764 | 5.3 | 43.5616 |
| Sn 189.925 | 201.433 | ppb | 2.5055 | 1.2 | 127.069 |
| Sr 216.596 | 291.096 | ppb | 0.5091 | 0.2 | 3209.57 |
| Ti 334.941 | 378.164 | ppb | 0.2721 | 0.1 | 104888 |
| Tl 190.794 | 38.1361 | ppb | 3.8119 | 10.0 | 31.0478 |
| V 292.401 | 202.550 | ppb | 0.5291 | 0.3 | 5229.93 |
| Zn 206.200 | 658.512 | ppb | 1.7973 | 0.3 | 594.574 |

**680-106225-c-4-b (Samp)** **10/16/2014, 11:35:29 AM** **Rack 4, Tube 36**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 3.4894 | 4.6742 | 4.2918 |
| Al 308.215 | 62960.0 | 62869.6 | 62963.9 |
| As 188.980 | 243.610 | 248.857 | 245.912 |
| B 249.678 | 68.9586u | 68.6138u | 69.5034u |
| Ba 389.178 | 1080.81 | 1083.78 | 1081.59 |
| Be 313.042 | 5.7309 | 5.7196 | 5.7292 |
| Ca 370.602 | 636523 | 636311 | 634412 |
| Cd 226.502 | 36.9148 | 37.1126 | 38.2376 |
| Co 228.615 | 82.8919 | 83.0072 | 83.9802 |
| Cr 267.716 | 999.692 | 1000.57 | 1000.60 |
| Cu 324.754 | 4819.61 | 4826.32 | 4847.32 |
| Fe 271.441 | 605622 | 608351 | 610142 |
| K 766.491 | 6331.90 | 6310.46 | 6323.65 |
| Mg 279.078 | 49192.8 | 49224.7 | 49202.9 |
| Mn 257.610 | 7003.09 | 7000.70 | 7000.51 |
| Mo 202.032 | 141.426 | 142.765 | 142.807 |
| Na 330.237 | 2171.39u | 2123.22u | 1782.32u |
| Ni 231.604 | 633.847 | 635.638 | 635.356 |
| Pb 220.353 | 2173.72 | 2183.50 | 2178.70 |
| Sb 206.834 | 32.1777 | 27.1409 | 26.3493 |
| Se 196.026 | 6.0645 | 11.5799 | 5.3644 |
| Sn 189.925 | 160.960 | 158.247 | 155.290 |
| Sr 216.596 | 702.767 | 703.477 | 705.566 |
| Ti 334.941 | 852.124 | 852.727 | 850.416 |
| Tl 190.794 | -22.3927u | -25.0404u | -17.9476u |
| V 292.401 | 180.548 | 180.375 | 180.113 |
| Zn 206.200 | 6667.44 | 6679.34 | 6677.17 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 4.1518 | ppb | 0.6047 | 14.6 | 223.907 |
| Al 308.215 | 62931.2 | ppb | 53.3967 | 0.1 | 417878 |
| As 188.980 | 246.127 | ppb | 2.6301 | 1.1 | 126.896 |
| B 249.678 | 69.0253 | ppb | 0.4485 | 0.6 | -205.718 |
| Ba 389.178 | 1082.06 | ppb | 1.5372 | 0.1 | 22264.0 |
| Be 313.042 | 5.7265 | ppb | 0.0061 | 0.1 | 9182.50 |
| Ca 370.602 | 635749 | ppb | 1162 | 0.2 | 1464134 |
| Cd 226.502 | 37.4217 | ppb | 0.7135 | 1.9 | 3603.23 |
| Co 228.615 | 83.2931 | ppb | 0.5978 | 0.7 | 923.661 |

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| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 1000.29 | ppb | 0.5153 | 0.1 | 49967.6 |
| Cu 324.754 | 4831.09 | ppb | 14.4543 | 0.3 | 339341 |
| Fe 271.441 | 608038 | ppb | 2276.39 | 0.4 | 856293 |
| K 766.491 | 6322.00 | ppb | 10.8138 | 0.2 | 270769 |
| Mg 279.078 | 49206.8 | ppb | 16.3003 | 0.0 | 119415 |
| Mn 257.610 | 7001.43 | ppb | 1.4400 | 0.0 | 1449992 |
| Mo 202.032 | 142.332 | ppb | 0.7854 | 0.6 | 860.765 |
| Na 330.237 | 2025.65 | ppb | 212.097 | 10.5 | -193.643 |
| Ni 231.604 | 634.947 | ppb | 0.9631 | 0.2 | 1800.73 |
| Pb 220.353 | 2178.64 | ppb | 4.8911 | 0.2 | 3070.75 |
| Sb 206.834 | 28.5560 | ppb | 3.1614 | 11.1 | 65.5544 |
| Se 196.026 | 7.6696 | ppb | 3.4045 | 44.4 | 11.6955 |
| Sn 189.925 | 158.166 | ppb | 2.8361 | 1.8 | 98.6176 |
| Sr 216.596 | 703.937 | ppb | 1.4549 | 0.2 | 8559.97 |
| Ti 334.941 | 851.756 | ppb | 1.1984 | 0.1 | 236439 |
| Tl 190.794 | -21.7936 | ppb | 3.5841 | 16.4 | -97.6171 |
| V 292.401 | 180.345 | ppb | 0.2191 | 0.1 | 4833.57 |
| Zn 206.200 | 6674.65 | ppb | 6.3345 | 0.1 | 5996.86 |

**Cont Calib Verif (CCV)** **10/16/2014, 11:39:48 AM** **Rack 4, Tube 37**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 480.876 | 478.030 | 475.809 |
| Al 308.215 | 4802.17 | 4777.16 | 4786.24 |
| As 188.980 | 455.304 | 459.480 | 463.505 |
| B 249.678 | 481.578 | 480.074 | 483.603 |
| Ba 389.178 | 4760.45 | 4735.20 | 4737.00 |
| Be 313.042 | 487.594 | 484.305 | 486.018 |
| Ca 370.602 | 4733 | 4707 | 4697 |
| Cd 226.502 | 484.585 | 482.258 | 482.203 |
| Co 228.615 | 487.479 | 483.714 | 485.004 |
| Cr 267.716 | 4828.92 | 4796.79 | 4798.00 |
| Cu 324.754 | 4911.68 | 4934.10 | 4924.81 |
| Fe 271.441 | 4877.20 | 4857.78 | 4847.33 |
| K 766.491 | 9935.57 | 9889.74 | 9917.07 |
| Mg 279.078 | 4812.67 | 4781.02 | 4787.09 |
| Mn 257.610 | 4887.47 | 4881.11 | 4887.17 |
| Mo 202.032 | 482.194 | 479.707 | 478.786 |
| Na 330.237 | 7688.07 | 7493.63 | 7545.38 |
| Ni 231.604 | 2446.24 | 2436.50 | 2431.33 |
| Pb 220.353 | 485.594 | 478.039 | 482.402 |
| Sb 206.834 | 901.910 | 902.621 | 904.672 |
| Se 196.026 | 4836.99 | 4824.25 | 4826.11 |
| Sn 189.925 | 4805.66 | 4809.52 | 4817.72 |
| Sr 216.596 | 2408.57 | 2398.03 | 2395.99 |
| Ti 334.941 | 471.973 | 468.432 | 469.794 |
| Tl 190.794 | 4857.93 | 4824.00 | 4839.27 |
| V 292.401 | 4793.73 | 4775.65 | 4773.65 |
| Zn 206.200 | 2427.84 | 2409.43 | 2400.68 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 478.238 | ppb | 2.5396 | 0.5 | 36934.8 | 95.64764 |
| Al 308.215 | 4788.52 | ppb | 12.6612 | 0.3 | 32582.4 | 95.77050 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| As 188.980 | 459.430 | ppb | 4.1009 | 0.9 | 243.968 | 91.88594 |
| B 249.678 | 481.752 | ppb | 1.7709 | 0.4 | 7322.02 | 96.35036 |
| Ba 389.178 | 4744.22 | ppb | 14.0864 | 0.3 | 96188.4 | 94.88441 |
| Be 313.042 | 485.972 | ppb | 1.6450 | 0.3 | 791005 | 97.19450 |
| Ca 370.602 | 4712 | ppb | 18.16 | 0.4 | 11161 | 94.24798 |
| Cd 226.502 | 483.016 | ppb | 1.3598 | 0.3 | 18107.2 | 96.60310 |
| Co 228.615 | 485.399 | ppb | 1.9131 | 0.4 | 5063.90 | 97.07980 |
| Cr 267.716 | 4807.90 | ppb | 18.2086 | 0.4 | 238583 | 96.15804 |
| Cu 324.754 | 4923.53 | ppb | 11.2682 | 0.2 | 345522 | 98.47057 |
| Fe 271.441 | 4860.77 | ppb | 15.1576 | 0.3 | 6948.44 | 97.21536 |
| K 766.491 | 9914.13 | ppb | 23.0564 | 0.2 | 424433 | 99.14130 |
| Mg 279.078 | 4793.59 | ppb | 16.7975 | 0.4 | 11572.6 | 95.87185 |
| Mn 257.610 | 4885.25 | ppb | 3.5856 | 0.1 | 1010319 | 97.70496 |
| Mo 202.032 | 480.229 | ppb | 1.7631 | 0.4 | 2973.15 | 96.04586 |
| Na 330.237 | 7575.69 | ppb | 100.701 | 1.3 | 322.403 | 101.00921 |
| Ni 231.604 | 2438.03 | ppb | 7.5733 | 0.3 | 6748.26 | 97.52100 |
| Pb 220.353 | 482.012 | ppb | 3.7924 | 0.8 | 690.950 | 96.40234 |
| Sb 206.834 | 903.068 | ppb | 1.4342 | 0.2 | 1236.57 | 90.30676 |
| Se 196.026 | 4829.12 | ppb | 6.8779 | 0.1 | 1863.00 | 96.58234 |
| Sn 189.925 | 4810.97 | ppb | 6.1566 | 0.1 | 3157.77 | 96.21934 |
| Sr 216.596 | 2400.86 | ppb | 6.7536 | 0.3 | 26175.1 | 96.03459 |
| Ti 334.941 | 470.067 | ppb | 1.7863 | 0.4 | 130381 | 94.01332 |
| Tl 190.794 | 4840.40 | ppb | 16.9932 | 0.4 | 4734.30 | 96.80795 |
| V 292.401 | 4781.01 | ppb | 11.0606 | 0.2 | 123632 | 95.62023 |
| Zn 206.200 | 2412.65 | ppb | 13.8651 | 0.6 | 2165.12 | 96.50603 |

**Cont Calib Blank (CCB)** **10/16/2014, 11:44:08 AM** **Rack 4, Tube 38**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0041 | 0.1730 | 0.2375 |
| Al 308.215 | 8.6918 | 7.2963 | 6.7167 |
| As 188.980 | 4.8224 | 0.4691 | 4.1039 |
| B 249.678 | 8.9730 | 7.5648 | 7.2169 |
| Ba 389.178 | 0.8532 | 1.4756 | 0.1341 |
| Be 313.042 | 0.0596 | 0.0630 | 0.0607 |
| Ca 370.602 | 25.08 | 18.78 | 19.68 |
| Cd 226.502 | 0.1709 | 0.1316 | 0.1656 |
| Co 228.615 | -0.0453u | -0.7006u | 0.1977 |
| Cr 267.716 | 0.8524 | 0.7329 | 0.7562 |
| Cu 324.754 | 0.9899 | 1.2589 | 1.3219 |
| Fe 271.441 | 13.9784 | 17.4507 | 16.9446 |
| K 766.491 | 0.7824 | 0.8152 | 0.2464 |
| Mg 279.078 | 2.2759 | 3.2117 | 0.7498 |
| Mn 257.610 | 1.0346 | 1.0406 | 1.0535 |
| Mo 202.032 | 0.9601 | 0.6961 | 0.0960 |
| Na 330.237 | -26.1720u | -132.243u | -55.7521u |
| Ni 231.604 | 2.4340 | 0.5719 | -0.0517u |
| Pb 220.353 | 0.8300 | 0.9182 | -0.1050u |
| Sb 206.834 | 3.4669 | 4.4187 | 0.4393 |
| Se 196.026 | 6.6962 | 3.8812 | 2.9835 |
| Sn 189.925 | -0.5112u | 5.7622 | 3.6728 |
| Sr 216.596 | 0.4187 | 0.2490 | 0.3293 |
| Ti 334.941 | 0.2161 | 0.1686 | 0.2254 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 4.2862 | 3.8034 | 4.3870 |
| V 292.401 | 0.6946 | 0.9002 | 0.5493 |
| Zn 206.200 | 1.4575 | -0.7554u | -1.1465u |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.1382 | ppb | 0.1206 | 87.2 | 0.2176 | 0.13819 |
| Al 308.215 | 7.5683 | ppb | 1.0153 | 13.4 | 444.574 | 7.56825 |
| As 188.980 | 3.1318 | ppb | 2.3338 | 74.5 | -0.7319 | 3.13181 |
| B 249.678 | 7.9182 | ppb | 0.9299 | 11.7 | 155.201 | 7.91823 |
| Ba 389.178 | 0.8210 | ppb | 0.6713 | 81.8 | -34.1168 | 0.82100 |
| Be 313.042 | 0.0611 | ppb | 0.0017 | 2.8 | -217.580 | 0.06112 |
| Ca 370.602 | 21.18 | ppb | 3.409 | 16.1 | 60.02 | 21.17874 |
| Cd 226.502 | 0.1561 | ppb | 0.0213 | 13.7 | 19.1061 | 0.15607 |
| Co 228.615 | -0.1828 | ppb | 0.4647 | 254.2 | 1.2392 | -0.18276 |
| Cr 267.716 | 0.7805 | ppb | 0.0633 | 8.1 | 69.8648 | 0.78048 |
| Cu 324.754 | 1.1902 | ppb | 0.1764 | 14.8 | 333.389 | 1.19022 |
| Fe 271.441 | 16.1246 | ppb | 1.8758 | 11.6 | 29.5317 | 16.12456 |
| K 766.491 | 0.6147 | ppb | 0.3193 | 52.0 | 351.377 | 0.61468 |
| Mg 279.078 | 2.0791 | ppb | 1.2427 | 59.8 | 23.9609 | 2.07914 |
| Mn 257.610 | 1.0429 | ppb | 0.0097 | 0.9 | 256.428 | 1.04290 |
| Mo 202.032 | 0.5840 | ppb | 0.4428 | 75.8 | 9.8884 | 0.58405 |
| Na 330.237 | -71.3892 | ppb | 54.7374 | 76.7 | 18.6197 | -71.38921 |
| Ni 231.604 | 0.9847 | ppb | 1.2933 | 131.3 | -2.0474 | 0.98472 |
| Pb 220.353 | 0.5478 | ppb | 0.5670 | 103.5 | 1.2157 | 0.54776 |
| Sb 206.834 | 2.7750 | ppb | 2.0780 | 74.9 | 4.7823 | 2.77497 |
| Se 196.026 | 4.5203 | ppb | 1.9371 | 42.9 | 4.4808 | 4.52033 |
| Sn 189.925 | 2.9746 | ppb | 3.1945 | 107.4 | -3.4171 | 2.97457 |
| Sr 216.596 | 0.3323 | ppb | 0.0849 | 25.5 | 6.0158 | 0.33234 |
| Ti 334.941 | 0.2034 | ppb | 0.0305 | 15.0 | -5.4389 | 0.20336 |
| Tl 190.794 | 4.1589 | ppb | 0.3120 | 7.5 | -1.8987 | 4.15887 |
| V 292.401 | 0.7147 | ppb | 0.1763 | 24.7 | 11.3189 | 0.71471 |
| Zn 206.200 | -0.1481 | ppb | 1.4042 | 947.8 | 1.0703 | -0.14815 |

**640-49455-a-8-a (Samp)** **10/16/2014, 11:48:28 AM** **Rack 4, Tube 39**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0665u | 0.1316u | 0.0896u |
| Al 308.215 | 7103.04 | 7098.72 | 7117.91 |
| As 188.980 | 7.8842 | 10.5655 | 8.3480 |
| B 249.678 | 7.2929 | 6.7551 | 6.4985 |
| Ba 389.178 | 166.384 | 167.201 | 167.221 |
| Be 313.042 | 0.3133 | 0.3212 | 0.3127 |
| Ca 370.602 | 20533 | 20492 | 20551 |
| Cd 226.502 | 1.5816 | 1.5015 | 1.5135 |
| Co 228.615 | 1.5168 | 1.7731 | 1.9458 |
| Cr 267.716 | 23.0142 | 23.1542 | 23.0447 |
| Cu 324.754 | 636.125 | 642.116 | 640.055 |
| Fe 271.441 | 9486.03 | 9482.46 | 9487.69 |
| K 766.491 | 372.204 | 371.571 | 372.371 |
| Mg 279.078 | 613.236 | 610.953 | 610.169 |
| Mn 257.610 | 51.2925 | 51.0655 | 51.0781 |
| Mo 202.032 | 2.3336 | 2.0498 | 1.8327 |
| Na 330.237 | 1004.83u | 973.989u | 891.565u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 4.7887 | 5.1655 | 6.6706 |
| Pb 220.353 | 1644.92 | 1645.43 | 1647.08 |
| Sb 206.834 | 6.8479 | 6.1777 | 6.0333 |
| Se 196.026 | 7.7143 | 5.5109 | 5.8433 |
| Sn 189.925 | 3513.56 | 3486.30 | 3504.86 |
| Sr 216.596 | 485.718 | 485.454 | 484.979 |
| Ti 334.941 | 130.813 | 129.100 | 129.553 |
| Tl 190.794 | 2.5013 | 2.1222 | 2.1592 |
| V 292.401 | 12.8737 | 12.6958 | 12.7470 |
| Zn 206.200 | 2626.94 | 2615.09 | 2620.46 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0959 | ppb | 0.0330 | 34.4 | -19.2675 |
| Al 308.215 | 7106.56 | ppb | 10.0684 | 0.1 | 47438.0 |
| As 188.980 | 8.9326 | ppb | 1.4331 | 16.0 | 2.3895 |
| B 249.678 | 6.8488 | ppb | 0.4054 | 5.9 | 119.194 |
| Ba 389.178 | 166.935 | ppb | 0.4775 | 0.3 | 3340.44 |
| Be 313.042 | 0.3157 | ppb | 0.0048 | 1.5 | 204.196 |
| Ca 370.602 | 20525 | ppb | 30.27 | 0.1 | 47414 |
| Cd 226.502 | 1.5322 | ppb | 0.0432 | 2.8 | 104.534 |
| Co 228.615 | 1.7452 | ppb | 0.2158 | 12.4 | 22.2296 |
| Cr 267.716 | 23.0710 | ppb | 0.0736 | 0.3 | 1180.50 |
| Cu 324.754 | 639.432 | ppb | 3.0440 | 0.5 | 45101.2 |
| Fe 271.441 | 9485.39 | ppb | 2.6691 | 0.0 | 13365.0 |
| K 766.491 | 372.048 | ppb | 0.4223 | 0.1 | 16240.6 |
| Mg 279.078 | 611.452 | ppb | 1.5937 | 0.3 | 1501.10 |
| Mn 257.610 | 51.1454 | ppb | 0.1276 | 0.2 | 10649.2 |
| Mo 202.032 | 2.0720 | ppb | 0.2512 | 12.1 | 18.6798 |
| Na 330.237 | 956.793 | ppb | 58.5562 | 6.1 | -0.0164 |
| Ni 231.604 | 5.5416 | ppb | 0.9957 | 18.0 | 11.3012 |
| Pb 220.353 | 1645.81 | ppb | 1.1282 | 0.1 | 2346.57 |
| Sb 206.834 | 6.3530 | ppb | 0.4347 | 6.8 | 10.9180 |
| Se 196.026 | 6.3562 | ppb | 1.1879 | 18.7 | 5.2691 |
| Sn 189.925 | 3501.57 | ppb | 13.9230 | 0.4 | 2296.86 |
| Sr 216.596 | 485.383 | ppb | 0.3745 | 0.1 | 5322.96 |
| Ti 334.941 | 129.822 | ppb | 0.8875 | 0.7 | 35963.8 |
| Tl 190.794 | 2.2609 | ppb | 0.2090 | 9.2 | -4.8528 |
| V 292.401 | 12.7722 | ppb | 0.0916 | 0.7 | 327.934 |
| Zn 206.200 | 2620.83 | ppb | 5.9310 | 0.2 | 2365.22 |

**X (Samp)** **10/16/2014, 11:52:47 AM** **Rack 4, Tube 40**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 10.2354 | 10.5521 | 10.1461 |
| Al 308.215 | 209.873 | 209.305 | 208.790 |
| As 188.980 | 29.7431 | 29.4602 | 23.7884 |
| B 249.678 | 102.413 | 103.546 | 103.196 |
| Ba 389.178 | 9.8851 | 10.5571 | 9.9094 |
| Be 313.042 | 4.1682 | 4.1662 | 4.1556 |
| Ca 370.602 | 504.0 | 502.0 | 500.0 |
| Cd 226.502 | 5.1108 | 5.0364 | 5.0295 |
| Co 228.615 | 10.1937 | 10.1445 | 9.8161 |
| Cr 267.716 | 10.1996 | 10.3432 | 10.3056 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 21.1399 | 21.3382 | 21.9237 |
| Fe 271.441 | 55.0644 | 52.7639 | 48.1547 |
| K 766.491 | 1069.67 | 1071.28 | 1071.82 |
| Mg 279.078 | 508.868 | 512.453 | 505.676 |
| Mn 257.610 | 10.9258 | 10.9147 | 10.8640 |
| Mo 202.032 | 10.1051 | 10.3400 | 9.8405 |
| Na 330.237 | 876.592 | 1014.94 | 854.893 |
| Ni 231.604 | 42.2063 | 42.7070 | 41.0232 |
| Pb 220.353 | 10.5143 | 10.3310 | 14.1702 |
| Sb 206.834 | 20.6791 | 20.7410 | 22.8921 |
| Se 196.026 | 20.8272 | 18.9478 | 22.8865 |
| Sn 189.925 | 57.2995 | 52.8248 | 52.4859 |
| Sr 216.596 | 10.4877 | 9.9632 | 9.8198 |
| Ti 334.941 | 10.2403 | 10.2026 | 10.1206 |
| Tl 190.794 | 22.7371 | 21.6412 | 23.8035 |
| V 292.401 | 10.2393 | 10.4205 | 9.8975 |
| Zn 206.200 | 20.0858 | 23.3799 | 22.1393 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 10.3112 | ppb | 0.2134 | 2.1 | 786.763 |
| Al 308.215 | 209.323 | ppb | 0.5415 | 0.3 | 1781.09 |
| As 188.980 | 27.6639 | ppb | 3.3593 | 12.1 | 12.4284 |
| B 249.678 | 103.052 | ppb | 0.5799 | 0.6 | 1593.89 |
| Ba 389.178 | 10.1172 | ppb | 0.3811 | 3.8 | 155.141 |
| Be 313.042 | 4.1633 | ppb | 0.0068 | 0.2 | 6459.95 |
| Ca 370.602 | 502.0 | ppb | 1.991 | 0.4 | 1175 |
| Cd 226.502 | 5.0589 | ppb | 0.0451 | 0.9 | 202.715 |
| Co 228.615 | 10.0514 | ppb | 0.2053 | 2.0 | 107.793 |
| Cr 267.716 | 10.2828 | ppb | 0.0745 | 0.7 | 541.347 |
| Cu 324.754 | 21.4673 | ppb | 0.4075 | 1.9 | 1755.80 |
| Fe 271.441 | 51.9943 | ppb | 3.5186 | 6.8 | 81.2469 |
| K 766.491 | 1070.92 | ppb | 1.1199 | 0.1 | 46137.1 |
| Mg 279.078 | 508.999 | ppb | 3.3902 | 0.7 | 1255.27 |
| Mn 257.610 | 10.9015 | ppb | 0.0329 | 0.3 | 2298.90 |
| Mo 202.032 | 10.0952 | ppb | 0.2499 | 2.5 | 68.7358 |
| Na 330.237 | 915.476 | ppb | 86.8210 | 9.5 | 65.2600 |
| Ni 231.604 | 41.9789 | ppb | 0.8646 | 2.1 | 111.493 |
| Pb 220.353 | 11.6718 | ppb | 2.1656 | 18.6 | 17.0630 |
| Sb 206.834 | 21.4374 | ppb | 1.2602 | 5.9 | 29.3433 |
| Se 196.026 | 20.8872 | ppb | 1.9700 | 9.4 | 10.7844 |
| Sn 189.925 | 54.2034 | ppb | 2.6867 | 5.0 | 30.2654 |
| Sr 216.596 | 10.0902 | ppb | 0.3516 | 3.5 | 111.714 |
| Ti 334.941 | 10.1878 | ppb | 0.0612 | 0.6 | 2765.86 |
| Tl 190.794 | 22.7273 | ppb | 1.0812 | 4.8 | 16.2661 |
| V 292.401 | 10.1857 | ppb | 0.2656 | 2.6 | 255.043 |
| Zn 206.200 | 21.8683 | ppb | 1.6637 | 7.6 | 20.9069 |

**X (Samp)** **10/16/2014, 11:59:55 AM** **Rack 4, Tube 41**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 10.5139 | 10.5391 | 10.4488 |
| Al 308.215 | 210.274 | 209.966 | 211.631 |
| As 188.980 | 35.2803 | 30.0561 | 25.4374 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 110.485 | 109.374 | 109.923 |
| Ba 389.178 | 10.6559 | 11.2714 | 11.7985 |
| Be 313.042 | 4.2494 | 4.2812 | 4.3222 |
| Ca 370.602 | 499.5 | 501.5 | 496.6 |
| Cd 226.502 | 5.1379 | 5.4917 | 5.1432 |
| Co 228.615 | 10.1617 | 10.3704 | 10.1873 |
| Cr 267.716 | 10.9615 | 11.4277 | 12.0190 |
| Cu 324.754 | 22.4328 | 22.5016 | 22.9871 |
| Fe 271.441 | 55.4115 | 55.2768 | 56.9260 |
| K 766.491 | 1066.98 | 1067.91 | 1066.59 |
| Mg 279.078 | 509.816 | 510.083 | 513.053 |
| Mn 257.610 | 11.7994 | 12.2325 | 12.5834 |
| Mo 202.032 | 10.6248 | 10.1011 | 10.7344 |
| Na 330.237 | 894.124 | 992.832 | 904.598 |
| Ni 231.604 | 43.2462 | 42.0620 | 42.2477 |
| Pb 220.353 | 12.2944 | 13.3985 | 12.3485 |
| Sb 206.834 | 26.2848 | 23.2231 | 25.9123 |
| Se 196.026 | 30.1215 | 29.4692 | 23.8886 |
| Sn 189.925 | 53.6689 | 56.9389 | 55.6307 |
| Sr 216.596 | 11.3077 | 10.4689 | 10.6549 |
| Ti 334.941 | 10.2378 | 10.2418 | 10.3602 |
| Tl 190.794 | 24.3538 | 28.8813 | 28.5051 |
| V 292.401 | 10.8579 | 11.2591 | 11.9327 |
| Zn 206.200 | 21.3774 | 24.4077 | 22.1272 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 10.5006 | ppb | 0.0466 | 0.4 | 801.400 |
| Al 308.215 | 210.624 | ppb | 0.8858 | 0.4 | 1789.86 |
| As 188.980 | 30.2579 | ppb | 4.9246 | 16.3 | 13.8200 |
| B 249.678 | 109.927 | ppb | 0.5558 | 0.5 | 1697.87 |
| Ba 389.178 | 11.2419 | ppb | 0.5719 | 5.1 | 177.964 |
| Be 313.042 | 4.2843 | ppb | 0.0365 | 0.9 | 6656.81 |
| Ca 370.602 | 499.2 | ppb | 2.435 | 0.5 | 1168 |
| Cd 226.502 | 5.2576 | ppb | 0.2028 | 3.9 | 210.185 |
| Co 228.615 | 10.2398 | ppb | 0.1138 | 1.1 | 109.748 |
| Cr 267.716 | 11.4694 | ppb | 0.5300 | 4.6 | 600.225 |
| Cu 324.754 | 22.6405 | ppb | 0.3021 | 1.3 | 1838.09 |
| Fe 271.441 | 55.8714 | ppb | 0.9157 | 1.6 | 86.7127 |
| K 766.491 | 1067.16 | ppb | 0.6773 | 0.1 | 45976.4 |
| Mg 279.078 | 510.984 | ppb | 1.7966 | 0.4 | 1260.07 |
| Mn 257.610 | 12.2051 | ppb | 0.3927 | 3.2 | 2568.52 |
| Mo 202.032 | 10.4867 | ppb | 0.3385 | 3.2 | 71.1574 |
| Na 330.237 | 930.518 | ppb | 54.2194 | 5.8 | 65.9347 |
| Ni 231.604 | 42.5186 | ppb | 0.6369 | 1.5 | 112.989 |
| Pb 220.353 | 12.6804 | ppb | 0.6224 | 4.9 | 18.5012 |
| Sb 206.834 | 25.1401 | ppb | 1.6705 | 6.6 | 34.2297 |
| Se 196.026 | 27.8264 | ppb | 3.4259 | 12.3 | 13.4564 |
| Sn 189.925 | 55.4128 | ppb | 1.6458 | 3.0 | 31.0605 |
| Sr 216.596 | 10.8105 | ppb | 0.4405 | 4.1 | 119.572 |
| Ti 334.941 | 10.2799 | ppb | 0.0695 | 0.7 | 2791.41 |
| Tl 190.794 | 27.2467 | ppb | 2.5124 | 9.2 | 20.6837 |
| V 292.401 | 11.3499 | ppb | 0.5431 | 4.8 | 285.090 |
| Zn 206.200 | 22.6374 | ppb | 1.5782 | 7.0 | 21.5971 |

**Cont Calib Verif (CCV)** **10/16/2014, 12:04:14 PM** **Rack 4, Tube 49**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 481.350 | 478.307 | 480.344 |
| Al 308.215 | 4787.10 | 4778.22 | 4786.73 |
| As 188.980 | 456.673 | 459.124 | 461.339 |
| B 249.678 | 479.439 | 483.151 | 485.658 |
| Ba 389.178 | 4740.87 | 4721.71 | 4723.85 |
| Be 313.042 | 484.249 | 485.332 | 485.302 |
| Ca 370.602 | 4617 | 4591 | 4605 |
| Cd 226.502 | 480.579 | 479.626 | 481.020 |
| Co 228.615 | 483.966 | 482.744 | 483.393 |
| Cr 267.716 | 4796.54 | 4777.93 | 4781.41 |
| Cu 324.754 | 4955.34 | 4928.95 | 4936.12 |
| Fe 271.441 | 4784.19 | 4795.42 | 4783.98 |
| K 766.491 | 9955.36 | 9931.81 | 9947.00 |
| Mg 279.078 | 4794.26 | 4776.45 | 4791.94 |
| Mn 257.610 | 4868.88 | 4866.06 | 4879.61 |
| Mo 202.032 | 475.880 | 477.398 | 476.812 |
| Na 330.237 | 7596.49 | 7694.64 | 7617.59 |
| Ni 231.604 | 2423.39 | 2421.93 | 2425.81 |
| Pb 220.353 | 483.615 | 476.050 | 487.762 |
| Sb 206.834 | 898.310 | 900.959 | 907.548 |
| Se 196.026 | 4809.89 | 4811.88 | 4840.91 |
| Sn 189.925 | 4807.18 | 4775.17 | 4789.13 |
| Sr 216.596 | 2387.39 | 2383.17 | 2393.31 |
| Ti 334.941 | 469.618 | 467.796 | 468.264 |
| Tl 190.794 | 4782.51 | 4800.93 | 4806.41 |
| V 292.401 | 4764.23 | 4760.06 | 4763.30 |
| Zn 206.200 | 2402.80 | 2395.06 | 2404.83 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 480.000 | ppb | 1.5500 | 0.3 | 37071.1 | 96.00005 |
| Al 308.215 | 4784.02 | ppb | 5.0260 | 0.1 | 32550.5 | 95.68033 |
| As 188.980 | 459.045 | ppb | 2.3343 | 0.5 | 243.763 | 91.80908 |
| B 249.678 | 482.749 | ppb | 3.1290 | 0.6 | 7337.24 | 96.54984 |
| Ba 389.178 | 4728.81 | ppb | 10.4994 | 0.2 | 95875.9 | 94.57628 |
| Be 313.042 | 484.961 | ppb | 0.6171 | 0.1 | 789358 | 96.99223 |
| Ca 370.602 | 4605 | ppb | 12.70 | 0.3 | 10912 | 92.09071 |
| Cd 226.502 | 480.409 | ppb | 0.7125 | 0.1 | 18009.5 | 96.08171 |
| Co 228.615 | 483.367 | ppb | 0.6112 | 0.1 | 5042.78 | 96.67350 |
| Cr 267.716 | 4785.29 | ppb | 9.8940 | 0.2 | 237461 | 95.70585 |
| Cu 324.754 | 4940.14 | ppb | 13.6457 | 0.3 | 346687 | 98.80270 |
| Fe 271.441 | 4787.86 | ppb | 6.5447 | 0.1 | 6845.36 | 95.75723 |
| K 766.491 | 9944.72 | ppb | 11.9428 | 0.1 | 425742 | 99.44722 |
| Mg 279.078 | 4787.55 | ppb | 9.6797 | 0.2 | 11558.1 | 95.75098 |
| Mn 257.610 | 4871.51 | ppb | 7.1487 | 0.1 | 1007479 | 97.43027 |
| Mo 202.032 | 476.697 | ppb | 0.7653 | 0.2 | 2951.31 | 95.33937 |
| Na 330.237 | 7636.24 | ppb | 51.6624 | 0.7 | 325.597 | 101.81655 |
| Ni 231.604 | 2423.71 | ppb | 1.9580 | 0.1 | 6708.61 | 96.94855 |
| Pb 220.353 | 482.476 | ppb | 5.9389 | 1.2 | 691.610 | 96.49516 |
| Sb 206.834 | 902.272 | ppb | 4.7569 | 0.5 | 1235.44 | 90.22720 |
| Se 196.026 | 4820.89 | ppb | 17.3640 | 0.4 | 1859.83 | 96.41786 |
| Sn 189.925 | 4790.49 | ppb | 16.0499 | 0.3 | 3144.30 | 95.80981 |
| Sr 216.596 | 2387.96 | ppb | 5.0922 | 0.2 | 26034.3 | 95.51832 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ti 334.941 | 468.560 | ppb | 0.9460 | 0.2 | 129963 | 93.71194 |
| Tl 190.794 | 4796.62 | ppb | 12.5182 | 0.3 | 4691.48 | 95.93233 |
| V 292.401 | 4762.53 | ppb | 2.1891 | 0.0 | 123154 | 95.25058 |
| Zn 206.200 | 2400.90 | ppb | 5.1590 | 0.2 | 2154.55 | 96.03598 |

**Cont Calib Blank (CCB)** **10/16/2014, 12:08:34 PM** **Rack 4, Tube 50**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0890 | -0.0262u | 0.1618 |
| Al 308.215 | 4.6819 | 5.3538 | 5.0975 |
| As 188.980 | 7.8869 | 6.2566 | 6.6415 |
| B 249.678 | 9.3767 | 8.9105 | 8.0839 |
| Ba 389.178 | 0.6669 | 0.5990 | 0.5295 |
| Be 313.042 | 0.0358 | 0.0387 | 0.0429 |
| Ca 370.602 | 9.180 | 6.475 | -0.6941u |
| Cd 226.502 | -0.0547u | 0.1837 | -0.0063u |
| Co 228.615 | 0.3974 | 0.2339 | -0.5237u |
| Cr 267.716 | 0.2713 | 0.3736 | 0.4250 |
| Cu 324.754 | 0.4488 | 0.2158 | 0.6923 |
| Fe 271.441 | -0.6694u | 3.0993 | -3.8186u |
| K 766.491 | -0.7889u | -0.9978u | -0.9032u |
| Mg 279.078 | -1.0754u | -1.9524u | 0.1713 |
| Mn 257.610 | 0.4547 | 0.4902 | 0.5599 |
| Mo 202.032 | 1.2831 | 0.5639 | 0.8996 |
| Na 330.237 | -55.2914u | 34.2686 | -90.9680u |
| Ni 231.604 | -1.0272u | 1.0950 | 1.1168 |
| Pb 220.353 | -1.9439u | 1.7190 | 1.1134 |
| Sb 206.834 | 3.2444 | 1.0504 | 6.4935 |
| Se 196.026 | -2.2151u | 0.6473 | 0.1151 |
| Sn 189.925 | 0.9042 | 1.2769 | 3.8350 |
| Sr 216.596 | -0.1403u | 0.2389 | 0.1186 |
| Ti 334.941 | 0.1154 | 0.1189 | 0.1219 |
| Tl 190.794 | -1.6434u | 0.4443 | 2.8743 |
| V 292.401 | 0.7342 | 0.5830 | 0.7622 |
| Zn 206.200 | 0.8004 | -0.4287u | -0.4703u |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.0749 | ppb | 0.0948 | 126.6 | -4.6592 | 0.07486 |
| Al 308.215 | 5.0444 | ppb | 0.3391 | 6.7 | 427.868 | 5.04438 |
| As 188.980 | 6.9283 | ppb | 0.8522 | 12.3 | 1.3048 | 6.92831 |
| B 249.678 | 8.7904 | ppb | 0.6548 | 7.4 | 168.449 | 8.79038 |
| Ba 389.178 | 0.5985 | ppb | 0.0687 | 11.5 | -38.6407 | 0.59847 |
| Be 313.042 | 0.0392 | ppb | 0.0036 | 9.1 | -253.372 | 0.03917 |
| Ca 370.602 | 4.987 | ppb | 5.102 | 102.3 | 22.70 | 4.98706 |
| Cd 226.502 | 0.0409 | ppb | 0.1260 | 308.3 | 14.7398 | 0.04088 |
| Co 228.615 | 0.0359 | ppb | 0.4914 | 1369.5 | 3.5033 | 0.03588 |
| Cr 267.716 | 0.3567 | ppb | 0.0782 | 21.9 | 48.8234 | 0.35665 |
| Cu 324.754 | 0.4523 | ppb | 0.2383 | 52.7 | 281.643 | 0.45228 |
| Fe 271.441 | -0.4629 | ppb | 3.4636 | 748.2 | 6.1720 | -0.46291 |
| K 766.491 | -0.8967 | ppb | 0.1046 | 11.7 | 286.725 | -0.89666 |
| Mg 279.078 | -0.9522 | ppb | 1.0672 | 112.1 | 16.6079 | -0.95218 |
| Mn 257.610 | 0.5016 | ppb | 0.0535 | 10.7 | 144.419 | 0.50159 |
| Mo 202.032 | 0.9155 | ppb | 0.3599 | 39.3 | 11.9405 | 0.91554 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Na 330.237 | -37.3302 | ppb | 64.5213 | 172.8 | 20.2650 | -37.33024 |
| Ni 231.604 | 0.3949 | ppb | 1.2315 | 311.9 | -3.6826 | 0.39486 |
| Pb 220.353 | 0.2962 | ppb | 1.9635 | 663.0 | 0.8570 | 0.29615 |
| Sb 206.834 | 3.5961 | ppb | 2.7385 | 76.2 | 5.8527 | 3.59611 |
| Se 196.026 | -0.4843 | ppb | 1.5224 | 314.4 | 2.5537 | -0.48426 |
| Sn 189.925 | 2.0054 | ppb | 1.5955 | 79.6 | -4.0544 | 2.00535 |
| Sr 216.596 | 0.0724 | ppb | 0.1938 | 267.6 | 3.1587 | 0.07242 |
| Ti 334.941 | 0.1187 | ppb | 0.0033 | 2.8 | -28.9236 | 0.11873 |
| Tl 190.794 | 0.5584 | ppb | 2.2610 | 404.9 | -5.4180 | 0.55841 |
| V 292.401 | 0.6931 | ppb | 0.0964 | 13.9 | 10.7059 | 0.69315 |
| Zn 206.200 | -0.0328 | ppb | 0.7219 | 2197.9 | 1.1760 | -0.03285 |

**CRI (Samp)** **10/16/2014, 12:13:27 PM** **Rack 4, Tube 51**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 10.5934 | 10.5794 | 10.6658 |
| Al 308.215 | 217.682 | 219.327 | 216.633 |
| As 188.980 | 22.7135 | 22.6786 | 31.4690 |
| B 249.678 | 106.063 | 106.659 | 105.913 |
| Ba 389.178 | 9.5598 | 9.8366 | 10.4492 |
| Be 313.042 | 4.2552 | 4.2561 | 4.2267 |
| Ca 370.602 | 538.7 | 541.8 | 542.5 |
| Cd 226.502 | 4.9070 | 5.0069 | 4.9276 |
| Co 228.615 | 9.9872 | 10.8377 | 10.3120 |
| Cr 267.716 | 10.3839 | 10.3612 | 10.4360 |
| Cu 324.754 | 21.8044 | 21.8118 | 21.3776 |
| Fe 271.441 | 48.4493 | 52.2654 | 54.3924 |
| K 766.491 | 1089.63 | 1090.18 | 1079.26 |
| Mg 279.078 | 520.609 | 518.680 | 520.922 |
| Mn 257.610 | 11.3231 | 11.3388 | 11.2175 |
| Mo 202.032 | 10.2642 | 10.2687 | 9.5543 |
| Na 330.237 | 946.137 | 794.141 | 890.411 |
| Ni 231.604 | 41.8807 | 42.2246 | 42.3759 |
| Pb 220.353 | 11.3271 | 11.6139 | 11.3448 |
| Sb 206.834 | 20.4120 | 24.1523 | 20.5699 |
| Se 196.026 | 22.8892 | 24.3105 | 27.5140 |
| Sn 189.925 | 52.5984 | 55.2414 | 56.3909 |
| Sr 216.596 | 9.9310 | 9.6998 | 9.8542 |
| Ti 334.941 | 10.4254 | 10.4073 | 10.3790 |
| Tl 190.794 | 24.7636 | 25.6428 | 26.4599 |
| V 292.401 | 10.5564 | 10.6148 | 10.4256 |
| Zn 206.200 | 21.2932 | 20.7586 | 20.5410 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 10.6129 | ppb | 0.0464 | 0.4 | 810.113 |
| Al 308.215 | 217.881 | ppb | 1.3580 | 0.6 | 1837.75 |
| As 188.980 | 25.6204 | ppb | 5.0651 | 19.8 | 11.3322 |
| B 249.678 | 106.212 | ppb | 0.3948 | 0.4 | 1641.67 |
| Ba 389.178 | 9.9485 | ppb | 0.4551 | 4.6 | 151.733 |
| Be 313.042 | 4.2460 | ppb | 0.0167 | 0.4 | 6594.53 |
| Ca 370.602 | 541.0 | ppb | 1.984 | 0.4 | 1265 |
| Cd 226.502 | 4.9472 | ppb | 0.0528 | 1.1 | 198.540 |
| Co 228.615 | 10.3790 | ppb | 0.4292 | 4.1 | 111.205 |

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| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 10.3937 | ppb | 0.0383 | 0.4 | 546.852 |
| Cu 324.754 | 21.6646 | ppb | 0.2486 | 1.1 | 1769.63 |
| Fe 271.441 | 51.7024 | ppb | 3.0113 | 5.8 | 80.8286 |
| K 766.491 | 1086.36 | ppb | 6.1528 | 0.6 | 46797.5 |
| Mg 279.078 | 520.071 | ppb | 1.2143 | 0.2 | 1282.17 |
| Mn 257.610 | 11.2931 | ppb | 0.0659 | 0.6 | 2379.96 |
| Mo 202.032 | 10.0291 | ppb | 0.4111 | 4.1 | 68.3264 |
| Na 330.237 | 876.896 | ppb | 76.8941 | 8.8 | 63.4300 |
| Ni 231.604 | 42.1604 | ppb | 0.2538 | 0.6 | 111.996 |
| Pb 220.353 | 11.4286 | ppb | 0.1607 | 1.4 | 16.7159 |
| Sb 206.834 | 21.7114 | ppb | 2.1154 | 9.7 | 29.7021 |
| Se 196.026 | 24.9046 | ppb | 2.3690 | 9.5 | 12.3312 |
| Sn 189.925 | 54.7435 | ppb | 1.9447 | 3.6 | 30.6205 |
| Sr 216.596 | 9.8283 | ppb | 0.1178 | 1.2 | 108.868 |
| Ti 334.941 | 10.4039 | ppb | 0.0234 | 0.2 | 2825.83 |
| Tl 190.794 | 25.6221 | ppb | 0.8483 | 3.3 | 19.0961 |
| V 292.401 | 10.5323 | ppb | 0.0968 | 0.9 | 264.041 |
| Zn 206.200 | 20.8643 | ppb | 0.3871 | 1.9 | 20.0017 |

**X (Samp)** **10/16/2014, 12:17:48 PM** **Rack 4, Tube 52**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 10.4388 | 10.6557 | 10.6942 |
| Al 308.215 | 214.323 | 215.434 | 214.215 |
| As 188.980 | 25.8237 | 28.7364 | 19.7554 |
| B 249.678 | 107.396 | 107.008 | 107.706 |
| Ba 389.178 | 11.0013 | 9.5896 | 10.4105 |
| Be 313.042 | 4.2931 | 4.2721 | 4.2843 |
| Ca 370.602 | 517.0 | 520.3 | 519.4 |
| Cd 226.502 | 5.2288 | 5.1012 | 5.1686 |
| Co 228.615 | 10.4555 | 10.3756 | 10.4955 |
| Cr 267.716 | 10.5259 | 10.4255 | 10.7684 |
| Cu 324.754 | 21.9395 | 21.8465 | 22.2195 |
| Fe 271.441 | 50.3632 | 57.9766 | 53.7570 |
| K 766.491 | 1104.78 | 1102.44 | 1104.38 |
| Mg 279.078 | 569.779 | 564.484 | 572.430 |
| Mn 257.610 | 11.1977 | 11.2044 | 11.2118 |
| Mo 202.032 | 10.4785 | 10.6678 | 10.7324 |
| Na 330.237 | 1390.19 | 1265.36 | 1277.18 |
| Ni 231.604 | 43.2130 | 43.3043 | 42.9791 |
| Pb 220.353 | 10.2376 | 10.8678 | 10.6470 |
| Sb 206.834 | 24.1091 | 22.7720 | 26.5628 |
| Se 196.026 | 26.9675 | 27.8477 | 27.9173 |
| Sn 189.925 | 52.6185 | 53.4875 | 52.1497 |
| Sr 216.596 | 10.6103 | 10.5786 | 11.0958 |
| Ti 334.941 | 10.2981 | 10.2770 | 10.3197 |
| Tl 190.794 | 28.2054 | 25.4971 | 27.7956 |
| V 292.401 | 10.3861 | 10.4419 | 10.6521 |
| Zn 206.200 | 21.3563 | 22.6299 | 20.5742 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 10.5962 | ppb | 0.1377 | 1.3 | 808.790 |
| Al 308.215 | 214.658 | ppb | 0.6748 | 0.3 | 1816.48 |

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| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 24.7718 | ppb | 4.5820 | 18.5 | 10.8768 |
| B 249.678 | 107.370 | ppb | 0.3496 | 0.3 | 1659.23 |
| Ba 389.178 | 10.3338 | ppb | 0.7090 | 6.9 | 159.617 |
| Be 313.042 | 4.2832 | ppb | 0.0105 | 0.2 | 6654.95 |
| Ca 370.602 | 518.9 | ppb | 1.673 | 0.3 | 1214 |
| Cd 226.502 | 5.1662 | ppb | 0.0639 | 1.2 | 206.748 |
| Co 228.615 | 10.4422 | ppb | 0.0611 | 0.6 | 111.853 |
| Cr 267.716 | 10.5732 | ppb | 0.1763 | 1.7 | 555.766 |
| Cu 324.754 | 22.0018 | ppb | 0.1941 | 0.9 | 1793.31 |
| Fe 271.441 | 54.0323 | ppb | 3.8141 | 7.1 | 84.1575 |
| K 766.491 | 1103.86 | ppb | 1.2513 | 0.1 | 47546.4 |
| Mg 279.078 | 568.898 | ppb | 4.0455 | 0.7 | 1400.79 |
| Mn 257.610 | 11.2046 | ppb | 0.0070 | 0.1 | 2362.03 |
| Mo 202.032 | 10.6262 | ppb | 0.1319 | 1.2 | 72.0214 |
| Na 330.237 | 1310.91 | ppb | 68.9131 | 5.3 | 84.1346 |
| Ni 231.604 | 43.1655 | ppb | 0.1677 | 0.4 | 114.780 |
| Pb 220.353 | 10.5841 | ppb | 0.3198 | 3.0 | 15.5109 |
| Sb 206.834 | 24.4813 | ppb | 1.9226 | 7.9 | 33.3477 |
| Se 196.026 | 27.5775 | ppb | 0.5294 | 1.9 | 13.3604 |
| Sn 189.925 | 52.7519 | ppb | 0.6788 | 1.3 | 29.3111 |
| Sr 216.596 | 10.7616 | ppb | 0.2899 | 2.7 | 119.015 |
| Ti 334.941 | 10.2983 | ppb | 0.0214 | 0.2 | 2796.58 |
| Tl 190.794 | 27.1660 | ppb | 1.4598 | 5.4 | 20.6043 |
| V 292.401 | 10.4934 | ppb | 0.1403 | 1.3 | 262.899 |
| Zn 206.200 | 21.5202 | ppb | 1.0376 | 4.8 | 20.5918 |

**CCV (Samp)** **10/16/2014, 12:22:08 PM** **Rack 4, Tube 53**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 479.036 | 482.724 | 478.702 |
| Al 308.215 | 4811.93 | 4815.02 | 4809.36 |
| As 188.980 | 464.454 | 457.241 | 463.733 |
| B 249.678 | 482.822 | 485.542 | 486.288 |
| Ba 389.178 | 4735.78 | 4745.58 | 4739.27 |
| Be 313.042 | 488.410 | 488.017 | 487.724 |
| Ca 370.602 | 4607 | 4621 | 4634 |
| Cd 226.502 | 483.832 | 484.871 | 484.787 |
| Co 228.615 | 485.828 | 486.232 | 487.550 |
| Cr 267.716 | 4817.39 | 4824.91 | 4818.80 |
| Cu 324.754 | 4923.98 | 4919.35 | 4929.78 |
| Fe 271.441 | 4800.20 | 4808.18 | 4813.71 |
| K 766.491 | 9959.08 | 9972.99 | 9970.90 |
| Mg 279.078 | 4827.03 | 4825.29 | 4835.93 |
| Mn 257.610 | 4891.92 | 4906.46 | 4902.77 |
| Mo 202.032 | 476.360 | 480.657 | 480.085 |
| Na 330.237 | 7809.89 | 7534.85 | 7567.34 |
| Ni 231.604 | 2439.80 | 2448.01 | 2446.32 |
| Pb 220.353 | 483.945 | 483.593 | 487.041 |
| Sb 206.834 | 903.142 | 907.427 | 914.932 |
| Se 196.026 | 4861.88 | 4897.86 | 4867.45 |
| Sn 189.925 | 4827.12 | 4827.05 | 4812.58 |
| Sr 216.596 | 2398.15 | 2409.46 | 2407.17 |
| Ti 334.941 | 469.194 | 469.644 | 469.504 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 4819.99 | 4828.40 | 4820.55 |
| V 292.401 | 4773.30 | 4793.27 | 4784.41 |
| Zn 206.200 | 2422.20 | 2423.18 | 2417.78 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 480.154 | ppb | 2.2321 | 0.5 | 37082.9 |
| Al 308.215 | 4812.10 | ppb | 2.8310 | 0.1 | 32738.8 |
| As 188.980 | 461.809 | ppb | 3.9725 | 0.9 | 245.245 |
| B 249.678 | 484.884 | ppb | 1.8246 | 0.4 | 7369.54 |
| Ba 389.178 | 4740.21 | ppb | 4.9667 | 0.1 | 96107.1 |
| Be 313.042 | 488.050 | ppb | 0.3442 | 0.1 | 794387 |
| Ca 370.602 | 4620 | ppb | 13.42 | 0.3 | 10950 |
| Cd 226.502 | 484.497 | ppb | 0.5773 | 0.1 | 18162.5 |
| Co 228.615 | 486.537 | ppb | 0.9005 | 0.2 | 5075.80 |
| Cr 267.716 | 4820.36 | ppb | 3.9971 | 0.1 | 239201 |
| Cu 324.754 | 4924.37 | ppb | 5.2272 | 0.1 | 345581 |
| Fe 271.441 | 4807.36 | ppb | 6.7919 | 0.1 | 6873.46 |
| K 766.491 | 9967.66 | ppb | 7.5048 | 0.1 | 426723 |
| Mg 279.078 | 4829.42 | ppb | 5.7093 | 0.1 | 11659.2 |
| Mn 257.610 | 4900.38 | ppb | 7.5588 | 0.2 | 1013449 |
| Mo 202.032 | 479.034 | ppb | 2.3332 | 0.5 | 2965.75 |
| Na 330.237 | 7637.36 | ppb | 150.296 | 2.0 | 325.101 |
| Ni 231.604 | 2444.71 | ppb | 4.3371 | 0.2 | 6766.77 |
| Pb 220.353 | 484.860 | ppb | 1.8972 | 0.4 | 695.037 |
| Sb 206.834 | 908.500 | ppb | 5.9681 | 0.7 | 1244.01 |
| Se 196.026 | 4875.73 | ppb | 19.3649 | 0.4 | 1880.95 |
| Sn 189.925 | 4822.25 | ppb | 8.3759 | 0.2 | 3165.18 |
| Sr 216.596 | 2404.93 | ppb | 5.9759 | 0.2 | 26219.1 |
| Ti 334.941 | 469.447 | ppb | 0.2307 | 0.0 | 130209 |
| Tl 190.794 | 4822.98 | ppb | 4.7012 | 0.1 | 4717.30 |
| V 292.401 | 4783.66 | ppb | 10.0041 | 0.2 | 123700 |
| Zn 206.200 | 2421.06 | ppb | 2.8743 | 0.1 | 2172.64 |

**CCB (Samp)** **10/16/2014, 12:26:27 PM** **Rack 4, Tube 54**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.2444 | 0.1800 | -0.2440u |
| Al 308.215 | 6.3442 | 6.2957 | 5.4661 |
| As 188.980 | 11.2025 | 9.9649 | 4.9743 |
| B 249.678 | 9.2427 | 8.1790 | 7.4784 |
| Ba 389.178 | 0.7479 | 0.8229 | 1.5284 |
| Be 313.042 | 0.0530 | 0.0740 | 0.0701 |
| Ca 370.602 | 8.826 | 11.53 | 11.43 |
| Cd 226.502 | 0.2106 | 0.1948 | 0.0222 |
| Co 228.615 | -0.1446u | -0.1949u | -0.1727u |
| Cr 267.716 | 0.7878 | 1.0430 | 0.7918 |
| Cu 324.754 | 0.8117 | 1.0027 | 1.3014 |
| Fe 271.441 | 6.5584 | 7.4029 | 3.8649 |
| K 766.491 | 0.1247 | 0.9090 | 0.7060 |
| Mg 279.078 | 2.7517 | -1.7734u | 3.0346 |
| Mn 257.610 | 0.7313 | 0.9940 | 1.0699 |
| Mo 202.032 | 1.0588 | 0.7639 | 0.6832 |
| Na 330.237 | -46.7049u | -69.9583u | -41.2891u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 1.5998 | 0.6089 | 0.9098 |
| Pb 220.353 | -2.1381u | 1.8938 | 2.3103 |
| Sb 206.834 | 6.2287 | 4.3658 | 4.8440 |
| Se 196.026 | 9.6716 | -0.9087u | 8.8232 |
| Sn 189.925 | 0.5611 | 0.6101 | 4.2504 |
| Sr 216.596 | 0.6561 | 0.6097 | 0.7922 |
| Ti 334.941 | 0.2059 | 0.2036 | 0.2251 |
| Tl 190.794 | 1.8724 | 1.1271 | 4.4931 |
| V 292.401 | 0.5718 | 0.8647 | 1.1987 |
| Zn 206.200 | -0.7948u | 0.1515 | -0.8956u |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0601 | ppb | 0.2654 | 441.4 | -5.8119 |
| Al 308.215 | 6.0354 | ppb | 0.4936 | 8.2 | 434.443 |
| As 188.980 | 8.7139 | ppb | 3.2972 | 37.8 | 2.2627 |
| B 249.678 | 8.3000 | ppb | 0.8883 | 10.7 | 161.043 |
| Ba 389.178 | 1.0331 | ppb | 0.4306 | 41.7 | -29.8235 |
| Be 313.042 | 0.0657 | ppb | 0.0111 | 17.0 | -210.150 |
| Ca 370.602 | 10.60 | ppb | 1.535 | 14.5 | 35.71 |
| Cd 226.502 | 0.1426 | ppb | 0.1045 | 73.3 | 18.5487 |
| Co 228.615 | -0.1708 | ppb | 0.0252 | 14.8 | 1.3565 |
| Cr 267.716 | 0.8742 | ppb | 0.1462 | 16.7 | 74.5037 |
| Cu 324.754 | 1.0386 | ppb | 0.2468 | 23.8 | 322.759 |
| Fe 271.441 | 5.9421 | ppb | 1.8478 | 31.1 | 15.1902 |
| K 766.491 | 0.5799 | ppb | 0.4071 | 70.2 | 349.890 |
| Mg 279.078 | 1.3377 | ppb | 2.6979 | 201.7 | 22.1622 |
| Mn 257.610 | 0.9317 | ppb | 0.1777 | 19.1 | 233.388 |
| Mo 202.032 | 0.8353 | ppb | 0.1977 | 23.7 | 11.4437 |
| Na 330.237 | -52.6507 | ppb | 15.2314 | 28.9 | 19.5354 |
| Ni 231.604 | 1.0395 | ppb | 0.5081 | 48.9 | -1.8967 |
| Pb 220.353 | 0.6887 | ppb | 2.4569 | 356.8 | 1.4173 |
| Sb 206.834 | 5.1462 | ppb | 0.9675 | 18.8 | 7.9029 |
| Se 196.026 | 5.8620 | ppb | 5.8790 | 100.3 | 4.9972 |
| Sn 189.925 | 1.8072 | ppb | 2.1160 | 117.1 | -4.1847 |
| Sr 216.596 | 0.6860 | ppb | 0.0949 | 13.8 | 9.8542 |
| Ti 334.941 | 0.2115 | ppb | 0.0118 | 5.6 | -3.1714 |
| Tl 190.794 | 2.4975 | ppb | 1.7679 | 70.8 | -3.5219 |
| V 292.401 | 0.8784 | ppb | 0.3137 | 35.7 | 15.4997 |
| Zn 206.200 | -0.5129 | ppb | 0.5776 | 112.6 | 0.7414 |

**Blank (Blk)** **10/17/2014, 4:00:52 PM** **Rack S, Tube 1**

| Label | Replicates | Concentration | |
|---|---|---|---|
| Ag 328.068 | -0.0540 | -0.0441 | 0.0981 |
| Al 308.215 | -0.1220 | -0.2315 | 0.3534 |
| As 188.980 | -0.5935 | -1.7008 | 2.2943 |
| B 249.678 | -0.1429 | -0.0784 | 0.2213 |
| Ba 389.178 | 0.7024 | -0.2896 | -0.4128 |
| Be 313.042 | -0.0003 | -0.0005 | 0.0008 |
| Ca 370.602 | 0.6612 | -0.6019 | -0.0593 |
| Cd 226.502 | 0.0841 | -0.0193 | -0.0648 |
| Co 228.615 | 0.3212 | -0.0855 | -0.2357 |
| Cr 267.716 | -0.0599 | -0.1185 | 0.1784 |
| Cu 324.754 | 0.0258 | -0.2937 | 0.2679 |
| Fe 271.441 | 1.5786 | 2.4261 | -4.0047 |
| K 766.491 | -0.1273 | 0.2699 | -0.1426 |
| Mg 279.078 | 0.0960 | 0.1678 | -0.2637 |
| Mn 257.610 | 0.0069 | -0.0282 | 0.0213 |
| Mo 202.032 | 0.0181 | -0.3498 | 0.3317 |
| Na 330.237 | -105.200 | 68.5566 | 36.6438 |
| Ni 231.604 | -0.2150 | -0.0413 | 0.2563 |
| Pb 220.353 | -0.1105 | 0.6302 | -0.5197 |
| Sb 206.834 | -0.4268 | -1.3378 | 1.7646 |
| Se 196.026 | -0.1600 | 1.0837 | -0.9237 |
| Sn 189.925 | -1.0050 | 1.1509 | -0.1460 |
| Sr 216.596 | -0.0552 | 0.0289 | 0.0263 |
| Ti 334.941 | -0.0199 | 0.0172 | 0.0027 |
| Tl 190.794 | -0.3521 | 0.0900 | 0.2621 |
| V 292.401 | -0.0015 | -0.1382 | 0.1397 |
| Zn 206.200 | 0.1296 | 0.0478 | -0.1774 |

| Label | Sol'n Conc. | Units | SD(Int) | %RSD(Int) | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0000 | ppb | 7.261 | 106.3 | -6.8319 |
| Al 308.215 | 0.0000 | ppb | 2.084 | 0.3 | 603.204 |
| As 188.980 | 0.0000 | ppb | 1.388 | 26.6 | -5.2253 |
| B 249.678 | 0.0000 | ppb | 3.248 | 7.8 | 41.6582 |
| Ba 389.178 | 0.0000 | ppb | 13.161 | 16.3 | -80.6053 |
| Be 313.042 | 0.0000 | ppb | 1.236 | 0.5 | -239.895 |
| Ca 370.602 | 0.0000 | ppb | 1.838 | 9.0 | 20.35 |
| Cd 226.502 | 0.0000 | ppb | 3.219 | 33.8 | 9.5102 |
| Co 228.615 | 0.0000 | ppb | 3.386 | 49.6 | 6.8228 |
| Cr 267.716 | 0.0000 | ppb | 8.656 | 25.2 | 34.3822 |
| Cu 324.754 | 0.0000 | ppb | 20.878 | 8.6 | 243.168 |
| Fe 271.441 | 0.0000 | ppb | 5.505 | 34.3 | 16.0611 |
| K 766.491 | 0.0000 | ppb | 10.476 | 4.3 | 243.130 |
| Mg 279.078 | 0.0000 | ppb | 0.630 | 2.7 | 23.4916 |
| Mn 257.610 | 0.0000 | ppb | 5.005 | 13.8 | 36.2395 |
| Mo 202.032 | 0.0000 | ppb | 2.335 | 36.5 | 6.3940 |
| Na 330.237 | 0.0000 | ppb | 4.149 | 16.1 | 25.7757 |
| Ni 231.604 | 0.0000 | ppb | 0.745 | 13.2 | -5.6355 |
| Pb 220.353 | 0.0000 | ppb | 0.919 | 9.7 | 9.4867 |
| Sb 206.834 | 0.0000 | ppb | 2.277 | 40.3 | -5.6525 |
| Se 196.026 | 0.0000 | ppb | 0.477 | 62.1 | 0.7679 |
| Sn 189.925 | 0.0000 | ppb | 0.822 | 14.3 | -5.7487 |
| Sr 216.596 | 0.0000 | ppb | 0.592 | 9.3 | 6.3734 |
| Ti 334.941 | 0.0000 | ppb | 5.451 | 17.2 | -31.6786 |

| Label | Sol'n Conc. | Units | SD(Int) | %RSD(Int) | Int. (c/s) |
|---|---|---|---|---|---|
| Tl 190.794 | 0.0000 | ppb | 0.354 | 4.6 | -7.6866 |
| V 292.401 | 0.0000 | ppb | 3.630 | 32.1 | -11.3145 |
| Zn 206.200 | 0.0000 | ppb | 0.175 | 72.1 | 0.2422 |

**HIGH STD (Std)** **10/17/2014, 4:05:07 PM** **Rack S, Tube 2**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 1005.35 | 997.975 | 996.677 |
| Al 308.215 | 10011.8 | 9998.13 | 9990.10 |
| As 188.980 | 1009.99 | 989.944 | 1000.07 |
| B 249.678 | 995.049 | 999.438 | 1005.51 |
| Ba 389.178 | 10017.6 | 9994.99 | 9987.39 |
| Be 313.042 | 1002.39 | 999.016 | 998.593 |
| Ca 370.602 | 9994 | 9979 | 10027 |
| Cd 226.502 | 1000.16 | 999.727 | 1000.11 |
| Co 228.615 | 999.109 | 999.074 | 1001.82 |
| Cr 267.716 | 10003.6 | 9989.83 | 10006.6 |
| Cu 324.754 | 9999.63 | 10014.0 | 9986.33 |
| Fe 271.441 | 10014.7 | 9992.44 | 9992.82 |
| K 766.491 | 20043.2 | 19996.5 | 19960.3 |
| Mg 279.078 | 9998.59 | 9996.75 | 10004.7 |
| Mn 257.610 | 9999.86 | 9973.42 | 10026.7 |
| Mo 202.032 | 1000.33 | 998.387 | 1001.28 |
| Na 330.237 | 14745.4 | 15332.0 | 14922.6 |
| Ni 231.604 | 4993.60 | 5002.38 | 5004.03 |
| Pb 220.353 | 1001.46 | 1002.50 | 996.038 |
| Sb 206.834 | 2006.97 | 1995.67 | 1997.35 |
| Se 196.026 | 10022.2 | 9978.58 | 9999.18 |
| Sn 189.925 | 9981.91 | 10054.5 | 9963.62 |
| Sr 216.596 | 5003.19 | 4995.30 | 5001.51 |
| Ti 334.941 | 1001.96 | 999.190 | 998.850 |
| Tl 190.794 | 9980.91 | 9999.84 | 10019.2 |
| V 292.401 | 10002.6 | 9980.07 | 10017.4 |
| Zn 206.200 | 5007.72 | 4976.62 | 5015.65 |

| Label | Sol'n Conc. | Units | SD(Int) | %RSD(Int) | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 1000.00 | ppb | 399.073 | 0.5 | 85334.0 |
| Al 308.215 | 10000.0 | ppb | 73.392 | 0.1 | 67640.0 |
| As 188.980 | 1000.00 | ppb | 6.746 | 1.0 | 667.795 |
| B 249.678 | 1000.00 | ppb | 87.812 | 0.5 | 16753.5 |
| Ba 389.178 | 10000.0 | ppb | 338.599 | 0.2 | 215185 |
| Be 313.042 | 1000.00 | ppb | 3766.049 | 0.2 | 1809314 |
| Ca 370.602 | 10000 | ppb | 71.100 | 0.2 | 29024 |
| Cd 226.502 | 1000.00 | ppb | 10.036 | 0.0 | 42174.7 |
| Co 228.615 | 1000.00 | ppb | 18.482 | 0.2 | 11759.3 |
| Cr 267.716 | 10000.0 | ppb | 491.904 | 0.1 | 550598 |
| Cu 324.754 | 10000.0 | ppb | 1026.293 | 0.1 | 741334 |
| Fe 271.441 | 10000.0 | ppb | 20.108 | 0.1 | 15771.0 |
| K 766.491 | 20000.0 | ppb | 1861.013 | 0.2 | 896073 |
| Mg 279.078 | 10000.0 | ppb | 11.281 | 0.0 | 27263.8 |
| Mn 257.610 | 10000.0 | ppb | 5240.739 | 0.3 | 1966852 |
| Mo 202.032 | 1000.00 | ppb | 10.093 | 0.1 | 6851.23 |
| Na 330.237 | 15000.0 | ppb | 13.499 | 1.9 | 698.718 |
| Ni 231.604 | 5000.00 | ppb | 17.530 | 0.1 | 15631.9 |

| Label | Sol'n Conc. | Units | SD(Int) | %RSD(Int) | Int. (c/s) |
|---|---|---|---|---|---|
| Pb 220.353 | 1000.00 | ppb | 5.472 | 0.3 | 1586.17 |
| Sb 206.834 | 2000.00 | ppb | 8.703 | 0.3 | 2849.92 |
| Se 196.026 | 10000.0 | ppb | 10.281 | 0.2 | 4707.59 |
| Sn 189.925 | 10000.0 | ppb | 36.402 | 0.5 | 7569.34 |
| Sr 216.596 | 5000.00 | ppb | 51.416 | 0.1 | 61887.5 |
| Ti 334.941 | 1000.00 | ppb | 497.146 | 0.2 | 291424 |
| Tl 190.794 | 10000.0 | ppb | 21.435 | 0.2 | 11175.4 |
| V 292.401 | 10000.0 | ppb | 490.600 | 0.2 | 261183 |
| Zn 206.200 | 5000.00 | ppb | 22.669 | 0.4 | 5494.40 |

**Ag 328.068 Calibration (ppb)** **10/17/2014, 4:05:07 PM** **Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -6.8319 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 85334.0 | 1000.00 | 1000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 85.3 x + -6.8

**Al 308.215 Calibration (ppb)** **10/17/2014, 4:05:07 PM** **Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 603.204 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 67640.0 | 10000.0 | 10000.00 | -0.0010 | 0.0 |

Curve Type: Linear Equation: y = 6.7 x + 603.2

**As 188.980 Calibration (ppb)** **10/17/2014, 4:05:07 PM** **Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -5.2253 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 667.795 | 1000.00 | 1000.00 | 0.0001 | 0.0 |

Curve Type: Linear Equation: y = 0.7 x + -5.2

**B 249.678 Calibration (ppb)** **10/17/2014, 4:05:07 PM** **Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 41.6582 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 16753.5 | 1000.00 | 1000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 16.7 x + 41.7

**Ba 389.178 Calibration (ppb)** **10/17/2014, 4:05:07 PM** **Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -80.6053 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 215185 | 10000.0 | 10000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 21.5 x + -80.6

**Be 313.042 Calibration (ppb) 10/17/2014, 4:05:07 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -239.895 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 1809314 | 1000.00 | 1000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 1809.6 x + -239.9

**Ca 370.602 Calibration (ppb) 10/17/2014, 4:05:07 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 20.35 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 29024 | 10000 | 10000 | 0.0010 | 0.0 |

Curve Type: Linear Equation: y = 2.9 x + 20.4

**Cd 226.502 Calibration (ppb) 10/17/2014, 4:05:07 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 9.5102 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 42174.7 | 1000.00 | 1000.000 | -0.0001 | 0.0 |

Curve Type: Linear Equation: y = 42.2 x + 9.5

**Co 228.615 Calibration (ppb) 10/17/2014, 4:05:07 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 6.8228 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 11759.3 | 1000.00 | 1000.000 | -0.0001 | 0.0 |

Curve Type: Linear Equation: y = 11.8 x + 6.8

**Cr 267.716 Calibration (ppb) 10/17/2014, 4:05:07 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 34.3822 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 550598 | 10000.0 | 10000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 55.1 x + 34.4

**Cu 324.754 Calibration (ppb) 10/17/2014, 4:05:07 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 243.168 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 741334 | 10000.0 | 10000.00 | -0.0020 | 0.0 |

Curve Type: Linear Equation: y = 74.1 x + 243.2

**Fe 271.441 Calibration (ppb) 10/17/2014, 4:05:07 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 16.0611 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 15771.0 | 10000.0 | 10000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 1.6 x + 16.1

**K 766.491 Calibration (ppb) 10/17/2014, 4:05:07 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 243.130 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 896073 | 20000.0 | 20000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 44.8 x + 243.1

**Mg 279.078 Calibration (ppb) 10/17/2014, 4:05:07 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 23.4916 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 27263.8 | 10000.0 | 10000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 2.7 x + 23.5

**Mn 257.610 Calibration (ppb) 10/17/2014, 4:05:07 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 36.2395 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 1966852 | 10000.0 | 10000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 196.7 x + 36.2

**Mo 202.032 Calibration (ppb) 10/17/2014, 4:05:07 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 6.3940 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 6851.23 | 1000.00 | 1000.000 | -0.0001 | 0.0 |

Curve Type: Linear Equation: y = 6.8 x + 6.4

**Na 330.237 Calibration (ppb) 10/17/2014, 4:05:07 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 25.7757 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 698.718 | 15000.0 | 15000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 0.0 x + 25.8

**Ni 231.604 Calibration (ppb) 10/17/2014, 4:05:07 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -5.6355 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 15631.9 | 5000.00 | 5000.00 | 0.0005 | 0.0 |

Curve Type: Linear Equation: y = 3.1 x + -5.6

**Pb 220.353 Calibration (ppb) 10/17/2014, 4:05:07 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 9.4867 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 1586.17 | 1000.00 | 1000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 1.6 x + 9.5

**Sb 206.834 Calibration (ppb) 10/17/2014, 4:05:07 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -5.6525 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 2849.92 | 2000.00 | 2000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 1.4 x + -5.7

**Se 196.026 Calibration (ppb) 10/17/2014, 4:05:07 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 0.7679 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 4707.59 | 10000.0 | 10000.0 | 0.0010 | 0.0 |

Curve Type: Linear Equation: y = 0.5 x + 0.8

**Sn 189.925 Calibration (ppb) 10/17/2014, 4:05:07 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -5.7487 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 7569.34 | 10000.0 | 10000.0 | 0.0010 | 0.0 |

Curve Type: Linear Equation: y = 0.8 x + -5.7

**Sr 216.596 Calibration (ppb) 10/17/2014, 4:05:07 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 6.3734 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 61887.5 | 5000.00 | 5000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 12.4 x + 6.4

**Ti 334.941 Calibration (ppb) 10/17/2014, 4:05:07 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -31.6786 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 291424 | 1000.00 | 1000.000 | -0.0002 | 0.0 |

Curve Type: Linear Equation: y = 291.5 x + -31.7

**Tl 190.794 Calibration (ppb) 10/17/2014, 4:05:07 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -7.6866 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 11175.4 | 10000.0 | 10000.00 | -0.0010 | 0.0 |

Curve Type: Linear Equation: y = 1.1 x + -7.7

**V 292.401 Calibration (ppb) 10/17/2014, 4:05:07 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -11.3145 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 261183 | 10000.0 | 10000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 26.1 x + -11.3

**Zn 206.200 Calibration (ppb) 10/17/2014, 4:05:07 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 0.2422 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 5494.40 | 5000.00 | 5000.00 | -0.0005 | 0.0 |

Curve Type: Linear Equation: y = 1.1 x + 0.2

**Lab Control Sample (LCS) 10/17/2014, 4:09:22 PM Rack S, Tube 2**

**Weight: 1 Volume: 1 Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 1000.62 | 1000.26 | 1003.06 |
| Al 308.215 | 9999.12 | 10030.5 | 10017.8 |
| As 188.980 | 998.983 | 1004.45 | 1014.17 |
| B 249.678 | 1008.89 | 1016.91 | 1015.40 |
| Ba 389.178 | 10001.2 | 10044.8 | 10021.2 |
| Be 313.042 | 999.470 | 1001.91 | 1000.85 |
| Ca 370.602 | 10088 | 10070 | 10032 |
| Cd 226.502 | 1000.18 | 1001.61 | 999.295 |
| Co 228.615 | 1003.24 | 1002.38 | 1000.20 |
| Cr 267.716 | 10009.3 | 10040.1 | 10002.5 |
| Cu 324.754 | 9990.49 | 9911.35 | 9924.93 |
| Fe 271.441 | 9999.11 | 10010.3 | 9992.26 |
| K 766.491 | 19988.2 | 20095.9 | 20064.0 |
| Mg 279.078 | 10007.9 | 10030.4 | 10009.1 |
| Mn 257.610 | 10041.7 | 10075.4 | 10029.9 |
| Mo 202.032 | 998.723 | 1001.78 | 1000.10 |
| Na 330.237 | 15163.6 | 15470.5 | 15271.0 |
| Ni 231.604 | 5000.22 | 5001.64 | 4998.31 |
| Pb 220.353 | 1000.16 | 1003.00 | 1004.13 |
| Sb 206.834 | 1997.57 | 2013.40 | 1997.45 |
| Se 196.026 | 9975.07 | 10017.5 | 9981.73 |
| Sn 189.925 | 10011.5 | 10031.0 | 9952.66 |
| Sr 216.596 | 5015.90 | 5022.27 | 5006.25 |
| Ti 334.941 | 999.764 | 1003.25 | 1001.47 |
| Tl 190.794 | 9984.72 | 10021.7 | 9971.66 |
| V 292.401 | 10017.4 | 10027.7 | 9994.90 |
| Zn 206.200 | 5019.28 | 5012.91 | 4989.17 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 1001.31 | ppb | 1.5225 | 0.2 | 85349.2 | 100.13129 |
| Al 308.215 | 10015.8 | ppb | 15.7671 | 0.2 | 68806.8 | 100.15810 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| As 188.980 | 1005.87 | ppb | 7.6905 | 0.8 | 671.495 | 100.58671 |
| B 249.678 | 1013.73 | ppb | 4.2635 | 0.4 | 16989.6 | 20.27466* |
| Ba 389.178 | 10022.4 | ppb | 21.8137 | 0.2 | 215711 | 100.22385 |
| Be 313.042 | 1000.74 | ppb | 1.2238 | 0.1 | 1811048 | 100.07438 |
| Ca 370.602 | 10063 | ppb | 28.57 | 0.3 | 29882 | 100.63481 |
| Cd 226.502 | 1000.36 | ppb | 1.1702 | 0.1 | 42227.6 | 100.03625 |
| Co 228.615 | 1001.94 | ppb | 1.5677 | 0.2 | 11792.9 | 100.19395 |
| Cr 267.716 | 10017.3 | ppb | 20.0645 | 0.2 | 551486 | 100.17295 |
| Cu 324.754 | 9942.26 | ppb | 42.3217 | 0.4 | 736952 | 99.42258 |
| Fe 271.441 | 10000.6 | ppb | 9.1164 | 0.1 | 15995.4 | 100.00562 |
| K 766.491 | 20049.3 | ppb | 55.3111 | 0.3 | 898284 | 100.24673 |
| Mg 279.078 | 10015.8 | ppb | 12.6685 | 0.1 | 27095.0 | 100.15788 |
| Mn 257.610 | 10049.0 | ppb | 23.5900 | 0.2 | 1976592 | 100.49028 |
| Mo 202.032 | 1000.20 | ppb | 1.5304 | 0.2 | 6841.15 | 100.01997 |
| Na 330.237 | 15301.7 | ppb | 155.722 | 1.0 | 592.321 | 102.01128 |
| Ni 231.604 | 5000.06 | ppb | 1.6690 | 0.0 | 15630.5 | 100.00118 |
| Pb 220.353 | 1002.43 | ppb | 2.0465 | 0.2 | 1598.60 | 100.24263 |
| Sb 206.834 | 2002.81 | ppb | 9.1749 | 0.5 | 2955.11 | 100.14037 |
| Se 196.026 | 9991.42 | ppb | 22.7978 | 0.2 | 4706.01 | 99.91417 |
| Sn 189.925 | 9998.40 | ppb | 40.7941 | 0.4 | 7568.14 | 99.98402 |
| Sr 216.596 | 5014.81 | ppb | 8.0671 | 0.2 | 61934.0 | 100.29615 |
| Ti 334.941 | 1001.49 | ppb | 1.7408 | 0.2 | 291877 | 100.14917 |
| Tl 190.794 | 9992.70 | ppb | 25.9532 | 0.3 | 11187.6 | 99.92696 |
| V 292.401 | 10013.3 | ppb | 16.7614 | 0.2 | 260961 | 100.13337 |
| Zn 206.200 | 5007.12 | ppb | 15.8651 | 0.3 | 5470.28 | 100.14240 |

**Initial Calib Verif (ICV)** **10/17/2014, 4:13:37 PM** **Rack S, Tube 3**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 1029.78 | 1031.79 | 1022.71 |
| Al 308.215 | 1016.31 | 1009.77 | 1006.91 |
| As 188.980 | 1011.00 | 1027.56 | 1010.40 |
| B 249.678 | 1030.53 | 1028.68 | 1026.48 |
| Ba 389.178 | 1047.45 | 1045.62 | 1039.48 |
| Be 313.042 | 1035.80 | 1026.67 | 1020.56 |
| Ca 370.602 | 986.8 | 985.0 | 978.1 |
| Cd 226.502 | 1024.13 | 1022.05 | 1018.85 |
| Co 228.615 | 1054.35 | 1048.80 | 1047.41 |
| Cr 267.716 | 1030.47 | 1025.93 | 1020.06 |
| Cu 324.754 | 1047.41 | 1050.88 | 1042.35 |
| Fe 271.441 | 1022.52 | 1007.16 | 1005.91 |
| K 766.491 | 10388.3 | 10308.3 | 10268.3 |
| Mg 279.078 | 1012.59 | 1006.99 | 1002.97 |
| Mn 257.610 | 1062.95 | 1051.98 | 1048.31 |
| Mo 202.032 | 1038.44 | 1039.14 | 1036.20 |
| Na 330.237 | 10121.2 | 9771.04 | 10195.0 |
| Ni 231.604 | 1033.57 | 1024.64 | 1025.53 |
| Pb 220.353 | 1034.78 | 1033.79 | 1019.82 |
| Sb 206.834 | 1044.53 | 1041.29 | 1032.44 |
| Se 196.026 | 1004.28 | 987.177 | 976.278 |
| Sn 189.925 | 5080.33 | 5088.00 | 5029.63 |
| Sr 216.596 | 5167.26 | 5154.95 | 5130.99 |
| Ti 334.941 | 1001.83 | 998.106 | 991.455 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 1012.13 | 1007.43 | 1005.64 |
| V 292.401 | 1059.07 | 1050.31 | 1047.57 |
| Zn 206.200 | 1031.35 | 1025.72 | 1015.84 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 1028.09 | ppb | 4.7676 | 0.5 | 87562.1 | 102.80910 |
| Al 308.215 | 1011.00 | ppb | 4.8152 | 0.5 | 7539.90 | 101.09980 |
| As 188.980 | 1016.32 | ppb | 9.7358 | 1.0 | 678.482 | 101.63206 |
| B 249.678 | 1028.56 | ppb | 2.0244 | 0.2 | 17243.3 | 102.85614 |
| Ba 389.178 | 1044.18 | ppb | 4.1742 | 0.4 | 22406.1 | 104.41821 |
| Be 313.042 | 1027.68 | ppb | 7.6680 | 0.7 | 1859298 | 102.76772 |
| Ca 370.602 | 983.3 | ppb | 4.560 | 0.5 | 3345 | 98.33138 |
| Cd 226.502 | 1021.68 | ppb | 2.6591 | 0.3 | 43092.8 | 102.16783 |
| Co 228.615 | 1050.19 | ppb | 3.6750 | 0.3 | 12340.4 | 105.01871 |
| Cr 267.716 | 1025.49 | ppb | 5.2171 | 0.5 | 56479.3 | 102.54872 |
| Cu 324.754 | 1046.88 | ppb | 4.2917 | 0.4 | 77853.8 | 104.68794 |
| Fe 271.441 | 1011.87 | ppb | 9.2484 | 0.9 | 1749.49 | 101.18666 |
| K 766.491 | 10321.6 | ppb | 61.1226 | 0.6 | 462563 | 103.21600 |
| Mg 279.078 | 1007.52 | ppb | 4.8318 | 0.5 | 2745.67 | 100.75156 |
| Mn 257.610 | 1054.41 | ppb | 7.6169 | 0.7 | 207429 | 105.44096Q |
| Mo 202.032 | 1037.93 | ppb | 1.5366 | 0.1 | 7109.63 | 103.79270 |
| Na 330.237 | 10029.1 | ppb | 226.473 | 2.3 | 449.793 | 100.29052 |
| Ni 231.604 | 1027.92 | ppb | 4.9191 | 0.5 | 3206.65 | 102.79160 |
| Pb 220.353 | 1029.46 | ppb | 8.3628 | 0.8 | 1631.47 | 102.94643 |
| Sb 206.834 | 1039.42 | ppb | 6.2571 | 0.6 | 1474.52 | 103.94206 |
| Se 196.026 | 989.246 | ppb | 14.1164 | 1.4 | 466.648 | 98.92459 |
| Sn 189.925 | 5065.99 | ppb | 31.7216 | 0.6 | 3831.79 | 101.31972 |
| Sr 216.596 | 5151.07 | ppb | 18.4426 | 0.4 | 63717.1 | 103.02134 |
| Ti 334.941 | 997.130 | ppb | 5.2563 | 0.5 | 290589 | 99.71303 |
| Tl 190.794 | 1008.40 | ppb | 3.3518 | 0.3 | 1121.86 | 100.83978 |
| V 292.401 | 1052.32 | ppb | 6.0045 | 0.6 | 27279.3 | 105.23173 |
| Zn 206.200 | 1024.30 | ppb | 7.8505 | 0.8 | 1122.50 | 102.43021 |

**Initial Calib Blank (ICB)** **10/17/2014, 4:19:07 PM** **Rack S, Tube 1**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1011u | -0.1106u | -0.2723u |
| Al 308.215 | 1.7141 | 2.2240 | 0.7844 |
| As 188.980 | -1.4539u | -4.5724u | -1.1165u |
| B 249.678 | 14.3076 | 12.3242 | 11.1587 |
| Ba 389.178 | -0.2221u | 1.0776 | 0.1168 |
| Be 313.042 | 0.0218 | 0.0190 | 0.0183 |
| Ca 370.602 | 4.164 | -0.0427u | 4.149 |
| Cd 226.502 | 0.1322 | 0.0115 | 0.1952 |
| Co 228.615 | 0.0115 | -0.2021u | -0.0534u |
| Cr 267.716 | 0.3331 | 0.2649 | 0.2510 |
| Cu 324.754 | 0.5735 | 0.7700 | 0.5652 |
| Fe 271.441 | 3.5190 | -0.3305u | 1.2764 |
| K 766.491 | 0.8665 | 1.1608 | 1.8541 |
| Mg 279.078 | 3.6528 | 0.8488 | 0.1238 |
| Mn 257.610 | 0.3067 | 0.2894 | 0.3263 |
| Mo 202.032 | 1.6127 | 1.8550 | 1.6010 |
| Na 330.237 | 62.2200 | 39.3328 | 55.6694 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 0.1315 | -0.8003u | -0.0400u |
| Pb 220.353 | 2.3687 | -0.4081u | 0.3867 |
| Sb 206.834 | 2.5364 | 4.4812 | 2.0257 |
| Se 196.026 | 1.8937 | -2.1052u | 5.7917 |
| Sn 189.925 | 2.5214 | 1.9978 | 0.0146 |
| Sr 216.596 | 0.2030 | 0.0994 | 0.1453 |
| Ti 334.941 | 0.1158 | 0.0849 | 0.1453 |
| Tl 190.794 | 0.7673 | 3.1239 | 1.4102 |
| V 292.401 | -0.0500u | 0.0445 | 0.4203 |
| Zn 206.200 | 1.0689 | 2.5345 | 0.5695 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | -0.1613 | ppb | 0.0962 | 59.6 | -20.6028 | -0.16135 |
| Al 308.215 | 1.5742 | ppb | 0.7299 | 46.4 | 613.878 | 1.57420 |
| As 188.980 | -2.3809 | ppb | 1.9053 | 80.0 | -6.8282 | -2.38092 |
| B 249.678 | 12.5968 | ppb | 1.5921 | 12.6 | 252.235 | 12.59684 |
| Ba 389.178 | 0.3241 | ppb | 0.6742 | 208.0 | -73.6150 | 0.32411 |
| Be 313.042 | 0.0197 | ppb | 0.0018 | 9.4 | -204.451 | 0.01973 |
| Ca 370.602 | 2.757 | ppb | 2.424 | 87.9 | 28.39 | 2.75671 |
| Cd 226.502 | 0.1129 | ppb | 0.0934 | 82.7 | 14.2768 | 0.11293 |
| Co 228.615 | -0.0814 | ppb | 0.1095 | 134.6 | 5.8210 | -0.08136 |
| Cr 267.716 | 0.2830 | ppb | 0.0440 | 15.5 | 49.9630 | 0.28299 |
| Cu 324.754 | 0.6362 | ppb | 0.1159 | 18.2 | 290.386 | 0.63623 |
| Fe 271.441 | 1.4883 | ppb | 1.9335 | 129.9 | 18.3827 | 1.48828 |
| K 766.491 | 1.2938 | ppb | 0.5071 | 39.2 | 301.081 | 1.29380 |
| Mg 279.078 | 1.5418 | ppb | 1.8638 | 120.9 | 27.6841 | 1.54181 |
| Mn 257.610 | 0.3075 | ppb | 0.0185 | 6.0 | 96.7388 | 0.30747 |
| Mo 202.032 | 1.6896 | ppb | 0.1434 | 8.5 | 17.9586 | 1.68957 |
| Na 330.237 | 52.4074 | ppb | 11.7871 | 22.5 | 28.1122 | 52.40743 |
| Ni 231.604 | -0.2363 | ppb | 0.4959 | 209.9 | -6.3737 | -0.23626 |
| Pb 220.353 | 0.7825 | ppb | 1.4301 | 182.8 | 10.7185 | 0.78247 |
| Sb 206.834 | 3.0144 | ppb | 1.2956 | 43.0 | -1.3748 | 3.01442 |
| Se 196.026 | 1.8601 | ppb | 3.9485 | 212.3 | 1.6435 | 1.86007 |
| Sn 189.925 | 1.5113 | ppb | 1.3224 | 87.5 | -4.6039 | 1.51128 |
| Sr 216.596 | 0.1492 | ppb | 0.0519 | 34.8 | 8.2034 | 0.14922 |
| Ti 334.941 | 0.1153 | ppb | 0.0302 | 26.2 | 1.9413 | 0.11535 |
| Tl 190.794 | 1.7671 | ppb | 1.2182 | 68.9 | -5.7168 | 1.76713 |
| V 292.401 | 0.1382 | ppb | 0.2488 | 180.0 | -7.9888 | 0.13824 |
| Zn 206.200 | 1.3910 | ppb | 1.0213 | 73.4 | 1.7696 | 1.39099 |

**CRI (CRI)** **10/17/2014, 4:23:23 PM** **Rack S, Tube 4**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 10.4487 | 10.5524 | 10.5232 |
| Al 308.215 | 206.039 | 211.288 | 209.992 |
| As 188.980 | 19.3160 | 22.8415 | 23.3606 |
| B 249.678 | 107.640 | 107.526 | 108.693 |
| Ba 389.178 | 10.0424 | 10.6697 | 11.4396 |
| Be 313.042 | 4.2223 | 4.2285 | 4.2256 |
| Ca 370.602 | 519.2 | 528.0 | 530.3 |
| Cd 226.502 | 5.3135 | 5.3747 | 5.4341 |
| Co 228.615 | 10.3203 | 10.6051 | 10.6881 |
| Cr 267.716 | 10.6323 | 10.7068 | 10.6293 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 21.9505 | 21.9588 | 21.9530 |
| Fe 271.441 | 53.6196 | 49.8690 | 55.8060 |
| K 766.491 | 1086.50 | 1086.43 | 1090.13 |
| Mg 279.078 | 518.382 | 522.217 | 519.609 |
| Mn 257.610 | 11.2116 | 11.3436 | 11.3636 |
| Mo 202.032 | 10.9463 | 10.8494 | 10.8519 |
| Na 330.237 | 1076.53 | 1042.91 | 1111.90 |
| Ni 231.604 | 42.1402 | 42.7130 | 41.6526 |
| Pb 220.353 | 11.0785 | 11.8572 | 11.9900 |
| Sb 206.834 | 19.5736 | 20.1753 | 21.4738 |
| Se 196.026 | 23.3610 | 18.8400 | 25.4856 |
| Sn 189.925 | 51.2717 | 57.0010 | 53.2754 |
| Sr 216.596 | 10.6200 | 9.8585 | 10.0165 |
| Ti 334.941 | 10.4585 | 10.5157 | 10.5026 |
| Tl 190.794 | 24.9259 | 27.3109 | 24.3824 |
| V 292.401 | 10.5982 | 10.6268 | 10.5587 |
| Zn 206.200 | 21.4311 | 22.4795 | 23.7555 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 10.5081 | ppb | 0.0535 | 0.5 | 889.658 | 105.08080 |
| Al 308.215 | 209.106 | ppb | 2.7341 | 1.3 | 2006.69 | 104.55317 |
| As 188.980 | 21.8394 | ppb | 2.2006 | 10.1 | 9.4717 | 109.19688 |
| B 249.678 | 107.953 | ppb | 0.6433 | 0.6 | 1845.95 | 107.95302 |
| Ba 389.178 | 10.7172 | ppb | 0.6998 | 6.5 | 150.903 | 107.17223 |
| Be 313.042 | 4.2255 | ppb | 0.0031 | 0.1 | 7405.23 | 105.63647 |
| Ca 370.602 | 525.8 | ppb | 5.859 | 1.1 | 1550 | 105.16486 |
| Cd 226.502 | 5.3741 | ppb | 0.0603 | 1.1 | 236.307 | 107.48165 |
| Co 228.615 | 10.5378 | ppb | 0.1929 | 1.8 | 130.576 | 105.37807 |
| Cr 267.716 | 10.6561 | ppb | 0.0439 | 0.4 | 621.022 | 106.56132 |
| Cu 324.754 | 21.9541 | ppb | 0.0042 | 0.0 | 1870.48 | 109.77043 |
| Fe 271.441 | 53.0982 | ppb | 3.0026 | 5.7 | 101.100 | 106.19641 |
| K 766.491 | 1087.69 | ppb | 2.1142 | 0.2 | 48962.3 | 108.76870 |
| Mg 279.078 | 520.069 | ppb | 1.9585 | 0.4 | 1439.86 | 104.01381 |
| Mn 257.610 | 11.3063 | ppb | 0.0826 | 0.7 | 2263.75 | 113.06289 |
| Mo 202.032 | 10.8825 | ppb | 0.0552 | 0.5 | 80.8690 | 108.82536 |
| Na 330.237 | 1077.11 | ppb | 34.4981 | 3.2 | 73.5755 | 107.71150 |
| Ni 231.604 | 42.1686 | ppb | 0.5308 | 1.3 | 126.226 | 105.42154 |
| Pb 220.353 | 11.6419 | ppb | 0.4924 | 4.2 | 27.8302 | 116.41898 |
| Sb 206.834 | 20.4075 | ppb | 0.9711 | 4.8 | 23.4338 | 102.03773 |
| Se 196.026 | 22.5622 | ppb | 3.3941 | 15.0 | 11.3906 | 112.81100 |
| Sn 189.925 | 53.8494 | ppb | 2.9075 | 5.4 | 35.0430 | 107.69877 |
| Sr 216.596 | 10.1650 | ppb | 0.4019 | 4.0 | 131.122 | 101.65001 |
| Ti 334.941 | 10.4923 | ppb | 0.0300 | 0.3 | 3027.20 | 104.92274 |
| Tl 190.794 | 25.5397 | ppb | 1.5577 | 6.1 | 20.8854 | 102.15898 |
| V 292.401 | 10.5946 | ppb | 0.0342 | 0.3 | 263.359 | 105.94558 |
| Zn 206.200 | 22.5554 | ppb | 1.1640 | 5.2 | 24.9909 | 112.77699 |

**CRI (CRI)** **10/17/2014, 4:27:39 PM** **Rack S, Tube 4**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 10.7022 | 10.7341 | 10.8507 |
| Al 308.215 | 205.864 | 209.787 | 208.274 |
| As 188.980 | 20.6927 | 23.0275 | 15.1903 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 107.176 | 107.825 | 107.586 |
| Ba 389.178 | 11.1961 | 11.1816 | 10.5543 |
| Be 313.042 | 4.2233 | 4.2410 | 4.2154 |
| Ca 370.602 | 526.6 | 529.9 | 525.0 |
| Cd 226.502 | 5.2605 | 5.2801 | 5.3422 |
| Co 228.615 | 10.3194 | 10.4025 | 10.2787 |
| Cr 267.716 | 10.5422 | 10.6254 | 10.5921 |
| Cu 324.754 | 22.2802 | 22.1417 | 22.3958 |
| Fe 271.441 | 46.6220 | 52.4247 | 49.3694 |
| K 766.491 | 1090.68 | 1093.54 | 1091.71 |
| Mg 279.078 | 516.068 | 519.533 | 517.682 |
| Mn 257.610 | 11.1902 | 11.2916 | 11.1949 |
| Mo 202.032 | 10.4743 | 11.3061 | 10.0647 |
| Na 330.237 | 1036.77 | 917.708 | 997.894 |
| Ni 231.604 | 41.4156 | 42.4629 | 41.3162 |
| Pb 220.353 | 12.2011 | 11.7500 | 10.1706 |
| Sb 206.834 | 23.3185 | 23.3222 | 22.9954 |
| Se 196.026 | 28.9600 | 18.4482 | 22.8491 |
| Sn 189.925 | 51.9687 | 50.8596 | 53.7944 |
| Sr 216.596 | 10.3942 | 10.2274 | 10.1130 |
| Ti 334.941 | 10.4784 | 10.5452 | 10.4226 |
| Tl 190.794 | 25.7561 | 28.1225 | 24.1720 |
| V 292.401 | 10.7543 | 10.3856 | 10.6363 |
| Zn 206.200 | 22.1699 | 22.8943 | 20.9192 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 10.7623 | ppb | 0.0782 | 0.7 | 911.351 | 107.62323 |
| Al 308.215 | 207.975 | ppb | 1.9788 | 1.0 | 1999.09 | 103.98754 |
| As 188.980 | 19.6368 | ppb | 4.0239 | 20.5 | 7.9894 | 98.18420 |
| B 249.678 | 107.529 | ppb | 0.3281 | 0.3 | 1838.88 | 107.52901 |
| Ba 389.178 | 10.9774 | ppb | 0.3664 | 3.3 | 156.500 | 109.77367 |
| Be 313.042 | 4.2266 | ppb | 0.0131 | 0.3 | 7407.29 | 105.66411 |
| Ca 370.602 | 527.2 | ppb | 2.491 | 0.5 | 1554 | 105.43138 |
| Cd 226.502 | 5.2943 | ppb | 0.0427 | 0.8 | 232.948 | 105.88528 |
| Co 228.615 | 10.3335 | ppb | 0.0631 | 0.6 | 128.188 | 103.33531 |
| Cr 267.716 | 10.5866 | ppb | 0.0419 | 0.4 | 617.195 | 105.86582 |
| Cu 324.754 | 22.2726 | ppb | 0.1272 | 0.6 | 1894.07 | 111.36283 |
| Fe 271.441 | 49.4720 | ppb | 2.9027 | 5.9 | 95.3491 | 98.94408 |
| K 766.491 | 1091.98 | ppb | 1.4475 | 0.1 | 49154.5 | 109.19777 |
| Mg 279.078 | 517.761 | ppb | 1.7336 | 0.3 | 1433.58 | 103.55220 |
| Mn 257.610 | 11.2256 | ppb | 0.0572 | 0.5 | 2247.86 | 112.25568 |
| Mo 202.032 | 10.6150 | ppb | 0.6326 | 6.0 | 79.0377 | 106.14999 |
| Na 330.237 | 984.125 | ppb | 60.7143 | 6.2 | 69.3935 | 98.41246 |
| Ni 231.604 | 41.7316 | ppb | 0.6353 | 1.5 | 124.860 | 104.32894 |
| Pb 220.353 | 11.3739 | ppb | 1.0662 | 9.4 | 27.4083 | 113.73882 |
| Sb 206.834 | 23.2120 | ppb | 0.1876 | 0.8 | 27.4443 | 116.05994 |
| Se 196.026 | 23.4191 | ppb | 5.2791 | 22.5 | 11.7940 | 117.09549 |
| Sn 189.925 | 52.2076 | ppb | 1.4819 | 2.8 | 33.7994 | 104.41514 |
| Sr 216.596 | 10.2449 | ppb | 0.1414 | 1.4 | 132.135 | 102.44857 |
| Ti 334.941 | 10.4820 | ppb | 0.0613 | 0.6 | 3024.22 | 104.82047 |
| Tl 190.794 | 26.0169 | ppb | 1.9881 | 7.6 | 21.4191 | 104.06761 |
| V 292.401 | 10.5921 | ppb | 0.1883 | 1.8 | 263.359 | 105.92060 |
| Zn 206.200 | 21.9945 | ppb | 0.9992 | 4.5 | 24.3745 | 109.97247 |

**Interf Check A (ICSA)** **10/17/2014, 4:32:58 PM** **Rack S, Tube 5**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2044u | 0.1509u | 0.0051u |
| Al 308.215 | 530157 | 530146 | 531187 |
| As 188.980 | -2.3853 | -1.4263 | -1.8557 |
| B 249.678 | -0.4369u | -0.8623u | -1.4389u |
| Ba 389.178 | -2.0531 | -2.9640 | -2.1452 |
| Be 313.042 | -0.1613u | -0.1572u | -0.1552u |
| Ca 370.602 | 498114 | 500862 | 497027 |
| Cd 226.502 | -0.5687 | -0.9026 | -0.5422 |
| Co 228.615 | -0.5152 | -1.1143 | -0.7017 |
| Cr 267.716 | 0.3910 | 0.5937 | 0.3306 |
| Cu 324.754 | 2.0949 | 1.9410 | 1.7563 |
| Fe 271.441 | 188342 | 188201 | 188395 |
| K 766.491 | 4.0240 | 4.3384 | 3.8171 |
| Mg 279.078 | 511757 | 509863 | 508386 |
| Mn 257.610 | 2.9653 | 2.9227 | 2.9254 |
| Mo 202.032 | 1.3721 | 2.7606 | 3.1743 |
| Na 330.237 | -237.064u | -50.5951u | 41.4963u |
| Ni 231.604 | -1.7376 | 0.7419 | -1.9134 |
| Pb 220.353 | 6.1982 | 8.7768 | 7.1968 |
| Sb 206.834 | -1.4929 | -1.1041 | 4.1857 |
| Se 196.026 | -8.1103u | 15.0634 | 0.3350 |
| Sn 189.925 | -0.0723u | -1.9453u | -1.9976u |
| Sr 216.596 | 7.1346 | 6.8668 | 6.7454 |
| Ti 334.941 | 0.9748 | 0.9401 | 0.9784 |
| Tl 190.794 | -9.6737u | -7.2246u | -13.2506u |
| V 292.401 | -4.5886u | -4.6476u | -4.4212u |
| Zn 206.200 | 7.9062u | 10.4364 | 10.6586 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | -0.0161 | ppb | 0.1786 | 1109.7 | -48.5992 | -0.01609 |
| Al 308.215 | 530497 | ppb | 597.964 | 0.1 | 3557202 | - |
| As 188.980 | -1.8891 | ppb | 0.4804 | 25.4 | -2.1275 | -1.88908 |
| B 249.678 | -0.9127 | ppb | 0.5029 | 55.1 | -409.883 | -0.91269 |
| Ba 389.178 | -2.3874 | ppb | 0.5014 | 21.0 | 653.845 | -2.38741 |
| Be 313.042 | -0.1579 | ppb | 0.0031 | 2.0 | -332.369 | -0.15792 |
| Ca 370.602 | 498668 | ppb | 1976 | 0.4 | 1444053 | - |
| Cd 226.502 | -0.6711 | ppb | 0.2009 | 29.9 | 683.609 | -0.67113 |
| Co 228.615 | -0.7771 | ppb | 0.3066 | 39.5 | 10.8184 | -0.77705 |
| Cr 267.716 | 0.4384 | ppb | 0.1378 | 31.4 | 156.066 | 0.43842 |
| Cu 324.754 | 1.9307 | ppb | 0.1696 | 8.8 | 468.583 | 1.93073 |
| Fe 271.441 | 188313 | ppb | 100.134 | 0.1 | 296703 | - |
| K 766.491 | 4.0598 | ppb | 0.2625 | 6.5 | 424.975 | 4.05981 |
| Mg 279.078 | 510002 | ppb | 1689.73 | 0.3 | 1389083 | - |
| Mn 257.610 | 2.9378 | ppb | 0.0238 | 0.8 | 4668.57 | 2.93779 |
| Mo 202.032 | 2.4357 | ppb | 0.9440 | 38.8 | 14.1847 | 2.43569 |
| Na 330.237 | -82.0542 | ppb | 141.920 | 173.0 | -19.6464 | -82.05424 |
| Ni 231.604 | -0.9697 | ppb | 1.4849 | 153.1 | 7.7827 | -0.96970 |
| Pb 220.353 | 7.3906 | ppb | 1.3002 | 17.6 | 26.3000 | 7.39061 |
| Sb 206.834 | 0.5295 | ppb | 3.1723 | 599.1 | 1.1933 | 0.52954 |
| Se 196.026 | 2.4293 | ppb | 11.7280 | 482.8 | 3.6606 | 2.42934 |
| Sn 189.925 | -1.3384 | ppb | 1.0968 | 81.9 | -6.7629 | -1.33837 |
| Sr 216.596 | 6.9156 | ppb | 0.1992 | 2.9 | 512.878 | 6.91562 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ti 334.941 | 0.9644 | ppb | 0.0211 | 2.2 | 1197.83 | 0.96445 |
| Tl 190.794 | -10.0496 | ppb | 3.0306 | 30.2 | -44.7982 | -10.04963 |
| V 292.401 | -4.5525 | ppb | 0.1174 | 2.6 | -60.3435 | -4.55246 |
| Zn 206.200 | 9.6671 | ppb | 1.5290 | 15.8 | 2.1052 | 9.66708 |

**Interf Check AB (ICSAB)** **10/17/2014, 4:37:15 PM** **Rack S, Tube 6**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 222.114 | 222.478 | 221.968 |
| Al 308.215 | 550685 | 551119 | 552127 |
| As 188.980 | 106.360 | 103.094 | 98.2677 |
| B 249.678 | 3.3064u | 3.6731u | 3.3582u |
| Ba 389.178 | 524.209 | 525.740 | 524.997 |
| Be 313.042 | 492.322 | 491.421 | 490.454 |
| Ca 370.602 | 473638 | 477021 | 475100 |
| Cd 226.502 | 980.735 | 980.708 | 980.316 |
| Co 228.615 | 477.238 | 474.837 | 477.911 |
| Cr 267.716 | 491.107 | 491.461 | 491.332 |
| Cu 324.754 | 573.327 | 573.030 | 573.670 |
| Fe 271.441 | 193129 | 193154 | 193247 |
| K 766.491 | 3.3097 | 1.9218 | 1.7120 |
| Mg 279.078 | 521341 | 520436 | 521438 |
| Mn 257.610 | 486.969 | 488.236 | 486.860 |
| Mo 202.032 | 988.875 | 990.421 | 988.459 |
| Na 330.237 | -190.891u | -165.676u | -8.0450u |
| Ni 231.604 | 940.094 | 945.337 | 941.735 |
| Pb 220.353 | 49.0439 | 43.9606 | 52.6785 |
| Sb 206.834 | 652.279 | 652.354 | 654.023 |
| Se 196.026 | 46.3608 | 54.8917 | 55.9817 |
| Sn 189.925 | 985.029 | 998.215 | 989.939 |
| Sr 216.596 | 7.8389 | 8.1031 | 7.4119 |
| Ti 334.941 | 0.3008 | 0.2725 | 0.2561 |
| Tl 190.794 | 84.7052 | 85.3142 | 82.2437 |
| V 292.401 | 472.901 | 473.660 | 473.045 |
| Zn 206.200 | 940.705 | 938.622 | 933.543 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 222.187 | ppb | 0.2628 | 0.1 | 18917.1 | 111.09325 |
| Al 308.215 | 551310 | ppb | 739.675 | 0.1 | 3696844 | 110.26208 |
| As 188.980 | 102.574 | ppb | 4.0711 | 4.0 | 68.1808 | 102.57373 |
| B 249.678 | 3.4459 | ppb | 0.1984 | 5.8 | -342.683 | - |
| Ba 389.178 | 524.982 | ppb | 0.7656 | 0.1 | 12045.6 | 104.99635 |
| Be 313.042 | 491.399 | ppb | 0.9344 | 0.2 | 889052 | 98.27984 |
| Ca 370.602 | 475253 | ppb | 1697 | 0.4 | 1376080 | 95.05059 |
| Cd 226.502 | 980.587 | ppb | 0.2345 | 0.0 | 42082.6 | 98.05867 |
| Co 228.615 | 476.662 | ppb | 1.6159 | 0.3 | 5594.17 | 95.33237 |
| Cr 267.716 | 491.300 | ppb | 0.1791 | 0.0 | 27171.1 | 98.25999 |
| Cu 324.754 | 573.342 | ppb | 0.3199 | 0.1 | 42852.3 | 114.66848 |
| Fe 271.441 | 193177 | ppb | 62.0416 | 0.0 | 304431 | 96.58853 |
| K 766.491 | 2.3145 | ppb | 0.8682 | 37.5 | 346.800 | - |
| Mg 279.078 | 521072 | ppb | 553.023 | 0.1 | 1419214 | 104.21433 |
| Mn 257.610 | 487.355 | ppb | 0.7648 | 0.2 | 100117 | 97.47102 |
| Mo 202.032 | 989.252 | ppb | 1.0341 | 0.1 | 6767.93 | 98.92519 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Na 330.237 | -121.537 | ppb | 99.0925 | 81.5 | -44.7624 | - |
| Ni 231.604 | 942.389 | ppb | 2.6822 | 0.3 | 2957.50 | 94.23888 |
| Pb 220.353 | 48.5610 | ppb | 4.3790 | 9.0 | 90.1730 | 97.12199 |
| Sb 206.834 | 652.885 | ppb | 0.9857 | 0.2 | 921.593 | 108.81422 |
| Se 196.026 | 52.4114 | ppb | 5.2683 | 10.1 | 27.3682 | 104.82281 |
| Sn 189.925 | 991.061 | ppb | 6.6643 | 0.7 | 744.989 | 99.10609 |
| Sr 216.596 | 7.7846 | ppb | 0.3488 | 4.5 | 501.107 | - |
| Ti 334.941 | 0.2765 | ppb | 0.0226 | 8.2 | 1039.15 | - |
| Tl 190.794 | 84.0877 | ppb | 1.6257 | 1.9 | 58.6602 | 84.08768 |
| V 292.401 | 473.202 | ppb | 0.4030 | 0.1 | 12236.2 | 94.64040 |
| Zn 206.200 | 937.623 | ppb | 3.6838 | 0.4 | 1019.87 | 93.76234 |

**LRA1 (Samp)** **10/17/2014, 4:41:33 PM** **Rack S, Tube 7**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2614 | -0.2139 | -0.2317 |
| Al 308.215 | 68.9066 | 68.0641 | 64.9722 |
| As 188.980 | 19660.8x | 19625.2x | 19863.9x |
| B 249.678 | 4934.60 | 4971.06 | 4992.78 |
| Ba 389.178 | -0.4594u | 0.6139 | 0.4411 |
| Be 313.042 | 0.0779 | 0.0835 | 0.0819 |
| Ca 370.602 | -439.8 | -453.1 | -466.4 |
| Cd 226.502 | -3.1179u | -3.2039u | -3.2751u |
| Co 228.615 | 9820.96 | 9847.85 | 9862.58 |
| Cr 267.716 | -1.3945 | -1.2058 | -1.3089 |
| Cu 324.754 | -3.9851u | -4.2501u | -4.2318u |
| Fe 271.441 | -35.1177 | -46.0091 | -34.1341 |
| K 766.491 | 2.5307 | 3.0261 | 2.9815 |
| Mg 279.078 | 40.7137u | 39.4557u | 34.9906u |
| Mn 257.610 | 25761.8 | 25921.0 | 25894.2 |
| Mo 202.032 | 2.6793 | 1.8566 | 2.2502 |
| Na 330.237 | 1403.99 | 1517.03 | 1223.99u |
| Ni 231.604 | 10162.4x | 10185.5x | 10170.1x |
| Pb 220.353 | 21010.1x | 21003.1x | 20986.7x |
| Sb 206.834 | 8.8342 | 5.9628 | 6.1384 |
| Se 196.026 | -7.6311 | 0.0132 | -6.8760 |
| Sn 189.925 | 3.5566 | -3.3034u | 5.9781 |
| Sr 216.596 | 2.0161u | 1.6019u | 1.5955u |
| Ti 334.941 | 30648.0x | 30628.7x | 30646.6x |
| Tl 190.794 | 9.3123 | 4.2779 | 5.6098 |
| V 292.401 | -14.1259 | -14.1973 | -13.9330 |
| Zn 206.200 | 3.5273 | 3.5651 | 3.0965 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.2357b | ppb | 0.0240 | 10.2 | 118.404 |
| Al 308.215 | 67.3143b | ppb | 2.0716 | 3.1 | 989.444 |
| As 188.980 | 19716.7xb | ppb | 128.778 | 0.7 | 13264.5 |
| B 249.678 | 4966.15b | ppb | 29.4017 | 0.6 | 83033.4 |
| Ba 389.178 | 0.1985b | ppb | 0.5763 | 290.3 | -76.1389 |
| Be 313.042 | 0.0811b | ppb | 0.0029 | 3.6 | -109.270 |
| Ca 370.602 | -453.1b | ppb | 13.30 | 2.9 | 13303 |
| Cd 226.502 | -3.1990b | ppb | 0.0787 | 2.5 | -122.236 |
| Co 228.615 | 9843.80b | ppb | 21.1071 | 0.2 | 116368 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | -1.3031b | ppb | 0.0945 | 7.3 | 168.148 |
| Cu 324.754 | -4.1557b | ppb | 0.1480 | 3.6 | -64.7986 |
| Fe 271.441 | -38.4202b | ppb | 6.5905 | 17.2 | 1181.53 |
| K 766.491 | 2.8461b | ppb | 0.2741 | 9.6 | 370.611 |
| Mg 279.078 | 38.3866b | ppb | 3.0076 | 7.8 | -445.439 |
| Mn 257.610 | 25859.0b | ppb | 85.2766 | 0.3 | 5086026 |
| Mo 202.032 | 2.2620b | ppb | 0.4115 | 18.2 | 21.8284 |
| Na 330.237 | 1381.67b | ppb | 147.789 | 10.7 | 29.5460 |
| Ni 231.604 | 10172.7xb | ppb | 11.7261 | 0.1 | 31784.3 |
| Pb 220.353 | 21000.0xb | ppb | 11.9717 | 0.1 | 33106.5 |
| Sb 206.834 | 6.9784b | ppb | 1.6095 | 23.1 | 4.3149 |
| Se 196.026 | -4.8313b | ppb | 4.2124 | 87.2 | 5.0199 |
| Sn 189.925 | 2.0771b | ppb | 4.8144 | 231.8 | -4.1758 |
| Sr 216.596 | 1.7378b | ppb | 0.2410 | 13.9 | -259.188 |
| Ti 334.941 | 30641.1xb | ppb | 10.7578 | 0.0 | 8930477 |
| Tl 190.794 | 6.4000b | ppb | 2.6086 | 40.8 | 45.7562 |
| V 292.401 | -14.0854b | ppb | 0.1367 | 1.0 | 84.6788 |
| Zn 206.200 | 3.3963b | ppb | 0.2603 | 7.7 | 3.9337 |

**LRA2 (Samp)** **10/17/2014, 4:45:51 PM** **Rack S, Tube 8**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0061u | 0.4789u | 0.0375u |
| Al 308.215 | 838448 | 875804x | 874482x |
| As 188.980 | 100.459 | 70.3009 | 38.3393 |
| B 249.678 | 81.2937u | 72.1026u | 59.7615u |
| Ba 389.178 | 2.0049 | 3.1555 | 1.2177 |
| Be 313.042 | -0.2511u | -0.2539u | -0.2496u |
| Ca 370.602 | 750163 | 752923 | 751330 |
| Cd 226.502 | 8.9419 | 10.3076 | 10.4225 |
| Co 228.615 | -10.2233u | -11.6987u | -11.8991u |
| Cr 267.716 | -5.5220 | -5.1741 | -5.3223 |
| Cu 324.754 | 2.1734 | 1.7408 | 1.8678 |
| Fe 271.441 | 934315 | 934341 | 934826 |
| K 766.491 | 17.4855 | 17.0142 | 16.8835 |
| Mg 279.078 | 800464 | 802466 | 798868 |
| Mn 257.610 | 5.3327 | 4.9175 | 4.7325 |
| Mo 202.032 | 4.2533u | 1.1921u | 4.3525u |
| Na 330.237 | -132.730u | -256.470u | -439.496u |
| Ni 231.604 | -17.3323 | -20.2166 | -18.1372 |
| Pb 220.353 | 12.0325 | 6.3144 | 4.4413 |
| Sb 206.834 | -5.8025 | 10.8573 | -1.7844 |
| Se 196.026 | -15.8681 | -18.7780u | -8.9282 |
| Sn 189.925 | 10.4646 | 0.1377 | 4.1846 |
| Sr 216.596 | 11.6729 | 10.0377 | 10.0407 |
| Ti 334.941 | 8.6644 | 8.0077 | 7.5260 |
| Tl 190.794 | -34.5589u | -38.2026u | -33.4776u |
| V 292.401 | -29.9609u | -30.5199u | -30.2948u |
| Zn 206.200 | 15.3973u | 15.3850u | 16.4627u |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.1701b | ppb | 0.2683 | 157.8 | -167.782 |
| Al 308.215 | 862911xb | ppb | 21196.2 | 2.5 | 5786868 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 69.6998b | ppb | 31.0643 | 44.6 | 44.7819 |
| B 249.678 | 71.0526b | ppb | 10.8045 | 15.2 | -950.119 |
| Ba 389.178 | 2.1260b | ppb | 0.9745 | 45.8 | 1563.25 |
| Be 313.042 | -0.2515b | ppb | 0.0022 | 0.9 | -403.481 |
| Ca 370.602 | 751472b | ppb | 1385 | 0.2 | 2168086 |
| Cd 226.502 | 9.8907b | ppb | 0.8237 | 8.3 | 3909.66 |
| Co 228.615 | -11.2737b | ppb | 0.9152 | 8.1 | -60.0558 |
| Cr 267.716 | -5.3394b | ppb | 0.1746 | 3.3 | 207.461 |
| Cu 324.754 | 1.9273b | ppb | 0.2223 | 11.5 | 796.958 |
| Fe 271.441 | 934494b | ppb | 287.739 | 0.0 | 1472310 |
| K 766.491 | 17.1277b | ppb | 0.3166 | 1.8 | 1010.31 |
| Mg 279.078 | 800599b | ppb | 1802.73 | 0.2 | 2180546 |
| Mn 257.610 | 4.9942b | ppb | 0.3074 | 6.2 | 9248.61 |
| Mo 202.032 | 3.2660b | ppb | 1.7967 | 55.0 | -15.5913 |
| Na 330.237 | -276.232b | ppb | 154.335 | 55.9 | -194.437 |
| Ni 231.604 | -18.5620b | ppb | 1.4883 | 8.0 | 17.7093 |
| Pb 220.353 | 7.5960b | ppb | 3.9545 | 52.1 | 71.9051 |
| Sb 206.834 | 1.0901b | ppb | 8.6939 | 797.5 | 26.3758 |
| Se 196.026 | -14.5248b | ppb | 5.0605 | 34.8 | 2.6514 |
| Sn 189.925 | 4.9290b | ppb | 5.2035 | 105.6 | -2.0169 |
| Sr 216.596 | 10.5838b | ppb | 0.9432 | 8.9 | 1588.77 |
| Ti 334.941 | 8.0660b | ppb | 0.5715 | 7.1 | 3917.15 |
| Tl 190.794 | -35.4130b | ppb | 2.4756 | 7.0 | -176.543 |
| V 292.401 | -30.2585b | ppb | 0.2813 | 0.9 | -459.224 |
| Zn 206.200 | 15.7483b | ppb | 0.6187 | 3.9 | -26.1714 |

**LRA3 (Samp)** **10/17/2014, 4:50:10 PM** **Rack S, Tube 9**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0951u | -0.1667u | -0.1194u |
| Al 308.215 | 42.3363 | 38.2425 | 36.0960 |
| As 188.980 | 11.7167 | 10.2444 | 11.2437 |
| B 249.678 | 18.3143 | 17.1732 | 15.2815 |
| Ba 389.178 | 0.4023 | 0.6056 | 0.3143 |
| Be 313.042 | -0.0309u | -0.0347u | -0.0300u |
| Ca 370.602 | 54.15 | 49.16 | 48.68 |
| Cd 226.502 | 0.2018 | 0.0864 | 0.3996 |
| Co 228.615 | 0.0907 | 0.0187 | -0.0278u |
| Cr 267.716 | -0.0042 | 0.1227 | 0.0120 |
| Cu 324.754 | 0.4983 | 0.5902 | 0.4640 |
| Fe 271.441 | 56.1671 | 46.4170 | 52.8413 |
| K 766.491 | 40792.2x | 40565.3x | 40056.7x |
| Mg 279.078 | 44.5538 | 43.2825 | 42.1565 |
| Mn 257.610 | 0.6832 | 0.6182 | 0.5797 |
| Mo 202.032 | 0.8007 | 0.9642 | 0.3340 |
| Na 330.237 | 109804 | 109445 | 108031 |
| Ni 231.604 | 0.6759 | 0.9811 | -0.7596u |
| Pb 220.353 | 1.6404 | -0.9528u | 2.3608 |
| Sb 206.834 | 5.2629 | 2.7739 | 3.8800 |
| Se 196.026 | -3.6965u | 3.0662 | 0.2195 |
| Sn 189.925 | 3.2309 | 1.5948 | -0.0534u |
| Sr 216.596 | -0.1296u | 0.5366 | 0.0678 |
| Ti 334.941 | 1.1134 | 1.0286 | 1.0317 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 0.3481 | 0.7601 | 3.2193 |
| V 292.401 | -0.1328u | -0.1124u | -0.2679u |
| Zn 206.200 | 29567.6x | 29427.2x | 29138.8x |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1271b | ppb | 0.0364 | 28.6 | -17.6891 |
| Al 308.215 | 38.8916b | ppb | 3.1703 | 8.2 | 864.035 |
| As 188.980 | 11.0683b | ppb | 0.7517 | 6.8 | 2.2237 |
| B 249.678 | 16.9230b | ppb | 1.5318 | 9.1 | 324.533 |
| Ba 389.178 | 0.4407b | ppb | 0.1494 | 33.9 | -71.0238 |
| Be 313.042 | -0.0319b | ppb | 0.0025 | 7.9 | -308.518 |
| Ca 370.602 | 50.66b | ppb | 3.030 | 6.0 | 167.1 |
| Cd 226.502 | 0.2293b | ppb | 0.1584 | 69.1 | 18.7627 |
| Co 228.615 | 0.0272b | ppb | 0.0597 | 219.7 | 7.1746 |
| Cr 267.716 | 0.0435b | ppb | 0.0691 | 158.6 | 38.2003 |
| Cu 324.754 | 0.5175b | ppb | 0.0652 | 12.6 | 281.578 |
| Fe 271.441 | 51.8085b | ppb | 4.9564 | 9.6 | 97.6913 |
| K 766.491 | 40471.4xb | ppb | 376.611 | 0.9 | 1813018 |
| Mg 279.078 | 43.3309b | ppb | 1.1994 | 2.8 | 141.497 |
| Mn 257.610 | 0.6270b | ppb | 0.0523 | 8.3 | 159.585 |
| Mo 202.032 | 0.6996b | ppb | 0.3270 | 46.7 | 11.1805 |
| Na 330.237 | 109093b | ppb | 937.080 | 0.9 | 4225.52 |
| Ni 231.604 | 0.2991b | ppb | 0.9295 | 310.7 | -4.6616 |
| Pb 220.353 | 1.0161b | ppb | 1.7428 | 171.5 | 11.0904 |
| Sb 206.834 | 3.9722b | ppb | 1.2471 | 31.4 | 0.0083 |
| Se 196.026 | -0.1369b | ppb | 3.3954 | 2479.7 | 0.7041 |
| Sn 189.925 | 1.5908b | ppb | 1.6422 | 103.2 | -4.5123 |
| Sr 216.596 | 0.1582b | ppb | 0.3422 | 216.3 | 8.4009 |
| Ti 334.941 | 1.0579b | ppb | 0.0481 | 4.5 | 268.874 |
| Tl 190.794 | 1.4425b | ppb | 1.5525 | 107.6 | -6.0834 |
| V 292.401 | -0.1710b | ppb | 0.0845 | 49.4 | -16.6110 |
| Zn 206.200 | 29377.8xb | ppb | 218.603 | 0.7 | 32281.6 |

**Cont Calib Verif (CCV)** **10/17/2014, 4:56:11 PM** **Rack 1, Tube 37**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 495.122 | 498.009 | 497.984 |
| Al 308.215 | 4859.20 | 4828.75 | 4850.02 |
| As 188.980 | 466.422 | 455.216 | 459.296 |
| B 249.678 | 494.366 | 495.650 | 498.941 |
| Ba 389.178 | 5036.48 | 5012.69 | 5030.30 |
| Be 313.042 | 498.263 | 495.793 | 497.704 |
| Ca 370.602 | 4907 | 4914 | 4961 |
| Cd 226.502 | 505.497 | 503.459 | 504.303 |
| Co 228.615 | 501.617 | 500.263 | 503.572 |
| Cr 267.716 | 4989.27 | 4974.40 | 4998.91 |
| Cu 324.754 | 4989.83 | 4961.15 | 4965.24 |
| Fe 271.441 | 4964.18 | 4942.04 | 4945.86 |
| K 766.491 | 10049.6 | 9994.53 | 10021.2 |
| Mg 279.078 | 4901.00 | 4898.28 | 4919.68 |
| Mn 257.610 | 5031.79 | 4999.54 | 5043.45 |
| Mo 202.032 | 494.563 | 493.778 | 494.944 |
| Na 330.237 | 7386.89 | 7569.44 | 7752.21 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 2530.91 | 2523.30 | 2541.33 |
| Pb 220.353 | 504.027 | 503.634 | 506.960 |
| Sb 206.834 | 954.563 | 942.886 | 935.648 |
| Se 196.026 | 4897.28 | 4858.82 | 4891.30 |
| Sn 189.925 | 4960.46 | 5006.28 | 5020.64 |
| Sr 216.596 | 2513.63 | 2504.24 | 2514.84 |
| Ti 334.941 | 494.055 | 491.627 | 493.865 |
| Tl 190.794 | 5031.69 | 5017.71 | 5048.27 |
| V 292.401 | 4907.56 | 4895.04 | 4925.97 |
| Zn 206.200 | 2505.85 | 2493.65 | 2510.54 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 497.038 | ppb | 1.6594 | 0.3 | 42361.6 | 99.40765 |
| Al 308.215 | 4845.99 | ppb | 15.6182 | 0.3 | 33614.6 | 96.91978 |
| As 188.980 | 460.311 | ppb | 5.6715 | 1.2 | 304.449 | 92.06229 |
| B 249.678 | 496.319 | ppb | 2.3602 | 0.5 | 8338.71 | 99.26381 |
| Ba 389.178 | 5026.49 | ppb | 12.3460 | 0.2 | 108144 | 100.52979 |
| Be 313.042 | 497.253 | ppb | 1.2951 | 0.3 | 899759 | 99.45068 |
| Ca 370.602 | 4927 | ppb | 29.64 | 0.6 | 14648 | 98.54889 |
| Cd 226.502 | 504.420 | ppb | 1.0238 | 0.2 | 21297.1 | 100.88394 |
| Co 228.615 | 501.817 | ppb | 1.6631 | 0.3 | 5909.83 | 100.36347 |
| Cr 267.716 | 4987.53 | ppb | 12.3478 | 0.2 | 274598 | 99.75055 |
| Cu 324.754 | 4972.07 | ppb | 15.5153 | 0.3 | 368668 | 99.44141 |
| Fe 271.441 | 4950.69 | ppb | 11.8335 | 0.2 | 7927.47 | 99.01387 |
| K 766.491 | 10021.8 | ppb | 27.5468 | 0.3 | 449134 | 100.21785 |
| Mg 279.078 | 4906.32 | ppb | 11.6486 | 0.2 | 13281.5 | 98.12635 |
| Mn 257.610 | 5024.93 | ppb | 22.7431 | 0.5 | 988394 | 100.49854 |
| Mo 202.032 | 494.428 | ppb | 0.5948 | 0.1 | 3385.01 | 98.88570 |
| Na 330.237 | 7569.51 | ppb | 182.661 | 2.4 | 305.272 | 100.92684 |
| Ni 231.604 | 2531.85 | ppb | 9.0540 | 0.4 | 7911.92 | 101.27390 |
| Pb 220.353 | 504.874 | ppb | 1.8174 | 0.4 | 809.839 | 100.97472 |
| Sb 206.834 | 944.365 | ppb | 9.5438 | 1.0 | 1393.46 | 94.43653 |
| Se 196.026 | 4882.47 | ppb | 20.6950 | 0.4 | 2300.10 | 97.64931 |
| Sn 189.925 | 4995.79 | ppb | 31.4334 | 0.6 | 3778.61 | 99.91583 |
| Sr 216.596 | 2510.90 | ppb | 5.8000 | 0.2 | 31012.6 | 100.43613 |
| Ti 334.941 | 493.182 | ppb | 1.3500 | 0.3 | 143718 | 98.63647 |
| Tl 190.794 | 5032.56 | ppb | 15.2946 | 0.3 | 5630.40 | 100.65115 |
| V 292.401 | 4909.52 | ppb | 15.5585 | 0.3 | 127937 | 98.19046 |
| Zn 206.200 | 2503.35 | ppb | 8.7171 | 0.3 | 2734.99 | 100.13390 |

**Cont Calib Blank (CCB)** **10/17/2014, 5:00:25 PM** **Rack 1, Tube 38**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0140 | 0.0699 | -0.1587u |
| Al 308.215 | -10.1583u | -8.1813u | -7.8248u |
| As 188.980 | 2.6350 | 3.3481 | 3.1447 |
| B 249.678 | 11.8012 | 11.1743 | 9.9746 |
| Ba 389.178 | 0.8012 | 0.8124 | 1.1690 |
| Be 313.042 | 0.0064 | 0.0179 | 0.0306 |
| Ca 370.602 | 3.137 | 4.544 | 6.473 |
| Cd 226.502 | 0.1738 | 0.1407 | 0.3464 |
| Co 228.615 | 0.0947 | -0.0549u | 0.0635 |
| Cr 267.716 | 0.7430 | 0.8816 | 0.9150 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 0.5988 | 1.1312 | 0.8458 |
| Fe 271.441 | 3.7082 | -0.5427u | 2.8079 |
| K 766.491 | 2.1350 | 1.9274 | 2.6734 |
| Mg 279.078 | 2.4478 | 3.0471 | 2.6438 |
| Mn 257.610 | 0.6666 | 0.8913 | 0.9524 |
| Mo 202.032 | 1.7272 | 1.1169 | 1.2984 |
| Na 330.237 | 80.8819 | 23.9769 | 42.0237 |
| Ni 231.604 | -0.3938u | 0.9476 | 0.9869 |
| Pb 220.353 | -0.2986u | 1.3958 | -1.1732u |
| Sb 206.834 | 4.6177 | 1.9235 | 1.7094 |
| Se 196.026 | 0.9722 | 6.8848 | 0.8630 |
| Sn 189.925 | 1.9433 | 1.9572 | 0.4498 |
| Sr 216.596 | 0.8119 | 0.0203 | 0.2515 |
| Ti 334.941 | 0.2385 | 0.2648 | 0.2125 |
| Tl 190.794 | -0.0389u | 2.5750 | -1.2581u |
| V 292.401 | 0.5045 | 0.8774 | 0.9091 |
| Zn 206.200 | 0.7183 | 2.3870 | 2.8023 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | -0.0249 | ppb | 0.1192 | 478.2 | -8.9690 | -0.02493 |
| Al 308.215 | -8.7215 | ppb | 1.2570 | 14.4 | 544.905 | -8.72147 |
| As 188.980 | 3.0426 | ppb | 0.3673 | 12.1 | -3.1782 | 3.04258 |
| B 249.678 | 10.9834 | ppb | 0.9281 | 8.5 | 225.238 | 10.98337 |
| Ba 389.178 | 0.9275 | ppb | 0.2092 | 22.6 | -60.6223 | 0.92754 |
| Be 313.042 | 0.0183 | ppb | 0.0121 | 66.0 | -206.925 | 0.01832 |
| Ca 370.602 | 4.718 | ppb | 1.675 | 35.5 | 34.13 | 4.71814 |
| Cd 226.502 | 0.2203 | ppb | 0.1105 | 50.1 | 18.8135 | 0.22033 |
| Co 228.615 | 0.0344 | ppb | 0.0789 | 229.3 | 7.1942 | 0.03443 |
| Cr 267.716 | 0.8465 | ppb | 0.0912 | 10.8 | 80.9861 | 0.84652 |
| Cu 324.754 | 0.8586 | ppb | 0.2664 | 31.0 | 306.849 | 0.85863 |
| Fe 271.441 | 1.9911 | ppb | 2.2401 | 112.5 | 19.1990 | 1.99113 |
| K 766.491 | 2.2453 | ppb | 0.3850 | 17.1 | 343.699 | 2.24526 |
| Mg 279.078 | 2.7129 | ppb | 0.3055 | 11.3 | 30.8662 | 2.71290 |
| Mn 257.610 | 0.8367 | ppb | 0.1505 | 18.0 | 200.853 | 0.83675 |
| Mo 202.032 | 1.3808 | ppb | 0.3134 | 22.7 | 15.8447 | 1.38085 |
| Na 330.237 | 48.9609 | ppb | 29.0798 | 59.4 | 27.9457 | 48.96087 |
| Ni 231.604 | 0.5136 | ppb | 0.7860 | 153.0 | -4.0288 | 0.51356 |
| Pb 220.353 | -0.0253 | ppb | 1.3061 | 5162.9 | 9.4461 | -0.02530 |
| Sb 206.834 | 2.7502 | ppb | 1.6208 | 58.9 | -1.7400 | 2.75022 |
| Se 196.026 | 2.9067 | ppb | 3.4456 | 118.5 | 2.1362 | 2.90665 |
| Sn 189.925 | 1.4501 | ppb | 0.8663 | 59.7 | -4.6502 | 1.45009 |
| Sr 216.596 | 0.3612 | ppb | 0.4070 | 112.7 | 10.8189 | 0.36119 |
| Ti 334.941 | 0.2386 | ppb | 0.0261 | 11.0 | 37.8640 | 0.23859 |
| Tl 190.794 | 0.4260 | ppb | 1.9584 | 459.7 | -7.2142 | 0.42599 |
| V 292.401 | 0.7636 | ppb | 0.2250 | 29.5 | 8.3669 | 0.76365 |
| Zn 206.200 | 1.9692 | ppb | 1.1030 | 56.0 | 2.4030 | 1.96918 |

**mb 680-353769/1-a (Samp)** **10/17/2014, 5:04:40 PM** **Rack 1, Tube 39**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0308u | 0.0232 | 0.0563 |
| Al 308.215 | -8.1409u | -8.6430u | -7.3708u |
| As 188.980 | -0.1196u | -1.9328u | -3.9046u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 4.9209 | 4.4836 | 4.6079 |
| Ba 389.178 | 1.7671 | 1.5048 | 1.5485 |
| Be 313.042 | -0.0232u | -0.0277u | -0.0293u |
| Ca 370.602 | 4.351 | 3.946 | 0.8075 |
| Cd 226.502 | 0.1923 | 0.3172 | 0.0922 |
| Co 228.615 | 0.2476 | 0.1712 | -0.4272u |
| Cr 267.716 | 0.4374 | 0.0186 | -0.0774u |
| Cu 324.754 | 0.3550 | 0.1662 | 0.0189 |
| Fe 271.441 | 5.0033 | 3.2749 | 6.9261 |
| K 766.491 | 1.6795 | 1.2607 | 1.2171 |
| Mg 279.078 | 4.0913 | 1.3095 | 2.9769 |
| Mn 257.610 | 0.2982 | 0.2795 | 0.2424 |
| Mo 202.032 | -0.0658u | -0.0060u | 0.5651 |
| Na 330.237 | 296.038 | 192.473 | 154.512 |
| Ni 231.604 | -0.2976u | 0.0457 | 0.6192 |
| Pb 220.353 | -1.5695u | 1.0442 | 1.7401 |
| Sb 206.834 | -0.2259u | 0.3103 | 0.7788 |
| Se 196.026 | 0.8447 | -3.0022u | 3.1495 |
| Sn 189.925 | -0.6576u | -2.0360u | -2.0672u |
| Sr 216.596 | -0.0384u | -0.3868u | 0.3606 |
| Ti 334.941 | 0.0705 | 0.1146 | 0.0818 |
| Tl 190.794 | 0.1244 | -0.7275u | 1.4164 |
| V 292.401 | -0.1753u | -0.0745u | 0.2955 |
| Zn 206.200 | 3.5390 | 4.3050 | 3.1443 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0162 | ppb | 0.0440 | 270.5 | -5.4483 |
| Al 308.215 | -8.0516 | ppb | 0.6407 | 8.0 | 549.261 |
| As 188.980 | -1.9857 | ppb | 1.8931 | 95.3 | -6.5619 |
| B 249.678 | 4.6708 | ppb | 0.2254 | 4.8 | 119.718 |
| Ba 389.178 | 1.6068 | ppb | 0.1405 | 8.7 | -46.0081 |
| Be 313.042 | -0.0267 | ppb | 0.0031 | 11.7 | -288.259 |
| Ca 370.602 | 3.035 | ppb | 1.939 | 63.9 | 29.18 |
| Cd 226.502 | 0.2006 | ppb | 0.1127 | 56.2 | 17.9751 |
| Co 228.615 | -0.0028 | ppb | 0.3695 | 13147.1 | 6.7880 |
| Cr 267.716 | 0.1262 | ppb | 0.2737 | 216.9 | 41.3334 |
| Cu 324.754 | 0.1800 | ppb | 0.1684 | 93.6 | 256.516 |
| Fe 271.441 | 5.0681 | ppb | 1.8265 | 36.0 | 24.0322 |
| K 766.491 | 1.3858 | ppb | 0.2553 | 18.4 | 305.201 |
| Mg 279.078 | 2.7926 | ppb | 1.4000 | 50.1 | 31.0962 |
| Mn 257.610 | 0.2734 | ppb | 0.0284 | 10.4 | 90.0400 |
| Mo 202.032 | 0.1644 | ppb | 0.3483 | 211.8 | 7.5193 |
| Na 330.237 | 214.341 | ppb | 73.2537 | 34.2 | 35.3338 |
| Ni 231.604 | 0.1225 | ppb | 0.4632 | 378.3 | -5.2520 |
| Pb 220.353 | 0.4049 | ppb | 1.7450 | 430.9 | 10.1254 |
| Sb 206.834 | 0.2877 | ppb | 0.5027 | 174.7 | -5.2431 |
| Se 196.026 | 0.3307 | ppb | 3.1079 | 939.8 | 0.9236 |
| Sn 189.925 | -1.5869 | ppb | 0.8050 | 50.7 | -6.9507 |
| Sr 216.596 | -0.0215 | ppb | 0.3740 | 1736.7 | 6.0963 |
| Ti 334.941 | 0.0890 | ppb | 0.0229 | 25.8 | -5.7553 |
| Tl 190.794 | 0.2711 | ppb | 1.0794 | 398.1 | -7.3843 |
| V 292.401 | 0.0153 | ppb | 0.2479 | 1625.3 | -10.9542 |
| Zn 206.200 | 3.6628 | ppb | 0.5902 | 16.1 | 4.2663 |

**llcs 680-353769/2-a (Samp)** **10/17/2014, 5:08:55 PM** **Rack 1, Tube 40**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 11.1521 | 10.7660 | 10.4461 |
| Al 308.215 | 202.780 | 203.377 | 202.987 |
| As 188.980 | 21.5529 | 21.9203 | 20.7166 |
| B 249.678 | 106.016 | 104.749 | 106.086 |
| Ba 389.178 | 11.0547 | 11.4098 | 10.7081 |
| Be 313.042 | 4.1286 | 4.1230 | 4.1249 |
| Ca 370.602 | 503.0 | 509.1 | 501.6 |
| Cd 226.502 | 5.5393 | 5.6315 | 5.4626 |
| Co 228.615 | 10.3094 | 10.7308 | 10.4092 |
| Cr 267.716 | 10.5409 | 10.7714 | 10.6226 |
| Cu 324.754 | 21.8330 | 21.8572 | 21.9388 |
| Fe 271.441 | 58.8343 | 53.9684 | 55.7514 |
| K 766.491 | 1101.69 | 1108.73 | 1106.97 |
| Mg 279.078 | 517.159 | 520.178 | 521.641 |
| Mn 257.610 | 10.8430 | 10.8295 | 10.6964 |
| Mo 202.032 | 10.7296 | 10.6939 | 10.1207 |
| Na 330.237 | 1112.61 | 1114.61 | 1074.50 |
| Ni 231.604 | 44.3518 | 42.5245 | 40.8853 |
| Pb 220.353 | 10.8638 | 11.8310 | 13.3919 |
| Sb 206.834 | 20.8079 | 25.1816 | 22.6606 |
| Se 196.026 | 24.0643 | 18.6986 | 22.5034 |
| Sn 189.925 | 54.4696 | 53.8008 | 55.5931 |
| Sr 216.596 | 10.3729 | 10.8423 | 10.5211 |
| Ti 334.941 | 10.6499 | 10.6606 | 10.6327 |
| Tl 190.794 | 27.4042 | 25.3509 | 25.1605 |
| V 292.401 | 10.0255 | 10.1471 | 10.0873 |
| Zn 206.200 | 24.4211 | 25.2101 | 25.0331 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 10.7881 | ppb | 0.3535 | 3.3 | 913.521 |
| Al 308.215 | 203.048 | ppb | 0.3029 | 0.1 | 1966.06 |
| As 188.980 | 21.3966 | ppb | 0.6169 | 2.9 | 9.1737 |
| B 249.678 | 105.617 | ppb | 0.7528 | 0.7 | 1806.92 |
| Ba 389.178 | 11.0575 | ppb | 0.3508 | 3.2 | 158.245 |
| Be 313.042 | 4.1255 | ppb | 0.0028 | 0.1 | 7224.31 |
| Ca 370.602 | 504.6 | ppb | 3.967 | 0.8 | 1488 |
| Cd 226.502 | 5.5445 | ppb | 0.0846 | 1.5 | 243.511 |
| Co 228.615 | 10.4831 | ppb | 0.2202 | 2.1 | 129.945 |
| Cr 267.716 | 10.6450 | ppb | 0.1168 | 1.1 | 620.414 |
| Cu 324.754 | 21.8763 | ppb | 0.0555 | 0.3 | 1864.72 |
| Fe 271.441 | 56.1847 | ppb | 2.4617 | 4.4 | 105.956 |
| K 766.491 | 1105.80 | ppb | 3.6671 | 0.3 | 49773.4 |
| Mg 279.078 | 519.659 | ppb | 2.2858 | 0.4 | 1438.75 |
| Mn 257.610 | 10.7896 | ppb | 0.0810 | 0.8 | 2162.22 |
| Mo 202.032 | 10.5147 | ppb | 0.3417 | 3.3 | 78.3515 |
| Na 330.237 | 1100.57 | ppb | 22.6014 | 2.1 | 74.5566 |
| Ni 231.604 | 42.5872 | ppb | 1.7341 | 4.1 | 127.536 |
| Pb 220.353 | 12.0289 | ppb | 1.2756 | 10.6 | 28.4412 |
| Sb 206.834 | 22.8834 | ppb | 2.1954 | 9.6 | 26.9765 |
| Se 196.026 | 21.7554 | ppb | 2.7600 | 12.7 | 11.0110 |
| Sn 189.925 | 54.6212 | ppb | 0.9057 | 1.7 | 35.6277 |
| Sr 216.596 | 10.5788 | ppb | 0.2400 | 2.3 | 136.244 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 10.6477 | ppb | 0.0141 | 0.1 | 3072.54 |
| Tl 190.794 | 25.9718 | ppb | 1.2441 | 4.8 | 21.3681 |
| V 292.401 | 10.0866 | ppb | 0.0608 | 0.6 | 250.115 |
| Zn 206.200 | 24.8881 | ppb | 0.4140 | 1.7 | 27.5529 |

**lcs 680-353769/4-a (Samp)** **10/17/2014, 5:13:10 PM** **Rack 1, Tube 41**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 20.4725 | 20.5511 | 20.4967 |
| Al 308.215 | 1985.08 | 1987.03 | 1986.30 |
| As 188.980 | 41.8720 | 39.1957 | 40.8983 |
| B 249.678 | 83.8296 | 83.1158 | 83.6707 |
| Ba 389.178 | 42.8711 | 42.6674 | 43.0356 |
| Be 313.042 | 20.3727 | 20.3905 | 20.3768 |
| Ca 370.602 | 1934 | 1926 | 1925 |
| Cd 226.502 | 21.4380 | 21.3968 | 21.7008 |
| Co 228.615 | 20.5601 | 20.2340 | 19.4744 |
| Cr 267.716 | 40.9617 | 40.7636 | 40.9809 |
| Cu 324.754 | 42.5034 | 41.9114 | 41.9591 |
| Fe 271.441 | 2057.85 | 2054.77 | 2052.81 |
| K 766.491 | 2167.59 | 2162.47 | 2168.48 |
| Mg 279.078 | 2006.01 | 2011.95 | 2014.06 |
| Mn 257.610 | 206.248 | 205.239 | 205.424 |
| Mo 202.032 | 40.1198 | 39.9273 | 40.4516 |
| Na 330.237 | 1906.92 | 1904.81 | 2042.06 |
| Ni 231.604 | 40.8257 | 41.1590 | 42.6041 |
| Pb 220.353 | 210.449 | 207.460 | 211.448 |
| Sb 206.834 | 20.2876 | 20.5298 | 23.2768 |
| Se 196.026 | 37.9413 | 42.1440 | 38.9055 |
| Sn 189.925 | 81.8374 | 81.1077 | 79.8659 |
| Sr 216.596 | 41.1391 | 40.8573 | 40.7383 |
| Ti 334.941 | 41.3226 | 41.2906 | 41.3017 |
| Tl 190.794 | 16.3881 | 16.7478 | 16.4721 |
| V 292.401 | 40.0227 | 39.9062 | 40.1234 |
| Zn 206.200 | 43.0810 | 43.8400 | 41.2447 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 20.5068 | ppb | 0.0403 | 0.2 | 1742.60 |
| Al 308.215 | 1986.14 | ppb | 0.9869 | 0.0 | 13927.4 |
| As 188.980 | 40.6553 | ppb | 1.3546 | 3.3 | 22.1323 |
| B 249.678 | 83.5387 | ppb | 0.3748 | 0.4 | 1433.29 |
| Ba 389.178 | 42.8580 | ppb | 0.1845 | 0.4 | 846.097 |
| Be 313.042 | 20.3800 | ppb | 0.0093 | 0.0 | 36635.2 |
| Ca 370.602 | 1928 | ppb | 4.612 | 0.2 | 5613 |
| Cd 226.502 | 21.5119 | ppb | 0.1649 | 0.8 | 924.186 |
| Co 228.615 | 20.0895 | ppb | 0.5571 | 2.8 | 242.857 |
| Cr 267.716 | 40.9021 | ppb | 0.1203 | 0.3 | 2287.83 |
| Cu 324.754 | 42.1246 | ppb | 0.3289 | 0.8 | 3366.95 |
| Fe 271.441 | 2055.14 | ppb | 2.5415 | 0.1 | 3256.86 |
| K 766.491 | 2166.18 | ppb | 3.2479 | 0.1 | 97269.6 |
| Mg 279.078 | 2010.68 | ppb | 4.1723 | 0.2 | 5495.43 |
| Mn 257.610 | 205.637 | ppb | 0.5371 | 0.3 | 40501.1 |
| Mo 202.032 | 40.1662 | ppb | 0.2652 | 0.7 | 281.183 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 1951.26 | ppb | 78.6407 | 4.0 | 111.800 |
| Ni 231.604 | 41.5296 | ppb | 0.9454 | 2.3 | 124.376 |
| Pb 220.353 | 209.786 | ppb | 2.0749 | 1.0 | 340.356 |
| Sb 206.834 | 21.3647 | ppb | 1.6603 | 7.8 | 24.7202 |
| Se 196.026 | 39.6636 | ppb | 2.2015 | 5.6 | 19.5064 |
| Sn 189.925 | 80.9370 | ppb | 0.9968 | 1.2 | 55.5624 |
| Sr 216.596 | 40.9116 | ppb | 0.2058 | 0.5 | 514.322 |
| Ti 334.941 | 41.3050 | ppb | 0.0163 | 0.0 | 12010.7 |
| Tl 190.794 | 16.5360 | ppb | 0.1882 | 1.1 | 10.6238 |
| V 292.401 | 40.0174 | ppb | 0.1087 | 0.3 | 1026.89 |
| Zn 206.200 | 42.7219 | ppb | 1.3344 | 3.1 | 46.9587 |

**400-96877-a-1-d (Samp)** **10/17/2014, 5:17:26 PM** **Rack 1, Tube 42**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1495u | -0.1181u | -0.0847u |
| Al 308.215 | 3.8514 | 2.4320 | 2.1059 |
| As 188.980 | -2.8880u | -2.8407u | -4.6424u |
| B 249.678 | 12.1387 | 12.0134 | 11.8274 |
| Ba 389.178 | 8.6270 | 9.1545 | 8.1782 |
| Be 313.042 | -0.0251u | -0.0090u | -0.0212u |
| Ca 370.602 | 5903 | 5934 | 5942 |
| Cd 226.502 | 0.0744 | 0.2173 | 0.1776 |
| Co 228.615 | 0.0446 | 0.3006 | 0.2647 |
| Cr 267.716 | 2.4292 | 2.3745 | 2.2911 |
| Cu 324.754 | 45.5375 | 45.4402 | 45.3379 |
| Fe 271.441 | 3.4745 | 3.7544 | 6.7771 |
| K 766.491 | 793.004 | 784.414 | 796.156 |
| Mg 279.078 | 18448.0 | 18516.6 | 18539.3 |
| Mn 257.610 | 0.8794 | 0.8581 | 0.8280 |
| Mo 202.032 | 0.4586 | 0.0189 | 0.1735 |
| Na 330.237 | 193426x | 193848x | 194371x |
| Ni 231.604 | 0.6246 | 1.1181 | 0.3479 |
| Pb 220.353 | 0.3026 | 0.0919 | 0.4991 |
| Sb 206.834 | -0.7960u | 0.6114 | 0.5171 |
| Se 196.026 | -1.7661u | 0.3670 | 1.8665 |
| Sn 189.925 | 0.6993 | -1.9469u | 1.1907 |
| Sr 216.596 | 6.1862 | 6.9096 | 7.1863 |
| Ti 334.941 | -0.0164 | -0.0291 | -0.0861u |
| Tl 190.794 | -0.1237u | -1.0315u | 1.1777 |
| V 292.401 | 0.1165 | 0.1642 | 0.4801 |
| Zn 206.200 | 12.8520 | 14.8077 | 13.5226 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1174b | ppb | 0.0324 | 27.6 | -17.4327 |
| Al 308.215 | 2.7964b | ppb | 0.9280 | 33.2 | 622.023 |
| As 188.980 | -3.4570b | ppb | 1.0269 | 29.7 | -7.5521 |
| B 249.678 | 11.9932b | ppb | 0.1567 | 1.3 | 242.066 |
| Ba 389.178 | 8.6532b | ppb | 0.4887 | 5.6 | 130.934 |
| Be 313.042 | -0.0184b | ppb | 0.0084 | 45.5 | -292.612 |
| Ca 370.602 | 5926b | ppb | 20.21 | 0.3 | 17209 |
| Cd 226.502 | 0.1564b | ppb | 0.0738 | 47.2 | 15.2243 |
| Co 228.615 | 0.2033b | ppb | 0.1386 | 68.2 | 9.2098 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 2.3649b | ppb | 0.0695 | 2.9 | 168.413 |
| Cu 324.754 | 45.4385b | ppb | 0.0998 | 0.2 | 3610.59 |
| Fe 271.441 | 4.6687b | ppb | 1.8313 | 39.2 | 23.4268 |
| K 766.491 | 791.192b | ppb | 6.0771 | 0.8 | 35681.8 |
| Mg 279.078 | 18501.3b | ppb | 47.5126 | 0.3 | 50421.5 |
| Mn 257.610 | 0.8551b | ppb | 0.0258 | 3.0 | 333.935 |
| Mo 202.032 | 0.2170b | ppb | 0.2230 | 102.8 | 7.8785 |
| Na 330.237 | 193882xb | ppb | 473.679 | 0.2 | 8723.55 |
| Ni 231.604 | 0.6969b | ppb | 0.3902 | 56.0 | -3.4552 |
| Pb 220.353 | 0.2979b | ppb | 0.2036 | 68.4 | 9.9588 |
| Sb 206.834 | 0.1108b | ppb | 0.7868 | 710.1 | -5.4717 |
| Se 196.026 | 0.1558b | ppb | 1.8255 | 1171.9 | 0.8416 |
| Sn 189.925 | -0.0190b | ppb | 1.6876 | 8902.3 | -5.7025 |
| Sr 216.596 | 6.7607b | ppb | 0.5164 | 7.6 | 92.4516 |
| Ti 334.941 | -0.0438b | ppb | 0.0371 | 84.6 | -26.5297 |
| Tl 190.794 | 0.0075b | ppb | 1.1104 | 14813.7 | -7.6791 |
| V 292.401 | 0.2536b | ppb | 0.1976 | 77.9 | -6.0445 |
| Zn 206.200 | 13.7274b | ppb | 0.9938 | 7.2 | 15.3181 |

**400-96877-a-1-dSD (Samp)** **10/17/2014, 5:21:42 PM** **Rack 1, Tube 43**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1230u | -0.0472u | -0.0206u |
| Al 308.215 | -1.6098u | -2.8777u | -4.4066u |
| As 188.980 | -0.0098u | -5.8381u | -5.8451u |
| B 249.678 | 3.3080 | 3.5871 | 3.3748 |
| Ba 389.178 | 2.3462 | 1.9867 | 2.3497 |
| Be 313.042 | -0.0310u | -0.0275u | -0.0327u |
| Ca 370.602 | 1190 | 1179 | 1173 |
| Cd 226.502 | 0.1095 | 0.0686 | 0.0957 |
| Co 228.615 | 0.1861 | -0.1815u | -0.2990u |
| Cr 267.716 | 0.5150 | 0.4207 | 0.4786 |
| Cu 324.754 | 9.3399 | 9.0167 | 9.1083 |
| Fe 271.441 | 1.5646 | 1.6037 | 4.5013 |
| K 766.491 | 135.739 | 134.528 | 133.997 |
| Mg 279.078 | 3663.45 | 3641.81 | 3630.23 |
| Mn 257.610 | 0.3235 | 0.3112 | 0.2784 |
| Mo 202.032 | 0.4696 | 0.4622 | 0.0442 |
| Na 330.237 | 35499.4 | 35171.4 | 35008.4 |
| Ni 231.604 | -0.6382u | -0.2574u | -0.2117u |
| Pb 220.353 | 0.7218 | 0.8771 | -1.3270u |
| Sb 206.834 | 1.6229 | 2.1309 | -1.2152u |
| Se 196.026 | 2.3818 | 5.4043 | 1.5781 |
| Sn 189.925 | -1.0504u | 1.1263 | -1.2225u |
| Sr 216.596 | 1.1392 | 1.0028 | 0.8603 |
| Ti 334.941 | 0.0148 | 0.0117 | -0.0124 |
| Tl 190.794 | 0.2206 | 1.1651 | -1.3969u |
| V 292.401 | 0.0956 | -0.2295u | 0.0391 |
| Zn 206.200 | 4.0233 | 4.3299 | 2.5197 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0636 | ppb | 0.0531 | 83.5 | -12.3680 |
| Al 308.215 | -2.9647 | ppb | 1.4004 | 47.2 | -583.374 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | -3.8977 | ppb | 3.3670 | 86.4 | -7.8487 |
| B 249.678 | 3.4233 | ppb | 0.1457 | 4.3 | 98.8805 |
| Ba 389.178 | 2.2275 | ppb | 0.2086 | 9.4 | -27.6891 |
| Be 313.042 | -0.0304 | ppb | 0.0027 | 8.9 | -298.478 |
| Ca 370.602 | 1180 | ppb | 8.568 | 0.7 | 3444 |
| Cd 226.502 | 0.0913 | ppb | 0.0208 | 22.8 | 13.2054 |
| Co 228.615 | -0.0982 | ppb | 0.2531 | 257.8 | 5.6591 |
| Cr 267.716 | 0.4714 | ppb | 0.0475 | 10.1 | 61.0362 |
| Cu 324.754 | 9.1550 | ppb | 0.1666 | 1.8 | 921.652 |
| Fe 271.441 | 2.5565 | ppb | 1.6843 | 65.9 | 20.0715 |
| K 766.491 | 134.755 | ppb | 0.8930 | 0.7 | 6278.99 |
| Mg 279.078 | 3645.16 | ppb | 16.8583 | 0.5 | 9953.02 |
| Mn 257.610 | 0.3044 | ppb | 0.0233 | 7.7 | 121.556 |
| Mo 202.032 | 0.3253 | ppb | 0.2435 | 74.8 | 8.6206 |
| Na 330.237 | 35226.4 | ppb | 250.083 | 0.7 | 1606.05 |
| Ni 231.604 | -0.3691 | ppb | 0.2342 | 63.4 | -6.7891 |
| Pb 220.353 | 0.0906 | ppb | 1.2301 | 1357.1 | 9.6298 |
| Sb 206.834 | 0.8462 | ppb | 1.8032 | 213.1 | -4.4460 |
| Se 196.026 | 3.1214 | ppb | 2.0174 | 64.6 | 2.2372 |
| Sn 189.925 | -0.3822 | ppb | 1.3092 | 342.5 | -6.0272 |
| Sr 216.596 | 1.0007 | ppb | 0.1395 | 13.9 | 19.2433 |
| Ti 334.941 | 0.0047 | ppb | 0.0149 | 315.3 | -26.5727 |
| Tl 190.794 | -0.0037 | ppb | 1.2956 | 34710.8 | -7.6927 |
| V 292.401 | -0.0316 | ppb | 0.1737 | 549.9 | -12.4435 |
| Zn 206.200 | 3.6243 | ppb | 0.9688 | 26.7 | 4.2230 |

**400-96877-a-1-dPDS (Samp)** **10/17/2014, 5:25:58 PM** **Rack 1, Tube 44**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 99.3512 | 99.7978 | 99.7168 |
| Al 308.215 | 981.582 | 985.568 | 979.685 |
| As 188.980 | 101.509 | 97.1930 | 100.871 |
| B 249.678 | 202.128 | 204.536 | 204.327 |
| Ba 389.178 | 89.9345 | 89.9722 | 89.9813 |
| Be 313.042 | 96.9511 | 97.2693 | 96.8709 |
| Ca 370.602 | 15708 | 15783 | 15776 |
| Cd 226.502 | 99.7451 | 100.231 | 99.7023 |
| Co 228.615 | 97.4569 | 98.3397 | 97.8220 |
| Cr 267.716 | 101.370 | 101.646 | 101.304 |
| Cu 324.754 | 143.343 | 143.827 | 143.753 |
| Fe 271.441 | 9773.81 | 9792.50 | 9752.04 |
| K 766.491 | 12921.6 | 12951.7 | 12948.3 |
| Mg 279.078 | 28588.3 | 28605.2 | 28628.1 |
| Mn 257.610 | 991.092 | 997.604 | 995.068 |
| Mo 202.032 | 94.9502 | 96.0009 | 95.1966 |
| Na 330.237 | 206843x | 207203x | 206865x |
| Ni 231.604 | 97.6656 | 98.7046 | 99.6049 |
| Pb 220.353 | 101.306 | 100.721 | 99.2367 |
| Sb 206.834 | 101.751 | 100.086 | 97.7493 |
| Se 196.026 | 103.949 | 96.0874 | 93.1299 |
| Sn 189.925 | 97.1239 | 98.7659 | 98.6396 |
| Sr 216.596 | 105.716 | 106.402 | 104.650 |
| Ti 334.941 | 98.0546 | 98.3098 | 97.9892 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 18.5138 | 14.6991 | 16.9825 |
| V 292.401 | 96.8255 | 97.1027 | 96.6192 |
| Zn 206.200 | 114.251 | 113.256 | 114.746 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 99.6219b | ppb | 0.2379 | 0.2 | 8494.59 |
| Al 308.215 | 982.278b | ppb | 3.0028 | 0.3 | 7219.32 |
| As 188.980 | 99.8576b | ppb | 2.3295 | 2.3 | 61.8985 |
| B 249.678 | 203.664b | ppb | 1.3342 | 0.7 | 3424.09 |
| Ba 389.178 | 89.9626b | ppb | 0.0248 | 0.0 | 1900.68 |
| Be 313.042 | 97.0304b | ppb | 0.2107 | 0.2 | 175314 |
| Ca 370.602 | 15756b | ppb | 41.46 | 0.3 | 45670 |
| Cd 226.502 | 99.8929b | ppb | 0.2938 | 0.3 | 4256.79 |
| Co 228.615 | 97.8729b | ppb | 0.4436 | 0.5 | 1157.36 |
| Cr 267.716 | 101.440b | ppb | 0.1818 | 0.2 | 5631.27 |
| Cu 324.754 | 143.641b | ppb | 0.2608 | 0.2 | 10895.0 |
| Fe 271.441 | 9772.79b | ppb | 20.2510 | 0.2 | 15426.1 |
| K 766.491 | 12940.5b | ppb | 16.4964 | 0.1 | 579869 |
| Mg 279.078 | 28607.2b | ppb | 19.9777 | 0.1 | 77928.9 |
| Mn 257.610 | 994.588b | ppb | 3.2824 | 0.3 | 195880 |
| Mo 202.032 | 95.3825b | ppb | 0.5495 | 0.6 | 658.702 |
| Na 330.237 | 206970xb | ppb | 201.960 | 0.1 | 9306.04 |
| Ni 231.604 | 98.6584b | ppb | 0.9705 | 1.0 | 303.517 |
| Pb 220.353 | 100.421b | ppb | 1.0668 | 1.1 | 168.537 |
| Sb 206.834 | 99.8621b | ppb | 2.0102 | 2.0 | 136.863 |
| Se 196.026 | 97.7221b | ppb | 5.5917 | 5.7 | 47.0947 |
| Sn 189.925 | 98.1765b | ppb | 0.9137 | 0.9 | 68.6861 |
| Sr 216.596 | 105.589b | ppb | 0.8826 | 0.8 | 1327.46 |
| Ti 334.941 | 98.1179b | ppb | 0.1694 | 0.2 | 28601.1 |
| Tl 190.794 | 16.7318b | ppb | 1.9197 | 11.5 | 10.3478 |
| V 292.401 | 96.8491b | ppb | 0.2426 | 0.3 | 2502.21 |
| Zn 206.200 | 114.084b | ppb | 0.7587 | 0.7 | 124.823 |

**400-96877-a-1-e ms (Samp)** **10/17/2014, 5:30:14 PM** **Rack 1, Tube 45**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 20.8056 | 21.1247 | 20.9863 |
| Al 308.215 | 2039.35 | 2038.03 | 2039.20 |
| As 188.980 | 39.1841 | 37.6056 | 37.7924 |
| B 249.678 | 93.8055 | 93.0525 | 94.3093 |
| Ba 389.178 | 48.2850 | 48.6796 | 49.4377 |
| Be 313.042 | 20.5538 | 20.5260 | 20.5454 |
| Ca 370.602 | 8071 | 8024 | 8058 |
| Cd 226.502 | 21.0836 | 20.9732 | 20.7920 |
| Co 228.615 | 19.9180 | 20.2854 | 20.2758 |
| Cr 267.716 | 43.3921 | 43.0311 | 43.5516 |
| Cu 324.754 | 84.0963 | 85.6610 | 86.3197 |
| Fe 271.441 | 2045.26 | 2038.52 | 2046.79 |
| K 766.491 | 3282.52 | 3314.82 | 3326.66 |
| Mg 279.078 | 20656.7 | 20648.1 | 20656.8 |
| Mn 257.610 | 208.615 | 208.023 | 208.610 |
| Mo 202.032 | 40.4267 | 40.9288 | 39.6520 |
| Na 330.237 | 194029x | 196616x | 196567x |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 41.8617 | 40.4155 | 40.3641 |
| Pb 220.353 | 203.712 | 204.367 | 205.793 |
| Sb 206.834 | 20.5959 | 22.0072 | 17.7370 |
| Se 196.026 | 47.7652 | 44.1906 | 38.5470 |
| Sn 189.925 | 78.4205 | 86.0157 | 82.0260 |
| Sr 216.596 | 47.7351 | 47.8189 | 47.1576 |
| Ti 334.941 | 40.5507 | 40.6184 | 40.8200 |
| Tl 190.794 | 16.4792 | 16.8259 | 15.5458 |
| V 292.401 | 40.8197 | 40.5791 | 40.7623 |
| Zn 206.200 | 53.4131 | 54.2504 | 52.9816 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 20.9722b | ppb | 0.1600 | 0.8 | 1781.77 |
| Al 308.215 | 2038.86b | ppb | 0.7207 | 0.0 | 14280.9 |
| As 188.980 | 38.1940b | ppb | 0.8625 | 2.3 | 20.4764 |
| B 249.678 | 93.7225b | ppb | 0.6325 | 0.7 | 1603.52 |
| Ba 389.178 | 48.8008b | ppb | 0.5858 | 1.2 | 999.272 |
| Be 313.042 | 20.5417b | ppb | 0.0143 | 0.1 | 36908.5 |
| Ca 370.602 | 8051b | ppb | 24.12 | 0.3 | 23371 |
| Cd 226.502 | 20.9496b | ppb | 0.1472 | 0.7 | 899.505 |
| Co 228.615 | 20.1597b | ppb | 0.2094 | 1.0 | 243.677 |
| Cr 267.716 | 43.3249b | ppb | 0.2666 | 0.6 | 2425.05 |
| Cu 324.754 | 85.3590b | ppb | 1.1421 | 1.3 | 6571.00 |
| Fe 271.441 | 2043.52b | ppb | 4.3979 | 0.2 | 3238.54 |
| K 766.491 | 3308.00b | ppb | 22.8475 | 0.7 | 148413 |
| Mg 279.078 | 20653.9b | ppb | 4.9603 | 0.0 | 56280.1 |
| Mn 257.610 | 208.416b | ppb | 0.3404 | 0.2 | 41177.1 |
| Mo 202.032 | 40.3358b | ppb | 0.6432 | 1.6 | 282.344 |
| Na 330.237 | 195737xb | ppb | 1479.89 | 0.8 | 8805.33 |
| Ni 231.604 | 40.8804b | ppb | 0.8502 | 2.1 | 122.345 |
| Pb 220.353 | 204.624b | ppb | 1.0641 | 0.5 | 332.217 |
| Sb 206.834 | 20.1134b | ppb | 2.1756 | 10.8 | 22.9587 |
| Se 196.026 | 43.5009b | ppb | 4.6476 | 10.7 | 21.3121 |
| Sn 189.925 | 82.1541b | ppb | 3.7992 | 4.6 | 56.5453 |
| Sr 216.596 | 47.5705b | ppb | 0.3600 | 0.8 | 599.182 |
| Ti 334.941 | 40.6630b | ppb | 0.1400 | 0.3 | 11841.4 |
| Tl 190.794 | 16.2836b | ppb | 0.6620 | 4.1 | 10.3429 |
| V 292.401 | 40.7204b | ppb | 0.1256 | 0.3 | 1043.98 |
| Zn 206.200 | 53.5484b | ppb | 0.6451 | 1.2 | 58.8494 |

**400-96877-a-1-f msd (Samp)** **10/17/2014, 5:34:31 PM** **Rack 1, Tube 46**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 20.6615 | 20.4380 | 20.5327 |
| Al 308.215 | 2018.51 | 2005.72 | 2008.62 |
| As 188.980 | 41.1616 | 35.7102 | 39.1572 |
| B 249.678 | 90.9084 | 91.8338 | 92.1125 |
| Ba 389.178 | 48.2454 | 47.8958 | 47.1977 |
| Be 313.042 | 20.1857 | 20.0485 | 20.0980 |
| Ca 370.602 | 7860 | 7814 | 7868 |
| Cd 226.502 | 20.7323 | 20.3274 | 20.4870 |
| Co 228.615 | 19.8909 | 19.9452 | 20.2094 |
| Cr 267.716 | 42.5044 | 42.3654 | 42.3964 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 85.8886 | 84.0053 | 84.8694 |
| Fe 271.441 | 2012.17 | 1987.80 | 2000.88 |
| K 766.491 | 3311.13 | 3292.74 | 3312.36 |
| Mg 279.078 | 20231.8 | 20127.6 | 20170.8 |
| Mn 257.610 | 204.396 | 203.479 | 204.892 |
| Mo 202.032 | 39.6403 | 38.7473 | 39.6716 |
| Na 330.237 | 193254x | 190547x | 191986x |
| Ni 231.604 | 40.5832 | 40.9444 | 39.9528 |
| Pb 220.353 | 199.856 | 197.692 | 200.163 |
| Sb 206.834 | 22.6919 | 22.3300 | 21.6527 |
| Se 196.026 | 42.6966 | 39.2495 | 45.4921 |
| Sn 189.925 | 81.1782 | 80.5693 | 79.5326 |
| Sr 216.596 | 45.9074 | 45.6810 | 46.1060 |
| Ti 334.941 | 40.1429 | 39.7671 | 39.9565 |
| Tl 190.794 | 15.5833 | 15.6575 | 15.2598 |
| V 292.401 | 40.2087 | 40.0909 | 40.4177 |
| Zn 206.200 | 54.9405 | 54.9626 | 55.3254 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 20.5441b | ppb | 0.1122 | 0.5 | 1745.28 |
| Al 308.215 | 2010.95b | ppb | 6.7046 | 0.3 | 14093.5 |
| As 188.980 | 38.6763b | ppb | 2.7573 | 7.1 | 20.8012 |
| B 249.678 | 91.6182b | ppb | 0.6303 | 0.7 | 1568.46 |
| Ba 389.178 | 47.7796b | ppb | 0.5334 | 1.1 | 976.623 |
| Be 313.042 | 20.1107b | ppb | 0.0695 | 0.3 | 36128.9 |
| Ca 370.602 | 7848b | ppb | 29.06 | 0.4 | 22781 |
| Cd 226.502 | 20.5155b | ppb | 0.2039 | 1.0 | 881.070 |
| Co 228.615 | 20.0152b | ppb | 0.1704 | 0.9 | 241.986 |
| Cr 267.716 | 42.4221b | ppb | 0.0730 | 0.2 | 2375.24 |
| Cu 324.754 | 84.9211b | ppb | 0.9427 | 1.1 | 6538.50 |
| Fe 271.441 | 2000.28b | ppb | 12.1948 | 0.6 | 3170.40 |
| K 766.491 | 3305.41b | ppb | 10.9875 | 0.3 | 148297 |
| Mg 279.078 | 20176.7b | ppb | 52.3174 | 0.3 | 54980.4 |
| Mn 257.610 | 204.256b | ppb | 0.7168 | 0.4 | 40355.3 |
| Mo 202.032 | 39.3531b | ppb | 0.5249 | 1.3 | 275.620 |
| Na 330.237 | 191929xb | ppb | 1354.37 | 0.7 | 8634.46 |
| Ni 231.604 | 40.4935b | ppb | 0.5019 | 1.2 | 121.132 |
| Pb 220.353 | 199.237b | ppb | 1.3472 | 0.7 | 323.722 |
| Sb 206.834 | 22.2248b | ppb | 0.5275 | 2.4 | 25.9772 |
| Se 196.026 | 42.4794b | ppb | 3.1270 | 7.4 | 20.8299 |
| Sn 189.925 | 80.4267b | ppb | 0.8320 | 1.0 | 55.2356 |
| Sr 216.596 | 45.8981b | ppb | 0.2126 | 0.5 | 578.372 |
| Ti 334.941 | 39.9555b | ppb | 0.1879 | 0.5 | 11634.6 |
| Tl 190.794 | 15.5002b | ppb | 0.2115 | 1.4 | 9.4720 |
| V 292.401 | 40.2391b | ppb | 0.1655 | 0.4 | 1031.59 |
| Zn 206.200 | 55.0762b | ppb | 0.2161 | 0.4 | 60.5330 |

**400-96877-a-2-b (Samp)** **10/17/2014, 5:38:48 PM** **Rack 1, Tube 47**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.3375u | -0.4882u | -0.1842u |
| Al 308.215 | 1.4003 | 1.7399 | -0.7656u |
| As 188.980 | -0.6676u | -6.9914u | -5.2823u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 10.8724 | 10.5251 | 10.4287 |
| Ba 389.178 | 6.5526 | 6.0567 | 6.0340 |
| Be 313.042 | -0.0315u | -0.0284u | -0.0239u |
| Ca 370.602 | 5937 | 5943 | 5901 |
| Cd 226.502 | 0.0987 | 0.1873 | 0.0127 |
| Co 228.615 | -0.2336u | -0.7795u | -0.2286u |
| Cr 267.716 | 0.5830 | 0.5278 | 0.5469 |
| Cu 324.754 | 11.9727 | 12.2799 | 12.1772 |
| Fe 271.441 | 3.0512 | 7.0705 | 6.7499 |
| K 766.491 | 607.532 | 604.348 | 603.482 |
| Mg 279.078 | 18438.9 | 18450.0 | 18380.5 |
| Mn 257.610 | -0.4735 | -0.4290 | -0.5004 |
| Mo 202.032 | 0.3129 | 0.7101 | 0.0929 |
| Na 330.237 | 2588.08 | 2760.07 | 2577.30 |
| Ni 231.604 | 0.3205 | 0.4484 | 0.8267 |
| Pb 220.353 | 3.4683 | 0.0455 | 3.4580 |
| Sb 206.834 | 0.7810 | 1.8236 | 2.2314 |
| Se 196.026 | 4.5026 | 1.4592 | 4.9631 |
| Sn 189.925 | -2.9307u | -0.4602u | -1.4097u |
| Sr 216.596 | 6.8216 | 6.7998 | 6.4500 |
| Ti 334.941 | -0.0253 | -0.0207 | -0.0331 |
| Tl 190.794 | -1.7358u | -0.1993u | 0.1950 |
| V 292.401 | 1.3630 | 1.1267 | 1.1759 |
| Zn 206.200 | 3.6402 | 2.4142 | 3.9654 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.3366 | ppb | 0.1520 | 45.2 | -36.1481 |
| Al 308.215 | 0.7915 | ppb | 1.3592 | 171.7 | 608.683 |
| As 188.980 | -4.3138 | ppb | 3.2712 | 75.8 | -8.1288 |
| B 249.678 | 10.6087 | ppb | 0.2333 | 2.2 | 218.955 |
| Ba 389.178 | 6.2144 | ppb | 0.2931 | 4.7 | 78.2437 |
| Be 313.042 | -0.0279 | ppb | 0.0038 | 13.6 | -289.325 |
| Ca 370.602 | 5927 | ppb | 22.61 | 0.4 | 17211 |
| Cd 226.502 | 0.0996 | ppb | 0.0873 | 87.7 | 13.9956 |
| Co 228.615 | -0.4139 | ppb | 0.3166 | 76.5 | 1.9511 |
| Cr 267.716 | 0.5526 | ppb | 0.0281 | 5.1 | 64.8506 |
| Cu 324.754 | 12.1433 | ppb | 0.1564 | 1.3 | 1143.10 |
| Fe 271.441 | 5.6239 | ppb | 2.2338 | 39.7 | 24.8847 |
| K 766.491 | 605.121 | ppb | 2.1325 | 0.4 | 27347.4 |
| Mg 279.078 | 18423.2 | ppb | 37.3163 | 0.2 | 50208.7 |
| Mn 257.610 | -0.4676 | ppb | 0.0361 | 7.7 | 73.6187 |
| Mo 202.032 | 0.3720 | ppb | 0.3128 | 84.1 | 8.9382 |
| Na 330.237 | 2641.82 | ppb | 102.554 | 3.9 | 144.234 |
| Ni 231.604 | 0.5319 | ppb | 0.2632 | 49.5 | -3.9701 |
| Pb 220.353 | 2.3239 | ppb | 1.9732 | 84.9 | 13.1515 |
| Sb 206.834 | 1.6120 | ppb | 0.7480 | 46.4 | -3.3518 |
| Se 196.026 | 3.6416 | ppb | 1.9040 | 52.3 | 2.4821 |
| Sn 189.925 | -1.6002 | ppb | 1.2463 | 77.9 | -6.9600 |
| Sr 216.596 | 6.6905 | ppb | 0.2085 | 3.1 | 91.5662 |
| Ti 334.941 | -0.0264 | ppb | 0.0063 | 23.8 | -6.7392 |
| Tl 190.794 | -0.5801 | ppb | 1.0202 | 175.9 | -8.3372 |
| V 292.401 | 1.2219 | ppb | 0.1247 | 10.2 | 20.7062 |
| Zn 206.200 | 3.3399 | ppb | 0.8180 | 24.5 | 3.9100 |

**400-96877-a-3-b (Samp)** **10/17/2014, 5:43:05 PM** **Rack 1, Tube 48**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2821u | -0.0920u | -0.0281u |
| Al 308.215 | 4.4749 | 5.0893 | 6.4350 |
| As 188.980 | -2.5356u | -3.6575u | 0.4546 |
| B 249.678 | 11.2378 | 10.4155 | 10.4705 |
| Ba 389.178 | 7.8712 | 8.0121 | 7.9186 |
| Be 313.042 | -0.0270u | -0.0206u | -0.0153u |
| Ca 370.602 | 5020 | 5038 | 5026 |
| Cd 226.502 | 0.0849 | 0.0601 | 0.1995 |
| Co 228.615 | -0.6350u | 0.0042 | 0.0014 |
| Cr 267.716 | 2.3484 | 2.1922 | 2.2992 |
| Cu 324.754 | 7.3088 | 7.7002 | 7.4925 |
| Fe 271.441 | 0.9505 | 1.8956 | 4.7558 |
| K 766.491 | 784.406 | 784.003 | 783.550 |
| Mg 279.078 | 15201.8 | 15273.5 | 15227.5 |
| Mn 257.610 | 0.8208 | 0.8748 | 0.8990 |
| Mo 202.032 | 0.2658 | 0.2437 | 0.1074 |
| Na 330.237 | 175468x | 176222x | 175099x |
| Ni 231.604 | 1.7600 | 1.6215 | 0.7514 |
| Pb 220.353 | -0.6994u | 4.1075 | 3.1701 |
| Sb 206.834 | 1.4812 | -1.2572u | 0.5624 |
| Se 196.026 | 3.2902 | 2.4483 | -4.1578u |
| Sn 189.925 | -2.6599u | -0.6707u | 0.7306 |
| Sr 216.596 | 6.3554 | 6.6468 | 6.0178 |
| Ti 334.941 | -0.1510u | -0.0961u | -0.0372 |
| Tl 190.794 | 1.0259 | -1.9219u | -1.5853u |
| V 292.401 | 0.2039 | 0.2216 | 0.3371 |
| Zn 206.200 | 7.2985 | 6.3160 | 5.6693 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1341b | ppb | 0.1321 | 98.5 | -18.7724 |
| Al 308.215 | 5.3331b | ppb | 1.0025 | 18.8 | 639.028 |
| As 188.980 | -1.9128b | ppb | 2.1256 | 111.1 | -6.5128 |
| B 249.678 | 10.7079b | ppb | 0.4597 | 4.3 | 220.600 |
| Ba 389.178 | 7.9340b | ppb | 0.0717 | 0.9 | 110.891 |
| Be 313.042 | -0.0210b | ppb | 0.0059 | 28.0 | -295.613 |
| Ca 370.602 | 5028b | ppb | 9.180 | 0.2 | 14605 |
| Cd 226.502 | 0.1148b | ppb | 0.0744 | 64.8 | 13.5228 |
| Co 228.615 | -0.2098b | ppb | 0.3682 | 175.5 | 4.3548 |
| Cr 267.716 | 2.2799b | ppb | 0.0799 | 3.5 | 163.388 |
| Cu 324.754 | 7.5005b | ppb | 0.1958 | 2.6 | 799.034 |
| Fe 271.441 | 2.5340b | ppb | 1.9813 | 78.2 | 20.0302 |
| K 766.491 | 783.987b | ppb | 0.4283 | 0.1 | 35359.1 |
| Mg 279.078 | 15234.3b | ppb | 36.3501 | 0.2 | 41522.0 |
| Mn 257.610 | 0.8649b | ppb | 0.0400 | 4.6 | 312.396 |
| Mo 202.032 | 0.2056b | ppb | 0.0858 | 41.7 | 7.8008 |
| Na 330.237 | 175597xb | ppb | 572.406 | 0.3 | 7903.39 |
| Ni 231.604 | 1.3777b | ppb | 0.5467 | 39.7 | -1.3255 |
| Pb 220.353 | 2.1928b | ppb | 2.5481 | 116.2 | 12.9464 |
| Sb 206.834 | 0.2621b | ppb | 1.3937 | 531.6 | -5.2563 |
| Se 196.026 | 0.5269b | ppb | 4.0789 | 774.1 | 1.0163 |
| Sn 189.925 | -0.8667b | ppb | 1.7037 | 196.6 | -6.3501 |
| Sr 216.596 | 6.3400b | ppb | 0.3148 | 5.0 | 86.8408 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | -0.0948b | ppb | 0.0569 | 60.0 | -45.9795 |
| Tl 190.794 | -0.8271b | ppb | 1.6135 | 195.1 | -8.6131 |
| V 292.401 | 0.2542b | ppb | 0.0723 | 28.5 | -5.9326 |
| Zn 206.200 | 6.4279b | ppb | 0.8204 | 12.8 | 7.2975 |

**Cont Calib Verif (CCV)** **10/17/2014, 5:47:21 PM** **Rack 1, Tube 49**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 494.657 | 489.425 | 493.120 |
| Al 308.215 | 4800.22 | 4794.63 | 4797.49 |
| As 188.980 | 462.258 | 466.387 | 467.289 |
| B 249.678 | 483.079 | 484.485 | 486.818 |
| Ba 389.178 | 4945.84 | 4937.93 | 4946.17 |
| Be 313.042 | 488.431 | 487.297 | 489.346 |
| Ca 370.602 | 4755 | 4746 | 4748 |
| Cd 226.502 | 498.861 | 498.946 | 499.098 |
| Co 228.615 | 492.015 | 489.567 | 492.604 |
| Cr 267.716 | 4880.20 | 4877.01 | 4888.84 |
| Cu 324.754 | 5026.25 | 4990.19 | 4945.63 |
| Fe 271.441 | 4859.03 | 4843.82 | 4866.90 |
| K 766.491 | 10112.1 | 10131.0 | 10114.9 |
| Mg 279.078 | 4822.49 | 4828.38 | 4829.50 |
| Mn 257.610 | 4901.52 | 4879.11 | 4870.42 |
| Mo 202.032 | 483.160 | 483.704 | 487.115 |
| Na 330.237 | 7511.59 | 7534.78 | 7409.84 |
| Ni 231.604 | 2496.87 | 2488.56 | 2490.33 |
| Pb 220.353 | 495.995 | 499.154 | 502.195 |
| Sb 206.834 | 918.678 | 928.853 | 931.337 |
| Se 196.026 | 4915.21 | 4893.47 | 4884.19 |
| Sn 189.925 | 4896.23 | 4928.28 | 4869.11 |
| Sr 216.596 | 2434.37 | 2433.76 | 2454.70 |
| Ti 334.941 | 487.498 | 487.007 | 488.413 |
| Tl 190.794 | 4949.85 | 4921.44 | 4938.24 |
| V 292.401 | 4814.38 | 4801.71 | 4813.58 |
| Zn 206.200 | 2429.31 | 2434.42 | 2432.80 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 492.401 | ppb | 2.6891 | 0.5 | 41966.8 | 98.48016 |
| Al 308.215 | 4797.45 | ppb | 2.7922 | 0.1 | 33281.5 | 95.94894 |
| As 188.980 | 465.311 | ppb | 2.6821 | 0.6 | 307.816 | 93.06228 |
| B 249.678 | 484.794 | ppb | 1.8887 | 0.4 | 8146.13 | 96.95885 |
| Ba 389.178 | 4943.31 | ppb | 4.6665 | 0.1 | 106354 | 98.86625 |
| Be 313.042 | 488.358 | ppb | 1.0263 | 0.2 | 883659 | 97.67160 |
| Ca 370.602 | 4750 | ppb | 4.766 | 0.1 | 14130 | 95.00039 |
| Cd 226.502 | 498.968 | ppb | 0.1200 | 0.0 | 21066.8 | 99.79369 |
| Co 228.615 | 491.395 | ppb | 1.6104 | 0.3 | 5787.30 | 98.27905 |
| Cr 267.716 | 4882.02 | ppb | 6.1187 | 0.1 | 268790 | 97.64037 |
| Cu 324.754 | 4987.36 | ppb | 40.3867 | 0.8 | 369802 | 99.74720 |
| Fe 271.441 | 4856.58 | ppb | 11.7347 | 0.2 | 7777.24 | 97.13162 |
| K 766.491 | 10119.3 | ppb | 10.2023 | 0.1 | 453504 | 101.19341 |
| Mg 279.078 | 4826.79 | ppb | 3.7673 | 0.1 | 13066.9 | 96.53582 |
| Mn 257.610 | 4883.68 | ppb | 16.0485 | 0.3 | 960614 | 97.67368 |
| Mo 202.032 | 484.660 | ppb | 2.1437 | 0.4 | 3318.22 | 96.93193 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Na 330.237 | 7485.40 | ppb | 66.4583 | 0.9 | 303.092 | 99.80540 |
| Ni 231.604 | 2491.92 | ppb | 4.3754 | 0.2 | 7787.06 | 99.67671 |
| Pb 220.353 | 499.115 | ppb | 3.1001 | 0.6 | 800.685 | 99.82295 |
| Sb 206.834 | 926.289 | ppb | 6.7075 | 0.7 | 1366.86 | 92.62894 |
| Se 196.026 | 4897.62 | ppb | 15.9238 | 0.3 | 2307.21 | 97.95248 |
| Sn 189.925 | 4897.87 | ppb | 29.6184 | 0.6 | 3704.44 | 97.95747 |
| Sr 216.596 | 2440.95 | ppb | 11.9191 | 0.5 | 30147.9 | 97.63785 |
| Ti 334.941 | 487.640 | ppb | 0.7136 | 0.1 | 142102 | 97.52792 |
| Tl 190.794 | 4936.51 | ppb | 14.2800 | 0.3 | 5522.82 | 98.73020 |
| V 292.401 | 4809.89 | ppb | 7.0956 | 0.1 | 125339 | 96.19783 |
| Zn 206.200 | 2432.18 | ppb | 2.6080 | 0.1 | 2657.03 | 97.28709 |

**Cont Calib Blank (CCB)** **10/17/2014, 5:51:36 PM** **Rack 1, Tube 50**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.2281 | -0.1512u | 0.1485 |
| Al 308.215 | -3.9171u | -3.9810u | -4.2496u |
| As 188.980 | 0.9157 | -0.2489u | 0.0476 |
| B 249.678 | 7.9532 | 7.2891 | 6.6243 |
| Ba 389.178 | 1.0696 | 1.1753 | 1.3595 |
| Be 313.042 | 0.0164 | 0.0113 | 0.0283 |
| Ca 370.602 | 5.260 | 6.818 | 7.467 |
| Cd 226.502 | 0.2090 | 0.2334 | 0.2771 |
| Co 228.615 | 0.4292 | 0.0858 | 0.1314 |
| Cr 267.716 | 0.5962 | 0.6532 | 0.8452 |
| Cu 324.754 | 0.5032 | 0.7204 | 0.6893 |
| Fe 271.441 | -0.2615u | 0.7830 | -2.8811u |
| K 766.491 | 2.0524 | 2.2533 | 2.3446 |
| Mg 279.078 | 1.4069 | 1.5952 | 2.0552 |
| Mn 257.610 | 0.7064 | 0.7054 | 0.9385 |
| Mo 202.032 | 1.0133 | 0.8663 | 0.9978 |
| Na 330.237 | 68.4123 | -124.143u | 20.8592 |
| Ni 231.604 | 0.1302 | -0.3354u | 0.2702 |
| Pb 220.353 | 0.6941 | 1.5513 | 0.7950 |
| Sb 206.834 | 3.3534 | 5.4935 | -0.2019u |
| Se 196.026 | -2.8588u | 7.6732 | -8.4546u |
| Sn 189.925 | -0.2826u | 2.5107 | 3.4863 |
| Sr 216.596 | -0.0373u | 0.0475 | 0.3402 |
| Ti 334.941 | 0.1252 | 0.1507 | 0.1584 |
| Tl 190.794 | 2.0852 | 4.8067 | 2.2675 |
| V 292.401 | 0.6272 | 0.0544 | 0.8470 |
| Zn 206.200 | 0.0584 | 1.0596 | 0.7314 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.0752 | ppb | 0.2000 | 266.2 | -0.4210 | 0.07515 |
| Al 308.215 | -4.0492 | ppb | 0.1764 | 4.4 | 576.184 | -4.04921 |
| As 188.980 | 0.2381 | ppb | 0.6052 | 254.2 | -5.0654 | 0.23814 |
| B 249.678 | 7.2889 | ppb | 0.6644 | 9.1 | 163.508 | 7.28886 |
| Ba 389.178 | 1.2015 | ppb | 0.1467 | 12.2 | -54.7299 | 1.20146 |
| Be 313.042 | 0.0187 | ppb | 0.0087 | 46.6 | -206.268 | 0.01866 |
| Ca 370.602 | 6.515 | ppb | 1.134 | 17.4 | 39.35 | 6.51517 |
| Cd 226.502 | 0.2398 | ppb | 0.0345 | 14.4 | 19.6221 | 0.23983 |
| Co 228.615 | 0.2155 | ppb | 0.1865 | 86.5 | 9.3294 | 0.21548 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Cr 267.716 | 0.6982 | ppb | 0.1305 | 18.7 | 72.8193 | 0.69820 |
| Cu 324.754 | 0.6376 | ppb | 0.1175 | 18.4 | 290.453 | 0.63760 |
| Fe 271.441 | -0.7866 | ppb | 1.8876 | 240.0 | 14.8665 | -0.78656 |
| K 766.491 | 2.2168 | ppb | 0.1495 | 6.7 | 342.422 | 2.21676 |
| Mg 279.078 | 1.6858 | ppb | 0.3335 | 19.8 | 28.0686 | 1.68579 |
| Mn 257.610 | 0.7835 | ppb | 0.1343 | 17.1 | 190.359 | 0.78345 |
| Mo 202.032 | 0.9591 | ppb | 0.0808 | 8.4 | 12.9583 | 0.95912 |
| Na 330.237 | -11.6237 | ppb | 100.303 | 862.9 | 25.2484 | -11.62375 |
| Ni 231.604 | 0.0217 | ppb | 0.3170 | 1464.2 | -5.5685 | 0.02165 |
| Pb 220.353 | 1.0135 | ppb | 0.4685 | 46.2 | 11.0838 | 1.01346 |
| Sb 206.834 | 2.8817 | ppb | 2.8768 | 99.8 | -1.5480 | 2.88167 |
| Se 196.026 | -1.2134 | ppb | 8.1888 | 674.9 | 0.1969 | -1.21340 |
| Sn 189.925 | 1.9048 | ppb | 1.9561 | 102.7 | -4.3058 | 1.90480 |
| Sr 216.596 | 0.1168 | ppb | 0.1981 | 169.6 | 7.8259 | 0.11678 |
| Ti 334.941 | 0.1448 | ppb | 0.0174 | 12.0 | 10.5111 | 0.14476 |
| Tl 190.794 | 3.0531 | ppb | 1.5214 | 49.8 | -4.2735 | 3.05311 |
| V 292.401 | 0.5095 | ppb | 0.4092 | 80.3 | 1.7955 | 0.50955 |
| Zn 206.200 | 0.6165 | ppb | 0.5104 | 82.8 | 0.9173 | 0.61647 |

**460-84264-r-1-b (Samp)** **10/17/2014, 5:55:51 PM** **Rack 1, Tube 51**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0508u | -0.0339u | -0.0732u |
| Al 308.215 | -3.8694u | 0.7511 | -3.4229u |
| As 188.980 | -3.4026u | -3.7568u | -5.1671u |
| B 249.678 | 256.830 | 258.250 | 259.784 |
| Ba 389.178 | 60.7045 | 60.6234 | 59.9162 |
| Be 313.042 | -0.0271u | -0.0219u | -0.0239u |
| Ca 370.602 | 15871 | 15909 | 15849 |
| Cd 226.502 | -0.0187u | 0.1432 | 0.0982 |
| Co 228.615 | -0.1995u | -0.3650u | -0.4390u |
| Cr 267.716 | 0.1766 | 0.1206 | 0.1205 |
| Cu 324.754 | 41.8618 | 42.1750 | 42.1196 |
| Fe 271.441 | 14.4210 | 13.5084 | 5.8169 |
| K 766.491 | 5345.29 | 5354.69 | 5353.70 |
| Mg 279.078 | 3988.34 | 4009.09 | 3992.50 |
| Mn 257.610 | 1.4952 | 1.5223 | 1.4361 |
| Mo 202.032 | 0.4219 | -0.1413u | 0.6556 |
| Na 330.237 | 43138.8 | 43499.1 | 43506.9 |
| Ni 231.604 | 1.8332 | 1.0032 | 2.7259 |
| Pb 220.353 | 0.7762 | 3.3947 | 3.6367 |
| Sb 206.834 | 0.9373 | 1.8025 | 2.8592 |
| Se 196.026 | 5.3911 | 5.8181 | -1.8792u |
| Sn 189.925 | -1.6207u | -2.8956u | 1.2406 |
| Sr 216.596 | 1013.78 | 1018.39 | 1014.40 |
| Ti 334.941 | 0.0383 | 0.0657 | 0.0141 |
| Tl 190.794 | -0.2578u | 1.1472 | 1.1858 |
| V 292.401 | 0.0610 | -0.1195u | -0.0378u |
| Zn 206.200 | 5.4518 | 8.4000 | 7.3286 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0527 | ppb | 0.0197 | 37.4 | -47.5019 |
| Al 308.215 | -2.1804 | ppb | 2.5485 | 116.9 | -588.652 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | -4.1088 | ppb | 0.9334 | 22.7 | -7.9909 |
| B 249.678 | 258.288 | ppb | 1.4777 | 0.6 | 4358.16 |
| Ba 389.178 | 60.4147 | ppb | 0.4336 | 0.7 | 1225.39 |
| Be 313.042 | -0.0243 | ppb | 0.0026 | 10.8 | -283.284 |
| Ca 370.602 | 15876 | ppb | 30.61 | 0.2 | 46068 |
| Cd 226.502 | 0.0742 | ppb | 0.0836 | 112.6 | 12.4684 |
| Co 228.615 | -0.3345 | ppb | 0.1226 | 36.7 | 2.8877 |
| Cr 267.716 | 0.1392 | ppb | 0.0323 | 23.2 | 42.9100 |
| Cu 324.754 | 42.0522 | ppb | 0.1671 | 0.4 | 3359.63 |
| Fe 271.441 | 11.2488 | ppb | 4.7262 | 42.0 | 33.7407 |
| K 766.491 | 5351.23 | ppb | 5.1654 | 0.1 | 239933 |
| Mg 279.078 | 3996.64 | ppb | 10.9758 | 0.3 | 10910.4 |
| Mn 257.610 | 1.4845 | ppb | 0.0440 | 3.0 | 356.409 |
| Mo 202.032 | 0.3120 | ppb | 0.4096 | 131.3 | 8.5292 |
| Na 330.237 | 43381.6 | ppb | 210.323 | 0.5 | 1971.84 |
| Ni 231.604 | 1.8541 | ppb | 0.8615 | 46.5 | 0.1649 |
| Pb 220.353 | 2.6025 | ppb | 1.5862 | 60.9 | 13.5909 |
| Sb 206.834 | 1.8663 | ppb | 0.9625 | 51.6 | -2.9923 |
| Se 196.026 | 3.1100 | ppb | 4.3260 | 139.1 | 2.2322 |
| Sn 189.925 | -1.0919 | ppb | 2.1182 | 194.0 | -6.5623 |
| Sr 216.596 | 1015.52 | ppb | 2.5039 | 0.2 | 12581.2 |
| Ti 334.941 | 0.0394 | ppb | 0.0258 | 65.6 | -16.4368 |
| Tl 190.794 | 0.6918 | ppb | 0.8226 | 118.9 | -6.9156 |
| V 292.401 | -0.0321 | ppb | 0.0904 | 281.4 | -12.4873 |
| Zn 206.200 | 7.0602 | ppb | 1.4923 | 21.1 | 7.9991 |

**460-84264-q-2-b (Samp)** **10/17/2014, 6:00:06 PM** **Rack 1, Tube 52**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0058u | -0.1381u | 0.0186u |
| Al 308.215 | -1.6232u | -1.3671u | -2.3053u |
| As 188.980 | -3.1168u | 2.0535 | 0.0183 |
| B 249.678 | 265.621 | 267.179 | 266.512 |
| Ba 389.178 | 62.6440 | 61.3409 | 61.4075 |
| Be 313.042 | -0.0335u | -0.0306u | -0.0315u |
| Ca 370.602 | 16485 | 16344 | 16335 |
| Cd 226.502 | 0.1817 | 0.1443 | 0.0651 |
| Co 228.615 | -0.2180u | 0.0601 | -0.2841u |
| Cr 267.716 | 0.1251 | 0.2360 | 0.2268 |
| Cu 324.754 | 56.8880 | 57.2773 | 57.3015 |
| Fe 271.441 | 10.3041 | 12.0211 | 12.0907 |
| K 766.491 | 5422.25 | 5468.83 | 5489.69 |
| Mg 279.078 | 4144.86 | 4125.32 | 4126.42 |
| Mn 257.610 | 1.3633 | 1.4287 | 1.4336 |
| Mo 202.032 | 0.3006 | 0.5596 | 0.0454 |
| Na 330.237 | 44792.3 | 44894.1 | 44721.3 |
| Ni 231.604 | 2.1241 | 2.1409 | 1.5967 |
| Pb 220.353 | 2.5338 | -0.4612u | 1.3615 |
| Sb 206.834 | 0.5054 | 0.1040 | 2.4393 |
| Se 196.026 | 4.5964 | 0.5062 | 2.3479 |
| Sn 189.925 | 0.2821 | 2.3842 | -3.3677u |
| Sr 216.596 | 1063.24 | 1050.61 | 1049.04 |
| Ti 334.941 | 0.0657 | 0.0204 | 0.1045 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 0.8046 | -1.3058u | 0.7271 |
| V 292.401 | -0.2874u | -0.2077u | -0.2430u |
| Zn 206.200 | 10.1525 | 10.4441 | 7.5866 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0418 | ppb | 0.0843 | 201.8 | -48.1008 |
| Al 308.215 | -1.7652 | ppb | 0.4849 | 27.5 | 591.406 |
| As 188.980 | -0.3483 | ppb | 2.6046 | 747.7 | -5.4599 |
| B 249.678 | 266.437 | ppb | 0.7812 | 0.3 | 4494.33 |
| Ba 389.178 | 61.7974 | ppb | 0.7339 | 1.2 | 1255.35 |
| Be 313.042 | -0.0319 | ppb | 0.0015 | 4.7 | -296.869 |
| Ca 370.602 | 16388 | ppb | 84.12 | 0.5 | 47552 |
| Cd 226.502 | 0.1304 | ppb | 0.0596 | 45.7 | 14.8327 |
| Co 228.615 | -0.1473 | ppb | 0.1827 | 124.0 | 5.0899 |
| Cr 267.716 | 0.1960 | ppb | 0.0615 | 31.4 | 46.0625 |
| Cu 324.754 | 57.1556 | ppb | 0.2320 | 0.4 | 4478.94 |
| Fe 271.441 | 11.4720 | ppb | 1.0120 | 8.8 | 34.1170 |
| K 766.491 | 5460.26 | ppb | 34.5295 | 0.6 | 244816 |
| Mg 279.078 | 4132.20 | ppb | 10.9753 | 0.3 | 11279.7 |
| Mn 257.610 | 1.4085 | ppb | 0.0392 | 2.8 | 342.466 |
| Mo 202.032 | 0.3019 | ppb | 0.2571 | 85.2 | 8.4598 |
| Na 330.237 | 44802.6 | ppb | 86.8691 | 0.2 | 2035.54 |
| Ni 231.604 | 1.9539 | ppb | 0.3095 | 15.8 | 0.4766 |
| Pb 220.353 | 1.1447 | ppb | 1.5092 | 131.8 | 11.2924 |
| Sb 206.834 | 1.0162 | ppb | 1.2487 | 122.9 | -4.2034 |
| Se 196.026 | 2.4835 | ppb | 2.0485 | 82.5 | 1.9373 |
| Sn 189.925 | -0.2338 | ppb | 2.9105 | 1244.9 | -5.9119 |
| Sr 216.596 | 1054.30 | ppb | 7.7854 | 0.7 | 13061.3 |
| Ti 334.941 | 0.0635 | ppb | 0.0421 | 66.2 | -9.2328 |
| Tl 190.794 | 0.0753 | ppb | 1.1967 | 1589.1 | -7.6044 |
| V 292.401 | -0.2460 | ppb | 0.0400 | 16.2 | -18.0696 |
| Zn 206.200 | 9.3944 | ppb | 1.5724 | 16.7 | 10.5639 |

**460-84264-q-3-b (Samp)** **10/17/2014, 6:04:21 PM** **Rack 1, Tube 53**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1021u | -0.0082u | 0.0306u |
| Al 308.215 | 1.1657 | -1.2240u | -1.0850u |
| As 188.980 | -4.7618u | -0.6397u | -2.9230u |
| B 249.678 | 279.307 | 280.304 | 281.413 |
| Ba 389.178 | 57.7372 | 59.5766 | 58.4279 |
| Be 313.042 | -0.0356u | -0.0352u | -0.0380u |
| Ca 370.602 | 21547 | 21559 | 21616 |
| Cd 226.502 | 0.0856 | 0.0469 | 0.1723 |
| Co 228.615 | -0.0330u | 0.0514 | -0.3563u |
| Cr 267.716 | 0.6136 | 0.7580 | 0.5838 |
| Cu 324.754 | 36.9015 | 36.9487 | 37.0550 |
| Fe 271.441 | 70.6207 | 70.6694 | 75.0247 |
| K 766.491 | 5296.19 | 5286.50 | 5296.80 |
| Mg 279.078 | 5232.14 | 5230.17 | 5238.26 |
| Mn 257.610 | 4.0407 | 4.0466 | 4.0045 |
| Mo 202.032 | 1.0646 | 0.5447 | 0.9866 |
| Na 330.237 | 46869.6 | 46675.8 | 46767.9 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 2.3970 | 2.2019 | 1.5255 |
| Pb 220.353 | 3.5602 | 2.1126 | 1.8496 |
| Sb 206.834 | 8.2356 | -0.1056u | 0.7911 |
| Se 196.026 | -3.2991u | -0.3012u | -6.8506u |
| Sn 189.925 | 4.1014 | 2.2586 | -0.7816u |
| Sr 216.596 | 737.240 | 737.702 | 737.341 |
| Ti 334.941 | 0.1014 | 0.1183 | 0.1226 |
| Tl 190.794 | 1.7068 | -1.0636u | -0.5554u |
| V 292.401 | -0.1704u | -0.1209u | -0.1697u |
| Zn 206.200 | 30.6068 | 27.6295 | 29.6997 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0266 | ppb | 0.0682 | 256.6 | -35.6261 |
| Al 308.215 | -0.3811 | ppb | 1.3414 | 352.0 | 600.839 |
| As 188.980 | -2.7748 | ppb | 2.0650 | 74.4 | -7.0936 |
| B 249.678 | 280.341 | ppb | 1.0535 | 0.4 | 4726.55 |
| Ba 389.178 | 58.5806 | ppb | 0.9292 | 1.6 | 1187.65 |
| Be 313.042 | -0.0362 | ppb | 0.0015 | 4.2 | -303.136 |
| Ca 370.602 | 21574 | ppb | 36.74 | 0.2 | 62592 |
| Cd 226.502 | 0.1016 | ppb | 0.0642 | 63.2 | 13.8576 |
| Co 228.615 | -0.1126 | ppb | 0.2152 | 191.0 | 5.4826 |
| Cr 267.716 | 0.6518 | ppb | 0.0932 | 14.3 | 71.2403 |
| Cu 324.754 | 36.9684 | ppb | 0.0786 | 0.2 | 2982.94 |
| Fe 271.441 | 72.1049 | ppb | 2.5287 | 3.5 | 129.666 |
| K 766.491 | 5293.16 | ppb | 5.7772 | 0.1 | 237332 |
| Mg 279.078 | 5233.52 | ppb | 4.2190 | 0.1 | 14279.7 |
| Mn 257.610 | 4.0306 | ppb | 0.0228 | 0.6 | 866.238 |
| Mo 202.032 | 0.8653 | ppb | 0.2804 | 32.4 | 12.3134 |
| Na 330.237 | 46771.1 | ppb | 96.9794 | 0.2 | 2123.37 |
| Ni 231.604 | 2.0415 | ppb | 0.4574 | 22.4 | 0.7556 |
| Pb 220.353 | 2.5075 | ppb | 0.9211 | 36.7 | 13.4451 |
| Sb 206.834 | 2.9737 | ppb | 4.5789 | 154.0 | -1.4134 |
| Se 196.026 | -3.4836 | ppb | 3.2786 | 94.1 | -0.8701 |
| Sn 189.925 | 1.8595 | ppb | 2.4658 | 132.6 | -4.3256 |
| Sr 216.596 | 737.428 | ppb | 0.2427 | 0.0 | 9141.95 |
| Ti 334.941 | 0.1141 | ppb | 0.0112 | 9.8 | 7.3477 |
| Tl 190.794 | 0.0293 | ppb | 1.4748 | 5039.1 | -7.6650 |
| V 292.401 | -0.1536 | ppb | 0.0284 | 18.5 | -15.7673 |
| Zn 206.200 | 29.3120 | ppb | 1.5261 | 5.2 | 32.4456 |

**460-84264-q-4-b (Samp)** **10/17/2014, 6:08:37 PM** **Rack 1, Tube 54**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1555u | 0.0188 | 0.0730 |
| Al 308.215 | -4.6349u | -1.4768u | -3.5146u |
| As 188.980 | -1.6833u | -3.3970u | -4.6027u |
| B 249.678 | 6.1904 | 5.4787 | 4.8654 |
| Ba 389.178 | 0.5048 | 0.2408 | 0.2223 |
| Be 313.042 | -0.0283u | -0.0259u | -0.0321u |
| Ca 370.602 | 38.68 | 34.31 | 30.71 |
| Cd 226.502 | 0.1319 | 0.1590 | 0.0911 |
| Co 228.615 | -0.1276u | 0.0040 | 0.0877 |
| Cr 267.716 | 0.0395 | 0.1486 | -0.0232u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 0.5434 | 0.2547 | 0.6033 |
| Fe 271.441 | -1.6921u | 0.1632 | 5.7770 |
| K 766.491 | 5.2594 | 5.0014 | 5.0568 |
| Mg 279.078 | 8.3724 | 8.5534 | 6.2613 |
| Mn 257.610 | 0.1193 | 0.1585 | 0.1158 |
| Mo 202.032 | 0.1311 | 0.6608 | 0.3719 |
| Na 330.237 | 91.0160 | 99.3044 | -64.0119u |
| Ni 231.604 | 0.3300 | 0.8643 | 0.2981 |
| Pb 220.353 | -2.3576u | 0.1549 | -1.2946u |
| Sb 206.834 | -1.5543u | -0.1678u | 0.1858 |
| Se 196.026 | -3.3215u | -0.9433u | -7.2902u |
| Sn 189.925 | 1.4748 | 0.0675 | 1.7945 |
| Sr 216.596 | 0.5812 | 0.0037 | 0.0681 |
| Ti 334.941 | 0.0400 | 0.0544 | 0.0327 |
| Tl 190.794 | -0.9136u | -0.8619u | 2.1445 |
| V 292.401 | 0.1164 | 0.0530 | 0.2136 |
| Zn 206.200 | 5.2377 | 4.3718 | 4.1734 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0212 | ppb | 0.1194 | 562.1 | -8.6495 |
| Al 308.215 | -3.2088 | ppb | 1.6011 | 49.9 | 581.729 |
| As 188.980 | -3.2277 | ppb | 1.4670 | 45.5 | -7.3978 |
| B 249.678 | 5.5115 | ppb | 0.6631 | 12.0 | 133.774 |
| Ba 389.178 | 0.3226 | ppb | 0.1580 | 49.0 | -73.6442 |
| Be 313.042 | -0.0288 | ppb | 0.0031 | 10.8 | -292.006 |
| Ca 370.602 | 34.57 | ppb | 3.988 | 11.5 | 120.6 |
| Cd 226.502 | 0.1273 | ppb | 0.0342 | 26.8 | 14.8820 |
| Co 228.615 | -0.0120 | ppb | 0.1085 | 905.6 | 6.6705 |
| Cr 267.716 | 0.0550 | ppb | 0.0869 | 158.2 | 37.4095 |
| Cu 324.754 | 0.4671 | ppb | 0.1864 | 39.9 | 277.803 |
| Fe 271.441 | 1.4160 | ppb | 3.8890 | 274.6 | 18.2784 |
| K 766.491 | 5.1059 | ppb | 0.1358 | 2.7 | 471.829 |
| Mg 279.078 | 7.7290 | ppb | 1.2743 | 16.5 | 44.5434 |
| Mn 257.610 | 0.1312 | ppb | 0.0237 | 18.1 | 62.1080 |
| Mo 202.032 | 0.3879 | ppb | 0.2652 | 68.4 | 9.0491 |
| Na 330.237 | 42.1028 | ppb | 91.9914 | 218.5 | 27.5704 |
| Ni 231.604 | 0.4975 | ppb | 0.3181 | 63.9 | -4.0792 |
| Pb 220.353 | -1.1658 | ppb | 1.2612 | 108.2 | 7.6483 |
| Sb 206.834 | -0.5121 | ppb | 0.9197 | 179.6 | -6.3900 |
| Se 196.026 | -3.8517 | ppb | 3.2065 | 83.2 | -1.0450 |
| Sn 189.925 | 1.1122 | ppb | 0.9188 | 82.6 | -4.9061 |
| Sr 216.596 | 0.2177 | ppb | 0.3165 | 145.4 | 9.0603 |
| Ti 334.941 | 0.0424 | ppb | 0.0110 | 26.1 | -19.3206 |
| Tl 190.794 | 0.1230 | ppb | 1.7508 | 1423.3 | -7.5509 |
| V 292.401 | 0.1277 | ppb | 0.0809 | 63.4 | -8.0529 |
| Zn 206.200 | 4.5943 | ppb | 0.5660 | 12.3 | 5.2903 |

**460-84262-q-1-b (Samp)** **10/17/2014, 6:12:52 PM** **Rack 1, Tube 55**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1193u | 0.0797u | -0.2306u |
| Al 308.215 | -0.1498u | -1.7202u | -0.9469u |
| As 188.980 | -8.5343u | -8.3110u | -2.2946u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 331.130 | 333.277 | 335.528 |
| Ba 389.178 | 128.599 | 127.775 | 127.423 |
| Be 313.042 | -0.0445u | -0.0363u | -0.0390u |
| Ca 370.602 | 38121 | 38073 | 38280 |
| Cd 226.502 | -0.0148u | -0.0447u | 0.0789 |
| Co 228.615 | 0.0112 | 0.0547 | -0.4838u |
| Cr 267.716 | 0.5840 | 0.5667 | 0.6210 |
| Cu 324.754 | 206.981 | 205.066 | 206.894 |
| Fe 271.441 | 27.1481 | 24.0771 | 21.7031 |
| K 766.491 | 7613.13 | 7618.22 | 7628.37 |
| Mg 279.078 | 7677.29 | 7683.20 | 7696.43 |
| Mn 257.610 | 18.9212 | 18.8571 | 18.9533 |
| Mo 202.032 | 0.8438 | -0.0435u | 0.0371 |
| Na 330.237 | 29127.1 | 29396.0 | 29317.7 |
| Ni 231.604 | 0.7736 | 1.5019 | 1.0753 |
| Pb 220.353 | 2.6300 | 1.6075 | 1.9038 |
| Sb 206.834 | -0.6359u | -1.9571u | 2.3675 |
| Se 196.026 | -5.5091u | 0.5063 | -5.3476u |
| Sn 189.925 | 2.0315 | 0.0027 | 2.3138 |
| Sr 216.596 | 1475.96 | 1475.30 | 1473.07 |
| Ti 334.941 | 0.0995 | 0.0711 | 0.0633 |
| Tl 190.794 | -0.7747u | 2.4232 | -1.2385u |
| V 292.401 | -0.3083u | -0.3052u | -0.4384u |
| Zn 206.200 | 28.4194 | 28.3362 | 28.7409 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0105 | ppb | 0.1916 | 1823.3 | -60.1164 |
| Al 308.215 | -0.9390 | ppb | 0.7852 | 83.6 | 596.968 |
| As 188.980 | -6.3800 | ppb | 3.5398 | 55.5 | -9.5195 |
| B 249.678 | 333.312 | ppb | 2.1993 | 0.7 | 5611.89 |
| Ba 389.178 | 127.932 | ppb | 0.6040 | 0.5 | 2683.83 |
| Be 313.042 | -0.0399 | ppb | 0.0042 | 10.5 | -302.284 |
| Ca 370.602 | 38158 | ppb | 108.3 | 0.3 | 110695 |
| Cd 226.502 | 0.0065 | ppb | 0.0645 | 995.4 | 9.7929 |
| Co 228.615 | -0.1393 | ppb | 0.2991 | 214.8 | 5.1868 |
| Cr 267.716 | 0.5906 | ppb | 0.0277 | 4.7 | 67.5871 |
| Cu 324.754 | 206.314 | ppb | 1.0810 | 0.5 | 15532.9 |
| Fe 271.441 | 24.3094 | ppb | 2.7299 | 11.2 | 54.3529 |
| K 766.491 | 7619.91 | ppb | 7.7574 | 0.1 | 341550 |
| Mg 279.078 | 7685.64 | ppb | 9.8020 | 0.1 | 20959.0 |
| Mn 257.610 | 18.9106 | ppb | 0.0490 | 0.3 | 3810.02 |
| Mo 202.032 | 0.2792 | ppb | 0.4907 | 175.8 | 8.3037 |
| Na 330.237 | 29280.3 | ppb | 138.276 | 0.5 | 1338.70 |
| Ni 231.604 | 1.1169 | ppb | 0.3659 | 32.8 | -2.1402 |
| Pb 220.353 | 2.0471 | ppb | 0.5261 | 25.7 | 12.7199 |
| Sb 206.834 | -0.0751 | ppb | 2.2162 | 2949.2 | -5.7571 |
| Se 196.026 | -3.4501 | ppb | 3.4274 | 99.3 | -0.8512 |
| Sn 189.925 | 1.4493 | ppb | 1.2607 | 87.0 | -4.6416 |
| Sr 216.596 | 1474.78 | ppb | 1.5176 | 0.1 | 18274.1 |
| Ti 334.941 | 0.0780 | ppb | 0.0190 | 24.4 | 2.4768 |
| Tl 190.794 | 0.1366 | ppb | 1.9937 | 1459.3 | -7.5277 |
| V 292.401 | -0.3506 | ppb | 0.0760 | 21.7 | -20.6692 |
| Zn 206.200 | 28.4988 | ppb | 0.2137 | 0.7 | 31.5546 |

**460-84262-r-2-b (Samp)** **10/17/2014, 6:17:08 PM** **Rack 1, Tube 56**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0706u | -0.3577u | 0.1513u |
| Al 308.215 | 0.8856 | 1.8598 | 1.1238 |
| As 188.980 | 0.0696 | -0.6982u | -0.2633u |
| B 249.678 | 264.387 | 265.309 | 265.672 |
| Ba 389.178 | 179.154 | 179.682 | 179.148 |
| Be 313.042 | -0.0277u | -0.0376u | -0.0315u |
| Ca 370.602 | 44681 | 44766 | 44793 |
| Cd 226.502 | 0.0607 | 0.2723 | 0.0855 |
| Co 228.615 | -0.1715u | -0.2435u | -0.5051u |
| Cr 267.716 | 0.2373 | 0.0918 | 0.2071 |
| Cu 324.754 | 4.9725 | 5.5796 | 5.2739 |
| Fe 271.441 | 1518.57 | 1528.22 | 1523.85 |
| K 766.491 | 6829.84 | 6843.76 | 6842.76 |
| Mg 279.078 | 8633.71 | 8647.08 | 8656.32 |
| Mn 257.610 | 36.5577 | 36.5943 | 36.7324 |
| Mo 202.032 | -0.5092u | -0.1233u | 0.4498 |
| Na 330.237 | 20031.5 | 20059.9 | 20196.2 |
| Ni 231.604 | 2.5349 | 1.7396 | 1.7004 |
| Pb 220.353 | 2.8444 | 1.0908 | 1.9280 |
| Sb 206.834 | 0.6298 | -1.9553u | 1.9514 |
| Se 196.026 | 5.2353 | -0.2793u | 8.2639 |
| Sn 189.925 | -1.6550u | -0.4133u | -1.3260u |
| Sr 216.596 | 1368.17 | 1367.04 | 1368.34 |
| Ti 334.941 | 0.0395 | 0.1123 | 0.0814 |
| Tl 190.794 | 0.5096 | -0.6236u | 2.1733 |
| V 292.401 | -0.4111u | 0.0819 | -0.1012u |
| Zn 206.200 | 19.3868 | 19.5497 | 20.3736 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0923 | ppb | 0.2552 | 276.4 | -63.5847 |
| Al 308.215 | 1.2897 | ppb | 0.5078 | 39.4 | 614.432 |
| As 188.980 | -0.2973 | ppb | 0.3851 | 129.5 | -5.4355 |
| B 249.678 | 265.123 | ppb | 0.6624 | 0.2 | 4468.87 |
| Ba 389.178 | 179.328 | ppb | 0.3064 | 0.2 | 3792.33 |
| Be 313.042 | -0.0323 | ppb | 0.0050 | 15.4 | -284.975 |
| Ca 370.602 | 44747 | ppb | 58.77 | 0.1 | 129786 |
| Cd 226.502 | 0.1395 | ppb | 0.1157 | 82.9 | 21.0038 |
| Co 228.615 | -0.3067 | ppb | 0.1756 | 57.2 | 3.3316 |
| Cr 267.716 | 0.1787 | ppb | 0.0768 | 43.0 | 45.5452 |
| Cu 324.754 | 5.2753 | ppb | 0.3035 | 5.8 | 634.782 |
| Fe 271.441 | 1523.55 | ppb | 4.8317 | 0.3 | 2416.35 |
| K 766.491 | 6838.79 | ppb | 7.7616 | 0.1 | 306563 |
| Mg 279.078 | 8645.70 | ppb | 11.3662 | 0.1 | 23573.9 |
| Mn 257.610 | 36.6281 | ppb | 0.0922 | 0.3 | 7305.77 |
| Mo 202.032 | -0.0609 | ppb | 0.4826 | 792.4 | 5.9054 |
| Na 330.237 | 20095.9 | ppb | 88.0677 | 0.4 | 926.547 |
| Ni 231.604 | 1.9916 | ppb | 0.4709 | 23.6 | 0.7254 |
| Pb 220.353 | 1.9544 | ppb | 0.8771 | 44.9 | 12.6776 |
| Sb 206.834 | 0.2086 | ppb | 1.9871 | 952.5 | -5.3036 |
| Se 196.026 | 4.4066 | ppb | 4.3314 | 98.3 | 2.8651 |
| Sn 189.925 | -1.1314 | ppb | 0.6433 | 56.9 | -6.5995 |
| Sr 216.596 | 1367.85 | ppb | 0.7072 | 0.1 | 16955.3 |

 

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 0.0777 | ppb | 0.0366 | 47.0 | 5.0575 |
| Tl 190.794 | 0.6864 | ppb | 1.4068 | 205.0 | -7.1092 |
| V 292.401 | -0.1435 | ppb | 0.2492 | 173.7 | -14.5735 |
| Zn 206.200 | 19.7700 | ppb | 0.5290 | 2.7 | 21.8948 |

**460-84262-r-3-b (Samp)** **10/17/2014, 6:21:25 PM** **Rack 1, Tube 57**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0632u | 0.4746u | -0.1910u |
| Al 308.215 | 2.0030 | -2.0638u | -0.5408u |
| As 188.980 | -2.8135u | -0.5491u | -4.9585u |
| B 249.678 | 319.180 | 320.680 | 321.788 |
| Ba 389.178 | 130.995 | 131.965 | 129.801 |
| Be 313.042 | -0.0276u | -0.0436u | -0.0340u |
| Ca 370.602 | 35306 | 35088 | 35109 |
| Cd 226.502 | 0.2047 | 0.1022 | 0.1433 |
| Co 228.615 | -0.0192u | -0.5250u | -0.4390u |
| Cr 267.716 | 0.0732 | 0.1783 | 0.1811 |
| Cu 324.754 | 22.8293 | 23.0724 | 22.8559 |
| Fe 271.441 | 45.4611 | 38.0807 | 39.4035 |
| K 766.491 | 7160.74 | 7159.95 | 7151.29 |
| Mg 279.078 | 7232.98 | 7222.17 | 7226.86 |
| Mn 257.610 | 30.6065 | 30.2648 | 30.3693 |
| Mo 202.032 | -0.5580u | 0.0283 | 0.1721 |
| Na 330.237 | 27572.9 | 27833.2 | 27971.8 |
| Ni 231.604 | 1.5671 | -0.1599u | 0.6322 |
| Pb 220.353 | -1.4212u | -2.6886u | 0.4832 |
| Sb 206.834 | 0.1923 | -1.0395u | 1.2200 |
| Se 196.026 | -2.0809u | -1.7058u | -0.5090u |
| Sn 189.925 | 0.2503 | -0.3771u | 1.1727 |
| Sr 216.596 | 1455.15 | 1454.14 | 1458.42 |
| Ti 334.941 | 0.1426 | 0.0901 | 0.1102 |
| Tl 190.794 | -0.2765u | 4.4332 | -1.4121u |
| V 292.401 | -0.2839u | -0.2361u | -0.2813u |
| Zn 206.200 | 6.9040 | 6.2469 | 7.2567 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.1156 | ppb | 0.3359 | 290.6 | -48.7785 |
| Al 308.215 | -0.2005 | ppb | 2.0546 | 1024.6 | 601.923 |
| As 188.980 | -2.7737 | ppb | 2.2050 | 79.5 | -7.0923 |
| B 249.678 | 320.549 | ppb | 1.3090 | 0.4 | 5398.56 |
| Ba 389.178 | 130.921 | ppb | 1.0841 | 0.8 | 2747.57 |
| Be 313.042 | -0.0351 | ppb | 0.0080 | 23.0 | -294.176 |
| Ca 370.602 | 35168 | ppb | 120.2 | 0.3 | 102021 |
| Cd 226.502 | 0.1501 | ppb | 0.0516 | 34.4 | 15.9205 |
| Co 228.615 | -0.3277 | ppb | 0.2707 | 82.6 | 2.9828 |
| Cr 267.716 | 0.1442 | ppb | 0.0615 | 42.7 | 43.0408 |
| Cu 324.754 | 22.9192 | ppb | 0.1333 | 0.6 | 1941.71 |
| Fe 271.441 | 40.9818 | ppb | 3.9352 | 9.6 | 80.5718 |
| K 766.491 | 7157.33 | ppb | 5.2419 | 0.1 | 320831 |
| Mg 279.078 | 7227.34 | ppb | 5.4208 | 0.1 | 19710.3 |
| Mn 257.610 | 30.4135 | ppb | 0.1751 | 0.6 | 6069.36 |
| Mo 202.032 | -0.1192 | ppb | 0.3868 | 324.4 | 5.5762 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 27792.6 | ppb | 202.534 | 0.7 | 1272.50 |
| Ni 231.604 | 0.6798 | ppb | 0.8645 | 127.2 | -3.5049 |
| Pb 220.353 | -1.2089 | ppb | 1.5965 | 132.1 | 7.5902 |
| Sb 206.834 | 0.1243 | ppb | 1.1313 | 910.4 | -5.4710 |
| Se 196.026 | -1.4319 | ppb | 0.8210 | 57.3 | 0.1018 |
| Sn 189.925 | 0.3486 | ppb | 0.7796 | 223.6 | -5.4760 |
| Sr 216.596 | 1455.90 | ppb | 2.2368 | 0.2 | 18039.4 |
| Ti 334.941 | 0.1143 | ppb | 0.0265 | 23.2 | 12.4259 |
| Tl 190.794 | 0.9149 | ppb | 3.0994 | 338.8 | -6.6537 |
| V 292.401 | -0.2671 | ppb | 0.0269 | 10.1 | -18.3948 |
| Zn 206.200 | 6.8025 | ppb | 0.5125 | 7.5 | 7.7147 |

**460-84262-r-4-b (Samp)** **10/17/2014, 6:25:41 PM** **Rack 1, Tube 58**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1901u | 0.1145u | -0.0692u |
| Al 308.215 | 1.8791 | -0.7725u | 0.8357 |
| As 188.980 | -1.3666u | -3.0421u | -2.8718u |
| B 249.678 | 327.314 | 328.543 | 328.871 |
| Ba 389.178 | 132.055 | 134.592 | 132.798 |
| Be 313.042 | -0.0307u | -0.0329u | -0.0364u |
| Ca 370.602 | 36607 | 36685 | 36591 |
| Cd 226.502 | 0.0599 | 0.0036 | -0.0714u |
| Co 228.615 | 0.1384 | 0.1302 | -0.4087u |
| Cr 267.716 | 0.0138 | 0.0968 | 0.0401 |
| Cu 324.754 | 21.6454 | 21.4435 | 21.5040 |
| Fe 271.441 | 35.5147 | 42.5506 | 38.3262 |
| K 766.491 | 7306.43 | 7323.19 | 7319.78 |
| Mg 279.078 | 7438.29 | 7457.98 | 7443.43 |
| Mn 257.610 | 31.0882 | 30.9188 | 30.7553 |
| Mo 202.032 | -0.2793u | 0.6433 | 0.5453 |
| Na 330.237 | 28079.9 | 28247.1 | 28115.4 |
| Ni 231.604 | 0.6483 | 0.9171 | 0.1328 |
| Pb 220.353 | 0.7352 | 0.2474 | 1.3506 |
| Sb 206.834 | 2.5752 | 1.8671 | 0.3014 |
| Se 196.026 | 3.4111 | 3.9138 | 4.0457 |
| Sn 189.925 | 2.2659 | 3.0511 | 0.1503 |
| Sr 216.596 | 1500.90 | 1501.57 | 1498.87 |
| Ti 334.941 | 0.0890 | 0.1011 | 0.0500 |
| Tl 190.794 | -1.6765u | 1.2331 | -1.7516u |
| V 292.401 | -0.4302u | -0.4921u | -0.0026u |
| Zn 206.200 | 6.5376 | 6.3119 | 6.4178 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0785 | ppb | 0.1334 | 169.9 | -52.9987 |
| Al 308.215 | 0.6475 | ppb | 1.3358 | 206.3 | 607.639 |
| As 188.980 | -2.4268 | ppb | 0.9221 | 38.0 | -6.8590 |
| B 249.678 | 328.243 | ppb | 0.8208 | 0.3 | 5527.16 |
| Ba 389.178 | 133.148 | ppb | 1.3044 | 1.0 | 2795.77 |
| Be 313.042 | -0.0333 | ppb | 0.0029 | 8.6 | -290.910 |
| Ca 370.602 | 36627 | ppb | 50.11 | 0.1 | 106255 |
| Cd 226.502 | -0.0026 | ppb | 0.0659 | 2515.6 | 9.4689 |
| Co 228.615 | -0.0467 | ppb | 0.3135 | 671.4 | 6.2722 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 0.0502 | ppb | 0.0424 | 84.5 | 37.8787 |
| Cu 324.754 | 21.5310 | ppb | 0.1036 | 0.5 | 1838.84 |
| Fe 271.441 | 38.7972 | ppb | 3.5415 | 9.1 | 77.1802 |
| K 766.491 | 7316.46 | ppb | 8.8602 | 0.1 | 327959 |
| Mg 279.078 | 7446.57 | ppb | 10.2164 | 0.1 | 20307.5 |
| Mn 257.610 | 30.9207 | ppb | 0.1665 | 0.5 | 6170.44 |
| Mo 202.032 | 0.3031 | ppb | 0.5068 | 167.2 | 8.4667 |
| Na 330.237 | 28147.5 | ppb | 88.0790 | 0.3 | 1288.40 |
| Ni 231.604 | 0.5660 | ppb | 0.3985 | 70.4 | -3.8619 |
| Pb 220.353 | 0.7777 | ppb | 0.5528 | 71.1 | 10.7215 |
| Sb 206.834 | 1.5812 | ppb | 1.1635 | 73.6 | -3.3988 |
| Se 196.026 | 3.7902 | ppb | 0.3349 | 8.8 | 2.5597 |
| Sn 189.925 | 1.8224 | ppb | 1.5004 | 82.3 | -4.3593 |
| Sr 216.596 | 1500.45 | ppb | 1.4065 | 0.1 | 18591.1 |
| Ti 334.941 | 0.0800 | ppb | 0.0267 | 33.4 | 2.7004 |
| Tl 190.794 | -0.7317 | ppb | 1.7020 | 232.6 | -8.4945 |
| V 292.401 | -0.3083 | ppb | 0.2665 | 86.5 | -19.5375 |
| Zn 206.200 | 6.4224 | ppb | 0.1129 | 1.8 | 7.2974 |

**460-84262-r-5-b (Samp)** **10/17/2014, 6:29:58 PM** **Rack 1, Tube 59**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0992u | -0.2822u | -0.0871u |
| Al 308.215 | 7.0076 | 5.8942 | 7.1459 |
| As 188.980 | -5.7540u | -2.9312u | -5.5326u |
| B 249.678 | 377.805 | 379.230 | 379.154 |
| Ba 389.178 | 14.9358 | 13.9798 | 14.9842 |
| Be 313.042 | -0.0223u | -0.0321u | -0.0281u |
| Ca 370.602 | 5763 | 5735 | 5702 |
| Cd 226.502 | 0.1508 | -0.0666u | 0.1144 |
| Co 228.615 | -0.0502u | 0.2803 | -0.4323u |
| Cr 267.716 | 0.1157 | 0.1515 | 0.2110 |
| Cu 324.754 | 2.7132 | 2.9717 | 3.0004 |
| Fe 271.441 | 180.920 | 182.379 | 179.585 |
| K 766.491 | 3294.49 | 3293.20 | 3281.01 |
| Mg 279.078 | 1158.33 | 1164.23 | 1153.34 |
| Mn 257.610 | 13.0095 | 12.9021 | 12.8542 |
| Mo 202.032 | 0.8263 | 0.1246 | 0.6781 |
| Na 330.237 | 67968.8 | 68123.3 | 67705.5 |
| Ni 231.604 | 1.3487 | 1.5110 | -0.0453u |
| Pb 220.353 | 1.1514 | 1.0762 | 0.7463 |
| Sb 206.834 | 0.3571 | 2.0337 | 0.6548 |
| Se 196.026 | -0.8196u | 2.5959 | -2.7502u |
| Sn 189.925 | 2.8181 | -1.4870u | -3.1827u |
| Sr 216.596 | 308.378 | 307.795 | 307.595 |
| Ti 334.941 | 0.2665 | 0.2312 | 0.2123 |
| Tl 190.794 | 0.6548 | -1.1597u | -2.8577u |
| V 292.401 | -0.2034u | -0.1162u | -0.2165u |
| Zn 206.200 | 2.3350 | 5.1515 | 4.4623 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1562 | ppb | 0.1093 | 70.0 | -31.1017 |
| Al 308.215 | 6.6826 | ppb | 0.6862 | 10.3 | 648.339 |

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| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | -4.7393 | ppb | 1.5697 | 33.1 | -8.4163 |
| B 249.678 | 378.730 | ppb | 0.8015 | 0.2 | 6370.55 |
| Ba 389.178 | 14.6333 | ppb | 0.5664 | 3.9 | 236.084 |
| Be 313.042 | -0.0275 | ppb | 0.0049 | 17.9 | -295.139 |
| Ca 370.602 | 5733 | ppb | 30.58 | 0.5 | 16648 |
| Cd 226.502 | 0.0662 | ppb | 0.1164 | 175.9 | 12.5754 |
| Co 228.615 | -0.0674 | ppb | 0.3566 | 529.2 | 6.0339 |
| Cr 267.716 | 0.1594 | ppb | 0.0481 | 30.2 | 44.6500 |
| Cu 324.754 | 2.8951 | ppb | 0.1582 | 5.5 | 457.829 |
| Fe 271.441 | 180.962 | ppb | 1.3977 | 0.8 | 301.136 |
| K 766.491 | 3289.57 | ppb | 7.4407 | 0.2 | 147588 |
| Mg 279.078 | 1158.64 | ppb | 5.4515 | 0.5 | 3179.37 |
| Mn 257.610 | 12.9219 | ppb | 0.0795 | 0.6 | 2586.18 |
| Mo 202.032 | 0.5430 | ppb | 0.3699 | 68.1 | 10.1023 |
| Na 330.237 | 67932.5 | ppb | 211.256 | 0.3 | 3073.31 |
| Ni 231.604 | 0.9381 | ppb | 0.8556 | 91.2 | -2.6852 |
| Pb 220.353 | 0.9913 | ppb | 0.2155 | 21.7 | 11.0637 |
| Sb 206.834 | 1.0152 | ppb | 0.8945 | 88.1 | -4.2066 |
| Se 196.026 | -0.3246 | ppb | 2.7072 | 833.9 | 0.6199 |
| Sn 189.925 | -0.6172 | ppb | 3.0935 | 501.2 | -6.1950 |
| Sr 216.596 | 307.923 | ppb | 0.4069 | 0.1 | 3819.84 |
| Ti 334.941 | 0.2367 | ppb | 0.0275 | 11.6 | 34.0937 |
| Tl 190.794 | -1.1209 | ppb | 1.7566 | 156.7 | -8.9612 |
| V 292.401 | -0.1787 | ppb | 0.0545 | 30.5 | -16.5037 |
| Zn 206.200 | 3.9829 | ppb | 1.4682 | 36.9 | 4.6097 |

**460-84262-q-6-d (Samp)** **10/17/2014, 6:34:16 PM** **Rack 1, Tube 60**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1954 | 0.0952 | -0.1464u |
| Al 308.215 | -0.4028u | -0.3962u | 0.8879 |
| As 188.980 | -5.3280u | -3.4840u | -3.3116u |
| B 249.678 | 8.5303 | 6.8883 | 6.6557 |
| Ba 389.178 | 0.2697 | 0.4340 | 0.8556 |
| Be 313.042 | -0.0206u | -0.0319u | -0.0234u |
| Ca 370.602 | 19.85 | 20.00 | 14.36 |
| Cd 226.502 | 0.0166 | 0.1132 | 0.2070 |
| Co 228.615 | -0.3632u | 0.2325 | -0.0811u |
| Cr 267.716 | 0.3177 | 0.2370 | 0.2268 |
| Cu 324.754 | 0.4003 | 0.4585 | 0.2179 |
| Fe 271.441 | 70.7733 | 69.6338 | 68.7676 |
| K 766.491 | 3.2872 | 3.9955 | 3.4576 |
| Mg 279.078 | 4.4833 | 4.9787 | 6.6390 |
| Mn 257.610 | 0.3786 | 0.3911 | 0.3612 |
| Mo 202.032 | 0.0868 | 0.1701 | -0.1434u |
| Na 330.237 | 90.6642 | -51.6004u | 152.093 |
| Ni 231.604 | 1.7132 | -0.1999u | 0.0779 |
| Pb 220.353 | -1.7549u | 0.4875 | 2.1839 |
| Sb 206.834 | -0.2630u | 2.5021 | 1.5963 |
| Se 196.026 | 0.5943 | 1.1377 | -1.4171u |
| Sn 189.925 | 2.6203 | 3.5242 | 2.5413 |
| Sr 216.596 | -0.2271u | 0.5534 | 0.3057 |
| Ti 334.941 | 0.0359 | 0.0801 | 0.0512 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 1.7200 | 0.1221 | -0.4803u |
| V 292.401 | -0.0784u | -0.1516u | -0.0770u |
| Zn 206.200 | 2.2590 | 4.9343 | 2.1471 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0481 | ppb | 0.1757 | 365.6 | -2.7538 |
| Al 308.215 | 0.0297 | ppb | 0.7433 | 2506.5 | 603.530 |
| As 188.980 | -4.0412 | ppb | 1.1178 | 27.7 | -7.9457 |
| B 249.678 | 7.3581 | ppb | 1.0218 | 13.9 | 164.475 |
| Ba 389.178 | 0.5198 | ppb | 0.3022 | 58.1 | -69.3711 |
| Be 313.042 | -0.0253 | ppb | 0.0059 | 23.3 | -285.659 |
| Ca 370.602 | 18.07 | ppb | 3.211 | 17.8 | 71.95 |
| Cd 226.502 | 0.1123 | ppb | 0.0952 | 84.8 | 14.5011 |
| Co 228.615 | -0.0706 | ppb | 0.2980 | 422.0 | 5.9936 |
| Cr 267.716 | 0.2605 | ppb | 0.0498 | 19.1 | 48.7603 |
| Cu 324.754 | 0.3589 | ppb | 0.1255 | 35.0 | 269.802 |
| Fe 271.441 | 69.7249 | ppb | 1.0059 | 1.4 | 125.893 |
| K 766.491 | 3.5801 | ppb | 0.3697 | 10.3 | 403.487 |
| Mg 279.078 | 5.3670 | ppb | 1.1291 | 21.0 | 38.1032 |
| Mn 257.610 | 0.3770 | ppb | 0.0150 | 4.0 | 110.609 |
| Mo 202.032 | 0.0378 | ppb | 0.1624 | 429.0 | 6.6498 |
| Na 330.237 | 63.7190 | ppb | 104.486 | 164.0 | 28.5626 |
| Ni 231.604 | 0.5304 | ppb | 1.0337 | 194.9 | -3.9702 |
| Pb 220.353 | 0.3055 | ppb | 1.9757 | 646.7 | 9.9732 |
| Sb 206.834 | 1.2785 | ppb | 1.4097 | 110.3 | -3.8232 |
| Se 196.026 | 0.1049 | ppb | 1.3458 | 1282.4 | 0.8180 |
| Sn 189.925 | 2.8953 | ppb | 0.5461 | 18.9 | -3.5555 |
| Sr 216.596 | 0.2107 | ppb | 0.3988 | 189.3 | 9.0628 |
| Ti 334.941 | 0.0558 | ppb | 0.0224 | 40.2 | -15.4117 |
| Tl 190.794 | 0.4539 | ppb | 1.1371 | 250.5 | -7.1894 |
| V 292.401 | -0.1023 | ppb | 0.0427 | 41.7 | -13.9996 |
| Zn 206.200 | 3.1135 | ppb | 1.5779 | 50.7 | 3.6592 |

**Cont Calib Verif (CCV)** **10/17/2014, 6:38:32 PM** **Rack 2, Tube 1**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 484.935 | 492.167 | 487.859 |
| Al 308.215 | 4761.80 | 4764.36 | 4763.29 |
| As 188.980 | 455.990 | 458.008 | 461.253 |
| B 249.678 | 480.732 | 481.743 | 483.837 |
| Ba 389.178 | 4947.98 | 4942.67 | 4941.44 |
| Be 313.042 | 487.616 | 487.948 | 487.994 |
| Ca 370.602 | 4745 | 4745 | 4724 |
| Cd 226.502 | 498.266 | 497.521 | 497.178 |
| Co 228.615 | 489.285 | 489.808 | 487.827 |
| Cr 267.716 | 4878.34 | 4880.84 | 4864.42 |
| Cu 324.754 | 4840.76 | 4953.92 | 4872.42 |
| Fe 271.441 | 4843.74 | 4849.13 | 4837.83 |
| K 766.491 | 9961.59 | 9964.16 | 9922.99 |
| Mg 279.078 | 4804.27 | 4803.59 | 4801.91 |
| Mn 257.610 | 4854.04 | 4861.64 | 4843.35 |
| Mo 202.032 | 482.335 | 482.952 | 481.941 |
| Na 330.237 | 7288.84 | 7567.36 | 7297.37 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 2482.02 | 2476.05 | 2473.26 |
| Pb 220.353 | 497.811 | 499.062 | 494.606 |
| Sb 206.834 | 924.366 | 923.709 | 924.982 |
| Se 196.026 | 4774.63 | 4789.49 | 4777.42 |
| Sn 189.925 | 4880.58 | 4856.64 | 4860.72 |
| Sr 216.596 | 2461.30 | 2460.65 | 2450.28 |
| Ti 334.941 | 485.890 | 486.133 | 485.618 |
| Tl 190.794 | 4921.39 | 4924.80 | 4909.26 |
| V 292.401 | 4777.91 | 4781.66 | 4757.53 |
| Zn 206.200 | 2431.95 | 2425.37 | 2426.39 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 488.320 | ppb | 3.6379 | 0.7 | 41617.5 | 97.66408 |
| Al 308.215 | 4763.15 | ppb | 1.2862 | 0.0 | 33050.1 | 95.26307 |
| As 188.980 | 458.417 | ppb | 2.6556 | 0.6 | 303.176 | 91.68339 |
| B 249.678 | 482.104 | ppb | 1.5839 | 0.3 | 8101.20 | 96.42083 |
| Ba 389.178 | 4944.03 | ppb | 3.4742 | 0.1 | 106369 | 98.88054 |
| Be 313.042 | 487.853 | ppb | 0.2063 | 0.0 | 882744 | 97.57051 |
| Ca 370.602 | 4738 | ppb | 12.12 | 0.3 | 14095 | 94.76189 |
| Cd 226.502 | 497.655 | ppb | 0.5563 | 0.1 | 21011.4 | 99.53104 |
| Co 228.615 | 488.973 | ppb | 1.0267 | 0.2 | 5758.87 | 97.79461 |
| Cr 267.716 | 4874.53 | ppb | 8.8510 | 0.2 | 268378 | 97.49068 |
| Cu 324.754 | 4889.03 | ppb | 58.3791 | 1.2 | 362515 | 97.78065 |
| Fe 271.441 | 4843.57 | ppb | 5.6511 | 0.1 | 7756.48 | 96.87133 |
| K 766.491 | 9949.58 | ppb | 23.0651 | 0.2 | 445900 | 99.49581 |
| Mg 279.078 | 4803.26 | ppb | 1.2119 | 0.0 | 13002.9 | 96.06514 |
| Mn 257.610 | 4853.01 | ppb | 9.1869 | 0.2 | 954581 | 97.06021 |
| Mo 202.032 | 482.409 | ppb | 0.5097 | 0.1 | 3302.84 | 96.48184 |
| Na 330.237 | 7384.53 | ppb | 158.400 | 2.1 | 298.593 | 98.46034 |
| Ni 231.604 | 2477.11 | ppb | 4.4783 | 0.2 | 7740.75 | 99.08443 |
| Pb 220.353 | 497.160 | ppb | 2.2983 | 0.5 | 797.613 | 99.43191 |
| Sb 206.834 | 924.352 | ppb | 0.6368 | 0.1 | 1364.24 | 92.43523 |
| Se 196.026 | 4780.51 | ppb | 7.8965 | 0.2 | 2252.09 | 95.61022 |
| Sn 189.925 | 4865.98 | ppb | 12.8113 | 0.3 | 3680.28 | 97.31962 |
| Sr 216.596 | 2457.41 | ppb | 6.1807 | 0.3 | 30352.1 | 98.29636 |
| Ti 334.941 | 485.880 | ppb | 0.2573 | 0.1 | 141590 | 97.17606 |
| Tl 190.794 | 4918.48 | ppb | 8.1649 | 0.2 | 5502.63 | 98.36961 |
| V 292.401 | 4772.37 | ppb | 12.9826 | 0.3 | 124358 | 95.44737 |
| Zn 206.200 | 2427.90 | ppb | 3.5419 | 0.1 | 2652.29 | 97.11610 |

**Cont Calib Blank (CCB)** **10/17/2014, 6:42:48 PM** **Rack 2, Tube 2**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0099u | 0.1868 | -0.0278u |
| Al 308.215 | -3.0719u | -5.1364u | -2.4529u |
| As 188.980 | -1.6106u | -4.9832u | -2.9697u |
| B 249.678 | 9.2736 | 8.0113 | 7.6399 |
| Ba 389.178 | 1.3088 | 0.5953 | 1.0332 |
| Be 313.042 | 0.0157 | 0.0225 | 0.0261 |
| Ca 370.602 | 3.639 | 9.597 | 4.348 |
| Cd 226.502 | 0.1474 | 0.0671 | 0.0754 |
| Co 228.615 | -0.6463u | 0.0176 | -0.0304u |
| Cr 267.716 | 0.3884 | 0.7092 | 0.8940 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 0.9205 | 0.9396 | 1.0588 |
| Fe 271.441 | 4.5201 | 2.1646 | 6.1234 |
| K 766.491 | 1.7283 | 1.5238 | 1.7422 |
| Mg 279.078 | 0.5631 | 0.0749 | 2.5367 |
| Mn 257.610 | 0.6611 | 0.7446 | 0.8014 |
| Mo 202.032 | 0.6721 | 0.7283 | 0.7324 |
| Na 330.237 | -4.8234u | 39.4606 | -61.7795u |
| Ni 231.604 | 0.3289 | -0.6074u | 0.4651 |
| Pb 220.353 | 0.2896 | 0.8569 | -1.4710u |
| Sb 206.834 | 7.6586 | 2.2014 | 1.6731 |
| Se 196.026 | 1.7283 | -3.8191u | 5.8797 |
| Sn 189.925 | 2.9597 | -2.2122u | 3.9581 |
| Sr 216.596 | 0.6839 | -0.4049u | 0.1056 |
| Ti 334.941 | 0.1451 | 0.1618 | 0.1621 |
| Tl 190.794 | 1.0161 | 5.1202 | 0.7506 |
| V 292.401 | 0.4326 | 0.8725 | 0.4165 |
| Zn 206.200 | 3.6854 | -0.0847u | 2.6860 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.0497 | ppb | 0.1191 | 239.6 | -2.5924 | 0.04970 |
| Al 308.215 | -3.5537 | ppb | 1.4052 | 39.5 | 579.488 | -3.55374 |
| As 188.980 | -3.1878 | ppb | 1.6968 | 53.2 | -7.3711 | -3.18781 |
| B 249.678 | 8.3083 | ppb | 0.8564 | 10.3 | 180.584 | 8.30826 |
| Ba 389.178 | 0.9791 | ppb | 0.3598 | 36.8 | -59.5201 | 0.97907 |
| Be 313.042 | 0.0215 | ppb | 0.0053 | 24.6 | -201.156 | 0.02145 |
| Ca 370.602 | 5.861 | ppb | 3.254 | 55.5 | 37.40 | 5.86148 |
| Cd 226.502 | 0.0966 | ppb | 0.0442 | 45.7 | 13.5993 | 0.09659 |
| Co 228.615 | -0.2197 | ppb | 0.3702 | 168.5 | 4.2250 | -0.21966 |
| Cr 267.716 | 0.6639 | ppb | 0.2558 | 38.5 | 70.9317 | 0.66387 |
| Cu 324.754 | 0.9729 | ppb | 0.0749 | 7.7 | 315.295 | 0.97294 |
| Fe 271.441 | 4.2694 | ppb | 1.9913 | 46.6 | 22.7667 | 4.26937 |
| K 766.491 | 1.6648 | ppb | 0.1223 | 7.3 | 317.697 | 1.66477 |
| Mg 279.078 | 1.0583 | ppb | 1.3034 | 123.2 | 26.3598 | 1.05826 |
| Mn 257.610 | 0.7357 | ppb | 0.0706 | 9.6 | 180.961 | 0.73570 |
| Mo 202.032 | 0.7109 | ppb | 0.0337 | 4.7 | 11.2593 | 0.71092 |
| Na 330.237 | -9.0474 | ppb | 50.7521 | 561.0 | 25.3327 | -9.04742 |
| Ni 231.604 | 0.0622 | ppb | 0.5839 | 938.8 | -5.4400 | 0.06219 |
| Pb 220.353 | -0.1082 | ppb | 1.2139 | 1122.0 | 9.3162 | -0.10819 |
| Sb 206.834 | 3.8444 | ppb | 3.3137 | 86.2 | -0.1681 | 3.84437 |
| Se 196.026 | 1.2630 | ppb | 4.8661 | 385.3 | 1.3626 | 1.26297 |
| Sn 189.925 | 1.5686 | ppb | 3.3121 | 211.2 | -4.5605 | 1.56856 |
| Sr 216.596 | 0.1282 | ppb | 0.5447 | 424.9 | 7.9554 | 0.12819 |
| Ti 334.941 | 0.1563 | ppb | 0.0098 | 6.2 | 13.8880 | 0.15633 |
| Tl 190.794 | 2.2956 | ppb | 2.4497 | 106.7 | -5.1219 | 2.29565 |
| V 292.401 | 0.5739 | ppb | 0.2587 | 45.1 | 3.5331 | 0.57385 |
| Zn 206.200 | 2.0956 | ppb | 1.9531 | 93.2 | 2.5426 | 2.09557 |

**460-84262-q-6-e ms (Samp)** **10/17/2014, 6:47:03 PM** **Rack 2, Tube 3**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 19.9023 | 19.5145 | 19.7011 |
| Al 308.215 | 1908.32 | 1912.62 | 1908.92 |
| As 188.980 | 40.9337 | 34.7210 | 36.4615 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 80.7868 | 80.6052 | 80.2727 |
| Ba 389.178 | 40.2499 | 39.9580 | 40.4613 |
| Be 313.042 | 19.8341 | 19.8946 | 19.8373 |
| Ca 370.602 | 1925 | 1931 | 1925 |
| Cd 226.502 | 20.6523 | 20.4804 | 20.6230 |
| Co 228.615 | 20.0401 | 19.4426 | 19.5534 |
| Cr 267.716 | 39.9336 | 39.9688 | 40.0811 |
| Cu 324.754 | 40.5662 | 40.2460 | 39.8725 |
| Fe 271.441 | 1997.77 | 2003.45 | 1979.73 |
| K 766.491 | 2074.95 | 2073.32 | 2071.79 |
| Mg 279.078 | 1955.57 | 1958.91 | 1950.61 |
| Mn 257.610 | 203.690 | 204.109 | 202.755 |
| Mo 202.032 | 38.6757 | 39.3640 | 39.1212 |
| Na 330.237 | 2131.32 | 2212.32 | 1947.73 |
| Ni 231.604 | 41.0844 | 41.0334 | 40.2171 |
| Pb 220.353 | 202.971 | 202.719 | 201.711 |
| Sb 206.834 | 20.4522 | 21.5611 | 23.8834 |
| Se 196.026 | 39.7393 | 33.9557 | 44.6424 |
| Sn 189.925 | 80.7555 | 79.5124 | 77.6879 |
| Sr 216.596 | 39.7521 | 39.3467 | 38.8796 |
| Ti 334.941 | 39.8480 | 39.8949 | 39.7326 |
| Tl 190.794 | 14.8863 | 13.9528 | 15.6088 |
| V 292.401 | 39.2964 | 39.4148 | 38.9968 |
| Zn 206.200 | 42.3459 | 45.8069 | 40.6079 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 19.7059 | ppb | 0.1940 | 1.0 | 1674.32 |
| Al 308.215 | 1909.95 | ppb | 2.3293 | 0.1 | 13416.4 |
| As 188.980 | 37.3721 | ppb | 3.2049 | 8.6 | 19.9225 |
| B 249.678 | 80.5549 | ppb | 0.2607 | 0.3 | 1383.58 |
| Ba 389.178 | 40.2231 | ppb | 0.2527 | 0.6 | 789.234 |
| Be 313.042 | 19.8553 | ppb | 0.0341 | 0.2 | 35686.0 |
| Ca 370.602 | 1927 | ppb | 3.246 | 0.2 | 5608 |
| Cd 226.502 | 20.5852 | ppb | 0.0920 | 0.4 | 884.870 |
| Co 228.615 | 19.6787 | ppb | 0.3179 | 1.6 | 238.034 |
| Cr 267.716 | 39.9945 | ppb | 0.0770 | 0.2 | 2237.82 |
| Cu 324.754 | 40.2282 | ppb | 0.3472 | 0.9 | 3226.34 |
| Fe 271.441 | 1993.65 | ppb | 12.3861 | 0.6 | 3159.90 |
| K 766.491 | 2073.35 | ppb | 1.5795 | 0.1 | 93111.7 |
| Mg 279.078 | 1955.03 | ppb | 4.1714 | 0.2 | 5344.02 |
| Mn 257.610 | 203.518 | ppb | 0.6930 | 0.3 | 40083.5 |
| Mo 202.032 | 39.0536 | ppb | 0.3491 | 0.9 | 273.572 |
| Na 330.237 | 2097.12 | ppb | 135.570 | 6.5 | 118.359 |
| Ni 231.604 | 40.7783 | ppb | 0.4867 | 1.2 | 122.022 |
| Pb 220.353 | 202.467 | ppb | 0.6668 | 0.3 | 328.814 |
| Sb 206.834 | 21.9656 | ppb | 1.7510 | 8.0 | 25.5854 |
| Se 196.026 | 39.4458 | ppb | 5.3494 | 13.6 | 19.4016 |
| Sn 189.925 | 79.3186 | ppb | 1.5430 | 1.9 | 54.3365 |
| Sr 216.596 | 39.3261 | ppb | 0.4366 | 1.1 | 494.654 |
| Ti 334.941 | 39.8252 | ppb | 0.0835 | 0.2 | 11579.2 |
| Tl 190.794 | 14.8160 | ppb | 0.8302 | 5.6 | 8.7074 |
| V 292.401 | 39.2360 | ppb | 0.2155 | 0.5 | 1006.74 |
| Zn 206.200 | 42.9202 | ppb | 2.6466 | 6.2 | 47.1841 |

**460-84262-q-6-f msd (Samp)** **10/17/2014, 6:51:20 PM** **Rack 2, Tube 4**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 18.3270 | 18.6479 | 18.4139 |
| Al 308.215 | 1705.25 | 1705.89 | 1709.78 |
| As 188.980 | 34.1376 | 32.4958 | 34.8514 |
| B 249.678 | 73.0593 | 73.1439 | 73.5753 |
| Ba 389.178 | 35.7551 | 36.3204 | 36.5264 |
| Be 313.042 | 17.6964 | 17.6887 | 17.7257 |
| Ca 370.602 | 1728 | 1726 | 1735 |
| Cd 226.502 | 18.5021 | 18.3777 | 18.7073 |
| Co 228.615 | 17.2822 | 17.3300 | 17.7951 |
| Cr 267.716 | 35.5676 | 35.6242 | 35.5083 |
| Cu 324.754 | 35.7294 | 35.4972 | 35.8018 |
| Fe 271.441 | 1780.97 | 1779.96 | 1790.11 |
| K 766.491 | 1889.78 | 1886.62 | 1890.48 |
| Mg 279.078 | 1748.52 | 1749.06 | 1754.97 |
| Mn 257.610 | 181.464 | 181.719 | 182.955 |
| Mo 202.032 | 34.6374 | 34.9398 | 34.8208 |
| Na 330.237 | 1651.51 | 1801.18 | 1881.93 |
| Ni 231.604 | 37.4506 | 36.7308 | 35.4812 |
| Pb 220.353 | 185.049 | 181.709 | 180.641 |
| Sb 206.834 | 19.1909 | 17.9711 | 22.2894 |
| Se 196.026 | 38.8630 | 32.6258 | 36.4766 |
| Sn 189.925 | 70.8946 | 71.4282 | 70.9314 |
| Sr 216.596 | 34.7430 | 35.4839 | 35.2586 |
| Ti 334.941 | 35.5342 | 35.5263 | 35.6137 |
| Tl 190.794 | 15.1057 | 14.7996 | 17.8175 |
| V 292.401 | 35.0536 | 35.2435 | 35.1618 |
| Zn 206.200 | 37.2094 | 41.3069 | 37.9629 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 18.4630 | ppb | 0.1660 | 0.9 | 1568.30 |
| Al 308.215 | 1706.97 | ppb | 2.4531 | 0.1 | 12054.7 |
| As 188.980 | 33.8283 | ppb | 1.2079 | 3.6 | 17.5379 |
| B 249.678 | 73.2595 | ppb | 0.2767 | 0.4 | 1262.10 |
| Ba 389.178 | 36.2007 | ppb | 0.3994 | 1.1 | 702.228 |
| Be 313.042 | 17.7036 | ppb | 0.0195 | 0.1 | 31792.6 |
| Ca 370.602 | 1730 | ppb | 5.092 | 0.3 | 5036 |
| Cd 226.502 | 18.5290 | ppb | 0.1664 | 0.9 | 797.398 |
| Co 228.615 | 17.4691 | ppb | 0.2833 | 1.6 | 212.072 |
| Cr 267.716 | 35.5667 | ppb | 0.0579 | 0.2 | 1993.88 |
| Cu 324.754 | 35.6761 | ppb | 0.1591 | 0.4 | 2888.79 |
| Fe 271.441 | 1783.68 | ppb | 5.5872 | 0.3 | 2828.81 |
| K 766.491 | 1888.96 | ppb | 2.0528 | 0.1 | 84852.5 |
| Mg 279.078 | 1750.85 | ppb | 3.5758 | 0.2 | 4788.36 |
| Mn 257.610 | 182.046 | ppb | 0.7974 | 0.4 | 35858.3 |
| Mo 202.032 | 34.7994 | ppb | 0.1523 | 0.4 | 244.467 |
| Na 330.237 | 1778.21 | ppb | 116.917 | 6.6 | 104.211 |
| Ni 231.604 | 36.5542 | ppb | 0.9965 | 2.7 | 108.798 |
| Pb 220.353 | 182.466 | ppb | 2.2991 | 1.3 | 297.268 |
| Sb 206.834 | 19.8171 | ppb | 2.2262 | 11.2 | 22.5299 |
| Se 196.026 | 35.9885 | ppb | 3.1471 | 8.7 | 17.7673 |
| Sn 189.925 | 71.0847 | ppb | 0.2980 | 0.4 | 48.0992 |
| Sr 216.596 | 35.1618 | ppb | 0.3798 | 1.1 | 442.955 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 35.5581 | ppb | 0.0483 | 0.1 | 10335.2 |
| Tl 190.794 | 15.9076 | ppb | 1.6611 | 10.4 | 9.9466 |
| V 292.401 | 35.1530 | ppb | 0.0952 | 0.3 | 900.831 |
| Zn 206.200 | 38.8264 | ppb | 2.1810 | 5.6 | 42.7095 |

**mb 680-353883/1-b (Samp)** **10/17/2014, 6:55:35 PM** **Rack 2, Tube 5**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.3545u | -0.4069u | -0.2868u |
| Al 308.215 | -2.2188u | -3.1561u | -3.0203u |
| As 188.980 | -1.4398u | -0.9431u | -4.2766u |
| B 249.678 | 3.0968 | 2.2950 | 2.2354 |
| Ba 389.178 | 0.5501 | 0.3516 | 0.0895 |
| Be 313.042 | -0.0184u | -0.0199u | -0.0170u |
| Ca 370.602 | 3.580 | 5.113 | 5.913 |
| Cd 226.502 | 0.0644 | 0.0149 | 0.1682 |
| Co 228.615 | -0.3563u | -0.2536u | -0.2980u |
| Cr 267.716 | 0.1565 | 0.0515 | 0.0694 |
| Cu 324.754 | 0.1180 | -0.0520u | 0.1398 |
| Fe 271.441 | -1.0020u | 1.2032 | 7.3276 |
| K 766.491 | 1.7335 | 1.3018 | 1.6091 |
| Mg 279.078 | 0.9241 | 5.0348 | 0.4298 |
| Mn 257.610 | 0.1713 | 0.1854 | 0.1889 |
| Mo 202.032 | 0.2798 | 0.1966 | 0.1042 |
| Na 330.237 | 42.1213 | 33.5006 | 141.664 |
| Ni 231.604 | -0.0418u | -0.8483u | 0.0186 |
| Pb 220.353 | 0.2299 | 1.8662 | 2.3938 |
| Sb 206.834 | 0.0738 | 2.2075 | 2.2670 |
| Se 196.026 | -0.4133u | -7.1020u | -1.8330u |
| Sn 189.925 | 0.4942 | -0.0206u | 1.4261 |
| Sr 216.596 | -0.2643u | -0.6076u | -0.0898u |
| Ti 334.941 | 0.0133 | 0.0073 | 0.0450 |
| Tl 190.794 | -0.0722u | 0.1732 | 0.6769 |
| V 292.401 | -0.1203u | 0.1732 | -0.1462u |
| Zn 206.200 | 3.4594 | 1.9894 | 2.7828 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.3494 | ppb | 0.0602 | 17.2 | -36.6453 |
| Al 308.215 | -2.7984 | ppb | 0.5065 | 18.1 | 584.461 |
| As 188.980 | -2.2198 | ppb | 1.7984 | 81.0 | -6.7194 |
| B 249.678 | 2.5424 | ppb | 0.4811 | 18.9 | 84.1766 |
| Ba 389.178 | 0.3304 | ppb | 0.2310 | 69.9 | -73.4885 |
| Be 313.042 | -0.0184 | ppb | 0.0015 | 8.1 | -273.265 |
| Ca 370.602 | 4.869 | ppb | 1.186 | 24.4 | 34.47 |
| Cd 226.502 | 0.0825 | ppb | 0.0783 | 94.8 | 12.9966 |
| Co 228.615 | -0.3027 | ppb | 0.0515 | 17.0 | 3.2596 |
| Cr 267.716 | 0.0925 | ppb | 0.0562 | 60.7 | 39.4767 |
| Cu 324.754 | 0.0686 | ppb | 0.1050 | 153.1 | 248.263 |
| Fe 271.441 | 2.5096 | ppb | 4.3158 | 172.0 | 19.9793 |
| K 766.491 | 1.5481 | ppb | 0.2222 | 14.4 | 312.472 |
| Mg 279.078 | 2.1296 | ppb | 2.5281 | 118.7 | 29.2897 |
| Mn 257.610 | 0.1819 | ppb | 0.0093 | 5.1 | 72.0262 |
| Mo 202.032 | 0.1936 | ppb | 0.0878 | 45.4 | 7.7189 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 72.4288 | ppb | 60.1146 | 83.0 | 28.9801 |
| Ni 231.604 | -0.2905 | ppb | 0.4840 | 166.6 | -6.5432 |
| Pb 220.353 | 1.4966 | ppb | 1.1283 | 75.4 | 11.8465 |
| Sb 206.834 | 1.5161 | ppb | 1.2494 | 82.4 | -3.4903 |
| Se 196.026 | -3.1161 | ppb | 3.5241 | 113.1 | -0.6988 |
| Sn 189.925 | 0.6332 | ppb | 0.7333 | 115.8 | -5.2690 |
| Sr 216.596 | -0.3206 | ppb | 0.2634 | 82.2 | 2.4161 |
| Ti 334.941 | 0.0219 | ppb | 0.0203 | 92.7 | -25.3089 |
| Tl 190.794 | 0.2593 | ppb | 0.3819 | 147.3 | -7.3986 |
| V 292.401 | -0.0311 | ppb | 0.1774 | 570.3 | -12.1731 |
| Zn 206.200 | 2.7438 | ppb | 0.7358 | 26.8 | 3.2567 |

**lcs 680-353883/2-b (Samp)** **10/17/2014, 6:59:51 PM** **Rack 2, Tube 6**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 49.5802 | 49.4763 | 49.2843 |
| Al 308.215 | 4751.66 | 4705.45 | 4703.80 |
| As 188.980 | 94.3165 | 94.4537 | 98.0591 |
| B 249.678 | 190.474 | 190.458 | 191.952 |
| Ba 389.178 | 99.0565 | 97.9467 | 98.4729 |
| Be 313.042 | 48.2201 | 48.1718 | 48.2069 |
| Ca 370.602 | 4623 | 4611 | 4632 |
| Cd 226.502 | 51.0033 | 50.7043 | 50.4920 |
| Co 228.615 | 48.2663 | 48.9491 | 48.7123 |
| Cr 267.716 | 97.8795 | 97.8033 | 97.8479 |
| Cu 324.754 | 96.7216 | 96.9249 | 97.0792 |
| Fe 271.441 | 4852.17 | 4836.32 | 4842.20 |
| K 766.491 | 5094.21 | 5092.30 | 5092.52 |
| Mg 279.078 | 4727.65 | 4720.11 | 4735.60 |
| Mn 257.610 | 486.647 | 484.694 | 488.895 |
| Mo 202.032 | 94.3502 | 94.2425 | 94.7836 |
| Na 330.237 | 4634.45 | 4801.56 | 4781.57 |
| Ni 231.604 | 97.9743 | 97.0723 | 98.0153 |
| Pb 220.353 | 492.908 | 491.745 | 496.130 |
| Sb 206.834 | 49.8838 | 50.8082 | 48.9154 |
| Se 196.026 | 92.4861 | 97.8327 | 96.5771 |
| Sn 189.925 | 190.546 | 190.502 | 196.319 |
| Sr 216.596 | 97.2849 | 96.5708 | 96.0860 |
| Ti 334.941 | 98.0587 | 97.8238 | 97.8530 |
| Tl 190.794 | 36.1349 | 40.3714 | 39.0933 |
| V 292.401 | 95.5767 | 95.0725 | 94.7937 |
| Zn 206.200 | 97.2805 | 99.3539 | 99.1700 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 49.4470 | ppb | 0.1501 | 0.3 | 4211.55 |
| Al 308.215 | 4720.30 | ppb | 27.1699 | 0.6 | 32269.7 |
| As 188.980 | 95.6098 | ppb | 2.1223 | 2.2 | 59.1125 |
| B 249.678 | 190.961 | ppb | 0.8580 | 0.4 | 3222.49 |
| Ba 389.178 | 98.4920 | ppb | 0.5551 | 0.6 | 2049.26 |
| Be 313.042 | 48.1996 | ppb | 0.0250 | 0.1 | 86971.6 |
| Ca 370.602 | 4622 | ppb | 10.69 | 0.2 | 13425 |
| Cd 226.502 | 50.7332 | ppb | 0.2569 | 0.5 | 2166.64 |
| Co 228.615 | 48.6426 | ppb | 0.3467 | 0.7 | 578.363 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 97.8436 | ppb | 0.0383 | 0.0 | 5424.89 |
| Cu 324.754 | 96.9086 | ppb | 0.1794 | 0.2 | 7429.59 |
| Fe 271.441 | 4843.56 | ppb | 8.0136 | 0.2 | 7654.11 |
| K 766.491 | 5093.01 | ppb | 1.0418 | 0.0 | 228367 |
| Mg 279.078 | 4727.79 | ppb | 7.7452 | 0.2 | 12889.9 |
| Mn 257.610 | 486.745 | ppb | 2.1022 | 0.4 | 95816.4 |
| Mo 202.032 | 94.4588 | ppb | 0.2864 | 0.3 | 652.613 |
| Na 330.237 | 4739.19 | ppb | 91.2609 | 1.9 | 234.825 |
| Ni 231.604 | 97.6873 | ppb | 0.5330 | 0.5 | 300.181 |
| Pb 220.353 | 493.594 | ppb | 2.2718 | 0.5 | 787.972 |
| Sb 206.834 | 49.8691 | ppb | 0.9465 | 1.9 | 65.2583 |
| Se 196.026 | 95.6320 | ppb | 2.7958 | 2.9 | 45.9438 |
| Sn 189.925 | 192.456 | ppb | 3.3460 | 1.7 | 140.040 |
| Sr 216.596 | 96.6472 | ppb | 0.6031 | 0.6 | 1206.35 |
| Ti 334.941 | 97.9118 | ppb | 0.1280 | 0.1 | 28514.1 |
| Tl 190.794 | 38.5332 | ppb | 2.1731 | 5.6 | 34.9808 |
| V 292.401 | 95.1476 | ppb | 0.3969 | 0.4 | 2457.37 |
| Zn 206.200 | 98.6015 | ppb | 1.1477 | 1.2 | 108.049 |

**680-106275-b-1-d (Samp)** **10/17/2014, 7:04:07 PM** **Rack 2, Tube 7**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1825u | -0.1784u | -0.2295u |
| Al 308.215 | 922.117 | 918.639 | 918.741 |
| As 188.980 | 7.1102 | -0.9994u | -2.3513u |
| B 249.678 | 64.6111 | 65.1566 | 64.7457 |
| Ba 389.178 | 263.236 | 262.737 | 262.132 |
| Be 313.042 | 0.0255 | 0.0280 | 0.0196 |
| Ca 370.602 | 74021 | 73898 | 74002 |
| Cd 226.502 | 0.0680 | 0.1045 | -0.0475u |
| Co 228.615 | 0.3243 | 0.4819 | 0.4677 |
| Cr 267.716 | 4.4696 | 4.3650 | 4.4401 |
| Cu 324.754 | 4.3284 | 4.5019 | 4.3317 |
| Fe 271.441 | 850.084 | 857.506 | 855.416 |
| K 766.491 | 21965.2 | 22012.9 | 22027.1 |
| Mg 279.078 | 10682.5 | 10662.3 | 10696.4 |
| Mn 257.610 | 2068.92 | 2067.83 | 2069.15 |
| Mo 202.032 | 1.5213 | 1.5709 | 1.8555 |
| Na 330.237 | 349174x | 348161x | 350439x |
| Ni 231.604 | 8.2841 | 7.9207 | 8.3349 |
| Pb 220.353 | 2.2427 | 0.4114 | 1.5576 |
| Sb 206.834 | 2.6303 | 0.4010 | 2.4600 |
| Se 196.026 | 4.3629 | 3.5023 | 6.5474 |
| Sn 189.925 | 0.8975 | 1.4426 | 3.8889 |
| Sr 216.596 | 326.338 | 325.377 | 326.446 |
| Ti 334.941 | 7.4906 | 7.5685 | 7.5236 |
| Tl 190.794 | -1.7845u | 1.6083 | -0.2159 |
| V 292.401 | 3.2592 | 3.6966 | 3.1801 |
| Zn 206.200 | 5.4138 | 9.1994 | 9.9317 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1968b | ppb | 0.0284 | 14.4 | -24.5953 |
| Al 308.215 | 919.832b | ppb | 1.9796 | 0.2 | 6771.38 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 1.2531b | ppb | 5.1172 | 408.4 | -4.3783 |
| B 249.678 | 64.8378b | ppb | 0.2841 | 0.4 | 1123.34 |
| Ba 389.178 | 262.702b | ppb | 0.5525 | 0.2 | 5589.42 |
| Be 313.042 | 0.0244b | ppb | 0.0043 | 17.8 | -209.220 |
| Ca 370.602 | 73974b | ppb | 66.56 | 0.1 | 214622 |
| Cd 226.502 | 0.0417b | ppb | 0.0794 | 190.5 | 12.4249 |
| Co 228.615 | 0.4246b | ppb | 0.0872 | 20.5 | 12.0128 |
| Cr 267.716 | 4.4249b | ppb | 0.0540 | 1.2 | 295.788 |
| Cu 324.754 | 4.3873b | ppb | 0.0993 | 2.3 | 568.697 |
| Fe 271.441 | 854.335b | ppb | 3.8272 | 0.4 | 1362.18 |
| K 766.491 | 22001.7b | ppb | 32.4531 | 0.1 | 985733 |
| Mg 279.078 | 10680.4b | ppb | 17.1486 | 0.2 | 29073.1 |
| Mn 257.610 | 2068.63b | ppb | 0.7038 | 0.0 | 406974 |
| Mo 202.032 | 1.6492b | ppb | 0.1804 | 10.9 | 17.6385 |
| Na 330.237 | 349258xb | ppb | 1141.38 | 0.3 | 15694.1 |
| Ni 231.604 | 8.1799b | ppb | 0.2259 | 2.8 | 20.0196 |
| Pb 220.353 | 1.4039b | ppb | 0.9252 | 65.9 | 12.1747 |
| Sb 206.834 | 1.8305b | ppb | 1.2409 | 67.8 | -2.9873 |
| Se 196.026 | 4.8042b | ppb | 1.5698 | 32.7 | 3.5344 |
| Sn 189.925 | 2.0763b | ppb | 1.5932 | 76.7 | -4.0662 |
| Sr 216.596 | 326.054b | ppb | 0.5884 | 0.2 | 4072.30 |
| Ti 334.941 | 7.5275b | ppb | 0.0391 | 0.5 | 2153.92 |
| Tl 190.794 | -0.1307b | ppb | 1.6980 | 1299.1 | -6.8464 |
| V 292.401 | 3.3786b | ppb | 0.2782 | 8.2 | 74.4254 |
| Zn 206.200 | 8.1816b | ppb | 2.4248 | 29.6 | 9.1777 |

**680-106275-b-1-dSD (Samp)** **10/17/2014, 7:08:23 PM** **Rack 2, Tube 8**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1238u | -0.2837u | -0.1621u |
| Al 308.215 | 168.511 | 167.531 | 168.577 |
| As 188.980 | -5.2556u | -3.1499u | 0.5217 |
| B 249.678 | 14.0750 | 13.8517 | 13.6946 |
| Ba 389.178 | 53.6883 | 52.1943 | 52.5788 |
| Be 313.042 | -0.0283u | -0.0260u | -0.0264u |
| Ca 370.602 | 14319 | 14203 | 14188 |
| Cd 226.502 | 0.0884 | 0.1658 | 0.0443 |
| Co 228.615 | -0.1826u | 0.1223 | -0.2211u |
| Cr 267.716 | 0.9144 | 0.8755 | 1.0260 |
| Cu 324.754 | 0.8430 | 0.9737 | 1.1597 |
| Fe 271.441 | 170.054 | 167.691 | 172.628 |
| K 766.491 | 3610.97 | 3594.23 | 3608.27 |
| Mg 279.078 | 2138.39 | 2117.10 | 2129.85 |
| Mn 257.610 | 405.755 | 403.391 | 402.244 |
| Mo 202.032 | 0.7688 | 0.0213 | 0.4963 |
| Na 330.237 | 60491.9 | 60050.8 | 60366.9 |
| Ni 231.604 | 2.0447 | 1.0286 | 2.4874 |
| Pb 220.353 | -1.0864u | 1.8313 | 0.7266 |
| Sb 206.834 | 2.7233 | 0.0183 | 0.2207 |
| Se 196.026 | 4.6490 | 1.7742 | -6.1867u |
| Sn 189.925 | -2.7620u | 4.5883 | 1.0739 |
| Sr 216.596 | 64.4260 | 64.3043 | 64.3757 |
| Ti 334.941 | 1.5215 | 1.5616 | 1.5485 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -1.3584u | -0.9096u | -1.6190u |
| V 292.401 | 0.3002 | 0.2843 | 0.8339 |
| Zn 206.200 | 1.2865 | 3.0509 | 2.0853 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1899 | ppb | 0.0835 | 44.0 | -23.2512 |
| Al 308.215 | 168.206 | ppb | 0.5859 | 0.3 | 1731.17 |
| As 188.980 | -2.6279 | ppb | 2.9238 | 111.3 | -6.9935 |
| B 249.678 | 13.8738 | ppb | 0.1911 | 1.4 | 273.159 |
| Ba 389.178 | 52.8205 | ppb | 0.7757 | 1.5 | 1059.43 |
| Be 313.042 | -0.0269 | ppb | 0.0012 | 4.5 | -290.303 |
| Ca 370.602 | 14237 | ppb | 71.49 | 0.5 | 41322 |
| Cd 226.502 | 0.0995 | ppb | 0.0615 | 61.8 | 13.9945 |
| Co 228.615 | -0.0938 | ppb | 0.1882 | 200.6 | 5.7562 |
| Cr 267.716 | 0.9386 | ppb | 0.0781 | 8.3 | 89.4003 |
| Cu 324.754 | 0.9921 | ppb | 0.1591 | 16.0 | 316.780 |
| Fe 271.441 | 170.124 | ppb | 2.4697 | 1.5 | 284.052 |
| K 766.491 | 3604.49 | ppb | 8.9856 | 0.2 | 161694 |
| Mg 279.078 | 2128.45 | ppb | 10.7152 | 0.5 | 5812.73 |
| Mn 257.610 | 403.797 | ppb | 1.7904 | 0.4 | 79470.9 |
| Mo 202.032 | 0.4288 | ppb | 0.3783 | 88.2 | 9.3205 |
| Na 330.237 | 60303.2 | ppb | 227.311 | 0.4 | 2731.07 |
| Ni 231.604 | 1.8536 | ppb | 0.7480 | 40.4 | 0.1771 |
| Pb 220.353 | 0.4905 | ppb | 1.4731 | 300.3 | 10.3542 |
| Sb 206.834 | 0.9874 | ppb | 1.5067 | 152.6 | -4.2341 |
| Se 196.026 | 0.0789 | ppb | 5.6133 | 7117.6 | 0.9050 |
| Sn 189.925 | 0.9667 | ppb | 3.6763 | 380.3 | -4.9976 |
| Sr 216.596 | 64.3687 | ppb | 0.0612 | 0.1 | 808.981 |
| Ti 334.941 | 1.5439 | ppb | 0.0205 | 1.3 | 417.401 |
| Tl 190.794 | -1.2957 | ppb | 0.3589 | 27.7 | -8.9430 |
| V 292.401 | 0.4728 | ppb | 0.3129 | 66.2 | 0.5830 |
| Zn 206.200 | 2.1409 | ppb | 0.8835 | 41.3 | 2.5837 |

**680-106275-b-1-dPDS (Samp)** **10/17/2014, 7:12:39 PM** **Rack 2, Tube 9**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 101.827 | 101.764 | 101.754 |
| Al 308.215 | 1937.47 | 1933.03 | 1932.53 |
| As 188.980 | 103.175 | 105.526 | 99.8565 |
| B 249.678 | 259.541 | 260.347 | 262.220 |
| Ba 389.178 | 344.956 | 345.796 | 345.252 |
| Be 313.042 | 97.9263 | 97.8052 | 97.7799 |
| Ca 370.602 | 83827 | 83980 | 83844 |
| Cd 226.502 | 99.6476 | 99.2772 | 99.3441 |
| Co 228.615 | 98.6973 | 98.8207 | 98.7524 |
| Cr 267.716 | 103.538 | 103.642 | 103.734 |
| Cu 324.754 | 107.556 | 107.208 | 107.297 |
| Fe 271.441 | 10616.9 | 10616.8 | 10605.7 |
| K 766.491 | 34533.9 | 34379.7 | 34492.7 |
| Mg 279.078 | 20396.3 | 20383.3 | 20390.6 |
| Mn 257.610 | 2995.01 | 2989.43 | 2985.91 |
| Mo 202.032 | 98.1480 | 98.0020 | 98.6556 |
| Na 330.237 | 364772x | 362264x | 363340x |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 105.354 | 105.596 | 106.444 |
| Pb 220.353 | 101.726 | 100.933 | 98.7397 |
| Sb 206.834 | 101.003 | 97.0895 | 101.452 |
| Se 196.026 | 100.846 | 111.025 | 104.191 |
| Sn 189.925 | 94.9489 | 103.230 | 96.0161 |
| Sr 216.596 | 426.049 | 425.458 | 424.536 |
| Ti 334.941 | 106.163 | 105.958 | 105.990 |
| Tl 190.794 | 18.2197 | 14.5945 | 17.9113 |
| V 292.401 | 100.860 | 100.647 | 100.509 |
| Zn 206.200 | 108.101 | 108.199 | 107.070 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 101.782b | ppb | 0.0398 | 0.0 | 8678.14 |
| Al 308.215 | 1934.34b | ppb | 2.7176 | 0.1 | 13603.7 |
| As 188.980 | 102.852b | ppb | 2.8483 | 2.8 | 63.9178 |
| B 249.678 | 260.702b | ppb | 1.3745 | 0.5 | 4375.41 |
| Ba 389.178 | 345.335b | ppb | 0.4261 | 0.1 | 7387.25 |
| Be 313.042 | 97.8371b | ppb | 0.0782 | 0.1 | 176780 |
| Ca 370.602 | 83884b | ppb | 83.80 | 0.1 | 243314 |
| Cd 226.502 | 99.4230b | ppb | 0.1974 | 0.2 | 4238.99 |
| Co 228.615 | 98.7568b | ppb | 0.0618 | 0.1 | 1167.91 |
| Cr 267.716 | 103.638b | ppb | 0.0978 | 0.1 | 5765.89 |
| Cu 324.754 | 107.354b | ppb | 0.1809 | 0.2 | 8206.26 |
| Fe 271.441 | 10613.1b | ppb | 6.4528 | 0.1 | 16750.2 |
| K 766.491 | 34468.8b | ppb | 79.8663 | 0.2 | 1544152 |
| Mg 279.078 | 20390.0b | ppb | 6.5369 | 0.0 | 55502.5 |
| Mn 257.610 | 2990.12b | ppb | 4.5892 | 0.2 | 588308 |
| Mo 202.032 | 98.2685b | ppb | 0.3431 | 0.3 | 678.412 |
| Na 330.237 | 363459xb | ppb | 1258.06 | 0.3 | 16326.5 |
| Ni 231.604 | 105.798b | ppb | 0.5727 | 0.5 | 325.917 |
| Pb 220.353 | 100.466b | ppb | 1.5470 | 1.5 | 169.062 |
| Sb 206.834 | 99.8484b | ppb | 2.3998 | 2.4 | 136.846 |
| Se 196.026 | 105.354b | ppb | 5.1884 | 4.9 | 51.1752 |
| Sn 189.925 | 98.0650b | ppb | 4.5048 | 4.6 | 68.6506 |
| Sr 216.596 | 425.348b | ppb | 0.7623 | 0.2 | 5313.17 |
| Ti 334.941 | 106.037b | ppb | 0.1103 | 0.1 | 30882.4 |
| Tl 190.794 | 16.9085b | ppb | 2.0099 | 11.9 | 11.4935 |
| V 292.401 | 100.672b | ppb | 0.1772 | 0.2 | 2600.62 |
| Zn 206.200 | 107.790b | ppb | 0.6254 | 0.6 | 117.859 |

**680-106275-b-1-e ms (Samp)** **10/17/2014, 7:16:56 PM** **Rack 2, Tube 10**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 51.0121 | 51.2705 | 51.2909 |
| Al 308.215 | 6012.84 | 6011.42 | 6012.65 |
| As 188.980 | 100.092 | 102.820 | 102.183 |
| B 249.678 | 261.156 | 261.702 | 263.058 |
| Ba 389.178 | 363.040 | 363.128 | 364.703 |
| Be 313.042 | 49.6340 | 49.9718 | 49.7632 |
| Ca 370.602 | 78545 | 78477 | 78403 |
| Cd 226.502 | 50.5207 | 50.7968 | 50.8342 |
| Co 228.615 | 49.7275 | 48.9607 | 49.7205 |
| Cr 267.716 | 102.276 | 102.379 | 102.254 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 105.586 | 106.179 | 105.606 |
| Fe 271.441 | 5653.50 | 5678.68 | 5680.96 |
| K 766.491 | 28252.0 | 28396.3 | 28348.9 |
| Mg 279.078 | 15539.4 | 15544.7 | 15531.8 |
| Mn 257.610 | 2546.12 | 2544.50 | 2540.05 |
| Mo 202.032 | 96.7596 | 96.6872 | 97.4941 |
| Na 330.237 | 363677x | 362979x | 364103x |
| Ni 231.604 | 106.544 | 105.572 | 105.873 |
| Pb 220.353 | 487.083 | 493.667 | 487.945 |
| Sb 206.834 | 54.5225 | 52.8006 | 53.4177 |
| Se 196.026 | 111.516 | 100.205 | 97.6866 |
| Sn 189.925 | 184.103 | 181.830 | 191.808 |
| Sr 216.596 | 427.229 | 427.044 | 427.176 |
| Ti 334.941 | 105.350 | 104.772 | 105.345 |
| Tl 190.794 | 36.6220 | 35.1819 | 38.8932 |
| V 292.401 | 98.8650 | 99.8014 | 98.8279 |
| Zn 206.200 | 105.649 | 107.235 | 112.363 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 51.1911b | ppb | 0.1554 | 0.3 | 4359.22 |
| Al 308.215 | 6012.30b | ppb | 0.7713 | 0.0 | 40932.8 |
| As 188.980 | 101.698b | ppb | 1.4273 | 1.4 | 63.2178 |
| B 249.678 | 261.972b | ppb | 0.9792 | 0.4 | 4407.39 |
| Ba 389.178 | 363.624b | ppb | 0.9360 | 0.3 | 7771.82 |
| Be 313.042 | 49.7897b | ppb | 0.1705 | 0.3 | 89835.1 |
| Ca 370.602 | 78475b | ppb | 71.25 | 0.1 | 227676 |
| Cd 226.502 | 50.7172b | ppb | 0.1712 | 0.3 | 2167.00 |
| Co 228.615 | 49.4696b | ppb | 0.4407 | 0.9 | 588.262 |
| Cr 267.716 | 102.303b | ppb | 0.0668 | 0.1 | 5688.42 |
| Cu 324.754 | 105.791b | ppb | 0.3368 | 0.3 | 8088.23 |
| Fe 271.441 | 5671.05b | ppb | 15.2385 | 0.3 | 8958.00 |
| K 766.491 | 28332.4b | ppb | 73.5381 | 0.3 | 1269294 |
| Mg 279.078 | 15538.6b | ppb | 6.5302 | 0.0 | 42294.2 |
| Mn 257.610 | 2543.56b | ppb | 3.1461 | 0.1 | 500431 |
| Mo 202.032 | 96.9803b | ppb | 0.4464 | 0.5 | 669.829 |
| Na 330.237 | 363586xb | ppb | 567.323 | 0.2 | 16333.3 |
| Ni 231.604 | 105.996b | ppb | 0.4978 | 0.5 | 326.236 |
| Pb 220.353 | 489.565b | ppb | 3.5785 | 0.7 | 782.090 |
| Sb 206.834 | 53.5803b | ppb | 0.8724 | 1.6 | 70.5972 |
| Se 196.026 | 103.136b | ppb | 7.3659 | 7.1 | 49.9863 |
| Sn 189.925 | 185.913b | ppb | 5.2294 | 2.8 | 135.195 |
| Sr 216.596 | 427.150b | ppb | 0.0950 | 0.0 | 5327.79 |
| Ti 334.941 | 105.156b | ppb | 0.3322 | 0.3 | 30617.0 |
| Tl 190.794 | 36.8990b | ppb | 1.8711 | 5.1 | 34.1557 |
| V 292.401 | 99.1647b | ppb | 0.5516 | 0.6 | 2559.61 |
| Zn 206.200 | 108.416b | ppb | 3.5091 | 3.2 | 118.779 |

**680-106275-b-1-f msd (Samp)** **10/17/2014, 7:21:13 PM** **Rack 2, Tube 11**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 51.7419 | 51.4752 | 51.8093 |
| Al 308.215 | 6109.36 | 6096.80 | 6101.02 |
| As 188.980 | 108.509 | 107.572 | 102.546 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 267.463 | 267.003 | 266.827 |
| Ba 389.178 | 367.836 | 366.333 | 367.435 |
| Be 313.042 | 49.8105 | 49.7209 | 49.8020 |
| Ca 370.602 | 79066 | 78976 | 79047 |
| Cd 226.502 | 51.2481 | 51.1666 | 51.1177 |
| Co 228.615 | 50.0579 | 50.0112 | 49.9690 |
| Cr 267.716 | 103.218 | 103.441 | 103.388 |
| Cu 324.754 | 108.481 | 108.179 | 107.169 |
| Fe 271.441 | 5751.12 | 5731.21 | 5733.67 |
| K 766.491 | 28890.4 | 28888.6 | 28804.1 |
| Mg 279.078 | 15766.1 | 15720.6 | 15708.5 |
| Mn 257.610 | 2567.62 | 2564.86 | 2568.88 |
| Mo 202.032 | 97.8221 | 99.1062 | 97.9597 |
| Na 330.237 | 371250x | 369272x | 368938x |
| Ni 231.604 | 107.689 | 105.598 | 107.374 |
| Pb 220.353 | 500.408 | 501.646 | 502.078 |
| Sb 206.834 | 52.2332 | 52.1949 | 54.3092 |
| Se 196.026 | 108.074 | 102.373 | 94.0692 |
| Sn 189.925 | 189.068 | 187.676 | 185.845 |
| Sr 216.596 | 434.663 | 432.813 | 432.996 |
| Ti 334.941 | 105.909 | 105.714 | 105.907 |
| Tl 190.794 | 37.5165 | 37.3816 | 37.9117 |
| V 292.401 | 100.442 | 100.150 | 100.233 |
| Zn 206.200 | 114.576 | 114.185 | 115.173 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 51.6755b | ppb | 0.1767 | 0.3 | 4400.47 |
| Al 308.215 | 6102.39b | ppb | 6.3892 | 0.1 | 41537.1 |
| As 188.980 | 106.209b | ppb | 3.2068 | 3.0 | 66.2535 |
| B 249.678 | 267.098b | ppb | 0.3282 | 0.1 | 4492.87 |
| Ba 389.178 | 367.201b | ppb | 0.7784 | 0.2 | 7849.18 |
| Be 313.042 | 49.7778b | ppb | 0.0495 | 0.1 | 89813.1 |
| Ca 370.602 | 79030b | ppb | 47.63 | 0.1 | 229286 |
| Cd 226.502 | 51.1774b | ppb | 0.0659 | 0.1 | 2186.65 |
| Co 228.615 | 50.0127b | ppb | 0.0445 | 0.1 | 594.618 |
| Cr 267.716 | 103.349b | ppb | 0.1162 | 0.1 | 5746.33 |
| Cu 324.754 | 107.943b | ppb | 0.6869 | 0.6 | 8247.82 |
| Fe 271.441 | 5738.67b | ppb | 10.8550 | 0.2 | 9064.60 |
| K 766.491 | 28861.0b | ppb | 49.3127 | 0.2 | 1292972 |
| Mg 279.078 | 15731.7b | ppb | 30.3413 | 0.2 | 42819.4 |
| Mn 257.610 | 2567.12b | ppb | 2.0571 | 0.1 | 505067 |
| Mo 202.032 | 98.2960b | ppb | 0.7050 | 0.7 | 678.829 |
| Na 330.237 | 369820xb | ppb | 1249.71 | 0.3 | 16612.8 |
| Ni 231.604 | 106.887b | ppb | 1.1272 | 1.1 | 329.028 |
| Pb 220.353 | 501.377b | ppb | 0.8671 | 0.2 | 800.724 |
| Sb 206.834 | 52.9124b | ppb | 1.2098 | 2.3 | 69.6311 |
| Se 196.026 | 101.505b | ppb | 7.0425 | 6.9 | 49.2283 |
| Sn 189.925 | 187.529b | ppb | 1.6165 | 0.9 | 136.421 |
| Sr 216.596 | 433.491b | ppb | 1.0195 | 0.2 | 5406.73 |
| Ti 334.941 | 105.843b | ppb | 0.1120 | 0.1 | 30817.3 |
| Tl 190.794 | 37.6033b | ppb | 0.2755 | 0.7 | 34.9506 |
| V 292.401 | 100.275b | ppb | 0.1503 | 0.1 | 2588.27 |
| Zn 206.200 | 114.645b | ppb | 0.4973 | 0.4 | 125.616 |

**680-106264-a-5-b (Samp)** **10/17/2014, 7:25:30 PM** **Rack 2, Tube 12**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0693u | -0.3969u | -0.0252u |
| Al 308.215 | -3.1077u | -2.1313u | -3.2442u |
| As 188.980 | 4.8261 | -2.6023u | -0.6644u |
| B 249.678 | 234.894 | 235.720 | 235.102 |
| Ba 389.178 | 170.239 | 170.154 | 169.590 |
| Be 313.042 | -0.0525u | -0.0487u | -0.0486u |
| Ca 370.602 | 75177 | 75084 | 74624 |
| Cd 226.502 | -0.0293u | 0.0228 | 0.0073 |
| Co 228.615 | 0.1791 | 0.3522 | -0.1673u |
| Cr 267.716 | 0.2119 | 0.2588 | 0.2519 |
| Cu 324.754 | 0.9841 | 1.2743 | 0.7695 |
| Fe 271.441 | 37.0916 | 30.6428 | 39.6064 |
| K 766.491 | 7396.48 | 7420.48 | 7426.66 |
| Mg 279.078 | 18954.2 | 18938.1 | 18892.8 |
| Mn 257.610 | 85.7857 | 85.7750 | 85.3900 |
| Mo 202.032 | 0.8395 | 1.2350 | 1.3722 |
| Na 330.237 | 24745.7 | 25009.2 | 24994.9 |
| Ni 231.604 | 1.0562 | 1.7665 | 2.5461 |
| Pb 220.353 | -1.8896u | -0.8927u | 3.3954 |
| Sb 206.834 | -0.7201u | -1.8844u | 4.2326 |
| Se 196.026 | -2.3816u | 1.0369 | 7.4198 |
| Sn 189.925 | 1.0963 | -0.3285u | -0.5649u |
| Sr 216.596 | 422.252 | 420.653 | 417.919 |
| Ti 334.941 | 0.0438 | 0.0296 | 0.0619 |
| Tl 190.794 | 2.2607 | -1.6970u | -0.1477u |
| V 292.401 | -0.3268u | -0.1806u | 0.1245 |
| Zn 206.200 | 5.4087 | 5.1275 | 6.0660 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1638 | ppb | 0.2031 | 124.0 | -35.9519 |
| Al 308.215 | -2.8277 | ppb | 0.6070 | 21.5 | 584.416 |
| As 188.980 | 0.5198 | ppb | 3.8532 | 741.3 | -4.8761 |
| B 249.678 | 235.239 | ppb | 0.4297 | 0.2 | 3972.90 |
| Ba 389.178 | 169.994 | ppb | 0.3524 | 0.2 | 3604.71 |
| Be 313.042 | -0.0500 | ppb | 0.0022 | 4.5 | -306.820 |
| Ca 370.602 | 74962 | ppb | 296.2 | 0.4 | 217442 |
| Cd 226.502 | 0.0003 | ppb | 0.0267 | 9535.2 | 9.7684 |
| Co 228.615 | 0.1213 | ppb | 0.2645 | 218.0 | 8.2238 |
| Cr 267.716 | 0.2409 | ppb | 0.0253 | 10.5 | 48.5935 |
| Cu 324.754 | 1.0093 | ppb | 0.2533 | 25.1 | 318.028 |
| Fe 271.441 | 35.7803 | ppb | 4.6235 | 12.9 | 72.4144 |
| K 766.491 | 7414.54 | ppb | 15.9429 | 0.2 | 332351 |
| Mg 279.078 | 18928.3 | ppb | 31.8434 | 0.2 | 51583.0 |
| Mn 257.610 | 85.6502 | ppb | 0.2254 | 0.3 | 17016.5 |
| Mo 202.032 | 1.1489 | ppb | 0.2766 | 24.1 | 14.2560 |
| Na 330.237 | 24916.6 | ppb | 148.159 | 0.6 | 1143.48 |
| Ni 231.604 | 1.7896 | ppb | 0.7452 | 41.6 | -0.0351 |
| Pb 220.353 | 0.2044 | ppb | 2.8081 | 1374.1 | 9.8282 |
| Sb 206.834 | 0.5427 | ppb | 3.2481 | 598.5 | -4.8961 |
| Se 196.026 | 2.0250 | ppb | 4.9749 | 245.7 | 1.7426 |
| Sn 189.925 | 0.0677 | ppb | 0.8986 | 1328.3 | -5.6897 |
| Sr 216.596 | 420.274 | ppb | 2.1913 | 0.5 | 5238.86 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 0.0451 | ppb | 0.0162 | 35.9 | 13.4605 |
| Tl 190.794 | 0.1386 | ppb | 1.9944 | 1438.5 | -7.4935 |
| V 292.401 | -0.1276 | ppb | 0.2303 | 180.4 | -14.8115 |
| Zn 206.200 | 5.5341 | ppb | 0.4816 | 8.7 | 6.3208 |

**Cont Calib Verif (CCV)** **10/17/2014, 7:29:47 PM** **Rack 2, Tube 13**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 489.592 | 493.049 | 488.393 |
| Al 308.215 | 4821.29 | 4813.43 | 4816.19 |
| As 188.980 | 461.140 | 467.792 | 470.768 |
| B 249.678 | 487.515 | 488.148 | 490.745 |
| Ba 389.178 | 4954.51 | 4952.58 | 4947.94 |
| Be 313.042 | 488.416 | 488.106 | 488.086 |
| Ca 370.602 | 4604 | 4616 | 4628 |
| Cd 226.502 | 506.280 | 505.449 | 505.520 |
| Co 228.615 | 485.140 | 487.930 | 487.402 |
| Cr 267.716 | 4852.78 | 4858.07 | 4860.44 |
| Cu 324.754 | 4978.53 | 4920.58 | 4955.72 |
| Fe 271.441 | 4849.02 | 4837.95 | 4845.89 |
| K 766.491 | 10075.1 | 10022.1 | 10069.5 |
| Mg 279.078 | 4821.37 | 4815.31 | 4818.47 |
| Mn 257.610 | 4712.53 | 4711.87 | 4746.67 |
| Mo 202.032 | 483.827 | 484.619 | 486.008 |
| Na 330.237 | 7923.48 | 7733.67 | 7611.71 |
| Ni 231.604 | 2495.82 | 2497.22 | 2502.55 |
| Pb 220.353 | 500.970 | 505.192 | 504.412 |
| Sb 206.834 | 940.642 | 932.382 | 945.910 |
| Se 196.026 | 4831.53 | 4833.92 | 4847.66 |
| Sn 189.925 | 4830.64 | 4865.68 | 4853.94 |
| Sr 216.596 | 2468.54 | 2467.19 | 2469.41 |
| Ti 334.941 | 488.361 | 487.506 | 488.676 |
| Tl 190.794 | 4900.71 | 4902.20 | 4915.90 |
| V 292.401 | 4717.18 | 4705.07 | 4725.72 |
| Zn 206.200 | 2431.91 | 2426.40 | 2430.40 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 490.345 | ppb | 2.4177 | 0.5 | 41788.1 | 98.06892 |
| Al 308.215 | 4816.97 | ppb | 3.9894 | 0.1 | 33413.7 | 96.33940 |
| As 188.980 | 466.567 | ppb | 4.9294 | 1.1 | 308.659 | 93.31336 |
| B 249.678 | 488.802 | ppb | 1.7115 | 0.4 | 8213.30 | 97.76050 |
| Ba 389.178 | 4951.68 | ppb | 3.3775 | 0.1 | 106534 | 99.03359 |
| Be 313.042 | 488.203 | ppb | 0.1850 | 0.0 | 883377 | 97.64052 |
| Ca 370.602 | 4616 | ppb | 11.74 | 0.3 | 13742 | 92.31596 |
| Cd 226.502 | 505.750 | ppb | 0.4607 | 0.1 | 21352.8 | 101.14992 |
| Co 228.615 | 486.824 | ppb | 1.4821 | 0.3 | 5733.53 | 97.36473 |
| Cr 267.716 | 4857.10 | ppb | 3.9201 | 0.1 | 267418 | 97.14195 |
| Cu 324.754 | 4951.61 | ppb | 29.1904 | 0.6 | 367153 | 99.03225 |
| Fe 271.441 | 4844.28 | ppb | 5.7066 | 0.1 | 7758.09 | 96.88567 |
| K 766.491 | 10055.6 | ppb | 29.1486 | 0.3 | 450647 | 100.55573 |
| Mg 279.078 | 4818.38 | ppb | 3.0278 | 0.1 | 13043.7 | 96.36767 |
| Mn 257.610 | 4723.69 | ppb | 19.9058 | 0.4 | 929146 | 94.47380 |
| Mo 202.032 | 484.818 | ppb | 1.1040 | 0.2 | 3319.30 | 96.96365 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Na 330.237 | 7756.29 | ppb | 157.114 | 2.0 | 314.925 | 103.41715 |
| Ni 231.604 | 2498.53 | ppb | 3.5508 | 0.1 | 7807.75 | 99.94138 |
| Pb 220.353 | 503.525 | ppb | 2.2467 | 0.4 | 807.680 | 100.70496 |
| Sb 206.834 | 939.645 | ppb | 6.8190 | 0.7 | 1386.52 | 93.96445 |
| Se 196.026 | 4837.70 | ppb | 8.7032 | 0.2 | 2279.01 | 96.75405 |
| Sn 189.925 | 4850.08 | ppb | 17.8366 | 0.4 | 3668.24 | 97.00167 |
| Sr 216.596 | 2468.38 | ppb | 1.1214 | 0.0 | 30487.0 | 98.73524 |
| Ti 334.941 | 488.181 | ppb | 0.6054 | 0.1 | 142260 | 97.63622 |
| Tl 190.794 | 4906.27 | ppb | 8.3744 | 0.2 | 5489.00 | 98.12539 |
| V 292.401 | 4715.99 | ppb | 10.3783 | 0.2 | 122882 | 94.31985 |
| Zn 206.200 | 2429.57 | ppb | 2.8475 | 0.1 | 2653.97 | 97.18280 |

**Cont Calib Blank (CCB)** **10/17/2014, 7:34:03 PM** **Rack 2, Tube 14**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.3274u | -0.0007u | 0.1807 |
| Al 308.215 | -8.2297u | -7.8348u | -7.1468u |
| As 188.980 | -0.6767u | -1.8414u | 0.5059 |
| B 249.678 | 8.8775 | 8.5655 | 7.4984 |
| Ba 389.178 | 0.8954 | 0.7958 | 0.6761 |
| Be 313.042 | -0.0077u | -0.0102u | -0.0104u |
| Ca 370.602 | 3.027 | -3.343u | 3.096 |
| Cd 226.502 | 0.1928 | 0.1197 | 0.0328 |
| Co 228.615 | -0.2319u | -0.1580u | 0.0722 |
| Cr 267.716 | 0.3694 | 0.3807 | 0.3184 |
| Cu 324.754 | 0.7313 | 0.6417 | 0.7441 |
| Fe 271.441 | -0.4034u | 0.3345 | -1.5139u |
| K 766.491 | 1.7769 | 1.0455 | 1.2003 |
| Mg 279.078 | -0.4854u | -1.5580u | 2.5940 |
| Mn 257.610 | 0.4689 | 0.4016 | 0.4454 |
| Mo 202.032 | 1.1059 | 1.2198 | 0.6202 |
| Na 330.237 | 59.6467 | -118.563u | 279.309 |
| Ni 231.604 | 0.5599 | 0.6161 | 1.0732 |
| Pb 220.353 | 1.0757 | -0.1594u | -0.9595u |
| Sb 206.834 | 3.5122 | 2.9498 | 6.9353 |
| Se 196.026 | 5.4498 | 2.8002 | -4.7936u |
| Sn 189.925 | -2.4585u | 1.2414 | 0.0847 |
| Sr 216.596 | 0.5052 | 0.1894 | 0.3482 |
| Ti 334.941 | 0.0725 | 0.0757 | 0.0587 |
| Tl 190.794 | 1.6767 | 1.4489 | 1.0132 |
| V 292.401 | 0.3830 | -0.0179u | 0.3757 |
| Zn 206.200 | 1.7075 | 1.8938 | 2.0537 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | -0.0491 | ppb | 0.2575 | 524.0 | -11.0442 | -0.04914 |
| Al 308.215 | -7.7371 | ppb | 0.5480 | 7.1 | 551.423 | -7.73710 |
| As 188.980 | -0.6707 | ppb | 1.1737 | 175.0 | -5.6771 | -0.67073 |
| B 249.678 | 8.3138 | ppb | 0.7232 | 8.7 | 180.660 | 8.31380 |
| Ba 389.178 | 0.7891 | ppb | 0.1098 | 13.9 | -63.6113 | 0.78910 |
| Be 313.042 | -0.0094 | ppb | 0.0015 | 16.0 | -257.111 | -0.00944 |
| Ca 370.602 | 0.9266 | ppb | 3.698 | 399.1 | 23.11 | 0.92658 |
| Cd 226.502 | 0.1151 | ppb | 0.0801 | 69.6 | 14.3573 | 0.11512 |
| Co 228.615 | -0.1059 | ppb | 0.1586 | 149.7 | 5.5547 | -0.10591 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Cr 267.716 | 0.3562 | ppb | 0.0332 | 9.3 | 53.9901 | 0.35619 |
| Cu 324.754 | 0.7057 | ppb | 0.0558 | 7.9 | 295.500 | 0.70571 |
| Fe 271.441 | -0.5276 | ppb | 0.9304 | 176.3 | 15.2227 | -0.52761 |
| K 766.491 | 1.3409 | ppb | 0.3854 | 28.7 | 303.192 | 1.34093 |
| Mg 279.078 | 0.1836 | ppb | 2.1553 | 1174.2 | 23.9856 | 0.18356 |
| Mn 257.610 | 0.4386 | ppb | 0.0341 | 7.8 | 122.519 | 0.43862 |
| Mo 202.032 | 0.9820 | ppb | 0.3184 | 32.4 | 13.1152 | 0.98198 |
| Na 330.237 | 73.4644 | ppb | 199.296 | 271.3 | 29.0571 | 73.46438 |
| Ni 231.604 | 0.7497 | ppb | 0.2815 | 37.5 | -3.2906 | 0.74973 |
| Pb 220.353 | -0.0144 | ppb | 1.0253 | 7116.5 | 9.4631 | -0.01441 |
| Sb 206.834 | 4.4658 | ppb | 2.1571 | 48.3 | 0.7118 | 4.46576 |
| Se 196.026 | 1.1522 | ppb | 5.3169 | 461.5 | 1.3103 | 1.15216 |
| Sn 189.925 | -0.3775 | ppb | 1.8928 | 501.4 | -6.0346 | -0.37748 |
| Sr 216.596 | 0.3476 | ppb | 0.1579 | 45.4 | 10.6389 | 0.34759 |
| Ti 334.941 | 0.0690 | ppb | 0.0090 | 13.1 | -11.5759 | 0.06897 |
| Tl 190.794 | 1.3796 | ppb | 0.3371 | 24.4 | -6.1463 | 1.37962 |
| V 292.401 | 0.2469 | ppb | 0.2294 | 92.9 | -5.0320 | 0.24694 |
| Zn 206.200 | 1.8850 | ppb | 0.1732 | 9.2 | 2.3123 | 1.88501 |

**680-106174-f-3-b (Samp)** **10/17/2014, 7:38:18 PM** **Rack 2, Tube 15**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1669 | 0.0850 | -0.3063u |
| Al 308.215 | 75.1503 | 76.6354 | 77.1435 |
| As 188.980 | -4.3941u | -3.4588u | -5.5896u |
| B 249.678 | 9.7981 | 9.8775 | 9.4862 |
| Ba 389.178 | 26.0356 | 25.5112 | 26.2786 |
| Be 313.042 | 0.0335 | 0.0374 | 0.0351 |
| Ca 370.602 | 521.6 | 533.6 | 531.0 |
| Cd 226.502 | 0.2501 | 0.0216 | 0.1770 |
| Co 228.615 | 0.4717 | 1.0269 | 1.0330 |
| Cr 267.716 | 0.0896 | 0.3346 | 0.1267 |
| Cu 324.754 | 2.1529 | 2.5108 | 2.6592 |
| Fe 271.441 | 11.4979 | 9.9658 | 10.8146 |
| K 766.491 | 706.392 | 711.756 | 714.713 |
| Mg 279.078 | 400.503 | 398.677 | 401.950 |
| Mn 257.610 | 7.0904 | 7.1836 | 7.1222 |
| Mo 202.032 | 0.2377 | 0.2083 | 0.8337 |
| Na 330.237 | 1390.43 | 1344.05 | 1271.70 |
| Ni 231.604 | 1.3097 | 1.8166 | 0.7614 |
| Pb 220.353 | 1.0354 | 3.4093 | -0.5828u |
| Sb 206.834 | 2.2406 | 2.2388 | 0.6100 |
| Se 196.026 | 1.8713 | 1.2352 | -0.5659u |
| Sn 189.925 | 4.7757 | -0.2932u | -0.2219u |
| Sr 216.596 | 5.8676 | 5.7759 | 5.2248 |
| Ti 334.941 | 0.7715 | 1.2129 | 0.9688 |
| Tl 190.794 | -1.3345u | -0.3458u | 2.0648 |
| V 292.401 | 0.1776 | 0.4389 | 0.6004 |
| Zn 206.200 | 6.4633 | 6.0507 | 6.2831 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0181 | ppb | 0.2529 | 1394.9 | -8.5489 |
| Al 308.215 | 76.3097 | ppb | 1.0357 | 1.4 | 1114.84 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | -4.4808 | ppb | 1.0680 | 23.8 | -8.2404 |
| B 249.678 | 9.7206 | ppb | 0.2069 | 2.1 | 204.114 |
| Ba 389.178 | 25.9418 | ppb | 0.3922 | 1.5 | 478.391 |
| Be 313.042 | 0.0353 | ppb | 0.0019 | 5.4 | -175.986 |
| Ca 370.602 | 528.7 | ppb | 6.325 | 1.2 | 1554 |
| Cd 226.502 | 0.1496 | ppb | 0.1166 | 78.0 | 15.8518 |
| Co 228.615 | 0.8439 | ppb | 0.3223 | 38.2 | 16.7498 |
| Cr 267.716 | 0.1836 | ppb | 0.1320 | 71.9 | 44.5564 |
| Cu 324.754 | 2.4410 | ppb | 0.2603 | 10.7 | 424.084 |
| Fe 271.441 | 10.7594 | ppb | 0.7675 | 7.1 | 33.1049 |
| K 766.491 | 710.954 | ppb | 4.2182 | 0.6 | 32087.8 |
| Mg 279.078 | 400.377 | ppb | 1.6398 | 0.4 | 1113.95 |
| Mn 257.610 | 7.1321 | ppb | 0.0474 | 0.7 | 1441.84 |
| Mo 202.032 | 0.4265 | ppb | 0.3529 | 82.7 | 9.3126 |
| Na 330.237 | 1335.39 | ppb | 59.8346 | 4.5 | 85.5566 |
| Ni 231.604 | 1.2959 | ppb | 0.5277 | 40.7 | -1.5834 |
| Pb 220.353 | 1.2873 | ppb | 2.0079 | 156.0 | 11.5163 |
| Sb 206.834 | 1.6965 | ppb | 0.9409 | 55.5 | -3.2348 |
| Se 196.026 | 0.8469 | ppb | 1.2641 | 149.3 | 1.1683 |
| Sn 189.925 | 1.4202 | ppb | 2.9062 | 204.6 | -4.6725 |
| Sr 216.596 | 5.6228 | ppb | 0.3477 | 6.2 | 76.1545 |
| Ti 334.941 | 0.9844 | ppb | 0.2211 | 22.5 | 255.857 |
| Tl 190.794 | 0.1281 | ppb | 1.7485 | 1364.5 | -7.5393 |
| V 292.401 | 0.4056 | ppb | 0.2134 | 52.6 | -0.7867 |
| Zn 206.200 | 6.2657 | ppb | 0.2068 | 3.3 | 7.1260 |

**mb 680-353986/1-b (Samp)** **10/17/2014, 7:42:34 PM** **Rack 2, Tube 16**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0767 | 0.1108 | -0.0258u |
| Al 308.215 | -5.0276u | -4.1571u | -3.4048u |
| As 188.980 | -1.6495u | 1.4901 | -4.1777u |
| B 249.678 | 1.7533 | 2.1980 | 1.8325 |
| Ba 389.178 | 0.7002 | 0.7519 | 0.4199 |
| Be 313.042 | -0.0239u | -0.0241u | -0.0218u |
| Ca 370.602 | 10.24 | 8.042 | 8.898 |
| Cd 226.502 | 0.1223 | 0.0695 | 0.0898 |
| Co 228.615 | 0.1412 | -0.2253u | -0.0405u |
| Cr 267.716 | -0.1037u | 0.1100 | 0.1285 |
| Cu 324.754 | 0.0495 | 0.2797 | 0.2089 |
| Fe 271.441 | 3.5507 | 3.1989 | -5.0855u |
| K 766.491 | 2.9472 | 3.0793 | 2.6567 |
| Mg 279.078 | 3.9496 | -0.5860u | 0.2554 |
| Mn 257.610 | 0.2180 | 0.2162 | 0.2191 |
| Mo 202.032 | 0.3285 | -0.0059u | -0.0301u |
| Na 330.237 | -52.7325u | -140.523u | 4.0776 |
| Ni 231.604 | -0.2865u | 0.4966 | -1.0716u |
| Pb 220.353 | -0.7056u | 2.4638 | 0.8765 |
| Sb 206.834 | -1.5175u | 1.8934 | 0.6653 |
| Se 196.026 | -0.0891u | -0.5855u | -2.3610u |
| Sn 189.925 | 0.3812 | -3.7965u | 1.1317 |
| Sr 216.596 | -0.0744u | -0.0053u | 0.0040 |
| Ti 334.941 | 0.0579 | 0.0254 | -0.0067u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -0.1000u | -1.2528u | 1.5176 |
| V 292.401 | -0.0036u | -0.0637u | -0.2402u |
| Zn 206.200 | 3.7381 | 2.3270 | 3.3690 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0539 | ppb | 0.0711 | 131.9 | -2.2328 |
| Al 308.215 | -4.1965 | ppb | 0.8121 | 19.4 | 575.076 |
| As 188.980 | -1.4457 | ppb | 2.8394 | 196.4 | -6.1984 |
| B 249.678 | 1.9279 | ppb | 0.2372 | 12.3 | 73.8839 |
| Ba 389.178 | 0.6240 | ppb | 0.1786 | 28.6 | -67.1677 |
| Be 313.042 | -0.0233 | ppb | 0.0013 | 5.5 | -282.063 |
| Ca 370.602 | 9.060 | ppb | 1.107 | 12.2 | 46.65 |
| Cd 226.502 | 0.0939 | ppb | 0.0266 | 28.3 | 13.4676 |
| Co 228.615 | -0.0415 | ppb | 0.1832 | 441.3 | 6.3311 |
| Cr 267.716 | 0.0449 | ppb | 0.1291 | 287.4 | 36.8571 |
| Cu 324.754 | 0.1794 | ppb | 0.1179 | 65.7 | 256.469 |
| Fe 271.441 | 0.5547 | ppb | 4.8877 | 881.1 | 16.9125 |
| K 766.491 | 2.8944 | ppb | 0.2162 | 7.5 | 372.774 |
| Mg 279.078 | 1.2064 | ppb | 2.4127 | 200.0 | 26.7750 |
| Mn 257.610 | 0.2177 | ppb | 0.0015 | 0.7 | 79.0920 |
| Mo 202.032 | 0.0975 | ppb | 0.2005 | 205.6 | 7.0614 |
| Na 330.237 | -63.0592 | ppb | 72.8512 | 115.5 | 22.8907 |
| Ni 231.604 | -0.2872 | ppb | 0.7841 | 273.1 | -6.5331 |
| Pb 220.353 | 0.8783 | ppb | 1.5847 | 180.4 | 10.8714 |
| Sb 206.834 | 0.3471 | ppb | 1.7276 | 497.8 | -5.1597 |
| Se 196.026 | -1.0119 | ppb | 1.1945 | 118.0 | 0.2917 |
| Sn 189.925 | -0.7612 | ppb | 2.6553 | 348.8 | -6.3253 |
| Sr 216.596 | -0.0252 | ppb | 0.0428 | 169.6 | 6.0704 |
| Ti 334.941 | 0.0256 | ppb | 0.0323 | 126.3 | -24.2240 |
| Tl 190.794 | 0.0549 | ppb | 1.3917 | 2533.7 | -7.6264 |
| V 292.401 | -0.1025 | ppb | 0.1230 | 120.0 | -14.0240 |
| Zn 206.200 | 3.1447 | ppb | 0.7318 | 23.3 | 3.6975 |

**lcs 680-353986/2-b (Samp)** **10/17/2014, 7:46:50 PM** **Rack 2, Tube 17**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 46.3847 | 46.7148 | 46.7915 |
| Al 308.215 | 4491.03 | 4487.62 | 4499.79 |
| As 188.980 | 96.5760 | 88.4075 | 92.4490 |
| B 249.678 | 179.882 | 180.548 | 182.604 |
| Ba 389.178 | 93.4442 | 94.1809 | 93.9051 |
| Be 313.042 | 46.2430 | 46.2041 | 46.3066 |
| Ca 370.602 | 4373 | 4381 | 4409 |
| Cd 226.502 | 47.6925 | 47.8802 | 48.4820 |
| Co 228.615 | 45.8508 | 46.2709 | 46.2089 |
| Cr 267.716 | 92.1754 | 92.2516 | 92.6440 |
| Cu 324.754 | 91.4412 | 91.3547 | 92.4205 |
| Fe 271.441 | 4586.50 | 4574.88 | 4600.77 |
| K 766.491 | 4812.32 | 4795.50 | 4822.62 |
| Mg 279.078 | 4480.81 | 4476.46 | 4492.01 |
| Mn 257.610 | 458.788 | 460.738 | 462.784 |
| Mo 202.032 | 90.6549 | 90.0718 | 90.6634 |
| Na 330.237 | 4424.48 | 4469.18 | 4195.44 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 94.0002 | 91.5062 | 91.7096 |
| Pb 220.353 | 474.670 | 469.474 | 473.798 |
| Sb 206.834 | 47.3379 | 45.9513 | 47.0711 |
| Se 196.026 | 82.5749 | 83.4688 | 87.1828 |
| Sn 189.925 | 178.660 | 185.748 | 181.110 |
| Sr 216.596 | 91.9422 | 92.0227 | 91.4389 |
| Ti 334.941 | 92.6366 | 92.5673 | 92.7085 |
| Tl 190.794 | 35.2992 | 38.3355 | 40.1694 |
| V 292.401 | 90.3040 | 89.6484 | 90.1350 |
| Zn 206.200 | 94.2441 | 95.8694 | 97.0791 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 46.6303 | ppb | 0.2161 | 0.5 | 3971.24 |
| Al 308.215 | 4492.81 | ppb | 6.2767 | 0.1 | 30743.4 |
| As 188.980 | 92.4775 | ppb | 4.0843 | 4.4 | 57.0048 |
| B 249.678 | 181.011 | ppb | 1.4191 | 0.8 | 3056.74 |
| Ba 389.178 | 93.8434 | ppb | 0.3722 | 0.4 | 1948.68 |
| Be 313.042 | 46.2512 | ppb | 0.0517 | 0.1 | 83446.2 |
| Ca 370.602 | 4387 | ppb | 18.71 | 0.4 | 12745 |
| Cd 226.502 | 48.0182 | ppb | 0.4125 | 0.9 | 2051.22 |
| Co 228.615 | 46.1102 | ppb | 0.2268 | 0.5 | 548.586 |
| Cr 267.716 | 92.3570 | ppb | 0.2514 | 0.3 | 5122.63 |
| Cu 324.754 | 91.7388 | ppb | 0.5920 | 0.6 | 7046.25 |
| Fe 271.441 | 4587.39 | ppb | 12.9680 | 0.3 | 7250.18 |
| K 766.491 | 4810.15 | ppb | 13.6925 | 0.3 | 215697 |
| Mg 279.078 | 4483.09 | ppb | 8.0213 | 0.2 | 12224.0 |
| Mn 257.610 | 460.770 | ppb | 1.9981 | 0.4 | 90705.1 |
| Mo 202.032 | 90.4634 | ppb | 0.3391 | 0.4 | 625.283 |
| Na 330.237 | 4363.03 | ppb | 146.854 | 3.4 | 218.100 |
| Ni 231.604 | 92.4053 | ppb | 1.3849 | 1.5 | 283.644 |
| Pb 220.353 | 472.647 | ppb | 2.7824 | 0.6 | 754.930 |
| Sb 206.834 | 46.7868 | ppb | 0.7357 | 1.6 | 60.8556 |
| Se 196.026 | 84.4088 | ppb | 2.4435 | 2.9 | 40.6527 |
| Sn 189.925 | 181.839 | ppb | 3.6002 | 2.0 | 131.998 |
| Sr 216.596 | 91.8013 | ppb | 0.3164 | 0.3 | 1146.17 |
| Ti 334.941 | 92.6375 | ppb | 0.0706 | 0.1 | 26976.4 |
| Tl 190.794 | 37.9347 | ppb | 2.4597 | 6.5 | 34.3324 |
| V 292.401 | 90.0292 | ppb | 0.3404 | 0.4 | 2324.43 |
| Zn 206.200 | 95.7309 | ppb | 1.4226 | 1.5 | 104.924 |

**lcsd 680-353986/3 (Samp)** **10/17/2014, 7:51:05 PM** **Rack 2, Tube 18**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 49.6174 | 50.1158 | 49.6349 |
| Al 308.215 | 4822.39 | 4824.25 | 4810.13 |
| As 188.980 | 99.5855 | 99.1479 | 97.8287 |
| B 249.678 | 197.316 | 197.923 | 197.658 |
| Ba 389.178 | 100.513 | 99.9286 | 101.765 |
| Be 313.042 | 49.3401 | 49.3861 | 49.3154 |
| Ca 370.602 | 4741 | 4740 | 4713 |
| Cd 226.502 | 51.9582 | 52.0122 | 51.7994 |
| Co 228.615 | 49.4793 | 49.3148 | 49.9915 |
| Cr 267.716 | 100.344 | 99.9106 | 99.7325 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 99.6603 | 98.4559 | 98.4169 |
| Fe 271.441 | 4950.98 | 4955.12 | 4942.47 |
| K 766.491 | 5203.89 | 5210.29 | 5203.46 |
| Mg 279.078 | 4840.47 | 4850.17 | 4832.65 |
| Mn 257.610 | 498.371 | 498.774 | 495.929 |
| Mo 202.032 | 96.8948 | 97.0452 | 97.2496 |
| Na 330.237 | 4661.82 | 4874.50 | 4893.94 |
| Ni 231.604 | 101.778 | 101.392 | 100.508 |
| Pb 220.353 | 511.638 | 507.735 | 506.030 |
| Sb 206.834 | 51.9777 | 50.7053 | 54.0436 |
| Se 196.026 | 95.6519 | 98.6792 | 88.8141 |
| Sn 189.925 | 196.370 | 193.312 | 197.578 |
| Sr 216.596 | 99.5546 | 99.6041 | 99.3605 |
| Ti 334.941 | 99.7283 | 100.348 | 100.087 |
| Tl 190.794 | 41.3168 | 43.9211 | 41.2694 |
| V 292.401 | 97.0167 | 96.7681 | 96.9213 |
| Zn 206.200 | 102.034 | 102.150 | 104.660 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 49.7894 | ppb | 0.2828 | 0.6 | 4240.72 |
| Al 308.215 | 4818.92 | ppb | 7.6703 | 0.2 | 32931.3 |
| As 188.980 | 98.8540 | ppb | 0.9145 | 0.9 | 61.2955 |
| B 249.678 | 197.633 | ppb | 0.3040 | 0.2 | 3333.75 |
| Ba 389.178 | 100.736 | ppb | 0.9385 | 0.9 | 2097.79 |
| Be 313.042 | 49.3472 | ppb | 0.0359 | 0.1 | 89047.9 |
| Ca 370.602 | 4731 | ppb | 16.00 | 0.3 | 13742 |
| Cd 226.502 | 51.9233 | ppb | 0.1106 | 0.2 | 2217.21 |
| Co 228.615 | 49.5952 | ppb | 0.3530 | 0.7 | 589.535 |
| Cr 267.716 | 99.9957 | ppb | 0.3145 | 0.3 | 5543.46 |
| Cu 324.754 | 98.8444 | ppb | 0.7069 | 0.7 | 7573.18 |
| Fe 271.441 | 4949.52 | ppb | 6.4521 | 0.1 | 7821.22 |
| K 766.491 | 5205.88 | ppb | 3.8259 | 0.1 | 233422 |
| Mg 279.078 | 4841.10 | ppb | 8.7782 | 0.2 | 13198.3 |
| Mn 257.610 | 497.691 | ppb | 1.5394 | 0.3 | 97970.4 |
| Mo 202.032 | 97.0632 | ppb | 0.1781 | 0.2 | 670.433 |
| Na 330.237 | 4810.09 | ppb | 128.773 | 2.7 | 237.881 |
| Ni 231.604 | 101.226 | ppb | 0.6511 | 0.6 | 311.254 |
| Pb 220.353 | 508.468 | ppb | 2.8744 | 0.6 | 811.427 |
| Sb 206.834 | 52.2422 | ppb | 1.6848 | 3.2 | 68.6275 |
| Se 196.026 | 94.3817 | ppb | 5.0537 | 5.4 | 45.3590 |
| Sn 189.925 | 195.753 | ppb | 2.1989 | 1.1 | 142.538 |
| Sr 216.596 | 99.5064 | ppb | 0.1287 | 0.1 | 1241.81 |
| Ti 334.941 | 100.054 | ppb | 0.3109 | 0.3 | 29138.8 |
| Tl 190.794 | 42.1691 | ppb | 1.5175 | 3.6 | 39.0360 |
| V 292.401 | 96.9021 | ppb | 0.1254 | 0.1 | 2502.71 |
| Zn 206.200 | 102.948 | ppb | 1.4836 | 1.4 | 112.813 |

**680-106035-b-1-f (Samp)** **10/17/2014, 7:55:22 PM** **Rack 2, Tube 19**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1610u | -0.0273u | -0.2311u |
| Al 308.215 | 867.050 | 867.090 | 865.842 |
| As 188.980 | 3.0859 | 4.5237 | -2.6413u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 66.1680 | 65.3883 | 65.2448 |
| Ba 389.178 | 241.379 | 241.699 | 241.138 |
| Be 313.042 | 0.0134 | 0.0060u | 0.0078 |
| Ca 370.602 | 64412 | 64425 | 64790 |
| Cd 226.502 | 0.0562 | 0.2604 | 0.0445 |
| Co 228.615 | 0.7318 | 1.3004 | 1.1642 |
| Cr 267.716 | 2.2731 | 2.2368 | 2.4705 |
| Cu 324.754 | 2.0614 | 1.9119 | 1.9809 |
| Fe 271.441 | 950.089 | 957.010 | 956.957 |
| K 766.491 | 21272.5 | 21298.1 | 21280.2 |
| Mg 279.078 | 10407.6 | 10429.5 | 10438.9 |
| Mn 257.610 | 1867.80 | 1869.40 | 1880.19 |
| Mo 202.032 | 2.1836 | 1.8878 | 1.7333 |
| Na 330.237 | 324346x | 326085x | 324422x |
| Ni 231.604 | 8.2567 | 7.3678 | 8.3449 |
| Pb 220.353 | 1.7250 | 1.3553 | 1.5575 |
| Sb 206.834 | -1.3266u | 1.0656 | -0.8083u |
| Se 196.026 | 0.9534 | -1.6697u | -2.4717u |
| Sn 189.925 | -3.0252u | 1.7776 | 3.7470 |
| Sr 216.596 | 314.724 | 316.368 | 314.123 |
| Ti 334.941 | 8.6533 | 8.6900 | 8.6186 |
| Tl 190.794 | -2.1071u | 1.6869 | -3.5272u |
| V 292.401 | 5.7093 | 5.2437 | 5.3815 |
| Zn 206.200 | 12.2190 | 11.9924 | 10.9779 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1398b | ppb | 0.1035 | 74.1 | -20.3397 |
| Al 308.215 | 866.661b | ppb | 0.7091 | 0.1 | 6415.32 |
| As 188.980 | 1.6561b | ppb | 3.7904 | 228.9 | -4.1083 |
| B 249.678 | 65.6004b | ppb | 0.4968 | 0.8 | 1135.82 |
| Ba 389.178 | 241.405b | ppb | 0.2812 | 0.1 | 5130.78 |
| Be 313.042 | 0.0091b | ppb | 0.0038 | 42.3 | -236.429 |
| Ca 370.602 | 64542b | ppb | 214.8 | 0.3 | 187262 |
| Cd 226.502 | 0.1204b | ppb | 0.1214 | 100.8 | 16.2806 |
| Co 228.615 | 1.0654b | ppb | 0.2969 | 27.9 | 19.5659 |
| Cr 267.716 | 2.3268b | ppb | 0.1258 | 5.4 | 179.006 |
| Cu 324.754 | 1.9847b | ppb | 0.0748 | 3.8 | 390.664 |
| Fe 271.441 | 954.685b | ppb | 3.9808 | 0.4 | 1520.38 |
| K 766.491 | 21283.6b | ppb | 13.1270 | 0.1 | 953567 |
| Mg 279.078 | 10425.3b | ppb | 16.0238 | 0.2 | 28381.5 |
| Mn 257.610 | 1872.46b | ppb | 6.7353 | 0.4 | 368391 |
| Mo 202.032 | 1.9349b | ppb | 0.2288 | 11.8 | 19.5867 |
| Na 330.237 | 324951xb | ppb | 983.185 | 0.3 | 14603.5 |
| Ni 231.604 | 7.9898b | ppb | 0.5405 | 6.8 | 19.4319 |
| Pb 220.353 | 1.5459b | ppb | 0.1851 | 12.0 | 12.3724 |
| Sb 206.834 | -0.3564b | ppb | 1.2585 | 353.1 | -6.1352 |
| Se 196.026 | -1.0627b | ppb | 1.7914 | 168.6 | 0.7386 |
| Sn 189.925 | 0.8331b | ppb | 3.4835 | 418.1 | -5.0167 |
| Sr 216.596 | 315.072b | ppb | 1.1621 | 0.4 | 3933.49 |
| Ti 334.941 | 8.6539b | ppb | 0.0357 | 0.4 | 2484.08 |
| Tl 190.794 | -1.3158b | ppb | 2.6956 | 204.9 | -8.2584 |
| V 292.401 | 5.4448b | ppb | 0.2391 | 4.4 | 128.712 |
| Zn 206.200 | 11.7298b | ppb | 0.6609 | 5.6 | 13.0787 |

**680-106035-b-1-fSD (Samp)** **10/17/2014, 7:59:38 PM** **Rack 2, Tube 20**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2555u | -0.0903u | -0.0319u |
| Al 308.215 | 159.084 | 160.476 | 158.576 |
| As 188.980 | -4.3112u | -2.0542u | 1.1623 |
| B 249.678 | 14.3192 | 14.2961 | 14.1705 |
| Ba 389.178 | 48.9403 | 49.5697 | 49.0790 |
| Be 313.042 | -0.0282u | -0.0299u | -0.0295u |
| Ca 370.602 | 12725 | 12739 | 12677 |
| Cd 226.502 | 0.1169 | 0.1970 | 0.0088 |
| Co 228.615 | 0.3021 | 0.0472 | 0.0598 |
| Cr 267.716 | 0.4588 | 0.3861 | 0.3633 |
| Cu 324.754 | 0.5686 | 0.5606 | 0.6221 |
| Fe 271.441 | 193.087 | 196.272 | 191.744 |
| K 766.491 | 3588.60 | 3589.61 | 3583.33 |
| Mg 279.078 | 2103.68 | 2094.86 | 2100.31 |
| Mn 257.610 | 374.629 | 374.996 | 372.439 |
| Mo 202.032 | 0.7035 | 0.5295 | 0.3544 |
| Na 330.237 | 57098.3 | 56793.2 | 56885.3 |
| Ni 231.604 | 1.5584 | 0.6269 | 0.5167 |
| Pb 220.353 | 1.9033 | -1.0191u | 0.2220 |
| Sb 206.834 | 1.7748 | 0.2936 | 3.6798 |
| Se 196.026 | 6.4890 | -0.0967 | 5.6544 |
| Sn 189.925 | 0.3208 | -0.7309u | 1.0753 |
| Sr 216.596 | 62.8331 | 62.6388 | 63.2885 |
| Ti 334.941 | 1.7694 | 1.7647 | 1.8183 |
| Tl 190.794 | -1.4704u | 0.1428 | 0.2557 |
| V 292.401 | 0.8788 | 1.2828 | 0.4934 |
| Zn 206.200 | 2.4881 | 1.8032 | 2.6061 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1259 | ppb | 0.1160 | 92.1 | -17.8850 |
| Al 308.215 | 159.379 | ppb | 0.9835 | 0.6 | 1672.09 |
| As 188.980 | -1.7344 | ppb | 2.7508 | 158.6 | -6.3923 |
| B 249.678 | 14.2619 | ppb | 0.0800 | 0.6 | 279.597 |
| Ba 389.178 | 49.1963 | ppb | 0.3307 | 0.7 | 981.406 |
| Be 313.042 | -0.0292 | ppb | 0.0009 | 3.1 | -294.527 |
| Ca 370.602 | 12714 | ppb | 32.32 | 0.3 | 36904 |
| Cd 226.502 | 0.1076 | ppb | 0.0944 | 87.8 | 14.4514 |
| Co 228.615 | 0.1364 | ppb | 0.1437 | 105.3 | 8.4666 |
| Cr 267.716 | 0.4027 | ppb | 0.0499 | 12.4 | 59.7043 |
| Cu 324.754 | 0.5838 | ppb | 0.0334 | 5.7 | 286.523 |
| Fe 271.441 | 193.701 | ppb | 2.3257 | 1.2 | 321.257 |
| K 766.491 | 3587.18 | ppb | 3.3737 | 0.1 | 160918 |
| Mg 279.078 | 2099.62 | ppb | 4.4506 | 0.2 | 5734.73 |
| Mn 257.610 | 374.022 | ppb | 1.3824 | 0.4 | 73614.6 |
| Mo 202.032 | 0.5291 | ppb | 0.1746 | 33.0 | 10.0055 |
| Na 330.237 | 56925.6 | ppb | 156.509 | 0.3 | 2579.53 |
| Ni 231.604 | 0.9007 | ppb | 0.5723 | 63.5 | -2.8020 |
| Pb 220.353 | 0.3687 | ppb | 1.4667 | 397.8 | 10.1580 |
| Sb 206.834 | 1.9161 | ppb | 1.6975 | 88.6 | -2.9145 |
| Se 196.026 | 4.0156 | ppb | 3.5857 | 89.3 | 2.7522 |
| Sn 189.925 | 0.2217 | ppb | 0.9072 | 409.1 | -5.5631 |
| Sr 216.596 | 62.9201 | ppb | 0.3335 | 0.5 | 790.555 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 1.7841 | ppb | 0.0297 | 1.7 | 487.686 |
| Tl 190.794 | -0.3573 | ppb | 0.9656 | 270.3 | -7.9082 |
| V 292.401 | 0.8850 | ppb | 0.3948 | 44.6 | 11.4035 |
| Zn 206.200 | 2.2991 | ppb | 0.4335 | 18.9 | 2.7580 |

**680-106035-b-1-fPDS (Samp)** **10/17/2014, 8:03:54 PM** **Rack 2, Tube 21**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 100.503 | 98.2631 | 96.8128 |
| Al 308.215 | 1899.73 | 1876.50 | 1870.54 |
| As 188.980 | 101.604 | 93.9243 | 95.4939 |
| B 249.678 | 258.502 | 256.418 | 255.722 |
| Ba 389.178 | 332.687 | 330.336 | 329.785 |
| Be 313.042 | 96.2258 | 93.9632 | 92.7856 |
| Ca 370.602 | 76812 | 76418 | 76468 |
| Cd 226.502 | 98.5458 | 96.1668 | 94.7436 |
| Co 228.615 | 96.3366 | 94.9781 | 92.9797 |
| Cr 267.716 | 99.2428 | 96.9836 | 95.8888 |
| Cu 324.754 | 102.745 | 100.935 | 99.4972 |
| Fe 271.441 | 10558.5 | 10359.8 | 10228.3 |
| K 766.491 | 34618.6 | 34426.1 | 34296.1 |
| Mg 279.078 | 20300.0 | 20088.4 | 19997.3 |
| Mn 257.610 | 2849.47 | 2817.52 | 2821.43 |
| Mo 202.032 | 96.4004 | 94.8169 | 93.4627 |
| Na 330.237 | 352838x | 351875x | 351979x |
| Ni 231.604 | 103.585 | 102.496 | 98.2144 |
| Pb 220.353 | 94.4252 | 94.4659 | 95.5726 |
| Sb 206.834 | 100.463 | 97.4130 | 96.7672 |
| Se 196.026 | 107.256 | 97.4476 | 95.2758 |
| Sn 189.925 | 96.6955 | 90.8420 | 90.3647 |
| Sr 216.596 | 421.078 | 419.132 | 418.205 |
| Ti 334.941 | 106.109 | 103.859 | 103.126 |
| Tl 190.794 | 15.2959 | 15.3396 | 15.8508 |
| V 292.401 | 99.8960 | 97.7605 | 96.7332 |
| Zn 206.200 | 111.827 | 108.387 | 107.227 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 98.5264b | ppb | 1.8592 | 1.9 | 8399.75 |
| Al 308.215 | 1882.26b | ppb | 15.4252 | 0.8 | 13253.8 |
| As 188.980 | 97.0073b | ppb | 4.0572 | 4.2 | 59.9858 |
| B 249.678 | 256.880b | ppb | 1.4464 | 0.6 | 4312.02 |
| Ba 389.178 | 330.936b | ppb | 1.5414 | 0.5 | 7076.94 |
| Be 313.042 | 94.3249b | ppb | 1.7484 | 1.9 | 170424 |
| Ca 370.602 | 76566b | ppb | 214.4 | 0.3 | 222089 |
| Cd 226.502 | 96.4854b | ppb | 1.9210 | 2.0 | 4114.39 |
| Co 228.615 | 94.7647b | ppb | 1.6886 | 1.8 | 1121.02 |
| Cr 267.716 | 97.3717b | ppb | 1.7104 | 1.8 | 5419.98 |
| Cu 324.754 | 101.059b | ppb | 1.6277 | 1.6 | 7739.56 |
| Fe 271.441 | 10382.2b | ppb | 166.223 | 1.6 | 16386.0 |
| K 766.491 | 34446.9b | ppb | 162.266 | 0.5 | 1543172 |
| Mg 279.078 | 20128.6b | ppb | 155.299 | 0.8 | 54792.6 |
| Mn 257.610 | 2829.47b | ppb | 17.4261 | 0.6 | 556711 |
| Mo 202.032 | 94.8934b | ppb | 1.4703 | 1.5 | 655322 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 352231xb | ppb | 528.497 | 0.2 | 15822.8 |
| Ni 231.604 | 101.432b | ppb | 2.8389 | 2.8 | 312.250 |
| Pb 220.353 | 94.8212b | ppb | 0.6510 | 0.7 | 160.126 |
| Sb 206.834 | 98.2145b | ppb | 1.9741 | 2.0 | 134.490 |
| Se 196.026 | 99.9932b | ppb | 6.3830 | 6.4 | 48.6233 |
| Sn 189.925 | 92.6341b | ppb | 3.5254 | 3.8 | 64.5320 |
| Sr 216.596 | 419.471b | ppb | 1.4661 | 0.3 | 5238.03 |
| Ti 334.941 | 104.364b | ppb | 1.5545 | 1.5 | 30395.7 |
| Tl 190.794 | 15.4954b | ppb | 0.3085 | 2.0 | 9.8826 |
| V 292.401 | 98.1299b | ppb | 1.6135 | 1.6 | 2534.92 |
| Zn 206.200 | 109.147b | ppb | 2.3923 | 2.2 | 119.377 |

**mb 680-353970/1-a (Samp)** **10/17/2014, 8:08:11 PM** **Rack 2, Tube 22**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates | Concentration | |
|---|---|---|---|
| Ag 328.068 | -0.1956u | 0.1486 | 0.3528 |
| Al 308.215 | -8.4303u | -7.6824u | -6.9806u |
| As 188.980 | -0.6422u | 1.1631 | -2.0626u |
| B 249.678 | 4.6122 | 4.2546 | 4.0374 |
| Ba 389.178 | 0.6711 | 0.3063 | -0.0171u |
| Be 313.042 | -0.0171u | -0.0243u | -0.0239u |
| Ca 370.602 | 14.28 | 14.88 | 10.58 |
| Cd 226.502 | 0.1232 | 0.2679 | 0.0806 |
| Co 228.615 | -0.4384u | -0.2472u | 0.0404 |
| Cr 267.716 | 0.0820 | -0.0037u | 0.0274 |
| Cu 324.754 | 0.0761 | 0.1543 | 0.2449 |
| Fe 271.441 | 4.6305 | 4.1191 | 6.0238 |
| K 766.491 | 5.6738 | 5.6297 | 3.3148 |
| Mg 279.078 | 2.6091 | 5.7391 | 4.7909 |
| Mn 257.610 | 0.5400 | 0.5423 | 0.4308 |
| Mo 202.032 | 0.4349 | 0.4441 | -0.1408u |
| Na 330.237 | -26.1228u | 114.639 | 209.868 |
| Ni 231.604 | 0.7332 | 0.2982 | 0.3343 |
| Pb 220.353 | -0.9252u | 0.1531 | 0.7239 |
| Sb 206.834 | 0.1747 | 0.7131 | 1.9251 |
| Se 196.026 | -2.3130u | -4.8484u | -6.0439u |
| Sn 189.925 | 0.1086 | 0.0044 | -1.4841u |
| Sr 216.596 | 0.1393 | 0.7733 | 0.2835 |
| Ti 334.941 | 0.0563 | 0.0467 | 0.0124 |
| Tl 190.794 | 0.5137 | -1.7212u | 0.0813 |
| V 292.401 | -0.3855u | -0.2470u | -0.1708u |
| Zn 206.200 | 2.3763 | 3.3595 | 3.8271 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.1019 | ppb | 0.2771 | 271.9 | 1.8619 |
| Al 308.215 | -7.6978 | ppb | 0.7250 | 9.4 | 551.609 |
| As 188.980 | -0.5139 | ppb | 1.6167 | 314.6 | -5.5714 |
| B 249.678 | 4.3014 | ppb | 0.2902 | 6.7 | 113.566 |
| Ba 389.178 | 0.3201 | ppb | 0.3443 | 107.6 | -73.7053 |
| Be 313.042 | -0.0218 | ppb | 0.0040 | 18.5 | -279.314 |
| Ca 370.602 | 13.25 | ppb | 2.329 | 17.6 | 58.77 |
| Cd 226.502 | 0.1572 | ppb | 0.0981 | 62.4 | 16.1481 |
| Co 228.615 | -0.2151 | ppb | 0.2410 | 112.0 | 4.2894 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 0.0352 | ppb | 0.0434 | 123.2 | 36.3268 |
| Cu 324.754 | 0.1584 | ppb | 0.0845 | 53.3 | 254.922 |
| Fe 271.441 | 4.9245 | ppb | 0.9858 | 20.0 | 23.7977 |
| K 766.491 | 4.8728 | ppb | 1.3495 | 27.7 | 461.388 |
| Mg 279.078 | 4.3797 | ppb | 1.6050 | 36.6 | 35.4141 |
| Mn 257.610 | 0.5044 | ppb | 0.0637 | 12.6 | 135.485 |
| Mo 202.032 | 0.2461 | ppb | 0.3350 | 136.2 | 8.0782 |
| Na 330.237 | 99.4614 | ppb | 118.725 | 119.4 | 30.1920 |
| Ni 231.604 | 0.4553 | ppb | 0.2414 | 53.0 | -4.2110 |
| Pb 220.353 | -0.0161 | ppb | 0.8375 | 5207.7 | 9.4615 |
| Sb 206.834 | 0.9376 | ppb | 0.8965 | 95.6 | -4.3179 |
| Se 196.026 | -4.4018 | ppb | 1.9051 | 43.3 | -1.3038 |
| Sn 189.925 | -0.4570 | ppb | 0.8910 | 195.0 | -6.0949 |
| Sr 216.596 | 0.3987 | ppb | 0.3323 | 83.4 | 11.3012 |
| Ti 334.941 | 0.0385 | ppb | 0.0231 | 59.9 | -20.4600 |
| Tl 190.794 | -0.3754 | ppb | 1.1854 | 315.8 | -8.1081 |
| V 292.401 | -0.2677 | ppb | 0.1088 | 40.7 | -18.3508 |
| Zn 206.200 | 3.1876 | ppb | 0.7405 | 23.2 | 3.7447 |

**llcs 680-353970/2-a (Samp)** **10/17/2014, 8:12:27 PM** **Rack 2, Tube 23**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 10.4359 | 10.3698 | 10.0585 |
| Al 308.215 | 200.860 | 199.004 | 196.646 |
| As 188.980 | 20.3249 | 14.8144 | 18.1280 |
| B 249.678 | 102.179 | 103.066 | 102.392 |
| Ba 389.178 | 10.6258 | 10.6201 | 11.3431 |
| Be 313.042 | 4.0472 | 4.0350 | 4.0084 |
| Ca 370.602 | 501.9 | 495.8 | 495.0 |
| Cd 226.502 | 5.5640 | 5.5902 | 5.3241 |
| Co 228.615 | 10.5998 | 10.4930 | 9.6738 |
| Cr 267.716 | 10.5411 | 10.3684 | 10.4504 |
| Cu 324.754 | 21.0194 | 21.5112 | 21.5169 |
| Fe 271.441 | 55.1394 | 51.8234 | 56.7252 |
| K 766.491 | 1105.81 | 1109.22 | 1097.58 |
| Mg 279.078 | 507.375 | 510.079 | 505.177 |
| Mn 257.610 | 10.6444 | 10.6535 | 10.5555 |
| Mo 202.032 | 10.0075 | 10.0298 | 9.9039 |
| Na 330.237 | 1243.40 | 1085.16 | 1176.92 |
| Ni 231.604 | 42.1340 | 42.4110 | 40.9438 |
| Pb 220.353 | 9.7399 | 11.1702 | 11.5405 |
| Sb 206.834 | 23.9853 | 21.5778 | 22.7233 |
| Se 196.026 | 19.0267 | 20.4560 | 20.0731 |
| Sn 189.925 | 51.7881 | 52.4852 | 48.1123 |
| Sr 216.596 | 10.2602 | 10.3420 | 9.8154 |
| Ti 334.941 | 10.3996 | 10.3809 | 10.2958 |
| Tl 190.794 | 27.8849 | 24.0511 | 22.4581 |
| V 292.401 | 9.9391 | 9.8335 | 10.0219 |
| Zn 206.200 | 23.6104 | 23.1718 | 23.6080 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 10.2880 | ppb | 0.2015 | 2.0 | 870.866 |
| Al 308.215 | 198.836 | ppb | 2.1119 | 1.1 | 1937.76 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 17.7558 | ppb | 2.7740 | 15.6 | 6.7234 |
| B 249.678 | 102.545 | ppb | 0.4632 | 0.5 | 1755.59 |
| Ba 389.178 | 10.8630 | ppb | 0.4158 | 3.8 | 154.030 |
| Be 313.042 | 4.0302 | ppb | 0.0198 | 0.5 | 7051.98 |
| Ca 370.602 | 497.6 | ppb | 3.761 | 0.8 | 1468 |
| Cd 226.502 | 5.4927 | ppb | 0.1467 | 2.7 | 241.311 |
| Co 228.615 | 10.2556 | ppb | 0.5066 | 4.9 | 127.282 |
| Cr 267.716 | 10.4533 | ppb | 0.0864 | 0.8 | 609.860 |
| Cu 324.754 | 21.3492 | ppb | 0.2856 | 1.3 | 1825.63 |
| Fe 271.441 | 54.5627 | ppb | 2.5013 | 4.6 | 103.396 |
| K 766.491 | 1104.20 | ppb | 5.9833 | 0.5 | 49702.1 |
| Mg 279.078 | 507.544 | ppb | 2.4554 | 0.5 | 1405.75 |
| Mn 257.610 | 10.6178 | ppb | 0.0541 | 0.5 | 2128.30 |
| Mo 202.032 | 9.9804 | ppb | 0.0672 | 0.7 | 74.6945 |
| Na 330.237 | 1168.49 | ppb | 79.4520 | 6.8 | 77.6270 |
| Ni 231.604 | 41.8296 | ppb | 0.7795 | 1.9 | 125.166 |
| Pb 220.353 | 10.8169 | ppb | 0.9509 | 8.8 | 26.5305 |
| Sb 206.834 | 22.7621 | ppb | 1.2042 | 5.3 | 26.8089 |
| Se 196.026 | 19.8519 | ppb | 0.7399 | 3.7 | 10.1149 |
| Sn 189.925 | 50.7952 | ppb | 2.3494 | 4.6 | 32.7295 |
| Sr 216.596 | 10.1392 | ppb | 0.2834 | 2.8 | 130.828 |
| Ti 334.941 | 10.3588 | ppb | 0.0553 | 0.5 | 2988.28 |
| Tl 190.794 | 24.7980 | ppb | 2.7894 | 11.2 | 20.0574 |
| V 292.401 | 9.9315 | ppb | 0.0944 | 1.0 | 246.156 |
| Zn 206.200 | 23.4634 | ppb | 0.2525 | 1.1 | 25.9883 |

**lcs 680-353970/4-a (Samp)** **10/17/2014, 8:16:45 PM** **Rack 2, Tube 24**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 20.2039 | 20.0724 | 19.9004 |
| Al 308.215 | 1927.17 | 1925.40 | 1916.27 |
| As 188.980 | 35.6504 | 35.9162 | 37.1060 |
| B 249.678 | 80.6572 | 79.8513 | 80.3543 |
| Ba 389.178 | 40.3389 | 41.0124 | 39.9531 |
| Be 313.042 | 19.8582 | 19.8501 | 19.7843 |
| Ca 370.602 | 1905 | 1910 | 1912 |
| Cd 226.502 | 20.6231 | 20.7624 | 20.7631 |
| Co 228.615 | 19.8259 | 19.6738 | 20.0211 |
| Cr 267.716 | 40.1759 | 40.1057 | 39.9264 |
| Cu 324.754 | 40.4970 | 40.9159 | 40.2495 |
| Fe 271.441 | 2023.39 | 2015.13 | 2010.88 |
| K 766.491 | 2106.97 | 2097.15 | 2088.30 |
| Mg 279.078 | 1961.16 | 1958.69 | 1950.38 |
| Mn 257.610 | 202.665 | 202.408 | 201.711 |
| Mo 202.032 | 38.5340 | 38.9475 | 39.0824 |
| Na 330.237 | 1842.25 | 1870.54 | 1829.05 |
| Ni 231.604 | 39.5238 | 41.0265 | 40.8704 |
| Pb 220.353 | 205.738 | 204.391 | 200.603 |
| Sb 206.834 | 23.1558 | 18.6864 | 18.7506 |
| Se 196.026 | 39.9268 | 39.6394 | 38.9998 |
| Sn 189.925 | 75.0169 | 80.1895 | 78.3367 |
| Sr 216.596 | 39.5931 | 39.7810 | 39.5221 |
| Ti 334.941 | 40.1382 | 40.0288 | 39.9273 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 17.5213 | 13.6828 | 14.7323 |
| V 292.401 | 39.2066 | 39.3244 | 39.3919 |
| Zn 206.200 | 40.9520 | 43.1374 | 41.1243 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 20.0589 | ppb | 0.1522 | 0.8 | 1704.42 |
| Al 308.215 | 1922.95 | ppb | 5.8466 | 0.3 | 13503.6 |
| As 188.980 | 36.2242 | ppb | 0.7752 | 2.1 | 19.1500 |
| B 249.678 | 80.2876 | ppb | 0.4071 | 0.5 | 1379.06 |
| Ba 389.178 | 40.4348 | ppb | 0.5361 | 1.3 | 793.816 |
| Be 313.042 | 19.8309 | ppb | 0.0405 | 0.2 | 35641.7 |
| Ca 370.602 | 1909 | ppb | 3.718 | 0.2 | 5557 |
| Cd 226.502 | 20.7162 | ppb | 0.0806 | 0.4 | 890.483 |
| Co 228.615 | 19.8403 | ppb | 0.1741 | 0.9 | 239.944 |
| Cr 267.716 | 40.0694 | ppb | 0.1287 | 0.3 | 2241.95 |
| Cu 324.754 | 40.5541 | ppb | 0.3369 | 0.8 | 3250.50 |
| Fe 271.441 | 2016.47 | ppb | 6.3646 | 0.3 | 3195.89 |
| K 766.491 | 2097.47 | ppb | 9.3397 | 0.4 | 94192.1 |
| Mg 279.078 | 1956.74 | ppb | 5.6443 | 0.3 | 5348.66 |
| Mn 257.610 | 202.261 | ppb | 0.4937 | 0.2 | 39836.4 |
| Mo 202.032 | 38.8546 | ppb | 0.2857 | 0.7 | 272.208 |
| Na 330.237 | 1847.28 | ppb | 21.1958 | 1.1 | 107.163 |
| Ni 231.604 | 40.4735 | ppb | 0.8262 | 2.0 | 121.070 |
| Pb 220.353 | 203.577 | ppb | 2.6627 | 1.3 | 330.566 |
| Sb 206.834 | 20.1976 | ppb | 2.5620 | 12.7 | 23.0651 |
| Se 196.026 | 39.5220 | ppb | 0.4745 | 1.2 | 19.4380 |
| Sn 189.925 | 77.8477 | ppb | 2.6207 | 3.4 | 53.2223 |
| Sr 216.596 | 39.6321 | ppb | 0.1337 | 0.3 | 498.482 |
| Ti 334.941 | 40.0314 | ppb | 0.1055 | 0.3 | 11639.4 |
| Tl 190.794 | 15.3121 | ppb | 1.9839 | 13.0 | 9.2609 |
| V 292.401 | 39.3076 | ppb | 0.0938 | 0.2 | 1008.63 |
| Zn 206.200 | 41.7379 | ppb | 1.2150 | 2.9 | 45.8830 |

**Cont Calib Verif (CCV)** **10/17/2014, 8:21:01 PM** **Rack 2, Tube 25**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 492.618 | 488.835 | 493.242 |
| Al 308.215 | 4797.02 | 4800.89 | 4800.26 |
| As 188.980 | 454.073 | 460.975 | 454.462 |
| B 249.678 | 481.746 | 483.565 | 485.305 |
| Ba 389.178 | 4964.09 | 4967.19 | 4969.59 |
| Be 313.042 | 489.572 | 489.843 | 488.223 |
| Ca 370.602 | 4688 | 4680 | 4677 |
| Cd 226.502 | 498.241 | 498.867 | 500.471 |
| Co 228.615 | 487.386 | 488.052 | 488.938 |
| Cr 267.716 | 4878.73 | 4875.47 | 4873.43 |
| Cu 324.754 | 4985.48 | 4924.98 | 4984.20 |
| Fe 271.441 | 4839.36 | 4851.14 | 4855.56 |
| K 766.491 | 10023.3 | 10031.9 | 9981.10 |
| Mg 279.078 | 4803.69 | 4806.68 | 4816.96 |
| Mn 257.610 | 4820.68 | 4793.60 | 4799.06 |
| Mo 202.032 | 484.995 | 485.657 | 484.774 |
| Na 330.237 | 7578.70 | 7496.99 | 7478.47 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 2481.89 | 2484.41 | 2486.85 |
| Pb 220.353 | 493.805 | 496.466 | 500.706 |
| Sb 206.834 | 934.152 | 941.787 | 935.755 |
| Se 196.026 | 4836.72 | 4815.90 | 4801.63 |
| Sn 189.925 | 4872.71 | 4897.36 | 4884.01 |
| Sr 216.596 | 2455.87 | 2457.97 | 2463.63 |
| Ti 334.941 | 488.855 | 488.853 | 487.906 |
| Tl 190.794 | 4899.47 | 4917.91 | 4914.47 |
| V 292.401 | 4768.00 | 4755.40 | 4747.89 |
| Zn 206.200 | 2429.30 | 2415.23 | 2425.49 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 491.565 | ppb | 2.3847 | 0.5 | 41893.6 | 98.31306 |
| Al 308.215 | 4799.39 | ppb | 2.0769 | 0.0 | 33294.7 | 95.98780 |
| As 188.980 | 456.503 | ppb | 3.8776 | 0.8 | 301.887 | 91.30058 |
| B 249.678 | 483.538 | ppb | 1.7793 | 0.4 | 8125.31 | 96.70769 |
| Ba 389.178 | 4966.96 | ppb | 2.7571 | 0.1 | 106863 | 99.33920 |
| Be 313.042 | 489.213 | ppb | 0.8676 | 0.2 | 885205 | 97.84254 |
| Ca 370.602 | 4682 | ppb | 5.948 | 0.1 | 13934 | 93.63467 |
| Cd 226.502 | 499.193 | ppb | 1.1504 | 0.2 | 21076.3 | 99.83856 |
| Co 228.615 | 488.125 | ppb | 0.7786 | 0.2 | 5748.91 | 97.62508 |
| Cr 267.716 | 4875.88 | ppb | 2.6760 | 0.1 | 268452 | 97.51755 |
| Cu 324.754 | 4964.88 | ppb | 34.5675 | 0.7 | 368136 | 99.29768 |
| Fe 271.441 | 4848.69 | ppb | 8.3715 | 0.2 | 7764.85 | 96.97372 |
| K 766.491 | 10012.1 | ppb | 27.1990 | 0.3 | 448700 | 100.12106 |
| Mg 279.078 | 4809.11 | ppb | 6.9574 | 0.1 | 13018.5 | 96.18222 |
| Mn 257.610 | 4804.45 | ppb | 14.3224 | 0.3 | 945029 | 96.08891 |
| Mo 202.032 | 485.142 | ppb | 0.4592 | 0.1 | 3321.53 | 97.02841 |
| Na 330.237 | 7518.05 | ppb | 53.3320 | 0.7 | 304.544 | 100.24068 |
| Ni 231.604 | 2484.38 | ppb | 2.4802 | 0.1 | 7763.49 | 99.37528 |
| Pb 220.353 | 496.992 | ppb | 3.4809 | 0.7 | 797.367 | 99.39845 |
| Sb 206.834 | 937.231 | ppb | 4.0260 | 0.4 | 1382.88 | 93.72313 |
| Se 196.026 | 4818.08 | ppb | 17.6472 | 0.4 | 2269.77 | 96.36163 |
| Sn 189.925 | 4884.69 | ppb | 12.3379 | 0.3 | 3694.45 | 97.69389 |
| Sr 216.596 | 2459.16 | ppb | 4.0158 | 0.2 | 30373.3 | 98.36624 |
| Ti 334.941 | 488.538 | ppb | 0.5475 | 0.1 | 142364 | 97.70757 |
| Tl 190.794 | 4910.62 | ppb | 9.8044 | 0.2 | 5493.85 | 98.21236 |
| V 292.401 | 4757.09 | ppb | 10.1614 | 0.2 | 123958 | 95.14189 |
| Zn 206.200 | 2423.34 | ppb | 7.2777 | 0.3 | 2647.19 | 96.93360 |

**Cont Calib Blank (CCB)** **10/17/2014, 8:25:17 PM** **Rack 2, Tube 26**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2117u | -0.2120u | -0.2692u |
| Al 308.215 | -6.5612u | -6.0464u | -5.7253u |
| As 188.980 | -0.6825u | -2.6336u | -1.9760u |
| B 249.678 | 8.2769 | 7.8239 | 6.7761 |
| Ba 389.178 | 1.6031 | 0.3959 | 0.7304 |
| Be 313.042 | 0.0069 | 0.0181 | 0.0172 |
| Ca 370.602 | 1.283 | 6.785 | -2.642u |
| Cd 226.502 | 0.1691 | 0.1631 | 0.1320 |
| Co 228.615 | -0.1197u | -0.0826u | 0.1589 |
| Cr 267.716 | 0.4540 | 0.4866 | 0.6160 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 0.7383 | 0.7427 | 0.6874 |
| Fe 271.441 | 1.8451 | 5.2811 | -1.5235u |
| K 766.491 | 1.1326 | 1.4408 | 1.1840 |
| Mg 279.078 | -2.4850u | 2.3469 | 0.9000 |
| Mn 257.610 | 0.5040 | 0.6601 | 0.6099 |
| Mo 202.032 | 1.0214 | 1.4693 | 1.0578 |
| Na 330.237 | 263.931 | 33.3720 | 78.5747 |
| Ni 231.604 | -0.3668u | -0.1188u | -0.0513u |
| Pb 220.353 | 0.8634 | 0.0442 | 0.4506 |
| Sb 206.834 | 2.6867 | 1.2341 | 4.8437 |
| Se 196.026 | -0.9609u | -1.6586u | 4.5083 |
| Sn 189.925 | -0.7136u | 1.8304 | 0.7604 |
| Sr 216.596 | -0.2632u | 0.2645 | 0.1367 |
| Ti 334.941 | 0.0563 | 0.0792 | 0.1519 |
| Tl 190.794 | 1.1869 | 0.9013 | 0.0697 |
| V 292.401 | 0.2511 | 0.3004 | 0.3813 |
| Zn 206.200 | 1.8726 | 1.8396 | 2.9908 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | -0.2310 | ppb | 0.0331 | 14.3 | -26.5444 | -0.23098 |
| Al 308.215 | -6.1109 | ppb | 0.4216 | 6.9 | 562.357 | -6.11094 |
| As 188.980 | -1.7640 | ppb | 0.9927 | 56.3 | -6.4130 | -1.76402 |
| B 249.678 | 7.6257 | ppb | 0.7698 | 10.1 | 169.152 | 7.62566 |
| Ba 389.178 | 0.9098 | ppb | 0.6233 | 68.5 | -61.0097 | 0.90980 |
| Be 313.042 | 0.0141 | ppb | 0.0062 | 44.4 | -214.599 | 0.01407 |
| Ca 370.602 | 1.808 | ppb | 4.735 | 261.9 | 25.64 | 1.80836 |
| Cd 226.502 | 0.1547 | ppb | 0.0199 | 12.9 | 16.0422 | 0.15473 |
| Co 228.615 | -0.0145 | ppb | 0.1513 | 1045.4 | 6.6221 | -0.01447 |
| Cr 267.716 | 0.5189 | ppb | 0.0857 | 16.5 | 62.9476 | 0.51888 |
| Cu 324.754 | 0.7228 | ppb | 0.0307 | 4.3 | 296.777 | 0.72280 |
| Fe 271.441 | 1.8675 | ppb | 3.4023 | 182.2 | 19.0152 | 1.86754 |
| K 766.491 | 1.2524 | ppb | 0.1651 | 13.2 | 299.229 | 1.25245 |
| Mg 279.078 | 0.2539 | ppb | 2.4799 | 976.6 | 24.1732 | 0.25394 |
| Mn 257.610 | 0.5913 | ppb | 0.0797 | 13.5 | 152.565 | 0.59134 |
| Mo 202.032 | 1.1828 | ppb | 0.2487 | 21.0 | 14.4897 | 1.18283 |
| Na 330.237 | 125.292 | ppb | 122.173 | 97.5 | 31.3739 | 125.29238 |
| Ni 231.604 | -0.1790 | ppb | 0.1661 | 92.8 | -6.1952 | -0.17899 |
| Pb 220.353 | 0.4527 | ppb | 0.4096 | 90.5 | 10.1996 | 0.45273 |
| Sb 206.834 | 2.9215 | ppb | 1.8162 | 62.2 | -1.4953 | 2.92151 |
| Se 196.026 | 0.6296 | ppb | 3.3771 | 536.4 | 1.0644 | 0.62958 |
| Sn 189.925 | 0.6257 | ppb | 1.2773 | 204.1 | -5.2747 | 0.62574 |
| Sr 216.596 | 0.0460 | ppb | 0.2753 | 598.5 | 6.9345 | 0.04600 |
| Ti 334.941 | 0.0958 | ppb | 0.0499 | 52.1 | -3.7551 | 0.09580 |
| Tl 190.794 | 0.7193 | ppb | 0.5804 | 80.7 | -6.8854 | 0.71931 |
| V 292.401 | 0.3109 | ppb | 0.0657 | 21.1 | -3.4095 | 0.31093 |
| Zn 206.200 | 2.2343 | ppb | 0.6553 | 29.3 | 2.6954 | 2.23430 |

**560-50465-e-1-a (Samp)** **10/17/2014, 8:29:33 PM** **Rack 2, Tube 27**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2220u | -0.0945u | -0.1914u |
| Al 308.215 | 10.1010 | 11.2872 | 9.8059 |
| As 188.980 | 33.1757 | 27.6748 | 33.7422 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 2222.86 | 2241.59 | 2245.12 |
| Ba 389.178 | 32.1763 | 31.7454 | 32.5101 |
| Be 313.042 | 0.0217u | 0.0087u | 0.0106u |
| Ca 370.602 | 12019 | 12032 | 11956 |
| Cd 226.502 | -0.2146u | -0.2797u | -0.2933u |
| Co 228.615 | -0.5732u | -0.4722u | -0.3788u |
| Cr 267.716 | -0.1345 | 0.0154 | -0.1134 |
| Cu 324.754 | 0.6257 | 0.7886 | 0.8178 |
| Fe 271.441 | 12.3266 | 16.3934 | 14.9590 |
| K 766.491 | 29446.5 | 29464.2 | 29479.6 |
| Mg 279.078 | 120.448 | 117.978 | 121.601 |
| Mn 257.610 | 8.6962 | 8.7117 | 8.7032 |
| Mo 202.032 | 14.8015 | 15.1450 | 15.4477 |
| Na 330.237 | 597679x | 603243x | 599652x |
| Ni 231.604 | 0.6872 | 0.4913 | 0.0597 |
| Pb 220.353 | 3.3364 | 2.9454 | -0.6426u |
| Sb 206.834 | 4.4057 | 5.0074 | 2.9062 |
| Se 196.026 | -0.4139u | -3.3079u | 0.8394 |
| Sn 189.925 | -1.8160u | -0.5283u | -0.2635u |
| Sr 216.596 | 98.6413 | 99.1571 | 98.5118 |
| Ti 334.941 | 0.1390u | 0.1282u | 0.1233u |
| Tl 190.794 | -1.9584u | 1.1117 | -4.5729u |
| V 292.401 | 5.0163 | 4.4437 | 4.7083 |
| Zn 206.200 | 12.2076 | 11.0301 | 13.4284 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1693b | ppb | 0.0666 | 39.3 | -24.7112 |
| Al 308.215 | 10.3980b | ppb | 0.7841 | 7.5 | 674.304 |
| As 188.980 | 31.5309b | ppb | 3.3515 | 10.6 | 15.9911 |
| B 249.678 | 2236.52b | ppb | 11.9618 | 0.5 | 37418.2 |
| Ba 389.178 | 32.1439b | ppb | 0.3834 | 1.2 | 611.599 |
| Be 313.042 | 0.0137b | ppb | 0.0070 | 51.3 | -279.081 |
| Ca 370.602 | 12002b | ppb | 40.48 | 0.3 | 34832 |
| Cd 226.502 | -0.2625b | ppb | 0.0421 | 16.0 | -5.1796 |
| Co 228.615 | -0.4747b | ppb | 0.0972 | 20.5 | 0.8294 |
| Cr 267.716 | -0.0775b | ppb | 0.0811 | 104.7 | 42.0152 |
| Cu 324.754 | 0.7440b | ppb | 0.1035 | 13.9 | 298.876 |
| Fe 271.441 | 14.5596b | ppb | 2.0626 | 14.2 | 39.0059 |
| K 766.491 | 29463.4b | ppb | 16.5912 | 0.1 | 1319955 |
| Mg 279.078 | 120.009b | ppb | 1.8514 | 1.5 | 350.210 |
| Mn 257.610 | 8.7037b | ppb | 0.0077 | 0.1 | 1746.42 |
| Mo 202.032 | 15.1314b | ppb | 0.3233 | 2.1 | 109.960 |
| Na 330.237 | 600192xb | ppb | 2821.01 | 0.5 | 26951.8 |
| Ni 231.604 | 0.4127b | ppb | 0.3211 | 77.8 | -4.3423 |
| Pb 220.353 | 1.8797b | ppb | 2.1932 | 116.7 | 12.4322 |
| Sb 206.834 | 4.1065b | ppb | 1.0821 | 26.4 | -0.0623 |
| Se 196.026 | -0.9608b | ppb | 2.1271 | 221.4 | 0.3179 |
| Sn 189.925 | -0.8693b | ppb | 0.8305 | 95.5 | -6.2186 |
| Sr 216.596 | 98.7701b | ppb | 0.3414 | 0.3 | 1233.44 |
| Ti 334.941 | 0.1302b | ppb | 0.0080 | 6.2 | -40.7680 |
| Tl 190.794 | -1.8065b | ppb | 2.8453 | 157.5 | -9.7520 |
| V 292.401 | 4.7227b | ppb | 0.2866 | 6.1 | 105.169 |
| Zn 206.200 | 12.2220b | ppb | 1.1992 | 9.8 | 13.6710 |

**560-50465-e-1-aSD (Samp)** **10/17/2014, 8:33:49 PM** **Rack 2, Tube 28**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2295u | 0.0361 | -0.1731u |
| Al 308.215 | 0.1924 | 1.0324 | 1.4405 |
| As 188.980 | 2.6125 | 2.6545 | 2.1940 |
| B 249.678 | 465.802 | 461.942 | 462.312 |
| Ba 389.178 | 7.2975 | 6.1175 | 6.6423 |
| Be 313.042 | -0.0197u | -0.0154u | -0.0137u |
| Ca 370.602 | 2379 | 2390 | 2387 |
| Cd 226.502 | 0.0844 | -0.0388u | 0.0724 |
| Co 228.615 | -0.2108u | -0.6788u | -0.1362u |
| Cr 267.716 | 0.0913 | 0.0609 | 0.1128 |
| Cu 324.754 | 0.3066 | 0.2909 | 0.2930 |
| Fe 271.441 | -2.6710u | 3.0400 | 5.2775 |
| K 766.491 | 4697.56 | 4692.35 | 4702.88 |
| Mg 279.078 | 22.6390 | 27.9867 | 22.5749 |
| Mn 257.610 | 1.8419 | 1.8876 | 1.9280 |
| Mo 202.032 | 2.8682 | 2.9421 | 2.8140 |
| Na 330.237 | 101752x | 101510x | 101833x |
| Ni 231.604 | 0.7777 | -0.3365u | -0.1098u |
| Pb 220.353 | -1.4926u | 2.8704 | -0.0042u |
| Sb 206.834 | 3.0190 | 1.6863 | 2.9343 |
| Se 196.026 | -2.8650u | 0.9795 | 4.5257 |
| Sn 189.925 | -0.6712u | -0.8683u | -0.9802u |
| Sr 216.596 | 19.5014 | 19.9013 | 19.6338 |
| Ti 334.941 | 0.0215u | 0.0156u | 0.0702 |
| Tl 190.794 | -1.1702u | -0.4680u | -1.8242u |
| V 292.401 | 0.9015 | 0.8501 | 1.0413 |
| Zn 206.200 | 2.6861 | 4.6036 | 5.2198 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1222b | ppb | 0.1399 | 114.5 | -17.9341 |
| Al 308.215 | 0.8884b | ppb | 0.6364 | 71.6 | 609.423 |
| As 188.980 | 2.4870b | ppb | 0.2546 | 10.2 | -3.5524 |
| B 249.678 | 463.352b | ppb | 2.1297 | 0.5 | 7785.16 |
| Ba 389.178 | 6.6858b | ppb | 0.5912 | 8.8 | 63.3704 |
| Be 313.042 | -0.0163b | ppb | 0.0031 | 19.0 | -280.133 |
| Ca 370.602 | 2385b | ppb | 5.521 | 0.2 | 6939 |
| Cd 226.502 | 0.0393b | ppb | 0.0679 | 172.7 | 10.5581 |
| Co 228.615 | -0.3419b | ppb | 0.2941 | 86.0 | 2.7247 |
| Cr 267.716 | 0.0884b | ppb | 0.0261 | 29.5 | 41.2753 |
| Cu 324.754 | 0.2969b | ppb | 0.0085 | 2.9 | 265.279 |
| Fe 271.441 | 1.8822b | ppb | 4.0987 | 217.8 | 18.9840 |
| K 766.491 | 4697.60b | ppb | 5.2679 | 0.1 | 210656 |
| Mg 279.078 | 24.4002b | ppb | 3.1062 | 12.7 | 89.9185 |
| Mn 257.610 | 1.8858b | ppb | 0.0430 | 2.3 | 406.908 |
| Mo 202.032 | 2.8748b | ppb | 0.0643 | 2.2 | 26.0704 |
| Na 330.237 | 101698xb | ppb | 168.144 | 0.2 | 4588.18 |
| Ni 231.604 | 0.1105b | ppb | 0.5889 | 533.1 | -5.2886 |
| Pb 220.353 | 0.4579b | ppb | 2.2179 | 484.4 | 10.2055 |
| Sb 206.834 | 2.5465b | ppb | 0.7462 | 29.3 | -2.0679 |
| Se 196.026 | 0.8801b | ppb | 3.6964 | 420.0 | 1.1826 |
| Sn 189.925 | -0.8399b | ppb | 0.1565 | 18.6 | -6.3528 |
| Sr 216.596 | 19.6788b | ppb | 0.2037 | 1.0 | 250.835 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 0.0358b | ppb | 0.0300 | 83.8 | -29.2491 |
| Tl 190.794 | -1.1541b | ppb | 0.6783 | 58.8 | -8.9873 |
| V 292.401 | 0.9310b | ppb | 0.0990 | 10.6 | 11.7731 |
| Zn 206.200 | 4.1698b | ppb | 1.3214 | 31.7 | 4.8235 |

**560-50465-e-1-aPDS (Samp)** **10/17/2014, 8:38:05 PM** **Rack 2, Tube 29**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 102.860 | 102.365 | 103.028 |
| Al 308.215 | 1029.15 | 1025.01 | 1033.87 |
| As 188.980 | 134.473 | 133.138 | 135.785 |
| B 249.678 | 2426.08 | 2428.32 | 2451.60 |
| Ba 389.178 | 113.412 | 113.038 | 114.155 |
| Be 313.042 | 98.6211 | 97.9210 | 98.3554 |
| Ca 370.602 | 21944 | 21766 | 21768 |
| Cd 226.502 | 98.3431 | 98.2458 | 98.8714 |
| Co 228.615 | 97.2885 | 97.3006 | 97.3491 |
| Cr 267.716 | 99.5849 | 98.8234 | 99.4296 |
| Cu 324.754 | 103.503 | 102.812 | 103.800 |
| Fe 271.441 | 9764.62 | 9691.01 | 9712.79 |
| K 766.491 | 42925.6x | 42839.7x | 43066.3x |
| Mg 279.078 | 9569.51 | 9518.82 | 9560.39 |
| Mn 257.610 | 1016.09 | 1010.34 | 1010.80 |
| Mo 202.032 | 111.374 | 110.328 | 111.231 |
| Na 330.237 | 604365x | 600759x | 606649x |
| Ni 231.604 | 97.3476 | 97.0569 | 96.6544 |
| Pb 220.353 | 99.4640 | 97.6659 | 96.2876 |
| Sb 206.834 | 99.0922 | 101.176 | 101.882 |
| Se 196.026 | 108.477 | 106.700 | 99.5189 |
| Sn 189.925 | 98.3450 | 101.603 | 97.6014 |
| Sr 216.596 | 196.056 | 194.628 | 195.354 |
| Ti 334.941 | 99.3008 | 98.7369 | 99.2618 |
| Tl 190.794 | 18.5590 | 18.2435 | 15.5603 |
| V 292.401 | 103.132 | 102.540 | 102.573 |
| Zn 206.200 | 112.181 | 114.069 | 108.997 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 102.751b | ppb | 0.3444 | 0.3 | 8758.91 |
| Al 308.215 | 1029.34b | ppb | 4.4347 | 0.4 | 7536.16 |
| As 188.980 | 134.465b | ppb | 1.3238 | 1.0 | 85.1865 |
| B 249.678 | 2435.34b | ppb | 14.1285 | 0.6 | 40719.6 |
| Ba 389.178 | 113.535b | ppb | 0.5686 | 0.5 | 2382.20 |
| Be 313.042 | 98.2992b | ppb | 0.3534 | 0.4 | 177566 |
| Ca 370.602 | 21826b | ppb | 102.4 | 0.5 | 63277 |
| Cd 226.502 | 98.4868b | ppb | 0.3366 | 0.3 | 4194.64 |
| Co 228.615 | 97.3127b | ppb | 0.0321 | 0.0 | 1150.37 |
| Cr 267.716 | 99.2793b | ppb | 0.4024 | 0.4 | 5520.21 |
| Cu 324.754 | 103.372b | ppb | 0.5068 | 0.5 | 7911.26 |
| Fe 271.441 | 9722.81b | ppb | 37.8127 | 0.4 | 15347.4 |
| K 766.491 | 42943.9xb | ppb | 114.419 | 0.3 | 1923763 |
| Mg 279.078 | 9549.57b | ppb | 27.0227 | 0.3 | 26015.2 |
| Mn 257.610 | 1012.41b | ppb | 3.1942 | 0.3 | 199249 |
| Mo 202.032 | 110.978b | ppb | 0.5671 | 0.5 | 765.445 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 603925xb | ppb | 2969.28 | 0.5 | 27114.6 |
| Ni 231.604 | 97.0196b | ppb | 0.3481 | 0.4 | 298.391 |
| Pb 220.353 | 97.8058b | ppb | 1.5928 | 1.6 | 164.389 |
| Sb 206.834 | 100.717b | ppb | 1.4504 | 1.4 | 137.782 |
| Se 196.026 | 104.899b | ppb | 4.7430 | 4.5 | 50.4739 |
| Sn 189.925 | 99.1832b | ppb | 2.1285 | 2.1 | 69.5742 |
| Sr 216.596 | 195.346b | ppb | 0.7141 | 0.4 | 2440.43 |
| Ti 334.941 | 99.0999b | ppb | 0.3149 | 0.3 | 28821.8 |
| Tl 190.794 | 17.4542b | ppb | 1.6478 | 9.4 | 11.1171 |
| V 292.401 | 102.748b | ppb | 0.3328 | 0.3 | 2650.83 |
| Zn 206.200 | 111.749b | ppb | 2.5635 | 2.3 | 122.266 |

**560-50465-e-1-b ms (Samp)** **10/17/2014, 8:42:21 PM** **Rack 2, Tube 30**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 21.7862 | 21.7303 | 21.6017 |
| Al 308.215 | 2154.62 | 2159.10 | 2157.95 |
| As 188.980 | 75.2599 | 78.1695 | 77.8348 |
| B 249.678 | 2349.52 | 2357.41 | 2361.45 |
| Ba 389.178 | 74.4768 | 73.0956 | 74.5820 |
| Be 313.042 | 21.0051 | 21.0588 | 21.1085 |
| Ca 370.602 | 13928 | 13954 | 13963 |
| Cd 226.502 | 21.1049 | 21.2664 | 21.0776 |
| Co 228.615 | 19.6197 | 20.6381 | 20.3220 |
| Cr 267.716 | 41.5341 | 41.3861 | 41.3900 |
| Cu 324.754 | 43.9731 | 44.0525 | 44.1823 |
| Fe 271.441 | 2067.57 | 2063.18 | 2061.33 |
| K 766.491 | 32339.8 | 32454.2 | 32456.7 |
| Mg 279.078 | 2106.53 | 2103.07 | 2104.67 |
| Mn 257.610 | 218.714 | 218.754 | 219.082 |
| Mo 202.032 | 55.7156 | 55.4201 | 55.6930 |
| Na 330.237 | 593870x | 600218x | 597651x |
| Ni 231.604 | 42.1019 | 41.8984 | 40.4325 |
| Pb 220.353 | 206.527 | 205.010 | 206.274 |
| Sb 206.834 | 21.7587 | 25.4377 | 23.6231 |
| Se 196.026 | 45.0755 | 40.5705 | 46.6471 |
| Sn 189.925 | 76.7216 | 83.0048 | 86.1166 |
| Sr 216.596 | 138.943 | 139.313 | 139.691 |
| Ti 334.941 | 41.4093 | 41.4511 | 41.6005 |
| Tl 190.794 | 14.6966 | 17.7744 | 11.5973 |
| V 292.401 | 45.7683 | 45.7557 | 45.9829 |
| Zn 206.200 | 52.1989 | 54.0848 | 55.9986 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 21.7061b | ppb | 0.0946 | 0.4 | 1841.57 |
| Al 308.215 | 2157.22b | ppb | 2.3280 | 0.1 | 15075.7 |
| As 188.980 | 77.0881b | ppb | 1.5920 | 2.1 | 46.6495 |
| B 249.678 | 2356.13b | ppb | 6.0645 | 0.3 | 39412.5 |
| Ba 389.178 | 74.0515b | ppb | 0.8295 | 1.1 | 1517.78 |
| Be 313.042 | 21.0575b | ppb | 0.0517 | 0.2 | 37797.7 |
| Ca 370.602 | 13948b | ppb | 17.80 | 0.1 | 40476 |
| Cd 226.502 | 21.1496b | ppb | 0.1020 | 0.5 | 905.284 |
| Co 228.615 | 20.1933b | ppb | 0.5212 | 2.6 | 243.669 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 41.4367b | ppb | 0.0843 | 0.2 | 2329.06 |
| Cu 324.754 | 44.0693b | ppb | 0.1056 | 0.2 | 3511.62 |
| Fe 271.441 | 2064.03b | ppb | 3.2042 | 0.2 | 3270.92 |
| K 766.491 | 32416.9b | ppb | 66.7552 | 0.2 | 1452246 |
| Mg 279.078 | 2104.76b | ppb | 1.7312 | 0.1 | 5751.47 |
| Mn 257.610 | 218.850b | ppb | 0.2017 | 0.1 | 43097.8 |
| Mo 202.032 | 55.6096b | ppb | 0.1645 | 0.3 | 386.884 |
| Na 330.237 | 597246xb | ppb | 3193.30 | 0.5 | 26818.1 |
| Ni 231.604 | 41.4776b | ppb | 0.9108 | 2.2 | 124.214 |
| Pb 220.353 | 205.937b | ppb | 0.8127 | 0.4 | 334.267 |
| Sb 206.834 | 23.6065b | ppb | 1.8395 | 7.8 | 27.6524 |
| Se 196.026 | 44.0977b | ppb | 3.1541 | 7.2 | 21.5956 |
| Sn 189.925 | 81.9477b | ppb | 4.7859 | 5.8 | 56.5150 |
| Sr 216.596 | 139.316b | ppb | 0.3741 | 0.3 | 1736.83 |
| Ti 334.941 | 41.4870b | ppb | 0.1005 | 0.2 | 12017.0 |
| Tl 190.794 | 14.6894b | ppb | 3.0886 | 21.0 | 8.5173 |
| V 292.401 | 45.8356b | ppb | 0.1277 | 0.3 | 1172.05 |
| Zn 206.200 | 54.0941b | ppb | 1.8999 | 3.5 | 59.4540 |

**560-50465-e-1-c msd (Samp)** **10/17/2014, 8:46:36 PM** **Rack 2, Tube 31**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 21.0154 | 20.8414 | 20.9062 |
| Al 308.215 | 2082.32 | 2088.99 | 2083.63 |
| As 188.980 | 73.4086 | 75.5891 | 73.0368 |
| B 249.678 | 2271.25 | 2281.36 | 2286.98 |
| Ba 389.178 | 71.4754 | 71.4722 | 72.3097 |
| Be 313.042 | 20.2720 | 20.3379 | 20.3238 |
| Ca 370.602 | 13313 | 13358 | 13323 |
| Cd 226.502 | 20.4827 | 20.5511 | 20.4757 |
| Co 228.615 | 19.5149 | 19.2214 | 19.0112 |
| Cr 267.716 | 39.9237 | 39.8325 | 39.8035 |
| Cu 324.754 | 42.4271 | 42.6714 | 42.6686 |
| Fe 271.441 | 1985.68 | 1985.85 | 1989.80 |
| K 766.491 | 31340.5 | 31378.4 | 31405.4 |
| Mg 279.078 | 2019.32 | 2027.09 | 2025.05 |
| Mn 257.610 | 209.218 | 209.741 | 209.223 |
| Mo 202.032 | 52.5574 | 54.0277 | 53.8360 |
| Na 330.237 | 581579x | 583560x | 585308x |
| Ni 231.604 | 38.6372 | 39.1647 | 39.7480 |
| Pb 220.353 | 197.138 | 202.280 | 200.708 |
| Sb 206.834 | 23.4640 | 22.6795 | 19.1117 |
| Se 196.026 | 43.9439 | 49.2918 | 46.2199 |
| Sn 189.925 | 76.8590 | 75.1842 | 83.0220 |
| Sr 216.596 | 134.627 | 134.003 | 134.853 |
| Ti 334.941 | 39.9876 | 40.2102 | 40.2510 |
| Tl 190.794 | 14.5096 | 17.5835 | 12.5561 |
| V 292.401 | 44.0774 | 43.9797 | 43.9849 |
| Zn 206.200 | 54.5081 | 51.7611 | 53.9601 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 20.9210b | ppb | 0.0879 | 0.4 | 1774.66 |
| Al 308.215 | 2084.98b | ppb | 3.5363 | 0.2 | 14591.1 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 74.0115b | ppb | 1.3788 | 1.9 | 44.5792 |
| B 249.678 | 2279.86b | ppb | 7.9679 | 0.3 | 38138.1 |
| Ba 389.178 | 71.7525b | ppb | 0.4826 | 0.7 | 1468.13 |
| Be 313.042 | 20.3112b | ppb | 0.0347 | 0.2 | 36449.1 |
| Ca 370.602 | 13331b | ppb | 23.48 | 0.2 | 38686 |
| Cd 226.502 | 20.5032b | ppb | 0.0417 | 0.2 | 877.830 |
| Co 228.615 | 19.2492b | ppb | 0.2530 | 1.3 | 232.594 |
| Cr 267.716 | 39.8532b | ppb | 0.0627 | 0.2 | 2241.52 |
| Cu 324.754 | 42.5890b | ppb | 0.1402 | 0.3 | 3401.83 |
| Fe 271.441 | 1987.11b | ppb | 2.3301 | 0.1 | 3149.62 |
| K 766.491 | 31374.7b | ppb | 32.6079 | 0.1 | 1405565 |
| Mg 279.078 | 2023.82b | ppb | 4.0283 | 0.2 | 5531.19 |
| Mn 257.610 | 209.394b | ppb | 0.3004 | 0.1 | 41237.3 |
| Mo 202.032 | 53.4737b | ppb | 0.7993 | 1.5 | 372.270 |
| Na 330.237 | 583483xb | ppb | 1865.91 | 0.3 | 26200.7 |
| Ni 231.604 | 39.1833b | ppb | 0.5556 | 1.4 | 117.034 |
| Pb 220.353 | 200.042b | ppb | 2.6346 | 1.3 | 324.969 |
| Sb 206.834 | 21.7517b | ppb | 2.3198 | 10.7 | 25.0186 |
| Se 196.026 | 46.4852b | ppb | 2.6838 | 5.8 | 22.7167 |
| Sn 189.925 | 78.3551b | ppb | 4.1275 | 5.3 | 53.7888 |
| Sr 216.596 | 134.494b | ppb | 0.4399 | 0.3 | 1676.95 |
| Ti 334.941 | 40.1496b | ppb | 0.1418 | 0.4 | 11628.3 |
| Tl 190.794 | 14.8830b | ppb | 2.5344 | 17.0 | 8.7421 |
| V 292.401 | 44.0140b | ppb | 0.0550 | 0.1 | 1124.91 |
| Zn 206.200 | 53.4098b | ppb | 1.4539 | 2.7 | 58.7100 |

**560-50465-e-2-a (Samp)** **10/17/2014, 8:50:52 PM** **Rack 2, Tube 32**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1154u | -0.0407u | -0.1385u |
| Al 308.215 | 371.024 | 368.680 | 368.990 |
| As 188.980 | -7.2351u | -3.6279u | -3.3487u |
| B 249.678 | 2942.63 | 2941.72 | 2949.67 |
| Ba 389.178 | 75.8814 | 76.0189 | 75.5271 |
| Be 313.042 | 0.0475u | 0.0489u | 0.0492u |
| Ca 370.602 | 2100 | 2086 | 2110 |
| Cd 226.502 | 0.0466u | 0.2940 | 0.1129 |
| Co 228.615 | -0.6004u | 0.1002 | -0.0776u |
| Cr 267.716 | -0.0579 | 0.1458 | 0.1841 |
| Cu 324.754 | 6.2566 | 6.3363 | 6.2728 |
| Fe 271.441 | 884.115 | 882.697 | 887.844 |
| K 766.491 | 5861.68 | 5868.71 | 5835.63 |
| Mg 279.078 | 706.326 | 701.305 | 702.427 |
| Mn 257.610 | 5.3884 | 5.3982 | 5.4966 |
| Mo 202.032 | 4.9210 | 5.3517 | 4.9732 |
| Na 330.237 | 1256206x | 1253782x | 1259953x |
| Ni 231.604 | 0.3243 | 0.3558 | 0.9912 |
| Pb 220.353 | 3.1624 | 1.9341 | 3.0051 |
| Sb 206.834 | 0.6384 | 1.9908 | 2.3778 |
| Se 196.026 | 17.6650 | 4.4749 | 8.8739 |
| Sn 189.925 | -5.3639u | -2.5325u | -2.3774u |
| Sr 216.596 | 251.990 | 249.877 | 251.434 |
| Ti 334.941 | 1.5024 | 1.5149 | 1.4892 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -4.5075u | -1.7236u | -2.9461u |
| V 292.401 | 0.5326 | 0.7564 | 0.8248 |
| Zn 206.200 | 61.8260 | 62.4149 | 60.7732 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0982b | ppb | 0.0511 | 52.1 | -24.2160 |
| Al 308.215 | 369.565b | ppb | 1.2732 | 0.3 | 3082.49 |
| As 188.980 | -4.7373b | ppb | 2.1677 | 45.8 | -8.4170 |
| B 249.678 | 2944.67b | ppb | 4.3540 | 0.1 | 49250.6 |
| Ba 389.178 | 75.8091b | ppb | 0.2537 | 0.3 | 1552.76 |
| Be 313.042 | 0.0485b | ppb | 0.0009 | 1.9 | -286.809 |
| Ca 370.602 | 2099b | ppb | 11.70 | 0.6 | 6097 |
| Cd 226.502 | 0.1512b | ppb | 0.1280 | 84.7 | 11.5326 |
| Co 228.615 | -0.1926b | ppb | 0.3642 | 189.1 | 4.5073 |
| Cr 267.716 | 0.0907b | ppb | 0.1301 | 143.5 | 64.5304 |
| Cu 324.754 | 6.2886b | ppb | 0.0421 | 0.7 | 709.807 |
| Fe 271.441 | 884.886b | ppb | 2.6582 | 0.3 | 1410.18 |
| K 766.491 | 5855.34b | ppb | 17.4274 | 0.3 | 262513 |
| Mg 279.078 | 703.353b | ppb | 2.6353 | 0.4 | 1939.19 |
| Mn 257.610 | 5.4277b | ppb | 0.0598 | 1.1 | 1105.55 |
| Mo 202.032 | 5.0820b | ppb | 0.2351 | 4.6 | 41.1371 |
| Na 330.237 | 1256647xb | ppb | 3109.07 | 0.2 | 56400.9 |
| Ni 231.604 | 0.5571b | ppb | 0.3763 | 67.5 | -3.8159 |
| Pb 220.353 | 2.7005b | ppb | 0.6684 | 24.8 | 13.7923 |
| Sb 206.834 | 1.6690b | ppb | 0.9132 | 54.7 | -3.3292 |
| Se 196.026 | 10.3379b | ppb | 6.7158 | 65.0 | 5.6433 |
| Sn 189.925 | -3.4246b | ppb | 1.6813 | 49.1 | -7.9514 |
| Sr 216.596 | 251.100b | ppb | 1.0951 | 0.4 | 3115.90 |
| Ti 334.941 | 1.5022b | ppb | 0.0128 | 0.9 | 309.449 |
| Tl 190.794 | -3.0591b | ppb | 1.3954 | 45.6 | -11.2452 |
| V 292.401 | 0.7046b | ppb | 0.1528 | 21.7 | -2.5504 |
| Zn 206.200 | 61.6714b | ppb | 0.8317 | 1.3 | 67.9657 |

**480-69017-a-1-a (Samp)** **10/17/2014, 8:55:09 PM** **Rack 2, Tube 33**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.2110u | 0.1964u | -0.1386u |
| Al 308.215 | 19.0536 | 20.2710 | 20.3535 |
| As 188.980 | -0.0824u | 0.4251 | -1.0385u |
| B 249.678 | 80.5508 | 75.6908 | 70.6372 |
| Ba 389.178 | 84.2503 | 84.9170 | 84.0984 |
| Be 313.042 | -0.0200u | -0.0133u | -0.0191u |
| Ca 370.602 | 51179 | 51278 | 51177 |
| Cd 226.502 | 0.1457 | 0.1966 | 0.0753 |
| Co 228.615 | 0.4653 | 0.3953 | 0.5382 |
| Cr 267.716 | 0.0713 | 0.2367 | 0.2793 |
| Cu 324.754 | 10.8253 | 10.9965 | 10.8704 |
| Fe 271.441 | 117.218 | 121.418 | 111.011 |
| K 766.491 | 22337.0 | 22279.0 | 22261.8 |
| Mg 279.078 | 7742.57 | 7755.95 | 7763.30 |
| Mn 257.610 | 27.9886 | 28.0366 | 28.0161 |
| Mo 202.032 | -0.2769u | 0.3550 | -0.0640u |
| Na 330.237 | 285144x | 285838x | 286636x |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 1.0071 | 1.3630 | 2.3815 |
| Pb 220.353 | -0.3998u | -0.6636u | 1.5068 |
| Sb 206.834 | 2.9966 | 3.0709 | 5.4287 |
| Se 196.026 | 0.9203 | -2.3041u | 1.1262 |
| Sn 189.925 | -2.7295u | 0.1987 | 1.2057 |
| Sr 216.596 | 739.792 | 740.393 | 742.510 |
| Ti 334.941 | 0.2039 | 0.0929 | 0.0727 |
| Tl 190.794 | 0.8591 | 0.8172 | 0.2719 |
| V 292.401 | -0.1950u | -0.3117u | -0.1714u |
| Zn 206.200 | 11.2206 | 10.5787 | 12.6544 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0896b | ppb | 0.1978 | 220.7 | -25.7471 |
| Al 308.215 | 19.8927b | ppb | 0.7278 | 3.7 | 736.773 |
| As 188.980 | -0.2319b | ppb | 0.7432 | 320.4 | -5.3820 |
| B 249.678 | 75.6262b | ppb | 4.9571 | 6.6 | 1305.37 |
| Ba 389.178 | 84.4219b | ppb | 0.4355 | 0.5 | 1747.35 |
| Be 313.042 | -0.0174b | ppb | 0.0036 | 20.9 | -284.810 |
| Ca 370.602 | 51211b | ppb | 58.11 | 0.1 | 148553 |
| Cd 226.502 | 0.1392b | ppb | 0.0609 | 43.7 | 14.1846 |
| Co 228.615 | 0.4662b | ppb | 0.0714 | 15.3 | 12.3291 |
| Cr 267.716 | 0.1957b | ppb | 0.1099 | 56.1 | 50.9713 |
| Cu 324.754 | 10.8974b | ppb | 0.0888 | 0.8 | 1050.81 |
| Fe 271.441 | 116.549b | ppb | 5.2358 | 4.5 | 199.740 |
| K 766.491 | 22292.6b | ppb | 39.4107 | 0.2 | 998763 |
| Mg 279.078 | 7753.94b | ppb | 10.5083 | 0.1 | 21144.9 |
| Mn 257.610 | 28.0138b | ppb | 0.0241 | 0.1 | 5600.25 |
| Mo 202.032 | 0.0047b | ppb | 0.3215 | 6866.3 | 6.4203 |
| Na 330.237 | 285873xb | ppb | 746.575 | 0.3 | 12850.6 |
| Ni 231.604 | 1.5839b | ppb | 0.7133 | 45.0 | -0.6729 |
| Pb 220.353 | 0.1478b | ppb | 1.1843 | 801.3 | 9.7333 |
| Sb 206.834 | 3.8321b | ppb | 1.3832 | 36.1 | -0.1732 |
| Se 196.026 | -0.0859b | ppb | 1.9238 | 2239.8 | 0.7354 |
| Sn 189.925 | -0.4417b | ppb | 2.0443 | 462.8 | -5.9943 |
| Sr 216.596 | 740.898b | ppb | 1.4282 | 0.2 | 9197.00 |
| Ti 334.941 | 0.1232b | ppb | 0.0707 | 57.4 | -4.2008 |
| Tl 190.794 | 0.6494b | ppb | 0.3276 | 50.4 | -6.9593 |
| V 292.401 | -0.2260b | ppb | 0.0752 | 33.3 | -19.1701 |
| Zn 206.200 | 11.4846b | ppb | 1.0627 | 9.3 | 12.8553 |

**480-69017-a-2-a (Samp)** **10/17/2014, 8:59:26 PM** **Rack 2, Tube 34**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.2835u | 0.1796u | 0.0058u |
| Al 308.215 | 17.8382 | 18.4986 | 19.5261 |
| As 188.980 | -2.9123u | -5.8744u | -0.5024u |
| B 249.678 | 43.9921 | 44.0815 | 42.9819 |
| Ba 389.178 | 83.3592 | 82.9084 | 83.3112 |
| Be 313.042 | -0.0136u | -0.0225u | -0.0180u |
| Ca 370.602 | 49997 | 49988 | 50143 |
| Cd 226.502 | 0.2962 | 0.1969 | 0.3067 |
| Co 228.615 | -0.0638u | 0.3294 | 0.3339 |
| Cr 267.716 | 0.1707 | 0.1224 | 0.0676 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 28.9491 | 28.8068 | 28.7460 |
| Fe 271.441 | 51.1609 | 51.9877 | 49.4954 |
| K 766.491 | 21112.5 | 21093.4 | 20970.9 |
| Mg 279.078 | 7545.69 | 7526.15 | 7529.82 |
| Mn 257.610 | 23.2400 | 23.2514 | 23.3431 |
| Mo 202.032 | -0.4082u | 0.1982 | -0.4791u |
| Na 330.237 | 286523x | 286512x | 286736x |
| Ni 231.604 | 2.0344 | 1.6443 | 1.8239 |
| Pb 220.353 | 2.1033 | 0.8102 | 0.7391 |
| Sb 206.834 | 2.7747 | 1.3839 | 0.1282 |
| Se 196.026 | 0.5460 | 1.1258 | 1.2841 |
| Sn 189.925 | 1.7276 | 3.0440 | -1.8369u |
| Sr 216.596 | 744.430 | 740.742 | 743.358 |
| Ti 334.941 | 0.0653 | 0.0405 | 0.0630 |
| Tl 190.794 | 1.7022 | -1.6307u | -2.0990u |
| V 292.401 | -0.1277u | -0.2179u | -0.3121u |
| Zn 206.200 | 22.7327 | 22.8344 | 21.9037 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.1563b | ppb | 0.1403 | 89.7 | -20.1461 |
| Al 308.215 | 18.6210b | ppb | 0.8506 | 4.6 | 728.138 |
| As 188.980 | -3.0964b | ppb | 2.6907 | 86.9 | -7.3094 |
| B 249.678 | 43.6852b | ppb | 0.6107 | 1.4 | 771.692 |
| Ba 389.178 | 83.1930b | ppb | 0.2476 | 0.3 | 1720.58 |
| Be 313.042 | -0.0180b | ppb | 0.0044 | 24.5 | -286.252 |
| Ca 370.602 | 50043b | ppb | 87.14 | 0.2 | 145164 |
| Cd 226.502 | 0.2666b | ppb | 0.0606 | 22.7 | 19.2988 |
| Co 228.615 | 0.1998b | ppb | 0.2283 | 114.2 | 9.1925 |
| Cr 267.716 | 0.1203b | ppb | 0.0516 | 42.9 | 46.7685 |
| Cu 324.754 | 28.8340b | ppb | 0.1042 | 0.4 | 2380.04 |
| Fe 271.441 | 50.8814b | ppb | 1.2694 | 2.5 | 96.2333 |
| K 766.491 | 21058.9b | ppb | 76.8640 | 0.4 | 943505 |
| Mg 279.078 | 7533.89b | ppb | 10.3868 | 0.1 | 20545.5 |
| Mn 257.610 | 23.2782b | ppb | 0.0565 | 0.2 | 4667.20 |
| Mo 202.032 | -0.2297b | ppb | 0.3722 | 162.0 | 4.8190 |
| Na 330.237 | 286591xb | ppb | 126.467 | 0.0 | 12882.5 |
| Ni 231.604 | 1.8342b | ppb | 0.1952 | 10.6 | 0.1051 |
| Pb 220.353 | 1.2175b | ppb | 0.7679 | 63.1 | 11.4147 |
| Sb 206.834 | 1.4289b | ppb | 1.3238 | 92.6 | -3.6061 |
| Se 196.026 | 0.9853b | ppb | 0.3886 | 39.4 | 1.2379 |
| Sn 189.925 | 0.9782b | ppb | 2.5253 | 258.1 | -4.9185 |
| Sr 216.596 | 742.843b | ppb | 1.8971 | 0.3 | 9220.59 |
| Ti 334.941 | 0.0563b | ppb | 0.0137 | 24.3 | -24.1179 |
| Tl 190.794 | -0.6758b | ppb | 2.0727 | 306.7 | -8.4353 |
| V 292.401 | -0.2192b | ppb | 0.0922 | 42.1 | -19.0060 |
| Zn 206.200 | 22.4903b | ppb | 0.5106 | 2.3 | 24.9523 |

**680-106151-a-1-a (Samp)** **10/17/2014, 9:03:43 PM** **Rack 2, Tube 35**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2585u | -0.1831u | 0.0624u |
| Al 308.215 | 18.6784 | 19.2724 | 20.5182 |
| As 188.980 | -4.0134u | 1.3573 | -2.1564u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 18.7565 | 18.3759 | 17.9500 |
| Ba 389.178 | 35.8252 | 35.3826 | 35.4982 |
| Be 313.042 | -0.0412u | -0.0394u | -0.0428u |
| Ca 370.602 | 22777 | 22727 | 22701 |
| Cd 226.502 | 0.0104 | 0.0354 | 0.2000 |
| Co 228.615 | -0.1603u | -0.2105u | -0.2329u |
| Cr 267.716 | 0.4185 | 0.5613 | 0.4470 |
| Cu 324.754 | 22.4152 | 22.1978 | 22.2009 |
| Fe 271.441 | 74.5505 | 70.6319 | 73.1703 |
| K 766.491 | 1752.76 | 1718.29 | 1716.01 |
| Mg 279.078 | 5131.73 | 5114.40 | 5119.17 |
| Mn 257.610 | 12.5106 | 12.5459 | 12.5387 |
| Mo 202.032 | 9.8120 | 9.7086 | 9.5267 |
| Na 330.237 | 13603.6 | 13318.3 | 13547.2 |
| Ni 231.604 | 1.8621 | 1.0245 | 0.0839 |
| Pb 220.353 | 1.9639 | 3.1695 | 1.2975 |
| Sb 206.834 | 2.7607 | 3.1831 | -0.4197u |
| Se 196.026 | -0.7295u | -5.0010u | 5.2258 |
| Sn 189.925 | 1.8868 | 1.5436 | 0.2930 |
| Sr 216.596 | 159.776 | 158.409 | 158.914 |
| Ti 334.941 | 0.0474 | 0.0663 | 0.0822 |
| Tl 190.794 | -0.9561u | 0.1214 | -0.7853u |
| V 292.401 | -0.1785u | 0.0309u | 0.1063 |
| Zn 206.200 | 11.8356 | 11.8034 | 12.3794 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1264 | ppb | 0.1678 | 132.7 | -23.4093 |
| Al 308.215 | 19.4897 | ppb | 0.9390 | 4.8 | 734.565 |
| As 188.980 | -1.6042 | ppb | 2.7276 | 170.0 | -6.3081 |
| B 249.678 | 18.3608 | ppb | 0.4035 | 2.2 | 348.378 |
| Ba 389.178 | 35.5687 | ppb | 0.2296 | 0.6 | 692.153 |
| Be 313.042 | -0.0411 | ppb | 0.0017 | 4.1 | -309.203 |
| Ca 370.602 | 22735 | ppb | 38.47 | 0.2 | 65961 |
| Cd 226.502 | 0.0819 | ppb | 0.1030 | 125.7 | 13.2182 |
| Co 228.615 | -0.2012 | ppb | 0.0372 | 18.5 | 4.1870 |
| Cr 267.716 | 0.4756 | ppb | 0.0756 | 15.9 | 60.9291 |
| Cu 324.754 | 22.2713 | ppb | 0.1247 | 0.6 | 1894.11 |
| Fe 271.441 | 72.7842 | ppb | 1.9876 | 2.7 | 130.707 |
| K 766.491 | 1729.02 | ppb | 20.5935 | 1.2 | 77688.6 |
| Mg 279.078 | 5121.77 | ppb | 8.9548 | 0.2 | 13975.1 |
| Mn 257.610 | 12.5317 | ppb | 0.0187 | 0.1 | 2537.52 |
| Mo 202.032 | 9.6825 | ppb | 0.1444 | 1.5 | 72.6654 |
| Na 330.237 | 13489.7 | ppb | 151.055 | 1.1 | 630.673 |
| Ni 231.604 | 0.9902 | ppb | 0.8896 | 89.8 | -2.5318 |
| Pb 220.353 | 2.1437 | ppb | 0.9488 | 44.3 | 12.8607 |
| Sb 206.834 | 1.8413 | ppb | 1.9695 | 107.0 | -3.1896 |
| Se 196.026 | -0.1682 | ppb | 5.1365 | 3053.6 | 0.6925 |
| Sn 189.925 | 1.2412 | ppb | 0.8388 | 67.6 | -4.8043 |
| Sr 216.596 | 159.033 | ppb | 0.6912 | 0.4 | 1983.94 |
| Ti 334.941 | 0.0653 | ppb | 0.0174 | 26.6 | -4.5088 |
| Tl 190.794 | -0.5400 | ppb | 0.5791 | 107.2 | -8.3287 |
| V 292.401 | -0.0137 | ppb | 0.1476 | 1074.3 | -13.2916 |
| Zn 206.200 | 12.0061 | ppb | 0.3236 | 2.7 | 13.4300 |

**680-106151-a-2-a (Samp)** **10/17/2014, 9:08:00 PM** **Rack 2, Tube 36**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0272u | -0.2868u | -0.2542u |
| Al 308.215 | 15.6918 | 16.3314 | 17.3565 |
| As 188.980 | -6.7876u | 0.3437 | -5.0051u |
| B 249.678 | 14.7377 | 14.4440 | 13.9989 |
| Ba 389.178 | 32.8733 | 32.9966 | 33.2069 |
| Be 313.042 | -0.0437u | -0.0416u | -0.0418u |
| Ca 370.602 | 21002 | 21038 | 21058 |
| Cd 226.502 | 0.1425 | -0.0275u | 0.0812 |
| Co 228.615 | -0.1238u | -0.8191u | -0.3160u |
| Cr 267.716 | 0.0816 | 0.1496 | 0.1070 |
| Cu 324.754 | 272.076 | 270.402 | 272.764 |
| Fe 271.441 | 7.6325 | 12.8479 | 15.2909 |
| K 766.491 | 1625.69 | 1627.28 | 1627.97 |
| Mg 279.078 | 4718.81 | 4721.34 | 4718.29 |
| Mn 257.610 | 10.7839 | 10.8526 | 10.7961 |
| Mo 202.032 | 8.8580 | 8.4781 | 8.4457 |
| Na 330.237 | 12438.6 | 12266.9 | 12222.0 |
| Ni 231.604 | 0.3635 | 0.2147 | 1.5118 |
| Pb 220.353 | 1.6478 | 1.0743 | 0.7350 |
| Sb 206.834 | 1.1761 | 2.6996 | 0.3237 |
| Se 196.026 | 7.0456 | -8.6190u | -4.9931u |
| Sn 189.925 | 3.1191 | 3.1819 | -1.6991u |
| Sr 216.596 | 146.738 | 146.721 | 147.418 |
| Ti 334.941 | 0.0654 | 0.0500 | 0.0397 |
| Tl 190.794 | 2.7697 | -0.6849u | -0.0185u |
| V 292.401 | -0.3092u | -0.2465u | 0.1879 |
| Zn 206.200 | 14.4770 | 16.0660 | 16.8249 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1713 | ppb | 0.1726 | 100.8 | -26.8448 |
| Al 308.215 | 16.4599 | ppb | 0.8398 | 5.1 | 714.101 |
| As 188.980 | -3.8163 | ppb | 3.7113 | 97.2 | -7.7963 |
| B 249.678 | 14.3936 | ppb | 0.3720 | 2.6 | 282.193 |
| Ba 389.178 | 33.0256 | ppb | 0.1687 | 0.5 | 636.834 |
| Be 313.042 | -0.0424 | ppb | 0.0011 | 2.7 | -311.697 |
| Ca 370.602 | 21033 | ppb | 28.75 | 0.1 | 61023 |
| Cd 226.502 | 0.0654 | ppb | 0.0861 | 131.6 | 12.3105 |
| Co 228.615 | -0.4196 | ppb | 0.3590 | 85.6 | 1.6418 |
| Cr 267.716 | 0.1127 | ppb | 0.0344 | 30.5 | 40.8927 |
| Cu 324.754 | 271.747 | ppb | 1.2146 | 0.4 | 20382.5 |
| Fe 271.441 | 11.9238 | ppb | 3.9119 | 32.8 | 34.7857 |
| K 766.491 | 1626.98 | ppb | 1.1667 | 0.1 | 73117.9 |
| Mg 279.078 | 4719.48 | ppb | 1.6269 | 0.0 | 12879.3 |
| Mn 257.610 | 10.8109 | ppb | 0.0367 | 0.3 | 2196.10 |
| Mo 202.032 | 8.5939 | ppb | 0.2293 | 2.7 | 65.2171 |
| Na 330.237 | 12309.2 | ppb | 114.302 | 0.9 | 577.667 |
| Ni 231.604 | 0.6967 | ppb | 0.7098 | 101.9 | -3.4539 |
| Pb 220.353 | 1.1524 | ppb | 0.4614 | 40.0 | 11.2947 |
| Sb 206.834 | 1.3998 | ppb | 1.2036 | 86.0 | -3.8091 |
| Se 196.026 | -2.1888 | ppb | 8.2002 | 374.6 | -0.2595 |
| Sn 189.925 | 1.5340 | ppb | 2.8001 | 182.5 | -4.5829 |
| Sr 216.596 | 146.959 | ppb | 0.3976 | 0.3 | 1833.80 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 0.0517 | ppb | 0.0129 | 25.0 | -9.1031 |
| Tl 190.794 | 0.6888 | ppb | 1.8327 | 266.1 | -6.9452 |
| V 292.401 | -0.1226 | ppb | 0.2707 | 220.8 | -15.9873 |
| Zn 206.200 | 15.7893 | ppb | 1.1982 | 7.6 | 17.5908 |

**Cont Calib Verif (CCV)** **10/17/2014, 9:12:17 PM** **Rack 2, Tube 37**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 496.326 | 497.470 | 493.822 |
| Al 308.215 | 4832.50 | 4807.70 | 4807.22 |
| As 188.980 | 459.160 | 459.740 | 463.858 |
| B 249.678 | 486.379 | 485.840 | 488.076 |
| Ba 389.178 | 5003.27 | 4996.78 | 4997.60 |
| Be 313.042 | 493.305 | 492.125 | 492.223 |
| Ca 370.602 | 4724 | 4697 | 4694 |
| Cd 226.502 | 506.365 | 503.758 | 503.060 |
| Co 228.615 | 493.325 | 491.876 | 487.874 |
| Cr 267.716 | 4925.67 | 4907.94 | 4903.08 |
| Cu 324.754 | 5042.07 | 4966.93 | 4940.84 |
| Fe 271.441 | 4902.61 | 4888.52 | 4866.94 |
| K 766.491 | 10004.5 | 9955.31 | 9957.69 |
| Mg 279.078 | 4850.39 | 4834.30 | 4843.36 |
| Mn 257.610 | 4831.52 | 4808.78 | 4802.21 |
| Mo 202.032 | 489.423 | 485.609 | 487.714 |
| Na 330.237 | 7586.70 | 7777.63 | 7639.93 |
| Ni 231.604 | 2510.96 | 2497.13 | 2492.60 |
| Pb 220.353 | 500.364 | 498.679 | 500.272 |
| Sb 206.834 | 942.309 | 929.200 | 937.166 |
| Se 196.026 | 4839.39 | 4830.79 | 4812.52 |
| Sn 189.925 | 4966.95 | 4892.64 | 4899.48 |
| Sr 216.596 | 2496.23 | 2484.64 | 2480.45 |
| Ti 334.941 | 492.197 | 490.013 | 490.123 |
| Tl 190.794 | 4961.80 | 4931.43 | 4929.08 |
| V 292.401 | 4781.65 | 4765.30 | 4758.60 |
| Zn 206.200 | 2470.39 | 2449.21 | 2447.59 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 495.873 | ppb | 1.8656 | 0.4 | 42260.1 | 99.17451 |
| Al 308.215 | 4815.81 | ppb | 14.4598 | 0.3 | 33407.8 | 96.31616 |
| As 188.980 | 460.919 | ppb | 2.5611 | 0.6 | 304.858 | 92.18384 |
| B 249.678 | 486.765 | ppb | 1.1669 | 0.2 | 8179.18 | 97.35297 |
| Ba 389.178 | 4999.22 | ppb | 3.5362 | 0.1 | 107557 | 99.98433 |
| Be 313.042 | 492.551 | ppb | 0.6549 | 0.1 | 891247 | 98.51022 |
| Ca 370.602 | 4705 | ppb | 16.39 | 0.3 | 14002 | 94.10132 |
| Cd 226.502 | 504.394 | ppb | 1.7420 | 0.3 | 21295.8 | 100.87884 |
| Co 228.615 | 491.025 | ppb | 2.8234 | 0.6 | 5782.99 | 98.20503 |
| Cr 267.716 | 4912.23 | ppb | 11.8884 | 0.2 | 270453 | 98.24458 |
| Cu 324.754 | 4983.28 | ppb | 52.5582 | 1.1 | 369500 | 99.66563 |
| Fe 271.441 | 4886.02 | ppb | 17.9628 | 0.4 | 7824.42 | 97.72049 |
| K 766.491 | 9972.51 | ppb | 27.7496 | 0.3 | 446927 | 99.72511 |
| Mg 279.078 | 4842.68 | ppb | 8.0672 | 0.2 | 13109.4 | 96.85362 |
| Mn 257.610 | 4814.17 | ppb | 15.3788 | 0.3 | 946942 | 96.28335 |
| Mo 202.032 | 487.582 | ppb | 1.9107 | 0.4 | 3338.20 | 97.51637 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Na 330.237 | 7668.09 | ppb | 98.5272 | 1.3 | 310.453 | 102.24114 |
| Ni 231.604 | 2500.23 | ppb | 9.5644 | 0.4 | 7813.04 | 100.00908 |
| Pb 220.353 | 499.772 | ppb | 0.9473 | 0.2 | 801.785 | 99.95436 |
| Sb 206.834 | 936.225 | ppb | 6.6052 | 0.7 | 1381.91 | 93.62252 |
| Se 196.026 | 4827.56 | ppb | 13.7216 | 0.3 | 2274.24 | 96.55128 |
| Sn 189.925 | 4919.69 | ppb | 41.0678 | 0.8 | 3720.96 | 98.39381 |
| Sr 216.596 | 2487.11 | ppb | 8.1721 | 0.3 | 30718.9 | 99.48427 |
| Ti 334.941 | 490.778 | ppb | 1.2304 | 0.3 | 143017 | 98.15557 |
| Tl 190.794 | 4940.77 | ppb | 18.2546 | 0.4 | 5527.62 | 98.81539 |
| V 292.401 | 4768.52 | ppb | 11.8567 | 0.2 | 124253 | 95.37032 |
| Zn 206.200 | 2455.73 | ppb | 12.7205 | 0.5 | 2682.64 | 98.22906 |

**Cont Calib Blank (CCB)** **10/17/2014, 9:16:33 PM** **Rack 2, Tube 38**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates | Concentration | |
|---|---|---|---|
| Ag 328.068 | 0.0553 | -0.1964u | -0.0088u |
| Al 308.215 | -7.1874u | -7.9212u | -6.4666u |
| As 188.980 | 2.2522 | 1.1167 | -1.6190u |
| B 249.678 | 10.8679 | 9.2857 | 8.5365 |
| Ba 389.178 | 0.2730 | 0.8950 | 0.8000 |
| Be 313.042 | -0.0017u | 0.0113 | 0.0140 |
| Ca 370.602 | 2.292 | 2.481 | 3.397 |
| Cd 226.502 | 0.2860 | 0.1442 | 0.1519 |
| Co 228.615 | -0.3652u | -0.0443u | -0.0260u |
| Cr 267.716 | 0.2180 | 0.4376 | 0.5601 |
| Cu 324.754 | 0.5807 | 0.4708 | 0.4434 |
| Fe 271.441 | 1.6081 | -0.3736u | 1.2932 |
| K 766.491 | 1.3184 | 1.6635 | 1.7284 |
| Mg 279.078 | 1.9875 | -1.8447u | 0.6972 |
| Mn 257.610 | 0.4842 | 0.5158 | 0.6547 |
| Mo 202.032 | 0.6109 | 0.6412 | 0.8745 |
| Na 330.237 | 165.574 | -35.8229u | 82.9247 |
| Ni 231.604 | -0.9757u | 1.1058 | 0.4154 |
| Pb 220.353 | 0.9875 | 0.4429 | -0.1990u |
| Sb 206.834 | 4.9808 | 6.1569 | 0.9531 |
| Se 196.026 | 5.5505 | 2.0808 | -0.2210u |
| Sn 189.925 | -0.5387u | 0.3653 | -0.4210u |
| Sr 216.596 | 0.1960 | 0.3083 | 0.0944 |
| Ti 334.941 | 0.0917 | 0.0534 | 0.0830 |
| Tl 190.794 | 1.9759 | 1.9876 | 1.0283 |
| V 292.401 | 0.5622 | 0.4025 | 0.7173 |
| Zn 206.200 | 2.8599 | 1.2129 | -0.4494u |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | -0.0500 | ppb | 0.1308 | 261.8 | -11.1047 | -0.04996 |
| Al 308.215 | -7.1917 | ppb | 0.7273 | 10.1 | 555.086 | -7.19175 |
| As 188.980 | 0.5833 | ppb | 1.9899 | 341.2 | -4.8331 | 0.58326 |
| B 249.678 | 9.5634 | ppb | 1.1902 | 12.4 | 201.548 | 9.56335 |
| Ba 389.178 | 0.6560 | ppb | 0.3351 | 51.1 | -66.4768 | 0.65601 |
| Be 313.042 | 0.0079 | ppb | 0.0084 | 106.4 | -225.756 | 0.00788 |
| Ca 370.602 | 2.724 | ppb | 0.5911 | 21.7 | 28.30 | 2.72354 |
| Cd 226.502 | 0.1940 | ppb | 0.0797 | 41.1 | 17.6905 | 0.19401 |
| Co 228.615 | -0.1452 | ppb | 0.1908 | 131.4 | 5.0961 | -0.14517 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Cr 267.716 | 0.4052 | ppb | 0.1734 | 42.8 | 56.6915 | 0.40523 |
| Cu 324.754 | 0.4983 | ppb | 0.0727 | 14.6 | 280.122 | 0.49828 |
| Fe 271.441 | 0.8426 | ppb | 1.0649 | 126.4 | 17.3645 | 0.84258 |
| K 766.491 | 1.5701 | ppb | 0.2204 | 14.0 | 313.459 | 1.57014 |
| Mg 279.078 | 0.2800 | ppb | 1.9498 | 696.3 | 24.2452 | 0.28002 |
| Mn 257.610 | 0.5516 | ppb | 0.0906 | 16.4 | 144.736 | 0.55158 |
| Mo 202.032 | 0.7089 | ppb | 0.1442 | 20.3 | 11.2456 | 0.70887 |
| Na 330.237 | 70.8919 | ppb | 101.236 | 142.8 | 28.9407 | 70.89194 |
| Ni 231.604 | 0.1818 | ppb | 1.0602 | 583.1 | -5.0662 | 0.18182 |
| Pb 220.353 | 0.4105 | ppb | 0.5939 | 144.7 | 10.1334 | 0.41046 |
| Sb 206.834 | 4.0303 | ppb | 2.7290 | 67.7 | 0.0922 | 4.03026 |
| Se 196.026 | 2.4701 | ppb | 2.9053 | 117.6 | 1.9306 | 2.47009 |
| Sn 189.925 | -0.1981 | ppb | 0.4915 | 248.1 | -5.8987 | -0.19813 |
| Sr 216.596 | 0.1996 | ppb | 0.1070 | 53.6 | 8.8346 | 0.19956 |
| Ti 334.941 | 0.0760 | ppb | 0.0201 | 26.4 | -9.5208 | 0.07604 |
| Tl 190.794 | 1.6639 | ppb | 0.5505 | 33.1 | -5.8285 | 1.66392 |
| V 292.401 | 0.5607 | ppb | 0.1574 | 28.1 | 3.1791 | 0.56069 |
| Zn 206.200 | 1.2078 | ppb | 1.6547 | 137.0 | 1.5680 | 1.20778 |

**mb 680-354097/1-a (Samp)** **10/17/2014, 9:20:50 PM** **Rack 2, Tube 39**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1046u | -0.0430u | 0.1748 |
| Al 308.215 | -7.0997u | -5.6769u | -6.2630u |
| As 188.980 | -4.8997u | -4.5498u | -6.5195u |
| B 249.678 | 5.5461 | 5.1888 | 4.7378 |
| Ba 389.178 | -0.2608u | 0.0220 | -0.3628u |
| Be 313.042 | -0.0271u | -0.0287u | -0.0331u |
| Ca 370.602 | -0.6111u | 4.401 | -4.542u |
| Cd 226.502 | 0.3007 | 0.0683 | 0.0309 |
| Co 228.615 | -0.0216u | -0.1576u | -0.5136u |
| Cr 267.716 | 0.2636 | 0.2853 | 0.3032 |
| Cu 324.754 | 0.0753 | 0.3583 | 0.5769 |
| Fe 271.441 | -0.2902u | 1.4719 | 4.1333 |
| K 766.491 | 0.3694 | 0.4998 | 0.1097 |
| Mg 279.078 | -0.6377u | -0.2400u | 2.2131 |
| Mn 257.610 | 0.2204 | 0.2121 | 0.2017 |
| Mo 202.032 | 0.8102 | 0.0776 | 0.3394 |
| Na 330.237 | 103.706 | 4.0984 | 54.0330 |
| Ni 231.604 | 0.0175 | -0.4973u | 0.5403 |
| Pb 220.353 | 1.7900 | 0.6002 | 2.9902 |
| Sb 206.834 | 2.9487 | 2.7044 | 3.3239 |
| Se 196.026 | -0.9530u | 1.6876 | 5.3604 |
| Sn 189.925 | -3.1790u | 0.4775 | 0.4184 |
| Sr 216.596 | 0.3300 | 0.2745 | 0.0919 |
| Ti 334.941 | -0.0112u | 0.0170 | 0.0418 |
| Tl 190.794 | -1.3543u | 1.0767 | 0.1999 |
| V 292.401 | -0.5135u | -0.3495u | -0.3605u |
| Zn 206.200 | 5.6968 | 6.2795 | 5.5821 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0091 | ppb | 0.1468 | 1620.0 | -6.0628 |
| Al 308.215 | -6.3466 | ppb | 0.7151 | 11.3 | 560.689 |

 

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | -5.3230 | ppb | 1.0509 | 19.7 | -8.8081 |
| B 249.678 | 5.1576 | ppb | 0.4051 | 7.9 | 127.873 |
| Ba 389.178 | -0.2005 | ppb | 0.1994 | 99.4 | -84.9163 |
| Be 313.042 | -0.0297 | ppb | 0.0031 | 10.5 | -293.627 |
| Ca 370.602 | -0.2504 | ppb | 4.482 | 1790.1 | 19.61 |
| Cd 226.502 | 0.1333 | ppb | 0.1462 | 109.7 | 15.1411 |
| Co 228.615 | -0.2310 | ppb | 0.2541 | 110.0 | 4.0989 |
| Cr 267.716 | 0.2840 | ppb | 0.0199 | 7.0 | 50.0236 |
| Cu 324.754 | 0.3368 | ppb | 0.2515 | 74.7 | 268.149 |
| Fe 271.441 | 1.7716 | ppb | 2.2270 | 125.7 | 18.8243 |
| K 766.491 | 0.3263 | ppb | 0.1986 | 60.9 | 257.746 |
| Mg 279.078 | 0.4452 | ppb | 1.5440 | 346.8 | 24.7017 |
| Mn 257.610 | 0.2114 | ppb | 0.0094 | 4.4 | 77.8446 |
| Mo 202.032 | 0.4091 | ppb | 0.3712 | 90.7 | 9.1939 |
| Na 330.237 | 53.9457 | ppb | 49.8037 | 92.3 | 28.0685 |
| Ni 231.604 | 0.0201 | ppb | 0.5188 | 2574.9 | -5.5716 |
| Pb 220.353 | 1.7935 | ppb | 1.1950 | 66.6 | 12.3146 |
| Sb 206.834 | 2.9923 | ppb | 0.3121 | 10.4 | -1.3839 |
| Se 196.026 | 2.0317 | ppb | 3.1707 | 156.1 | 1.7242 |
| Sn 189.925 | -0.7610 | ppb | 2.0942 | 275.2 | -6.3251 |
| Sr 216.596 | 0.2321 | ppb | 0.1246 | 53.7 | 9.2433 |
| Ti 334.941 | 0.0159 | ppb | 0.0265 | 166.9 | -27.0577 |
| Tl 190.794 | -0.0259 | ppb | 1.2311 | 4752.8 | -7.7181 |
| V 292.401 | -0.4078 | ppb | 0.0917 | 22.5 | -22.0497 |
| Zn 206.200 | 5.8528 | ppb | 0.3740 | 6.4 | 6.6722 |

**lcs 680-354097/2-a (Samp)** **10/17/2014, 9:25:06 PM** **Rack 2, Tube 40**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 49.9034 | 49.4767 | 49.2620 |
| Al 308.215 | 4778.95 | 4760.36 | 4762.68 |
| As 188.980 | 98.8254 | 101.319 | 94.8241 |
| B 249.678 | 195.443 | 196.151 | 196.798 |
| Ba 389.178 | 101.064 | 99.7135 | 99.9285 |
| Be 313.042 | 50.0062 | 49.8689 | 49.9262 |
| Ca 370.602 | 4631 | 4638 | 4651 |
| Cd 226.502 | 51.2746 | 50.8546 | 50.8335 |
| Co 228.615 | 48.6888 | 49.2184 | 49.4168 |
| Cr 267.716 | 99.0449 | 98.5684 | 98.5375 |
| Cu 324.754 | 99.1953 | 98.9266 | 99.1997 |
| Fe 271.441 | 4874.90 | 4874.11 | 4869.36 |
| K 766.491 | 4953.37 | 4956.03 | 4955.48 |
| Mg 279.078 | 4763.32 | 4750.71 | 4768.99 |
| Mn 257.610 | 488.909 | 490.157 | 491.938 |
| Mo 202.032 | 98.0758 | 96.6663 | 97.9372 |
| Na 330.237 | 4861.72 | 4936.47 | 4948.03 |
| Ni 231.604 | 99.7650 | 96.2352 | 99.4883 |
| Pb 220.353 | 502.176 | 498.559 | 502.045 |
| Sb 206.834 | 52.9786 | 50.6155 | 49.2409 |
| Se 196.026 | 101.954 | 103.129 | 91.9610 |
| Sn 189.925 | 192.678 | 194.794 | 195.438 |
| Sr 216.596 | 98.0585 | 97.2032 | 97.6045 |
| Ti 334.941 | 99.4292 | 99.1903 | 99.4129 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 39.5995 | 40.5964 | 40.4469 |
| V 292.401 | 95.7533 | 95.9903 | 96.3754 |
| Zn 206.200 | 103.171 | 101.469 | 101.537 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 49.5474 | ppb | 0.3265 | 0.7 | 4220.09 |
| Al 308.215 | 4767.33 | ppb | 10.1288 | 0.2 | 32585.3 |
| As 188.980 | 98.3229 | ppb | 3.2767 | 3.3 | 60.9378 |
| B 249.678 | 196.131 | ppb | 0.6773 | 0.3 | 3308.80 |
| Ba 389.178 | 100.235 | ppb | 0.7258 | 0.7 | 2086.87 |
| Be 313.042 | 49.9337 | ppb | 0.0690 | 0.1 | 90109.1 |
| Ca 370.602 | 4640 | ppb | 10.07 | 0.2 | 13478 |
| Cd 226.502 | 50.9875 | ppb | 0.2488 | 0.5 | 2177.48 |
| Co 228.615 | 49.1080 | ppb | 0.3763 | 0.8 | 583.774 |
| Cr 267.716 | 98.7169 | ppb | 0.2845 | 0.3 | 5473.02 |
| Cu 324.754 | 99.1072 | ppb | 0.1564 | 0.2 | 7592.66 |
| Fe 271.441 | 4872.79 | ppb | 2.9989 | 0.1 | 7700.26 |
| K 766.491 | 4954.96 | ppb | 1.4034 | 0.0 | 222183 |
| Mg 279.078 | 4761.00 | ppb | 9.3569 | 0.2 | 12980.2 |
| Mn 257.610 | 490.335 | ppb | 1.5225 | 0.3 | 96522.8 |
| Mo 202.032 | 97.5598 | ppb | 0.7768 | 0.8 | 673.836 |
| Na 330.237 | 4915.41 | ppb | 46.8515 | 1.0 | 242.663 |
| Ni 231.604 | 98.4962 | ppb | 1.9630 | 2.0 | 302.711 |
| Pb 220.353 | 500.927 | ppb | 2.0513 | 0.4 | 799.530 |
| Sb 206.834 | 50.9450 | ppb | 1.8905 | 3.7 | 66.7519 |
| Se 196.026 | 99.0146 | ppb | 6.1368 | 6.2 | 47.5379 |
| Sn 189.925 | 194.304 | ppb | 1.4439 | 0.7 | 141.440 |
| Sr 216.596 | 97.6221 | ppb | 0.4279 | 0.4 | 1218.41 |
| Ti 334.941 | 99.3441 | ppb | 0.1335 | 0.1 | 28931.7 |
| Tl 190.794 | 40.2143 | ppb | 0.5376 | 1.3 | 36.8522 |
| V 292.401 | 96.0396 | ppb | 0.3140 | 0.3 | 2480.09 |
| Zn 206.200 | 102.059 | ppb | 0.9636 | 0.9 | 111.842 |

**lcsd 680-354097/24-a (Samp)** **10/17/2014, 9:29:23 PM** **Rack 2, Tube 41**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 49.3976 | 48.9438 | 49.6750 |
| Al 308.215 | 4801.39 | 4756.17 | 4771.26 |
| As 188.980 | 95.4647 | 99.5509 | 97.3846 |
| B 249.678 | 195.671 | 195.674 | 197.097 |
| Ba 389.178 | 99.5715 | 99.9216 | 100.097 |
| Be 313.042 | 49.8188 | 49.8183 | 49.9880 |
| Ca 370.602 | 4628 | 4616 | 4629 |
| Cd 226.502 | 50.9069 | 50.9648 | 50.7833 |
| Co 228.615 | 48.4939 | 48.2003 | 49.3389 |
| Cr 267.716 | 98.3146 | 98.4873 | 98.5631 |
| Cu 324.754 | 97.7433 | 100.251 | 99.4122 |
| Fe 271.441 | 4869.91 | 4865.45 | 4859.14 |
| K 766.491 | 4925.00 | 4932.09 | 4943.00 |
| Mg 279.078 | 4743.90 | 4739.17 | 4754.04 |
| Mn 257.610 | 486.429 | 486.924 | 487.200 |
| Mo 202.032 | 98.2566 | 96.7792 | 98.9191 |
| Na 330.237 | 4774.68 | 4900.61 | 4749.56 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 99.4433 | 96.9755 | 97.8084 |
| Pb 220.353 | 501.485 | 498.147 | 501.268 |
| Sb 206.834 | 51.9127 | 50.8693 | 51.2596 |
| Se 196.026 | 104.385 | 92.6630 | 96.1804 |
| Sn 189.925 | 197.349 | 199.531 | 201.013 |
| Sr 216.596 | 97.2790 | 97.2760 | 97.0400 |
| Ti 334.941 | 99.4570 | 99.4206 | 99.6879 |
| Tl 190.794 | 37.0022 | 38.8671 | 36.9852 |
| V 292.401 | 95.7597 | 95.5679 | 95.2085 |
| Zn 206.200 | 102.351 | 104.177 | 100.726 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 49.3388 | ppb | 0.3691 | 0.7 | 4202.29 |
| Al 308.215 | 4776.27 | ppb | 23.0206 | 0.5 | 32645.3 |
| As 188.980 | 97.4668 | ppb | 2.0443 | 2.1 | 60.3616 |
| B 249.678 | 196.147 | ppb | 0.8223 | 0.4 | 3309.10 |
| Ba 389.178 | 99.8632 | ppb | 0.2674 | 0.3 | 2078.85 |
| Be 313.042 | 49.8750 | ppb | 0.0978 | 0.2 | 90002.8 |
| Ca 370.602 | 4624 | ppb | 7.448 | 0.2 | 13432 |
| Cd 226.502 | 50.8850 | ppb | 0.0927 | 0.2 | 2173.15 |
| Co 228.615 | 48.6777 | ppb | 0.5911 | 1.2 | 578.698 |
| Cr 267.716 | 98.4550 | ppb | 0.1274 | 0.1 | 5458.59 |
| Cu 324.754 | 99.1355 | ppb | 1.2766 | 1.3 | 7594.79 |
| Fe 271.441 | 4864.83 | ppb | 5.4108 | 0.1 | 7687.69 |
| K 766.491 | 4933.37 | ppb | 9.0671 | 0.2 | 221216 |
| Mg 279.078 | 4745.71 | ppb | 7.5943 | 0.2 | 12938.5 |
| Mn 257.610 | 486.851 | ppb | 0.3904 | 0.1 | 95837.6 |
| Mo 202.032 | 97.9850 | ppb | 1.0955 | 1.1 | 676.747 |
| Na 330.237 | 4808.29 | ppb | 80.9394 | 1.7 | 237.843 |
| Ni 231.604 | 98.0758 | ppb | 1.2554 | 1.3 | 301.397 |
| Pb 220.353 | 500.300 | ppb | 1.8677 | 0.4 | 798.540 |
| Sb 206.834 | 51.3472 | ppb | 0.5272 | 1.0 | 67.3163 |
| Se 196.026 | 97.7429 | ppb | 6.0153 | 6.2 | 46.9390 |
| Sn 189.925 | 199.298 | ppb | 1.8430 | 0.9 | 145.223 |
| Sr 216.596 | 97.1983 | ppb | 0.1371 | 0.1 | 1213.16 |
| Ti 334.941 | 99.5218 | ppb | 0.1450 | 0.1 | 28983.5 |
| Tl 190.794 | 37.6182 | ppb | 1.0817 | 2.9 | 33.9456 |
| V 292.401 | 95.5120 | ppb | 0.2798 | 0.3 | 2466.21 |
| Zn 206.200 | 102.418 | ppb | 1.7265 | 1.7 | 112.237 |

**680-106113-e-10-e (Samp)** **10/17/2014, 9:33:39 PM** **Rack 2, Tube 42**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1658u | -0.4292u | -0.1043u |
| Al 308.215 | -3.3384 | -0.6917 | -0.3085 |
| As 188.980 | 8.9234 | 9.4339 | 7.4568 |
| B 249.678 | 59.5502 | 59.0762 | 59.0829 |
| Ba 389.178 | 17.4026 | 17.7491 | 17.7681 |
| Be 313.042 | -0.0208u | -0.0158u | -0.0170u |
| Ca 370.602 | 7858 | 7919 | 7840 |
| Cd 226.502 | -0.9551 | -0.8950 | -0.8490 |
| Co 228.615 | 7.5949 | 7.4535 | 7.9135 |
| Cr 267.716 | 1.7135 | 1.6032 | 1.6071 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 0.2864 | 0.2992 | -0.0156 |
| Fe 271.441 | 55784.8 | 56219.0 | 55906.2 |
| K 766.491 | 2228.55 | 2239.86 | 2224.68 |
| Mg 279.078 | 2898.32 | 2915.71 | 2901.89 |
| Mn 257.610 | 700.221 | 707.364 | 702.669 |
| Mo 202.032 | 1.1903 | 1.3117 | 0.8464 |
| Na 330.237 | 19282.4 | 19110.5 | 18982.9 |
| Ni 231.604 | 5.6773 | 6.1434 | 5.1245 |
| Pb 220.353 | 1.1170 | 1.5929 | 2.7958 |
| Sb 206.834 | -1.1380 | -0.9738 | 0.9036 |
| Se 196.026 | 4.3061 | -1.3253 | 1.9853 |
| Sn 189.925 | -0.1718u | -1.0609u | -0.3379u |
| Sr 216.596 | 48.4927 | 49.0811 | 49.3633 |
| Ti 334.941 | 0.0836 | 0.0906 | 0.0365 |
| Tl 190.794 | -2.7240u | -3.1765u | -3.0707u |
| V 292.401 | -0.9265u | -1.1975u | -1.2073u |
| Zn 206.200 | 9.5144 | 12.1942 | 11.4141 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.2331 | ppb | 0.1726 | 74.0 | -34.4654 |
| Al 308.215 | -1.4462 | ppb | 1.6499 | 114.1 | 688.160 |
| As 188.980 | 8.6047 | ppb | 1.0264 | 11.9 | 0.1951 |
| B 249.678 | 59.2364 | ppb | 0.2718 | 0.5 | 901.885 |
| Ba 389.178 | 17.6399 | ppb | 0.2057 | 1.2 | 332.728 |
| Be 313.042 | -0.0179 | ppb | 0.0026 | 14.7 | -273.818 |
| Ca 370.602 | 7873 | ppb | 41.49 | 0.5 | 22188 |
| Cd 226.502 | -0.8997 | ppb | 0.0532 | 5.9 | 178.146 |
| Co 228.615 | 7.6540 | ppb | 0.2356 | 3.1 | 100.646 |
| Cr 267.716 | 1.6413 | ppb | 0.0626 | 3.8 | 155.960 |
| Cu 324.754 | 0.1900 | ppb | 0.1782 | 93.8 | 281.742 |
| Fe 271.441 | 55970.0 | ppb | 224.046 | 0.4 | 88197.8 |
| K 766.491 | 2231.03 | ppb | 7.8871 | 0.4 | 100174 |
| Mg 279.078 | 2905.31 | ppb | 9.1859 | 0.3 | 7922.48 |
| Mn 257.610 | 703.418 | ppb | 3.6301 | 0.5 | 138558 |
| Mo 202.032 | 1.1161 | ppb | 0.2413 | 21.6 | 11.3934 |
| Na 330.237 | 19125.3 | ppb | 150.331 | 0.8 | 871.193 |
| Ni 231.604 | 5.6484 | ppb | 0.5101 | 9.0 | 16.8308 |
| Pb 220.353 | 1.8352 | ppb | 0.8652 | 47.1 | 16.2615 |
| Sb 206.834 | -0.4027 | ppb | 1.1343 | 281.6 | -4.4076 |
| Se 196.026 | 1.6554 | ppb | 2.8302 | 171.0 | 2.2376 |
| Sn 189.925 | -0.5235 | ppb | 0.4727 | 90.3 | -6.1394 |
| Sr 216.596 | 48.9790 | ppb | 0.4442 | 0.9 | 683.686 |
| Ti 334.941 | 0.0702 | ppb | 0.0294 | 41.9 | -0.8804 |
| Tl 190.794 | -2.9904 | ppb | 0.2367 | 7.9 | -18.3203 |
| V 292.401 | -1.1104 | ppb | 0.1594 | 14.4 | -20.5085 |
| Zn 206.200 | 11.0409 | ppb | 1.3783 | 12.5 | 9.7653 |

**680-106113-e-10-eSD (Samp)** **10/17/2014, 9:37:56 PM** **Rack 2, Tube 43**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0463u | 0.0775 | -0.1710u |
| Al 308.215 | -6.6071u | -6.3910u | -5.7585u |
| As 188.980 | 1.7215 | -0.2944u | -4.0734u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 15.0619 | 14.5280 | 14.3085 |
| Ba 389.178 | 3.5337 | 4.2534 | 3.7312 |
| Be 313.042 | -0.0279u | -0.0263u | -0.0245u |
| Ca 370.602 | 1694 | 1636 | 1597 |
| Cd 226.502 | -0.0631 | -0.1319 | -0.0892 |
| Co 228.615 | 0.8364 | 1.7156 | 1.8919 |
| Cr 267.716 | 0.4191 | 0.2894 | 0.4342 |
| Cu 324.754 | 0.0258 | 0.3026 | -0.1146u |
| Fe 271.441 | 12210.5 | 11801.4 | 11448.7 |
| K 766.491 | 482.112 | 468.383 | 457.902 |
| Mg 279.078 | 641.796 | 618.641 | 599.052 |
| Mn 257.610 | 151.963 | 147.174 | 142.725 |
| Mo 202.032 | -0.3908u | 0.4107 | 0.4842 |
| Na 330.237 | 4083.50 | 4064.69 | 3949.11 |
| Ni 231.604 | 0.7475 | 1.3673 | 0.6032 |
| Pb 220.353 | -0.8255u | 3.0597 | 0.0495 |
| Sb 206.834 | 4.6209 | 0.0749 | 1.6382 |
| Se 196.026 | 0.7959 | 6.0034 | 3.9197 |
| Sn 189.925 | 0.4364 | 2.5826 | 1.4447 |
| Sr 216.596 | 10.8013 | 10.3266 | 10.3062 |
| Ti 334.941 | 0.0035 | 0.0216 | 0.0086 |
| Tl 190.794 | 0.3043u | 0.1537u | -0.3537u |
| V 292.401 | -0.3041u | -0.4625u | -0.3753u |
| Zn 206.200 | 2.9005 | 2.7735 | 3.7984 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0466 | ppb | 0.1242 | 266.6 | -12.4520 |
| Al 308.215 | -6.2522 | ppb | 0.4410 | 7.1 | 581.274 |
| As 188.980 | -0.8821 | ppb | 2.9418 | 333.5 | -5.8974 |
| B 249.678 | 14.6328 | ppb | 0.3875 | 2.6 | 258.830 |
| Ba 389.178 | 3.8395 | ppb | 0.3719 | 9.7 | 9.1553 |
| Be 313.042 | -0.0262 | ppb | 0.0017 | 6.6 | -287.642 |
| Ca 370.602 | 1642 | ppb | 48.98 | 3.0 | 4643 |
| Cd 226.502 | -0.0947 | ppb | 0.0347 | 36.6 | 49.1498 |
| Co 228.615 | 1.4813 | ppb | 0.5654 | 38.2 | 25.0491 |
| Cr 267.716 | 0.3809 | ppb | 0.0796 | 20.9 | 61.9423 |
| Cu 324.754 | 0.0713 | ppb | 0.2123 | 297.9 | 253.624 |
| Fe 271.441 | 11820.2 | ppb | 381.277 | 3.2 | 18639.0 |
| K 766.491 | 469.466 | ppb | 12.1410 | 2.6 | 21271.2 |
| Mg 279.078 | 619.830 | ppb | 21.3966 | 3.5 | 1708.74 |
| Mn 257.610 | 147.287 | ppb | 4.6201 | 3.1 | 29041.3 |
| Mo 202.032 | 0.1681 | ppb | 0.4854 | 288.8 | 6.9868 |
| Na 330.237 | 4032.43 | ppb | 72.7700 | 1.8 | 204.012 |
| Ni 231.604 | 0.9060 | ppb | 0.4060 | 44.8 | -1.7877 |
| Pb 220.353 | 0.7612 | ppb | 2.0381 | 267.7 | 11.5068 |
| Sb 206.834 | 2.1114 | ppb | 2.3097 | 109.4 | -2.2517 |
| Se 196.026 | 3.5730 | ppb | 2.6210 | 73.4 | 2.5953 |
| Sn 189.925 | 1.4879 | ppb | 1.0737 | 72.2 | -4.6204 |
| Sr 216.596 | 10.4780 | ppb | 0.2801 | 2.7 | 151.091 |
| Ti 334.941 | 0.0112 | ppb | 0.0093 | 83.4 | -26.2096 |
| Tl 190.794 | 0.0348 | ppb | 0.3448 | 991.9 | -9.1879 |
| V 292.401 | -0.3806 | ppb | 0.0793 | 20.8 | -17.0689 |
| Zn 206.200 | 3.1575 | ppb | 0.5587 | 17.7 | 3.1605 |

**680-106113-e-10-ePDS (Samp)** **10/17/2014, 9:42:12 PM** **Rack 2, Tube 44**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 96.8063 | 97.0074 | 98.3395 |
| Al 308.215 | 951.777 | 954.757 | 948.669 |
| As 188.980 | 105.275 | 110.321 | 108.742 |
| B 249.678 | 244.150 | 247.461 | 246.189 |
| Ba 389.178 | 100.992 | 102.733 | 100.284 |
| Be 313.042 | 97.9320 | 98.1826 | 97.7441 |
| Ca 370.602 | 16960 | 17098 | 17082 |
| Cd 226.502 | 98.2177 | 98.3544 | 98.3280 |
| Co 228.615 | 104.621 | 105.262 | 103.909 |
| Cr 267.716 | 99.6173 | 100.137 | 99.4451 |
| Cu 324.754 | 97.5352 | 98.2070 | 97.9774 |
| Fe 271.441 | 64809.2 | 65018.9 | 64742.3 |
| K 766.491 | 12379.5 | 12394.2 | 12331.2 |
| Mg 279.078 | 12291.5 | 12341.4 | 12307.3 |
| Mn 257.610 | 1650.29 | 1665.70 | 1662.76 |
| Mo 202.032 | 97.1162 | 97.2555 | 97.6693 |
| Na 330.237 | 27705.7 | 27983.3 | 27770.8 |
| Ni 231.604 | 103.376 | 103.835 | 103.582 |
| Pb 220.353 | 100.661 | 100.238 | 98.0991 |
| Sb 206.834 | 96.1855 | 97.3943 | 98.3423 |
| Se 196.026 | 100.102 | 97.9933 | 98.7807 |
| Sn 189.925 | 95.4592 | 96.7509 | 95.7352 |
| Sr 216.596 | 146.658 | 147.725 | 147.520 |
| Ti 334.941 | 98.4210 | 98.7387 | 98.2253 |
| Tl 190.794 | 17.1187 | 15.7482 | 16.3370 |
| V 292.401 | 92.9730 | 94.0993 | 94.0140 |
| Zn 206.200 | 105.006 | 103.962 | 106.819 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 97.3844 | ppb | 0.8332 | 0.9 | 8296.56 |
| Al 308.215 | 951.734 | ppb | 3.0445 | 0.3 | 7107.98 |
| As 188.980 | 108.113 | ppb | 2.5812 | 2.4 | 67.0880 |
| B 249.678 | 245.933 | ppb | 1.6700 | 0.7 | 4002.44 |
| Ba 389.178 | 101.336 | ppb | 1.2603 | 1.2 | 2152.78 |
| Be 313.042 | 97.9529 | ppb | 0.2200 | 0.2 | 177001 |
| Ca 370.602 | 17047 | ppb | 75.57 | 0.4 | 48758 |
| Cd 226.502 | 98.3000 | ppb | 0.0725 | 0.1 | 4394.42 |
| Co 228.615 | 104.597 | ppb | 0.6767 | 0.6 | 1240.15 |
| Cr 267.716 | 99.7333 | ppb | 0.3605 | 0.4 | 5564.27 |
| Cu 324.754 | 97.9065 | ppb | 0.3414 | 0.3 | 7529.97 |
| Fe 271.441 | 64856.8 | ppb | 144.315 | 0.2 | 102212 |
| K 766.491 | 12368.3 | ppb | 32.9550 | 0.3 | 554238 |
| Mg 279.078 | 12313.4 | ppb | 25.4892 | 0.2 | 33528.9 |
| Mn 257.610 | 1659.58 | ppb | 8.1819 | 0.5 | 326709 |
| Mo 202.032 | 97.3470 | ppb | 0.2877 | 0.3 | 669.544 |
| Na 330.237 | 27819.9 | ppb | 145.172 | 0.5 | 1256.85 |
| Ni 231.604 | 103.598 | ppb | 0.2301 | 0.2 | 323.703 |
| Pb 220.353 | 99.6658 | ppb | 1.3732 | 1.4 | 171.173 |
| Sb 206.834 | 97.3074 | ppb | 1.0810 | 1.1 | 134.955 |
| Se 196.026 | 98.9588 | ppb | 1.0658 | 1.1 | 48.3604 |
| Sn 189.925 | 95.9818 | ppb | 0.6802 | 0.7 | 66.9671 |
| Sr 216.596 | 147.301 | ppb | 0.5664 | 0.4 | 1911.43 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 98.4617 | ppb | 0.2591 | 0.3 | 28693.1 |
| Tl 190.794 | 16.4013 | ppb | 0.6875 | 4.2 | 2.7802 |
| V 292.401 | 93.6954 | ppb | 0.6271 | 0.7 | 2440.38 |
| Zn 206.200 | 105.262 | ppb | 1.4458 | 1.4 | 112.560 |

**640-49377-b-5-b (Samp)** **10/17/2014, 9:46:29 PM** **Rack 2, Tube 45**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0153u | 0.3352 | -0.2581u |
| Al 308.215 | 569.363 | 569.665 | 568.911 |
| As 188.980 | 6.6886 | 8.8034 | 8.8246 |
| B 249.678 | 36.3716 | 36.0598 | 35.3328 |
| Ba 389.178 | -0.7661u | -0.2186u | -0.2442u |
| Be 313.042 | -0.0375u | -0.0351u | -0.0346u |
| Ca 370.602 | 32035 | 32022 | 31967 |
| Cd 226.502 | 0.1764 | 0.2763 | 0.1781 |
| Co 228.615 | 0.3817 | 0.6753 | 0.4888 |
| Cr 267.716 | 0.6203 | 0.5895 | 0.5937 |
| Cu 324.754 | 420.503 | 421.062 | 422.041 |
| Fe 271.441 | 36.5239 | 32.4935 | 27.3016 |
| K 766.491 | 1080.33 | 1083.37 | 1084.17 |
| Mg 279.078 | 1099.83 | 1102.31 | 1101.05 |
| Mn 257.610 | 53.1799 | 53.2310 | 52.9192 |
| Mo 202.032 | 6.7395 | 6.9475 | 6.8629 |
| Na 330.237 | 4636.21 | 4656.25 | 4708.95 |
| Ni 231.604 | 2.4889 | 2.4761 | 2.7897 |
| Pb 220.353 | -2.4518u | 0.9789 | 1.0381 |
| Sb 206.834 | 1.1686 | 1.4838 | 1.6155 |
| Se 196.026 | -1.2347u | 6.7635 | 6.5680 |
| Sn 189.925 | 1.6982 | -1.0529u | -2.0224u |
| Sr 216.596 | 121.389 | 120.293 | 121.393 |
| Ti 334.941 | 0.2643 | 0.2438 | 0.2777 |
| Tl 190.794 | 2.7561 | -1.8729u | -3.4991u |
| V 292.401 | 3.7492 | 3.2539 | 3.4699 |
| Zn 206.200 | 222.173 | 225.598 | 225.041 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0308 | ppb | 0.2969 | 964.4 | -8.3676 |
| Al 308.215 | 569.313 | ppb | 0.3795 | 0.1 | 4420.52 |
| As 188.980 | 8.1055 | ppb | 1.2272 | 15.1 | 0.2337 |
| B 249.678 | 35.9214 | ppb | 0.5331 | 1.5 | 641.939 |
| Ba 389.178 | -0.4097 | ppb | 0.3090 | 75.4 | -87.8581 |
| Be 313.042 | -0.0357 | ppb | 0.0016 | 4.4 | -294.176 |
| Ca 370.602 | 32008 | ppb | 36.39 | 0.1 | 92858 |
| Cd 226.502 | 0.2103 | ppb | 0.0572 | 27.2 | 18.4751 |
| Co 228.615 | 0.5153 | ppb | 0.1485 | 28.8 | 12.6863 |
| Cr 267.716 | 0.6011 | ppb | 0.0167 | 2.8 | 67.8243 |
| Cu 324.754 | 421.202 | ppb | 0.7783 | 0.2 | 31458.3 |
| Fe 271.441 | 32.1063 | ppb | 4.6233 | 14.4 | 66.6919 |
| K 766.491 | 1082.62 | ppb | 2.0285 | 0.2 | 48735.4 |
| Mg 279.078 | 1101.06 | ppb | 1.2386 | 0.1 | 3021.44 |
| Mn 257.610 | 53.1100 | ppb | 0.1672 | 0.3 | 10490.2 |
| Mo 202.032 | 6.8500 | ppb | 0.1046 | 1.5 | 53.2756 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 4667.14 | ppb | 37.5748 | 0.8 | 229.855 |
| Ni 231.604 | 2.5849 | ppb | 0.1775 | 6.9 | 2.4518 |
| Pb 220.353 | -0.1449 | ppb | 1.9980 | 1378.7 | 9.2542 |
| Sb 206.834 | 1.4226 | ppb | 0.2296 | 16.1 | -3.7401 |
| Se 196.026 | 4.0323 | ppb | 4.5624 | 113.1 | 2.6793 |
| Sn 189.925 | -0.4590 | ppb | 1.9301 | 420.5 | -6.0950 |
| Sr 216.596 | 121.025 | ppb | 0.6336 | 0.5 | 1517.38 |
| Ti 334.941 | 0.2619 | ppb | 0.0171 | 6.5 | 46.3032 |
| Tl 190.794 | -0.8719 | ppb | 3.2455 | 372.2 | -8.6555 |
| V 292.401 | 3.4910 | ppb | 0.2483 | 7.1 | 78.6777 |
| Zn 206.200 | 224.271 | ppb | 1.8379 | 0.8 | 246.675 |

**680-106138-a-19-d (Samp)** **10/17/2014, 9:50:45 PM** **Rack 2, Tube 46**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0191u | -0.2369u | -0.0566u |
| Al 308.215 | -9.5887u | -10.8773u | -7.3171u |
| As 188.980 | -4.1869u | 0.2112 | -7.3801u |
| B 249.678 | 2.6637 | 2.5651 | 3.0497 |
| Ba 389.178 | -0.3114u | 0.1078 | -0.1250u |
| Be 313.042 | -0.0348u | -0.0355u | -0.0400u |
| Ca 370.602 | 12.09 | 11.54 | 9.481 |
| Cd 226.502 | 0.2257 | 0.1590 | -0.0123u |
| Co 228.615 | 0.2970 | -0.0077u | 0.0262 |
| Cr 267.716 | 0.3559 | 0.3344 | 0.4185 |
| Cu 324.754 | 0.0646 | -0.1118u | 0.0758 |
| Fe 271.441 | 5.5280 | 3.4950 | -2.2270u |
| K 766.491 | 0.9307 | -0.2777u | -0.3529u |
| Mg 279.078 | -0.3836u | 1.5963 | 0.5253 |
| Mn 257.610 | 0.0656 | 0.0063 | 0.0719 |
| Mo 202.032 | 0.1137 | 0.3723 | 0.1223 |
| Na 330.237 | 187.062 | 154.531 | 192.151 |
| Ni 231.604 | 0.4515 | -0.8223u | 0.2109 |
| Pb 220.353 | -1.1374u | 4.5282 | 1.7726 |
| Sb 206.834 | 3.3683 | 2.7209 | 1.3707 |
| Se 196.026 | -6.2387u | 0.1434 | -9.1318u |
| Sn 189.925 | 1.2681 | 0.0488 | -3.2649u |
| Sr 216.596 | -0.0133u | 0.1713 | -0.3662u |
| Ti 334.941 | 0.0059 | -0.0191u | -0.0570u |
| Tl 190.794 | -3.7965u | -0.6620u | -1.2663u |
| V 292.401 | -0.0201u | -0.0299u | -0.3939u |
| Zn 206.200 | 4.7372 | 4.2040 | 5.6002 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1042 | ppb | 0.1165 | 111.8 | -15.7280 |
| Al 308.215 | -9.2610 | ppb | 1.8026 | 19.5 | 541.139 |
| As 188.980 | -3.7853 | ppb | 3.8115 | 100.7 | -7.7731 |
| B 249.678 | 2.7595 | ppb | 0.2561 | 9.3 | 87.8043 |
| Ba 389.178 | -0.1095 | ppb | 0.2101 | 191.8 | -82.9571 |
| Be 313.042 | -0.0368 | ppb | 0.0028 | 7.7 | -306.481 |
| Ca 370.602 | 11.04 | ppb | 1.374 | 12.5 | 52.31 |
| Cd 226.502 | 0.1241 | ppb | 0.1228 | 98.9 | 14.7590 |
| Co 228.615 | 0.1052 | ppb | 0.1670 | 158.8 | 8.0534 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 0.3696 | ppb | 0.0437 | 11.8 | 54.7351 |
| Cu 324.754 | 0.0095 | ppb | 0.1052 | 1102.0 | 243.888 |
| Fe 271.441 | 2.2653 | ppb | 4.0211 | 177.5 | 19.6177 |
| K 766.491 | 0.1000 | ppb | 0.7204 | 720.2 | 247.610 |
| Mg 279.078 | 0.5794 | ppb | 0.9911 | 171.1 | 25.0723 |
| Mn 257.610 | 0.0479 | ppb | 0.0362 | 75.5 | 45.6954 |
| Mo 202.032 | 0.2028 | ppb | 0.1469 | 72.4 | 7.7819 |
| Na 330.237 | 177.915 | ppb | 20.4101 | 11.5 | 33.6631 |
| Ni 231.604 | -0.0533 | ppb | 0.6768 | 1269.8 | -5.8015 |
| Pb 220.353 | 1.7211 | ppb | 2.8332 | 164.6 | 12.2009 |
| Sb 206.834 | 2.4866 | ppb | 1.0192 | 41.0 | -2.1014 |
| Se 196.026 | -5.0757 | ppb | 4.7457 | 93.5 | -1.6211 |
| Sn 189.925 | -0.6493 | ppb | 2.3458 | 361.3 | -6.2405 |
| Sr 216.596 | -0.0694 | ppb | 0.2731 | 393.4 | 5.5262 |
| Ti 334.941 | -0.0234 | ppb | 0.0317 | 135.4 | -38.5034 |
| Tl 190.794 | -1.9083 | ppb | 1.6629 | 87.1 | -9.8224 |
| V 292.401 | -0.1480 | ppb | 0.2131 | 144.0 | -15.2352 |
| Zn 206.200 | 4.8471 | ppb | 0.7046 | 14.5 | 5.5669 |

**680-106138-a-19-e ms (Samp)** **10/17/2014, 9:55:02 PM** **Rack 2, Tube 47**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 49.2161 | 48.8965 | 48.8246 |
| Al 308.215 | 4748.84 | 4751.96 | 4754.08 |
| As 188.980 | 92.1479 | 98.8616 | 98.2237 |
| B 249.678 | 188.975 | 190.056 | 191.243 |
| Ba 389.178 | 98.8009 | 99.8348 | 98.2735 |
| Be 313.042 | 49.4755 | 49.4912 | 49.4837 |
| Ca 370.602 | 4623 | 4629 | 4609 |
| Cd 226.502 | 50.5549 | 50.4555 | 50.6475 |
| Co 228.615 | 48.4557 | 48.2474 | 48.2365 |
| Cr 267.716 | 98.2111 | 98.2397 | 98.1837 |
| Cu 324.754 | 97.6643 | 97.9958 | 97.8674 |
| Fe 271.441 | 4848.61 | 4849.60 | 4836.37 |
| K 766.491 | 4847.59 | 4847.23 | 4847.71 |
| Mg 279.078 | 4719.43 | 4718.67 | 4717.32 |
| Mn 257.610 | 486.056 | 486.717 | 485.498 |
| Mo 202.032 | 97.7784 | 98.0403 | 97.8009 |
| Na 330.237 | 4926.96 | 4686.46 | 4902.51 |
| Ni 231.604 | 98.5071 | 98.9368 | 98.0296 |
| Pb 220.353 | 493.188 | 498.803 | 495.182 |
| Sb 206.834 | 51.3444 | 53.4116 | 51.6415 |
| Se 196.026 | 97.0204 | 96.6273 | 94.4677 |
| Sn 189.925 | 195.504 | 197.211 | 194.186 |
| Sr 216.596 | 97.7372 | 98.0139 | 97.3495 |
| Ti 334.941 | 98.5433 | 98.6366 | 98.5553 |
| Tl 190.794 | 33.3927 | 35.1478 | 38.3409 |
| V 292.401 | 94.7315 | 94.7031 | 94.7930 |
| Zn 206.200 | 100.850 | 99.5279 | 99.8680 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 48.9791 | ppb | 0.2084 | 0.4 | 4171.57 |
| Al 308.215 | 4751.62 | ppb | 2.6342 | 0.1 | 32479.9 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 96.4111 | ppb | 3.7058 | 3.8 | 59.6510 |
| B 249.678 | 190.091 | ppb | 1.1347 | 0.6 | 3207.94 |
| Ba 389.178 | 98.9697 | ppb | 0.7942 | 0.8 | 2059.56 |
| Be 313.042 | 49.4834 | ppb | 0.0079 | 0.0 | 89294.2 |
| Ca 370.602 | 4621 | ppb | 10.48 | 0.2 | 13421 |
| Cd 226.502 | 50.5526 | ppb | 0.0960 | 0.2 | 2159.07 |
| Co 228.615 | 48.3132 | ppb | 0.1235 | 0.3 | 574.402 |
| Cr 267.716 | 98.2115 | ppb | 0.0280 | 0.0 | 5445.17 |
| Cu 324.754 | 97.8425 | ppb | 0.1671 | 0.2 | 7498.96 |
| Fe 271.441 | 4844.86 | ppb | 7.3680 | 0.2 | 7656.17 |
| K 766.491 | 4847.51 | ppb | 0.2486 | 0.0 | 217370 |
| Mg 279.078 | 4718.47 | ppb | 1.0710 | 0.0 | 12864.4 |
| Mn 257.610 | 486.090 | ppb | 0.6103 | 0.1 | 95687.6 |
| Mo 202.032 | 97.8732 | ppb | 0.1452 | 0.1 | 675.983 |
| Na 330.237 | 4838.64 | ppb | 132.361 | 2.7 | 239.259 |
| Ni 231.604 | 98.4912 | ppb | 0.4538 | 0.5 | 302.695 |
| Pb 220.353 | 495.724 | ppb | 2.8461 | 0.6 | 791.326 |
| Sb 206.834 | 52.1325 | ppb | 1.1177 | 2.1 | 68.4343 |
| Se 196.026 | 96.0385 | ppb | 1.3745 | 1.4 | 46.1360 |
| Sn 189.925 | 195.634 | ppb | 1.5170 | 0.8 | 142.447 |
| Sr 216.596 | 97.7002 | ppb | 0.3338 | 0.3 | 1219.34 |
| Ti 334.941 | 98.5784 | ppb | 0.0507 | 0.1 | 28708.4 |
| Tl 190.794 | 35.6271 | ppb | 2.5087 | 7.0 | 31.7185 |
| V 292.401 | 94.7425 | ppb | 0.0460 | 0.0 | 2446.15 |
| Zn 206.200 | 100.082 | ppb | 0.6867 | 0.7 | 109.673 |

**680-106138-a-19-f ms (Samp)** **10/17/2014, 9:59:19 PM** **Rack 2, Tube 48**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 50.1787 | 49.6829 | 49.5120 |
| Al 308.215 | 4805.08 | 4761.67 | 4788.95 |
| As 188.980 | 98.7916 | 93.5985 | 98.4380 |
| B 249.678 | 193.764 | 194.590 | 194.558 |
| Ba 389.178 | 100.186 | 100.357 | 99.8594 |
| Be 313.042 | 49.5626 | 49.5112 | 49.4200 |
| Ca 370.602 | 4622 | 4613 | 4627 |
| Cd 226.502 | 50.7463 | 51.0302 | 51.0507 |
| Co 228.615 | 48.8064 | 47.9757 | 48.2632 |
| Cr 267.716 | 98.7346 | 98.9820 | 98.7681 |
| Cu 324.754 | 98.4448 | 98.7756 | 98.1647 |
| Fe 271.441 | 4880.94 | 4885.72 | 4886.12 |
| K 766.491 | 4947.80 | 4928.46 | 4917.58 |
| Mg 279.078 | 4744.79 | 4741.33 | 4741.47 |
| Mn 257.610 | 484.875 | 484.316 | 485.468 |
| Mo 202.032 | 98.7282 | 98.4779 | 97.9251 |
| Na 330.237 | 4923.29 | 4901.22 | 5033.03 |
| Ni 231.604 | 97.9562 | 98.8804 | 99.4991 |
| Pb 220.353 | 500.423 | 498.502 | 498.341 |
| Sb 206.834 | 52.3073 | 53.2774 | 47.3872 |
| Se 196.026 | 98.5850 | 92.6872 | 91.1486 |
| Sn 189.925 | 197.274 | 201.512 | 196.812 |
| Sr 216.596 | 98.1825 | 98.9152 | 98.2634 |
| Ti 334.941 | 99.8220 | 99.5321 | 99.3709 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 39.7139 | 37.1730 | 40.8630 |
| V 292.401 | 95.3810 | 95.3355 | 95.3525 |
| Zn 206.200 | 100.748 | 101.621 | 104.111 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 49.7912 | ppb | 0.3463 | 0.7 | 4240.83 |
| Al 308.215 | 4785.23 | ppb | 21.9399 | 0.5 | 32705.4 |
| As 188.980 | 96.9427 | ppb | 2.9016 | 3.0 | 60.0087 |
| B 249.678 | 194.304 | ppb | 0.4677 | 0.2 | 3278.23 |
| Ba 389.178 | 100.134 | ppb | 0.2528 | 0.3 | 2084.70 |
| Be 313.042 | 49.4979 | ppb | 0.0722 | 0.1 | 89320.3 |
| Ca 370.602 | 4621 | ppb | 7.125 | 0.2 | 13422 |
| Cd 226.502 | 50.9424 | ppb | 0.1701 | 0.3 | 2175.66 |
| Co 228.615 | 48.3484 | ppb | 0.4218 | 0.9 | 574.825 |
| Cr 267.716 | 98.8282 | ppb | 0.1342 | 0.1 | 5479.16 |
| Cu 324.754 | 98.4617 | ppb | 0.3058 | 0.3 | 7544.88 |
| Fe 271.441 | 4884.26 | ppb | 2.8784 | 0.1 | 7718.27 |
| K 766.491 | 4931.28 | ppb | 15.3046 | 0.3 | 221122 |
| Mg 279.078 | 4742.53 | ppb | 1.9567 | 0.0 | 12929.8 |
| Mn 257.610 | 484.886 | ppb | 0.5759 | 0.1 | 95451.2 |
| Mo 202.032 | 98.3771 | ppb | 0.4109 | 0.4 | 679.430 |
| Na 330.237 | 4952.52 | ppb | 70.5991 | 1.4 | 244.307 |
| Ni 231.604 | 98.7785 | ppb | 0.7765 | 0.8 | 303.597 |
| Pb 220.353 | 499.089 | ppb | 1.1585 | 0.2 | 796.633 |
| Sb 206.834 | 50.9906 | ppb | 3.1581 | 6.2 | 66.8058 |
| Se 196.026 | 94.1403 | ppb | 3.9253 | 4.2 | 45.2441 |
| Sn 189.925 | 198.533 | ppb | 2.5908 | 1.3 | 144.643 |
| Sr 216.596 | 98.4537 | ppb | 0.4017 | 0.4 | 1228.72 |
| Ti 334.941 | 99.5750 | ppb | 0.2286 | 0.2 | 28999.0 |
| Tl 190.794 | 39.2500 | ppb | 1.8882 | 4.8 | 35.7660 |
| V 292.401 | 95.3563 | ppb | 0.0230 | 0.0 | 2462.04 |
| Zn 206.200 | 102.160 | ppb | 1.7449 | 1.7 | 111.950 |

**Cont Calib Verif (CCV)** **10/17/2014, 10:03:36 PM** **Rack 2, Tube 49**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 497.162 | 493.047 | 490.501 |
| Al 308.215 | 4833.96 | 4821.46 | 4817.50 |
| As 188.980 | 464.898 | 466.090 | 459.111 |
| B 249.678 | 486.318 | 486.544 | 487.136 |
| Ba 389.178 | 5030.09 | 5023.60 | 5010.05 |
| Be 313.042 | 494.669 | 491.703 | 494.813 |
| Ca 370.602 | 4724 | 4726 | 4705 |
| Cd 226.502 | 505.911 | 505.030 | 503.338 |
| Co 228.615 | 494.468 | 491.621 | 490.646 |
| Cr 267.716 | 4933.04 | 4923.91 | 4915.82 |
| Cu 324.754 | 4980.44 | 4896.37 | 4972.29 |
| Fe 271.441 | 4905.31 | 4905.20 | 4890.32 |
| K 766.491 | 9976.18 | 9954.69 | 9949.57 |
| Mg 279.078 | 4849.36 | 4841.53 | 4821.82 |
| Mn 257.610 | 4824.04 | 4817.98 | 4822.17 |
| Mo 202.032 | 490.997 | 488.124 | 488.047 |
| Na 330.237 | 7664.11 | 7572.07 | 7594.19 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 2522.90 | 2511.33 | 2503.58 |
| Pb 220.353 | 507.698 | 504.668 | 503.693 |
| Sb 206.834 | 929.982 | 940.041 | 939.442 |
| Se 196.026 | 4814.46 | 4803.46 | 4773.17 |
| Sn 189.925 | 4953.29 | 4974.29 | 4906.47 |
| Sr 216.596 | 2506.03 | 2494.14 | 2478.02 |
| Ti 334.941 | 492.653 | 491.634 | 490.690 |
| Tl 190.794 | 4964.02 | 4946.77 | 4918.11 |
| V 292.401 | 4793.52 | 4784.30 | 4764.94 |
| Zn 206.200 | 2468.92 | 2452.17 | 2457.81 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 493.570 | ppb | 3.3613 | 0.7 | 42063.4 | 98.71403 |
| Al 308.215 | 4824.31 | ppb | 8.5943 | 0.2 | 33465.4 | 96.48612 |
| As 188.980 | 463.366 | ppb | 3.7332 | 0.8 | 306.504 | 92.67322 |
| B 249.678 | 486.666 | ppb | 0.4227 | 0.1 | 8177.49 | 97.33320 |
| Ba 389.178 | 5021.25 | ppb | 10.2228 | 0.2 | 108031 | 100.42490 |
| Be 313.042 | 493.728 | ppb | 1.7554 | 0.4 | 893377 | 98.74567 |
| Ca 370.602 | 4719 | ppb | 11.57 | 0.2 | 14043 | 94.37315 |
| Cd 226.502 | 504.759 | ppb | 1.3075 | 0.3 | 21311.2 | 100.95189 |
| Co 228.615 | 492.245 | ppb | 1.9862 | 0.4 | 5797.34 | 98.44901 |
| Cr 267.716 | 4924.26 | ppb | 8.6178 | 0.2 | 271115 | 98.48512 |
| Cu 324.754 | 4949.70 | ppb | 46.3626 | 0.9 | 367011 | 98.99397 |
| Fe 271.441 | 4900.28 | ppb | 8.6207 | 0.2 | 7847.14 | 98.00557 |
| K 766.491 | 9960.14 | ppb | 14.1226 | 0.1 | 446373 | 99.60145 |
| Mg 279.078 | 4837.57 | ppb | 14.1914 | 0.3 | 13095.1 | 96.75142 |
| Mn 257.610 | 4821.40 | ppb | 3.1025 | 0.1 | 948363 | 96.42792 |
| Mo 202.032 | 489.056 | ppb | 1.6811 | 0.3 | 3348.28 | 97.81117 |
| Na 330.237 | 7610.12 | ppb | 48.0442 | 0.6 | 307.803 | 101.46828 |
| Ni 231.604 | 2512.60 | ppb | 9.7228 | 0.4 | 7851.74 | 100.50409 |
| Pb 220.353 | 505.353 | ppb | 2.0884 | 0.4 | 810.600 | 101.07056 |
| Sb 206.834 | 936.488 | ppb | 5.6422 | 0.6 | 1382.46 | 93.64882 |
| Se 196.026 | 4797.03 | ppb | 21.3861 | 0.4 | 2259.88 | 95.94063 |
| Sn 189.925 | 4944.68 | ppb | 34.7205 | 0.7 | 3739.90 | 98.89362 |
| Sr 216.596 | 2492.73 | ppb | 14.0597 | 0.6 | 30788.1 | 99.70917 |
| Ti 334.941 | 491.659 | ppb | 0.9818 | 0.2 | 143274 | 98.33182 |
| Tl 190.794 | 4942.97 | ppb | 23.1902 | 0.5 | 5530.10 | 98.85931 |
| V 292.401 | 4780.92 | ppb | 14.5858 | 0.3 | 124576 | 95.61839 |
| Zn 206.200 | 2459.63 | ppb | 8.5214 | 0.3 | 2686.87 | 98.38525 |

**Cont Calib Blank (CCB)** **10/17/2014, 10:07:52 PM** **Rack 2, Tube 50**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0956u | -0.0935u | 0.0032 |
| Al 308.215 | -9.0013u | -8.2294u | -7.3268u |
| As 188.980 | -0.8850u | 1.0067 | -2.1005u |
| B 249.678 | 9.8859 | 8.5419 | 7.8072 |
| Ba 389.178 | 0.5599 | 0.9084 | 1.3502 |
| Be 313.042 | 0.0125 | 0.0183 | 0.0392 |
| Ca 370.602 | 6.548 | 5.395 | 2.615 |
| Cd 226.502 | 0.2406 | 0.2706 | 0.0829 |
| Co 228.615 | 0.1963 | 0.3843 | 0.2124 |
| Cr 267.716 | 0.7188 | 0.5818 | 0.7607 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 0.7612 | 0.5238 | 1.0108 |
| Fe 271.441 | -0.9703u | 8.1580 | 3.0307 |
| K 766.491 | 1.7723 | 1.6240 | 1.6249 |
| Mg 279.078 | 2.6949 | 2.8300 | 1.2178 |
| Mn 257.610 | 0.6677 | 0.6846 | 0.8916 |
| Mo 202.032 | 0.7387 | 0.6253 | 1.1975 |
| Na 330.237 | 139.715 | 76.0327 | 94.5799 |
| Ni 231.604 | -0.7427u | 0.3108 | -0.0657u |
| Pb 220.353 | 0.5891 | -1.1893u | 3.6146 |
| Sb 206.834 | 4.2331 | 4.4691 | 3.0815 |
| Se 196.026 | 2.7065 | -2.1202u | -7.0622u |
| Sn 189.925 | 5.5222 | -2.4621u | 1.2551 |
| Sr 216.596 | 0.3856 | 0.4966 | 0.5558 |
| Ti 334.941 | 0.0853 | 0.0983 | 0.0911 |
| Tl 190.794 | 1.9954 | 1.6234 | 1.8095 |
| V 292.401 | 0.6939 | 0.5661 | 0.4200 |
| Zn 206.200 | 1.9121 | 1.6988 | 0.5900 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | -0.0620 | ppb | 0.0565 | 91.1 | -12.1287 | -0.06198 |
| Al 308.215 | -8.1859 | ppb | 0.8381 | 10.2 | 548.453 | -8.18586 |
| As 188.980 | -0.6596 | ppb | 1.5658 | 237.4 | -5.6697 | -0.65959 |
| B 249.678 | 8.7450 | ppb | 1.0541 | 12.1 | 187.867 | 8.74498 |
| Ba 389.178 | 0.9395 | ppb | 0.3960 | 42.2 | -60.3686 | 0.93950 |
| Be 313.042 | 0.0233 | ppb | 0.0140 | 60.2 | -197.792 | 0.02333 |
| Ca 370.602 | 4.853 | ppb | 2.022 | 41.7 | 34.44 | 4.85275 |
| Cd 226.502 | 0.1980 | ppb | 0.1008 | 50.9 | 17.8782 | 0.19803 |
| Co 228.615 | 0.2643 | ppb | 0.1042 | 39.4 | 9.9074 | 0.26434 |
| Cr 267.716 | 0.6871 | ppb | 0.0935 | 13.6 | 72.2121 | 0.68711 |
| Cu 324.754 | 0.7653 | ppb | 0.2436 | 31.8 | 299.913 | 0.76529 |
| Fe 271.441 | 3.4061 | ppb | 4.5757 | 134.3 | 21.4447 | 3.40612 |
| K 766.491 | 1.6737 | ppb | 0.0853 | 5.1 | 318.099 | 1.67373 |
| Mg 279.078 | 2.2476 | ppb | 0.8944 | 39.8 | 29.6014 | 2.24757 |
| Mn 257.610 | 0.7480 | ppb | 0.1247 | 16.7 | 183.389 | 0.74799 |
| Mo 202.032 | 0.8539 | ppb | 0.3030 | 35.5 | 12.2377 | 0.85387 |
| Na 330.237 | 103.442 | ppb | 32.7530 | 31.7 | 30.4021 | 103.44245 |
| Ni 231.604 | -0.1659 | ppb | 0.5338 | 321.8 | -6.1540 | -0.16587 |
| Pb 220.353 | 1.0048 | ppb | 2.4288 | 241.7 | 11.0709 | 1.00480 |
| Sb 206.834 | 3.9279 | ppb | 0.7425 | 18.9 | -0.0511 | 3.92790 |
| Se 196.026 | -2.1586 | ppb | 4.8845 | 226.3 | -0.2479 | -2.15864 |
| Sn 189.925 | 1.4384 | ppb | 3.9953 | 277.8 | -4.6590 | 1.43842 |
| Sr 216.596 | 0.4793 | ppb | 0.0864 | 18.0 | 12.3007 | 0.47934 |
| Ti 334.941 | 0.0915 | ppb | 0.0065 | 7.1 | -5.0042 | 0.09153 |
| Tl 190.794 | 1.8095 | ppb | 0.1860 | 10.3 | -5.6652 | 1.80946 |
| V 292.401 | 0.5600 | ppb | 0.1370 | 24.5 | 3.1365 | 0.56001 |
| Zn 206.200 | 1.4003 | ppb | 0.7098 | 50.7 | 1.7783 | 1.40030 |

**mb 680-353950/1-a (Samp)** **10/17/2014, 10:12:09 PM** **Rack 2, Tube 51**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1444u | -0.1283u | -0.1029u |
| Al 308.215 | -7.9395u | -7.9378u | -8.2174u |
| As 188.980 | -5.5905u | 0.6707 | -6.4719u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 3.7723 | 3.6163 | 3.8393 |
| Ba 389.178 | -0.2405u | 0.5958 | -0.3780u |
| Be 313.042 | -0.0273u | -0.0296u | -0.0203u |
| Ca 370.602 | 7.845 | 3.343 | 6.123 |
| Cd 226.502 | 0.1066 | 0.1504 | 0.2988 |
| Co 228.615 | 0.2081 | 0.2085 | -0.0514u |
| Cr 267.716 | 0.2663 | 0.0871 | 0.1352 |
| Cu 324.754 | 0.0451 | 0.1169 | 0.2276 |
| Fe 271.441 | 0.8451 | 3.0228 | 0.2722 |
| K 766.491 | 3.3524 | 3.2902 | 3.6441 |
| Mg 279.078 | 2.8416 | 0.5038 | 1.6762 |
| Mn 257.610 | 0.1359 | 0.1339 | 0.1740 |
| Mo 202.032 | 0.0821 | 1.0620 | 0.4092 |
| Na 330.237 | 241.782 | 110.731 | 208.365 |
| Ni 231.604 | -0.0116u | 0.8239 | -0.0728u |
| Pb 220.353 | 0.5201 | 0.5249 | 2.2035 |
| Sb 206.834 | 3.7121 | 2.5641 | 4.5499 |
| Se 196.026 | 3.4112 | 3.8497 | -5.0012u |
| Sn 189.925 | 1.2428 | -2.3654u | -0.8330u |
| Sr 216.596 | 0.1539 | -0.3434u | -0.0150u |
| Ti 334.941 | 0.0127 | 0.0250 | 0.0346 |
| Tl 190.794 | 1.9415 | -3.4299u | 0.8687 |
| V 292.401 | -0.2843u | -0.1241u | -0.1572u |
| Zn 206.200 | 2.9168 | 3.5834 | 3.4859 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1252 | ppb | 0.0209 | 16.7 | -17.5257 |
| Al 308.215 | -8.0316 | ppb | 0.1609 | 2.0 | 549.401 |
| As 188.980 | -3.7972 | ppb | 3.8943 | 102.6 | -7.7812 |
| B 249.678 | 3.7426 | ppb | 0.1144 | 3.1 | 104.265 |
| Ba 389.178 | -0.0076 | ppb | 0.5270 | 6964.3 | -80.7599 |
| Be 313.042 | -0.0257 | ppb | 0.0049 | 19.0 | -286.552 |
| Ca 370.602 | 5.770 | ppb | 2.271 | 39.4 | 37.08 |
| Cd 226.502 | 0.1852 | ppb | 0.1008 | 54.4 | 17.3294 |
| Co 228.615 | 0.1217 | ppb | 0.1499 | 123.1 | 8.2384 |
| Cr 267.716 | 0.1628 | ppb | 0.0927 | 57.0 | 43.3489 |
| Cu 324.754 | 0.1299 | ppb | 0.0919 | 70.8 | 252.817 |
| Fe 271.441 | 1.3800 | ppb | 1.4512 | 105.2 | 18.2435 |
| K 766.491 | 3.4289 | ppb | 0.1889 | 5.5 | 396.715 |
| Mg 279.078 | 1.6739 | ppb | 1.1689 | 69.8 | 28.0513 |
| Mn 257.610 | 0.1479 | ppb | 0.0226 | 15.3 | 65.3639 |
| Mo 202.032 | 0.5178 | ppb | 0.4989 | 96.4 | 9.9379 |
| Na 330.237 | 186.959 | ppb | 68.0973 | 36.4 | 34.0994 |
| Ni 231.604 | 0.2465 | ppb | 0.5010 | 203.2 | -4.8645 |
| Pb 220.353 | 1.0828 | ppb | 0.9705 | 89.6 | 11.1936 |
| Sb 206.834 | 3.6087 | ppb | 0.9970 | 27.6 | -0.5080 |
| Se 196.026 | 0.7532 | ppb | 4.9883 | 662.2 | 1.1225 |
| Sn 189.925 | -0.6519 | ppb | 1.8109 | 277.8 | -6.2425 |
| Sr 216.596 | -0.0682 | ppb | 0.2529 | 370.9 | 5.5343 |
| Ti 334.941 | 0.0241 | ppb | 0.0110 | 45.5 | -24.6646 |
| Tl 190.794 | -0.2066 | ppb | 2.8426 | 1375.8 | -7.9198 |
| V 292.401 | -0.1886 | ppb | 0.0846 | 44.9 | -16.3431 |
| Zn 206.200 | 3.3287 | ppb | 0.3600 | 10.8 | 3.8992 |

**lcs 680-353950/2-a (Samp)** **10/17/2014, 10:16:25 PM** **Rack 2, Tube 52**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 49.2119 | 49.1318 | 49.4697 |
| Al 308.215 | 4704.78 | 4724.56 | 4739.95 |
| As 188.980 | 89.6227 | 94.2319 | 94.4206 |
| B 249.678 | 189.123 | 190.474 | 192.420 |
| Ba 389.178 | 98.2523 | 97.4800 | 98.1870 |
| Be 313.042 | 49.0796 | 49.1714 | 49.3694 |
| Ca 370.602 | 4529 | 4540 | 4598 |
| Cd 226.502 | 50.0679 | 50.0610 | 50.2626 |
| Co 228.615 | 48.0253 | 48.0934 | 48.8545 |
| Cr 267.716 | 96.6025 | 96.9498 | 97.7518 |
| Cu 324.754 | 96.3244 | 96.5463 | 97.4181 |
| Fe 271.441 | 4849.19 | 4856.15 | 4878.67 |
| K 766.491 | 4813.75 | 4813.42 | 4832.05 |
| Mg 279.078 | 4670.02 | 4685.16 | 4706.39 |
| Mn 257.610 | 475.876 | 478.665 | 482.981 |
| Mo 202.032 | 94.6720 | 95.5965 | 95.5018 |
| Na 330.237 | 4820.75 | 4868.99 | 4897.94 |
| Ni 231.604 | 96.0425 | 97.3392 | 97.5003 |
| Pb 220.353 | 488.309 | 494.532 | 490.314 |
| Sb 206.834 | 47.5974 | 47.3487 | 50.8225 |
| Se 196.026 | 96.0606 | 89.7703 | 98.8947 |
| Sn 189.925 | 189.884 | 187.853 | 188.082 |
| Sr 216.596 | 95.9964 | 96.9351 | 96.9685 |
| Ti 334.941 | 97.2581 | 97.4267 | 97.7077 |
| Tl 190.794 | 38.5169 | 33.5545 | 38.4814 |
| V 292.401 | 93.4218 | 93.5586 | 94.1100 |
| Zn 206.200 | 97.9879 | 101.275 | 100.963 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 49.2711 | ppb | 0.1765 | 0.4 | 4196.49 |
| Al 308.215 | 4723.09 | ppb | 17.6292 | 0.4 | 32288.4 |
| As 188.980 | 92.7584 | ppb | 2.7172 | 2.9 | 57.1930 |
| B 249.678 | 190.672 | ppb | 1.6576 | 0.9 | 3217.57 |
| Ba 389.178 | 97.9731 | ppb | 0.4283 | 0.4 | 2038.06 |
| Be 313.042 | 49.2068 | ppb | 0.1481 | 0.3 | 88793.9 |
| Ca 370.602 | 4556 | ppb | 36.86 | 0.8 | 13232 |
| Cd 226.502 | 50.1305 | ppb | 0.1144 | 0.2 | 2141.32 |
| Co 228.615 | 48.3244 | ppb | 0.4603 | 1.0 | 574.584 |
| Cr 267.716 | 97.1014 | ppb | 0.5894 | 0.6 | 5384.05 |
| Cu 324.754 | 96.7629 | ppb | 0.5781 | 0.6 | 7418.87 |
| Fe 271.441 | 4861.34 | ppb | 15.4097 | 0.3 | 7682.08 |
| K 766.491 | 4819.74 | ppb | 10.6586 | 0.2 | 216127 |
| Mg 279.078 | 4687.19 | ppb | 18.2728 | 0.4 | 12779.3 |
| Mn 257.610 | 479.174 | ppb | 3.5793 | 0.7 | 94327.1 |
| Mo 202.032 | 95.2568 | ppb | 0.5087 | 0.5 | 658.075 |
| Na 330.237 | 4862.56 | ppb | 38.9933 | 0.8 | 240.328 |
| Ni 231.604 | 96.9607 | ppb | 0.7992 | 0.8 | 297.911 |
| Pb 220.353 | 491.051 | ppb | 3.1766 | 0.6 | 783.961 |
| Sb 206.834 | 48.5895 | ppb | 1.9378 | 4.0 | 63.4057 |
| Se 196.026 | 94.9085 | ppb | 4.6700 | 4.9 | 45.6031 |
| Sn 189.925 | 188.606 | ppb | 1.1124 | 0.6 | 137.124 |
| Sr 216.596 | 96.6333 | ppb | 0.5519 | 0.6 | 1206.20 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 97.4642 | ppb | 0.2271 | 0.2 | 28383.6 |
| Tl 190.794 | 36.8509 | ppb | 2.8548 | 7.7 | 33.0886 |
| V 292.401 | 93.6968 | ppb | 0.3643 | 0.4 | 2419.26 |
| Zn 206.200 | 100.075 | ppb | 1.8146 | 1.8 | 109.668 |

**640-49411-a-3-a (Samp)** **10/17/2014, 10:20:42 PM** **Rack 2, Tube 53**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0138u | 0.1658u | 0.1936u |
| Al 308.215 | 152.631 | 154.022 | 150.726 |
| As 188.980 | -0.2795u | -2.1553u | 5.2078 |
| B 249.678 | 4435.15 | 4438.54 | 4431.97 |
| Ba 389.178 | 20.1104 | 20.5702 | 20.6887 |
| Be 313.042 | 0.6919u | 0.6942u | 0.7003u |
| Ca 370.602 | 314133 | 312708 | 311306 |
| Cd 226.502 | 2.0149 | 1.6064 | 1.7363 |
| Co 228.615 | -1.7323u | -1.3468u | -1.2845u |
| Cr 267.716 | -4.7515u | -4.7487u | -4.5409 |
| Cu 324.754 | 3.6636 | 3.3633 | 3.3184 |
| Fe 271.441 | 153.012 | 154.409 | 148.644 |
| K 766.491 | 525604x | 527441x | 528732x |
| Mg 279.078 | 1002134 | 1005993 | 1000542 |
| Mn 257.610 | -25.9194 | -25.8165 | -25.9807 |
| Mo 202.032 | 6.7535 | 6.6412 | 5.0571 |
| Na 330.237 | 13476261x | 13496438x | 13570537x |
| Ni 231.604 | 1.4804 | 1.2520 | 3.2710 |
| Pb 220.353 | -1.4328u | -4.4206u | 0.1812 |
| Sb 206.834 | 7.0707 | 5.4969 | 2.2029 |
| Se 196.026 | 22.1510 | 22.9167 | 29.3554 |
| Sn 189.925 | -3.5252 | -9.5456u | -6.6774u |
| Sr 216.596 | 6157.77 | 6167.70 | 6113.55 |
| Ti 334.941 | -1.2310 | -1.2113 | -1.2824 |
| Tl 190.794 | -9.0125u | -6.7580u | -6.4934u |
| V 292.401 | 5.1171 | 5.9658 | 6.6478 |
| Zn 206.200 | 8.6213 | 9.9032 | 10.9227 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.1244b | ppb | 0.0968 | 77.8 | -234.958 |
| Al 308.215 | 152.460b | ppb | 1.6546 | 1.1 | 1626.36 |
| As 188.980 | 0.9243b | ppb | 3.8263 | 414.0 | -4.6048 |
| B 249.678 | 4435.22b | ppb | 3.2886 | 0.1 | 74163.5 |
| Ba 389.178 | 20.4564b | ppb | 0.3055 | 1.5 | 1729.33 |
| Be 313.042 | 0.6955b | ppb | 0.0044 | 0.6 | -351.799 |
| Ca 370.602 | 312715b | ppb | 1414 | 0.5 | 907018 |
| Cd 226.502 | 1.7858b | ppb | 0.2087 | 11.7 | 19.2021 |
| Co 228.615 | -1.4545b | ppb | 0.2426 | 16.7 | -10.0416 |
| Cr 267.716 | -4.6804b | ppb | 0.1208 | 2.6 | 38.0759 |
| Cu 324.754 | 3.4484b | ppb | 0.1877 | 5.4 | 499.032 |
| Fe 271.441 | 152.022b | ppb | 3.0070 | 2.0 | 255.416 |
| K 766.491 | 527259xb | ppb | 1572.30 | 0.3 | 23616966 |
| Mg 279.078 | 1002890b | ppb | 2802.55 | 0.3 | 2731927 |
| Mn 257.610 | -25.9056b | ppb | 0.0830 | 0.3 | 1949.43 |
| Mo 202.032 | 6.1506b | ppb | 0.9487 | 15.4 | 48.4801 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 13514412xb | ppb | 49641.6 | 0.4 | 606320 |
| Ni 231.604 | 2.0011b | ppb | 1.1057 | 55.3 | 0.6447 |
| Pb 220.353 | -1.8907b | ppb | 2.3348 | 123.5 | 6.5098 |
| Sb 206.834 | 4.9235b | ppb | 2.4840 | 50.5 | 1.2646 |
| Se 196.026 | 24.8077b | ppb | 3.9569 | 16.0 | 12.4487 |
| Sn 189.925 | -6.5827b | ppb | 3.0113 | 45.7 | -6.5940 |
| Sr 216.596 | 6146.34b | ppb | 28.8296 | 0.5 | 76204.5 |
| Ti 334.941 | -1.2416b | ppb | 0.0367 | 3.0 | 363.223 |
| Tl 190.794 | -7.4213b | ppb | 1.3843 | 18.7 | -16.0307 |
| V 292.401 | 5.9102b | ppb | 0.7669 | 13.0 | 57.3459 |
| Zn 206.200 | 9.8157b | ppb | 1.1532 | 11.7 | 11.0183 |

**640-49411-a-5-a (Samp)** **10/17/2014, 10:24:58 PM** **Rack 2, Tube 54**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.2049u | 0.3588u | 0.4277u |
| Al 308.215 | 153.159 | 155.280 | 153.072 |
| As 188.980 | -6.2971u | -1.0780u | -11.9783u |
| B 249.678 | 4445.50 | 4460.05 | 4444.21 |
| Ba 389.178 | 21.9109 | 21.5937 | 20.6314 |
| Be 313.042 | 0.6895u | 0.6842u | 0.6916u |
| Ca 370.602 | 311138 | 306573 | 312307 |
| Cd 226.502 | 1.8021 | 1.7298 | 1.6212 |
| Co 228.615 | -1.4517u | -1.1819u | -1.2057u |
| Cr 267.716 | -4.7644u | -4.6896 | -4.5983 |
| Cu 324.754 | 3.8758 | 4.0519 | 3.6258 |
| Fe 271.441 | 175.932 | 169.790 | 178.136 |
| K 766.491 | 527873x | 526438x | 523953x |
| Mg 279.078 | 1006763 | 1007632 | 1011444 |
| Mn 257.610 | -26.0178 | -25.9909 | -25.8885 |
| Mo 202.032 | 6.6952 | 6.5072 | 6.4029 |
| Na 330.237 | 13595228x | 13587394x | 13431812x |
| Ni 231.604 | 3.9317 | 2.9038 | 2.8106 |
| Pb 220.353 | -1.0078u | -2.7357u | 3.8335 |
| Sb 206.834 | 10.5990 | 4.4847 | 5.4407 |
| Se 196.026 | 15.5209 | 19.4365 | 22.7587 |
| Sn 189.925 | -8.9251u | -8.1236u | -7.2866u |
| Sr 216.596 | 6149.49 | 6171.80 | 6228.46 |
| Ti 334.941 | -1.2293 | -1.1648 | -1.0047 |
| Tl 190.794 | -8.5904u | -4.2947u | -9.7608u |
| V 292.401 | 6.2270 | 5.5260 | 6.3905 |
| Zn 206.200 | 4.7897 | 7.8846 | 13.3060 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.3305b | ppb | 0.1141 | 34.5 | -220.156 |
| Al 308.215 | 153.837b | ppb | 1.2503 | 0.8 | 1635.66 |
| As 188.980 | -6.4511b | ppb | 5.4518 | 84.5 | -9.5689 |
| B 249.678 | 4449.92b | ppb | 8.7984 | 0.2 | 74409.1 |
| Ba 389.178 | 21.3787b | ppb | 0.6663 | 3.1 | 1757.69 |
| Be 313.042 | 0.6885b | ppb | 0.0038 | 0.6 | -362.876 |
| Ca 370.602 | 310006b | ppb | 3030 | 1.0 | 899160 |
| Cd 226.502 | 1.7177b | ppb | 0.0911 | 5.3 | 16.6460 |
| Co 228.615 | -1.2798b | ppb | 0.1494 | 11.7 | -7.9857 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | -4.6841b | ppb | 0.0832 | 1.8 | 37.4831 |
| Cu 324.754 | 3.8512b | ppb | 0.2142 | 5.6 | 528.892 |
| Fe 271.441 | 174.619b | ppb | 4.3250 | 2.5 | 291.015 |
| K 766.491 | 526088xb | ppb | 1983.47 | 0.4 | 23564526 |
| Mg 279.078 | 1008613b | ppb | 2489.98 | 0.2 | 2747516 |
| Mn 257.610 | -25.9657b | ppb | 0.0682 | 0.3 | 1981.57 |
| Mo 202.032 | 6.5351b | ppb | 0.1481 | 2.3 | 51.1106 |
| Na 330.237 | 13538146xb | ppb | 92170.1 | 0.7 | 607385 |
| Ni 231.604 | 3.2154b | ppb | 0.6221 | 19.3 | 4.4448 |
| Pb 220.353 | 0.0300b | ppb | 3.4054 | 11348.5 | 9.5399 |
| Sb 206.834 | 6.8415b | ppb | 3.2890 | 48.1 | 4.0026 |
| Se 196.026 | 19.2387b | ppb | 3.6230 | 18.8 | 9.8278 |
| Sn 189.925 | -8.1118b | ppb | 0.8193 | 10.1 | -7.7587 |
| Sr 216.596 | 6183.25b | ppb | 40.7140 | 0.7 | 76660.8 |
| Ti 334.941 | -1.1329b | ppb | 0.1156 | 10.2 | 407.613 |
| Tl 190.794 | -7.5486b | ppb | 2.8781 | 38.1 | -16.1769 |
| V 292.401 | 6.0478b | ppb | 0.4592 | 7.6 | 61.1596 |
| Zn 206.200 | 8.6601b | ppb | 4.3108 | 49.8 | 9.7471 |

**640-49411-a-4-a (Samp)** **10/17/2014, 10:29:15 PM** **Rack 2, Tube 55**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1039u | 0.0800u | 0.2623u |
| Al 308.215 | 167.294 | 167.262 | 152.785 |
| As 188.980 | 6.2012 | -3.0398u | -0.8313u |
| B 249.678 | 4304.37 | 4337.70 | 4475.59 |
| Ba 389.178 | 18.0919 | 19.6503 | 24.1789 |
| Be 313.042 | 0.6608u | 0.6529u | 0.6606u |
| Ca 370.602 | 302934 | 306142 | 340235 |
| Cd 226.502 | 1.5734 | 1.5022 | 1.5877 |
| Co 228.615 | -1.1542u | -0.9991u | -0.9300u |
| Cr 267.716 | -4.6286u | -4.9365u | -4.3079 |
| Cu 324.754 | 3.3006 | 3.6522 | 2.5987 |
| Fe 271.441 | 177.708 | 172.986 | 202.039 |
| K 766.491 | 512634x | 514985x | 483762x |
| Mg 279.078 | 971096 | 981715 | 1092094x |
| Mn 257.610 | -24.9603 | -24.8738 | -23.8065 |
| Mo 202.032 | 6.2383 | 6.4447 | 8.0529 |
| Na 330.237 | 13087445x | 13145352x | 12439598x |
| Ni 231.604 | 1.2044 | 2.7466 | 2.6728 |
| Pb 220.353 | 3.0117 | 2.9399 | -3.5829u |
| Sb 206.834 | 9.7745 | 2.0791 | 3.9253 |
| Se 196.026 | 9.9286 | 21.7828 | 22.1887 |
| Sn 189.925 | -8.4514u | -4.9307 | -9.6466u |
| Sr 216.596 | 5977.83 | 6044.22 | 7113.05x |
| Ti 334.941 | -1.1763 | -1.1358 | -0.9391 |
| Tl 190.794 | -10.1450u | -9.0927u | -7.9971u |
| V 292.401 | 6.0565 | 6.1209 | 6.1397 |
| Zn 206.200 | 5.0819 | 10.4678 | 11.4496 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.1488b | ppb | 0.0991 | 66.6 | -241.999 |
| Al 308.215 | 162.447b | ppb | 8.3678 | 5.2 | 1693.39 |

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| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 0.7767b | ppb | 4.8258 | 621.3 | -4.7044 |
| B 249.678 | 4372.55b | ppb | 90.7769 | 2.1 | 73116.0 |
| Ba 389.178 | 20.6404b | ppb | 3.1619 | 15.3 | 1749.83 |
| Be 313.042 | 0.6581b | ppb | 0.0045 | 0.7 | -348.906 |
| Ca 370.602 | 316437b | ppb | 20672 | 6.5 | 917812 |
| Cd 226.502 | 1.5545b | ppb | 0.0458 | 2.9 | 13.6540 |
| Co 228.615 | -1.0278b | ppb | 0.1148 | 11.2 | -5.0487 |
| Cr 267.716 | -4.6243b | ppb | 0.3143 | 6.8 | 28.4611 |
| Cu 324.754 | 3.1838b | ppb | 0.5364 | 16.8 | 479.457 |
| Fe 271.441 | 184.244b | ppb | 15.5901 | 8.5 | 306.185 |
| K 766.491 | 503794xb | ppb | 17387.7 | 3.5 | 22565920 |
| Mg 279.078 | 1014968xb | ppb | 67003.7 | 6.6 | 2764829 |
| Mn 257.610 | -24.5468b | ppb | 0.6427 | 2.6 | 2304.89 |
| Mo 202.032 | 6.9120b | ppb | 0.9934 | 14.4 | 53.6904 |
| Na 330.237 | 12890798xb | ppb | 391822 | 3.0 | 578343 |
| Ni 231.604 | 2.2079b | ppb | 0.8699 | 39.4 | 1.2937 |
| Pb 220.353 | 0.7896b | ppb | 3.7868 | 479.6 | 10.7367 |
| Sb 206.834 | 5.2596b | ppb | 4.0175 | 76.4 | 1.7339 |
| Se 196.026 | 17.9667b | ppb | 6.9642 | 38.8 | 9.2295 |
| Sn 189.925 | -7.6762b | ppb | 2.4517 | 31.9 | -7.6241 |
| Sr 216.596 | 6378.37xb | ppb | 637.119 | 10.0 | 79076.8 |
| Ti 334.941 | -1.0837b | ppb | 0.1269 | 11.7 | 481.414 |
| Tl 190.794 | -9.0782b | ppb | 1.0740 | 11.8 | -17.8880 |
| V 292.401 | 6.1057b | ppb | 0.0436 | 0.7 | 67.2279 |
| Zn 206.200 | 8.9997b | ppb | 3.4283 | 38.1 | 10.1211 |

**640-49416-a-1-a (Samp)** **10/17/2014, 10:33:31 PM** **Rack 2, Tube 56**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1694u | -0.2081u | -0.0160u |
| Al 308.215 | 3.4431 | 2.3943 | 4.5486 |
| As 188.980 | -0.9994u | -3.3467u | -0.3007u |
| B 249.678 | 72.9753 | 68.8028 | 65.5558 |
| Ba 389.178 | 25.0555 | 24.2602 | 24.9204 |
| Be 313.042 | 0.0125 | 0.0116 | 0.0109 |
| Ca 370.602 | 44346 | 44167 | 44458 |
| Cd 226.502 | 0.2033 | 0.1162 | 0.1934 |
| Co 228.615 | -0.5352u | -0.2845u | -0.2310u |
| Cr 267.716 | 0.3535 | 0.2574 | 0.3210 |
| Cu 324.754 | 0.9224 | 0.6757 | 0.8435 |
| Fe 271.441 | 470.977 | 475.822 | 466.272 |
| K 766.491 | 961.711 | 964.098 | 960.998 |
| Mg 279.078 | 2170.81 | 2173.35 | 2187.01 |
| Mn 257.610 | 1186.07 | 1180.47 | 1189.66 |
| Mo 202.032 | 0.9105 | -0.7344u | 0.1616 |
| Na 330.237 | 13359.4 | 13402.3 | 13587.8 |
| Ni 231.604 | 0.1552 | 0.2969 | -0.2813u |
| Pb 220.353 | 2.3110 | -0.5465u | 1.3954 |
| Sb 206.834 | 2.7776 | -1.2659u | 0.9264 |
| Se 196.026 | 0.2859 | 3.8908 | 1.1193 |
| Sn 189.925 | 1.1798 | -0.4312u | 2.1607 |
| Sr 216.596 | 277.414 | 276.887 | 277.740 |
| Ti 334.941 | 0.1840 | 0.1103 | 0.1474 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -0.6606u | -1.4265u | -0.2982 |
| V 292.401 | -0.0031u | -0.2095u | -0.0912u |
| Zn 206.200 | 9.1478 | 9.6201 | 8.7125 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1312 | ppb | 0.1016 | 77.4 | -21.7555 |
| Al 308.215 | 3.4620 | ppb | 1.0773 | 31.1 | 627.230 |
| As 188.980 | -1.5489 | ppb | 1.5956 | 103.0 | -6.2709 |
| B 249.678 | 69.1113 | ppb | 3.7193 | 5.4 | 1195.56 |
| Ba 389.178 | 24.7454 | ppb | 0.4255 | 1.7 | 455.294 |
| Be 313.042 | 0.0117 | ppb | 0.0008 | 7.2 | -204.359 |
| Ca 370.602 | 44324 | ppb | 146.9 | 0.3 | 128603 |
| Cd 226.502 | 0.1709 | ppb | 0.0477 | 27.9 | 18.4091 |
| Co 228.615 | -0.3502 | ppb | 0.1624 | 46.4 | 2.7387 |
| Cr 267.716 | 0.3106 | ppb | 0.0489 | 15.7 | 58.1746 |
| Cu 324.754 | 0.8139 | ppb | 0.1260 | 15.5 | 303.696 |
| Fe 271.441 | 471.023 | ppb | 4.7750 | 1.0 | 758.134 |
| K 766.491 | 962.269 | ppb | 1.6238 | 0.2 | 43344.6 |
| Mg 279.078 | 2177.06 | ppb | 8.7135 | 0.4 | 5927.95 |
| Mn 257.610 | 1185.40 | ppb | 4.6349 | 0.4 | 233200 |
| Mo 202.032 | 0.1126 | ppb | 0.8235 | 731.6 | 7.1422 |
| Na 330.237 | 13449.9 | ppb | 121.407 | 0.9 | 628.878 |
| Ni 231.604 | 0.0569 | ppb | 0.3014 | 529.5 | -5.4163 |
| Pb 220.353 | 1.0533 | ppb | 1.4591 | 138.5 | 11.4355 |
| Sb 206.834 | 0.8127 | ppb | 2.0241 | 249.1 | -4.4745 |
| Se 196.026 | 1.7653 | ppb | 1.8873 | 106.9 | 1.8976 |
| Sn 189.925 | 0.9698 | ppb | 1.3087 | 134.9 | -5.0099 |
| Sr 216.596 | 277.347 | ppb | 0.4304 | 0.2 | 3458.00 |
| Ti 334.941 | 0.1472 | ppb | 0.0369 | 25.0 | 14.1286 |
| Tl 190.794 | -0.7951 | ppb | 0.5760 | 72.5 | -7.9896 |
| V 292.401 | -0.1013 | ppb | 0.1036 | 102.3 | -13.9085 |
| Zn 206.200 | 9.1601 | ppb | 0.4539 | 5.0 | 10.2843 |

**640-49416-a-2-a (Samp)** **10/17/2014, 10:37:48 PM** **Rack 2, Tube 57**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -1.1941u | -1.3690u | -1.1302u |
| Al 308.215 | 45012.4 | 44952.3 | 44915.2 |
| As 188.980 | 18.4993 | 21.6214 | 14.7804 |
| B 249.678 | 904.846 | 906.948 | 908.474 |
| Ba 389.178 | 240.821 | 241.513 | 241.668 |
| Be 313.042 | 2.5656 | 2.5576 | 2.5660 |
| Ca 370.602 | 27145 | 27033 | 27098 |
| Cd 226.502 | -0.1272 | -0.0595 | -0.1310 |
| Co 228.615 | 1.0587 | 1.4430 | 1.2944 |
| Cr 267.716 | 110.235 | 110.140 | 110.580 |
| Cu 324.754 | 7.0021 | 7.0786 | 6.9592 |
| Fe 271.441 | 12927.6 | 12912.1 | 12907.0 |
| K 766.491 | 95308.8x | 95415.4x | 95253.9x |
| Mg 279.078 | 5992.77 | 5984.10 | 5982.96 |
| Mn 257.610 | 168.440 | 168.579 | 168.524 |
| Mo 202.032 | 8.6193 | 8.1730 | 8.0308 |
| Na 330.237 | 15126.6 | 14908.5 | 15155.2 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 16.1179 | 16.3444 | 16.7518 |
| Pb 220.353 | 26.3845 | 27.9617 | 26.3353 |
| Sb 206.834 | -0.0149 | -0.8153 | 1.8362 |
| Se 196.026 | 7.8612 | 7.6251 | 7.4317 |
| Sn 189.925 | 4.4930 | -1.0619u | 4.2786 |
| Sr 216.596 | 1237.60 | 1235.04 | 1235.63 |
| Ti 334.941 | 213.931 | 212.467 | 212.286 |
| Tl 190.794 | -0.0620u | 0.2203u | 2.1286 |
| V 292.401 | 65.3563 | 65.0846 | 65.5927 |
| Zn 206.200 | 38.7483 | 38.2721 | 37.5957 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -1.2311b | ppb | 0.1236 | 10.0 | -157.277 |
| Al 308.215 | 44960.0b | ppb | 49.0917 | 0.1 | 302029 |
| As 188.980 | 18.3004b | ppb | 3.4248 | 18.7 | 7.4853 |
| B 249.678 | 906.756b | ppb | 1.8216 | 0.2 | 15165.6 |
| Ba 389.178 | 241.334b | ppb | 0.4507 | 0.2 | 5129.70 |
| Be 313.042 | 2.5631b | ppb | 0.0047 | 0.2 | 4407.80 |
| Ca 370.602 | 27092b | ppb | 56.54 | 0.2 | 78542 |
| Cd 226.502 | -0.1059b | ppb | 0.0402 | 38.0 | 52.7797 |
| Co 228.615 | 1.2654b | ppb | 0.1938 | 15.3 | 27.3801 |
| Cr 267.716 | 110.318b | ppb | 0.2315 | 0.2 | 6115.79 |
| Cu 324.754 | 7.0133b | ppb | 0.0605 | 0.9 | 767.902 |
| Fe 271.441 | 12915.6b | ppb | 10.7404 | 0.1 | 20365.5 |
| K 766.491 | 95326.0xb | ppb | 82.1222 | 0.1 | 4270038 |
| Mg 279.078 | 5986.61b | ppb | 5.3645 | 0.1 | 16310.2 |
| Mn 257.610 | 168.514b | ppb | 0.0702 | 0.0 | 33257.4 |
| Mo 202.032 | 8.2744b | ppb | 0.3071 | 3.7 | 62.3463 |
| Na 330.237 | 15063.4b | ppb | 134.955 | 0.9 | 697.467 |
| Ni 231.604 | 16.4047b | ppb | 0.3212 | 2.0 | 46.7996 |
| Pb 220.353 | 26.8938b | ppb | 0.9251 | 3.4 | 52.1237 |
| Sb 206.834 | 0.3354b | ppb | 1.3600 | 405.6 | -3.6015 |
| Se 196.026 | 7.6393b | ppb | 0.2151 | 2.8 | 4.5250 |
| Sn 189.925 | 2.5699b | ppb | 3.1471 | 122.5 | -3.7974 |
| Sr 216.596 | 1236.09b | ppb | 1.3418 | 0.1 | 15330.9 |
| Ti 334.941 | 212.895b | ppb | 0.9018 | 0.4 | 62031.0 |
| Tl 190.794 | 0.7623b | ppb | 1.1916 | 156.3 | -8.4285 |
| V 292.401 | 65.3445b | ppb | 0.2542 | 0.4 | 1696.78 |
| Zn 206.200 | 38.2054b | ppb | 0.5792 | 1.5 | 41.2650 |

**640-49432-n-1-a (Samp)** **10/17/2014, 10:42:05 PM** **Rack 2, Tube 58**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1096u | -0.1527u | 0.0286u |
| Al 308.215 | 66.4854 | 67.9533 | 65.5214 |
| As 188.980 | -3.0988u | 2.5760 | 0.0871u |
| B 249.678 | 2560.76 | 2573.92 | 2573.91 |
| Ba 389.178 | 645.685 | 643.634 | 643.010 |
| Be 313.042 | 0.0745u | 0.0697u | 0.0775u |
| Ca 370.602 | 147857 | 147841 | 148013 |
| Cd 226.502 | 0.1320 | 0.1149 | 0.1915 |
| Co 228.615 | 0.7611 | 0.9837 | 0.3059 |
| Cr 267.716 | -0.6163 | -0.4578 | -0.6963 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 1.1298 | 1.2259 | 1.2195 |
| Fe 271.441 | 10278.0 | 10265.1 | 10253.7 |
| K 766.491 | 122425x | 122173x | 121463x |
| Mg 279.078 | 238892 | 239223 | 237954 |
| Mn 257.610 | 439.593 | 439.984 | 440.145 |
| Mo 202.032 | -0.5016u | 0.0796 | -0.7717u |
| Na 330.237 | 2793623x | 2809222x | 2795157x |
| Ni 231.604 | 4.4702 | 2.7747 | 5.6215 |
| Pb 220.353 | 3.6293 | 2.0409 | -0.3910 |
| Sb 206.834 | 1.1521 | 1.0303 | 3.1960 |
| Se 196.026 | 12.0268 | 6.4214 | 12.7630 |
| Sn 189.925 | -6.3866u | -1.9688u | -0.0582 |
| Sr 216.596 | 1613.33 | 1610.23 | 1610.01 |
| Ti 334.941 | 0.6365 | 0.6768 | 0.7045 |
| Tl 190.794 | -2.6320u | -6.3539u | -4.1114u |
| V 292.401 | 0.8703 | 1.4783 | 1.3011 |
| Zn 206.200 | 9.9701 | 8.9765 | 11.0308 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0779b | ppb | 0.0947 | 121.6 | -75.4728 |
| Al 308.215 | 66.6534b | ppb | 1.2246 | 1.8 | 1067.53 |
| As 188.980 | -0.1452b | ppb | 2.8446 | 1958.8 | -5.3904 |
| B 249.678 | 2569.53b | ppb | 7.5962 | 0.3 | 42959.7 |
| Ba 389.178 | 644.109b | ppb | 1.3997 | 0.2 | 14116.5 |
| Be 313.042 | 0.0739b | ppb | 0.0039 | 5.3 | -362.007 |
| Ca 370.602 | 147904b | ppb | 95.00 | 0.1 | 428888 |
| Cd 226.502 | 0.1461b | ppb | 0.0402 | 27.5 | 40.3666 |
| Co 228.615 | 0.6836b | ppb | 0.3455 | 50.5 | 15.7001 |
| Cr 267.716 | -0.5901b | ppb | 0.1214 | 20.6 | 63.4624 |
| Cu 324.754 | 1.1917b | ppb | 0.0537 | 4.5 | 335.959 |
| Fe 271.441 | 10265.6b | ppb | 12.1802 | 0.1 | 16189.5 |
| K 766.491 | 122020xb | ppb | 498.727 | 0.4 | 5465718 |
| Mg 279.078 | 238690b | ppb | 657.994 | 0.3 | 650212 |
| Mn 257.610 | 439.908b | ppb | 0.2837 | 0.1 | 88257.6 |
| Mo 202.032 | -0.3979b | ppb | 0.4350 | 109.3 | 3.1836 |
| Na 330.237 | 2799334xb | ppb | 8597.62 | 0.3 | 125609 |
| Ni 231.604 | 4.2888b | ppb | 1.4320 | 33.4 | 8.6637 |
| Pb 220.353 | 1.7598b | ppb | 2.0248 | 115.1 | 13.0440 |
| Sb 206.834 | 1.7928b | ppb | 1.2168 | 67.9 | -2.7490 |
| Se 196.026 | 10.4037b | ppb | 3.4684 | 33.3 | 5.8711 |
| Sn 189.925 | -2.8045b | ppb | 3.2459 | 115.7 | -7.0136 |
| Sr 216.596 | 1611.19b | ppb | 1.8545 | 0.1 | 20021.1 |
| Ti 334.941 | 0.6726b | ppb | 0.0342 | 5.1 | 377.553 |
| Tl 190.794 | -4.3658b | ppb | 1.8740 | 42.9 | -13.7343 |
| V 292.401 | 1.2166b | ppb | 0.3127 | 25.7 | 6.9823 |
| Zn 206.200 | 9.9924b | ppb | 1.0273 | 10.3 | 10.7416 |

**640-49432-n-3-a (Samp)** **10/17/2014, 10:46:22 PM** **Rack 2, Tube 59**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1198u | -0.1960u | -0.2921u |
| Al 308.215 | 4.0399 | 5.6024 | 2.5989 |
| As 188.980 | 6.0548 | 6.0917 | 8.3854 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 202.958 | 199.557 | 197.407 |
| Ba 389.178 | 380.639 | 379.737 | 379.385 |
| Be 313.042 | -0.0549u | -0.0431u | -0.0556u |
| Ca 370.602 | 73701 | 73767 | 73274 |
| Cd 226.502 | -0.1554 | -0.1315 | -0.0680 |
| Co 228.615 | 0.0381 | -0.2277u | -0.1349u |
| Cr 267.716 | 0.7181 | 0.5677 | 0.5504 |
| Cu 324.754 | 0.9877 | 1.1726 | 0.9188 |
| Fe 271.441 | 6724.51 | 6714.44 | 6696.83 |
| K 766.491 | 10690.1 | 10699.2 | 10698.6 |
| Mg 279.078 | 27404.2 | 27371.7 | 27306.0 |
| Mn 257.610 | 453.504 | 454.087 | 451.091 |
| Mo 202.032 | -0.3216u | 0.1744 | -0.5194u |
| Na 330.237 | 128273x | 127487x | 128138x |
| Ni 231.604 | 1.8364 | 3.3273 | 1.9992 |
| Pb 220.353 | -0.5695u | 2.0880 | 1.4384 |
| Sb 206.834 | -0.0282 | 2.4481 | 1.1790 |
| Se 196.026 | 0.1430 | -0.6722u | -6.0813u |
| Sn 189.925 | 2.3189 | -0.0627u | 1.2551 |
| Sr 216.596 | 508.783 | 508.587 | 507.282 |
| Ti 334.941 | 0.9073 | 0.8846 | 0.9191 |
| Tl 190.794 | 1.2005 | 0.8947 | 2.5956 |
| V 292.401 | -0.0553 | -0.1365u | -0.0780u |
| Zn 206.200 | 6.6158 | 6.2030 | 6.1736 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.2026b | ppb | 0.0864 | 42.6 | -41.7845 |
| Al 308.215 | 4.0804b | ppb | 1.5021 | 36.8 | 641.951 |
| As 188.980 | 6.8440b | ppb | 1.3351 | 19.5 | -0.6636 |
| B 249.678 | 199.974b | ppb | 2.7992 | 1.4 | 3368.06 |
| Ba 389.178 | 379.920b | ppb | 0.6470 | 0.2 | 8138.78 |
| Be 313.042 | -0.0512b | ppb | 0.0071 | 13.8 | -321.053 |
| Ca 370.602 | 73581b | ppb | 267.5 | 0.4 | 213365 |
| Cd 226.502 | -0.1183b | ppb | 0.0452 | 38.2 | 28.9815 |
| Co 228.615 | -0.1082b | ppb | 0.1349 | 124.7 | 6.0552 |
| Cr 267.716 | 0.6121b | ppb | 0.0922 | 15.1 | 76.2202 |
| Cu 324.754 | 1.0264b | ppb | 0.1312 | 12.8 | 322.159 |
| Fe 271.441 | 6711.93b | ppb | 14.0118 | 0.2 | 10590.7 |
| K 766.491 | 10696.0b | ppb | 5.0728 | 0.0 | 479332 |
| Mg 279.078 | 27360.6b | ppb | 49.9885 | 0.2 | 74544.9 |
| Mn 257.610 | 452.894b | ppb | 1.5882 | 0.4 | 89323.7 |
| Mo 202.032 | -0.2222b | ppb | 0.3574 | 160.8 | 4.5554 |
| Na 330.237 | 127966xb | ppb | 419.869 | 0.3 | 5765.09 |
| Ni 231.604 | 2.3876b | ppb | 0.8178 | 34.3 | 2.4117 |
| Pb 220.353 | 0.9856b | ppb | 1.3854 | 140.6 | 11.5878 |
| Sb 206.834 | 1.1997b | ppb | 1.2383 | 103.2 | -3.7083 |
| Se 196.026 | -2.2035b | ppb | 3.3829 | 153.5 | -0.0945 |
| Sn 189.925 | 1.1704b | ppb | 1.1930 | 101.9 | -4.8224 |
| Sr 216.596 | 508.217b | ppb | 0.8158 | 0.2 | 6334.96 |
| Ti 334.941 | 0.9037b | ppb | 0.0176 | 1.9 | 271.603 |
| Tl 190.794 | 1.5636b | ppb | 0.9067 | 58.0 | -6.6127 |
| V 292.401 | -0.0900b | ppb | 0.0419 | 46.6 | -11.8278 |
| Zn 206.200 | 6.3308b | ppb | 0.2473 | 3.9 | 6.8835 |

**640-49432-n-4-a (Samp)** **10/17/2014, 10:50:39 PM** **Rack 2, Tube 60**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1421u | -0.0666u | 0.1522u |
| Al 308.215 | 0.3440 | 0.2248 | -1.4966 |
| As 188.980 | 8.4319 | 7.6109 | 11.3563 |
| B 249.678 | 474.152 | 475.705 | 475.977 |
| Ba 389.178 | 703.184 | 704.427 | 704.380 |
| Be 313.042 | -0.0359u | -0.0286u | -0.0318u |
| Ca 370.602 | 81283 | 81691 | 82352 |
| Cd 226.502 | -0.4545 | -0.4875 | -0.4176 |
| Co 228.615 | 2.4025 | 2.3903 | 2.6210 |
| Cr 267.716 | 0.0834 | 0.0204 | -0.0462 |
| Cu 324.754 | 0.5965 | 0.6361 | 0.3876 |
| Fe 271.441 | 22049.3 | 22108.3 | 22149.0 |
| K 766.491 | 20134.3 | 19849.4 | 19749.5 |
| Mg 279.078 | 42933.1 | 43097.6 | 43172.5 |
| Mn 257.610 | 378.569 | 379.874 | 382.385 |
| Mo 202.032 | -0.0680u | -0.0787u | -0.3208u |
| Na 330.237 | 483155x | 482098x | 481882x |
| Ni 231.604 | 1.6662 | 1.7043 | 3.0291 |
| Pb 220.353 | 3.1246 | -0.6268 | 2.3827 |
| Sb 206.834 | -0.1455 | 0.8871 | -2.2312u |
| Se 196.026 | 6.2555 | -2.1043u | 6.7158 |
| Sn 189.925 | 0.8406 | 0.7051 | 1.8894 |
| Sr 216.596 | 610.914 | 619.842 | 620.262 |
| Ti 334.941 | 0.6584 | 0.7205 | 0.6789 |
| Tl 190.794 | -6.9001u | -2.9538u | -4.8596u |
| V 292.401 | -0.1810 | -0.1759 | -0.1618 |
| Zn 206.200 | 4.8902 | 8.1460 | 8.9324 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0188b | ppb | 0.1528 | 812.6 | -33.3732 |
| Al 308.215 | -0.3093b | ppb | 1.0300 | 333.0 | 638.600 |
| As 188.980 | 9.1331b | ppb | 1.9687 | 21.6 | 0.7749 |
| B 249.678 | 475.278b | ppb | 0.9849 | 0.2 | 7933.17 |
| Ba 389.178 | 703.997b | ppb | 0.7045 | 0.1 | 15144.7 |
| Be 313.042 | -0.0321b | ppb | 0.0036 | 11.4 | -322.789 |
| Ca 370.602 | 81775b | ppb | 539.2 | 0.7 | 236941 |
| Cd 226.502 | -0.4532b | ppb | 0.0350 | 7.7 | 69.8651 |
| Co 228.615 | 2.4713b | ppb | 0.1298 | 5.3 | 37.4393 |
| Cr 267.716 | 0.0192b | ppb | 0.0648 | 337.0 | 57.6230 |
| Cu 324.754 | 0.5401b | ppb | 0.1335 | 24.7 | 292.857 |
| Fe 271.441 | 22102.2b | ppb | 50.1395 | 0.2 | 34838.4 |
| K 766.491 | 19911.1b | ppb | 199.683 | 1.0 | 892090 |
| Mg 279.078 | 43067.7b | ppb | 122.482 | 0.3 | 117333 |
| Mn 257.610 | 380.276b | ppb | 1.9391 | 0.5 | 75192.0 |
| Mo 202.032 | -0.1559b | ppb | 0.1430 | 91.7 | 4.2821 |
| Na 330.237 | 482378xb | ppb | 681.598 | 0.1 | 21661.6 |
| Ni 231.604 | 2.1332b | ppb | 0.7761 | 36.4 | 2.9368 |
| Pb 220.353 | 1.6269b | ppb | 1.9866 | 122.1 | 13.6106 |
| Sb 206.834 | -0.4965b | ppb | 1.5885 | 319.9 | -5.6373 |
| Se 196.026 | 3.6224b | ppb | 4.9648 | 137.1 | 2.7727 |
| Sn 189.925 | 1.1450b | ppb | 0.6482 | 56.6 | -4.7320 |
| Sr 216.596 | 617.006b | ppb | 5.2798 | 0.9 | 7703.54 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 0.6859b | ppb | 0.0316 | 4.6 | 210.590 |
| Tl 190.794 | -4.9045b | ppb | 1.9735 | 40.2 | -15.9955 |
| V 292.401 | -0.1729b | ppb | 0.0099 | 5.7 | -10.8206 |
| Zn 206.200 | 7.3229b | ppb | 2.1431 | 29.3 | 7.2579 |

**Cont Calib Verif (CCV)** **10/17/2014, 10:54:56 PM** **Rack 3, Tube 1**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 496.691 | 497.753 | 493.560 |
| Al 308.215 | 4875.15 | 4879.21 | 4874.54 |
| As 188.980 | 472.060 | 461.336 | 461.276 |
| B 249.678 | 500.302 | 501.928 | 502.356 |
| Ba 389.178 | 5016.40 | 5027.66 | 5013.80 |
| Be 313.042 | 493.792 | 495.870 | 494.825 |
| Ca 370.602 | 4686 | 4699 | 4668 |
| Cd 226.502 | 508.833 | 510.288 | 508.723 |
| Co 228.615 | 490.667 | 491.561 | 489.584 |
| Cr 267.716 | 4923.56 | 4930.78 | 4908.05 |
| Cu 324.754 | 5031.11 | 4961.54 | 4999.65 |
| Fe 271.441 | 4900.56 | 4918.64 | 4895.43 |
| K 766.491 | 10148.5 | 10140.4 | 10160.2 |
| Mg 279.078 | 4882.61 | 4880.50 | 4868.29 |
| Mn 257.610 | 4814.37 | 4811.82 | 4770.03 |
| Mo 202.032 | 486.631 | 492.492 | 491.788 |
| Na 330.237 | 7886.38 | 7901.44 | 7837.67 |
| Ni 231.604 | 2518.25 | 2515.67 | 2525.43 |
| Pb 220.353 | 507.636 | 509.401 | 507.873 |
| Sb 206.834 | 954.982 | 944.497 | 951.456 |
| Se 196.026 | 4856.31 | 4879.08 | 4879.82 |
| Sn 189.925 | 4927.27 | 4905.04 | 4931.21 |
| Sr 216.596 | 2491.81 | 2496.25 | 2493.19 |
| Ti 334.941 | 493.719 | 494.984 | 494.285 |
| Tl 190.794 | 4955.90 | 4977.20 | 4935.07 |
| V 292.401 | 4768.98 | 4775.24 | 4756.46 |
| Zn 206.200 | 2456.55 | 2455.33 | 2445.81 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 496.001 | ppb | 2.1799 | 0.4 | 42270.4 | 99.20027 |
| Al 308.215 | 4876.30 | ppb | 2.5394 | 0.1 | 33816.8 | 97.52602 |
| As 188.980 | 464.891 | ppb | 6.2089 | 1.3 | 307.530 | 92.97810 |
| B 249.678 | 501.529 | ppb | 1.0834 | 0.2 | 8426.04 | 100.30574 |
| Ba 389.178 | 5019.29 | ppb | 7.3680 | 0.1 | 107989 | 100.38573 |
| Be 313.042 | 494.829 | ppb | 1.0389 | 0.2 | 895370 | 98.96582 |
| Ca 370.602 | 4684 | ppb | 15.81 | 0.3 | 13945 | 93.68799 |
| Cd 226.502 | 509.281 | ppb | 0.8736 | 0.2 | 21502.0 | 101.85625 |
| Co 228.615 | 490.604 | ppb | 0.9901 | 0.2 | 5778.08 | 98.12082 |
| Cr 267.716 | 4920.80 | ppb | 11.6121 | 0.2 | 270924 | 98.41592 |
| Cu 324.754 | 4997.43 | ppb | 34.8389 | 0.7 | 370548 | 99.94867 |
| Fe 271.441 | 4904.88 | ppb | 12.1898 | 0.2 | 7854.69 | 98.09750 |
| K 766.491 | 10149.7 | ppb | 9.9320 | 0.1 | 454863 | 101.49700 |
| Mg 279.078 | 4877.14 | ppb | 7.7309 | 0.2 | 13202.5 | 97.54272 |
| Mn 257.610 | 4798.74 | ppb | 24.8966 | 0.5 | 943908 | 95.97478 |
| Mo 202.032 | 490.304 | ppb | 3.2002 | 0.7 | 3356.79 | 98.06073 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Na 330.237 | 7875.16 | ppb | 33.3319 | 0.4 | 319.707 | 105.00217 |
| Ni 231.604 | 2519.78 | ppb | 5.0591 | 0.2 | 7874.20 | 100.79131 |
| Pb 220.353 | 508.303 | ppb | 0.9579 | 0.2 | 815.268 | 101.66060 |
| Sb 206.834 | 950.311 | ppb | 5.3355 | 0.6 | 1402.40 | 95.03114 |
| Se 196.026 | 4871.74 | ppb | 13.3639 | 0.3 | 2295.04 | 97.43475 |
| Sn 189.925 | 4921.18 | ppb | 14.1104 | 0.3 | 3722.09 | 98.42355 |
| Sr 216.596 | 2493.75 | ppb | 2.2749 | 0.1 | 30800.5 | 99.75000 |
| Ti 334.941 | 494.330 | ppb | 0.6335 | 0.1 | 144052 | 98.86591 |
| Tl 190.794 | 4956.06 | ppb | 21.0676 | 0.4 | 5544.77 | 99.12112 |
| V 292.401 | 4766.89 | ppb | 9.5648 | 0.2 | 124209 | 95.33789 |
| Zn 206.200 | 2452.56 | ppb | 5.8787 | 0.2 | 2679.04 | 98.10258 |

**Cont Calib Blank (CCB)** **10/17/2014, 10:59:13 PM** **Rack 3, Tube 2**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates | Concentration | |
|---|---|---|---|
| Ag 328.068 | -0.2303u | -0.0294u | 0.2085 |
| Al 308.215 | -7.3791u | -6.8689u | -6.9920u |
| As 188.980 | 0.4157 | -3.3962u | -0.5680u |
| B 249.678 | 15.1686 | 13.7473 | 12.2410 |
| Ba 389.178 | 0.7720 | 1.6275 | 1.4599 |
| Be 313.042 | 0.0239 | 0.0081 | 0.0234 |
| Ca 370.602 | 8.811 | 8.943 | 5.081 |
| Cd 226.502 | 0.3298 | 0.3258 | 0.2079 |
| Co 228.615 | -0.0775u | 0.2746 | -0.2771u |
| Cr 267.716 | 0.7190 | 0.5964 | 0.6549 |
| Cu 324.754 | 1.1262 | 1.2863 | 0.5891 |
| Fe 271.441 | 3.6256 | 1.1691 | -0.3154u |
| K 766.491 | 4.1495 | 3.5745 | 3.1769 |
| Mg 279.078 | 6.2236 | 3.8299 | 3.1044 |
| Mn 257.610 | 0.7596 | 0.6950 | 0.7547 |
| Mo 202.032 | 1.2991 | 0.8326 | 0.9930 |
| Na 330.237 | 253.634 | 20.9911 | 141.884 |
| Ni 231.604 | -0.4577u | -0.0262u | 1.3755 |
| Pb 220.353 | -1.0772u | 0.4015 | 1.4919 |
| Sb 206.834 | 4.1428 | 7.0187 | 4.0861 |
| Se 196.026 | 1.6953 | 0.9914 | 2.2271 |
| Sn 189.925 | -0.0596u | 1.9213 | 1.8483 |
| Sr 216.596 | 0.4634 | 0.6037 | 0.1726 |
| Ti 334.941 | 0.0434 | 0.0839 | 0.1320 |
| Tl 190.794 | 2.2116 | 3.6481 | 3.4973 |
| V 292.401 | 0.6409 | 0.7378 | 0.6186 |
| Zn 206.200 | 1.2056 | 2.1057 | 1.6853 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | -0.0171 | ppb | 0.2197 | 1287.6 | -8.3043 | -0.01706 |
| Al 308.215 | -7.0800 | ppb | 0.2663 | 3.8 | 555.875 | -7.07999 |
| As 188.980 | -1.1828 | ppb | 1.9789 | 167.3 | -6.0218 | -1.18284 |
| B 249.678 | 13.7190 | ppb | 1.4640 | 10.7 | 270.993 | 13.71900 |
| Ba 389.178 | 1.2865 | ppb | 0.4534 | 35.2 | -52.8969 | 1.28648 |
| Be 313.042 | 0.0185 | ppb | 0.0090 | 48.5 | -206.574 | 0.01849 |
| Ca 370.602 | 7.612 | ppb | 2.193 | 28.8 | 42.47 | 7.61200 |
| Cd 226.502 | 0.2878 | ppb | 0.0693 | 24.1 | 21.6560 | 0.28783 |
| Co 228.615 | -0.0266 | ppb | 0.2794 | 1048.8 | 6.4826 | -0.02664 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Cr 267.716 | 0.6568 | ppb | 0.0613 | 9.3 | 70.5402 | 0.65678 |
| Cu 324.754 | 1.0005 | ppb | 0.3652 | 36.5 | 317.350 | 1.00051 |
| Fe 271.441 | 1.4931 | ppb | 1.9904 | 133.3 | 18.4151 | 1.49308 |
| K 766.491 | 3.6336 | ppb | 0.4890 | 13.5 | 405.886 | 3.63363 |
| Mg 279.078 | 4.3860 | ppb | 1.6322 | 37.2 | 35.4249 | 4.38596 |
| Mn 257.610 | 0.7364 | ppb | 0.0360 | 4.9 | 181.128 | 0.73645 |
| Mo 202.032 | 1.0415 | ppb | 0.2370 | 22.8 | 13.5222 | 1.04152 |
| Na 330.237 | 138.836 | ppb | 116.351 | 83.8 | 31.9993 | 138.83632 |
| Ni 231.604 | 0.2972 | ppb | 0.9584 | 322.5 | -4.7057 | 0.29719 |
| Pb 220.353 | 0.2721 | ppb | 1.2894 | 473.9 | 9.9152 | 0.27209 |
| Sb 206.834 | 5.0825 | ppb | 1.6770 | 33.0 | 1.5938 | 5.08253 |
| Se 196.026 | 1.6379 | ppb | 0.6198 | 37.8 | 1.5390 | 1.63793 |
| Sn 189.925 | 1.2367 | ppb | 1.1232 | 90.8 | -4.8119 | 1.23666 |
| Sr 216.596 | 0.4132 | ppb | 0.2199 | 53.2 | 11.4665 | 0.41322 |
| Ti 334.941 | 0.0864 | ppb | 0.0444 | 51.3 | -6.4977 | 0.08640 |
| Tl 190.794 | 3.1190 | ppb | 0.7895 | 25.3 | -4.2013 | 3.11902 |
| V 292.401 | 0.6658 | ppb | 0.0634 | 9.5 | 5.8744 | 0.66577 |
| Zn 206.200 | 1.6655 | ppb | 0.4504 | 27.0 | 2.0701 | 1.66554 |

**640-49453-p-1-a (Samp)** **10/17/2014, 11:03:31 PM** **Rack 3, Tube 3**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.3432u | -0.1962u | -0.3012u |
| Al 308.215 | 12.4365 | 15.4698 | 15.8555 |
| As 188.980 | 35.7894 | 34.8050 | 37.3203 |
| B 249.678 | 398.963 | 398.239 | 400.532 |
| Ba 389.178 | 794.490 | 792.800 | 793.824 |
| Be 313.042 | -0.0406u | -0.0472u | -0.0464u |
| Ca 370.602 | 130667 | 130033 | 129961 |
| Cd 226.502 | -0.3040 | -0.4160 | -0.2987 |
| Co 228.615 | -0.1923u | -0.7466u | -0.6887u |
| Cr 267.716 | 0.3059 | -0.0223 | -0.1226 |
| Cu 324.754 | 0.3407 | 0.2645 | 0.4689 |
| Fe 271.441 | 16719.7 | 16662.1 | 16660.5 |
| K 766.491 | 24607.2 | 24576.7 | 24660.0 |
| Mg 279.078 | 58612.1 | 58374.1 | 58425.3 |
| Mn 257.610 | 411.344 | 409.749 | 408.806 |
| Mo 202.032 | 0.5905 | 0.0170u | -0.3307u |
| Na 330.237 | 372013x | 372018x | 372021x |
| Ni 231.604 | 3.2302 | 2.1306 | 2.5640 |
| Pb 220.353 | 1.6941 | -1.5938u | 0.7433 |
| Sb 206.834 | 0.3111 | 3.5005 | 1.1488 |
| Se 196.026 | 8.4098 | 6.1107 | 6.9802 |
| Sn 189.925 | 2.2481 | 0.9904 | -2.4831u |
| Sr 216.596 | 932.731 | 928.180 | 927.396 |
| Ti 334.941 | 0.3318 | 0.4001 | 0.3306 |
| Tl 190.794 | -2.5435u | 1.5937u | -3.4554u |
| V 292.401 | -0.5852u | -0.6514u | -0.2876u |
| Zn 206.200 | 6.5530 | 4.8882 | 5.6347 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.2802b | ppb | 0.0757 | 27.0 | -65.9829 |
| Al 308.215 | 14.5873b | ppb | 1.8726 | 12.8 | 729.238 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 35.9716b | ppb | 1.2675 | 3.5 | 18.8741 |
| B 249.678 | 399.245b | ppb | 1.1723 | 0.3 | 6675.22 |
| Ba 389.178 | 793.705b | ppb | 0.8513 | 0.1 | 17093.7 |
| Be 313.042 | -0.0447b | ppb | 0.0036 | 8.1 | -317.554 |
| Ca 370.602 | 130220b | ppb | 388.3 | 0.3 | 377518 |
| Cd 226.502 | -0.3396b | ppb | 0.0663 | 19.5 | 55.3409 |
| Co 228.615 | -0.5425b | ppb | 0.3047 | 56.2 | 1.6334 |
| Cr 267.716 | 0.0537b | ppb | 0.2241 | 417.6 | 54.8629 |
| Cu 324.754 | 0.3580b | ppb | 0.1033 | 28.8 | 276.985 |
| Fe 271.441 | 16680.8b | ppb | 33.7381 | 0.2 | 26296.6 |
| K 766.491 | 24614.6b | ppb | 42.1489 | 0.2 | 1102770 |
| Mg 279.078 | 58470.5b | ppb | 125.267 | 0.2 | 159290 |
| Mn 257.610 | 409.966b | ppb | 1.2827 | 0.3 | 81125.4 |
| Mo 202.032 | 0.0922b | ppb | 0.4652 | 504.3 | 6.2384 |
| Na 330.237 | 372017xb | ppb | 4.1934 | 0.0 | 16711.7 |
| Ni 231.604 | 2.6416b | ppb | 0.5539 | 21.0 | 4.0633 |
| Pb 220.353 | 0.2812b | ppb | 1.6919 | 601.7 | 11.1301 |
| Sb 206.834 | 1.6534b | ppb | 1.6535 | 100.0 | -2.7495 |
| Se 196.026 | 7.1669b | ppb | 1.1608 | 16.2 | 4.3967 |
| Sn 189.925 | 0.2518b | ppb | 2.4506 | 973.2 | -5.4424 |
| Sr 216.596 | 929.436b | ppb | 2.8803 | 0.3 | 11583.0 |
| Ti 334.941 | 0.3541b | ppb | 0.0398 | 11.2 | 149.030 |
| Tl 190.794 | -1.4684b | ppb | 2.6908 | 183.2 | -11.3975 |
| V 292.401 | -0.5081b | ppb | 0.1938 | 38.1 | -20.6146 |
| Zn 206.200 | 5.6920b | ppb | 0.8339 | 14.7 | 5.7203 |

**640-49453-p-3-a (Samp)** **10/17/2014, 11:07:48 PM** **Rack 3, Tube 4**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1186u | 0.1678u | -0.0555u |
| Al 308.215 | 15.8405 | 11.5902 | 12.1794 |
| As 188.980 | -1.9374u | -0.2816u | 0.6755 |
| B 249.678 | 2470.28 | 2484.85 | 2475.34 |
| Ba 389.178 | 589.142 | 588.432 | 581.822 |
| Be 313.042 | 0.0713u | 0.0760u | 0.0688u |
| Ca 370.602 | 130363 | 130675 | 130151 |
| Cd 226.502 | 0.2347 | 0.3894 | 0.2078 |
| Co 228.615 | 0.1683 | 0.4387 | 0.3299 |
| Cr 267.716 | -0.6583 | -0.7979 | -0.6967 |
| Cu 324.754 | 0.9812 | 1.0880 | 1.1489 |
| Fe 271.441 | 8331.00 | 8345.75 | 8269.08 |
| K 766.491 | 117609x | 117696x | 117067x |
| Mg 279.078 | 209820 | 210110 | 208528 |
| Mn 257.610 | 149.578 | 150.223 | 148.736 |
| Mo 202.032 | 0.4131 | 0.0858 | 0.1086 |
| Na 330.237 | 2749331x | 2770219x | 2722051x |
| Ni 231.604 | 2.9769 | 2.9288 | 2.2842 |
| Pb 220.353 | 0.3206 | -1.9056u | -0.8450u |
| Sb 206.834 | 5.2405 | -0.5815u | 6.2824 |
| Se 196.026 | 15.0232 | 15.5345 | 14.7893 |
| Sn 189.925 | 3.2899 | 2.5474 | -2.3039u |
| Sr 216.596 | 1553.02 | 1551.27 | 1541.55 |
| Ti 334.941 | -0.3940 | -0.4343 | -0.3933 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -2.8277u | -4.1691u | -4.7940u |
| V 292.401 | 0.5023u | 0.6378 | 0.2902u |
| Zn 206.200 | 8.8380 | 9.5406 | 7.7092 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0021b | ppb | 0.1505 | 7126.6 | -67.2478 |
| Al 308.215 | 13.2033b | ppb | 2.3027 | 17.4 | 705.919 |
| As 188.980 | -0.5145b | ppb | 1.3219 | 256.9 | -5.6267 |
| B 249.678 | 2476.82b | ppb | 7.3964 | 0.3 | 41415.0 |
| Ba 389.178 | 586.465b | ppb | 4.0368 | 0.7 | 12834.6 |
| Be 313.042 | 0.0720b | ppb | 0.0036 | 5.0 | -365.746 |
| Ca 370.602 | 130396b | ppb | 263.6 | 0.2 | 378124 |
| Cd 226.502 | 0.2773b | ppb | 0.0980 | 35.4 | 38.5084 |
| Co 228.615 | 0.3123b | ppb | 0.1360 | 43.6 | 11.1487 |
| Cr 267.716 | -0.7176b | ppb | 0.0721 | 10.0 | 53.0211 |
| Cu 324.754 | 1.0727b | ppb | 0.0849 | 7.9 | 326.305 |
| Fe 271.441 | 8315.28b | ppb | 40.6817 | 0.5 | 13116.8 |
| K 766.491 | 117457xb | ppb | 341.210 | 0.3 | 5261330 |
| Mg 279.078 | 209486b | ppb | 842.222 | 0.4 | 570667 |
| Mn 257.610 | 149.512b | ppb | 0.7457 | 0.5 | 30930.7 |
| Mo 202.032 | 0.2025b | ppb | 0.1827 | 90.3 | 7.3857 |
| Na 330.237 | 2747200xb | ppb | 24154.6 | 0.9 | 123271 |
| Ni 231.604 | 2.7300b | ppb | 0.3868 | 14.2 | 3.6199 |
| Pb 220.353 | -0.8100b | ppb | 1.1135 | 137.5 | 8.7987 |
| Sb 206.834 | 3.6471b | ppb | 3.6990 | 101.4 | -0.1772 |
| Se 196.026 | 15.1157b | ppb | 0.3811 | 2.5 | 7.9984 |
| Sn 189.925 | 1.1778b | ppb | 3.0380 | 257.9 | -4.0119 |
| Sr 216.596 | 1548.61b | ppb | 6.1779 | 0.4 | 19236.5 |
| Ti 334.941 | -0.4072b | ppb | 0.0234 | 5.8 | 13.9779 |
| Tl 190.794 | -3.9303b | ppb | 1.0047 | 25.6 | -13.1406 |
| V 292.401 | 0.4768b | ppb | 0.1752 | 36.7 | -13.1535 |
| Zn 206.200 | 8.6959b | ppb | 0.9239 | 10.6 | 9.4089 |

**640-49453-p-3-a (Samp)** **10/17/2014, 11:12:05 PM** **Rack 3, Tube 5**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1706u | -0.1763u | -0.2244u |
| Al 308.215 | -0.4819u | -1.4922u | 0.5105 |
| As 188.980 | -3.0678u | 1.0142 | -3.6098u |
| B 249.678 | 516.106 | 507.687 | 499.793 |
| Ba 389.178 | 123.613 | 122.125 | 120.454 |
| Be 313.042 | -0.0245u | -0.0239u | -0.0251u |
| Ca 370.602 | 27294 | 26842 | 26351 |
| Cd 226.502 | 0.2882 | 0.1889 | 0.2299 |
| Co 228.615 | 0.2360 | 0.0311 | -0.3841u |
| Cr 267.716 | -0.2021u | -0.0216 | -0.2405u |
| Cu 324.754 | 0.4402 | 0.2274 | 0.5737 |
| Fe 271.441 | 1808.81 | 1786.49 | 1763.48 |
| K 766.491 | 17301.2 | 17016.9 | 16831.5 |
| Mg 279.078 | 43307.1 | 42619.8 | 42031.4 |
| Mn 257.610 | 31.7468 | 31.6508 | 31.0612 |
| Mo 202.032 | 0.0330 | 0.1282 | 0.0886 |
| Na 330.237 | 488026x | 476058x | 474317x |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 0.5015 | 1.9479 | 1.2033 |
| Pb 220.353 | 2.1990 | 0.5638 | 1.6940 |
| Sb 206.834 | 6.5996 | 4.6226 | 2.1080 |
| Se 196.026 | 5.7927 | 13.5131 | 5.2699 |
| Sn 189.925 | 2.2859 | -0.1525 | 0.9390 |
| Sr 216.596 | 337.635 | 332.047 | 326.579 |
| Ti 334.941 | -0.2099u | -0.1453u | -0.1716u |
| Tl 190.794 | -2.1369u | -2.1414u | -0.2536u |
| V 292.401 | 0.1226 | 0.1987 | -0.0787u |
| Zn 206.200 | 2.7495 | 2.6416 | 3.9141 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1904b | ppb | 0.0296 | 15.5 | -35.9233 |
| Al 308.215 | -0.4879b | ppb | 1.0013 | 205.3 | 603.011 |
| As 188.980 | -1.8878b | ppb | 2.5278 | 133.9 | -6.5078 |
| B 249.678 | 507.862b | ppb | 8.1579 | 1.6 | 8524.94 |
| Ba 389.178 | 122.064b | ppb | 1.5800 | 1.3 | 2606.26 |
| Be 313.042 | -0.0245b | ppb | 0.0006 | 2.4 | -327.946 |
| Ca 370.602 | 26829b | ppb | 471.8 | 1.8 | 77813 |
| Cd 226.502 | 0.2357b | ppb | 0.0499 | 21.2 | 23.7725 |
| Co 228.615 | -0.0390b | ppb | 0.3159 | 809.7 | 6.4949 |
| Cr 267.716 | -0.1548b | ppb | 0.1169 | 75.5 | 36.2796 |
| Cu 324.754 | 0.4138b | ppb | 0.1746 | 42.2 | 274.616 |
| Fe 271.441 | 1786.26b | ppb | 22.6662 | 1.3 | 2830.28 |
| K 766.491 | 17049.9b | ppb | 236.587 | 1.4 | 763934 |
| Mg 279.078 | 42652.8b | ppb | 638.517 | 1.5 | 116210 |
| Mn 257.610 | 31.4863b | ppb | 0.3712 | 1.2 | 6532.69 |
| Mo 202.032 | 0.0833b | ppb | 0.0478 | 57.4 | 6.8793 |
| Na 330.237 | 479467xb | ppb | 7462.98 | 1.6 | 21535.6 |
| Ni 231.604 | 1.2176b | ppb | 0.7233 | 59.4 | -1.6724 |
| Pb 220.353 | 1.4856b | ppb | 0.8373 | 56.4 | 11.9555 |
| Sb 206.834 | 4.4434b | ppb | 2.2512 | 50.7 | 0.7474 |
| Se 196.026 | 8.1919b | ppb | 4.6157 | 56.3 | 4.6484 |
| Sn 189.925 | 1.0242b | ppb | 1.2214 | 119.3 | -4.8242 |
| Sr 216.596 | 332.087b | ppb | 5.5282 | 1.7 | 4129.60 |
| Ti 334.941 | -0.1756b | ppb | 0.0325 | 18.5 | -43.5213 |
| Tl 190.794 | -1.5106b | ppb | 1.0886 | 72.1 | -9.6050 |
| V 292.401 | 0.0809b | ppb | 0.1433 | 177.2 | -11.5551 |
| Zn 206.200 | 3.1017b | ppb | 0.7056 | 22.7 | 3.5670 |

**640-49453-p-3-aSD (Samp)** **10/17/2014, 11:16:23 PM** **Rack 3, Tube 6**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 112.239 | 111.908 | 112.095 |
| Al 308.215 | 1134.49 | 1126.96 | 1132.48 |
| As 188.980 | 108.789 | 101.076 | 107.166 |
| B 249.678 | 2621.59 | 2620.49 | 2633.23 |
| Ba 389.178 | 660.335 | 658.762 | 658.015 |
| Be 313.042 | 97.8084 | 97.3103 | 97.5500 |
| Ca 370.602 | 137383 | 137563 | 138419 |
| Cd 226.502 | 96.4379 | 95.9690 | 96.6570 |
| Co 228.615 | 92.4468 | 91.7466 | 92.8150 |
| Cr 267.716 | 94.9324 | 94.1826 | 95.0017 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 107.810 | 107.083 | 107.149 |
| Fe 271.441 | 17626.9 | 17547.5 | 17572.8 |
| K 766.491 | 128825x | 128034x | 127983x |
| Mg 279.078 | 216925 | 216570 | 217008 |
| Mn 257.610 | 1085.07 | 1084.23 | 1091.68 |
| Mo 202.032 | 94.6347 | 94.6208 | 94.4038 |
| Na 330.237 | 2739292x | 2718713x | 2721647x |
| Ni 231.604 | 96.1427 | 96.2144 | 97.3348 |
| Pb 220.353 | 95.3682 | 97.5413 | 95.9694 |
| Sb 206.834 | 108.054 | 106.133 | 108.380 |
| Se 196.026 | 109.673 | 120.693 | 112.215 |
| Sn 189.925 | 93.0305 | 94.6115 | 92.6188 |
| Sr 216.596 | 1641.87 | 1639.86 | 1642.08 |
| Ti 334.941 | 97.3425 | 96.9234 | 96.9645 |
| Tl 190.794 | 11.0001 | 13.7424 | 13.8533 |
| V 292.401 | 94.8058 | 94.4233 | 94.2953 |
| Zn 206.200 | 103.689 | 104.423 | 106.244 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 112.081b | ppb | 0.1659 | 0.1 | 9497.97 |
| Al 308.215 | 1131.31b | ppb | 3.9004 | 0.3 | 8231.69 |
| As 188.980 | 105.677b | ppb | 4.0662 | 3.8 | 65.7647 |
| B 249.678 | 2625.10b | ppb | 7.0608 | 0.3 | 43873.0 |
| Ba 389.178 | 659.037b | ppb | 1.1841 | 0.2 | 14413.1 |
| Be 313.042 | 97.5562b | ppb | 0.2491 | 0.3 | 176032 |
| Ca 370.602 | 137788b | ppb | 553.6 | 0.4 | 399521 |
| Cd 226.502 | 96.3547b | ppb | 0.3515 | 0.4 | 4124.31 |
| Co 228.615 | 92.3361b | ppb | 0.5427 | 0.6 | 1092.89 |
| Cr 267.716 | 94.7056b | ppb | 0.4542 | 0.5 | 5313.75 |
| Cu 324.754 | 107.348b | ppb | 0.4018 | 0.4 | 8208.83 |
| Fe 271.441 | 17582.4b | ppb | 40.5750 | 0.2 | 27729.6 |
| K 766.491 | 128281xb | ppb | 472.210 | 0.4 | 5746126 |
| Mg 279.078 | 216835b | ppb | 232.582 | 0.1 | 590663 |
| Mn 257.610 | 1086.99b | ppb | 4.0786 | 0.4 | 215396 |
| Mo 202.032 | 94.5531b | ppb | 0.1295 | 0.1 | 652.654 |
| Na 330.237 | 2726551xb | ppb | 11131.7 | 0.4 | 122340 |
| Ni 231.604 | 96.5640b | ppb | 0.6685 | 0.7 | 297.657 |
| Pb 220.353 | 96.2929b | ppb | 1.1221 | 1.2 | 162.575 |
| Sb 206.834 | 107.522b | ppb | 1.2139 | 1.1 | 147.997 |
| Se 196.026 | 114.194b | ppb | 5.7704 | 5.1 | 54.9521 |
| Sn 189.925 | 93.4203b | ppb | 1.0520 | 1.1 | 65.8550 |
| Sr 216.596 | 1641.27b | ppb | 1.2247 | 0.1 | 20394.2 |
| Ti 334.941 | 97.0768b | ppb | 0.2310 | 0.2 | 28443.3 |
| Tl 190.794 | 12.8653b | ppb | 1.6162 | 12.6 | 4.9943 |
| V 292.401 | 94.5082b | ppb | 0.2656 | 0.3 | 2428.23 |
| Zn 206.200 | 104.785b | ppb | 1.3153 | 1.3 | 114.252 |

**640-49453-p-3-b PDS (Samp)** **10/17/2014, 11:20:40 PM** **Rack 3, Tube 7**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 56.1898 | 56.3988 | 56.1809 |
| Al 308.215 | 5698.61 | 5704.88 | 5709.93 |
| As 188.980 | 110.344 | 104.695 | 108.724 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 2618.42 | 2622.63 | 2631.91 |
| Ba 389.178 | 688.537 | 686.496 | 689.082 |
| Be 313.042 | 50.3552 | 50.2749 | 50.4559 |
| Ca 370.602 | 134475 | 134217 | 134622 |
| Cd 226.502 | 49.2520 | 48.8848 | 49.2354 |
| Co 228.615 | 46.8487 | 46.2179 | 46.4007 |
| Cr 267.716 | 94.8269 | 94.8435 | 94.5770 |
| Cu 324.754 | 108.269 | 108.841 | 109.439 |
| Fe 271.441 | 12838.8 | 12824.8 | 12845.7 |
| K 766.491 | 120064x | 120857x | 120628x |
| Mg 279.078 | 208989 | 208190 | 208802 |
| Mn 257.610 | 619.676 | 619.209 | 620.688 |
| Mo 202.032 | 95.5039 | 94.5514 | 95.3056 |
| Na 330.237 | 2685902x | 2708083x | 2678690x |
| Ni 231.604 | 93.9974 | 94.5557 | 92.5608 |
| Pb 220.353 | 470.072 | 469.176 | 470.430 |
| Sb 206.834 | 54.2373 | 61.0180 | 59.3434 |
| Se 196.026 | 117.286 | 118.297 | 114.819 |
| Sn 189.925 | 187.874 | 184.853 | 179.873 |
| Sr 216.596 | 1653.05 | 1639.62 | 1646.15 |
| Ti 334.941 | 97.5328 | 97.5827 | 97.7950 |
| Tl 190.794 | 30.5828 | 26.5663 | 31.0669 |
| V 292.401 | 94.5176 | 95.1505 | 95.4154 |
| Zn 206.200 | 98.0776 | 102.690 | 103.373 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 56.2565b | ppb | 0.1233 | 0.2 | 4732.29 |
| Al 308.215 | 5704.47b | ppb | 5.6732 | 0.1 | 38881.0 |
| As 188.980 | 107.921b | ppb | 2.9088 | 2.7 | 67.3553 |
| B 249.678 | 2624.32b | ppb | 6.9051 | 0.3 | 43870.2 |
| Ba 389.178 | 688.038b | ppb | 1.3631 | 0.2 | 15023.5 |
| Be 313.042 | 50.3620b | ppb | 0.0907 | 0.2 | 90635.2 |
| Ca 370.602 | 134438b | ppb | 205.2 | 0.2 | 389849 |
| Cd 226.502 | 49.1241b | ppb | 0.2074 | 0.4 | 2115.27 |
| Co 228.615 | 46.4891b | ppb | 0.3246 | 0.7 | 553.667 |
| Cr 267.716 | 94.7491b | ppb | 0.1493 | 0.2 | 5311.33 |
| Cu 324.754 | 108.850b | ppb | 0.5851 | 0.5 | 8318.08 |
| Fe 271.441 | 12836.4b | ppb | 10.6288 | 0.1 | 20246.7 |
| K 766.491 | 120516xb | ppb | 408.370 | 0.3 | 5398344 |
| Mg 279.078 | 208660b | ppb | 417.933 | 0.2 | 568405 |
| Mn 257.610 | 619.858b | ppb | 0.7558 | 0.1 | 123448 |
| Mo 202.032 | 95.1203b | ppb | 0.5025 | 0.5 | 656.762 |
| Na 330.237 | 2690892xb | ppb | 15318.8 | 0.6 | 120741 |
| Ni 231.604 | 93.7047b | ppb | 1.0292 | 1.1 | 288.422 |
| Pb 220.353 | 469.893b | ppb | 0.6456 | 0.1 | 751.152 |
| Sb 206.834 | 58.1995b | ppb | 3.5321 | 6.1 | 77.3718 |
| Se 196.026 | 116.800b | ppb | 1.7892 | 1.5 | 56.0183 |
| Sn 189.925 | 184.200b | ppb | 4.0404 | 2.2 | 134.612 |
| Sr 216.596 | 1646.27b | ppb | 6.7176 | 0.4 | 20448.9 |
| Ti 334.941 | 97.6368b | ppb | 0.1393 | 0.1 | 28593.8 |
| Tl 190.794 | 29.4054b | ppb | 2.4705 | 8.4 | 23.7402 |
| V 292.401 | 95.0278b | ppb | 0.4613 | 0.5 | 2440.11 |
| Zn 206.200 | 101.380b | ppb | 2.8804 | 2.8 | 110.733 |

**640-49453-p-3-c msd (Samp)** **10/17/2014, 11:24:57 PM** **Rack 3, Tube 8**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0655u | -0.3125u | -0.3582u |
| Al 308.215 | 9.0211 | 10.6725 | 9.9582 |
| As 188.980 | -5.8816u | -5.5037u | -1.6036u |
| B 249.678 | 2416.51 | 2417.80 | 2409.64 |
| Ba 389.178 | 601.473 | 601.319 | 598.587 |
| Be 313.042 | 0.0697u | 0.0735u | 0.0695u |
| Ca 370.602 | 131631 | 131689 | 131892 |
| Cd 226.502 | 0.1675 | 0.3214 | 0.2500 |
| Co 228.615 | 0.0889 | 1.1848 | 0.5877 |
| Cr 267.716 | -0.6805 | -0.8573 | -0.9557 |
| Cu 324.754 | 0.8806 | 0.8718 | 0.8424 |
| Fe 271.441 | 8132.72 | 8097.04 | 8081.76 |
| K 766.491 | 111791x | 111316x | 110805x |
| Mg 279.078 | 203840 | 203369 | 202915 |
| Mn 257.610 | 153.432 | 153.568 | 153.869 |
| Mo 202.032 | 0.1042 | 0.6298 | 0.0742 |
| Na 330.237 | 2684323x | 2650781x | 2655480x |
| Ni 231.604 | 1.3743 | 3.0956 | 3.5027 |
| Pb 220.353 | 0.8060 | 0.1872 | 1.9977 |
| Sb 206.834 | 5.0694 | 3.1310 | 0.6895 |
| Se 196.026 | 0.5009 | 11.8541 | 3.7441 |
| Sn 189.925 | -1.1866u | -4.7056u | 2.4681 |
| Sr 216.596 | 1573.88 | 1569.83 | 1565.14 |
| Ti 334.941 | -0.3732 | -0.3085 | -0.3022 |
| Tl 190.794 | -2.2641u | -2.9465u | -5.1839u |
| V 292.401 | 1.0034 | 1.0457 | 0.6118 |
| Zn 206.200 | 8.8619 | 7.8124 | 6.3438 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.2454b | ppb | 0.1575 | 64.2 | -89.0187 |
| Al 308.215 | 9.8839b | ppb | 0.8282 | 8.4 | 683.360 |
| As 188.980 | -4.3296b | ppb | 2.3683 | 54.7 | -8.1931 |
| B 249.678 | 2414.65b | ppb | 4.3878 | 0.2 | 40376.4 |
| Ba 389.178 | 600.460b | ppb | 1.6236 | 0.3 | 13128.0 |
| Be 313.042 | 0.0709b | ppb | 0.0023 | 3.2 | -356.892 |
| Ca 370.602 | 131737b | ppb | 136.9 | 0.1 | 382016 |
| Cd 226.502 | 0.2463b | ppb | 0.0770 | 31.3 | 36.9343 |
| Co 228.615 | 0.6204b | ppb | 0.5487 | 88.4 | 14.7521 |
| Cr 267.716 | -0.8312b | ppb | 0.1394 | 16.8 | 44.9691 |
| Cu 324.754 | 0.8649b | ppb | 0.0200 | 2.3 | 310.825 |
| Fe 271.441 | 8103.84b | ppb | 26.1505 | 0.3 | 12783.7 |
| K 766.491 | 111304xb | ppb | 492.971 | 0.4 | 4985726 |
| Mg 279.078 | 203374b | ppb | 462.487 | 0.2 | 554018 |
| Mn 257.610 | 153.623b | ppb | 0.2232 | 0.1 | 31699.0 |
| Mo 202.032 | 0.2694b | ppb | 0.3125 | 116.0 | 7.8529 |
| Na 330.237 | 2663528xb | ppb | 18161.7 | 0.7 | 119517 |
| Ni 231.604 | 2.6575b | ppb | 1.1298 | 42.5 | 3.3759 |
| Pb 220.353 | 0.9970b | ppb | 0.9202 | 92.3 | 11.6354 |
| Sb 206.834 | 2.9633b | ppb | 2.1948 | 74.1 | -1.1643 |
| Se 196.026 | 5.3664b | ppb | 5.8479 | 109.0 | 3.4091 |
| Sn 189.925 | -1.1414b | ppb | 3.5871 | 314.3 | -5.7961 |
| Sr 216.596 | 1569.62b | ppb | 4.3714 | 0.3 | 19497.3 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | -0.3280b | ppb | 0.0393 | 12.0 | 33.7203 |
| Tl 190.794 | -3.4648b | ppb | 1.5274 | 44.1 | -12.5896 |
| V 292.401 | 0.8870b | ppb | 0.2392 | 27.0 | -1.9475 |
| Zn 206.200 | 7.6727b | ppb | 1.2649 | 16.5 | 8.2941 |

**640-49453-p-4-a (Samp)** **10/17/2014, 11:29:14 PM** **Rack 3, Tube 9**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 50.5510 | 50.5786 | 50.7717 |
| Al 308.215 | 37369.4 | 37352.3 | 37492.1 |
| As 188.980 | 208.796 | 218.767 | 204.421 |
| B 249.678 | 1743.11 | 1745.46 | 1753.23 |
| Ba 389.178 | 2187.77 | 2197.25 | 2207.49 |
| Be 313.042 | 47.0871 | 47.3587 | 47.6678 |
| Ca 370.602 | 278954 | 276452 | 279480 |
| Cd 226.502 | 44.7170 | 44.5968 | 45.0449 |
| Co 228.615 | 62.3272 | 62.5399 | 63.0683 |
| Cr 267.716 | 137.780 | 138.135 | 139.221 |
| Cu 324.754 | 156.934 | 157.003 | 156.894 |
| Fe 271.441 | 103599 | 104192 | 104600 |
| K 766.491 | 59223.2x | 58926.4x | 59221.7x |
| Mg 279.078 | 122566 | 122858 | 123366 |
| Mn 257.610 | 2827.99 | 2842.57 | 2850.30 |
| Mo 202.032 | 84.8258 | 84.5849 | 83.9386 |
| Na 330.237 | 1980258x | 1978163x | 1979199x |
| Ni 231.604 | 143.430 | 144.575 | 144.317 |
| Pb 220.353 | 456.217 | 456.565 | 462.847 |
| Sb 206.834 | 42.5232 | 42.9035 | 44.6245 |
| Se 196.026 | 100.638 | 105.270 | 102.255 |
| Sn 189.925 | 168.965 | 177.661 | 179.908 |
| Sr 216.596 | 2289.21 | 2305.17 | 2313.79 |
| Ti 334.941 | 601.422 | 601.992 | 606.356 |
| Tl 190.794 | 21.1816 | 25.7229 | 24.6474 |
| V 292.401 | 157.877 | 157.550 | 158.620 |
| Zn 206.200 | 764.961 | 770.505 | 777.724 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 50.6337b | ppb | 0.1203 | 0.2 | 4226.46 |
| Al 308.215 | 37404.6b | ppb | 76.2335 | 0.2 | 251549 |
| As 188.980 | 210.661b | ppb | 7.3527 | 3.5 | 136.240 |
| B 249.678 | 1747.27b | ppb | 5.2968 | 0.3 | 29000.6 |
| Ba 389.178 | 2197.50b | ppb | 9.8622 | 0.4 | 47448.5 |
| Be 313.042 | 47.3712b | ppb | 0.2905 | 0.6 | 85361.4 |
| Ca 370.602 | 278295b | ppb | 1618 | 0.6 | 806263 |
| Cd 226.502 | 44.7862b | ppb | 0.2319 | 0.5 | 2273.37 |
| Co 228.615 | 62.6451b | ppb | 0.3816 | 0.6 | 761.441 |
| Cr 267.716 | 138.378b | ppb | 0.7505 | 0.5 | 7756.42 |
| Cu 324.754 | 156.944b | ppb | 0.0548 | 0.0 | 11920.8 |
| Fe 271.441 | 104130b | ppb | 503.423 | 0.5 | 164083 |
| K 766.491 | 59123.8xb | ppb | 170.965 | 0.3 | 2648485 |
| Mg 279.078 | 122930b | ppb | 404.694 | 0.3 | 334812 |
| Mn 257.610 | 2840.29b | ppb | 11.3292 | 0.4 | 559814 |
| Mo 202.032 | 84.4498b | ppb | 0.4588 | 0.5 | 579.332 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 1979207xb | ppb | 1047.58 | 0.1 | 88776.2 |
| Ni 231.604 | 144.107b | ppb | 0.6008 | 0.4 | 453.912 |
| Pb 220.353 | 458.543b | ppb | 3.7312 | 0.8 | 739.180 |
| Sb 206.834 | 43.3504b | ppb | 1.1197 | 2.6 | 59.8556 |
| Se 196.026 | 102.721b | ppb | 2.3510 | 2.3 | 50.7903 |
| Sn 189.925 | 175.512b | ppb | 5.7795 | 3.3 | 127.811 |
| Sr 216.596 | 2302.72b | ppb | 12.4705 | 0.5 | 28742.9 |
| Ti 334.941 | 603.257b | ppb | 2.6990 | 0.4 | 175873 |
| Tl 190.794 | 23.8506b | ppb | 2.3732 | 10.0 | 6.3786 |
| V 292.401 | 158.016b | ppb | 0.5487 | 0.3 | 4129.77 |
| Zn 206.200 | 771.064b | ppb | 6.3998 | 0.8 | 842.203 |

**680-106253-b-1-a (Samp)** **10/17/2014, 11:33:32 PM** **Rack 3, Tube 10**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2285u | -0.2411u | -0.1062u |
| Al 308.215 | 809.554 | 808.261 | 805.851 |
| As 188.980 | -7.6682u | -2.8248u | 1.0863 |
| B 249.678 | 122.389 | 119.606 | 115.941 |
| Ba 389.178 | 50.7824 | 50.9138 | 51.2648 |
| Be 313.042 | 3.4335 | 3.4314 | 3.4096 |
| Ca 370.602 | 15729 | 15806 | 15731 |
| Cd 226.502 | -0.0552 | -0.0331 | -0.0090 |
| Co 228.615 | 6.7809 | 6.6301 | 7.2717 |
| Cr 267.716 | 0.7207 | 0.5750 | 0.6736 |
| Cu 324.754 | 1.2002 | 1.3623 | 1.5306 |
| Fe 271.441 | 806.887 | 803.885 | 804.787 |
| K 766.491 | 4322.29 | 4327.62 | 4319.85 |
| Mg 279.078 | 7381.18 | 7399.60 | 7354.16 |
| Mn 257.610 | 69.0006 | 69.3675 | 68.9592 |
| Mo 202.032 | 0.3432 | 0.4546 | 0.0643 |
| Na 330.237 | 11455.8 | 11558.1 | 11384.1 |
| Ni 231.604 | 9.4461 | 7.3179 | 8.6311 |
| Pb 220.353 | 0.4024 | 0.7206 | 0.3365 |
| Sb 206.834 | 1.8205 | 3.8791 | 2.5503 |
| Se 196.026 | 0.6978 | -0.5403u | 8.0358 |
| Sn 189.925 | 1.1634 | -3.4212u | 0.3748 |
| Sr 216.596 | 168.058 | 169.708 | 168.238 |
| Ti 334.941 | 4.0872 | 4.0683 | 3.8430 |
| Tl 190.794 | 0.6585 | -0.2005u | 0.3065 |
| V 292.401 | 0.6679 | 0.5225 | 0.4504 |
| Zn 206.200 | 25.0703 | 26.9959 | 25.6494 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1919 | ppb | 0.0745 | 38.8 | -29.2333 |
| Al 308.215 | 807.888 | ppb | 1.8792 | 0.2 | 6020.46 |
| As 188.980 | -3.1356 | ppb | 4.3855 | 139.9 | -7.3325 |
| B 249.678 | 119.312 | ppb | 3.2339 | 2.7 | 2033.75 |
| Ba 389.178 | 50.9870 | ppb | 0.2494 | 0.5 | 1027.51 |
| Be 313.042 | 3.4248 | ppb | 0.0132 | 0.4 | 5961.67 |
| Ca 370.602 | 15756 | ppb | 44.04 | 0.3 | 45712 |
| Cd 226.502 | -0.0324 | ppb | 0.0231 | 71.3 | 11.1765 |
| Co 228.615 | 6.8942 | ppb | 0.3355 | 4.9 | 87.9879 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 0.6565 | ppb | 0.0744 | 11.3 | 71.5180 |
| Cu 324.754 | 1.3644 | ppb | 0.1652 | 12.1 | 344.637 |
| Fe 271.441 | 805.186 | ppb | 1.5400 | 0.2 | 1285.48 |
| K 766.491 | 4323.26 | ppb | 3.9733 | 0.1 | 193888 |
| Mg 279.078 | 7378.31 | ppb | 22.8558 | 0.3 | 20120.4 |
| Mn 257.610 | 69.1091 | ppb | 0.2247 | 0.3 | 13683.2 |
| Mo 202.032 | 0.2873 | ppb | 0.2010 | 70.0 | 8.3216 |
| Na 330.237 | 11466.0 | ppb | 87.4357 | 0.8 | 539.412 |
| Ni 231.604 | 8.4650 | ppb | 1.0738 | 12.7 | 20.8919 |
| Pb 220.353 | 0.4865 | ppb | 0.2054 | 42.2 | 10.3074 |
| Sb 206.834 | 2.7500 | ppb | 1.0437 | 38.0 | -1.6934 |
| Se 196.026 | 2.7311 | ppb | 4.6355 | 169.7 | 2.0782 |
| Sn 189.925 | -0.6277 | ppb | 2.4512 | 390.5 | -6.2206 |
| Sr 216.596 | 168.668 | ppb | 0.9052 | 0.5 | 2101.21 |
| Ti 334.941 | 3.9995 | ppb | 0.1359 | 3.4 | 1146.49 |
| Tl 190.794 | 0.2548 | ppb | 0.4318 | 169.4 | -7.4524 |
| V 292.401 | 0.5469 | ppb | 0.1108 | 20.3 | 3.2356 |
| Zn 206.200 | 25.9052 | ppb | 0.9880 | 3.8 | 28.6677 |

**680-106253-b-2-a (Samp)** **10/17/2014, 11:37:49 PM** **Rack 3, Tube 11**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.3163u | -0.3293u | -0.3821u |
| Al 308.215 | 424.861 | 426.455 | 425.303 |
| As 188.980 | 15.5604 | 16.5693 | 21.5449 |
| B 249.678 | 59.9457 | 58.9249 | 58.2472 |
| Ba 389.178 | 133.458 | 133.685 | 134.038 |
| Be 313.042 | 4.3616 | 4.3843 | 4.3799 |
| Ca 370.602 | 13180 | 13249 | 13170 |
| Cd 226.502 | -0.6783u | -0.6305u | -0.6262u |
| Co 228.615 | 9.4760 | 8.6968 | 8.9126 |
| Cr 267.716 | 6.2554 | 6.4407 | 6.3456 |
| Cu 324.754 | 2.0802 | 2.0628 | 1.8351 |
| Fe 271.441 | 6030.31 | 6068.89 | 6048.14 |
| K 766.491 | 6045.52 | 6062.53 | 6051.27 |
| Mg 279.078 | 7010.02 | 7029.48 | 7010.83 |
| Mn 257.610 | 30.4617 | 30.5209 | 30.3123 |
| Mo 202.032 | 0.9608 | 1.3586 | 0.6532 |
| Na 330.237 | 65092.3 | 65306.5 | 65150.4 |
| Ni 231.604 | 16.6950 | 16.8398 | 15.7424 |
| Pb 220.353 | 4.4154 | 3.8511 | 3.3234 |
| Sb 206.834 | -2.5943u | -1.2445u | -1.0892u |
| Se 196.026 | 1.2646 | -0.2689u | 8.6476 |
| Sn 189.925 | -1.8497u | -1.4384u | 1.0388 |
| Sr 216.596 | 203.987 | 205.183 | 204.198 |
| Ti 334.941 | 3.8406 | 3.8343 | 4.1814 |
| Tl 190.794 | -1.5662u | -1.0878u | -2.9803u |
| V 292.401 | 7.7481 | 7.7738 | 8.0425 |
| Zn 206.200 | 51.3566 | 50.7953 | 51.6579 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.3426 | ppb | 0.0349 | 10.2 | -44.4480 |
| Al 308.215 | 425.540 | ppb | 0.8232 | 0.2 | 3466.96 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 17.8916 | ppb | 3.2039 | 17.9 | 6.7802 |
| B 249.678 | 59.0393 | ppb | 0.8550 | 1.4 | 1014.26 |
| Ba 389.178 | 133.727 | ppb | 0.2924 | 0.2 | 2810.92 |
| Be 313.042 | 4.3753 | ppb | 0.0120 | 0.3 | 7674.85 |
| Ca 370.602 | 13199 | ppb | 42.88 | 0.3 | 38232 |
| Cd 226.502 | -0.6450 | ppb | 0.0289 | 4.5 | 4.4182 |
| Co 228.615 | 9.0285 | ppb | 0.4023 | 4.5 | 113.428 |
| Cr 267.716 | 6.3473 | ppb | 0.0927 | 1.5 | 388.152 |
| Cu 324.754 | 1.9927 | ppb | 0.1367 | 6.9 | 393.418 |
| Fe 271.441 | 6049.11 | ppb | 19.3103 | 0.3 | 9547.63 |
| K 766.491 | 6053.11 | ppb | 8.6523 | 0.1 | 271371 |
| Mg 279.078 | 7016.78 | ppb | 11.0061 | 0.2 | 19136.6 |
| Mn 257.610 | 30.4317 | ppb | 0.1075 | 0.4 | 6087.46 |
| Mo 202.032 | 0.9909 | ppb | 0.3537 | 35.7 | 12.8812 |
| Na 330.237 | 65183.1 | ppb | 110.783 | 0.2 | 2947.53 |
| Ni 231.604 | 16.4257 | ppb | 0.5962 | 3.6 | 46.2358 |
| Pb 220.353 | 3.8633 | ppb | 0.5461 | 14.1 | 15.9822 |
| Sb 206.834 | -1.6427 | ppb | 0.8278 | 50.4 | -7.7391 |
| Se 196.026 | 3.2144 | ppb | 4.7674 | 148.3 | 2.3447 |
| Sn 189.925 | -0.7498 | ppb | 1.5625 | 208.4 | -6.2964 |
| Sr 216.596 | 204.456 | ppb | 0.6387 | 0.3 | 2549.21 |
| Ti 334.941 | 3.9521 | ppb | 0.1986 | 5.0 | 1128.46 |
| Tl 190.794 | -1.8781 | ppb | 0.9841 | 52.4 | -10.5646 |
| V 292.401 | 7.8548 | ppb | 0.1631 | 2.1 | 195.241 |
| Zn 206.200 | 51.2699 | ppb | 0.4378 | 0.9 | 56.2763 |

**680-106253-b-3-a (Samp)** **10/17/2014, 11:42:07 PM** **Rack 3, Tube 12**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -1.1101u | -1.0290u | -1.1595u |
| Al 308.215 | 543.615 | 542.370 | 543.624 |
| As 188.980 | 36.0747 | 36.5526 | 37.3844 |
| B 249.678 | 407.830 | 410.331 | 408.819 |
| Ba 389.178 | 51.0735 | 50.6612 | 51.4596 |
| Be 313.042 | 0.3492 | 0.3448 | 0.3443 |
| Ca 370.602 | 8450 | 8480 | 8458 |
| Cd 226.502 | -0.5873 | -0.5770 | -0.6577 |
| Co 228.615 | 2.8082 | 2.3768 | 2.5071 |
| Cr 267.716 | 10.4812 | 10.7080 | 10.5819 |
| Cu 324.754 | 0.8954 | 0.9019 | 0.8645 |
| Fe 271.441 | 21273.8 | 21302.8 | 21189.6 |
| K 766.491 | 25932.5 | 25986.0 | 25939.5 |
| Mg 279.078 | 4542.79 | 4543.00 | 4512.34 |
| Mn 257.610 | 128.414 | 128.904 | 128.697 |
| Mo 202.032 | 0.0406u | 1.0058 | 0.8915 |
| Na 330.237 | 33546.0 | 33474.0 | 33239.9 |
| Ni 231.604 | 7.8306 | 6.7755 | 9.7609 |
| Pb 220.353 | 2.0977 | 2.1683 | 1.6867 |
| Sb 206.834 | 0.9176 | 2.3169 | -1.9718u |
| Se 196.026 | 7.5441 | 3.2337 | 1.3649 |
| Sn 189.925 | 1.0628 | 1.9922 | 1.0819 |
| Sr 216.596 | 68.2710 | 68.8727 | 68.8888 |
| Ti 334.941 | 6.1577 | 6.2664 | 6.8767 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 4.6775 | -1.9779u | 1.6631u |
| V 292.401 | 25.1756 | 24.9987 | 24.9510 |
| Zn 206.200 | 7.4414 | 6.5880 | 5.7754 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -1.0995 | ppb | 0.0659 | 6.0 | -106.171 |
| Al 308.215 | 543.203 | ppb | 0.7217 | 0.1 | 4283.35 |
| As 188.980 | 36.6706 | ppb | 0.6628 | 1.8 | 19.3193 |
| B 249.678 | 408.993 | ppb | 1.2595 | 0.3 | 6827.35 |
| Ba 389.178 | 51.0648 | ppb | 0.3993 | 0.8 | 1036.21 |
| Be 313.042 | 0.3461 | ppb | 0.0027 | 0.8 | 385.190 |
| Ca 370.602 | 8463 | ppb | 15.51 | 0.2 | 24311 |
| Cd 226.502 | -0.6073 | ppb | 0.0439 | 7.2 | 62.4868 |
| Co 228.615 | 2.5640 | ppb | 0.2213 | 8.6 | 38.6051 |
| Cr 267.716 | 10.5904 | ppb | 0.1136 | 1.1 | 628.880 |
| Cu 324.754 | 0.8873 | ppb | 0.0200 | 2.3 | 317.876 |
| Fe 271.441 | 21255.4 | ppb | 58.8069 | 0.3 | 33504.5 |
| K 766.491 | 25952.7 | ppb | 29.1114 | 0.1 | 1162703 |
| Mg 279.078 | 4532.71 | ppb | 17.6390 | 0.4 | 12367.7 |
| Mn 257.610 | 128.672 | ppb | 0.2463 | 0.2 | 25433.3 |
| Mo 202.032 | 0.6460 | ppb | 0.5274 | 81.6 | 9.7810 |
| Na 330.237 | 33420.0 | ppb | 160.024 | 0.5 | 1520.23 |
| Ni 231.604 | 8.1224 | ppb | 1.5139 | 18.6 | 21.5977 |
| Pb 220.353 | 1.9842 | ppb | 0.2601 | 13.1 | 14.0619 |
| Sb 206.834 | 0.4209 | ppb | 2.1871 | 519.6 | -4.2444 |
| Se 196.026 | 4.0476 | ppb | 3.1690 | 78.3 | 2.9027 |
| Sn 189.925 | 1.3789 | ppb | 0.5311 | 38.5 | -4.6938 |
| Sr 216.596 | 68.6775 | ppb | 0.3521 | 0.5 | 885.626 |
| Ti 334.941 | 6.4336 | ppb | 0.3876 | 6.0 | 1851.53 |
| Tl 190.794 | 1.4542 | ppb | 3.3326 | 229.2 | -8.8695 |
| V 292.401 | 25.0417 | ppb | 0.1183 | 0.5 | 649.764 |
| Zn 206.200 | 6.6016 | ppb | 0.8331 | 12.6 | 6.4700 |

**Cont Calib Verif (CCV)** **10/17/2014, 11:46:24 PM** **Rack 3, Tube 13**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 484.944 | 488.320 | 486.632 |
| Al 308.215 | 4791.59 | 4800.00 | 4774.07 |
| As 188.980 | 458.332 | 457.995 | 458.582 |
| B 249.678 | 487.745 | 490.183 | 487.318 |
| Ba 389.178 | 4951.74 | 4958.05 | 4939.08 |
| Be 313.042 | 487.033 | 488.121 | 484.587 |
| Ca 370.602 | 4589 | 4607 | 4576 |
| Cd 226.502 | 501.085 | 501.266 | 497.748 |
| Co 228.615 | 481.900 | 481.465 | 478.037 |
| Cr 267.716 | 4831.84 | 4843.49 | 4818.99 |
| Cu 324.754 | 4824.61 | 4891.64 | 4936.32 |
| Fe 271.441 | 4806.91 | 4820.24 | 4792.31 |
| K 766.491 | 9983.79 | 9991.39 | 9966.34 |
| Mg 279.078 | 4777.73 | 4787.79 | 4753.92 |
| Mn 257.610 | 4689.55 | 4695.43 | 4686.78 |
| Mo 202.032 | 481.699 | 481.250 | 478.897 |
| Na 330.237 | 7693.44 | 7695.36 | 7625.51 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 2471.70 | 2480.35 | 2460.45 |
| Pb 220.353 | 497.400 | 495.223 | 493.989 |
| Sb 206.834 | 929.438 | 936.123 | 928.541 |
| Se 196.026 | 4760.17 | 4761.04 | 4744.41 |
| Sn 189.925 | 4859.20 | 4832.42 | 4756.42 |
| Sr 216.596 | 2459.77 | 2459.15 | 2446.59 |
| Ti 334.941 | 486.174 | 487.098 | 485.702 |
| Tl 190.794 | 4869.87 | 4868.89 | 4846.38 |
| V 292.401 | 4673.69 | 4686.06 | 4665.53 |
| Zn 206.200 | 2414.44 | 2416.91 | 2395.33 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 486.632 | ppb | 1.6880 | 0.3 | 41471.1 | 97.32644 |
| Al 308.215 | 4788.55 | ppb | 13.2298 | 0.3 | 33219.9 | 95.77102 |
| As 188.980 | 458.303 | ppb | 0.2942 | 0.1 | 303.098 | 91.66057 |
| B 249.678 | 488.415 | ppb | 1.5456 | 0.3 | 8206.80 | 97.68306 |
| Ba 389.178 | 4949.62 | ppb | 9.6625 | 0.2 | 106489 | 98.99248 |
| Be 313.042 | 486.580 | ppb | 1.8097 | 0.4 | 880440 | 97.31603 |
| Ca 370.602 | 4591 | ppb | 15.53 | 0.3 | 13669 | 91.82048 |
| Cd 226.502 | 500.033 | ppb | 1.9811 | 0.4 | 21111.6 | 100.00659 |
| Co 228.615 | 480.467 | ppb | 2.1159 | 0.4 | 5658.91 | 96.09346 |
| Cr 267.716 | 4831.44 | ppb | 12.2517 | 0.3 | 266005 | 96.62878 |
| Cu 324.754 | 4884.19 | ppb | 56.2252 | 1.2 | 362157 | 97.68381 |
| Fe 271.441 | 4806.49 | ppb | 13.9713 | 0.3 | 7697.70 | 96.12974 |
| K 766.491 | 9980.51 | ppb | 12.8450 | 0.1 | 447285 | 99.80508 |
| Mg 279.078 | 4773.15 | ppb | 17.3919 | 0.4 | 12921.0 | 95.46296 |
| Mn 257.610 | 4690.59 | ppb | 4.4143 | 0.1 | 922635 | 93.81174 |
| Mo 202.032 | 480.616 | ppb | 1.5053 | 0.3 | 3290.57 | 96.12311 |
| Na 330.237 | 7671.44 | ppb | 39.7851 | 0.5 | 311.612 | 102.28583 |
| Ni 231.604 | 2470.83 | ppb | 9.9789 | 0.4 | 7721.13 | 98.83338 |
| Pb 220.353 | 495.537 | ppb | 1.7270 | 0.3 | 795.073 | 99.10744 |
| Sb 206.834 | 931.367 | ppb | 4.1430 | 0.4 | 1374.57 | 93.13671 |
| Se 196.026 | 4755.21 | ppb | 9.3607 | 0.2 | 2240.17 | 95.10420 |
| Sn 189.925 | 4816.01 | ppb | 53.3151 | 1.1 | 3642.43 | 96.32028 |
| Sr 216.596 | 2455.17 | ppb | 7.4342 | 0.3 | 30324.3 | 98.20676 |
| Ti 334.941 | 486.325 | ppb | 0.7103 | 0.1 | 141719 | 97.26497 |
| Tl 190.794 | 4861.71 | ppb | 13.2874 | 0.3 | 5439.11 | 97.23428 |
| V 292.401 | 4675.10 | ppb | 10.3377 | 0.2 | 121816 | 93.50195 |
| Zn 206.200 | 2408.90 | ppb | 11.8135 | 0.5 | 2631.30 | 96.35583 |

**Cont Calib Blank (CCB)** **10/17/2014, 11:50:41 PM** **Rack 3, Tube 14**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.2226 | 0.0591 | 0.0904 |
| Al 308.215 | -7.4970u | -9.1486u | -5.6396u |
| As 188.980 | -0.7997u | 1.6160 | -2.7793u |
| B 249.678 | 13.4706 | 11.8424 | 11.7369 |
| Ba 389.178 | 0.7319 | 0.5127 | 0.4425 |
| Be 313.042 | 0.0255 | 0.0186 | 0.0120 |
| Ca 370.602 | 6.175 | 0.3252 | 3.652 |
| Cd 226.502 | 0.2858 | 0.2026 | 0.3087 |
| Co 228.615 | -0.1754u | 0.0217 | -0.2317u |
| Cr 267.716 | 0.6986 | 0.6277 | 0.5855 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 0.7339 | 0.6637 | 0.6063 |
| Fe 271.441 | 2.5372 | 3.7857 | -4.7094u |
| K 766.491 | 4.0200 | 3.0533 | 2.1289 |
| Mg 279.078 | 1.3072 | -0.9485u | 0.1027 |
| Mn 257.610 | 0.7417 | 0.7416 | 0.6064 |
| Mo 202.032 | 1.1883 | 1.2888 | 0.8649 |
| Na 330.237 | -34.9001u | 327.892 | 103.314 |
| Ni 231.604 | -0.9527u | -0.0910u | 0.1714 |
| Pb 220.353 | -0.7339u | 0.7476 | 1.6332 |
| Sb 206.834 | 5.2314 | 3.8625 | 5.2718 |
| Se 196.026 | -2.1101u | -3.7808u | 3.0113 |
| Sn 189.925 | 1.1926 | 0.6744 | 2.1120 |
| Sr 216.596 | 0.4598 | 0.6352 | 0.2502 |
| Ti 334.941 | 0.0814 | 0.1072 | 0.1130 |
| Tl 190.794 | 2.8859 | 0.6159 | 3.0032 |
| V 292.401 | 0.7075 | 0.5484 | 0.3881 |
| Zn 206.200 | 0.5117 | 1.9806 | 0.8073 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.1240 | ppb | 0.0868 | 70.0 | 3.7356 | 0.12402 |
| Al 308.215 | -7.4284 | ppb | 1.7555 | 23.6 | 553.531 | -7.42842 |
| As 188.980 | -0.6543 | ppb | 2.2013 | 336.4 | -5.6661 | -0.65430 |
| B 249.678 | 12.3500 | ppb | 0.9720 | 7.9 | 248.122 | 12.34997 |
| Ba 389.178 | 0.5624 | ppb | 0.1509 | 26.8 | -68.4882 | 0.56237 |
| Be 313.042 | 0.0187 | ppb | 0.0067 | 36.0 | -206.254 | 0.01867 |
| Ca 370.602 | 3.384 | ppb | 2.934 | 86.7 | 30.23 | 3.38417 |
| Cd 226.502 | 0.2657 | ppb | 0.0558 | 21.0 | 20.7177 | 0.26570 |
| Co 228.615 | -0.1284 | ppb | 0.1331 | 103.6 | 5.2840 | -0.12844 |
| Cr 267.716 | 0.6373 | ppb | 0.0572 | 9.0 | 69.4656 | 0.63727 |
| Cu 324.754 | 0.6680 | ppb | 0.0639 | 9.6 | 292.711 | 0.66797 |
| Fe 271.441 | 0.5378 | ppb | 4.5870 | 852.9 | 16.8825 | 0.53783 |
| K 766.491 | 3.0674 | ppb | 0.9457 | 30.8 | 380.524 | 3.06741 |
| Mg 279.078 | 0.1538 | ppb | 1.1287 | 733.8 | 23.8980 | 0.15381 |
| Mn 257.610 | 0.6966 | ppb | 0.0781 | 11.2 | 173.264 | 0.69656 |
| Mo 202.032 | 1.1140 | ppb | 0.2215 | 19.9 | 14.0186 | 1.11402 |
| Na 330.237 | 132.102 | ppb | 183.101 | 138.6 | 31.6767 | 132.10194 |
| Ni 231.604 | -0.2908 | ppb | 0.5880 | 202.2 | -6.5441 | -0.29078 |
| Pb 220.353 | 0.5490 | ppb | 1.1960 | 217.9 | 10.3517 | 0.54897 |
| Sb 206.834 | 4.7886 | ppb | 0.8023 | 16.8 | 1.1730 | 4.78856 |
| Se 196.026 | -0.9599 | ppb | 3.5391 | 368.7 | 0.3163 | -0.95990 |
| Sn 189.925 | 1.3263 | ppb | 0.7281 | 54.9 | -4.7439 | 1.32635 |
| Sr 216.596 | 0.4484 | ppb | 0.1928 | 43.0 | 11.9118 | 0.44839 |
| Ti 334.941 | 0.1005 | ppb | 0.0168 | 16.7 | -2.3864 | 0.10051 |
| Tl 190.794 | 2.1684 | ppb | 1.3457 | 62.1 | -5.2655 | 2.16835 |
| V 292.401 | 0.5480 | ppb | 0.1597 | 29.1 | 2.7845 | 0.54801 |
| Zn 206.200 | 1.0999 | ppb | 0.7769 | 70.6 | 1.4484 | 1.09986 |

**CRI (Samp)** **10/17/2014, 11:54:59 PM** **Rack 3, Tube 15**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 10.3698 | 10.4791 | 10.6498 |
| Al 308.215 | 201.573 | 203.526 | 200.444 |
| As 188.980 | 19.2007 | 20.4446 | 18.3730 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 108.920 | 110.021 | 108.863 |
| Ba 389.178 | 10.8667 | 12.1771 | 10.8713 |
| Be 313.042 | 4.2135 | 4.2267 | 4.1916 |
| Ca 370.602 | 500.8 | 499.7 | 496.6 |
| Cd 226.502 | 5.5311 | 5.3791 | 5.4478 |
| Co 228.615 | 10.1567 | 10.3713 | 10.6669 |
| Cr 267.716 | 10.4162 | 10.5790 | 10.4726 |
| Cu 324.754 | 22.0494 | 21.8385 | 21.6530 |
| Fe 271.441 | 51.7322 | 54.6428 | 53.2483 |
| K 766.491 | 1081.61 | 1083.99 | 1077.22 |
| Mg 279.078 | 516.392 | 518.261 | 512.017 |
| Mn 257.610 | 10.7387 | 10.7087 | 10.5867 |
| Mo 202.032 | 10.4086 | 10.3774 | 10.3076 |
| Na 330.237 | 1124.27 | 1131.59 | 1064.22 |
| Ni 231.604 | 41.8795 | 41.7337 | 42.3797 |
| Pb 220.353 | 11.5475 | 9.9869 | 10.5269 |
| Sb 206.834 | 25.0567 | 20.2783 | 20.5609 |
| Se 196.026 | 20.1371 | 20.5897 | 19.5829 |
| Sn 189.925 | 53.1182 | 56.0741 | 49.2816 |
| Sr 216.596 | 10.6553 | 10.2953 | 10.3383 |
| Ti 334.941 | 10.5749 | 10.6196 | 10.5259 |
| Tl 190.794 | 24.6934 | 25.1755 | 26.7694 |
| V 292.401 | 9.9125 | 9.9336 | 10.1832 |
| Zn 206.200 | 22.8088 | 22.5827 | 21.7897 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 10.4996 | ppb | 0.1411 | 1.3 | 888.914 |
| Al 308.215 | 201.847 | ppb | 1.5594 | 0.8 | 1957.99 |
| As 188.980 | 19.3394 | ppb | 1.0427 | 5.4 | 7.7892 |
| B 249.678 | 109.268 | ppb | 0.6528 | 0.6 | 1867.93 |
| Ba 389.178 | 11.3050 | ppb | 0.7552 | 6.7 | 163.558 |
| Be 313.042 | 4.2106 | ppb | 0.0178 | 0.4 | 7378.41 |
| Ca 370.602 | 499.0 | ppb | 2.199 | 0.4 | 1472 |
| Cd 226.502 | 5.4527 | ppb | 0.0761 | 1.4 | 239.628 |
| Co 228.615 | 10.3983 | ppb | 0.2562 | 2.5 | 128.954 |
| Cr 267.716 | 10.4892 | ppb | 0.0827 | 0.8 | 611.838 |
| Cu 324.754 | 21.8470 | ppb | 0.1983 | 0.9 | 1862.53 |
| Fe 271.441 | 53.2078 | ppb | 1.4557 | 2.7 | 101.267 |
| K 766.491 | 1080.94 | ppb | 3.4331 | 0.3 | 48660.1 |
| Mg 279.078 | 515.557 | ppb | 3.2046 | 0.6 | 1427.57 |
| Mn 257.610 | 10.6780 | ppb | 0.0805 | 0.8 | 2140.19 |
| Mo 202.032 | 10.3645 | ppb | 0.0517 | 0.5 | 77.3236 |
| Na 330.237 | 1106.69 | ppb | 36.9637 | 3.3 | 74.8979 |
| Ni 231.604 | 41.9976 | ppb | 0.3388 | 0.8 | 125.691 |
| Pb 220.353 | 10.6871 | ppb | 0.7925 | 7.4 | 26.3256 |
| Sb 206.834 | 21.9653 | ppb | 2.6810 | 12.2 | 25.6670 |
| Se 196.026 | 20.1032 | ppb | 0.5042 | 2.5 | 10.2333 |
| Sn 189.925 | 52.8246 | ppb | 3.4058 | 6.4 | 34.2668 |
| Sr 216.596 | 10.4296 | ppb | 0.1966 | 1.9 | 134.419 |
| Ti 334.941 | 10.5735 | ppb | 0.0469 | 0.4 | 3050.87 |
| Tl 190.794 | 25.5461 | ppb | 1.0865 | 4.3 | 20.8931 |
| V 292.401 | 10.0098 | ppb | 0.1506 | 1.5 | 248.148 |
| Zn 206.200 | 22.3938 | ppb | 0.5352 | 2.4 | 24.8127 |

**mb 680-353312/1-a (Samp)** **10/17/2014, 11:59:16 PM** **Rack 3, Tube 16**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1202 | -0.1767u | 0.0339 |
| Al 308.215 | 33.1542 | 33.7346 | 34.2253 |
| As 188.980 | -2.6003u | -4.8436u | -1.6764u |
| B 249.678 | 6.3101 | 5.4862 | 5.0681 |
| Ba 389.178 | 0.2942 | -1.0804u | -0.3169u |
| Be 313.042 | -0.0317u | -0.0248u | -0.0240u |
| Ca 370.602 | 12.02 | 13.07 | 16.43 |
| Cd 226.502 | 0.0355 | 0.0419 | 0.1234 |
| Co 228.615 | -0.0399u | -0.1373u | -0.2810u |
| Cr 267.716 | 0.6026 | 0.5437 | 0.6650 |
| Cu 324.754 | 0.4476 | 0.2088 | 0.0338 |
| Fe 271.441 | 13.4674 | 14.7374 | 16.1047 |
| K 766.491 | 10.2452 | 9.3242 | 9.9291 |
| Mg 279.078 | 3.1844 | 2.8932 | 3.6216 |
| Mn 257.610 | 0.1761 | 0.1726 | 0.1255 |
| Mo 202.032 | 0.0165 | -0.0907u | -0.0743u |
| Na 330.237 | 114.304 | 80.4606 | 64.0105 |
| Ni 231.604 | -0.0741u | 1.1496 | 0.9078 |
| Pb 220.353 | 0.0403 | -1.3070u | 0.0622 |
| Sb 206.834 | -0.9788u | 0.6318 | 4.3359 |
| Se 196.026 | 2.5089 | 0.7269 | -2.8909u |
| Sn 189.925 | 6.9459 | 10.3047 | 7.6860 |
| Sr 216.596 | -0.2154u | -0.4326u | 0.1952 |
| Ti 334.941 | 0.2509 | 0.2381 | 0.3109 |
| Tl 190.794 | 2.3056 | 0.2572 | -1.2968u |
| V 292.401 | -0.0619u | -0.1711u | 0.0287 |
| Zn 206.200 | 3.4418 | 4.6538 | 1.9170 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0075 | ppb | 0.1527 | 2029.2 | -7.4712 |
| Al 308.215 | 33.7047 | ppb | 0.5362 | 1.6 | 829.177 |
| As 188.980 | -3.0401 | ppb | 1.6287 | 53.6 | -7.2712 |
| B 249.678 | 5.6215 | ppb | 0.6320 | 11.2 | 135.600 |
| Ba 389.178 | -0.3677 | ppb | 0.6887 | 187.3 | -88.5052 |
| Be 313.042 | -0.0268 | ppb | 0.0042 | 15.8 | -288.470 |
| Ca 370.602 | 13.84 | ppb | 2.300 | 16.6 | 60.42 |
| Cd 226.502 | 0.0669 | ppb | 0.0490 | 73.3 | 12.3912 |
| Co 228.615 | -0.1527 | ppb | 0.1212 | 79.4 | 5.0294 |
| Cr 267.716 | 0.6038 | ppb | 0.0607 | 10.1 | 67.6341 |
| Cu 324.754 | 0.2301 | ppb | 0.2077 | 90.3 | 260.226 |
| Fe 271.441 | 14.7698 | ppb | 1.3190 | 8.9 | 39.3171 |
| K 766.491 | 9.8328 | ppb | 0.4680 | 4.8 | 683.557 |
| Mg 279.078 | 3.2330 | ppb | 0.3666 | 11.3 | 32.2819 |
| Mn 257.610 | 0.1580 | ppb | 0.0282 | 17.9 | 67.4027 |
| Mo 202.032 | -0.0495 | ppb | 0.0577 | 116.6 | 6.0543 |
| Na 330.237 | 86.2585 | ppb | 25.6434 | 29.7 | 29.5796 |
| Ni 231.604 | 0.6611 | ppb | 0.6481 | 98.0 | -3.5661 |
| Pb 220.353 | -0.4015 | ppb | 0.7843 | 195.3 | 8.8547 |
| Sb 206.834 | 1.3297 | ppb | 2.7252 | 205.0 | -3.7445 |
| Se 196.026 | 0.1150 | ppb | 2.7514 | 2392.6 | 0.8222 |
| Sn 189.925 | 8.3122 | ppb | 1.7648 | 21.2 | 0.5479 |
| Sr 216.596 | -0.1509 | ppb | 0.3188 | 211.3 | 4.5086 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 0.2666 | ppb | 0.0388 | 14.6 | 46.0386 |
| Tl 190.794 | 0.4220 | ppb | 1.8069 | 428.2 | -7.2174 |
| V 292.401 | -0.0681 | ppb | 0.1000 | 146.9 | -13.1185 |
| Zn 206.200 | 3.3375 | ppb | 1.3714 | 41.1 | 3.9068 |

**lcs 680-353312/2-a (Samp)** **10/18/2014, 12:03:33 AM** **Rack 3, Tube 17**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 49.5725 | 49.7315 | 49.8450 |
| Al 308.215 | 4839.14 | 4868.44 | 4857.49 |
| As 188.980 | 93.5962 | 99.6512 | 97.2916 |
| B 249.678 | 189.919 | 191.540 | 192.057 |
| Ba 389.178 | 101.173 | 101.934 | 101.890 |
| Be 313.042 | 50.1478 | 50.5488 | 50.4856 |
| Ca 370.602 | 4726 | 4767 | 4777 |
| Cd 226.502 | 51.2909 | 51.4259 | 51.3122 |
| Co 228.615 | 49.3898 | 50.0860 | 49.7536 |
| Cr 267.716 | 100.329 | 101.075 | 101.022 |
| Cu 324.754 | 100.411 | 101.183 | 101.956 |
| Fe 271.441 | 4923.79 | 4953.03 | 4969.04 |
| K 766.491 | 5029.73 | 5081.13 | 5056.78 |
| Mg 279.078 | 4811.14 | 4844.36 | 4836.26 |
| Mn 257.610 | 495.673 | 499.601 | 499.169 |
| Mo 202.032 | 98.2895 | 99.4903 | 99.0535 |
| Na 330.237 | 4908.65 | 4867.55 | 5017.41 |
| Ni 231.604 | 98.7905 | 100.060 | 100.016 |
| Pb 220.353 | 498.201 | 506.433 | 503.638 |
| Sb 206.834 | 53.7658 | 50.9245 | 54.1344 |
| Se 196.026 | 104.586 | 93.7164 | 97.9126 |
| Sn 189.925 | 205.390 | 204.622 | 205.532 |
| Sr 216.596 | 98.4683 | 99.6700 | 98.6809 |
| Ti 334.941 | 100.400 | 101.979 | 101.876 |
| Tl 190.794 | 39.0301 | 40.7133 | 39.0248 |
| V 292.401 | 96.1095 | 97.1259 | 96.8868 |
| Zn 206.200 | 101.623 | 101.815 | 102.154 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 49.7164 | ppb | 0.1369 | 0.3 | 4234.51 |
| Al 308.215 | 4855.02 | ppb | 14.8067 | 0.3 | 33173.5 |
| As 188.980 | 96.8463 | ppb | 3.0520 | 3.2 | 59.9440 |
| B 249.678 | 191.172 | ppb | 1.1158 | 0.6 | 3225.77 |
| Ba 389.178 | 101.665 | ppb | 0.4273 | 0.4 | 2117.79 |
| Be 313.042 | 50.3941 | ppb | 0.2156 | 0.4 | 90942.0 |
| Ca 370.602 | 4757 | ppb | 27.12 | 0.6 | 13816 |
| Cd 226.502 | 51.3430 | ppb | 0.0726 | 0.1 | 2192.75 |
| Co 228.615 | 49.7432 | ppb | 0.3482 | 0.7 | 591.252 |
| Cr 267.716 | 100.809 | ppb | 0.4163 | 0.4 | 5588.25 |
| Cu 324.754 | 101.183 | ppb | 0.7728 | 0.8 | 7746.58 |
| Fe 271.441 | 4948.62 | ppb | 22.9426 | 0.5 | 7819.82 |
| K 766.491 | 5055.88 | ppb | 25.7146 | 0.5 | 226704 |
| Mg 279.078 | 4830.59 | ppb | 17.3241 | 0.4 | 13169.5 |
| Mn 257.610 | 498.148 | ppb | 2.1540 | 0.4 | 98060.1 |
| Mo 202.032 | 98.9444 | ppb | 0.6078 | 0.6 | 683.309 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 4931.20 | ppb | 77.4311 | 1.6 | 243.347 |
| Ni 231.604 | 99.6218 | ppb | 0.7203 | 0.7 | 306.237 |
| Pb 220.353 | 502.757 | ppb | 4.1862 | 0.8 | 802.420 |
| Sb 206.834 | 52.9416 | ppb | 1.7565 | 3.3 | 69.6074 |
| Se 196.026 | 98.7382 | ppb | 5.4815 | 5.6 | 47.4104 |
| Sn 189.925 | 205.181 | ppb | 0.4894 | 0.2 | 149.679 |
| Sr 216.596 | 98.9397 | ppb | 0.6413 | 0.6 | 1234.79 |
| Ti 334.941 | 101.418 | ppb | 0.8837 | 0.9 | 29536.3 |
| Tl 190.794 | 39.5894 | ppb | 0.9733 | 2.5 | 36.1462 |
| V 292.401 | 96.7074 | ppb | 0.5314 | 0.5 | 2497.29 |
| Zn 206.200 | 101.864 | ppb | 0.2691 | 0.3 | 111.618 |

**680-106200-b-1-a (Samp)** **10/18/2014, 12:07:50 AM** **Rack 3, Tube 18**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.7486 | -1.1539 | -1.1863 |
| Al 308.215 | 108757 | 108654 | 108582 |
| As 188.980 | 249.053 | 252.110 | 254.986 |
| B 249.678 | 29.1555u | 27.8448u | 28.1723u |
| Ba 389.178 | 4571.02 | 4569.46 | 4559.02 |
| Be 313.042 | 13.6829 | 13.7036 | 13.6831 |
| Ca 370.602 | 58638 | 58979 | 58740 |
| Cd 226.502 | 6.8563 | 6.2870 | 6.5254 |
| Co 228.615 | 224.725 | 227.340 | 225.486 |
| Cr 267.716 | 358.600 | 359.027 | 358.225 |
| Cu 324.754 | 465.083 | 458.469 | 462.238 |
| Fe 271.441 | 429806 | 429709 | 429842 |
| K 766.491 | 7003.34 | 6992.60 | 6988.58 |
| Mg 279.078 | 14407.4 | 14430.0 | 14370.2 |
| Mn 257.610 | 43093.6x | 43358.4x | 43258.7x |
| Mo 202.032 | 30.9225 | 30.8000 | 29.9040 |
| Na 330.237 | 796.228u | 1077.46u | 985.339u |
| Ni 231.604 | 126.479 | 128.157 | 123.501 |
| Pb 220.353 | 1748.06 | 1752.09 | 1748.29 |
| Sb 206.834 | 3.8601 | -7.8904 | -1.8468 |
| Se 196.026 | 9.7360 | 4.8165 | 4.0285 |
| Sn 189.925 | 105.164 | 114.077 | 104.302 |
| Sr 216.596 | 412.691 | 413.770 | 413.407 |
| Ti 334.941 | 1306.17 | 1306.95 | 1305.38 |
| Tl 190.794 | 15.1954u | 13.2345u | 11.6549u |
| V 292.401 | 546.705 | 548.533 | 546.822 |
| Zn 206.200 | 3552.65 | 3572.01 | 3548.07 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -1.0296b | ppb | 0.2439 | 23.7 | 49.1378 |
| Al 308.215 | 108664b | ppb | 87.9052 | 0.1 | 729837 |
| As 188.980 | 252.050b | ppb | 2.9668 | 1.2 | 162.714 |
| B 249.678 | 28.3909b | ppb | 0.6822 | 2.4 | -480.493 |
| Ba 389.178 | 4566.50b | ppb | 6.5282 | 0.1 | 98468.8 |
| Be 313.042 | 13.6899b | ppb | 0.0119 | 0.1 | 24560.4 |
| Ca 370.602 | 58785b | ppb | 174.8 | 0.3 | 167007 |
| Cd 226.502 | 6.5563b | ppb | 0.2859 | 4.4 | 1873.98 |
| Co 228.615 | 225.850b | ppb | 1.3452 | 0.6 | 2719.78 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 358.617b | ppb | 0.4015 | 0.1 | 20205.8 |
| Cu 324.754 | 461.930b | ppb | 3.3175 | 0.7 | 34657.1 |
| Fe 271.441 | 429786b | ppb | 68.4309 | 0.0 | 677177 |
| K 766.491 | 6994.84b | ppb | 7.6271 | 0.1 | 313553 |
| Mg 279.078 | 14402.5b | ppb | 30.2231 | 0.2 | 38293.7 |
| Mn 257.610 | 43236.9xb | ppb | 133.706 | 0.3 | 8505195 |
| Mo 202.032 | 30.5422b | ppb | 0.5561 | 1.8 | 194.542 |
| Na 330.237 | 953.010b | ppb | 143.378 | 15.0 | -112.315 |
| Ni 231.604 | 126.046b | ppb | 2.3583 | 1.9 | 425.094 |
| Pb 220.353 | 1749.48b | ppb | 2.2620 | 0.1 | 2803.65 |
| Sb 206.834 | -1.9591b | ppb | 5.8760 | 299.9 | 9.2513 |
| Se 196.026 | 6.1937b | ppb | 3.0929 | 49.9 | 18.1365 |
| Sn 189.925 | 107.848b | ppb | 5.4121 | 5.0 | 75.9462 |
| Sr 216.596 | 413.289b | ppb | 0.5488 | 0.1 | 5662.90 |
| Ti 334.941 | 1306.17b | ppb | 0.7851 | 0.1 | 380739 |
| Tl 190.794 | 13.3616b | ppb | 1.7736 | 13.3 | -27.0894 |
| V 292.401 | 547.353b | ppb | 1.0231 | 0.2 | 14438.9 |
| Zn 206.200 | 3557.58b | ppb | 12.7077 | 0.4 | 3888.26 |

**680-106200-b-1-aSD (Samp)** **10/18/2014, 12:12:08 AM** **Rack 3, Tube 19**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1915 | -0.7499u | -0.2819 |
| Al 308.215 | 22319.8 | 21893.6 | 21593.5 |
| As 188.980 | 44.1912 | 52.5758 | 40.0377 |
| B 249.678 | 8.8384u | 8.4109u | 9.4990u |
| Ba 389.178 | 972.826 | 955.192 | 944.661 |
| Be 313.042 | 2.8032 | 2.7638 | 2.7230 |
| Ca 370.602 | 12190 | 12016 | 11853 |
| Cd 226.502 | 1.2935 | 1.0693 | 1.1593 |
| Co 228.615 | 47.9342 | 46.9914 | 45.6918 |
| Cr 267.716 | 76.0157 | 74.4731 | 73.2052 |
| Cu 324.754 | 93.5718 | 91.5600 | 89.9784 |
| Fe 271.441 | 92585.5 | 91026.4 | 89845.6 |
| K 766.491 | 1334.79 | 1321.09 | 1306.81 |
| Mg 279.078 | 3091.92 | 3046.22 | 3007.24 |
| Mn 257.610 | 10764.0 | 10609.1 | 10507.6 |
| Mo 202.032 | 6.8571 | 6.8482 | 6.2909 |
| Na 330.237 | 509.053u | 80.0555u | 308.057u |
| Ni 231.604 | 27.6674 | 26.1349 | 26.0189 |
| Pb 220.353 | 376.573 | 365.666 | 365.119 |
| Sb 206.834 | -1.3130 | 5.0477 | 1.8305 |
| Se 196.026 | -2.4233 | -3.1488 | -0.1061 |
| Sn 189.925 | 24.2497 | 26.6489 | 25.9331 |
| Sr 216.596 | 87.4631 | 86.9802 | 85.8919 |
| Ti 334.941 | 272.509 | 268.145 | 267.533 |
| Tl 190.794 | 1.2533u | 5.1356u | 5.8120 |
| V 292.401 | 114.518 | 112.355 | 111.580 |
| Zn 206.200 | 757.315 | 743.201 | 731.534 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.4077 | ppb | 0.2997 | 73.5 | -2.8785 |
| Al 308.215 | 21935.6 | ppb | 364.944 | 1.7 | 147819 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 45.6016 | ppb | 6.3869 | 14.0 | 25.0943 |
| B 249.678 | 8.9161 | ppb | 0.5482 | 6.1 | -20.6475 |
| Ba 389.178 | 957.560 | ppb | 14.2308 | 1.5 | 20585.0 |
| Be 313.042 | 2.7633 | ppb | 0.0401 | 1.5 | 4765.78 |
| Ca 370.602 | 12020 | ppb | 168.7 | 1.4 | 34174 |
| Cd 226.502 | 1.1740 | ppb | 0.1128 | 9.6 | 395.792 |
| Co 228.615 | 46.8725 | ppb | 1.1259 | 2.4 | 569.952 |
| Cr 267.716 | 74.5647 | ppb | 1.4075 | 1.9 | 4238.09 |
| Cu 324.754 | 91.7034 | ppb | 1.8010 | 2.0 | 7077.59 |
| Fe 271.441 | 91152.5 | ppb | 1374.30 | 1.5 | 143634 |
| K 766.491 | 1320.90 | ppb | 13.9936 | 1.1 | 59408.1 |
| Mg 279.078 | 3048.46 | ppb | 42.3868 | 1.4 | 8091.06 |
| Mn 257.610 | 10626.9 | ppb | 129.115 | 1.2 | 2090424 |
| Mo 202.032 | 6.6654 | ppb | 0.3244 | 4.9 | 47.5863 |
| Na 330.237 | 299.055 | ppb | 214.640 | 71.8 | 1.0509 |
| Ni 231.604 | 26.6071 | ppb | 0.9201 | 3.5 | 85.3247 |
| Pb 220.353 | 369.119 | ppb | 6.4607 | 1.8 | 599.403 |
| Sb 206.834 | 1.8550 | ppb | 3.1805 | 171.4 | 0.7333 |
| Se 196.026 | -1.8927 | ppb | 1.5892 | 84.0 | 3.3146 |
| Sn 189.925 | 25.6106 | ppb | 1.2317 | 4.8 | 13.6514 |
| Sr 216.596 | 86.7784 | ppb | 0.8048 | 0.9 | 1195.38 |
| Ti 334.941 | 269.396 | ppb | 2.7131 | 1.0 | 78502.4 |
| Tl 190.794 | 4.0669 | ppb | 2.4601 | 60.5 | -9.6053 |
| V 292.401 | 112.818 | ppb | 1.5226 | 1.3 | 2967.89 |
| Zn 206.200 | 744.016 | ppb | 12.9099 | 1.7 | 813.307 |

**680-106200-b-1-aPDS (Samp)** **10/18/2014, 12:16:26 AM** **Rack 3, Tube 20**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 95.9212 | 94.4534 | 96.1762 |
| Al 308.215 | 109104 | 108831 | 108759 |
| As 188.980 | 339.728 | 336.767 | 344.485 |
| B 249.678 | 205.851 | 205.538 | 207.666 |
| Ba 389.178 | 4601.08 | 4591.15 | 4593.61 |
| Be 313.042 | 107.301 | 107.020 | 107.022 |
| Ca 370.602 | 67493 | 67550 | 67419 |
| Cd 226.502 | 97.9893 | 97.7140 | 97.9127 |
| Co 228.615 | 315.806 | 315.549 | 316.610 |
| Cr 267.716 | 448.563 | 447.354 | 447.932 |
| Cu 324.754 | 557.609 | 555.557 | 558.360 |
| Fe 271.441 | 433063 | 431581 | 432496 |
| K 766.491 | 17115.8 | 17083.3 | 17100.3 |
| Mg 279.078 | 23309.8 | 23267.8 | 23287.3 |
| Mn 257.610 | 43555.4x | 43382.4x | 43509.9x |
| Mo 202.032 | 122.611 | 121.802 | 121.933 |
| Na 330.237 | 9594.87 | 9223.77 | 9145.38 |
| Ni 231.604 | 216.362 | 213.416 | 214.456 |
| Pb 220.353 | 1816.09 | 1820.18 | 1814.11 |
| Sb 206.834 | 92.1664 | 88.2075 | 90.8258 |
| Se 196.026 | 85.4392 | 83.2782 | 84.1323 |
| Sn 189.925 | 209.502 | 203.421 | 196.895 |
| Sr 216.596 | 500.533 | 497.290 | 499.507 |
| Ti 334.941 | 1385.73 | 1381.93 | 1383.59 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 27.4665u | 30.0085u | 29.6783u |
| V 292.401 | 633.555 | 633.121 | 632.857 |
| Zn 206.200 | 3589.84 | 3592.22 | 3607.31 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 95.5169b | ppb | 0.9298 | 1.0 | 8286.09 |
| Al 308.215 | 108898b | ppb | 181.895 | 0.2 | 731422 |
| As 188.980 | 340.327b | ppb | 3.8937 | 1.1 | 222.083 |
| B 249.678 | 206.352b | ppb | 1.1490 | 0.6 | 2488.51 |
| Ba 389.178 | 4595.28b | ppb | 5.1718 | 0.1 | 99102.4 |
| Be 313.042 | 107.114b | ppb | 0.1616 | 0.2 | 193609 |
| Ca 370.602 | 67487b | ppb | 65.35 | 0.1 | 192253 |
| Cd 226.502 | 97.8720b | ppb | 0.1421 | 0.1 | 5734.54 |
| Co 228.615 | 315.988b | ppb | 0.5535 | 0.2 | 3778.56 |
| Cr 267.716 | 447.950b | ppb | 0.6044 | 0.1 | 25124.8 |
| Cu 324.754 | 557.175b | ppb | 1.4506 | 0.3 | 41719.3 |
| Fe 271.441 | 432380b | ppb | 747.875 | 0.2 | 681276 |
| K 766.491 | 17099.8b | ppb | 16.2299 | 0.1 | 766168 |
| Mg 279.078 | 23288.3b | ppb | 21.0483 | 0.1 | 62494.5 |
| Mn 257.610 | 43482.6xb | ppb | 89.6918 | 0.2 | 8553585 |
| Mo 202.032 | 122.115b | ppb | 0.4345 | 0.4 | 821.121 |
| Na 330.237 | 9321.34b | ppb | 240.102 | 2.6 | 261.495 |
| Ni 231.604 | 214.745b | ppb | 1.4943 | 0.7 | 702.509 |
| Pb 220.353 | 1816.79b | ppb | 3.0941 | 0.2 | 2909.88 |
| Sb 206.834 | 90.3999b | ppb | 2.0135 | 2.2 | 140.746 |
| Se 196.026 | 84.2832b | ppb | 1.0884 | 1.3 | 54.9642 |
| Sn 189.925 | 203.272b | ppb | 6.3050 | 3.1 | 148.234 |
| Sr 216.596 | 499.110b | ppb | 1.6572 | 0.3 | 6728.03 |
| Ti 334.941 | 1383.75b | ppb | 1.9003 | 0.1 | 403367 |
| Tl 190.794 | 29.0511b | ppb | 1.3822 | 4.8 | -9.7095 |
| V 292.401 | 633.178b | ppb | 0.3523 | 0.1 | 16664.0 |
| Zn 206.200 | 3596.46b | ppb | 9.4760 | 0.3 | 3930.57 |

**680-106200-a-1-a ms (Samp)** **10/18/2014, 12:20:43 AM** **Rack 3, Tube 21**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 49.2737 | 49.7379 | 48.5434 |
| Al 308.215 | 137675 | 137764 | 137658 |
| As 188.980 | 334.169 | 341.822 | 332.163 |
| B 249.678 | 199.365 | 200.878 | 200.598 |
| Ba 389.178 | 3037.63 | 3043.02 | 3045.13 |
| Be 313.042 | 62.9460 | 63.1360 | 63.0012 |
| Ca 370.602 | 88611 | 88614 | 88259 |
| Cd 226.502 | 53.2802 | 53.3178 | 53.6104 |
| Co 228.615 | 177.892 | 177.357 | 178.800 |
| Cr 267.716 | 434.446 | 435.391 | 434.233 |
| Cu 324.754 | 584.335 | 575.820 | 581.218 |
| Fe 271.441 | 442490 | 442445 | 442273 |
| K 766.491 | 17035.6 | 17064.8 | 17102.9 |
| Mg 279.078 | 27853.1 | 27870.2 | 27813.9 |
| Mn 257.610 | 14453.1 | 14498.5 | 14449.2 |
| Mo 202.032 | 106.184 | 107.594 | 106.541 |
| Na 330.237 | 6642.39 | 6370.50 | 6784.56 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 218.733 | 220.636 | 219.325 |
| Pb 220.353 | 2168.03 | 2163.39 | 2162.24 |
| Sb 206.834 | 21.5158 | 23.1662 | 18.1102 |
| Se 196.026 | 92.2843 | 79.3127 | 87.4942 |
| Sn 189.925 | 295.311 | 305.256 | 308.216 |
| Sr 216.596 | 561.497 | 560.503 | 558.670 |
| Ti 334.941 | 1835.46 | 1840.05 | 1881.50 |
| Tl 190.794 | 30.5928u | 24.1767u | 24.5802u |
| V 292.401 | 576.942 | 578.362 | 578.201 |
| Zn 206.200 | 3662.79 | 3680.43 | 3662.92 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 49.1850 | ppb | 0.6022 | 1.2 | 4173.12 |
| Al 308.215 | 137699 | ppb | 57.0842 | 0.0 | 924505 |
| As 188.980 | 336.051 | ppb | 5.0974 | 1.5 | 219.453 |
| B 249.678 | 200.280 | ppb | 0.8050 | 0.4 | 2363.25 |
| Ba 389.178 | 3041.93 | ppb | 3.8708 | 0.1 | 65675.6 |
| Be 313.042 | 63.0277 | ppb | 0.0978 | 0.2 | 113850 |
| Ca 370.602 | 88495 | ppb | 203.9 | 0.2 | 252507 |
| Cd 226.502 | 53.4028 | ppb | 0.1808 | 0.3 | 3895.87 |
| Co 228.615 | 178.016 | ppb | 0.7296 | 0.4 | 2168.37 |
| Cr 267.716 | 434.690 | ppb | 0.6164 | 0.1 | 24254.5 |
| Cu 324.754 | 580.457 | ppb | 4.3079 | 0.7 | 43449.2 |
| Fe 271.441 | 442403 | ppb | 114.556 | 0.0 | 697050 |
| K 766.491 | 17067.8 | ppb | 33.7286 | 0.2 | 764734 |
| Mg 279.078 | 27845.7 | ppb | 28.8716 | 0.1 | 75514.2 |
| Mn 257.610 | 14467.0 | ppb | 27.4155 | 0.2 | 2846813 |
| Mo 202.032 | 106.773 | ppb | 0.7329 | 0.7 | 715.701 |
| Na 330.237 | 6599.15 | ppb | 210.387 | 3.2 | 134.506 |
| Ni 231.604 | 219.565 | ppb | 0.9736 | 0.4 | 718.787 |
| Pb 220.353 | 2164.55 | ppb | 3.0676 | 0.1 | 3452.14 |
| Sb 206.834 | 20.9307 | ppb | 2.5783 | 12.3 | 41.9436 |
| Se 196.026 | 86.3638 | ppb | 6.5593 | 7.6 | 49.0311 |
| Sn 189.925 | 302.928 | ppb | 6.7601 | 2.2 | 223.723 |
| Sr 216.596 | 560.223 | ppb | 1.4342 | 0.3 | 7504.85 |
| Ti 334.941 | 1852.34 | ppb | 25.3594 | 1.4 | 539951 |
| Tl 190.794 | 26.4499 | ppb | 3.5935 | 13.6 | -29.9534 |
| V 292.401 | 577.835 | ppb | 0.7777 | 0.1 | 15232.1 |
| Zn 206.200 | 3668.72 | ppb | 10.1493 | 0.3 | 4009.56 |

**680-106200-a-1-b msd (Samp)** **10/18/2014, 12:25:00 AM** **Rack 3, Tube 22**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 49.9983 | 50.3005 | 50.1196 |
| Al 308.215 | 129242 | 128860 | 129049 |
| As 188.980 | 383.322 | 383.754 | 388.009 |
| B 249.678 | 212.807 | 212.789 | 212.158 |
| Ba 389.178 | 3275.91 | 3274.01 | 3270.31 |
| Be 313.042 | 62.3768 | 62.3106 | 62.3642 |
| Ca 370.602 | 102860 | 103017 | 103204 |
| Cd 226.502 | 58.8615 | 58.7665 | 58.4419 |
| Co 228.615 | 175.036 | 174.350 | 177.347 |
| Cr 267.716 | 390.758 | 390.256 | 390.438 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 1521.27 | 1505.67 | 1512.19 |
| Fe 271.441 | 433397 | 435984 | 435980 |
| K 766.491 | 16175.3 | 16177.7 | 16221.6 |
| Mg 279.078 | 26876.4 | 26857.4 | 26864.4 |
| Mn 257.610 | 19289.2 | 19370.4 | 19372.3 |
| Mo 202.032 | 110.359 | 108.847 | 109.875 |
| Na 330.237 | 6625.50 | 6843.52 | 6735.56 |
| Ni 231.604 | 265.103 | 266.694 | 267.314 |
| Pb 220.353 | 2543.08 | 2540.40 | 2536.98 |
| Sb 206.834 | 13.2993 | 24.8494 | 28.7019 |
| Se 196.026 | 75.4963 | 79.9333 | 79.7758 |
| Sn 189.925 | 400.102 | 400.954 | 410.819 |
| Sr 216.596 | 637.500 | 637.453 | 638.159 |
| Ti 334.941 | 1766.18 | 1764.73 | 1766.57 |
| Tl 190.794 | 26.6266u | 30.9867u | 32.8402u |
| V 292.401 | 521.313 | 522.750 | 521.695 |
| Zn 206.200 | 4771.41 | 4759.48 | 4770.28 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 50.1395 | ppb | 0.1521 | 0.3 | 4279.68 |
| Al 308.215 | 129050 | ppb | 191.073 | 0.1 | 866511 |
| As 188.980 | 385.028 | ppb | 2.5902 | 0.7 | 252.374 |
| B 249.678 | 212.585 | ppb | 0.3698 | 0.2 | 2586.27 |
| Ba 389.178 | 3273.41 | ppb | 2.8518 | 0.1 | 70653.3 |
| Be 313.042 | 62.3505 | ppb | 0.0351 | 0.1 | 112624 |
| Ca 370.602 | 103027 | ppb | 172.3 | 0.2 | 294841 |
| Cd 226.502 | 58.6900 | ppb | 0.2201 | 0.4 | 4091.08 |
| Co 228.615 | 175.578 | ppb | 1.5702 | 0.9 | 2137.01 |
| Cr 267.716 | 390.484 | ppb | 0.2545 | 0.1 | 21842.7 |
| Cu 324.754 | 1513.04 | ppb | 7.8323 | 0.5 | 112560 |
| Fe 271.441 | 435120 | ppb | 1492.70 | 0.3 | 685575 |
| K 766.491 | 16191.5 | ppb | 26.0727 | 0.2 | 725486 |
| Mg 279.078 | 26866.1 | ppb | 9.6039 | 0.0 | 72742.3 |
| Mn 257.610 | 19344.0 | ppb | 47.4387 | 0.2 | 3806002 |
| Mo 202.032 | 109.693 | ppb | 0.7721 | 0.7 | 736.106 |
| Na 330.237 | 6734.86 | ppb | 109.013 | 1.6 | 116.462 |
| Ni 231.604 | 266.370 | ppb | 1.1403 | 0.4 | 864.528 |
| Pb 220.353 | 2540.15 | ppb | 3.0553 | 0.1 | 4045.02 |
| Sb 206.834 | 22.2835 | ppb | 8.0155 | 36.0 | 43.1116 |
| Se 196.026 | 78.4018 | ppb | 2.5175 | 3.2 | 46.4245 |
| Sn 189.925 | 403.959 | ppb | 5.9566 | 1.5 | 300.254 |
| Sr 216.596 | 637.704 | ppb | 0.3942 | 0.1 | 8459.53 |
| Ti 334.941 | 1765.83 | ppb | 0.9657 | 0.1 | 514734 |
| Tl 190.794 | 30.1512 | ppb | 3.1899 | 10.6 | -22.2140 |
| V 292.401 | 521.919 | ppb | 0.7443 | 0.1 | 13769.0 |
| Zn 206.200 | 4767.06 | ppb | 6.5853 | 0.1 | 5216.94 |

**680-106200-b-39-a (Samp)** **10/18/2014, 12:29:17 AM** **Rack 3, Tube 23**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 5.2440 | 5.1905 | 4.4566 |
| Al 308.215 | 80006.0 | 80274.0 | 80082.0 |
| As 188.980 | 1120.88 | 1124.74 | 1117.59 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 27.9269u | 27.8451u | 27.8304u |
| Ba 389.178 | 1824.01 | 1827.28 | 1827.02 |
| Be 313.042 | 11.1384 | 11.1483 | 11.1419 |
| Ca 370.602 | 57346 | 57266 | 57128 |
| Cd 226.502 | -2.6221 | -2.3523 | -2.2142 |
| Co 228.615 | 84.3256 | 83.0477 | 83.0150 |
| Cr 267.716 | 284.199 | 285.066 | 284.000 |
| Cu 324.754 | 619.554 | 620.384 | 623.008 |
| Fe 271.441 | 388793 | 389735 | 390510 |
| K 766.491 | 5363.10 | 5368.22 | 5364.78 |
| Mg 279.078 | 16439.2 | 16415.4 | 16398.2 |
| Mn 257.610 | 2350.56 | 2348.22 | 2342.81 |
| Mo 202.032 | 74.5091 | 73.2492 | 73.5944 |
| Na 330.237 | 651.135u | 548.816u | 697.013u |
| Ni 231.604 | 189.380 | 189.865 | 188.852 |
| Pb 220.353 | 647.704 | 646.483 | 648.384 |
| Sb 206.834 | 5.1019 | 5.7664 | 9.9915 |
| Se 196.026 | 1.6127 | 13.1557 | 6.9696 |
| Sn 189.925 | 60.8203 | 59.8852 | 62.9007 |
| Sr 216.596 | 641.524 | 639.180 | 641.134 |
| Ti 334.941 | 1939.59 | 1948.23 | 1946.73 |
| Tl 190.794 | -3.3513u | 5.0206u | -1.1136u |
| V 292.401 | 451.235 | 453.326 | 450.617 |
| Zn 206.200 | 1313.34 | 1315.76 | 1303.45 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 4.9637 | ppb | 0.4399 | 8.9 | 340.238 |
| Al 308.215 | 80120.7 | ppb | 138.126 | 0.2 | 538416 |
| As 188.980 | 1121.07 | ppb | 3.5773 | 0.3 | 747.536 |
| B 249.678 | 27.8675 | ppb | 0.0520 | 0.2 | -395.626 |
| Ba 389.178 | 1826.10 | ppb | 1.8178 | 0.1 | 39459.2 |
| Be 313.042 | 11.1429 | ppb | 0.0050 | 0.0 | 19950.7 |
| Ca 370.602 | 57247 | ppb | 110.5 | 0.2 | 162242 |
| Cd 226.502 | -2.3962 | ppb | 0.2075 | 8.7 | 1347.45 |
| Co 228.615 | 83.4628 | ppb | 0.7474 | 0.9 | 1056.19 |
| Cr 267.716 | 284.421 | ppb | 0.5668 | 0.2 | 15895.2 |
| Cu 324.754 | 620.982 | ppb | 1.8032 | 0.3 | 46429.9 |
| Fe 271.441 | 389679 | ppb | 860.032 | 0.2 | 613970 |
| K 766.491 | 5365.37 | ppb | 2.6083 | 0.0 | 240566 |
| Mg 279.078 | 16417.6 | ppb | 20.5877 | 0.1 | 44664.0 |
| Mn 257.610 | 2347.20 | ppb | 3.9799 | 0.2 | 462858 |
| Mo 202.032 | 73.7843 | ppb | 0.6511 | 0.9 | 492.536 |
| Na 330.237 | 632.321 | ppb | 75.8689 | 12.0 | -66.3354 |
| Ni 231.604 | 189.366 | ppb | 0.5069 | 0.3 | 619.988 |
| Pb 220.353 | 647.523 | ppb | 0.9632 | 0.1 | 1054.89 |
| Sb 206.834 | 6.9533 | ppb | 2.6521 | 38.1 | 18.9712 |
| Se 196.026 | 7.2460 | ppb | 5.7765 | 79.7 | 8.3636 |
| Sn 189.925 | 61.2021 | ppb | 1.5436 | 2.5 | 40.6118 |
| Sr 216.596 | 640.613 | ppb | 1.2560 | 0.2 | 8424.99 |
| Ti 334.941 | 1944.85 | ppb | 4.6205 | 0.2 | 566886 |
| Tl 190.794 | 0.1852 | ppb | 4.3345 | 2339.9 | -58.9494 |
| V 292.401 | 451.726 | ppb | 1.4196 | 0.3 | 11932.6 |
| Zn 206.200 | 1310.85 | ppb | 6.5202 | 0.5 | 1421.61 |

**680-106200-b-26-a (Samp)** **10/18/2014, 12:33:35 AM** **Rack 3, Tube 24**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -3.4706u | -3.9857u | -3.8545u |
| Al 308.215 | 126999 | 127054 | 127246 |
| As 188.980 | 281.776 | 284.102 | 283.805 |
| B 249.678 | 15.2962u | 14.0626u | 14.7545u |
| Ba 389.178 | 632.770 | 633.585 | 633.789 |
| Be 313.042 | 5.3432 | 5.3474 | 5.3421 |
| Ca 370.602 | 25232 | 25305 | 25258 |
| Cd 226.502 | -4.7656 | -4.9353 | -4.3934 |
| Co 228.615 | 92.6589 | 93.0846 | 93.7579 |
| Cr 267.716 | 334.962 | 334.831 | 335.241 |
| Cu 324.754 | 193.554 | 195.077 | 194.692 |
| Fe 271.441 | 383335 | 382218 | 384008 |
| K 766.491 | 5974.36 | 5995.26 | 5987.18 |
| Mg 279.078 | 11501.7 | 11527.3 | 11518.5 |
| Mn 257.610 | 3316.83 | 3335.69 | 3320.37 |
| Mo 202.032 | 14.9332 | 15.1895 | 14.4994 |
| Na 330.237 | -105.313u | 235.441u | 155.556u |
| Ni 231.604 | 98.9817 | 97.6876 | 95.8207 |
| Pb 220.353 | 245.442 | 250.071 | 239.401 |
| Sb 206.834 | -4.9830 | -12.8882u | -6.1574 |
| Se 196.026 | 6.9428 | -3.1326 | 8.8224 |
| Sn 189.925 | 21.5030 | 26.3270 | 27.4203 |
| Sr 216.596 | 82.9343 | 82.5895 | 84.0321 |
| Ti 334.941 | 1240.18 | 1241.73 | 1242.48 |
| Tl 190.794 | -2.2906u | 0.2820u | -4.1447u |
| V 292.401 | 654.992 | 657.410 | 656.289 |
| Zn 206.200 | 344.402 | 352.173 | 352.414 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -3.7703 | ppb | 0.2677 | 7.1 | -377.972 |
| Al 308.215 | 127100 | ppb | 129.503 | 0.1 | 853356 |
| As 188.980 | 283.227 | ppb | 1.2657 | 0.4 | 184.213 |
| B 249.678 | 14.7044 | ppb | 0.6183 | 4.2 | -601.298 |
| Ba 389.178 | 633.381 | ppb | 0.5393 | 0.1 | 13774.2 |
| Be 313.042 | 5.3442 | ppb | 0.0028 | 0.1 | 9471.71 |
| Ca 370.602 | 25265 | ppb | 37.29 | 0.1 | 69265 |
| Cd 226.502 | -4.6981 | ppb | 0.2772 | 5.9 | 1227.27 |
| Co 228.615 | 93.1671 | ppb | 0.5541 | 0.6 | 1156.13 |
| Cr 267.716 | 335.011 | ppb | 0.2096 | 0.1 | 18679.2 |
| Cu 324.754 | 194.441 | ppb | 0.7922 | 0.4 | 14811.0 |
| Fe 271.441 | 383187 | ppb | 903.932 | 0.2 | 603745 |
| K 766.491 | 5985.60 | ppb | 10.5422 | 0.2 | 268347 |
| Mg 279.078 | 11515.8 | ppb | 13.0127 | 0.1 | 31272.1 |
| Mn 257.610 | 3324.30 | ppb | 10.0251 | 0.3 | 654984 |
| Mo 202.032 | 14.8740 | ppb | 0.3488 | 2.3 | 89.3681 |
| Na 330.237 | 95.2278 | ppb | 178.208 | 187.1 | -65.0863 |
| Ni 231.604 | 97.4967 | ppb | 1.5891 | 1.6 | 332.128 |
| Pb 220.353 | 244.971 | ppb | 5.3504 | 2.2 | 419.812 |
| Sb 206.834 | -8.0095 | ppb | 4.2656 | 53.3 | -0.9462 |
| Se 196.026 | 4.2109 | ppb | 6.4287 | 152.7 | 7.1183 |
| Sn 189.925 | 25.0834 | ppb | 3.1486 | 12.6 | 13.2515 |
| Sr 216.596 | 83.1853 | ppb | 0.7533 | 0.9 | 1508.79 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 1241.46 | ppb | 1.1711 | 0.1 | 361871 |
| Tl 190.794 | -2.0511 | ppb | 2.2231 | 108.4 | -59.4665 |
| V 292.401 | 656.230 | ppb | 1.2099 | 0.2 | 17268.3 |
| Zn 206.200 | 349.663 | ppb | 4.5575 | 1.3 | 365.549 |

**Cont Calib Verif (CCV)** **10/18/2014, 12:37:52 AM** **Rack 3, Tube 25**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 495.276 | 492.463 | 492.023 |
| Al 308.215 | 4845.61 | 4847.15 | 4823.86 |
| As 188.980 | 461.792 | 456.603 | 458.363 |
| B 249.678 | 480.446 | 483.074 | 482.319 |
| Ba 389.178 | 5003.57 | 5006.63 | 5000.86 |
| Be 313.042 | 490.914 | 492.025 | 489.032 |
| Ca 370.602 | 4687 | 4697 | 4657 |
| Cd 226.502 | 503.730 | 503.192 | 503.245 |
| Co 228.615 | 488.437 | 488.195 | 485.853 |
| Cr 267.716 | 4897.39 | 4906.60 | 4882.77 |
| Cu 324.754 | 5001.27 | 4932.39 | 4973.68 |
| Fe 271.441 | 4935.33 | 4921.93 | 4898.91 |
| K 766.491 | 10030.7 | 10043.1 | 10003.0 |
| Mg 279.078 | 4825.80 | 4826.15 | 4803.70 |
| Mn 257.610 | 4785.85 | 4796.07 | 4735.94 |
| Mo 202.032 | 486.307 | 486.008 | 486.144 |
| Na 330.237 | 7710.69 | 7607.88 | 7744.59 |
| Ni 231.604 | 2497.45 | 2494.42 | 2484.02 |
| Pb 220.353 | 500.423 | 501.252 | 501.336 |
| Sb 206.834 | 938.338 | 939.920 | 942.062 |
| Se 196.026 | 4788.43 | 4800.58 | 4784.41 |
| Sn 189.925 | 4892.44 | 4899.14 | 4887.49 |
| Sr 216.596 | 2483.17 | 2478.64 | 2478.71 |
| Ti 334.941 | 491.915 | 491.941 | 490.754 |
| Tl 190.794 | 4912.70 | 4905.09 | 4896.75 |
| V 292.401 | 4759.43 | 4760.54 | 4731.63 |
| Zn 206.200 | 2435.76 | 2444.13 | 2424.91 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 493.254 | ppb | 1.7645 | 0.4 | 42036.4 | 98.65083 |
| Al 308.215 | 4838.87 | ppb | 13.0244 | 0.3 | 33562.0 | 96.77745 |
| As 188.980 | 458.919 | ppb | 2.6385 | 0.6 | 303.512 | 91.78386 |
| B 249.678 | 481.946 | ppb | 1.3531 | 0.3 | 8098.62 | 96.38924 |
| Ba 389.178 | 5003.69 | ppb | 2.8861 | 0.1 | 107653 | 100.07375 |
| Be 313.042 | 490.657 | ppb | 1.5129 | 0.3 | 887819 | 98.13139 |
| Ca 370.602 | 4680 | ppb | 21.02 | 0.4 | 13930 | 93.60815 |
| Cd 226.502 | 503.389 | ppb | 0.2963 | 0.1 | 21253.5 | 100.67784 |
| Co 228.615 | 487.495 | ppb | 1.4268 | 0.3 | 5741.58 | 97.49898 |
| Cr 267.716 | 4895.59 | ppb | 12.0138 | 0.2 | 269537 | 97.91173 |
| Cu 324.754 | 4969.11 | ppb | 34.6695 | 0.7 | 368450 | 99.38225 |
| Fe 271.441 | 4918.73 | ppb | 18.4195 | 0.4 | 7875.65 | 98.37451 |
| K 766.491 | 10025.6 | ppb | 20.5126 | 0.2 | 449305 | 100.25595 |
| Mg 279.078 | 4818.55 | ppb | 12.8640 | 0.3 | 13043.9 | 96.37105 |
| Mn 257.610 | 4772.62 | ppb | 32.1756 | 0.7 | 938770 | 95.45239 |
| Mo 202.032 | 486.153 | ppb | 0.1494 | 0.0 | 3328.42 | 97.23058 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Na 330.237 | 7687.72 | ppb | 71.1927 | 0.9 | 311.771 | 102.50292 |
| Ni 231.604 | 2491.96 | ppb | 7.0455 | 0.3 | 7787.20 | 99.67846 |
| Pb 220.353 | 501.004 | ppb | 0.5051 | 0.1 | 803.732 | 100.20077 |
| Sb 206.834 | 940.107 | ppb | 1.8692 | 0.2 | 1387.50 | 94.01067 |
| Se 196.026 | 4791.14 | ppb | 8.4226 | 0.2 | 2257.10 | 95.82279 |
| Sn 189.925 | 4893.02 | ppb | 5.8480 | 0.1 | 3700.76 | 97.86041 |
| Sr 216.596 | 2480.17 | ppb | 2.5975 | 0.1 | 30633.3 | 99.20695 |
| Ti 334.941 | 491.537 | ppb | 0.6779 | 0.1 | 143238 | 98.30734 |
| Tl 190.794 | 4904.84 | ppb | 7.9788 | 0.2 | 5487.43 | 98.09689 |
| V 292.401 | 4750.54 | ppb | 16.3781 | 0.3 | 123784 | 95.01071 |
| Zn 206.200 | 2434.93 | ppb | 9.6328 | 0.4 | 2659.77 | 97.39731 |

**Cont Calib Blank (CCB)** **10/18/2014, 12:42:10 AM** **Rack 3, Tube 26**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1113u | -0.1139u | 0.0418 |
| Al 308.215 | -2.3033u | -3.1395u | -2.5399u |
| As 188.980 | 0.9459 | -2.1207u | 2.1847 |
| B 249.678 | 9.0055 | 8.5049 | 7.8661 |
| Ba 389.178 | 1.1543 | 0.8115 | 1.3131 |
| Be 313.042 | 0.0219 | 0.0185 | 0.0134 |
| Ca 370.602 | -0.4498u | 2.533 | 0.1749 |
| Cd 226.502 | 0.0899 | 0.1869 | 0.2137 |
| Co 228.615 | 0.0152 | -0.4017u | 0.0854 |
| Cr 267.716 | 0.5797 | 0.5637 | 0.5029 |
| Cu 324.754 | 0.7171 | 0.9664 | 0.6777 |
| Fe 271.441 | 7.3726 | 11.0447 | 6.9539 |
| K 766.491 | 2.6909 | 1.6562 | 1.9024 |
| Mg 279.078 | 2.2615 | 2.8197 | 2.7023 |
| Mn 257.610 | 0.8706 | 0.7932 | 0.7692 |
| Mo 202.032 | 0.9884 | 1.2571 | 0.6870 |
| Na 330.237 | 20.0901 | 1.8129 | 52.8948 |
| Ni 231.604 | 0.4125 | 0.8385 | 0.2038 |
| Pb 220.353 | 2.3851 | 1.2650 | 0.7245 |
| Sb 206.834 | 3.8774 | 2.9046 | 4.0831 |
| Se 196.026 | 7.1458 | -0.6581u | -5.3914u |
| Sn 189.925 | 0.6676 | 1.5715 | 1.8763 |
| Sr 216.596 | 0.2494 | 0.3085 | 0.3047 |
| Ti 334.941 | 0.1595 | 0.1890 | 0.1000 |
| Tl 190.794 | 3.6970 | 4.2144 | 1.5404 |
| V 292.401 | 0.3980 | 0.6386 | 0.3576 |
| Zn 206.200 | 1.5889 | 1.8400 | 1.1224 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | -0.0611 | ppb | 0.0892 | 145.9 | -12.0549 | -0.06113 |
| Al 308.215 | -2.6609 | ppb | 0.4310 | 16.2 | 585.511 | -2.66089 |
| As 188.980 | 0.3366 | ppb | 2.2164 | 658.4 | -4.9992 | 0.33663 |
| B 249.678 | 8.4588 | ppb | 0.5711 | 6.8 | 183.080 | 8.45885 |
| Ba 389.178 | 1.0930 | ppb | 0.2564 | 23.5 | -57.0596 | 1.09299 |
| Be 313.042 | 0.0179 | ppb | 0.0043 | 24.0 | -207.561 | 0.01793 |
| Ca 370.602 | 0.7527 | ppb | 1.573 | 209.0 | 22.50 | 0.75270 |
| Cd 226.502 | 0.1635 | ppb | 0.0651 | 39.8 | 16.4441 | 0.16351 |
| Co 228.615 | -0.1004 | ppb | 0.2633 | 262.4 | 5.6199 | -0.10036 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Cr 267.716 | 0.5488 | ppb | 0.0405 | 7.4 | 64.5955 | 0.54875 |
| Cu 324.754 | 0.7871 | ppb | 0.1566 | 19.9 | 301.532 | 0.78707 |
| Fe 271.441 | 8.4571 | ppb | 2.2507 | 26.6 | 29.3785 | 8.45705 |
| K 766.491 | 2.0832 | ppb | 0.5405 | 25.9 | 336.438 | 2.08317 |
| Mg 279.078 | 2.5945 | ppb | 0.2943 | 11.3 | 30.5428 | 2.59451 |
| Mn 257.610 | 0.8110 | ppb | 0.0530 | 6.5 | 195.806 | 0.81100 |
| Mo 202.032 | 0.9775 | ppb | 0.2852 | 29.2 | 13.0835 | 0.97748 |
| Na 330.237 | 24.9326 | ppb | 25.8829 | 103.8 | 26.8665 | 24.93262 |
| Ni 231.604 | 0.4850 | ppb | 0.3235 | 66.7 | -4.1176 | 0.48495 |
| Pb 220.353 | 1.4582 | ppb | 0.8470 | 58.1 | 11.7858 | 1.45819 |
| Sb 206.834 | 3.6217 | ppb | 0.6295 | 17.4 | -0.4913 | 3.62169 |
| Se 196.026 | 0.3654 | ppb | 6.3309 | 1732.4 | 0.9402 | 0.36545 |
| Sn 189.925 | 1.3718 | ppb | 0.6286 | 45.8 | -4.7095 | 1.37179 |
| Sr 216.596 | 0.2875 | ppb | 0.0330 | 11.5 | 9.9092 | 0.28752 |
| Ti 334.941 | 0.1495 | ppb | 0.0453 | 30.3 | 11.9074 | 0.14952 |
| Tl 190.794 | 3.1506 | ppb | 1.4183 | 45.0 | -4.1670 | 3.15061 |
| V 292.401 | 0.4648 | ppb | 0.1519 | 32.7 | 0.6437 | 0.46475 |
| Zn 206.200 | 1.5171 | ppb | 0.3642 | 24.0 | 1.9068 | 1.51710 |

**680-106200-b-4-a (Samp)** **10/18/2014, 12:46:28 AM** **Rack 3, Tube 27**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -4.4078u | -4.2806u | -3.9906u |
| Al 308.215 | 134580 | 134731 | 134463 |
| As 188.980 | 235.237 | 241.762 | 233.011 |
| B 249.678 | 17.1301u | 17.5117u | 18.2069u |
| Ba 389.178 | 259.310 | 259.485 | 258.940 |
| Be 313.042 | 6.4909 | 6.4778 | 6.4731 |
| Ca 370.602 | 34909 | 34807 | 34687 |
| Cd 226.502 | -5.4136 | -5.3496 | -4.7903 |
| Co 228.615 | 145.048 | 143.131 | 143.788 |
| Cr 267.716 | 406.581 | 406.670 | 405.331 |
| Cu 324.754 | 276.811 | 276.910 | 276.248 |
| Fe 271.441 | 340585 | 339968 | 339864 |
| K 766.491 | 7677.42 | 7682.12 | 7651.35 |
| Mg 279.078 | 13942.2 | 13929.2 | 13960.8 |
| Mn 257.610 | 2521.07 | 2529.17 | 2537.13 |
| Mo 202.032 | 13.0900 | 12.2608 | 12.3183 |
| Na 330.237 | 270.775u | 230.917u | 24.8716u |
| Ni 231.604 | 120.646 | 122.469 | 122.477 |
| Pb 220.353 | 251.480 | 255.386 | 252.160 |
| Sb 206.834 | -5.5641 | -7.2261 | -6.6400 |
| Se 196.026 | -4.9568 | 4.9808 | 7.0536 |
| Sn 189.925 | 22.9172 | 29.7130 | 26.6878 |
| Sr 216.596 | 118.606 | 119.329 | 119.446 |
| Ti 334.941 | 1035.42 | 1033.87 | 1031.82 |
| Tl 190.794 | -1.3268u | -2.5541u | -4.6300u |
| V 292.401 | 508.615 | 507.025 | 505.967 |
| Zn 206.200 | 392.450 | 392.621 | 393.608 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -4.2263 | ppb | 0.2138 | 5.1 | -415.575 |
| Al 308.215 | 134591 | ppb | 134.363 | 0.1 | 903487 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 236.670 | ppb | 4.5482 | 1.9 | 153.240 |
| B 249.678 | 17.6162 | ppb | 0.5460 | 3.1 | -452.496 |
| Ba 389.178 | 259.245 | ppb | 0.2785 | 0.1 | 5700.33 |
| Be 313.042 | 6.4806 | ppb | 0.0092 | 0.1 | 11525.6 |
| Ca 370.602 | 34801 | ppb | 111.4 | 0.3 | 97336 |
| Cd 226.502 | -5.1845 | ppb | 0.3429 | 6.6 | 1047.34 |
| Co 228.615 | 143.989 | ppb | 0.9738 | 0.7 | 1746.12 |
| Cr 267.716 | 406.194 | ppb | 0.7487 | 0.2 | 22574.4 |
| Cu 324.754 | 276.656 | ppb | 0.3572 | 0.1 | 20887.3 |
| Fe 271.441 | 340139 | ppb | 389.764 | 0.1 | 535928 |
| K 766.491 | 7670.30 | ppb | 16.5785 | 0.2 | 343807 |
| Mg 279.078 | 13944.1 | ppb | 15.8925 | 0.1 | 37901.8 |
| Mn 257.610 | 2529.12 | ppb | 8.0295 | 0.3 | 498488 |
| Mo 202.032 | 12.5564 | ppb | 0.4630 | 3.7 | 75.7156 |
| Na 330.237 | 175.521 | ppb | 131.980 | 75.2 | -52.5575 |
| Ni 231.604 | 121.864 | ppb | 1.0548 | 0.9 | 404.495 |
| Pb 220.353 | 253.009 | ppb | 2.0866 | 0.8 | 429.480 |
| Sb 206.834 | -6.4768 | ppb | 0.8429 | 13.0 | 0.6873 |
| Se 196.026 | 2.3592 | ppb | 6.4201 | 272.1 | 5.6451 |
| Sn 189.925 | 26.4393 | ppb | 3.4047 | 12.9 | 14.2788 |
| Sr 216.596 | 119.127 | ppb | 0.4548 | 0.4 | 1904.58 |
| Ti 334.941 | 1033.70 | ppb | 1.8057 | 0.2 | 301319 |
| Tl 190.794 | -2.8370 | ppb | 1.6697 | 58.9 | -54.9554 |
| V 292.401 | 507.202 | ppb | 1.3325 | 0.3 | 13354.4 |
| Zn 206.200 | 392.893 | ppb | 0.6247 | 0.2 | 414.839 |

**680-106200-b-38-a (Samp)** **10/18/2014, 12:50:45 AM** **Rack 3, Tube 28**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.3912u | 0.4985u | 0.4567u |
| Al 308.215 | 71523.7 | 71523.8 | 71507.4 |
| As 188.980 | 400.275 | 397.210 | 392.726 |
| B 249.678 | 37.9273 | 38.5434 | 37.6840 |
| Ba 389.178 | 2656.93 | 2657.58 | 2658.23 |
| Be 313.042 | 12.7145 | 12.7070 | 12.7092 |
| Ca 370.602 | 63515 | 63639 | 63695 |
| Cd 226.502 | -2.3248 | -2.5334 | -2.8565 |
| Co 228.615 | 105.665 | 105.366 | 104.949 |
| Cr 267.716 | 120.105 | 120.179 | 120.209 |
| Cu 324.754 | 489.770 | 493.485 | 489.188 |
| Fe 271.441 | 262738 | 262573 | 262460 |
| K 766.491 | 7269.76 | 7267.68 | 7265.32 |
| Mg 279.078 | 7874.23 | 7869.94 | 7872.65 |
| Mn 257.610 | 2211.22 | 2214.20 | 2218.38 |
| Mo 202.032 | 110.372 | 109.257 | 110.738 |
| Na 330.237 | 1008.72u | 1099.81u | 1133.13u |
| Ni 231.604 | 243.286 | 243.132 | 241.539 |
| Pb 220.353 | 229.712 | 222.399 | 221.147 |
| Sb 206.834 | 14.7795 | 7.8689 | 10.9819 |
| Se 196.026 | 14.5165 | 17.4300 | 16.2167 |
| Sn 189.925 | 29.3341 | 25.7457 | 29.9172 |
| Sr 216.596 | 967.483 | 968.189 | 968.463 |
| Ti 334.941 | 2737.72 | 2731.84 | 2739.00 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -0.3818u | -2.0006u | 2.9933u |
| V 292.401 | 324.231 | 324.800 | 325.239 |
| Zn 206.200 | 727.829 | 727.046 | 726.616 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.4488 | ppb | 0.0541 | 12.1 | -35.4286 |
| Al 308.215 | 71518.3 | ppb | 9.4274 | 0.0 | 480522 |
| As 188.980 | 396.737 | ppb | 3.7968 | 1.0 | 260.781 |
| B 249.678 | 38.0516 | ppb | 0.4429 | 1.2 | 69.4954 |
| Ba 389.178 | 2657.58 | ppb | 0.6471 | 0.0 | 57279.0 |
| Be 313.042 | 12.7102 | ppb | 0.0039 | 0.0 | 22780.2 |
| Ca 370.602 | 63616 | ppb | 92.34 | 0.1 | 182627 |
| Cd 226.502 | -2.5716 | ppb | 0.2679 | 10.4 | 870.135 |
| Co 228.615 | 105.327 | ppb | 0.3596 | 0.3 | 1320.23 |
| Cr 267.716 | 120.165 | ppb | 0.0535 | 0.0 | 6792.33 |
| Cu 324.754 | 490.814 | ppb | 2.3309 | 0.5 | 36731.2 |
| Fe 271.441 | 262591 | ppb | 139.650 | 0.1 | 413744 |
| K 766.491 | 7267.59 | ppb | 2.2242 | 0.0 | 325769 |
| Mg 279.078 | 7872.27 | ppb | 2.1672 | 0.0 | 21392.8 |
| Mn 257.610 | 2214.60 | ppb | 3.5974 | 0.2 | 436374 |
| Mo 202.032 | 110.122 | ppb | 0.7716 | 0.7 | 747.412 |
| Na 330.237 | 1080.55 | ppb | 64.3998 | 6.0 | -5.9163 |
| Ni 231.604 | 242.652 | ppb | 0.9671 | 0.4 | 775.621 |
| Pb 220.353 | 224.420 | ppb | 4.6264 | 2.1 | 378.789 |
| Sb 206.834 | 11.2101 | ppb | 3.4609 | 30.9 | 18.3273 |
| Se 196.026 | 16.0544 | ppb | 1.4635 | 9.1 | 11.2948 |
| Sn 189.925 | 28.3323 | ppb | 2.2590 | 8.0 | 15.7130 |
| Sr 216.596 | 968.045 | ppb | 0.5052 | 0.1 | 12323.7 |
| Ti 334.941 | 2736.19 | ppb | 3.8223 | 0.1 | 797494 |
| Tl 190.794 | 0.2036 | ppb | 2.5479 | 1251.1 | -41.8043 |
| V 292.401 | 324.757 | ppb | 0.5053 | 0.2 | 8583.68 |
| Zn 206.200 | 727.164 | ppb | 0.6150 | 0.1 | 786.680 |

**680-106200-b-8-a (Samp)** **10/18/2014, 12:55:02 AM** **Rack 3, Tube 29**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -3.1021u | -3.0843u | -3.1129u |
| Al 308.215 | 146028 | 146033 | 146228 |
| As 188.980 | 298.047 | 303.777 | 296.612 |
| B 249.678 | 9.8269u | 10.5758u | 10.8207u |
| Ba 389.178 | 1412.52 | 1414.39 | 1416.11 |
| Be 313.042 | 11.4153 | 11.4151 | 11.4172 |
| Ca 370.602 | 56363 | 56247 | 56126 |
| Cd 226.502 | -7.8515 | -7.4205 | -6.8263 |
| Co 228.615 | 169.961 | 169.807 | 169.669 |
| Cr 267.716 | 543.120 | 543.281 | 543.110 |
| Cu 324.754 | 164.511 | 162.525 | 162.358 |
| Fe 271.441 | 734545 | 733157 | 734168 |
| K 766.491 | 5336.94 | 5340.40 | 5339.56 |
| Mg 279.078 | 17979.2 | 17962.1 | 18002.8 |
| Mn 257.610 | 12322.5 | 12319.1 | 12295.6 |
| Mo 202.032 | 19.4713 | 19.9118 | 19.0005 |
| Na 330.237 | 174.603u | 314.909u | 163.217u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 99.2816 | 101.470 | 99.9998 |
| Pb 220.353 | 389.909 | 390.876 | 391.449 |
| Sb 206.834 | -7.8320 | -9.6718 | -12.1352 |
| Se 196.026 | 9.1864 | -2.0687 | -1.4971 |
| Sn 189.925 | 32.8625 | 25.4216 | 32.5371 |
| Sr 216.596 | 144.188 | 142.083 | 142.540 |
| Ti 334.941 | 1139.58 | 1139.87 | 1139.39 |
| Tl 190.794 | -5.5341u | -10.5306u | -10.8806u |
| V 292.401 | 887.696 | 885.672 | 883.842 |
| Zn 206.200 | 511.905 | 513.100 | 511.468 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -3.0998 | ppb | 0.0144 | 0.5 | -334.652 |
| Al 308.215 | 146096 | ppb | 113.794 | 0.1 | 981320 |
| As 188.980 | 299.478 | ppb | 3.7911 | 1.3 | 193.031 |
| B 249.678 | 10.4078 | ppb | 0.5178 | 5.0 | -1485.97 |
| Ba 389.178 | 1414.34 | ppb | 1.7944 | 0.1 | 30780.7 |
| Be 313.042 | 11.4159 | ppb | 0.0012 | 0.0 | 20468.3 |
| Ca 370.602 | 56245 | ppb | 118.4 | 0.2 | 155026 |
| Cd 226.502 | -7.3661 | ppb | 0.5148 | 7.0 | 2409.79 |
| Co 228.615 | 169.812 | ppb | 0.1460 | 0.1 | 2079.50 |
| Cr 267.716 | 543.170 | ppb | 0.0959 | 0.0 | 30353.8 |
| Cu 324.754 | 163.131 | ppb | 1.1982 | 0.7 | 12640.4 |
| Fe 271.441 | 733957 | ppb | 717.678 | 0.1 | 1156395 |
| K 766.491 | 5338.97 | ppb | 1.8019 | 0.0 | 239384 |
| Mg 279.078 | 17981.4 | ppb | 20.4049 | 0.1 | 48683.4 |
| Mn 257.610 | 12312.4 | ppb | 14.6468 | 0.1 | 2423766 |
| Mo 202.032 | 19.4612 | ppb | 0.4557 | 2.3 | 103.957 |
| Na 330.237 | 217.576 | ppb | 84.4850 | 38.8 | -140.580 |
| Ni 231.604 | 100.250 | ppb | 1.1155 | 1.1 | 370.765 |
| Pb 220.353 | 390.745 | ppb | 0.7783 | 0.2 | 674.896 |
| Sb 206.834 | -9.8797 | ppb | 2.1591 | 21.9 | 10.1738 |
| Se 196.026 | 1.8735 | ppb | 6.3396 | 338.4 | 11.4695 |
| Sn 189.925 | 30.2737 | ppb | 4.2052 | 13.9 | 17.1825 |
| Sr 216.596 | 142.937 | ppb | 1.1074 | 0.8 | 2685.56 |
| Ti 334.941 | 1139.61 | ppb | 0.2381 | 0.0 | 332241 |
| Tl 190.794 | -8.9818 | ppb | 2.9909 | 33.3 | -109.904 |
| V 292.401 | 885.737 | ppb | 1.9277 | 0.2 | 23377.8 |
| Zn 206.200 | 512.158 | ppb | 0.8445 | 0.2 | 527.115 |

**680-106200-b-25-a (Samp)** **10/18/2014, 12:59:19 AM** **Rack 3, Tube 30**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -4.0264u | -4.0822u | -4.2595u |
| Al 308.215 | 150909 | 151060 | 150716 |
| As 188.980 | 312.536 | 320.567 | 300.292 |
| B 249.678 | 13.1403u | 13.3645u | 12.4649u |
| Ba 389.178 | 589.876 | 589.822 | 587.934 |
| Be 313.042 | 10.0066 | 10.0005 | 10.0120 |
| Ca 370.602 | 45861 | 45797 | 45857 |
| Cd 226.502 | -3.4280 | -3.7506 | -4.1656 |
| Co 228.615 | 163.400 | 164.662 | 162.834 |
| Cr 267.716 | 343.559 | 342.702 | 342.747 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 277.465 | 277.382 | 277.769 |
| Fe 271.441 | 411403 | 411137 | 411261 |
| K 766.491 | 7090.89 | 7114.47 | 7105.10 |
| Mg 279.078 | 24404.0 | 24400.9 | 24364.2 |
| Mn 257.610 | 9863.92 | 9839.79 | 9864.81 |
| Mo 202.032 | 15.3611 | 16.2917 | 15.1111 |
| Na 330.237 | 122.355u | 147.685u | 210.246u |
| Ni 231.604 | 138.723 | 140.221 | 138.508 |
| Pb 220.353 | 377.272 | 367.087 | 365.365 |
| Sb 206.834 | -7.4795 | -12.4191u | -5.4557 |
| Se 196.026 | -2.0634 | 11.6544 | 7.0246 |
| Sn 189.925 | 31.2004 | 32.0521 | 36.6815 |
| Sr 216.596 | 109.936 | 109.383 | 108.615 |
| Ti 334.941 | 1178.70 | 1178.39 | 1178.04 |
| Tl 190.794 | -4.1860u | -4.8052u | 0.5663u |
| V 292.401 | 611.316 | 609.712 | 610.680 |
| Zn 206.200 | 578.477 | 574.631 | 573.604 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -4.1227 | ppb | 0.1217 | 3.0 | -378.638 |
| Al 308.215 | 150895 | ppb | 172.195 | 0.1 | 1012913 |
| As 188.980 | 311.132 | ppb | 10.2103 | 3.3 | 203.062 |
| B 249.678 | 12.9899 | ppb | 0.4683 | 3.6 | -695.245 |
| Ba 389.178 | 589.211 | ppb | 1.1062 | 0.2 | 12855.7 |
| Be 313.042 | 10.0064 | ppb | 0.0058 | 0.1 | 17911.7 |
| Ca 370.602 | 45838 | ppb | 35.57 | 0.1 | 128738 |
| Cd 226.502 | -3.7814 | ppb | 0.3698 | 9.8 | 1370.10 |
| Co 228.615 | 163.632 | ppb | 0.9356 | 0.6 | 1984.85 |
| Cr 267.716 | 343.003 | ppb | 0.4821 | 0.1 | 19167.3 |
| Cu 324.754 | 277.539 | ppb | 0.2034 | 0.1 | 20982.3 |
| Fe 271.441 | 411267 | ppb | 133.125 | 0.0 | 647994 |
| K 766.491 | 7103.49 | ppb | 11.8733 | 0.2 | 318419 |
| Mg 279.078 | 24389.7 | ppb | 22.1576 | 0.1 | 66190.6 |
| Mn 257.610 | 9856.17 | ppb | 14.1949 | 0.1 | 1939850 |
| Mo 202.032 | 15.5880 | ppb | 0.6221 | 4.0 | 92.9775 |
| Na 330.237 | 160.095 | ppb | 45.2406 | 28.3 | -73.6071 |
| Ni 231.604 | 139.150 | ppb | 0.9332 | 0.7 | 464.658 |
| Pb 220.353 | 369.908 | ppb | 6.4352 | 1.7 | 619.754 |
| Sb 206.834 | -8.4514 | ppb | 3.5820 | 42.4 | -0.5628 |
| Se 196.026 | 5.5385 | ppb | 6.9786 | 126.0 | 9.6091 |
| Sn 189.925 | 33.3113 | ppb | 2.9496 | 8.9 | 19.4842 |
| Sr 216.596 | 109.311 | ppb | 0.6638 | 0.6 | 1873.39 |
| Ti 334.941 | 1178.38 | ppb | 0.3259 | 0.0 | 343513 |
| Tl 190.794 | -2.8083 | ppb | 2.9389 | 104.6 | -60.4846 |
| V 292.401 | 610.569 | ppb | 0.8080 | 0.1 | 16084.3 |
| Zn 206.200 | 575.571 | ppb | 2.5686 | 0.4 | 612.445 |

**680-106200-b-17-a (Samp)** **10/18/2014, 1:03:37 AM** **Rack 3, Tube 31**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 1.6930 | 1.3440 | 1.0608 |
| Al 308.215 | 123328 | 123586 | 123480 |
| As 188.980 | 300.332 | 304.644 | 292.554 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 80.3486 | 80.7484 | 81.4450 |
| Ba 389.178 | 2981.82 | 2984.35 | 2985.33 |
| Be 313.042 | 14.2065 | 14.2302 | 14.2106 |
| Ca 370.602 | 137941 | 137320 | 137105 |
| Cd 226.502 | 6.6201 | 6.9219 | 7.2560 |
| Co 228.615 | 100.152 | 99.5568 | 100.046 |
| Cr 267.716 | 312.598 | 312.280 | 312.549 |
| Cu 324.754 | 544.996 | 542.431 | 545.665 |
| Fe 271.441 | 423485 | 422923 | 423408 |
| K 766.491 | 12528.9 | 12550.7 | 12566.9 |
| Mg 279.078 | 16562.4 | 16570.0 | 16568.9 |
| Mn 257.610 | 11758.1 | 11713.4 | 11695.9 |
| Mo 202.032 | 20.1330 | 19.6136 | 20.6112 |
| Na 330.237 | 1811.71u | 2021.71u | 1945.92u |
| Ni 231.604 | 144.135 | 148.811 | 144.921 |
| Pb 220.353 | 2293.38 | 2279.10 | 2286.14 |
| Sb 206.834 | 0.5294 | 7.5057 | 10.3565 |
| Se 196.026 | 3.5611 | 1.5942 | 3.2829 |
| Sn 189.925 | 173.726 | 178.020 | 177.690 |
| Sr 216.596 | 665.324 | 664.284 | 665.334 |
| Ti 334.941 | 2166.38 | 2162.10 | 2160.75 |
| Tl 190.794 | -4.1662u | -6.7818u | -3.0508u |
| V 292.401 | 384.106 | 382.956 | 383.250 |
| Zn 206.200 | 4515.67 | 4491.02 | 4499.76 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 1.3659 | ppb | 0.3167 | 23.2 | 77.3787 |
| Al 308.215 | 123464 | ppb | 129.733 | 0.1 | 829025 |
| As 188.980 | 299.177 | ppb | 6.1276 | 2.0 | 194.640 |
| B 249.678 | 80.8473 | ppb | 0.5549 | 0.7 | 410.474 |
| Ba 389.178 | 2983.83 | ppb | 1.8127 | 0.1 | 64399.2 |
| Be 313.042 | 14.2158 | ppb | 0.0127 | 0.1 | 25544.4 |
| Ca 370.602 | 137456 | ppb | 434.1 | 0.3 | 394814 |
| Cd 226.502 | 6.9327 | ppb | 0.3181 | 4.6 | 1867.25 |
| Co 228.615 | 99.9181 | ppb | 0.3174 | 0.3 | 1258.33 |
| Cr 267.716 | 312.476 | ppb | 0.1708 | 0.1 | 17506.7 |
| Cu 324.754 | 544.364 | ppb | 1.7071 | 0.3 | 40765.5 |
| Fe 271.441 | 423272 | ppb | 304.592 | 0.1 | 666897 |
| K 766.491 | 12548.8 | ppb | 19.0689 | 0.2 | 562323 |
| Mg 279.078 | 16567.1 | ppb | 4.1045 | 0.0 | 44850.7 |
| Mn 257.610 | 11722.5 | ppb | 32.0843 | 0.3 | 2306896 |
| Mo 202.032 | 20.1193 | ppb | 0.4989 | 2.5 | 123.666 |
| Na 330.237 | 1926.45 | ppb | 106.344 | 5.5 | -91.4486 |
| Ni 231.604 | 145.956 | ppb | 2.5037 | 1.7 | 487.153 |
| Pb 220.353 | 2286.21 | ppb | 7.1392 | 0.3 | 3642.24 |
| Sb 206.834 | 6.1305 | ppb | 5.0558 | 82.5 | 20.2779 |
| Se 196.026 | 2.8127 | ppb | 1.0644 | 37.8 | 8.9106 |
| Sn 189.925 | 176.478 | ppb | 2.3895 | 1.4 | 127.935 |
| Sr 216.596 | 664.981 | ppb | 0.6034 | 0.1 | 8803.15 |
| Ti 334.941 | 2163.07 | ppb | 2.9381 | 0.1 | 630495 |
| Tl 190.794 | -4.6663 | ppb | 1.9151 | 41.0 | -63.8160 |
| V 292.401 | 383.437 | ppb | 0.5976 | 0.2 | 10171.9 |
| Zn 206.200 | 4502.15 | ppb | 12.4967 | 0.3 | 4926.62 |

**680-106200-b-5-a (Samp)** **10/18/2014, 1:07:54 AM** **Rack 3, Tube 32**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -3.8771u | -3.9854u | -3.8895u |
| Al 308.215 | 134984 | 134742 | 135074 |
| As 188.980 | 288.433 | 297.115 | 293.718 |
| B 249.678 | 13.6057u | 14.4741u | 13.6792u |
| Ba 389.178 | 231.971 | 231.977 | 233.069 |
| Be 313.042 | 5.2295 | 5.2197 | 5.2175 |
| Ca 370.602 | 34253 | 34188 | 34200 |
| Cd 226.502 | -4.3344 | -4.6850 | -4.7768 |
| Co 228.615 | 116.995 | 116.841 | 118.048 |
| Cr 267.716 | 280.486 | 280.623 | 281.173 |
| Cu 324.754 | 267.603 | 269.358 | 270.613 |
| Fe 271.441 | 355969 | 355267 | 355554 |
| K 766.491 | 6332.42 | 6310.63 | 6325.87 |
| Mg 279.078 | 15327.1 | 15294.4 | 15311.8 |
| Mn 257.610 | 2237.15 | 2234.72 | 2235.39 |
| Mo 202.032 | 15.8230 | 16.2410 | 16.0990 |
| Na 330.237 | 179.968u | 37.6005u | 240.725u |
| Ni 231.604 | 121.465 | 123.126 | 120.920 |
| Pb 220.353 | 229.726 | 223.446 | 230.761 |
| Sb 206.834 | -6.1064 | -2.5483 | -7.7461 |
| Se 196.026 | -6.8159 | -5.4167 | 0.0332 |
| Sn 189.925 | 31.0920 | 33.1595 | 33.0699 |
| Sr 216.596 | 98.7354 | 99.3207 | 99.7358 |
| Ti 334.941 | 1161.11 | 1158.38 | 1161.28 |
| Tl 190.794 | -3.6444u | 2.7692u | 2.4998u |
| V 292.401 | 532.747 | 533.349 | 532.897 |
| Zn 206.200 | 415.493 | 412.974 | 416.213 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -3.9173 | ppb | 0.0593 | 1.5 | -392.585 |
| Al 308.215 | 134934 | ppb | 171.621 | 0.1 | 905812 |
| As 188.980 | 293.089 | ppb | 4.3753 | 1.5 | 191.115 |
| B 249.678 | 13.9197 | ppb | 0.4816 | 3.5 | -551.231 |
| Ba 389.178 | 232.339 | ppb | 0.6319 | 0.3 | 5131.65 |
| Be 313.042 | 5.2222 | ppb | 0.0064 | 0.1 | 9249.51 |
| Ca 370.602 | 34214 | ppb | 34.44 | 0.1 | 95486 |
| Cd 226.502 | -4.5987 | ppb | 0.2334 | 5.1 | 1130.87 |
| Co 228.615 | 117.295 | ppb | 0.6572 | 0.6 | 1435.82 |
| Cr 267.716 | 280.761 | ppb | 0.3633 | 0.1 | 15674.8 |
| Cu 324.754 | 269.191 | ppb | 1.5118 | 0.6 | 20340.7 |
| Fe 271.441 | 355596 | ppb | 352.882 | 0.1 | 560278 |
| K 766.491 | 6322.98 | ppb | 11.1829 | 0.2 | 283459 |
| Mg 279.078 | 15311.1 | ppb | 16.3818 | 0.1 | 41630.8 |
| Mn 257.610 | 2235.75 | ppb | 1.2532 | 0.1 | 440841 |
| Mo 202.032 | 16.0543 | ppb | 0.2126 | 1.3 | 98.8721 |
| Na 330.237 | 152.765 | ppb | 104.259 | 68.2 | -57.8955 |
| Ni 231.604 | 121.837 | ppb | 1.1488 | 0.9 | 405.847 |
| Pb 220.353 | 227.978 | ppb | 3.9586 | 1.7 | 390.844 |
| Sb 206.834 | -5.4669 | ppb | 2.6573 | 48.6 | 1.1515 |
| Se 196.026 | -4.0665 | ppb | 3.6187 | 89.0 | 2.7038 |
| Sn 189.925 | 32.4405 | ppb | 1.1687 | 3.6 | 18.8246 |
| Sr 216.596 | 99.2640 | ppb | 0.5026 | 0.5 | 1678.14 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 1160.26 | ppb | 1.6290 | 0.1 | 338208 |
| Tl 190.794 | 0.5415 | ppb | 3.6276 | 669.9 | -53.5505 |
| V 292.401 | 532.998 | ppb | 0.3135 | 0.1 | 14040.6 |
| Zn 206.200 | 414.893 | ppb | 1.7008 | 0.4 | 438.666 |

**680-106200-b-3-a (Samp)** **10/18/2014, 1:12:12 AM** **Rack 3, Tube 33**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -5.2584u | -5.6043u | -4.9114u |
| Al 308.215 | 111767 | 111482 | 111648 |
| As 188.980 | 211.043 | 209.375 | 213.597 |
| B 249.678 | 12.7741u | 13.2225u | 13.9025u |
| Ba 389.178 | 292.922 | 292.116 | 293.264 |
| Be 313.042 | 7.0961 | 7.0581 | 7.0521 |
| Ca 370.602 | 45899 | 45688 | 45644 |
| Cd 226.502 | -4.3907 | -4.5026 | -4.2108 |
| Co 228.615 | 222.308 | 220.817 | 220.722 |
| Cr 267.716 | 212.645 | 212.086 | 211.876 |
| Cu 324.754 | 231.840 | 229.810 | 229.038 |
| Fe 271.441 | 370868 | 370112 | 369887 |
| K 766.491 | 6174.22 | 6157.15 | 6133.85 |
| Mg 279.078 | 16586.9 | 16543.2 | 16575.1 |
| Mn 257.610 | 3239.28 | 3221.53 | 3215.05 |
| Mo 202.032 | 14.6806 | 14.7382 | 14.5646 |
| Na 330.237 | 305.498u | 242.362u | 86.8938u |
| Ni 231.604 | 131.169 | 128.819 | 132.156 |
| Pb 220.353 | 308.608 | 301.137 | 305.450 |
| Sb 206.834 | -1.4983 | -10.2769u | -10.7745u |
| Se 196.026 | 6.7889 | 6.8072 | 5.4255 |
| Sn 189.925 | 550.784 | 547.420 | 556.988 |
| Sr 216.596 | 121.704 | 121.068 | 121.121 |
| Ti 334.941 | 990.698 | 986.883 | 986.158 |
| Tl 190.794 | -1.9546u | -0.6953u | -2.8750u |
| V 292.401 | 397.189 | 393.041 | 393.299 |
| Zn 206.200 | 393.962 | 391.141 | 393.243 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -5.2580 | ppb | 0.3464 | 6.6 | -505.400 |
| Al 308.215 | 111633 | ppb | 142.917 | 0.1 | 749620 |
| As 188.980 | 211.338 | ppb | 2.1263 | 1.0 | 135.749 |
| B 249.678 | 13.2997 | ppb | 0.5681 | 4.3 | -596.168 |
| Ba 389.178 | 292.767 | ppb | 0.5896 | 0.2 | 6441.79 |
| Be 313.042 | 7.0688 | ppb | 0.0238 | 0.3 | 12584.9 |
| Ca 370.602 | 45744 | ppb | 136.7 | 0.3 | 128694 |
| Cd 226.502 | -4.3681 | ppb | 0.1472 | 3.4 | 1195.67 |
| Co 228.615 | 221.283 | ppb | 0.8893 | 0.4 | 2654.74 |
| Cr 267.716 | 212.202 | ppb | 0.3976 | 0.2 | 11913.6 |
| Cu 324.754 | 230.229 | ppb | 1.4474 | 0.6 | 17461.8 |
| Fe 271.441 | 370289 | ppb | 513.719 | 0.1 | 583438 |
| K 766.491 | 6155.07 | ppb | 20.2659 | 0.3 | 275938 |
| Mg 279.078 | 16568.4 | ppb | 22.5950 | 0.1 | 45042.8 |
| Mn 257.610 | 3225.29 | ppb | 12.5410 | 0.4 | 635513 |
| Mo 202.032 | 14.6611 | ppb | 0.0884 | 0.6 | 88.7878 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 211.584 | ppb | 112.505 | 53.2 | -57.6995 |
| Ni 231.604 | 130.715 | ppb | 1.7143 | 1.3 | 434.623 |
| Pb 220.353 | 305.065 | ppb | 3.7502 | 1.2 | 513.925 |
| Sb 206.834 | -7.5166 | ppb | 5.2179 | 69.4 | -1.9093 |
| Se 196.026 | 6.3405 | ppb | 0.7925 | 12.5 | 7.9893 |
| Sn 189.925 | 551.731 | ppb | 4.8539 | 0.9 | 412.192 |
| Sr 216.596 | 121.298 | ppb | 0.3528 | 0.3 | 1973.68 |
| Ti 334.941 | 987.913 | ppb | 2.4389 | 0.2 | 287980 |
| Tl 190.794 | -1.8416 | ppb | 1.0942 | 59.4 | -57.6135 |
| V 292.401 | 394.510 | ppb | 2.3235 | 0.6 | 10429.5 |
| Zn 206.200 | 392.782 | ppb | 1.4659 | 0.4 | 413.895 |

**680-106200-b-28-a (Samp)** **10/18/2014, 1:16:29 AM** **Rack 3, Tube 34**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -2.2103u | -2.1551u | -2.2694u |
| Al 308.215 | 104899 | 104971 | 104713 |
| As 188.980 | 375.944 | 379.153 | 379.373 |
| B 249.678 | 9.1598u | 9.7162u | 9.1164u |
| Ba 389.178 | 486.748 | 486.274 | 486.226 |
| Be 313.042 | 4.0847 | 4.0727 | 4.0760 |
| Ca 370.602 | 16398 | 16385 | 16358 |
| Cd 226.502 | -5.0709 | -4.8873 | -4.8842 |
| Co 228.615 | 51.6412 | 50.9348 | 51.5397 |
| Cr 267.716 | 206.946 | 207.056 | 206.379 |
| Cu 324.754 | 224.618 | 223.117 | 222.028 |
| Fe 271.441 | 366640 | 366329 | 366234 |
| K 766.491 | 5550.07 | 5571.68 | 5555.34 |
| Mg 279.078 | 6999.16 | 7011.28 | 7006.93 |
| Mn 257.610 | 3940.96 | 3937.13 | 3918.31 |
| Mo 202.032 | 15.9659 | 15.4021 | 16.2699 |
| Na 330.237 | 141.094u | 524.053u | 200.389u |
| Ni 231.604 | 73.9863 | 75.6965 | 72.2298 |
| Pb 220.353 | 231.046 | 233.605 | 231.694 |
| Sb 206.834 | -3.9139 | -3.7281 | -4.8857 |
| Se 196.026 | 13.8792 | 6.5186 | -4.4602 |
| Sn 189.925 | 26.0533 | 26.3703 | 23.0073 |
| Sr 216.596 | 63.1623 | 65.4384 | 63.5928 |
| Ti 334.941 | 1047.21 | 1047.79 | 1045.85 |
| Tl 190.794 | -3.3215u | -5.9761u | -0.3915u |
| V 292.401 | 520.363 | 520.453 | 518.254 |
| Zn 206.200 | 334.680 | 335.709 | 333.620 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -2.2116 | ppb | 0.0571 | 2.6 | -238.355 |
| Al 308.215 | 104861 | ppb | 133.194 | 0.1 | 704232 |
| As 188.980 | 378.157 | ppb | 1.9192 | 0.5 | 247.973 |
| B 249.678 | 9.3308 | ppb | 0.3344 | 3.6 | -653.536 |
| Ba 389.178 | 486.416 | ppb | 0.2885 | 0.1 | 10595.5 |
| Be 313.042 | 4.0778 | ppb | 0.0062 | 0.2 | 7168.13 |
| Ca 370.602 | 16380 | ppb | 20.24 | 0.1 | 43621 |
| Cd 226.502 | -4.9475 | ppb | 0.1069 | 2.2 | 1156.84 |
| Co 228.615 | 51.3719 | ppb | 0.3820 | 0.7 | 659.160 |

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| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 206.794 | ppb | 0.3635 | 0.2 | 11616.2 |
| Cu 324.754 | 223.254 | ppb | 1.3003 | 0.6 | 16941.3 |
| Fe 271.441 | 366401 | ppb | 212.459 | 0.1 | 577292 |
| K 766.491 | 5559.03 | ppb | 11.2704 | 0.2 | 249241 |
| Mg 279.078 | 7005.79 | ppb | 6.1423 | 0.1 | 18981.5 |
| Mn 257.610 | 3932.13 | ppb | 12.1227 | 0.3 | 774458 |
| Mo 202.032 | 15.8793 | ppb | 0.4403 | 2.8 | 97.1669 |
| Na 330.237 | 288.512 | ppb | 206.128 | 71.4 | -52.1361 |
| Ni 231.604 | 73.9709 | ppb | 1.7334 | 2.3 | 257.250 |
| Pb 220.353 | 232.115 | ppb | 1.3305 | 0.6 | 398.914 |
| Sb 206.834 | -4.1759 | ppb | 0.6217 | 14.9 | 2.4861 |
| Se 196.026 | 5.3125 | ppb | 9.2290 | 173.7 | 7.6422 |
| Sn 189.925 | 25.1436 | ppb | 1.8569 | 7.4 | 13.2972 |
| Sr 216.596 | 64.0645 | ppb | 1.2091 | 1.9 | 1250.02 |
| Ti 334.941 | 1046.95 | ppb | 0.9974 | 0.1 | 305170 |
| Tl 190.794 | -3.2297 | ppb | 2.7934 | 86.5 | -58.5847 |
| V 292.401 | 519.690 | ppb | 1.2447 | 0.2 | 13698.6 |
| Zn 206.200 | 334.670 | ppb | 1.0442 | 0.3 | 350.238 |

**680-106200-b-2-a (Samp)** **10/18/2014, 1:20:47 AM** **Rack 3, Tube 35**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.6273 | 0.6421 | 1.1201 |
| Al 308.215 | 134367 | 134545 | 134792 |
| As 188.980 | 263.614 | 268.867 | 260.107 |
| B 249.678 | 82.8764 | 84.0349 | 84.0925 |
| Ba 389.178 | 2994.31 | 2993.76 | 2989.71 |
| Be 313.042 | 16.3733 | 16.3733 | 16.3776 |
| Ca 370.602 | 159446 | 159003 | 158753 |
| Cd 226.502 | 9.4831 | 9.6491 | 10.0509 |
| Co 228.615 | 97.4052 | 96.8809 | 96.6822 |
| Cr 267.716 | 378.527 | 378.222 | 378.379 |
| Cu 324.754 | 529.572 | 530.656 | 528.811 |
| Fe 271.441 | 411701 | 413664 | 414016 |
| K 766.491 | 15019.3 | 15022.4 | 15035.6 |
| Mg 279.078 | 23550.2 | 23576.1 | 23614.8 |
| Mn 257.610 | 13616.6 | 13613.5 | 13637.7 |
| Mo 202.032 | 19.7098 | 20.3843 | 20.9805 |
| Na 330.237 | 1647.96u | 1686.63u | 1867.62u |
| Ni 231.604 | 123.961 | 123.975 | 124.945 |
| Pb 220.353 | 1898.46 | 1893.09 | 1907.54 |
| Sb 206.834 | 5.9432 | 2.7544 | 3.9281 |
| Se 196.026 | 6.0787 | 1.8024 | 3.9585 |
| Sn 189.925 | 164.146 | 171.133 | 170.176 |
| Sr 216.596 | 586.945 | 585.701 | 590.104 |
| Ti 334.941 | 1848.32 | 1849.45 | 1850.19 |
| Tl 190.794 | -5.1456u | 2.8507u | -5.1109u |
| V 292.401 | 553.504 | 555.064 | 554.777 |
| Zn 206.200 | 3788.66 | 3795.03 | 3798.93 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.7965 | ppb | 0.2803 | 35.2 | 44.1335 |
| Al 308.215 | 134568 | ppb | 213.617 | 0.2 | 903463 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 264.196 | ppb | 4.4090 | 1.7 | 171.281 |
| B 249.678 | 83.6679 | ppb | 0.6861 | 0.8 | 479.308 |
| Ba 389.178 | 2992.60 | ppb | 2.5138 | 0.1 | 64592.8 |
| Be 313.042 | 16.3748 | ppb | 0.0025 | 0.0 | 29469.7 |
| Ca 370.602 | 159067 | ppb | 350.7 | 0.2 | 457522 |
| Cd 226.502 | 9.7277 | ppb | 0.2919 | 3.0 | 1950.53 |
| Co 228.615 | 96.9894 | ppb | 0.3735 | 0.4 | 1216.47 |
| Cr 267.716 | 378.376 | ppb | 0.1524 | 0.0 | 21138.0 |
| Cu 324.754 | 529.679 | ppb | 0.9274 | 0.2 | 39670.5 |
| Fe 271.441 | 413127 | ppb | 1247.27 | 0.3 | 650916 |
| K 766.491 | 15025.8 | ppb | 8.6899 | 0.1 | 673270 |
| Mg 279.078 | 23580.4 | ppb | 32.4975 | 0.1 | 63908.0 |
| Mn 257.610 | 13622.6 | ppb | 13.1749 | 0.1 | 2680646 |
| Mo 202.032 | 20.3582 | ppb | 0.6357 | 3.1 | 125.549 |
| Na 330.237 | 1734.07 | ppb | 117.263 | 6.8 | -80.8228 |
| Ni 231.604 | 124.294 | ppb | 0.5638 | 0.5 | 418.608 |
| Pb 220.353 | 1899.70 | ppb | 7.3027 | 0.4 | 3032.70 |
| Sb 206.834 | 4.2086 | ppb | 1.6128 | 38.3 | 18.0115 |
| Se 196.026 | 3.9465 | ppb | 2.1381 | 54.2 | 9.8426 |
| Sn 189.925 | 168.485 | ppb | 3.7879 | 2.2 | 121.880 |
| Sr 216.596 | 587.583 | ppb | 2.2701 | 0.4 | 7843.97 |
| Ti 334.941 | 1849.32 | ppb | 0.9397 | 0.1 | 539061 |
| Tl 190.794 | -2.4686 | ppb | 4.6067 | 186.6 | -58.7057 |
| V 292.401 | 554.448 | ppb | 0.8306 | 0.1 | 14627.4 |
| Zn 206.200 | 3794.21 | ppb | 5.1871 | 0.1 | 4148.93 |

**680-106200-b-11-a (Samp)** **10/18/2014, 1:25:04 AM** **Rack 3, Tube 36**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -5.4087u | -5.3695u | -6.2668u |
| Al 308.215 | 143546 | 143819 | 143552 |
| As 188.980 | 567.913 | 558.497 | 577.332 |
| B 249.678 | 23.7080u | 23.1634u | 23.4484u |
| Ba 389.178 | 3419.95 | 3439.27 | 3420.51 |
| Be 313.042 | 11.8767 | 11.9104 | 11.8960 |
| Ca 370.602 | 76756 | 76902 | 76554 |
| Cd 226.502 | -3.9804 | -3.7975 | -3.4216 |
| Co 228.615 | 458.635 | 459.096 | 452.950 |
| Cr 267.716 | 283.753 | 284.381 | 283.968 |
| Cu 324.754 | 363.714 | 364.947 | 363.370 |
| Fe 271.441 | 537039 | 536906 | 536821 |
| K 766.491 | 7356.72 | 7357.17 | 7366.75 |
| Mg 279.078 | 25487.4 | 25575.0 | 25482.1 |
| Mn 257.610 | 33251.8x | 33269.5x | 33193.7x |
| Mo 202.032 | 31.0087 | 30.6135 | 29.5634 |
| Na 330.237 | 376.162u | 315.040u | -1.0789u |
| Ni 231.604 | 204.718 | 207.772 | 206.530 |
| Pb 220.353 | 913.967 | 918.542 | 907.481 |
| Sb 206.834 | -10.5001 | -8.4677 | -11.9973 |
| Se 196.026 | 4.1621 | -0.7525 | 2.8934 |
| Sn 189.925 | 29.4987 | 31.4820 | 34.0611 |
| Sr 216.596 | 175.307 | 175.453 | 175.793 |
| Ti 334.941 | 1269.59 | 1272.06 | 1270.19 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 3.4583u | 4.7547u | 7.8619u |
| V 292.401 | 605.984 | 607.019 | 605.276 |
| Zn 206.200 | 853.873 | 842.855 | 846.237 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -5.6817b | ppb | 0.5071 | 8.9 | -408.071 |
| Al 308.215 | 143639b | ppb | 156.059 | 0.1 | 964485 |
| As 188.980 | 567.914b | ppb | 9.4176 | 1.7 | 374.961 |
| B 249.678 | 23.4399b | ppb | 0.2724 | 1.2 | -815.510 |
| Ba 389.178 | 3426.57b | ppb | 10.9958 | 0.3 | 74003.4 |
| Be 313.042 | 11.8944b | ppb | 0.0169 | 0.1 | 21324.2 |
| Ca 370.602 | 76737b | ppb | 174.8 | 0.2 | 217477 |
| Cd 226.502 | -3.7331b | ppb | 0.2849 | 7.6 | 1841.92 |
| Co 228.615 | 456.894b | ppb | 3.4231 | 0.7 | 5441.67 |
| Cr 267.716 | 284.034b | ppb | 0.3190 | 0.1 | 16104.6 |
| Cu 324.754 | 364.010b | ppb | 0.8288 | 0.2 | 27446.8 |
| Fe 271.441 | 536922b | ppb | 110.186 | 0.0 | 845999 |
| K 766.491 | 7360.21b | ppb | 5.6631 | 0.1 | 329918 |
| Mg 279.078 | 25514.8b | ppb | 52.1937 | 0.2 | 68748.5 |
| Mn 257.610 | 33238.3xb | ppb | 39.6471 | 0.1 | 6539039 |
| Mo 202.032 | 30.3952b | ppb | 0.7470 | 2.5 | 188.327 |
| Na 330.237 | 230.041b | ppb | 202.475 | 88.0 | -105.152 |
| Ni 231.604 | 206.340b | ppb | 1.5358 | 0.7 | 685.008 |
| Pb 220.353 | 913.330b | ppb | 5.5581 | 0.6 | 1489.98 |
| Sb 206.834 | -10.3217b | ppb | 1.7716 | 17.2 | -0.0141 |
| Se 196.026 | 2.1010b | ppb | 2.5513 | 121.4 | 14.9628 |
| Sn 189.925 | 31.6806b | ppb | 2.2877 | 7.2 | 18.2486 |
| Sr 216.596 | 175.518b | ppb | 0.2494 | 0.1 | 2857.80 |
| Ti 334.941 | 1270.61b | ppb | 1.2875 | 0.1 | 370413 |
| Tl 190.794 | 5.3583b | ppb | 2.2630 | 42.2 | -55.1190 |
| V 292.401 | 606.093b | ppb | 0.8763 | 0.1 | 16014.7 |
| Zn 206.200 | 847.655b | ppb | 5.6444 | 0.7 | 905.681 |

**Cont Calib Verif (CCV)** **10/18/2014, 1:29:22 AM** **Rack 3, Tube 37**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 496.032 | 493.848 | 492.039 |
| Al 308.215 | 4874.84 | 4883.13 | 4874.90 |
| As 188.980 | 467.080 | 459.259 | 469.724 |
| B 249.678 | 479.473 | 483.744 | 486.887 |
| Ba 389.178 | 5035.47 | 5036.67 | 5033.87 |
| Be 313.042 | 493.565 | 495.703 | 493.622 |
| Ca 370.602 | 4684 | 4687 | 4697 |
| Cd 226.502 | 508.143 | 509.462 | 509.505 |
| Co 228.615 | 490.716 | 490.855 | 491.442 |
| Cr 267.716 | 4925.69 | 4922.47 | 4926.10 |
| Cu 324.754 | 4952.89 | 4946.78 | 4942.82 |
| Fe 271.441 | 4950.29 | 4961.06 | 4972.41 |
| K 766.491 | 9990.00 | 9982.48 | 9989.00 |
| Mg 279.078 | 4845.40 | 4860.54 | 4852.40 |
| Mn 257.610 | 4783.03 | 4768.11 | 4791.51 |
| Mo 202.032 | 489.304 | 491.621 | 490.961 |
| Na 330.237 | 7483.86 | 7838.99 | 7742.27 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 2511.21 | 2512.84 | 2512.68 |
| Pb 220.353 | 506.410 | 507.631 | 506.662 |
| Sb 206.834 | 942.844 | 947.028 | 945.095 |
| Se 196.026 | 4781.89 | 4784.76 | 4784.70 |
| Sn 189.925 | 4910.45 | 4972.84 | 4920.76 |
| Sr 216.596 | 2504.91 | 2512.51 | 2508.27 |
| Ti 334.941 | 494.011 | 494.545 | 493.068 |
| Tl 190.794 | 4931.32 | 4952.23 | 4948.71 |
| V 292.401 | 4751.29 | 4747.77 | 4751.78 |
| Zn 206.200 | 2446.04 | 2460.59 | 2469.80 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 493.973 | ppb | 1.9997 | 0.4 | 42096.4 | 98.79456 |
| Al 308.215 | 4877.62 | ppb | 4.7675 | 0.1 | 33825.1 | 97.55246 |
| As 188.980 | 465.354 | ppb | 5.4418 | 1.2 | 307.841 | 93.07087 |
| B 249.678 | 483.368 | ppb | 3.7215 | 0.8 | 8122.30 | 96.67360 |
| Ba 389.178 | 5035.34 | ppb | 1.4061 | 0.0 | 108335 | 100.70674 |
| Be 313.042 | 494.297 | ppb | 1.2185 | 0.2 | 894406 | 98.85935 |
| Ca 370.602 | 4689 | ppb | 6.686 | 0.1 | 13958 | 93.78457 |
| Cd 226.502 | 509.037 | ppb | 0.7744 | 0.2 | 21491.8 | 101.80730 |
| Co 228.615 | 491.005 | ppb | 0.3854 | 0.1 | 5782.76 | 98.20091 |
| Cr 267.716 | 4924.75 | ppb | 1.9869 | 0.0 | 271142 | 98.49509 |
| Cu 324.754 | 4947.50 | ppb | 5.0744 | 0.1 | 366847 | 98.94993 |
| Fe 271.441 | 4961.25 | ppb | 11.0564 | 0.2 | 7943.68 | 99.22509 |
| K 766.491 | 9987.16 | ppb | 4.0876 | 0.0 | 447583 | 99.87160 |
| Mg 279.078 | 4852.78 | ppb | 7.5802 | 0.2 | 13135.9 | 97.05555 |
| Mn 257.610 | 4780.88 | ppb | 11.8467 | 0.2 | 940396 | 95.61765 |
| Mo 202.032 | 490.629 | ppb | 1.1937 | 0.2 | 3359.02 | 98.12576 |
| Na 330.237 | 7688.37 | ppb | 183.599 | 2.4 | 311.127 | 102.51165 |
| Ni 231.604 | 2512.24 | ppb | 0.8947 | 0.0 | 7850.62 | 100.48974 |
| Pb 220.353 | 506.901 | ppb | 0.6447 | 0.1 | 813.074 | 101.38023 |
| Sb 206.834 | 944.989 | ppb | 2.0938 | 0.2 | 1394.95 | 94.49890 |
| Se 196.026 | 4783.79 | ppb | 1.6391 | 0.0 | 2253.65 | 95.67574 |
| Sn 189.925 | 4934.68 | ppb | 33.4461 | 0.7 | 3732.32 | 98.69366 |
| Sr 216.596 | 2508.57 | ppb | 3.8087 | 0.2 | 30984.0 | 100.34261 |
| Ti 334.941 | 493.875 | ppb | 0.7481 | 0.2 | 143920 | 98.77493 |
| Tl 190.794 | 4944.08 | ppb | 11.1950 | 0.2 | 5531.37 | 98.88168 |
| V 292.401 | 4750.28 | ppb | 2.1846 | 0.0 | 123774 | 95.00564 |
| Zn 206.200 | 2458.81 | ppb | 11.9835 | 0.5 | 2685.85 | 98.35239 |

**Cont Calib Blank (CCB)** **10/18/2014, 1:33:40 AM** **Rack 3, Tube 38**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1519 | -0.1269u | -0.2066u |
| Al 308.215 | -5.3534u | -4.5318u | -4.9990u |
| As 188.980 | -0.5723u | -2.0527u | 1.5896 |
| B 249.678 | 9.1806 | 7.9711 | 7.1170 |
| Ba 389.178 | 1.3994 | 0.9305 | 1.4818 |
| Be 313.042 | 0.0211 | 0.0113 | 0.0110 |
| Ca 370.602 | 7.808 | -2.103u | 0.8547 |
| Cd 226.502 | 0.1266 | 0.1942 | 0.1434 |
| Co 228.615 | 0.3636 | 0.0254 | 0.3756 |
| Cr 267.716 | 0.6619 | 0.7434 | 0.4922 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 1.2660 | 0.5592 | 0.8328 |
| Fe 271.441 | 22.0544 | 16.6637 | 18.7832 |
| K 766.491 | 2.3791 | 2.1024 | 1.5381 |
| Mg 279.078 | 1.1914 | 3.4886 | 0.7238 |
| Mn 257.610 | 1.7886 | 1.6229 | 1.5136 |
| Mo 202.032 | 1.1337 | 0.9857 | 0.7767 |
| Na 330.237 | -41.7263u | 142.663 | 47.3188 |
| Ni 231.604 | 1.2916 | -0.3146u | 0.5880 |
| Pb 220.353 | -1.2517u | 2.3897 | 0.7411 |
| Sb 206.834 | 4.4116 | 6.5515 | 0.9712 |
| Se 196.026 | -0.5381u | 1.7304 | -3.2005u |
| Sn 189.925 | 1.9173 | -1.1852u | 3.1892 |
| Sr 216.596 | 0.3539 | 0.0993 | 0.4986 |
| Ti 334.941 | 0.1949 | 0.1503 | 0.1130 |
| Tl 190.794 | 0.6356 | 3.0442 | 1.7594 |
| V 292.401 | 0.4417 | 0.6125 | 0.5338 |
| Zn 206.200 | 3.1172 | 1.4191 | -0.3439u |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | -0.0606 | ppb | 0.1883 | 310.9 | -12.0196 | -0.06056 |
| Al 308.215 | -4.9614 | ppb | 0.4121 | 8.3 | 570.091 | -4.96140 |
| As 188.980 | -0.3451 | ppb | 1.8317 | 530.7 | -5.4581 | -0.34513 |
| B 249.678 | 8.0896 | ppb | 1.0369 | 12.8 | 176.885 | 8.08956 |
| Ba 389.178 | 1.2706 | ppb | 0.2974 | 23.4 | -53.2321 | 1.27057 |
| Be 313.042 | 0.0145 | ppb | 0.0057 | 39.6 | -213.789 | 0.01451 |
| Ca 370.602 | 2.186 | ppb | 5.088 | 232.7 | 26.56 | 2.18635 |
| Cd 226.502 | 0.1547 | ppb | 0.0352 | 22.7 | 16.1100 | 0.15474 |
| Co 228.615 | 0.2549 | ppb | 0.1988 | 78.0 | 9.7953 | 0.25487 |
| Cr 267.716 | 0.6325 | ppb | 0.1281 | 20.3 | 69.2205 | 0.63249 |
| Cu 324.754 | 0.8860 | ppb | 0.3564 | 40.2 | 308.872 | 0.88601 |
| Fe 271.441 | 19.1671 | ppb | 2.7157 | 14.2 | 46.2970 | 19.16708 |
| K 766.491 | 2.0065 | ppb | 0.4287 | 21.4 | 333.006 | 2.00654 |
| Mg 279.078 | 1.8013 | ppb | 1.4799 | 82.2 | 28.3643 | 1.80128 |
| Mn 257.610 | 1.6417 | ppb | 0.1384 | 8.4 | 359.214 | 1.64170 |
| Mo 202.032 | 0.9654 | ppb | 0.1793 | 18.6 | 13.0002 | 0.96537 |
| Na 330.237 | 49.4185 | ppb | 92.2126 | 186.6 | 27.9751 | 49.41847 |
| Ni 231.604 | 0.5217 | ppb | 0.8051 | 154.3 | -4.0029 | 0.52166 |
| Pb 220.353 | 0.6264 | ppb | 1.8234 | 291.1 | 10.4751 | 0.62637 |
| Sb 206.834 | 3.9781 | ppb | 2.8153 | 70.8 | 0.0185 | 3.97810 |
| Se 196.026 | -0.6694 | ppb | 2.4681 | 368.7 | 0.4534 | -0.66941 |
| Sn 189.925 | 1.3071 | ppb | 2.2502 | 172.1 | -4.7585 | 1.30712 |
| Sr 216.596 | 0.3173 | ppb | 0.2021 | 63.7 | 10.3001 | 0.31725 |
| Ti 334.941 | 0.1527 | ppb | 0.0410 | 26.9 | 12.8285 | 0.15272 |
| Tl 190.794 | 1.8131 | ppb | 1.2052 | 66.5 | -5.6628 | 1.81309 |
| V 292.401 | 0.5294 | ppb | 0.0855 | 16.2 | 2.3267 | 0.52936 |
| Zn 206.200 | 1.3975 | ppb | 1.7307 | 123.8 | 1.7746 | 1.39749 |

**680-106200-b-33-a (Samp)** **10/18/2014, 1:37:58 AM** **Rack 3, Tube 39**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -2.8868u | -2.8462u | -2.9622u |
| Al 308.215 | 110146 | 110152 | 110055 |
| As 188.980 | 225.869 | 223.366 | 224.713 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 28.5158u | 28.5547u | 27.3976u |
| Ba 389.178 | 3279.84 | 3281.41 | 3282.81 |
| Be 313.042 | 16.1825 | 16.1990 | 16.2057 |
| Ca 370.602 | 77990 | 78317 | 78926 |
| Cd 226.502 | 0.8597 | 1.0821 | 0.5898 |
| Co 228.615 | 183.975 | 185.722 | 185.253 |
| Cr 267.716 | 366.472 | 367.713 | 369.320 |
| Cu 324.754 | 221.206 | 220.864 | 219.379 |
| Fe 271.441 | 385141 | 385655 | 385723 |
| K 766.491 | 7521.30 | 7490.14 | 7476.77 |
| Mg 279.078 | 7336.11 | 7357.45 | 7377.23 |
| Mn 257.610 | 29779.9x | 29832.3x | 30253.1x |
| Mo 202.032 | 24.5687 | 25.4176 | 25.9640 |
| Na 330.237 | 679.012u | 739.479u | 717.149u |
| Ni 231.604 | 97.6343 | 99.3960 | 98.9473 |
| Pb 220.353 | 1034.52 | 1045.26 | 1051.77 |
| Sb 206.834 | -3.7386 | 3.2699 | 1.7599 |
| Se 196.026 | -6.5766 | 5.6328 | -0.3348 |
| Sn 189.925 | 78.6409 | 78.7682 | 76.5697 |
| Sr 216.596 | 433.025 | 436.140 | 435.828 |
| Ti 334.941 | 1077.80 | 1076.95 | 1077.92 |
| Tl 190.794 | 1.2308u | 1.9324u | -1.5709u |
| V 292.401 | 501.503 | 502.546 | 505.254 |
| Zn 206.200 | 1874.76 | 1880.48 | 1896.59 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -2.8984b | ppb | 0.0588 | 2.0 | -172.244 |
| Al 308.215 | 110118b | ppb | 54.3853 | 0.0 | 739501 |
| As 188.980 | 224.650b | ppb | 1.2530 | 0.6 | 144.587 |
| B 249.678 | 28.1560b | ppb | 0.6571 | 2.3 | -382.521 |
| Ba 389.178 | 3281.35b | ppb | 1.4834 | 0.0 | 70771.2 |
| Be 313.042 | 16.1957b | ppb | 0.0119 | 0.1 | 29107.2 |
| Ca 370.602 | 78411b | ppb | 475.3 | 0.6 | 224021 |
| Cd 226.502 | 0.8438b | ppb | 0.2465 | 29.2 | 1470.64 |
| Co 228.615 | 184.983b | ppb | 0.9039 | 0.5 | 2231.53 |
| Cr 267.716 | 367.835b | ppb | 1.4275 | 0.4 | 20626.6 |
| Cu 324.754 | 220.483b | ppb | 0.9713 | 0.4 | 16744.8 |
| Fe 271.441 | 385506b | ppb | 318.221 | 0.1 | 607409 |
| K 766.491 | 7496.07b | ppb | 22.8505 | 0.3 | 336003 |
| Mg 279.078 | 7356.93b | ppb | 20.5665 | 0.3 | 19373.4 |
| Mn 257.610 | 29955.1xb | ppb | 259.386 | 0.9 | 5892743 |
| Mo 202.032 | 25.3167b | ppb | 0.7031 | 2.8 | 160.894 |
| Na 330.237 | 711.880b | ppb | 30.5757 | 4.3 | -73.8748 |
| Ni 231.604 | 98.6592b | ppb | 0.9155 | 0.9 | 335.753 |
| Pb 220.353 | 1043.85b | ppb | 8.7138 | 0.8 | 1685.58 |
| Sb 206.834 | 0.4304b | ppb | 3.6886 | 857.0 | 11.4492 |
| Se 196.026 | -0.4262b | ppb | 6.1052 | 1432.5 | 11.5102 |
| Sn 189.925 | 77.9929b | ppb | 1.2342 | 1.6 | 53.3310 |
| Sr 216.596 | 434.997b | ppb | 1.7155 | 0.4 | 5887.77 |
| Ti 334.941 | 1077.56b | ppb | 0.5259 | 0.0 | 314092 |
| Tl 190.794 | 0.5307b | ppb | 1.8536 | 349.2 | -42.4429 |
| V 292.401 | 503.101b | ppb | 1.9363 | 0.4 | 13263.9 |
| Zn 206.200 | 1883.94b | ppb | 11.3192 | 0.6 | 2051.23 |

**680-106200-b-59-a (Samp)** **10/18/2014, 1:42:16 AM** **Rack 3, Tube 40**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -2.7486u | -3.0313u | -3.0443u |
| Al 308.215 | 120063 | 119930 | 119937 |
| As 188.980 | 363.425 | 368.325 | 363.499 |
| B 249.678 | 19.0790u | 19.7520u | 20.1464u |
| Ba 389.178 | 2048.29 | 2052.36 | 2053.59 |
| Be 313.042 | 14.4606 | 14.4880 | 14.5049 |
| Ca 370.602 | 46955 | 47077 | 47031 |
| Cd 226.502 | -5.9918 | -5.7813 | -6.0062 |
| Co 228.615 | 182.133 | 182.415 | 180.812 |
| Cr 267.716 | 675.138 | 675.227 | 676.429 |
| Cu 324.754 | 146.075 | 146.292 | 146.191 |
| Fe 271.441 | 609176 | 611655 | 606461 |
| K 766.491 | 7942.73 | 7962.95 | 7972.44 |
| Mg 279.078 | 10953.6 | 10969.2 | 10969.2 |
| Mn 257.610 | 23091.5 | 23014.7 | 23017.6 |
| Mo 202.032 | 22.1639 | 23.3175 | 23.1211 |
| Na 330.237 | 107.289u | 322.644u | 574.409u |
| Ni 231.604 | 93.8367 | 91.2379 | 95.9072 |
| Pb 220.353 | 573.725 | 573.392 | 572.439 |
| Sb 206.834 | -11.7825 | -9.1405 | -6.5473 |
| Se 196.026 | -1.1276 | -4.7380 | 9.0244 |
| Sn 189.925 | 42.4300 | 36.8407 | 32.9829 |
| Sr 216.596 | 210.270 | 210.910 | 210.156 |
| Ti 334.941 | 1245.14 | 1246.39 | 1247.48 |
| Tl 190.794 | -1.2226u | 2.9960u | -4.7714u |
| V 292.401 | 727.301 | 729.910 | 731.257 |
| Zn 206.200 | 873.488 | 863.447 | 862.236 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -2.9414 | ppb | 0.1671 | 5.7 | -243.919 |
| Al 308.215 | 119976 | ppb | 74.6339 | 0.1 | 805995 |
| As 188.980 | 365.083 | ppb | 2.8078 | 0.8 | 237.724 |
| B 249.678 | 19.6591 | ppb | 0.5397 | 2.7 | -1044.62 |
| Ba 389.178 | 2051.41 | ppb | 2.7726 | 0.1 | 44419.1 |
| Be 313.042 | 14.4845 | ppb | 0.0223 | 0.2 | 26007.6 |
| Ca 370.602 | 47021 | ppb | 61.74 | 0.1 | 130122 |
| Cd 226.502 | -5.9265 | ppb | 0.1259 | 2.1 | 2013.58 |
| Co 228.615 | 181.787 | ppb | 0.8554 | 0.5 | 2214.08 |
| Cr 267.716 | 675.598 | ppb | 0.7212 | 0.1 | 37642.0 |
| Cu 324.754 | 146.186 | ppb | 0.1087 | 0.1 | 11333.1 |
| Fe 271.441 | 609097 | ppb | 2598.09 | 0.4 | 959679 |
| K 766.491 | 7959.37 | ppb | 15.1762 | 0.2 | 356755 |
| Mg 279.078 | 10964.0 | ppb | 8.9983 | 0.1 | 29345.6 |
| Mn 257.610 | 23041.3 | ppb | 43.4952 | 0.2 | 4533555 |
| Mo 202.032 | 22.8675 | ppb | 0.6172 | 2.7 | 133.287 |
| Na 330.237 | 334.781 | ppb | 233.797 | 69.8 | -116.607 |
| Ni 231.604 | 93.6606 | ppb | 2.3396 | 2.5 | 339.457 |
| Pb 220.353 | 573.185 | ppb | 0.6674 | 0.1 | 957.011 |
| Sb 206.834 | -9.1568 | ppb | 2.6176 | 28.6 | 8.6967 |
| Se 196.026 | 1.0530 | ppb | 7.1356 | 677.7 | 12.5781 |
| Sn 189.925 | 37.4179 | ppb | 4.7499 | 12.7 | 22.5946 |
| Sr 216.596 | 210.445 | ppb | 0.4069 | 0.2 | 3367.80 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 1246.34 | ppb | 1.1684 | 0.1 | 363318 |
| Tl 190.794 | -0.9993 | ppb | 3.8885 | 389.1 | -78.3726 |
| V 292.401 | 729.489 | ppb | 2.0113 | 0.3 | 19247.3 |
| Zn 206.200 | 866.390 | ppb | 6.1764 | 0.7 | 921.679 |

**680-106200-b-35-a (Samp)** **10/18/2014, 1:46:34 AM** **Rack 3, Tube 41**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -4.1471u | -4.4922u | -3.9464u |
| Al 308.215 | 162548 | 162368 | 162199 |
| As 188.980 | 124.730 | 126.704 | 122.722 |
| B 249.678 | 13.4138u | 13.3070u | 12.6202u |
| Ba 389.178 | 1558.02 | 1556.18 | 1557.59 |
| Be 313.042 | 16.0784 | 16.0318 | 16.0580 |
| Ca 370.602 | 32140 | 32144 | 32361 |
| Cd 226.502 | -2.5810 | -2.6991 | -3.0369 |
| Co 228.615 | 144.776 | 145.539 | 145.181 |
| Cr 267.716 | 452.474 | 452.672 | 452.740 |
| Cu 324.754 | 99.8113 | 98.9494 | 98.5242 |
| Fe 271.441 | 350718 | 350679 | 350536 |
| K 766.491 | 6133.39 | 6128.02 | 6116.87 |
| Mg 279.078 | 7094.93 | 7096.84 | 7110.08 |
| Mn 257.610 | 21263.1 | 21354.4 | 21524.0 |
| Mo 202.032 | 13.0520 | 12.9739 | 13.7349 |
| Na 330.237 | 205.660u | 237.553u | 250.738u |
| Ni 231.604 | 104.100 | 105.489 | 107.713 |
| Pb 220.353 | 347.790 | 350.615 | 348.399 |
| Sb 206.834 | -7.3226 | -5.9162 | -6.6925 |
| Se 196.026 | 7.0158 | 1.5970 | -0.5228 |
| Sn 189.925 | 25.3293 | 27.0424 | 23.7804 |
| Sr 216.596 | 242.719 | 243.561 | 242.226 |
| Ti 334.941 | 642.905 | 641.910 | 641.806 |
| Tl 190.794 | 0.9521u | 0.9875u | -0.5408u |
| V 292.401 | 449.946 | 448.878 | 451.206 |
| Zn 206.200 | 468.429 | 467.567 | 465.026 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -4.1952 | ppb | 0.2761 | 6.6 | -315.572 |
| Al 308.215 | 162371 | ppb | 174.765 | 0.1 | 1089730 |
| As 188.980 | 124.719 | ppb | 1.9914 | 1.6 | 78.1266 |
| B 249.678 | 13.1137 | ppb | 0.4307 | 3.3 | -553.980 |
| Ba 389.178 | 1557.26 | ppb | 0.9595 | 0.1 | 33638.7 |
| Be 313.042 | 16.0560 | ppb | 0.0234 | 0.1 | 28846.0 |
| Ca 370.602 | 32215 | ppb | 126.4 | 0.4 | 90031 |
| Cd 226.502 | -2.7723 | ppb | 0.2366 | 8.5 | 1190.66 |
| Co 228.615 | 145.165 | ppb | 0.3819 | 0.3 | 1752.18 |
| Cr 267.716 | 452.628 | ppb | 0.1383 | 0.0 | 25234.9 |
| Cu 324.754 | 99.0950 | ppb | 0.6558 | 0.7 | 7734.10 |
| Fe 271.441 | 350644 | ppb | 96.2176 | 0.0 | 552479 |
| K 766.491 | 6126.09 | ppb | 8.4283 | 0.1 | 274640 |
| Mg 279.078 | 7100.62 | ppb | 8.2501 | 0.1 | 18837.4 |
| Mn 257.610 | 21380.5 | ppb | 132.394 | 0.6 | 4206192 |
| Mo 202.032 | 13.2536 | ppb | 0.4186 | 3.2 | 80.0123 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 231.317 | ppb | 23.1772 | 10.0 | -53.5507 |
| Ni 231.604 | 105.767 | ppb | 1.8225 | 1.7 | 355.135 |
| Pb 220.353 | 348.935 | ppb | 1.4867 | 0.4 | 585.397 |
| Sb 206.834 | -6.6438 | ppb | 0.7045 | 10.6 | 1.4298 |
| Se 196.026 | 2.6967 | ppb | 3.8877 | 144.2 | 10.5873 |
| Sn 189.925 | 25.3841 | ppb | 1.6317 | 6.4 | 13.4794 |
| Sr 216.596 | 242.835 | ppb | 0.6752 | 0.3 | 3449.00 |
| Ti 334.941 | 642.207 | ppb | 0.6070 | 0.1 | 187206 |
| Tl 190.794 | 0.4663 | ppb | 0.8723 | 187.1 | -42.5394 |
| V 292.401 | 450.010 | ppb | 1.1655 | 0.3 | 11856.0 |
| Zn 206.200 | 467.007 | ppb | 1.7692 | 0.4 | 495.583 |

**680-106200-b-34-a (Samp)** **10/18/2014, 1:50:52 AM** **Rack 3, Tube 42**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -6.4804u | -6.3478u | -5.7247u |
| Al 308.215 | 121439 | 121548 | 121306 |
| As 188.980 | 133.402 | 134.391 | 127.371 |
| B 249.678 | 5.2198u | 4.8596u | 5.6601u |
| Ba 389.178 | 7566.60 | 7566.23 | 7554.17 |
| Be 313.042 | 19.5109 | 19.5496 | 19.4907 |
| Ca 370.602 | 24118 | 24101 | 24017 |
| Cd 226.502 | -3.1474 | -3.5398 | -3.4721 |
| Co 228.615 | 262.165 | 264.651 | 262.378 |
| Cr 267.716 | 342.838 | 343.204 | 341.854 |
| Cu 324.754 | 76.4168 | 76.8589 | 76.9364 |
| Fe 271.441 | 359462 | 359858 | 359270 |
| K 766.491 | 4644.82 | 4652.13 | 4660.18 |
| Mg 279.078 | 5228.43 | 5229.36 | 5212.05 |
| Mn 257.610 | 55642.1x | 55323.4x | 55435.6x |
| Mo 202.032 | 17.5222 | 17.5822 | 17.4349 |
| Na 330.237 | 57.6549u | -63.1746u | -149.405u |
| Ni 231.604 | 88.9323 | 91.3895 | 88.9352 |
| Pb 220.353 | 337.676 | 341.727 | 341.993 |
| Sb 206.834 | -2.0598 | -12.6484u | -8.1340 |
| Se 196.026 | -10.5549 | 1.0444 | 0.2815 |
| Sn 189.925 | 23.3720 | 26.9651 | 23.6390 |
| Sr 216.596 | 216.682 | 215.544 | 215.774 |
| Ti 334.941 | 559.396 | 560.630 | 559.590 |
| Tl 190.794 | 15.1885u | 15.2585u | 13.9016u |
| V 292.401 | 473.017 | 474.316 | 472.009 |
| Zn 206.200 | 287.232 | 287.812 | 286.931 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -6.1843b | ppb | 0.4035 | 6.5 | -300.221 |
| Al 308.215 | 121431b | ppb | 121.111 | 0.1 | 815295 |
| As 188.980 | 131.721b | ppb | 3.7998 | 2.9 | 82.3372 |
| B 249.678 | 5.2465b | ppb | 0.4009 | 7.6 | -706.913 |
| Ba 389.178 | 7562.33b | ppb | 7.0704 | 0.1 | 162910 |
| Be 313.042 | 19.5171b | ppb | 0.0299 | 0.2 | 35090.9 |
| Ca 370.602 | 24079b | ppb | 53.99 | 0.2 | 67203 |
| Cd 226.502 | -3.3864b | ppb | 0.2097 | 6.2 | 1198.89 |
| Co 228.615 | 263.065b | ppb | 1.3779 | 0.5 | 3136.21 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 342.632b | ppb | 0.6984 | 0.2 | 19359.3 |
| Cu 324.754 | 76.7374b | ppb | 0.2803 | 0.4 | 6081.04 |
| Fe 271.441 | 359530b | ppb | 300.166 | 0.1 | 566493 |
| K 766.491 | 4652.37b | ppb | 7.6859 | 0.2 | 208630 |
| Mg 279.078 | 5223.28b | ppb | 9.7345 | 0.2 | 13000.2 |
| Mn 257.610 | 55467.0xb | ppb | 161.629 | 0.3 | 10910383 |
| Mo 202.032 | 17.5131b | ppb | 0.0740 | 0.4 | 108.704 |
| Na 330.237 | -51.6416b | ppb | 104.011 | 201.4 | -63.9355 |
| Ni 231.604 | 89.7523b | ppb | 1.4179 | 1.6 | 305.527 |
| Pb 220.353 | 340.465b | ppb | 2.4194 | 0.7 | 580.465 |
| Sb 206.834 | -7.6141b | ppb | 5.3134 | 69.8 | -0.9895 |
| Se 196.026 | -3.0763b | ppb | 6.4879 | 210.9 | 16.3558 |
| Sn 189.925 | 24.6587b | ppb | 2.0019 | 8.1 | 12.9298 |
| Sr 216.596 | 216.000b | ppb | 0.6017 | 0.3 | 3125.19 |
| Ti 334.941 | 559.872b | ppb | 0.6635 | 0.1 | 163204 |
| Tl 190.794 | 14.7829b | ppb | 0.7640 | 5.2 | -8.7929 |
| V 292.401 | 473.114b | ppb | 1.1567 | 0.2 | 12465.8 |
| Zn 206.200 | 287.325b | ppb | 0.4480 | 0.2 | 298.059 |

**680-106200-b-20-a (Samp)** **10/18/2014, 1:55:10 AM** **Rack 3, Tube 43**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -7.5118u | -7.4333u | -7.3990u |
| Al 308.215 | 177074 | 177423 | 177537 |
| As 188.980 | 165.092 | 165.765 | 169.453 |
| B 249.678 | 74.7450 | 74.9669 | 73.4046 |
| Ba 389.178 | 5858.77 | 5877.95 | 5880.94 |
| Be 313.042 | 17.8005 | 17.8594 | 17.8995 |
| Ca 370.602 | 205123 | 206619 | 207106 |
| Cd 226.502 | -1.7714 | -1.7639 | -1.9796 |
| Co 228.615 | 442.424 | 448.299 | 446.136 |
| Cr 267.716 | 276.344 | 278.210 | 278.050 |
| Cu 324.754 | 90.7540 | 91.4045 | 92.0404 |
| Fe 271.441 | 382962 | 383822 | 383770 |
| K 766.491 | 14250.8 | 14285.7 | 14258.9 |
| Mg 279.078 | 30783.2 | 30937.4 | 30943.0 |
| Mn 257.610 | 39549.9x | 40071.0x | 40016.1x |
| Mo 202.032 | 19.5812 | 19.2247 | 19.4785 |
| Na 330.237 | 685.362u | 637.585u | 563.943u |
| Ni 231.604 | 81.4492 | 79.6250 | 78.2872 |
| Pb 220.353 | 665.486 | 656.154 | 671.690 |
| Sb 206.834 | -11.7771u | -1.8959 | -14.3585u |
| Se 196.026 | 4.3817 | 5.0996 | -2.6053 |
| Sn 189.925 | 34.1319 | 32.0607 | 29.4577 |
| Sr 216.596 | 431.140 | 434.261 | 436.543 |
| Ti 334.941 | 1807.20 | 1814.54 | 1815.05 |
| Tl 190.794 | 6.0412u | 6.7509u | 9.8213u |
| V 292.401 | 514.831 | 519.445 | 518.705 |
| Zn 206.200 | 321.148 | 319.471 | 323.919 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -7.4480b | ppb | 0.0578 | 0.8 | -505.074 |
| Al 308.215 | 177345b | ppb | 241.143 | 0.1 | 1190168 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 166.770b | ppb | 2.3475 | 1.4 | 106.368 |
| B 249.678 | 74.3722b | ppb | 0.8453 | 1.1 | 392.321 |
| Ba 389.178 | 5872.56b | ppb | 12.0283 | 0.2 | 126583 |
| Be 313.042 | 17.8531b | ppb | 0.0498 | 0.3 | 32156.2 |
| Ca 370.602 | 206283b | ppb | 1033 | 0.5 | 595522 |
| Cd 226.502 | -1.8383b | ppb | 0.1224 | 6.7 | 1353.74 |
| Co 228.615 | 445.620b | ppb | 2.9711 | 0.7 | 5310.69 |
| Cr 267.716 | 277.535b | ppb | 1.0340 | 0.4 | 15709.7 |
| Cu 324.754 | 91.3997b | ppb | 0.6432 | 0.7 | 7177.55 |
| Fe 271.441 | 383518b | ppb | 481.951 | 0.1 | 604309 |
| K 766.491 | 14265.2b | ppb | 18.2658 | 0.1 | 639201 |
| Mg 279.078 | 30887.9b | ppb | 90.6622 | 0.3 | 83225.1 |
| Mn 257.610 | 39879.0xb | ppb | 286.332 | 0.7 | 7844760 |
| Mo 202.032 | 19.4282b | ppb | 0.1835 | 0.9 | 120.619 |
| Na 330.237 | 628.963b | ppb | 61.1669 | 9.7 | -41.8973 |
| Ni 231.604 | 79.7871b | ppb | 1.5872 | 2.0 | 275.997 |
| Pb 220.353 | 664.443b | ppb | 7.8199 | 1.2 | 1088.01 |
| Sb 206.834 | -9.3438b | ppb | 6.5780 | 70.4 | -3.4850 |
| Se 196.026 | 2.2920b | ppb | 4.2563 | 185.7 | 15.2945 |
| Sn 189.925 | 31.8834b | ppb | 2.3421 | 7.3 | 18.4028 |
| Sr 216.596 | 433.982b | ppb | 2.7122 | 0.6 | 5927.43 |
| Ti 334.941 | 1812.26b | ppb | 4.3920 | 0.2 | 528271 |
| Tl 190.794 | 7.5378b | ppb | 2.0091 | 26.7 | -27.9880 |
| V 292.401 | 517.660b | ppb | 2.4782 | 0.5 | 13659.5 |
| Zn 206.200 | 321.513b | ppb | 2.2461 | 0.7 | 334.715 |

**680-106200-b-36-a (Samp)** **10/18/2014, 1:59:28 AM** **Rack 3, Tube 44**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 13.3923 | 12.8561 | 12.9419 |
| Al 308.215 | 58195.2 | 58122.3 | 58128.8 |
| As 188.980 | 186.698 | 179.108 | 184.658 |
| B 249.678 | 30.6867u | 31.2159u | 32.0183u |
| Ba 389.178 | 883.970 | 883.006 | 885.047 |
| Be 313.042 | 5.7539 | 5.7582 | 5.7633 |
| Ca 370.602 | 52434 | 52138 | 52149 |
| Cd 226.502 | 12.2125 | 12.4576 | 12.4564 |
| Co 228.615 | 60.6613 | 59.2852 | 59.7650 |
| Cr 267.716 | 476.885 | 475.902 | 475.336 |
| Cu 324.754 | 666.114 | 668.655 | 665.300 |
| Fe 271.441 | 398134 | 398675 | 398105 |
| K 766.491 | 3822.14 | 3817.85 | 3828.54 |
| Mg 279.078 | 22271.0 | 22217.3 | 22220.7 |
| Mn 257.610 | 8221.01 | 8226.95 | 8222.93 |
| Mo 202.032 | 100.456 | 101.175 | 101.019 |
| Na 330.237 | 899.417u | 894.420u | 990.178u |
| Ni 231.604 | 333.079 | 336.046 | 333.921 |
| Pb 220.353 | 3772.85 | 3758.93 | 3753.55 |
| Sb 206.834 | 16.2311 | 17.7257 | 18.7829 |
| Se 196.026 | 10.2109 | 5.9247 | 15.2309 |
| Sn 189.925 | 221.105 | 207.611 | 216.435 |
| Sr 216.596 | 193.754 | 194.108 | 192.950 |
| Ti 334.941 | 892.094 | 890.069 | 892.005 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -5.9165u | -3.4644u | -5.5258u |
| V 292.401 | 179.432 | 180.900 | 180.702 |
| Zn 206.200 | 3305.81 | 3306.22 | 3304.72 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 13.0634 | ppb | 0.2880 | 2.2 | 1077.12 |
| Al 308.215 | 58148.8 | ppb | 40.3439 | 0.1 | 391115 |
| As 188.980 | 183.488 | ppb | 3.9276 | 2.1 | 116.213 |
| B 249.678 | 31.3070 | ppb | 0.6704 | 2.1 | -362.132 |
| Ba 389.178 | 884.008 | ppb | 1.0209 | 0.1 | 19192.3 |
| Be 313.042 | 5.7585 | ppb | 0.0047 | 0.1 | 10182.3 |
| Ca 370.602 | 52241 | ppb | 168.0 | 0.3 | 147272 |
| Cd 226.502 | 12.3755 | ppb | 0.1412 | 1.1 | 2008.87 |
| Co 228.615 | 59.9039 | ppb | 0.6985 | 1.2 | 756.328 |
| Cr 267.716 | 476.041 | ppb | 0.7842 | 0.2 | 26481.2 |
| Cu 324.754 | 666.690 | ppb | 1.7502 | 0.3 | 49827.1 |
| Fe 271.441 | 398305 | ppb | 320.707 | 0.1 | 627555 |
| K 766.491 | 3822.84 | ppb | 5.3783 | 0.1 | 171474 |
| Mg 279.078 | 22236.3 | ppb | 30.1195 | 0.1 | 60393.8 |
| Mn 257.610 | 8223.63 | ppb | 3.0282 | 0.0 | 1618714 |
| Mo 202.032 | 100.883 | ppb | 0.3784 | 0.4 | 677.840 |
| Na 330.237 | 928.005 | ppb | 53.9014 | 5.8 | -100.543 |
| Ni 231.604 | 334.349 | ppb | 1.5288 | 0.5 | 1074.38 |
| Pb 220.353 | 3761.78 | ppb | 9.9579 | 0.3 | 5968.04 |
| Sb 206.834 | 17.5799 | ppb | 1.2821 | 7.3 | 36.3004 |
| Se 196.026 | 10.4555 | ppb | 4.6580 | 44.6 | 11.4369 |
| Sn 189.925 | 215.050 | ppb | 6.8524 | 3.2 | 157.153 |
| Sr 216.596 | 193.604 | ppb | 0.5932 | 0.3 | 2899.30 |
| Ti 334.941 | 891.390 | ppb | 1.1442 | 0.1 | 259859 |
| Tl 190.794 | -4.9689 | ppb | 1.3175 | 26.5 | -63.5447 |
| V 292.401 | 180.345 | ppb | 0.7963 | 0.4 | 4819.06 |
| Zn 206.200 | 3305.58 | ppb | 0.7766 | 0.0 | 3612.37 |

**680-106200-b-23-a (Samp)** **10/18/2014, 2:03:46 AM** **Rack 3, Tube 45**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0282 | 0.7301 | -0.5083u |
| Al 308.215 | 94443.4 | 94355.7 | 94392.1 |
| As 188.980 | 214.110 | 216.204 | 219.590 |
| B 249.678 | 30.2534u | 28.8304u | 29.6592u |
| Ba 389.178 | 3068.12 | 3064.14 | 3066.58 |
| Be 313.042 | 10.0925 | 10.0805 | 10.0893 |
| Ca 370.602 | 47734 | 47957 | 47885 |
| Cd 226.502 | 6.6906 | 6.3527 | 6.0578 |
| Co 228.615 | 116.229 | 116.447 | 116.573 |
| Cr 267.716 | 344.667 | 344.892 | 344.935 |
| Cu 324.754 | 404.471 | 399.557 | 399.269 |
| Fe 271.441 | 363084 | 363108 | 362828 |
| K 766.491 | 5767.27 | 5767.82 | 5757.19 |
| Mg 279.078 | 14560.0 | 14563.4 | 14562.7 |
| Mn 257.610 | 16164.8 | 16287.2 | 16301.1 |
| Mo 202.032 | 20.2279 | 20.9270 | 20.8863 |
| Na 330.237 | 1442.06u | 1180.30u | 1588.69u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 125.776 | 124.560 | 128.377 |
| Pb 220.353 | 2052.44 | 2062.88 | 2066.69 |
| Sb 206.834 | 1.2475 | 5.4418 | -0.0663 |
| Se 196.026 | -1.0900 | 2.9017 | 1.0991 |
| Sn 189.925 | 164.657 | 158.065 | 162.204 |
| Sr 216.596 | 278.875 | 279.811 | 280.773 |
| Ti 334.941 | 1481.75 | 1482.32 | 1481.37 |
| Tl 190.794 | -0.9659u | 5.5545u | 1.9898u |
| V 292.401 | 435.762 | 436.600 | 437.061 |
| Zn 206.200 | 4248.55 | 4248.03 | 4263.87 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0833 | ppb | 0.6211 | 745.3 | 17.9615 |
| Al 308.215 | 94397.1 | ppb | 44.0617 | 0.0 | 634074 |
| As 188.980 | 216.635 | ppb | 2.7653 | 1.3 | 139.169 |
| B 249.678 | 29.5810 | ppb | 0.7147 | 2.4 | -309.372 |
| Ba 389.178 | 3066.28 | ppb | 2.0060 | 0.1 | 66140.1 |
| Be 313.042 | 10.0874 | ppb | 0.0062 | 0.1 | 18043.3 |
| Ca 370.602 | 47859 | ppb | 114.0 | 0.2 | 135486 |
| Cd 226.502 | 6.3670 | ppb | 0.3166 | 5.0 | 1625.11 |
| Co 228.615 | 116.417 | ppb | 0.1740 | 0.1 | 1433.10 |
| Cr 267.716 | 344.831 | ppb | 0.1438 | 0.0 | 19281.4 |
| Cu 324.754 | 401.099 | ppb | 2.9242 | 0.7 | 30121.6 |
| Fe 271.441 | 363007 | ppb | 154.898 | 0.0 | 571952 |
| K 766.491 | 5764.09 | ppb | 5.9854 | 0.1 | 258426 |
| Mg 279.078 | 14562.0 | ppb | 1.7686 | 0.0 | 39297.7 |
| Mn 257.610 | 16251.0 | ppb | 74.9793 | 0.5 | 3197406 |
| Mo 202.032 | 20.6804 | ppb | 0.3924 | 1.9 | 130.235 |
| Na 330.237 | 1403.69 | ppb | 206.884 | 14.7 | -94.9953 |
| Ni 231.604 | 126.237 | ppb | 1.9501 | 1.5 | 420.339 |
| Pb 220.353 | 2060.67 | ppb | 7.3779 | 0.4 | 3284.50 |
| Sb 206.834 | 2.2076 | ppb | 2.8769 | 130.3 | 13.1392 |
| Se 196.026 | 0.9702 | ppb | 1.9990 | 206.0 | 8.6584 |
| Sn 189.925 | 161.642 | ppb | 3.3315 | 2.1 | 116.696 |
| Sr 216.596 | 279.820 | ppb | 0.9488 | 0.3 | 3928.89 |
| Ti 334.941 | 1481.81 | ppb | 0.4754 | 0.0 | 431924 |
| Tl 190.794 | 2.1928 | ppb | 3.2650 | 148.9 | -45.3055 |
| V 292.401 | 436.474 | ppb | 0.6584 | 0.2 | 11524.0 |
| Zn 206.200 | 4253.48 | ppb | 9.0009 | 0.2 | 4656.02 |

**mb 680-354062/1-a (Samp)** **10/18/2014, 2:08:05 AM** **Rack 3, Tube 46**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0533 | -0.3857u | -0.1850u |
| Al 308.215 | 8.2969 | 7.7752 | 5.6905 |
| As 188.980 | -5.5203u | -4.8466u | -4.3045u |
| B 249.678 | 2.4561 | 1.7556 | 2.3580 |
| Ba 389.178 | 0.3414 | 0.9857 | 0.2403 |
| Be 313.042 | -0.0311u | -0.0325u | -0.0381u |
| Ca 370.602 | 29.50 | 23.50 | 25.36 |
| Cd 226.502 | 0.3399 | 0.1335 | 0.2105 |
| Co 228.615 | -0.4118u | -0.1912u | -0.3316u |
| Cr 267.716 | 1.4042 | 1.3282 | 1.5150 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 0.3026 | 0.3829 | 0.7279 |
| Fe 271.441 | 51.9860 | 47.8424 | 47.7590 |
| K 766.491 | 18.0280 | 18.1233 | 18.5300 |
| Mg 279.078 | 10.8790 | 8.1893 | 12.2744 |
| Mn 257.610 | 1.7002 | 1.4255 | 1.2880 |
| Mo 202.032 | 0.4123 | 0.0613 | -0.3938u |
| Na 330.237 | 223.451 | 94.6955 | 194.985 |
| Ni 231.604 | -0.8353u | 0.4308 | -0.5565u |
| Pb 220.353 | 0.6802 | 1.2315 | 1.7882 |
| Sb 206.834 | 4.3839 | 3.5424 | 2.8420 |
| Se 196.026 | -0.0388u | 0.7301 | -5.1705u |
| Sn 189.925 | 17.0888 | 19.6987 | 20.4477 |
| Sr 216.596 | -0.1428u | 0.1252 | 0.3570 |
| Ti 334.941 | 0.6572 | 0.5882 | 0.5309 |
| Tl 190.794 | -3.4166u | -1.9603u | -0.3924u |
| V 292.401 | -0.2115u | 0.0575 | -0.2083u |
| Zn 206.200 | 5.2332 | 6.4241 | 5.9190 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1725 | ppb | 0.2198 | 127.4 | -21.5564 |
| Al 308.215 | 7.2542 | ppb | 1.3791 | 19.0 | 651.925 |
| As 188.980 | -4.8904 | ppb | 0.6091 | 12.5 | -8.5170 |
| B 249.678 | 2.1899 | ppb | 0.3793 | 17.3 | 78.1865 |
| Ba 389.178 | 0.5225 | ppb | 0.4044 | 77.4 | -69.3128 |
| Be 313.042 | -0.0339 | ppb | 0.0037 | 11.0 | -301.238 |
| Ca 370.602 | 26.12 | ppb | 3.070 | 11.8 | 95.79 |
| Cd 226.502 | 0.2280 | ppb | 0.1043 | 45.8 | 19.3156 |
| Co 228.615 | -0.3115 | ppb | 0.1117 | 35.8 | 3.1678 |
| Cr 267.716 | 1.4158 | ppb | 0.0940 | 6.6 | 112.365 |
| Cu 324.754 | 0.4711 | ppb | 0.2260 | 48.0 | 278.106 |
| Fe 271.441 | 49.1958 | ppb | 2.4167 | 4.9 | 93.5119 |
| K 766.491 | 18.2271 | ppb | 0.2666 | 1.5 | 1059.55 |
| Mg 279.078 | 10.4476 | ppb | 2.0764 | 19.9 | 51.9163 |
| Mn 257.610 | 1.4712 | ppb | 0.2098 | 14.3 | 325.839 |
| Mo 202.032 | 0.0266 | ppb | 0.4042 | 1520.2 | 6.5735 |
| Na 330.237 | 171.044 | ppb | 67.6340 | 39.5 | 33.3148 |
| Ni 231.604 | -0.3203 | ppb | 0.6653 | 207.7 | -6.6316 |
| Pb 220.353 | 1.2333 | ppb | 0.5540 | 44.9 | 11.4361 |
| Sb 206.834 | 3.5894 | ppb | 0.7720 | 21.5 | -0.5032 |
| Se 196.026 | -1.4931 | ppb | 3.2079 | 214.9 | 0.0660 |
| Sn 189.925 | 19.0784 | ppb | 1.7633 | 9.2 | 8.7034 |
| Sr 216.596 | 0.1131 | ppb | 0.2501 | 221.1 | 7.8573 |
| Ti 334.941 | 0.5921 | ppb | 0.0632 | 10.7 | 140.903 |
| Tl 190.794 | -1.9231 | ppb | 1.5124 | 78.6 | -9.8453 |
| V 292.401 | -0.1208 | ppb | 0.1544 | 127.8 | -14.5125 |
| Zn 206.200 | 5.8588 | ppb | 0.5978 | 10.2 | 6.6728 |

**lcs 680-354062/2-a (Samp)** **10/18/2014, 2:12:23 AM** **Rack 3, Tube 47**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 49.9143 | 49.3759 | 49.2490 |
| Al 308.215 | 4841.22 | 4846.68 | 4833.03 |
| As 188.980 | 96.6823 | 93.6084 | 94.6058 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 186.004 | 187.955 | 188.370 |
| Ba 389.178 | 100.622 | 101.643 | 101.357 |
| Be 313.042 | 50.0291 | 50.0888 | 50.0674 |
| Ca 370.602 | 4718 | 4741 | 4755 |
| Cd 226.502 | 51.7663 | 51.5233 | 51.5435 |
| Co 228.615 | 49.7412 | 49.4841 | 49.3153 |
| Cr 267.716 | 100.864 | 100.968 | 100.795 |
| Cu 324.754 | 99.7453 | 99.3303 | 100.829 |
| Fe 271.441 | 4937.17 | 4969.01 | 4959.14 |
| K 766.491 | 4993.39 | 5007.35 | 4997.14 |
| Mg 279.078 | 4821.65 | 4832.40 | 4821.83 |
| Mn 257.610 | 496.013 | 498.334 | 499.351 |
| Mo 202.032 | 98.7428 | 97.7521 | 98.2546 |
| Na 330.237 | 4914.66 | 4959.94 | 5003.63 |
| Ni 231.604 | 100.739 | 100.843 | 99.0800 |
| Pb 220.353 | 511.722 | 507.718 | 503.695 |
| Sb 206.834 | 50.4477 | 49.9418 | 50.1925 |
| Se 196.026 | 92.4213 | 94.9250 | 98.8569 |
| Sn 189.925 | 202.114 | 206.259 | 207.446 |
| Sr 216.596 | 99.7220 | 100.198 | 99.5461 |
| Ti 334.941 | 100.876 | 101.053 | 101.011 |
| Tl 190.794 | 35.4535 | 40.5689 | 38.5152 |
| V 292.401 | 95.9763 | 95.9539 | 96.2781 |
| Zn 206.200 | 105.292 | 99.7648 | 102.178 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 49.5130 | ppb | 0.3532 | 0.7 | 4217.10 |
| Al 308.215 | 4840.31 | ppb | 6.8709 | 0.1 | 33074.8 |
| As 188.980 | 94.9655 | ppb | 1.5682 | 1.7 | 58.6781 |
| B 249.678 | 187.443 | ppb | 1.2632 | 0.7 | 3163.41 |
| Ba 389.178 | 101.207 | ppb | 0.5268 | 0.5 | 2107.94 |
| Be 313.042 | 50.0618 | ppb | 0.0303 | 0.1 | 90340.7 |
| Ca 370.602 | 4738 | ppb | 18.59 | 0.4 | 13761 |
| Cd 226.502 | 51.6110 | ppb | 0.1348 | 0.3 | 2204.11 |
| Co 228.615 | 49.5136 | ppb | 0.2144 | 0.4 | 588.546 |
| Cr 267.716 | 100.876 | ppb | 0.0869 | 0.1 | 5591.95 |
| Cu 324.754 | 99.9683 | ppb | 0.7740 | 0.8 | 7656.55 |
| Fe 271.441 | 4955.11 | ppb | 16.2983 | 0.3 | 7830.01 |
| K 766.491 | 4999.30 | ppb | 7.2232 | 0.1 | 224169 |
| Mg 279.078 | 4825.29 | ppb | 6.1561 | 0.1 | 13155.1 |
| Mn 257.610 | 497.899 | ppb | 1.7109 | 0.3 | 98011.4 |
| Mo 202.032 | 98.2499 | ppb | 0.4954 | 0.5 | 678.555 |
| Na 330.237 | 4959.41 | ppb | 44.4850 | 0.9 | 244.597 |
| Ni 231.604 | 100.221 | ppb | 0.9892 | 1.0 | 308.111 |
| Pb 220.353 | 507.712 | ppb | 4.0133 | 0.8 | 810.235 |
| Sb 206.834 | 50.1940 | ppb | 0.2529 | 0.5 | 65.6947 |
| Se 196.026 | 95.4011 | ppb | 3.2441 | 3.4 | 45.8401 |
| Sn 189.925 | 205.273 | ppb | 2.7995 | 1.4 | 149.749 |
| Sr 216.596 | 99.8220 | ppb | 0.3372 | 0.3 | 1245.73 |
| Ti 334.941 | 100.980 | ppb | 0.0924 | 0.1 | 29408.5 |
| Tl 190.794 | 38.1792 | ppb | 2.5742 | 6.7 | 34.5676 |
| V 292.401 | 96.0694 | ppb | 0.1811 | 0.2 | 2480.66 |
| Zn 206.200 | 102.412 | ppb | 2.7712 | 2.7 | 112.219 |

**lcsd 680-354062/3-a (Samp)** **10/18/2014, 2:16:41 AM** **Rack 3, Tube 48**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 51.2507 | 51.1477 | 51.5176 |
| Al 308.215 | 5014.54 | 5000.19 | 5027.14 |
| As 188.980 | 96.6503 | 99.9402 | 95.6213 |
| B 249.678 | 196.271 | 195.051 | 196.384 |
| Ba 389.178 | 104.841 | 104.457 | 104.508 |
| Be 313.042 | 51.9299 | 51.6940 | 52.0595 |
| Ca 370.602 | 4911 | 4880 | 4900 |
| Cd 226.502 | 53.4919 | 53.3791 | 53.5812 |
| Co 228.615 | 51.1043 | 50.4190 | 51.4381 |
| Cr 267.716 | 104.076 | 103.936 | 104.535 |
| Cu 324.754 | 103.704 | 104.500 | 103.893 |
| Fe 271.441 | 5197.42 | 5159.59 | 5200.49 |
| K 766.491 | 5187.18 | 5173.28 | 5193.50 |
| Mg 279.078 | 4983.40 | 4961.98 | 4989.41 |
| Mn 257.610 | 513.494 | 510.755 | 512.461 |
| Mo 202.032 | 101.757 | 100.471 | 101.605 |
| Na 330.237 | 5143.09 | 5011.84 | 4795.16 |
| Ni 231.604 | 103.493 | 101.344 | 104.168 |
| Pb 220.353 | 527.000 | 521.375 | 529.299 |
| Sb 206.834 | 53.3561 | 51.1869 | 48.1924 |
| Se 196.026 | 103.787 | 100.558 | 97.8619 |
| Sn 189.925 | 208.198 | 209.821 | 207.958 |
| Sr 216.596 | 103.483 | 102.869 | 103.196 |
| Ti 334.941 | 104.216 | 103.977 | 104.531 |
| Tl 190.794 | 42.8434 | 40.6238 | 38.4645 |
| V 292.401 | 99.8077 | 100.015 | 99.6873 |
| Zn 206.200 | 107.841 | 103.179 | 104.314 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 51.3053 | ppb | 0.1909 | 0.4 | 4369.99 |
| Al 308.215 | 5013.96 | ppb | 13.4864 | 0.3 | 34239.8 |
| As 188.980 | 97.4039 | ppb | 2.2559 | 2.3 | 60.3187 |
| B 249.678 | 195.902 | ppb | 0.7395 | 0.4 | 3304.24 |
| Ba 389.178 | 104.602 | ppb | 0.2089 | 0.2 | 2181.39 |
| Be 313.042 | 51.8945 | ppb | 0.1853 | 0.4 | 93656.9 |
| Ca 370.602 | 4897 | ppb | 15.80 | 0.3 | 14222 |
| Cd 226.502 | 53.4841 | ppb | 0.1013 | 0.2 | 2283.96 |
| Co 228.615 | 50.9871 | ppb | 0.5196 | 1.0 | 605.873 |
| Cr 267.716 | 104.182 | ppb | 0.3137 | 0.3 | 5774.16 |
| Cu 324.754 | 104.032 | ppb | 0.4158 | 0.4 | 7957.91 |
| Fe 271.441 | 5185.83 | ppb | 22.7782 | 0.4 | 8193.77 |
| K 766.491 | 5184.65 | ppb | 10.3440 | 0.2 | 232471 |
| Mg 279.078 | 4978.26 | ppb | 14.4227 | 0.3 | 13571.4 |
| Mn 257.610 | 512.236 | ppb | 1.3833 | 0.3 | 100833 |
| Mo 202.032 | 101.278 | ppb | 0.7027 | 0.7 | 699.265 |
| Na 330.237 | 4983.36 | ppb | 175.704 | 3.5 | 245.541 |
| Ni 231.604 | 103.002 | ppb | 1.4748 | 1.4 | 316.826 |
| Pb 220.353 | 525.891 | ppb | 4.0766 | 0.8 | 838.912 |
| Sb 206.834 | 50.9118 | ppb | 2.5928 | 5.1 | 66.7176 |
| Se 196.026 | 100.736 | ppb | 2.9664 | 2.9 | 48.3573 |
| Sn 189.925 | 208.659 | ppb | 1.0134 | 0.5 | 152.314 |
| Sr 216.596 | 103.183 | ppb | 0.3070 | 0.3 | 1287.55 |

 

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 104.241 | ppb | 0.2779 | 0.3 | 30359.3 |
| Tl 190.794 | 40.6439 | ppb | 2.1895 | 5.4 | 37.3018 |
| V 292.401 | 99.8366 | ppb | 0.1657 | 0.2 | 2578.56 |
| Zn 206.200 | 105.111 | ppb | 2.4312 | 2.3 | 115.163 |

**Cont Calib Verif (CCV)** **10/18/2014, 2:20:59 AM** **Rack 3, Tube 49**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 500.070 | 499.861 | 501.443 |
| Al 308.215 | 4876.48 | 4860.15 | 4880.88 |
| As 188.980 | 456.459 | 462.487 | 462.490 |
| B 249.678 | 487.946 | 487.489 | 492.684 |
| Ba 389.178 | 5047.21 | 5036.90 | 5069.39 |
| Be 313.042 | 496.985 | 495.442 | 497.134 |
| Ca 370.602 | 4807 | 4795 | 4828 |
| Cd 226.502 | 507.758 | 506.173 | 507.926 |
| Co 228.615 | 497.464 | 495.263 | 496.656 |
| Cr 267.716 | 4979.95 | 4961.28 | 4984.56 |
| Cu 324.754 | 5021.08 | 5063.51 | 4960.24 |
| Fe 271.441 | 4949.11 | 4930.38 | 4954.76 |
| K 766.491 | 10033.1 | 9982.75 | 10062.0 |
| Mg 279.078 | 4890.72 | 4879.08 | 4895.73 |
| Mn 257.610 | 4925.25 | 4914.11 | 4912.97 |
| Mo 202.032 | 492.948 | 492.014 | 494.261 |
| Na 330.237 | 7729.73 | 7721.79 | 7645.02 |
| Ni 231.604 | 2531.20 | 2525.45 | 2530.13 |
| Pb 220.353 | 505.918 | 505.032 | 509.641 |
| Sb 206.834 | 945.596 | 944.882 | 947.235 |
| Se 196.026 | 4805.41 | 4797.06 | 4827.76 |
| Sn 189.925 | 5031.04 | 4957.99 | 4975.74 |
| Sr 216.596 | 2518.61 | 2514.05 | 2522.25 |
| Ti 334.941 | 495.587 | 494.018 | 496.780 |
| Tl 190.794 | 5007.04 | 5006.05 | 5003.87 |
| V 292.401 | 4835.47 | 4818.09 | 4841.66 |
| Zn 206.200 | 2482.29 | 2476.26 | 2477.98 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 500.458 | ppb | 0.8598 | 0.2 | 42651.5 | 100.09160 |
| Al 308.215 | 4872.50 | ppb | 10.9238 | 0.2 | 33792.8 | 97.45008 |
| As 188.980 | 460.478 | ppb | 3.4809 | 0.8 | 304.560 | 92.09570 |
| B 249.678 | 489.373 | ppb | 2.8768 | 0.6 | 8222.77 | 97.87458 |
| Ba 389.178 | 5051.17 | ppb | 16.6001 | 0.3 | 108676 | 101.02339 |
| Be 313.042 | 496.520 | ppb | 0.9366 | 0.2 | 898431 | 99.30405 |
| Ca 370.602 | 4810 | ppb | 16.74 | 0.3 | 14309 | 96.19793 |
| Cd 226.502 | 507.285 | ppb | 0.9673 | 0.2 | 21417.9 | 101.45705 |
| Co 228.615 | 496.461 | ppb | 1.1136 | 0.2 | 5846.92 | 99.29223 |
| Cr 267.716 | 4975.27 | ppb | 12.3273 | 0.2 | 273923 | 99.50533 |
| Cu 324.754 | 5014.94 | ppb | 51.9098 | 1.0 | 371845 | 100.29885 |
| Fe 271.441 | 4944.75 | ppb | 12.7642 | 0.3 | 7917.98 | 98.89501 |
| K 766.491 | 10025.9 | ppb | 40.0840 | 0.4 | 449320 | 100.25941 |
| Mg 279.078 | 4888.51 | ppb | 8.5412 | 0.2 | 13232.7 | 97.77022 |
| Mn 257.610 | 4917.44 | ppb | 6.7823 | 0.1 | 967254 | 98.34885 |
| Mo 202.032 | 493.074 | ppb | 1.1292 | 0.2 | 3375.74 | 98.61488 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Na 330.237 | 7698.85 | ppb | 46.7789 | 0.6 | 311.328 | 102.65128 |
| Ni 231.604 | 2528.93 | ppb | 3.0616 | 0.1 | 7902.79 | 101.15708 |
| Pb 220.353 | 506.863 | ppb | 2.4458 | 0.5 | 813.015 | 101.37267 |
| Sb 206.834 | 945.904 | ppb | 1.2063 | 0.1 | 1396.22 | 94.59042 |
| Se 196.026 | 4810.08 | ppb | 15.8703 | 0.3 | 2266.03 | 96.20152 |
| Sn 189.925 | 4988.26 | ppb | 38.1009 | 0.8 | 3772.90 | 99.76511 |
| Sr 216.596 | 2518.30 | ppb | 4.1100 | 0.2 | 31104.3 | 100.73213 |
| Ti 334.941 | 495.462 | ppb | 1.3857 | 0.3 | 144382 | 99.09233 |
| Tl 190.794 | 5005.66 | ppb | 1.6227 | 0.0 | 5600.30 | 100.11314 |
| V 292.401 | 4831.74 | ppb | 12.2220 | 0.3 | 125902 | 96.63480 |
| Zn 206.200 | 2478.85 | ppb | 3.1065 | 0.1 | 2707.89 | 99.15384 |

**Cont Calib Blank (CCB)** **10/18/2014, 2:25:18 AM** **Rack 3, Tube 50**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.3472u | -0.0108u | 0.0123 |
| Al 308.215 | -4.4518u | -5.0104u | -5.5454u |
| As 188.980 | -2.8069u | 0.6631 | -1.6651u |
| B 249.678 | 9.4675 | 8.8580 | 7.8544 |
| Ba 389.178 | 0.9019 | 0.2481 | 0.8930 |
| Be 313.042 | 0.0255 | 0.0220 | 0.0169 |
| Ca 370.602 | 6.239 | 2.220 | -0.9827u |
| Cd 226.502 | 0.2366 | 0.2380 | 0.2209 |
| Co 228.615 | 0.0842 | -0.1163u | -0.1064u |
| Cr 267.716 | 0.6517 | 0.5495 | 0.5916 |
| Cu 324.754 | 0.3736 | 0.3122 | 0.8191 |
| Fe 271.441 | 0.7856 | 5.3914 | 0.3876 |
| K 766.491 | 1.8591 | 1.5143 | 1.2365 |
| Mg 279.078 | 0.3734 | 1.2530 | 0.8893 |
| Mn 257.610 | 0.6795 | 0.7557 | 0.5883 |
| Mo 202.032 | 0.4895 | 0.6540 | 0.6339 |
| Na 330.237 | 56.2162 | 11.6665 | -140.458u |
| Ni 231.604 | -0.9109u | 0.8219 | 0.0440 |
| Pb 220.353 | 0.0865 | -2.9903u | 3.3594 |
| Sb 206.834 | 7.6077 | 4.8648 | 3.9316 |
| Se 196.026 | 3.8036 | 1.1773 | -4.5300u |
| Sn 189.925 | 0.7170 | -1.6087u | 0.9141 |
| Sr 216.596 | 0.3088 | 0.3479 | 0.1244 |
| Ti 334.941 | 0.0941 | 0.0755 | 0.0859 |
| Tl 190.794 | 2.5274 | 0.7235 | 3.2503 |
| V 292.401 | 0.5064 | 0.3541 | 0.2106 |
| Zn 206.200 | 1.1038 | 2.2267 | 1.8368 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | -0.1152 | ppb | 0.2012 | 174.6 | -16.6672 | -0.11523 |
| Al 308.215 | -5.0025 | ppb | 0.5468 | 10.9 | 569.749 | -5.00252 |
| As 188.980 | -1.2697 | ppb | 1.7685 | 139.3 | -6.0801 | -1.26965 |
| B 249.678 | 8.7266 | ppb | 0.8145 | 9.3 | 187.592 | 8.72664 |
| Ba 389.178 | 0.6810 | ppb | 0.3749 | 55.1 | -65.9363 | 0.68100 |
| Be 313.042 | 0.0215 | ppb | 0.0043 | 20.0 | -201.148 | 0.02146 |
| Ca 370.602 | 2.492 | ppb | 3.619 | 145.2 | 27.63 | 2.49211 |
| Cd 226.502 | 0.2319 | ppb | 0.0095 | 4.1 | 19.2915 | 0.23185 |
| Co 228.615 | -0.0461 | ppb | 0.1130 | 244.9 | 6.2676 | -0.04613 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Cr 267.716 | 0.5976 | ppb | 0.0514 | 8.6 | 67.2813 | 0.59757 |
| Cu 324.754 | 0.5016 | ppb | 0.2766 | 55.1 | 280.362 | 0.50163 |
| Fe 271.441 | 2.1882 | ppb | 2.7812 | 127.1 | 19.4912 | 2.18821 |
| K 766.491 | 1.5367 | ppb | 0.3119 | 20.3 | 311.959 | 1.53665 |
| Mg 279.078 | 0.8386 | ppb | 0.4420 | 52.7 | 25.7634 | 0.83858 |
| Mn 257.610 | 0.6745 | ppb | 0.0838 | 12.4 | 168.936 | 0.67453 |
| Mo 202.032 | 0.5925 | ppb | 0.0897 | 15.1 | 10.4487 | 0.59246 |
| Na 330.237 | -24.1917 | ppb | 103.124 | 426.3 | 24.6698 | -24.19170 |
| Ni 231.604 | -0.0150 | ppb | 0.8679 | 5784.1 | -5.6818 | -0.01500 |
| Pb 220.353 | 0.1519 | ppb | 3.1753 | 2091.0 | 9.7262 | 0.15185 |
| Sb 206.834 | 5.4680 | ppb | 1.9108 | 34.9 | 2.1516 | 5.46801 |
| Se 196.026 | 0.1503 | ppb | 4.2607 | 2834.2 | 0.8388 | 0.15033 |
| Sn 189.925 | 0.0075 | ppb | 1.4031 | 18750.1 | -5.7430 | 0.00748 |
| Sr 216.596 | 0.2604 | ppb | 0.1194 | 45.8 | 9.5940 | 0.26039 |
| Ti 334.941 | 0.0852 | ppb | 0.0094 | 11.0 | -6.8548 | 0.08518 |
| Tl 190.794 | 2.1671 | ppb | 1.3014 | 60.1 | -5.2649 | 2.16709 |
| V 292.401 | 0.3570 | ppb | 0.1479 | 41.4 | -2.1116 | 0.35703 |
| Zn 206.200 | 1.7224 | ppb | 0.5701 | 33.1 | 2.1328 | 1.72243 |

**680-106225-a-6-d (Samp)** **10/18/2014, 2:29:36 AM** **Rack 3, Tube 51**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1472 | 0.2765 | 0.1121 |
| Al 308.215 | 1348.60 | 1345.14 | 1347.83 |
| As 188.980 | 12.0911 | 14.3183 | 11.0829 |
| B 249.678 | 24.5544 | 24.2173 | 24.6356 |
| Ba 389.178 | 371.414 | 371.026 | 371.617 |
| Be 313.042 | 0.1261 | 0.1212 | 0.1218 |
| Ca 370.602 | 2647 | 2646 | 2640 |
| Cd 226.502 | 7.8530 | 7.7828 | 7.7315 |
| Co 228.615 | 0.6911 | 1.0255 | 0.8047 |
| Cr 267.716 | 18.4849 | 18.4265 | 18.4309 |
| Cu 324.754 | 564.903 | 565.411 | 569.649 |
| Fe 271.441 | 6360.25 | 6349.38 | 6336.20 |
| K 766.491 | 188.814 | 188.042 | 188.474 |
| Mg 279.078 | 343.066 | 344.909 | 344.672 |
| Mn 257.610 | 40.5542 | 40.3802 | 40.2803 |
| Mo 202.032 | 2.7810 | 2.6216 | 2.8033 |
| Na 330.237 | 237.967u | 353.446u | 413.016u |
| Ni 231.604 | 25.7118 | 26.9086 | 26.7571 |
| Pb 220.353 | 270.599 | 265.800 | 272.260 |
| Sb 206.834 | 0.8331 | 2.2099 | 2.8834 |
| Se 196.026 | 2.2173 | -0.2746u | 0.9312 |
| Sn 189.925 | 27.8269 | 26.0802 | 25.0270 |
| Sr 216.596 | 25.5619 | 25.7491 | 25.0987 |
| Ti 334.941 | 32.7436 | 32.7572 | 32.6321 |
| Tl 190.794 | -1.1611u | 1.6624 | -1.6366u |
| V 292.401 | 35.9786 | 36.1235 | 36.1578 |
| Zn 206.200 | 784.217 | 776.198 | 784.331 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.1786 | ppb | 0.0866 | 48.5 | 6.7204 |
| Al 308.215 | 1347.19 | ppb | 1.8125 | 0.1 | 9648.86 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 12.4974 | ppb | 1.6555 | 13.2 | 3.1573 |
| B 249.678 | 24.4691 | ppb | 0.2218 | 0.9 | 435.927 |
| Ba 389.178 | 371.352 | ppb | 0.3000 | 0.1 | 7917.27 |
| Be 313.042 | 0.1230 | ppb | 0.0027 | 2.2 | -14.9337 |
| Ca 370.602 | 2644 | ppb | 3.322 | 0.1 | 7628 |
| Cd 226.502 | 7.7891 | ppb | 0.0610 | 0.8 | 361.371 |
| Co 228.615 | 0.8405 | ppb | 0.1700 | 20.2 | 17.8074 |
| Cr 267.716 | 18.4475 | ppb | 0.0325 | 0.2 | 1052.91 |
| Cu 324.754 | 566.654 | ppb | 2.6056 | 0.5 | 42239.8 |
| Fe 271.441 | 6348.61 | ppb | 12.0443 | 0.2 | 10018.7 |
| K 766.491 | 188.443 | ppb | 0.3871 | 0.2 | 8683.80 |
| Mg 279.078 | 344.216 | ppb | 1.0025 | 0.3 | 959.774 |
| Mn 257.610 | 40.4049 | ppb | 0.1386 | 0.3 | 8002.77 |
| Mo 202.032 | 2.7353 | ppb | 0.0991 | 3.6 | 24.7772 |
| Na 330.237 | 334.810 | ppb | 89.0003 | 26.6 | 21.0187 |
| Ni 231.604 | 26.4592 | ppb | 0.6517 | 2.5 | 77.6626 |
| Pb 220.353 | 269.553 | ppb | 3.3543 | 1.2 | 434.893 |
| Sb 206.834 | 1.9755 | ppb | 1.0451 | 52.9 | -2.4528 |
| Se 196.026 | 0.9580 | ppb | 1.2462 | 130.1 | 1.2872 |
| Sn 189.925 | 26.3114 | ppb | 1.4142 | 5.4 | 14.1824 |
| Sr 216.596 | 25.4699 | ppb | 0.3348 | 1.3 | 329.584 |
| Ti 334.941 | 32.7110 | ppb | 0.0686 | 0.2 | 9503.54 |
| Tl 190.794 | -0.3785 | ppb | 1.7833 | 471.2 | -8.9067 |
| V 292.401 | 36.0866 | ppb | 0.0951 | 0.3 | 932.781 |
| Zn 206.200 | 781.582 | ppb | 4.6630 | 0.6 | 858.715 |

**680-106225-a-6-dSD (Samp)** **10/18/2014, 2:33:54 AM** **Rack 3, Tube 52**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0998 | -0.1519u | -0.2379u |
| Al 308.215 | 299.303 | 290.773 | 287.845 |
| As 188.980 | -2.8011u | 1.0973 | 2.7138 |
| B 249.678 | 6.8727 | 6.5894 | 6.2214 |
| Ba 389.178 | 83.0326 | 80.9118 | 79.4677 |
| Be 313.042 | 0.0027 | 0.0057 | -0.0013u |
| Ca 370.602 | 585.2 | 575.9 | 562.7 |
| Cd 226.502 | 1.8183 | 1.7420 | 1.8639 |
| Co 228.615 | -0.2001u | 0.4315 | 0.2489 |
| Cr 267.716 | 4.1319 | 4.1624 | 3.9129 |
| Cu 324.754 | 122.164 | 117.994 | 117.584 |
| Fe 271.441 | 1423.50 | 1387.66 | 1374.02 |
| K 766.491 | 43.2091 | 43.1307 | 41.7019 |
| Mg 279.078 | 82.0328 | 78.5294 | 76.6999 |
| Mn 257.610 | 8.9925 | 8.7914 | 8.6103 |
| Mo 202.032 | 0.6738 | 0.8340 | 1.0936 |
| Na 330.237 | 307.846 | 123.462 | 163.722 |
| Ni 231.604 | 5.6371 | 5.6769 | 6.4655 |
| Pb 220.353 | 58.4902 | 60.1452 | 58.6207 |
| Sb 206.834 | 6.9628 | 3.3996 | 3.4556 |
| Se 196.026 | -1.8942u | 0.0459 | -1.7135u |
| Sn 189.925 | 4.2754 | 3.3221 | 6.4668 |
| Sr 216.596 | 6.0284 | 5.7212 | 5.4181 |
| Ti 334.941 | 7.2784 | 7.0711 | 6.9458 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -0.5203u | -0.5426u | 0.2029 |
| V 292.401 | 7.5731 | 7.4677 | 7.5220 |
| Zn 206.200 | 170.533 | 170.925 | 168.996 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0967 | ppb | 0.1755 | 181.5 | -15.4583 |
| Al 308.215 | 292.640 | ppb | 5.9530 | 2.0 | 2568.15 |
| As 188.980 | 0.3367 | ppb | 2.8351 | 842.0 | -5.0051 |
| B 249.678 | 6.5611 | ppb | 0.3266 | 5.0 | 148.158 |
| Ba 389.178 | 81.1374 | ppb | 1.7931 | 2.2 | 1666.88 |
| Be 313.042 | 0.0023 | ppb | 0.0035 | 150.1 | -235.259 |
| Ca 370.602 | 574.6 | ppb | 11.32 | 2.0 | 1673 |
| Cd 226.502 | 1.8080 | ppb | 0.0616 | 3.4 | 90.8990 |
| Co 228.615 | 0.1601 | ppb | 0.3251 | 203.1 | 8.9358 |
| Cr 267.716 | 4.0691 | ppb | 0.1361 | 3.3 | 259.047 |
| Cu 324.754 | 119.247 | ppb | 2.5346 | 2.1 | 9081.02 |
| Fe 271.441 | 1395.06 | ppb | 25.5580 | 1.8 | 2214.08 |
| K 766.491 | 42.6806 | ppb | 0.8485 | 2.0 | 2154.86 |
| Mg 279.078 | 79.0874 | ppb | 2.7099 | 3.4 | 238.627 |
| Mn 257.610 | 8.7981 | ppb | 0.1912 | 2.2 | 1771.01 |
| Mo 202.032 | 0.8671 | ppb | 0.2119 | 24.4 | 12.2550 |
| Na 330.237 | 198.343 | ppb | 96.9448 | 48.9 | 30.3602 |
| Ni 231.604 | 5.9265 | ppb | 0.4672 | 7.9 | 13.0196 |
| Pb 220.353 | 59.0854 | ppb | 0.9202 | 1.6 | 102.735 |
| Sb 206.834 | 4.6060 | ppb | 2.0412 | 44.3 | 1.0006 |
| Se 196.026 | -1.1872 | ppb | 1.0718 | 90.3 | 0.2241 |
| Sn 189.925 | 4.6881 | ppb | 1.6125 | 34.4 | -2.1974 |
| Sr 216.596 | 5.7225 | ppb | 0.3051 | 5.3 | 78.9640 |
| Ti 334.941 | 7.0984 | ppb | 0.1680 | 2.4 | 2037.51 |
| Tl 190.794 | -0.2867 | ppb | 0.4242 | 148.0 | -8.1839 |
| V 292.401 | 7.5209 | ppb | 0.0527 | 0.7 | 185.398 |
| Zn 206.200 | 170.152 | ppb | 1.0193 | 0.6 | 187.132 |

**680-106225-a-6-dPDS (Samp)** **10/18/2014, 2:38:12 AM** **Rack 3, Tube 53**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 98.1088 | 98.0903 | 98.2210 |
| Al 308.215 | 2299.22 | 2303.33 | 2297.89 |
| As 188.980 | 107.986 | 113.734 | 112.271 |
| B 249.678 | 210.852 | 212.165 | 213.051 |
| Ba 389.178 | 452.008 | 452.388 | 452.054 |
| Be 313.042 | 100.689 | 100.903 | 100.870 |
| Ca 370.602 | 12117 | 12135 | 12157 |
| Cd 226.502 | 105.548 | 105.928 | 105.494 |
| Co 228.615 | 97.5123 | 98.6053 | 98.3361 |
| Cr 267.716 | 117.832 | 118.060 | 118.152 |
| Cu 324.754 | 659.949 | 661.137 | 655.918 |
| Fe 271.441 | 16108.9 | 16141.4 | 16143.8 |
| K 766.491 | 9602.98 | 9618.79 | 9605.05 |
| Mg 279.078 | 9709.65 | 9713.56 | 9692.13 |
| Mn 257.610 | 1036.07 | 1037.08 | 1037.27 |
| Mo 202.032 | 99.7395 | 99.7701 | 100.425 |
| Na 330.237 | 8500.94 | 8532.66 | 8464.57 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 123.260 | 123.966 | 123.740 |
| Pb 220.353 | 369.836 | 367.266 | 368.537 |
| Sb 206.834 | 97.1761 | 102.790 | 99.3026 |
| Se 196.026 | 89.9344 | 95.6909 | 93.6804 |
| Sn 189.925 | 126.471 | 123.453 | 124.409 |
| Sr 216.596 | 122.115 | 123.475 | 122.838 |
| Ti 334.941 | 131.573 | 131.877 | 131.803 |
| Tl 190.794 | 15.6009 | 17.1222 | 18.3768 |
| V 292.401 | 131.681 | 132.199 | 132.207 |
| Zn 206.200 | 872.986 | 874.114 | 869.289 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 98.1400 | ppb | 0.0707 | 0.1 | 8367.10 |
| Al 308.215 | 2300.15 | ppb | 2.8381 | 0.1 | 16068.6 |
| As 188.980 | 111.331 | ppb | 2.9871 | 2.7 | 69.5907 |
| B 249.678 | 212.023 | ppb | 1.1061 | 0.5 | 3549.03 |
| Ba 389.178 | 452.150 | ppb | 0.2076 | 0.0 | 9675.18 |
| Be 313.042 | 100.821 | ppb | 0.1155 | 0.1 | 182195 |
| Ca 370.602 | 12136 | ppb | 19.90 | 0.2 | 35112 |
| Cd 226.502 | 105.657 | ppb | 0.2365 | 0.2 | 4524.23 |
| Co 228.615 | 98.1512 | ppb | 0.5695 | 0.6 | 1161.68 |
| Cr 267.716 | 118.015 | ppb | 0.1645 | 0.1 | 6542.83 |
| Cu 324.754 | 659.001 | ppb | 2.7352 | 0.4 | 49090.4 |
| Fe 271.441 | 16131.4 | ppb | 19.4814 | 0.1 | 25444.5 |
| K 766.491 | 9608.94 | ppb | 8.5918 | 0.1 | 430642 |
| Mg 279.078 | 9705.12 | ppb | 11.4102 | 0.1 | 26437.5 |
| Mn 257.610 | 1036.81 | ppb | 0.6424 | 0.1 | 204069 |
| Mo 202.032 | 99.9783 | ppb | 0.3874 | 0.4 | 689.820 |
| Na 330.237 | 8499.39 | ppb | 34.0725 | 0.4 | 382.851 |
| Ni 231.604 | 123.656 | ppb | 0.3605 | 0.3 | 382.243 |
| Pb 220.353 | 368.546 | ppb | 1.2848 | 0.3 | 591.690 |
| Sb 206.834 | 99.7562 | ppb | 2.8342 | 2.8 | 137.038 |
| Se 196.026 | 93.1019 | ppb | 2.9215 | 3.1 | 44.9905 |
| Sn 189.925 | 124.778 | ppb | 1.5425 | 1.2 | 88.7745 |
| Sr 216.596 | 122.809 | ppb | 0.6805 | 0.6 | 1546.10 |
| Ti 334.941 | 131.751 | ppb | 0.1590 | 0.1 | 38386.6 |
| Tl 190.794 | 17.0333 | ppb | 1.3901 | 8.2 | 9.8831 |
| V 292.401 | 132.029 | ppb | 0.3014 | 0.2 | 3423.54 |
| Zn 206.200 | 872.130 | ppb | 2.5240 | 0.3 | 957.437 |

**X (Samp)** **10/18/2014, 2:42:31 AM** **Rack 3, Tube 54**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 10.8167 | 10.7418 | 10.9046 |
| Al 308.215 | 201.802 | 203.097 | 202.242 |
| As 188.980 | 17.2508 | 17.8318 | 19.9114 |
| B 249.678 | 105.605 | 105.997 | 106.205 |
| Ba 389.178 | 11.4760 | 10.2335 | 11.6605 |
| Be 313.042 | 4.2377 | 4.2392 | 4.2472 |
| Ca 370.602 | 516.8 | 511.2 | 516.2 |
| Cd 226.502 | 5.6283 | 5.6441 | 5.6522 |
| Co 228.615 | 10.2161 | 9.7273 | 10.6550 |
| Cr 267.716 | 10.6688 | 10.5491 | 10.6152 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 21.7701 | 22.1627 | 22.1584 |
| Fe 271.441 | 59.1842 | 61.6220 | 55.0724 |
| K 766.491 | 1079.86 | 1084.84 | 1082.33 |
| Mg 279.078 | 518.933 | 513.399 | 520.606 |
| Mn 257.610 | 11.0397 | 11.0632 | 11.1542 |
| Mo 202.032 | 10.4204 | 9.9356 | 11.0166 |
| Na 330.237 | 1058.39 | 1184.35 | 1122.51 |
| Ni 231.604 | 41.0943 | 43.1985 | 42.9914 |
| Pb 220.353 | 13.1285 | 14.5977 | 11.4649 |
| Sb 206.834 | 20.6997 | 23.4975 | 24.1814 |
| Se 196.026 | 22.2926 | 16.6843 | 17.4045 |
| Sn 189.925 | 51.4229 | 51.2147 | 49.7883 |
| Sr 216.596 | 10.8265 | 10.4629 | 10.4506 |
| Ti 334.941 | 10.6367 | 10.5833 | 10.6198 |
| Tl 190.794 | 23.7636 | 22.9193 | 23.1324 |
| V 292.401 | 10.2241 | 9.9624 | 9.8689 |
| Zn 206.200 | 23.5490 | 22.6566 | 23.0629 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 10.8210 | ppb | 0.0815 | 0.8 | 916.340 |
| Al 308.215 | 202.381 | ppb | 0.6585 | 0.3 | 1961.56 |
| As 188.980 | 18.3313 | ppb | 1.3988 | 7.6 | 7.1107 |
| B 249.678 | 105.935 | ppb | 0.3048 | 0.3 | 1812.25 |
| Ba 389.178 | 11.1233 | ppb | 0.7761 | 7.0 | 159.654 |
| Be 313.042 | 4.2414 | ppb | 0.0051 | 0.1 | 7434.02 |
| Ca 370.602 | 514.7 | ppb | 3.067 | 0.6 | 1518 |
| Cd 226.502 | 5.6415 | ppb | 0.0122 | 0.2 | 247.607 |
| Co 228.615 | 10.1995 | ppb | 0.4641 | 4.6 | 126.617 |
| Cr 267.716 | 10.6110 | ppb | 0.0599 | 0.6 | 618.545 |
| Cu 324.754 | 22.0304 | ppb | 0.2254 | 1.0 | 1876.13 |
| Fe 271.441 | 58.6262 | ppb | 3.3103 | 5.6 | 109.789 |
| K 766.491 | 1082.35 | ppb | 2.4859 | 0.2 | 48723.0 |
| Mg 279.078 | 517.646 | ppb | 3.7719 | 0.7 | 1433.26 |
| Mn 257.610 | 11.0857 | ppb | 0.0605 | 0.5 | 2220.42 |
| Mo 202.032 | 10.4575 | ppb | 0.5415 | 5.2 | 77.9599 |
| Na 330.237 | 1121.75 | ppb | 62.9809 | 5.6 | 75.5357 |
| Ni 231.604 | 42.4281 | ppb | 1.1597 | 2.7 | 127.038 |
| Pb 220.353 | 13.0637 | ppb | 1.5674 | 12.0 | 30.0729 |
| Sb 206.834 | 22.7928 | ppb | 1.8447 | 8.1 | 26.8476 |
| Se 196.026 | 18.7938 | ppb | 3.0514 | 16.2 | 9.6170 |
| Sn 189.925 | 50.8086 | ppb | 0.8897 | 1.8 | 32.7396 |
| Sr 216.596 | 10.5800 | ppb | 0.2136 | 2.0 | 136.268 |
| Ti 334.941 | 10.6133 | ppb | 0.0273 | 0.3 | 3062.48 |
| Tl 190.794 | 23.2717 | ppb | 0.4391 | 1.9 | 18.3483 |
| V 292.401 | 10.0185 | ppb | 0.1841 | 1.8 | 248.355 |
| Zn 206.200 | 23.0895 | ppb | 0.4468 | 1.9 | 25.5767 |

**CRI (Samp)** **10/18/2014, 2:46:49 AM** **Rack 3, Tube 55**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 10.6761 | 10.5739 | 10.7380 |
| Al 308.215 | 204.112 | 201.146 | 205.214 |
| As 188.980 | 17.9230 | 15.0724 | 20.8772 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 105.260 | 105.216 | 105.785 |
| Ba 389.178 | 10.0110 | 10.2145 | 10.3213 |
| Be 313.042 | 4.2252 | 4.2033 | 4.2220 |
| Ca 370.602 | 517.7 | 514.8 | 510.5 |
| Cd 226.502 | 5.4759 | 5.2639 | 5.4556 |
| Co 228.615 | 10.6278 | 10.4377 | 10.2422 |
| Cr 267.716 | 10.5616 | 10.5345 | 10.7860 |
| Cu 324.754 | 21.9888 | 21.5451 | 21.8150 |
| Fe 271.441 | 57.1705 | 50.2892 | 51.3861 |
| K 766.491 | 1073.39 | 1070.86 | 1076.77 |
| Mg 279.078 | 521.283 | 514.939 | 517.342 |
| Mn 257.610 | 10.9128 | 10.8751 | 10.8602 |
| Mo 202.032 | 10.3859 | 10.2672 | 10.9392 |
| Na 330.237 | 1207.56 | 1003.87 | 1113.66 |
| Ni 231.604 | 40.9363 | 43.0408 | 42.2507 |
| Pb 220.353 | 13.7021 | 12.0053 | 12.7801 |
| Sb 206.834 | 18.6780 | 23.7594 | 25.3069 |
| Se 196.026 | 20.4460 | 22.5086 | 16.8929 |
| Sn 189.925 | 54.7746 | 52.9778 | 50.9160 |
| Sr 216.596 | 10.0878 | 10.0301 | 10.3219 |
| Ti 334.941 | 10.5468 | 10.5387 | 10.5647 |
| Tl 190.794 | 27.0798 | 22.9434 | 25.8518 |
| V 292.401 | 10.1830 | 10.0336 | 10.2186 |
| Zn 206.200 | 22.1248 | 21.6860 | 22.4370 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 10.6627 | ppb | 0.0829 | 0.8 | 902.835 |
| Al 308.215 | 203.491 | ppb | 2.1040 | 1.0 | 1968.99 |
| As 188.980 | 17.9575 | ppb | 2.9025 | 16.2 | 6.8592 |
| B 249.678 | 105.420 | ppb | 0.3168 | 0.3 | 1803.65 |
| Ba 389.178 | 10.1822 | ppb | 0.1576 | 1.5 | 139.393 |
| Be 313.042 | 4.2168 | ppb | 0.0118 | 0.3 | 7389.65 |
| Ca 370.602 | 514.3 | ppb | 3.623 | 0.7 | 1517 |
| Cd 226.502 | 5.3985 | ppb | 0.1170 | 2.2 | 237.349 |
| Co 228.615 | 10.4359 | ppb | 0.1928 | 1.8 | 129.395 |
| Cr 267.716 | 10.6274 | ppb | 0.1381 | 1.3 | 619.445 |
| Cu 324.754 | 21.7830 | ppb | 0.2236 | 1.0 | 1857.79 |
| Fe 271.441 | 52.9486 | ppb | 3.6971 | 7.0 | 100.890 |
| K 766.491 | 1073.67 | ppb | 2.9663 | 0.3 | 48334.6 |
| Mg 279.078 | 517.855 | ppb | 3.2026 | 0.6 | 1433.83 |
| Mn 257.610 | 10.8827 | ppb | 0.0271 | 0.2 | 2180.48 |
| Mo 202.032 | 10.5308 | ppb | 0.3587 | 3.4 | 78.4615 |
| Na 330.237 | 1108.36 | ppb | 101.951 | 9.2 | 74.9649 |
| Ni 231.604 | 42.0759 | ppb | 1.0631 | 2.5 | 125.936 |
| Pb 220.353 | 12.8292 | ppb | 0.8494 | 6.6 | 29.7030 |
| Sb 206.834 | 22.5814 | ppb | 3.4679 | 15.4 | 26.5471 |
| Se 196.026 | 19.9492 | ppb | 2.8406 | 14.2 | 10.1608 |
| Sn 189.925 | 52.8894 | ppb | 1.9308 | 3.7 | 34.3159 |
| Sr 216.596 | 10.1466 | ppb | 0.1546 | 1.5 | 130.911 |
| Ti 334.941 | 10.5501 | ppb | 0.0133 | 0.1 | 3044.06 |
| Tl 190.794 | 25.2917 | ppb | 2.1244 | 8.4 | 20.6088 |
| V 292.401 | 10.1451 | ppb | 0.0981 | 1.0 | 251.677 |
| Zn 206.200 | 22.0826 | ppb | 0.3773 | 1.7 | 24.4705 |

**CCV (Samp)** **10/18/2014, 2:51:07 AM** **Rack 3, Tube 56**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 498.014 | 495.271 | 500.156 |
| Al 308.215 | 4830.92 | 4816.89 | 4835.73 |
| As 188.980 | 461.559 | 463.113 | 471.295 |
| B 249.678 | 480.890 | 481.936 | 486.785 |
| Ba 389.178 | 5006.45 | 5000.39 | 5010.63 |
| Be 313.042 | 492.264 | 488.523 | 490.735 |
| Ca 370.602 | 4729 | 4721 | 4768 |
| Cd 226.502 | 501.382 | 501.255 | 503.901 |
| Co 228.615 | 490.077 | 489.601 | 493.390 |
| Cr 267.716 | 4920.19 | 4913.79 | 4933.25 |
| Cu 324.754 | 4958.41 | 4945.48 | 5016.46 |
| Fe 271.441 | 4880.36 | 4895.19 | 4892.79 |
| K 766.491 | 9981.97 | 9944.25 | 9970.68 |
| Mg 279.078 | 4831.83 | 4828.67 | 4847.65 |
| Mn 257.610 | 4822.98 | 4822.34 | 4867.31 |
| Mo 202.032 | 488.359 | 486.957 | 488.957 |
| Na 330.237 | 7611.11 | 7472.58 | 7627.84 |
| Ni 231.604 | 2494.42 | 2496.23 | 2508.28 |
| Pb 220.353 | 498.892 | 502.374 | 503.679 |
| Sb 206.834 | 936.076 | 939.563 | 942.437 |
| Se 196.026 | 4773.00 | 4767.64 | 4806.42 |
| Sn 189.925 | 4921.54 | 4895.19 | 4959.11 |
| Sr 216.596 | 2483.26 | 2484.46 | 2497.91 |
| Ti 334.941 | 491.640 | 490.062 | 491.877 |
| Tl 190.794 | 4940.59 | 4919.95 | 4943.48 |
| V 292.401 | 4784.51 | 4770.67 | 4794.99 |
| Zn 206.200 | 2437.32 | 2445.60 | 2463.02 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 497.814 | ppb | 2.4487 | 0.5 | 42426.0 |
| Al 308.215 | 4827.85 | ppb | 9.7873 | 0.2 | 33488.5 |
| As 188.980 | 465.322 | ppb | 5.2308 | 1.1 | 307.822 |
| B 249.678 | 483.204 | ppb | 3.1452 | 0.7 | 8119.68 |
| Ba 389.178 | 5005.82 | ppb | 5.1471 | 0.1 | 107699 |
| Be 313.042 | 490.507 | ppb | 1.8809 | 0.4 | 887549 |
| Ca 370.602 | 4739 | ppb | 25.11 | 0.5 | 14102 |
| Cd 226.502 | 502.179 | ppb | 1.4924 | 0.3 | 21202.4 |
| Co 228.615 | 491.023 | ppb | 2.0640 | 0.4 | 5783.00 |
| Cr 267.716 | 4922.41 | ppb | 9.9159 | 0.2 | 271013 |
| Cu 324.754 | 4973.45 | ppb | 37.8044 | 0.8 | 368771 |
| Fe 271.441 | 4889.45 | ppb | 7.9636 | 0.2 | 7829.82 |
| K 766.491 | 9965.63 | ppb | 19.3612 | 0.2 | 446619 |
| Mg 279.078 | 4836.05 | ppb | 10.1715 | 0.2 | 13091.1 |
| Mn 257.610 | 4837.54 | ppb | 25.7809 | 0.5 | 951539 |
| Mo 202.032 | 488.091 | ppb | 1.0267 | 0.2 | 3341.68 |
| Na 330.237 | 7570.51 | ppb | 85.2207 | 1.1 | 306.322 |
| Ni 231.604 | 2499.65 | ppb | 7.5361 | 0.3 | 7811.22 |
| Pb 220.353 | 501.648 | ppb | 2.4744 | 0.5 | 804.750 |
| Sb 206.834 | 939.359 | ppb | 3.1853 | 0.3 | 1386.43 |
| Se 196.026 | 4782.35 | ppb | 21.0131 | 0.4 | 2252.96 |
| Sn 189.925 | 4925.28 | ppb | 32.1229 | 0.7 | 3725.20 |
| Sr 216.596 | 2488.54 | ppb | 8.1382 | 0.3 | 30736.7 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 491.193 | ppb | 0.9865 | 0.2 | 143138 |
| Tl 190.794 | 4934.68 | ppb | 12.8330 | 0.3 | 5520.82 |
| V 292.401 | 4783.39 | ppb | 12.1989 | 0.3 | 124642 |
| Zn 206.200 | 2448.65 | ppb | 13.1185 | 0.5 | 2674.85 |

**CCB (Samp)** **10/18/2014, 2:55:25 AM** **Rack 3, Tube 57**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0333 | -0.4341u | -0.1209u |
| Al 308.215 | -2.8385u | -5.6292u | -5.4532u |
| As 188.980 | -1.6456u | 0.5214 | -2.5544u |
| B 249.678 | 9.7733 | 8.1347 | 7.7575 |
| Ba 389.178 | 0.3391 | 0.4783 | 0.4344 |
| Be 313.042 | 0.0158 | 0.0191 | 0.0170 |
| Ca 370.602 | 5.743 | 3.612 | 4.689 |
| Cd 226.502 | 0.1641 | 0.1133 | 0.1152 |
| Co 228.615 | 0.0627 | -0.2049u | -0.0269u |
| Cr 267.716 | 0.5241 | 0.5620 | 0.5660 |
| Cu 324.754 | 0.4954 | 0.4404 | 0.8244 |
| Fe 271.441 | 3.4520 | -4.2672u | -0.4668u |
| K 766.491 | 1.4924 | 0.7385 | 1.4793 |
| Mg 279.078 | 1.8486 | 0.3326 | 1.3840 |
| Mn 257.610 | 0.6352 | 0.6084 | 0.7010 |
| Mo 202.032 | 1.0055 | 0.7205 | 0.9596 |
| Na 330.237 | -0.2063u | 68.1916 | 64.6162 |
| Ni 231.604 | -0.3294u | 1.2227 | 1.0806 |
| Pb 220.353 | 2.2085 | 0.0485 | 2.7349 |
| Sb 206.834 | 3.7580 | 6.1202 | 1.1064 |
| Se 196.026 | 4.2769 | 2.0190 | 3.9160 |
| Sn 189.925 | 0.5918 | -0.4261u | -1.9150u |
| Sr 216.596 | 0.2203 | 0.4967 | 0.0131 |
| Ti 334.941 | 0.1342 | 0.0977 | 0.0791 |
| Tl 190.794 | 3.3260 | 3.9897 | 2.7103 |
| V 292.401 | 0.5807 | 0.5420 | 0.2077 |
| Zn 206.200 | 2.6058 | 0.0617 | 1.1448 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1739 | ppb | 0.2382 | 137.0 | -21.6690 |
| Al 308.215 | -4.6403 | ppb | 1.5629 | 33.7 | 572.210 |
| As 188.980 | -1.2262 | ppb | 1.5802 | 128.9 | -6.0509 |
| B 249.678 | 8.5552 | ppb | 1.0716 | 12.5 | 184.704 |
| Ba 389.178 | 0.4172 | ppb | 0.0712 | 17.1 | -71.6122 |
| Be 313.042 | 0.0173 | ppb | 0.0017 | 9.8 | -208.712 |
| Ca 370.602 | 4.681 | ppb | 1.066 | 22.8 | 33.99 |
| Cd 226.502 | 0.1309 | ppb | 0.0288 | 22.0 | 15.0320 |
| Co 228.615 | -0.0564 | ppb | 0.1362 | 241.7 | 6.1373 |
| Cr 267.716 | 0.5507 | ppb | 0.0231 | 4.2 | 64.6984 |
| Cu 324.754 | 0.5867 | ppb | 0.2076 | 35.4 | 286.681 |
| Fe 271.441 | -0.4274 | ppb | 3.8597 | 903.2 | 15.3782 |
| K 766.491 | 1.2367 | ppb | 0.4315 | 34.9 | 298.525 |
| Mg 279.078 | 1.1884 | ppb | 0.7767 | 65.4 | 26.7172 |
| Mn 257.610 | 0.6482 | ppb | 0.0476 | 7.3 | 163.756 |
| Mo 202.032 | 0.8952 | ppb | 0.1530 | 17.1 | 12.5208 |

E10172014.wvq. All Data Report 10/18/2014, 10:20:45 AM

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 44.2005 | ppb | 38.4990 | 87.1 | 27.7463 |
| Ni 231.604 | 0.6580 | ppb | 0.8580 | 130.4 | -3.5772 |
| Pb 220.353 | 1.6639 | ppb | 1.4236 | 85.6 | 12.1096 |
| Sb 206.834 | 3.6615 | ppb | 2.5082 | 68.5 | -0.4349 |
| Se 196.026 | 3.4040 | ppb | 1.2129 | 35.6 | 2.3702 |
| Sn 189.925 | -0.5831 | ppb | 1.2607 | 216.2 | -6.1904 |
| Sr 216.596 | 0.2434 | ppb | 0.2427 | 99.7 | 9.3598 |
| Ti 334.941 | 0.1037 | ppb | 0.0280 | 27.1 | -1.4682 |
| Tl 190.794 | 3.3420 | ppb | 0.6398 | 19.1 | -3.9519 |
| V 292.401 | 0.4435 | ppb | 0.2051 | 46.3 | 0.0881 |
| Zn 206.200 | 1.2708 | ppb | 1.2767 | 100.5 | 1.6366 |

**Blank (Blk)** **10/20/2014, 3:00:45 PM** **Rack S, Tube 1**

| Label | Replicates | | Concentration |
|---|---|---|---|
| Ag 328.068 | -0.1618 | 0.1402 | 0.0215 |
| Al 308.215 | 0.4719 | -1.2583 | 0.7864 |
| As 188.980 | -0.1736 | -3.1599 | 3.3335 |
| B 249.678 | 0.4781 | -0.3118 | -0.1663 |
| Ba 389.178 | -0.4884 | -0.1520 | 0.6403 |
| Be 313.042 | -0.0006 | -0.0004 | 0.0011 |
| Ca 370.602 | 1.766 | 0.0070 | -1.773 |
| Cd 226.502 | -0.0004 | -0.0595 | 0.0600 |
| Co 228.615 | 0.4102 | -0.1708 | -0.2394 |
| Cr 267.716 | 0.0481 | 0.0122 | -0.0602 |
| Cu 324.754 | 0.2257 | -0.2457 | 0.0200 |
| Fe 271.441 | -2.4194 | 0.8778 | 1.5416 |
| K 766.491 | 0.0154 | -0.3345 | 0.3191 |
| Mg 279.078 | -2.9458 | 0.8811 | 2.0647 |
| Mn 257.610 | 0.0724 | -0.0286 | -0.0438 |
| Mo 202.032 | 0.0182 | 0.0119 | -0.0301 |
| Na 330.237 | -47.4008 | -49.7064 | 97.1072 |
| Ni 231.604 | -0.7200 | 0.2854 | 0.4347 |
| Pb 220.353 | -0.8096 | 0.4261 | 0.3835 |
| Sb 206.834 | -0.6709 | 0.4473 | 0.2236 |
| Se 196.026 | -0.0273 | -3.4339 | 3.4612 |
| Sn 189.925 | -1.9117 | 0.3639 | 1.5478 |
| Sr 216.596 | -0.0671 | -0.0367 | 0.1038 |
| Ti 334.941 | 0.0343 | -0.0105 | -0.0238 |
| Tl 190.794 | -0.3142 | -0.3185 | 0.6327 |
| V 292.401 | -0.0534 | 0.2653 | -0.2119 |
| Zn 206.200 | -0.6635 | 0.7434 | -0.0799 |

| Label | Sol'n Conc. | Units | SD(Int) | %RSD(Int) | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0000 | ppb | 12.865 | 67.4 | -19.0854 |
| Al 308.215 | 0.0000 | ppb | 7.495 | 1.5 | 491.534 |
| As 188.980 | 0.0000 | ppb | 2.192 | 32.4 | -6.7699 |
| B 249.678 | 0.0000 | ppb | 7.053 | 18.3 | 38.5928 |
| Ba 389.178 | 0.0000 | ppb | 12.800 | 18.9 | -67.7712 |
| Be 313.042 | 0.0000 | ppb | 1.665 | 0.6 | -278.645 |
| Ca 370.602 | 0.0000 | ppb | 4.844 | 23.3 | 20.78 |
| Cd 226.502 | 0.0000 | ppb | 2.568 | 15.4 | 16.6449 |
| Co 228.615 | 0.0000 | ppb | 4.126 | 92.4 | 4.4633 |
| Cr 267.716 | 0.0000 | ppb | 3.010 | 8.7 | 34.5579 |
| Cu 324.754 | 0.0000 | ppb | 17.503 | 7.2 | 244.549 |
| Fe 271.441 | 0.0000 | ppb | 3.363 | 37.6 | 8.9386 |
| K 766.491 | 0.0000 | ppb | 14.672 | 7.4 | 197.906 |
| Mg 279.078 | 0.0000 | ppb | 7.122 | 32.0 | 22.2475 |
| Mn 257.610 | 0.0000 | ppb | 11.768 | 37.0 | 31.8487 |
| Mo 202.032 | 0.0000 | ppb | 0.180 | 3.2 | 5.5367 |
| Na 330.237 | 0.0000 | ppb | 3.972 | 15.6 | 25.4081 |
| Ni 231.604 | 0.0000 | ppb | 1.962 | 40.4 | -4.8569 |
| Pb 220.353 | 0.0000 | ppb | 1.115 | 9.5 | 11.7689 |
| Sb 206.834 | 0.0000 | ppb | 0.849 | 34.2 | -2.4868 |
| Se 196.026 | 0.0000 | ppb | 1.609 | 745.0 | -0.2159 |
| Sn 189.925 | 0.0000 | ppb | 1.337 | 28.7 | -4.6574 |
| Sr 216.596 | 0.0000 | ppb | 1.135 | 20.4 | 5.5694 |
| Ti 334.941 | 0.0000 | ppb | 8.993 | 19.4 | -46.3506 |

| Label | Sol'n Conc. | Units | SD(Int) | %RSD(Int) | Int. (c/s) |
|---|---|---|---|---|---|
| Tl 190.794 | 0.0000 | ppb | 0.602 | 7.3 | -8.3023 |
| V 292.401 | 0.0000 | ppb | 6.179 | 46.0 | -13.4225 |
| Zn 206.200 | 0.0000 | ppb | 0.775 | 76.5 | 1.0136 |

**HIGH STD (Std)** **10/20/2014, 3:05:00 PM** **Rack S, Tube 2**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 994.386 | 1003.25 | 1002.37 |
| Al 308.215 | 9990.50 | 9991.57 | 10017.9 |
| As 188.980 | 1000.41 | 998.896 | 1000.69 |
| B 249.678 | 993.406 | 998.724 | 1007.87 |
| Ba 389.178 | 9987.97 | 10000.9 | 10011.1 |
| Be 313.042 | 1000.81 | 998.933 | 1000.26 |
| Ca 370.602 | 10015 | 9982 | 10003 |
| Cd 226.502 | 998.505 | 998.632 | 1002.86 |
| Co 228.615 | 998.633 | 999.315 | 1002.05 |
| Cr 267.716 | 9985.78 | 9966.94 | 10047.3 |
| Cu 324.754 | 9921.93 | 10015.5 | 10062.5 |
| Fe 271.441 | 9993.35 | 9992.18 | 10014.5 |
| K 766.491 | 19978.6 | 19991.9 | 20029.5 |
| Mg 279.078 | 9991.16 | 10011.1 | 9997.72 |
| Mn 257.610 | 10028.1 | 9993.12 | 9978.83 |
| Mo 202.032 | 997.792 | 999.138 | 1003.07 |
| Na 330.237 | 14812.0 | 14987.7 | 15200.3 |
| Ni 231.604 | 4991.24 | 4993.20 | 5015.56 |
| Pb 220.353 | 1005.33 | 996.086 | 998.585 |
| Sb 206.834 | 1992.57 | 2006.07 | 2001.36 |
| Se 196.026 | 9987.77 | 9966.74 | 10045.5 |
| Sn 189.925 | 9952.63 | 10015.3 | 10032.1 |
| Sr 216.596 | 4995.63 | 4995.72 | 5008.65 |
| Ti 334.941 | 999.576 | 999.312 | 1001.11 |
| Tl 190.794 | 9989.55 | 9972.79 | 10037.7 |
| V 292.401 | 10004.8 | 9986.16 | 10009.0 |
| Zn 206.200 | 4996.17 | 4985.63 | 5018.20 |

| Label | Sol'n Conc. | Units | SD(Int) | %RSD(Int) | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 1000.00 | ppb | 412.828 | 0.5 | 84538.3 |
| Al 308.215 | 10000.0 | ppb | 105.727 | 0.2 | 68559.2 |
| As 188.980 | 1000.00 | ppb | 0.652 | 0.1 | 667.749 |
| B 249.678 | 1000.00 | ppb | 122.758 | 0.7 | 16817.1 |
| Ba 389.178 | 10000.0 | ppb | 255.896 | 0.1 | 220811 |
| Be 313.042 | 1000.00 | ppb | 1746.127 | 0.1 | 1810981 |
| Ca 370.602 | 10000 | ppb | 45.335 | 0.2 | 27396 |
| Cd 226.502 | 1000.00 | ppb | 106.608 | 0.2 | 42991.8 |
| Co 228.615 | 1000.00 | ppb | 20.905 | 0.2 | 11563.0 |
| Cr 267.716 | 10000.0 | ppb | 2292.097 | 0.4 | 545564 |
| Cu 324.754 | 10000.0 | ppb | 5299.539 | 0.7 | 740749 |
| Fe 271.441 | 10000.0 | ppb | 19.895 | 0.1 | 15862.5 |
| K 766.491 | 20000.0 | ppb | 1184.984 | 0.1 | 897293 |
| Mg 279.078 | 10000.0 | ppb | 27.675 | 0.1 | 27217.6 |
| Mn 257.610 | 10000.0 | ppb | 4716.037 | 0.3 | 1862331 |
| Mo 202.032 | 1000.00 | ppb | 18.787 | 0.3 | 6855.88 |
| Na 330.237 | 15000.0 | ppb | 9.183 | 1.3 | 733.828 |
| Ni 231.604 | 5000.00 | ppb | 42.201 | 0.3 | 15616.0 |

| Label | Sol'n Conc. | Units | SD(Int) | %RSD(Int) | Int. (c/s) |
|---|---|---|---|---|---|
| Pb 220.353 | 1000.00 | ppb | 7.603 | 0.5 | 1602.00 |
| Sb 206.834 | 2000.00 | ppb | 9.833 | 0.3 | 2868.83 |
| Se 196.026 | 10000.0 | ppb | 19.023 | 0.4 | 4665.59 |
| Sn 189.925 | 10000.0 | ppb | 31.855 | 0.4 | 7602.17 |
| Sr 216.596 | 5000.00 | ppb | 93.274 | 0.1 | 62271.6 |
| Ti 334.941 | 1000.00 | ppb | 287.231 | 0.1 | 295433 |
| Tl 190.794 | 10000.0 | ppb | 37.014 | 0.3 | 10984.7 |
| V 292.401 | 10000.0 | ppb | 309.062 | 0.1 | 254177 |
| Zn 206.200 | 5000.00 | ppb | 18.235 | 0.3 | 5486.15 |

**Ag 328.068 Calibration (ppb)** **10/20/2014, 3:05:00 PM** **Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -19.0854 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 84538.3 | 1000.00 | 1000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 84.6 x + -19.1

**Al 308.215 Calibration (ppb)** **10/20/2014, 3:05:00 PM** **Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 491.534 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 68559.2 | 10000.0 | 10000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 6.8 x + 491.5

**As 188.980 Calibration (ppb)** **10/20/2014, 3:05:00 PM** **Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -6.7699 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 667.749 | 1000.00 | 1000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 0.7 x + -6.8

**B 249.678 Calibration (ppb)** **10/20/2014, 3:05:00 PM** **Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 38.5928 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 16817.1 | 1000.00 | 1000.00 | 0.0001 | 0.0 |

Curve Type: Linear Equation: y = 16.8 x + 38.6

**Ba 389.178 Calibration (ppb)** **10/20/2014, 3:05:00 PM** **Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -67.7712 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 220811 | 10000.0 | 10000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 22.1 x + -67.8

**Be 313.042 Calibration (ppb) 10/20/2014, 3:05:00 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -278.645 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 1810981 | 1000.00 | 1000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 1811.3 x + -278.6

**Ca 370.602 Calibration (ppb) 10/20/2014, 3:05:00 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 20.78 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 27396 | 10000 | 10000 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 2.7 x + 20.8

**Cd 226.502 Calibration (ppb) 10/20/2014, 3:05:00 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 16.6449 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 42991.8 | 1000.00 | 1000.00 | 0.0001 | 0.0 |

Curve Type: Linear Equation: y = 43.0 x + 16.6

**Co 228.615 Calibration (ppb) 10/20/2014, 3:05:00 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 4.4633 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 11563.0 | 1000.00 | 1000.000 | -0.0001 | 0.0 |

Curve Type: Linear Equation: y = 11.6 x + 4.5

**Cr 267.716 Calibration (ppb) 10/20/2014, 3:05:00 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 34.5579 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 545564 | 10000.0 | 10000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 54.6 x + 34.6

**Cu 324.754 Calibration (ppb) 10/20/2014, 3:05:00 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 244.549 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 740749 | 10000.0 | 10000.00 | -0.0010 | 0.0 |

Curve Type: Linear Equation: y = 74.1 x + 244.5

**Fe 271.441 Calibration (ppb) 10/20/2014, 3:05:00 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 8.9386 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 15862.5 | 10000.0 | 10000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 1.6 x + 8.9

**K 766.491 Calibration (ppb) 10/20/2014, 3:05:00 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 197.906 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 897293 | 20000.0 | 20000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 44.9 x + 197.9

**Mg 279.078 Calibration (ppb) 10/20/2014, 3:05:00 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 22.2475 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 27217.6 | 10000.0 | 10000.00 | -0.0010 | 0.0 |

Curve Type: Linear Equation: y = 2.7 x + 22.2

**Mn 257.610 Calibration (ppb) 10/20/2014, 3:05:00 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 31.8487 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 1862331 | 10000.0 | 10000.0 | 0.0010 | 0.0 |

Curve Type: Linear Equation: y = 186.2 x + 31.8

**Mo 202.032 Calibration (ppb) 10/20/2014, 3:05:00 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 5.5367 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 6855.88 | 1000.00 | 1000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 6.9 x + 5.5

**Na 330.237 Calibration (ppb) 10/20/2014, 3:05:00 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 25.4081 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 733.828 | 15000.0 | 15000.0 | 0.0029 | 0.0 |

Curve Type: Linear Equation: y = 0.0 x + 25.4

**Ni 231.604 Calibration (ppb) 10/20/2014, 3:05:00 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -4.8569 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 15616.0 | 5000.00 | 5000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 3.1 x + -4.9

**Pb 220.353 Calibration (ppb) 10/20/2014, 3:05:00 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 11.7689 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 1602.00 | 1000.00 | 1000.000 | -0.0002 | 0.0 |

Curve Type: Linear Equation: y = 1.6 x + 11.8

**Sb 206.834 Calibration (ppb) 10/20/2014, 3:05:00 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -2.4868 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 2868.83 | 2000.00 | 2000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 1.4 x + -2.5

**Se 196.026 Calibration (ppb) 10/20/2014, 3:05:00 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -0.2159 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 4665.59 | 10000.0 | 10000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 0.5 x + -0.2

**Sn 189.925 Calibration (ppb) 10/20/2014, 3:05:00 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -4.6574 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 7602.17 | 10000.0 | 10000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 0.8 x + -4.7

**Sr 216.596 Calibration (ppb) 10/20/2014, 3:05:00 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 5.5694 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 62271.6 | 5000.00 | 5000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 12.5 x + 5.6

**Ti 334.941 Calibration (ppb) 10/20/2014, 3:05:00 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -46.3506 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 295433 | 1000.00 | 1000.00 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 295.5 x + -46.4

**Tl 190.794 Calibration (ppb) 10/20/2014, 3:05:00 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -8.3023 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 10984.7 | 10000.0 | 10000.0 | 0.0000 | 0.0 |

Curve Type: Linear Equation: y = 1.1 x + -8.3

**V 292.401 Calibration (ppb) 10/20/2014, 3:05:00 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | -13.4225 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 254177 | 10000.0 | 10000.00 | -0.0010 | 0.0 |

Curve Type: Linear Equation: y = 25.4 x + -13.4

**Zn 206.200 Calibration (ppb) 10/20/2014, 3:05:00 PM Correlation Coefficient: 1.000000**

| Label | Flags | Int. (c/s) | Std Conc. | Calc Conc. | Error | %Error |
|---|---|---|---|---|---|---|
| Blank | | 1.0136 | 0.0000 | 0.0000 | - | - |
| HIGH STD | | 5486.15 | 5000.00 | 5000.00 | 0.0005 | 0.0 |

Curve Type: Linear Equation: y = 1.1 x + 1.0

**Lab Control Sample (LCS) 10/20/2014, 3:09:15 PM Rack S, Tube 2**

**Weight: 1 Volume: 1 Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 999.587 | 1001.94 | 1016.93 |
| Al 308.215 | 9991.99 | 9991.18 | 10006.1 |
| As 188.980 | 1004.07 | 990.124 | 1005.79 |
| B 249.678 | 1011.44 | 1013.81 | 1017.47 |
| Ba 389.178 | 9984.84 | 9971.63 | 9997.85 |
| Be 313.042 | 1000.90 | 996.875 | 1004.50 |
| Ca 370.602 | 10225 | 10214 | 10237 |
| Cd 226.502 | 996.922 | 994.896 | 997.850 |
| Co 228.615 | 1008.72 | 1005.80 | 1005.71 |
| Cr 267.716 | 10081.1 | 10059.3 | 10091.4 |
| Cu 324.754 | 9969.45 | 9976.07 | 10033.4 |
| Fe 271.441 | 9990.89 | 9980.28 | 10018.4 |
| K 766.491 | 19971.0 | 19956.3 | 19990.1 |
| Mg 279.078 | 10024.5 | 10013.0 | 10045.5 |
| Mn 257.610 | 10223.2 | 10137.6 | 10226.2 |
| Mo 202.032 | 1005.99 | 1003.84 | 1006.64 |
| Na 330.237 | 15007.2 | 15304.5 | 15140.6 |
| Ni 231.604 | 5009.79 | 5001.26 | 5008.11 |
| Pb 220.353 | 1001.67 | 1003.43 | 1003.55 |
| Sb 206.834 | 2007.48 | 2001.69 | 1997.01 |
| Se 196.026 | 10034.4 | 10029.3 | 10043.3 |
| Sn 189.925 | 10024.8 | 9983.82 | 10030.2 |
| Sr 216.596 | 5013.13 | 5000.98 | 5027.66 |
| Ti 334.941 | 999.925 | 997.589 | 1000.64 |
| Tl 190.794 | 10062.8 | 10042.4 | 10076.3 |
| V 292.401 | 10085.3 | 10067.3 | 10099.2 |
| Zn 206.200 | 5009.25 | 5016.00 | 5023.07 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 1006.16 | ppb | 9.4094 | 0.9 | 84964.9 | 100.61553 |
| Al 308.215 | 9996.43 | ppb | 8.3969 | 0.1 | 69610.1 | 99.96431 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| As 188.980 | 999.997 | ppb | 8.5933 | 0.9 | 667.496 | 99.99968 |
| B 249.678 | 1014.24 | ppb | 3.0390 | 0.3 | 17062.5 | 20.28486* |
| Ba 389.178 | 9984.78 | ppb | 13.1114 | 0.1 | 220520 | 99.84776 |
| Be 313.042 | 1000.76 | ppb | 3.8161 | 0.4 | 1812745 | 100.07594 |
| Ca 370.602 | 10225 | ppb | 11.60 | 0.1 | 28643 | 102.25107 |
| Cd 226.502 | 996.556 | ppb | 1.5105 | 0.2 | 42882.1 | 99.65560 |
| Co 228.615 | 1006.74 | ppb | 1.7113 | 0.2 | 11651.3 | 100.67442 |
| Cr 267.716 | 10077.3 | ppb | 16.3760 | 0.2 | 549717 | 100.77273 |
| Cu 324.754 | 9992.96 | ppb | 35.1565 | 0.4 | 740125 | 99.92965 |
| Fe 271.441 | 9996.53 | ppb | 19.6981 | 0.2 | 16081.6 | 99.96533 |
| K 766.491 | 19972.5 | ppb | 16.9348 | 0.1 | 896059 | 99.86246 |
| Mg 279.078 | 10027.7 | ppb | 16.4920 | 0.2 | 27081.3 | 100.27686 |
| Mn 257.610 | 10195.6 | ppb | 50.3236 | 0.5 | 1898857 | 101.95644 |
| Mo 202.032 | 1005.49 | ppb | 1.4647 | 0.1 | 6882.06 | 100.54911 |
| Na 330.237 | 15150.8 | ppb | 148.875 | 1.0 | 614.761 | 101.00524 |
| Ni 231.604 | 5006.39 | ppb | 4.5180 | 0.1 | 15634.3 | 100.12775 |
| Pb 220.353 | 1002.89 | ppb | 1.0532 | 0.1 | 1615.26 | 100.28854 |
| Sb 206.834 | 2002.06 | ppb | 5.2408 | 0.3 | 2973.35 | 100.10304 |
| Se 196.026 | 10035.7 | ppb | 7.1129 | 0.1 | 4684.72 | 100.35677 |
| Sn 189.925 | 10012.9 | ppb | 25.3687 | 0.3 | 7612.03 | 100.12946 |
| Sr 216.596 | 5013.92 | ppb | 13.3562 | 0.3 | 62307.2 | 100.27850 |
| Ti 334.941 | 999.386 | ppb | 1.5973 | 0.2 | 295270 | 99.93861 |
| Tl 190.794 | 10060.5 | ppb | 17.0550 | 0.2 | 11071.2 | 100.60522 |
| V 292.401 | 10083.9 | ppb | 16.0123 | 0.2 | 255756 | 100.83913 |
| Zn 206.200 | 5016.10 | ppb | 6.9076 | 0.1 | 5471.96 | 100.32210 |

**Initial Calib Verif (ICV)** **10/20/2014, 3:13:30 PM** **Rack S, Tube 3**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 1007.66 | 1003.62 | 1010.89 |
| Al 308.215 | 977.939 | 985.887 | 983.307 |
| As 188.980 | 995.120 | 1000.68 | 999.858 |
| B 249.678 | 1001.33 | 1007.43 | 1006.82 |
| Ba 389.178 | 1016.27 | 1020.79 | 1020.07 |
| Be 313.042 | 1006.49 | 1012.58 | 1010.71 |
| Ca 370.602 | 981.1 | 982.5 | 975.1 |
| Cd 226.502 | 993.305 | 996.920 | 996.410 |
| Co 228.615 | 1028.79 | 1036.01 | 1027.48 |
| Cr 267.716 | 1008.56 | 1014.10 | 1010.20 |
| Cu 324.754 | 1016.87 | 1017.01 | 1020.81 |
| Fe 271.441 | 983.507 | 995.165 | 987.650 |
| K 766.491 | 10063.3 | 10119.3 | 10106.6 |
| Mg 279.078 | 982.687 | 985.562 | 981.818 |
| Mn 257.610 | 1048.03 | 1049.63 | 1044.58 |
| Mo 202.032 | 1020.42x | 1024.88x | 1021.10x |
| Na 330.237 | 9526.15 | 9649.63 | 9625.17 |
| Ni 231.604 | 1004.56 | 1012.56 | 1009.68 |
| Pb 220.353 | 1000.73 | 1003.88 | 1010.24 |
| Sb 206.834 | 1016.26 | 1026.18 | 1016.81 |
| Se 196.026 | 984.093 | 984.295 | 969.143 |
| Sn 189.925 | 4957.51 | 4971.29 | 4916.60 |
| Sr 216.596 | 5029.06 | 5049.15 | 5044.11 |
| Ti 334.941 | 972.565 | 978.355 | 975.957 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 987.982 | 993.972 | 982.858 |
| V 292.401 | 1037.40 | 1041.45 | 1036.22 |
| Zn 206.200 | 1008.92 | 1009.68 | 1000.34 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 1007.39b | ppb | 3.6413 | 0.4 | 85001.6 | 100.73923 |
| Al 308.215 | 982.378b | ppb | 4.0545 | 0.4 | 7336.50 | 98.23780 |
| As 188.980 | 998.554b | ppb | 3.0020 | 0.3 | 666.481 | 99.85538 |
| B 249.678 | 1005.19b | ppb | 3.3585 | 0.3 | 16916.4 | 100.51921 |
| Ba 389.178 | 1019.04b | ppb | 2.4330 | 0.2 | 22449.7 | 101.90429 |
| Be 313.042 | 1009.93b | ppb | 3.1217 | 0.3 | 1828865 | 100.99276 |
| Ca 370.602 | 979.6b | ppb | 3.944 | 0.4 | 3135 | 97.95675 |
| Cd 226.502 | 995.545b | ppb | 1.9569 | 0.2 | 42804.4 | 99.55450 |
| Co 228.615 | 1030.76b | ppb | 4.5926 | 0.4 | 11910.0 | 103.07617 |
| Cr 267.716 | 1010.95b | ppb | 2.8456 | 0.3 | 55171.0 | 101.09547 |
| Cu 324.754 | 1018.23b | ppb | 2.2343 | 0.2 | 75671.6 | 101.82302 |
| Fe 271.441 | 988.774b | ppb | 5.9097 | 0.6 | 1713.54 | 98.87739 |
| K 766.491 | 10096.4b | ppb | 29.3381 | 0.3 | 453070 | 100.96417 |
| Mg 279.078 | 983.356b | ppb | 1.9595 | 0.2 | 2674.69 | 98.33556 |
| Mn 257.610 | 1047.41b | ppb | 2.5822 | 0.2 | 195100 | 104.74103 |
| Mo 202.032 | 1022.13xb | ppb | 2.4036 | 0.2 | 7006.32 | 102.21330 |
| Na 330.237 | 9600.32b | ppb | 65.3869 | 0.7 | 452.109 | 96.00315 |
| Ni 231.604 | 1008.93b | ppb | 4.0511 | 0.4 | 3144.75 | 100.89330 |
| Pb 220.353 | 1004.95b | ppb | 4.8415 | 0.5 | 1608.73 | 100.49483 |
| Sb 206.834 | 1019.75b | ppb | 5.5787 | 0.5 | 1457.67 | 101.97496 |
| Se 196.026 | 979.177b | ppb | 8.6905 | 0.9 | 456.906 | 97.91771 |
| Sn 189.925 | 4948.46b | ppb | 28.4460 | 0.6 | 3759.56 | 98.96927 |
| Sr 216.596 | 5040.77b | ppb | 10.4540 | 0.2 | 62739.8 | 100.81549 |
| Ti 334.941 | 975.625b | ppb | 2.9092 | 0.3 | 288232 | 97.56253 |
| Tl 190.794 | 988.270b | ppb | 5.5625 | 0.6 | 1079.87 | 98.82704 |
| V 292.401 | 1038.36b | ppb | 2.7394 | 0.3 | 26194.3 | 103.83571 |
| Zn 206.200 | 1006.32b | ppb | 5.1854 | 0.5 | 1101.76 | 100.63159 |

**Initial Calib Blank (ICB)** **10/20/2014, 3:17:45 PM** **Rack S, Tube 1**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1813 | 0.1539 | 0.2105 |
| Al 308.215 | 2.9624 | 3.4637 | 3.8067 |
| As 188.980 | 0.4129 | 2.1036 | -0.8208u |
| B 249.678 | 20.7697 | 18.3502 | 16.5305 |
| Ba 389.178 | 0.3548 | 0.6786 | 0.6907 |
| Be 313.042 | 0.0926 | 0.1000 | 0.1114 |
| Ca 370.602 | 0.1327 | -4.085u | 4.442 |
| Cd 226.502 | -0.0459u | -0.0890u | 0.1167 |
| Co 228.615 | 0.3521 | 0.5689 | 0.1616 |
| Cr 267.716 | 0.1790 | 0.3248 | 0.2731 |
| Cu 324.754 | 0.2785 | 0.3578 | 0.4040 |
| Fe 271.441 | 5.8473 | 4.6274 | 2.3093 |
| K 766.491 | 2.1545 | 2.0932 | 2.4592 |
| Mg 279.078 | 1.4420 | 2.0806 | 4.0655 |
| Mn 257.610 | 0.3648 | 0.4304 | 0.4820 |
| Mo 202.032 | 0.5093 | 1.2777 | 0.3987 |
| Na 330.237 | -72.8406u | 188.101 | 85.2000 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | -0.9117u | -0.0971u | 0.3521 |
| Pb 220.353 | -0.9210u | -3.4148u | -0.1440u |
| Sb 206.834 | 1.1290 | 0.2027 | -1.0655u |
| Se 196.026 | 5.2619 | -1.2513u | 1.6940 |
| Sn 189.925 | -5.5419u | 0.0400 | -1.0202u |
| Sr 216.596 | 0.0035 | 0.5992 | 0.3329 |
| Ti 334.941 | 0.1736 | 0.2555 | 0.2622 |
| Tl 190.794 | 3.0523 | -0.0964u | 1.8875 |
| V 292.401 | 0.1870 | 0.1432 | 0.2660 |
| Zn 206.200 | 1.3242 | 0.3960 | 0.9230 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.1819 | ppb | 0.0283 | 15.6 | -3.7230 | 0.18188 |
| Al 308.215 | 3.4109 | ppb | 0.4246 | 12.4 | 514.851 | 3.41094 |
| As 188.980 | 0.5652 | ppb | 1.4681 | 259.7 | -6.3889 | 0.56522 |
| B 249.678 | 18.5501 | ppb | 2.1267 | 11.5 | 349.800 | 18.55012 |
| Ba 389.178 | 0.5747 | ppb | 0.1905 | 33.2 | -55.0675 | 0.57469 |
| Be 313.042 | 0.1014 | ppb | 0.0095 | 9.3 | -95.1756 | 0.10136 |
| Ca 370.602 | 0.1632 | ppb | 4.263 | 2612.9 | 21.27 | 0.16316 |
| Cd 226.502 | -0.0061 | ppb | 0.1085 | 1781.3 | 16.4069 | -0.00609 |
| Co 228.615 | 0.3609 | ppb | 0.2038 | 56.5 | 8.6182 | 0.36088 |
| Cr 267.716 | 0.2590 | ppb | 0.0739 | 28.6 | 48.6876 | 0.25897 |
| Cu 324.754 | 0.3467 | ppb | 0.0635 | 18.3 | 270.257 | 0.34675 |
| Fe 271.441 | 4.2613 | ppb | 1.7972 | 42.2 | 15.7189 | 4.26134 |
| K 766.491 | 2.2356 | ppb | 0.1960 | 8.8 | 298.184 | 2.23563 |
| Mg 279.078 | 2.5294 | ppb | 1.3681 | 54.1 | 29.1161 | 2.52936 |
| Mn 257.610 | 0.4257 | ppb | 0.0587 | 13.8 | 111.155 | 0.42573 |
| Mo 202.032 | 0.7286 | ppb | 0.4788 | 65.7 | 10.5271 | 0.72859 |
| Na 330.237 | 66.8201 | ppb | 131.438 | 196.7 | 28.5480 | 66.82012 |
| Ni 231.604 | -0.2189 | ppb | 0.6406 | 292.6 | -5.5407 | -0.21892 |
| Pb 220.353 | -1.4932 | ppb | 1.7088 | 114.4 | 9.3937 | -1.49325 |
| Sb 206.834 | 0.0887 | ppb | 1.1017 | 1241.5 | -2.3714 | 0.08874 |
| Se 196.026 | 1.9015 | ppb | 3.2616 | 171.5 | 0.6715 | 1.90153 |
| Sn 189.925 | -2.1740 | ppb | 2.9644 | 136.4 | -6.3111 | -2.17402 |
| Sr 216.596 | 0.3118 | ppb | 0.2984 | 95.7 | 9.4477 | 0.31185 |
| Ti 334.941 | 0.2304 | ppb | 0.0493 | 21.4 | 21.7242 | 0.23040 |
| Tl 190.794 | 1.6144 | ppb | 1.5920 | 98.6 | -6.5300 | 1.61444 |
| V 292.401 | 0.1988 | ppb | 0.0623 | 31.3 | -8.5089 | 0.19875 |
| Zn 206.200 | 0.8811 | ppb | 0.4655 | 52.8 | 1.9790 | 0.88105 |

**CRI (CRI)** **10/20/2014, 3:22:01 PM** **Rack S, Tube 4**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 11.1389 | 11.0556 | 11.4809 |
| Al 308.215 | 213.795 | 212.629 | 214.459 |
| As 188.980 | 22.8359 | 23.3327 | 21.0273 |
| B 249.678 | 111.350 | 112.710 | 113.429 |
| Ba 389.178 | 10.9655 | 10.4961 | 11.2626 |
| Be 313.042 | 4.3844 | 4.3994 | 4.3880 |
| Ca 370.602 | 542.2 | 545.3 | 544.0 |
| Cd 226.502 | 5.2783 | 5.2245 | 5.4033 |
| Co 228.615 | 10.8451 | 10.8076 | 10.5333 |
| Cr 267.716 | 10.9120 | 10.7598 | 10.9101 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 22.1919 | 22.7287 | 22.0911 |
| Fe 271.441 | 59.1968 | 54.0118 | 57.7216 |
| K 766.491 | 1111.60 | 1116.73 | 1118.82 |
| Mg 279.078 | 527.922 | 528.267 | 530.815 |
| Mn 257.610 | 11.7513 | 11.7060 | 11.6239 |
| Mo 202.032 | 10.8721 | 10.4559 | 11.1832 |
| Na 330.237 | 985.997 | 1230.49 | 1269.90 |
| Ni 231.604 | 42.5035 | 42.1074 | 43.0004 |
| Pb 220.353 | 8.7329 | 10.6397 | 8.9340 |
| Sb 206.834 | 22.1642 | 21.2478 | 22.6248 |
| Se 196.026 | 20.4780 | 23.7083 | 20.7710 |
| Sn 189.925 | 53.0585 | 53.2557 | 56.3059 |
| Sr 216.596 | 10.5869 | 10.3978 | 10.9085 |
| Ti 334.941 | 10.7548 | 10.7685 | 10.7526 |
| Tl 190.794 | 27.0619 | 31.5465 | 26.1447 |
| V 292.401 | 11.0309 | 10.8848 | 10.8046 |
| Zn 206.200 | 22.5796 | 21.6319 | 22.0599 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 11.2251 | ppb | 0.2254 | 2.0 | 929.786 | 112.25109 |
| Al 308.215 | 213.628 | ppb | 0.9266 | 0.4 | 1947.40 | 106.81384 |
| As 188.980 | 22.3987 | ppb | 1.2133 | 5.4 | 8.3372 | 111.99337 |
| B 249.678 | 112.496 | ppb | 1.0558 | 0.9 | 1926.27 | 112.49586 |
| Ba 389.178 | 10.9080 | ppb | 0.3865 | 3.5 | 173.999 | 109.08050 |
| Be 313.042 | 4.3906 | ppb | 0.0078 | 0.2 | 7672.85 | 109.76486 |
| Ca 370.602 | 543.8 | ppb | 1.554 | 0.3 | 1514 | 108.76465 |
| Cd 226.502 | 5.3020 | ppb | 0.0917 | 1.7 | 244.721 | 106.04066 |
| Co 228.615 | 10.7287 | ppb | 0.1702 | 1.6 | 128.392 | 107.28650 |
| Cr 267.716 | 10.8607 | ppb | 0.0873 | 0.8 | 626.994 | 108.60658 |
| Cu 324.754 | 22.3372 | ppb | 0.3428 | 1.5 | 1898.93 | 111.68610 |
| Fe 271.441 | 56.9767 | ppb | 2.6716 | 4.7 | 100.648 | 113.95341 |
| K 766.491 | 1115.72 | ppb | 3.7151 | 0.3 | 50243.0 | 111.57151 |
| Mg 279.078 | 529.001 | ppb | 1.5803 | 0.3 | 1460.57 | 105.80028 |
| Mn 257.610 | 11.6937 | ppb | 0.0645 | 0.6 | 2213.19 | 116.93741 |
| Mo 202.032 | 10.8371 | ppb | 0.3650 | 3.4 | 79.7597 | 108.37055 |
| Na 330.237 | 1162.13 | ppb | 153.804 | 13.2 | 79.7250 | 116.21318 |
| Ni 231.604 | 42.5371 | ppb | 0.4474 | 1.1 | 128.016 | 106.34281 |
| Pb 220.353 | 9.4355 | ppb | 1.0477 | 11.1 | 26.7622 | 94.35536 |
| Sb 206.834 | 22.0123 | ppb | 0.7010 | 3.2 | 29.0707 | 110.06135 |
| Se 196.026 | 21.6524 | ppb | 1.7865 | 8.3 | 9.8902 | 108.26203 |
| Sn 189.925 | 54.2067 | ppb | 1.8206 | 3.4 | 36.5771 | 108.41338 |
| Sr 216.596 | 10.6311 | ppb | 0.2582 | 2.4 | 136.895 | 106.31079 |
| Ti 334.941 | 10.7586 | ppb | 0.0086 | 0.1 | 3133.48 | 107.58617 |
| Tl 190.794 | 28.2510 | ppb | 2.8906 | 10.2 | 22.7650 | 113.00407 |
| V 292.401 | 10.9068 | ppb | 0.1147 | 1.1 | 261.864 | 109.06760 |
| Zn 206.200 | 22.0905 | ppb | 0.4746 | 2.1 | 25.2109 | 110.45243 |

**Interf Check A (ICSA)** **10/20/2014, 3:30:11 PM** **Rack S, Tube 5**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1285u | -0.0130u | 0.6788 |
| Al 308.215 | 527812 | 527407 | 527176 |
| As 188.980 | 2.9780 | -3.5199 | 1.7278 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 2.4293u | 2.1137u | 2.2627u |
| Ba 389.178 | -0.3534 | -0.6912 | -1.3090 |
| Be 313.042 | -0.1280u | -0.1351u | -0.1336u |
| Ca 370.602 | 513654 | 512312 | 512459 |
| Cd 226.502 | -0.1471 | 0.1059 | 0.0552 |
| Co 228.615 | -0.7084 | -0.3752 | -1.1487u |
| Cr 267.716 | 0.4597 | 0.1508 | 0.3832 |
| Cu 324.754 | 1.7329 | 1.4199 | 1.7623 |
| Fe 271.441 | 186428 | 186679 | 186716 |
| K 766.491 | 4.5098 | 4.7628 | 4.5404 |
| Mg 279.078 | 504397 | 504916 | 506027 |
| Mn 257.610 | 3.8232 | 3.8042 | 3.9584 |
| Mo 202.032 | 2.1689 | 1.4739 | 1.5044 |
| Na 330.237 | -394.794u | -235.270u | -37.6622u |
| Ni 231.604 | -0.6881 | -0.4023 | 1.2492 |
| Pb 220.353 | 4.4452 | 8.5130 | 5.5472 |
| Sb 206.834 | 5.4615 | 2.4641 | -3.5663 |
| Se 196.026 | 4.4843 | 2.3531 | -1.8298 |
| Sn 189.925 | 1.3177 | -11.5945u | 2.5395 |
| Sr 216.596 | 6.7154 | 6.6849 | 6.9925 |
| Ti 334.941 | 0.9960 | 1.0271 | 1.0029 |
| Tl 190.794 | -5.0753u | -8.3290u | -7.1966u |
| V 292.401 | -5.0007u | -4.2689u | -4.6102u |
| Zn 206.200 | 5.5265u | 10.9664 | 10.8998 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.1791 | ppb | 0.4366 | 243.8 | -43.4914 | 0.17911 |
| Al 308.215 | 527465 | ppb | 321.684 | 0.1 | 3591143 | - |
| As 188.980 | 0.3953 | ppb | 3.4478 | 872.1 | -2.2122 | 0.39533 |
| B 249.678 | 2.2686 | ppb | 0.1579 | 7.0 | -357.949 | 2.26856 |
| Ba 389.178 | -0.7846 | ppb | 0.4846 | 61.8 | 709.703 | -0.78457 |
| Be 313.042 | -0.1322 | ppb | 0.0037 | 2.8 | -327.642 | -0.13222 |
| Ca 370.602 | 512809 | ppb | 736.0 | 0.1 | 1401665 | - |
| Cd 226.502 | 0.0047 | ppb | 0.1339 | 2870.5 | 726.885 | 0.00466 |
| Co 228.615 | -0.7441 | ppb | 0.3880 | 52.1 | 8.6858 | -0.74410 |
| Cr 267.716 | 0.3312 | ppb | 0.1609 | 48.6 | 148.437 | 0.33123 |
| Cu 324.754 | 1.6383 | ppb | 0.1897 | 11.6 | 447.444 | 1.63835 |
| Fe 271.441 | 186607 | ppb | 156.844 | 0.1 | 295847 | - |
| K 766.491 | 4.6043 | ppb | 0.1381 | 3.0 | 404.432 | 4.60433 |
| Mg 279.078 | 505113 | ppb | 832.871 | 0.2 | 1373497 | - |
| Mn 257.610 | 3.8619 | ppb | 0.0841 | 2.2 | 4535.21 | 3.86193 |
| Mo 202.032 | 1.7157 | ppb | 0.3927 | 22.9 | 8.4740 | 1.71573 |
| Na 330.237 | -222.575 | ppb | 178.904 | 80.4 | -28.7128 | -222.57535 |
| Ni 231.604 | 0.0529 | ppb | 1.0458 | 1975.5 | 11.6070 | 0.05294 |
| Pb 220.353 | 6.1685 | ppb | 2.1039 | 34.1 | 26.8116 | 6.16847 |
| Sb 206.834 | 1.4531 | ppb | 4.5980 | 316.4 | 5.6828 | 1.45312 |
| Se 196.026 | 1.6692 | ppb | 3.2121 | 192.4 | 3.1402 | 1.66919 |
| Sn 189.925 | -2.5791 | ppb | 7.8314 | 303.6 | -6.6197 | -2.57910 |
| Sr 216.596 | 6.7976 | ppb | 0.1694 | 2.5 | 508.960 | 6.79762 |
| Ti 334.941 | 1.0087 | ppb | 0.0164 | 1.6 | 1198.70 | 1.00866 |
| Tl 190.794 | -6.8670 | ppb | 1.6517 | 24.1 | -41.0770 | -6.86698 |
| V 292.401 | -4.6266 | ppb | 0.3662 | 7.9 | -63.4734 | -4.62660 |
| Zn 206.200 | 9.1309 | ppb | 3.1217 | 34.2 | 2.3567 | 9.13087 |

E10202014.wvq. All Data Report 10/21/2014, 9:27:38 AM

**Interf Check AB (ICSAB)** **10/20/2014, 3:34:28 PM** **Rack S, Tube 6**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 224.518 | 222.844 | 223.815 |
| Al 308.215 | 539517 | 539076 | 539327 |
| As 188.980 | 104.486 | 82.2460 | 102.821 |
| B 249.678 | 3.3912u | 3.4341u | 3.0400u |
| Ba 389.178 | 508.061 | 508.294 | 506.824 |
| Be 313.042 | 483.320 | 484.207 | 482.359 |
| Ca 370.602 | 498814 | 496507 | 496986 |
| Cd 226.502 | 933.010 | 933.688 | 934.824 |
| Co 228.615 | 475.914 | 475.994 | 477.155 |
| Cr 267.716 | 489.097 | 488.915 | 488.587 |
| Cu 324.754 | 574.511 | 564.393 | 567.250 |
| Fe 271.441 | 189802 | 189665 | 189634 |
| K 766.491 | 2.7422 | 2.1643 | 2.5221 |
| Mg 279.078 | 512565 | 513478 | 513314 |
| Mn 257.610 | 512.412 | 510.259 | 511.579 |
| Mo 202.032 | 977.372 | 980.072 | 979.731 |
| Na 330.237 | -379.206u | -34.7189u | -54.9324u |
| Ni 231.604 | 923.813 | 926.695 | 918.428 |
| Pb 220.353 | 51.5013 | 48.5437 | 46.3860 |
| Sb 206.834 | 644.939 | 639.575 | 639.432 |
| Se 196.026 | 57.8848 | 71.6788 | 50.1322 |
| Sn 189.925 | 975.908 | 985.217 | 962.797 |
| Sr 216.596 | 6.5183 | 7.2384 | 6.2649 |
| Ti 334.941 | 0.3251 | 0.3428 | 0.3398 |
| Tl 190.794 | 80.0483 | 80.1710 | 84.1136 |
| V 292.401 | 483.111 | 481.814 | 481.601 |
| Zn 206.200 | 923.566 | 921.499 | 922.424 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 223.726 | ppb | 0.8405 | 0.4 | 18862.4 | 111.86277 |
| Al 308.215 | 539307 | ppb | 221.329 | 0.0 | 3671855 | 107.86133 |
| As 188.980 | 96.5174 | ppb | 12.3874 | 12.8 | 62.5162 | 96.51743 |
| B 249.678 | 3.2885 | ppb | 0.2162 | 6.6 | -338.420 | - |
| Ba 389.178 | 507.726 | ppb | 0.7900 | 0.2 | 11965.0 | 101.54519 |
| Be 313.042 | 483.295 | ppb | 0.9245 | 0.2 | 875170 | 96.65901 |
| Ca 370.602 | 497436 | ppb | 1218 | 0.2 | 1359565 | 99.48716 |
| Cd 226.502 | 933.841 | ppb | 0.9164 | 0.1 | 40869.8 | 93.38407 |
| Co 228.615 | 476.354 | ppb | 0.6946 | 0.1 | 5496.71 | 95.27090 |
| Cr 267.716 | 488.866 | ppb | 0.2583 | 0.1 | 26788.2 | 97.77330 |
| Cu 324.754 | 568.718 | ppb | 5.2162 | 0.9 | 42473.9 | 113.74355 |
| Fe 271.441 | 189700 | ppb | 89.5215 | 0.0 | 300814 | 94.84999 |
| K 766.491 | 2.4762 | ppb | 0.2917 | 11.8 | 308.975 | - |
| Mg 279.078 | 513119 | ppb | 486.674 | 0.1 | 1395252 | 102.62381 |
| Mn 257.610 | 511.417 | ppb | 1.0856 | 0.2 | 99141.2 | 102.28337 |
| Mo 202.032 | 979.058 | ppb | 1.4703 | 0.2 | 6702.94 | 97.90582 |
| Na 330.237 | -156.286 | ppb | 193.319 | 123.7 | -48.6640 | - |
| Ni 231.604 | 922.979 | ppb | 4.1958 | 0.5 | 2894.07 | 92.29788 |
| Pb 220.353 | 48.8103 | ppb | 2.5680 | 5.3 | 93.5629 | 97.62067 |
| Sb 206.834 | 641.315 | ppb | 3.1386 | 0.5 | 913.485 | 106.88589 |
| Se 196.026 | 59.8986 | ppb | 10.9135 | 18.2 | 30.4675 | 119.79723 |
| Sn 189.925 | 974.641 | ppb | 11.2634 | 1.2 | 736.735 | 97.46405 |
| Sr 216.596 | 6.6739 | ppb | 0.5051 | 7.6 | 476.304 | - |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ti 334.941 | 0.3359 | ppb | 0.0094 | 2.8 | 1022.03 | - |
| Tl 190.794 | 81.4443 | ppb | 2.3125 | 2.8 | 54.7612 | 81.44431 |
| V 292.401 | 482.175 | ppb | 0.8173 | 0.2 | 12138.7 | 96.43504 |
| Zn 206.200 | 922.497 | ppb | 1.0355 | 0.1 | 1002.68 | 92.24967 |

**LRA1 (Samp)** **10/20/2014, 3:38:46 PM** **Rack S, Tube 7**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0244 | 0.2508 | 0.2894 |
| Al 308.215 | 50.2216 | 46.3928 | 47.5216 |
| As 188.980 | 19668.5x | 19594.4x | 19689.9x |
| B 249.678 | 4944.31 | 4956.33 | 4959.41 |
| Ba 389.178 | 0.2322 | -0.1850u | 0.1274 |
| Be 313.042 | 0.1059 | 0.1032 | 0.1018 |
| Ca 370.602 | -119.0 | -140.2 | -139.5 |
| Cd 226.502 | -3.5243u | -3.3678u | -3.4966u |
| Co 228.615 | 9951.77 | 9936.99 | 9936.85 |
| Cr 267.716 | -1.3738 | -1.3154 | -1.2433 |
| Cu 324.754 | -4.4265u | -4.1258u | -4.3192u |
| Fe 271.441 | -46.3838 | -61.7595 | -58.4424 |
| K 766.491 | 2.5543 | 2.6646 | 3.1128 |
| Mg 279.078 | 7.9307u | 7.7425u | 10.4523u |
| Mn 257.610 | 27451.2x | 27558.4x | 27355.3x |
| Mo 202.032 | 0.2358 | 0.5895 | 0.8100 |
| Na 330.237 | 1016.84u | 1448.91 | 1374.30 |
| Ni 231.604 | 10093.9x | 10059.6x | 10040.2x |
| Pb 220.353 | 20427.3x | 20387.4x | 20323.6x |
| Sb 206.834 | 2.8596 | 4.0258 | 4.5175 |
| Se 196.026 | -1.9013 | -2.5766 | -4.2257 |
| Sn 189.925 | 1.4312 | -0.8467u | 2.5413 |
| Sr 216.596 | 1.4463u | 1.6820u | 1.7739u |
| Ti 334.941 | 30281.3x | 30097.7x | 30204.1x |
| Tl 190.794 | 12.2258 | 7.7028 | 1.2355 |
| V 292.401 | -12.9786 | -13.0728 | -13.2658 |
| Zn 206.200 | 4.5179 | 4.7481 | 2.7794 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.1882b | ppb | 0.1432 | 76.1 | 138.923 |
| Al 308.215 | 48.0453b | ppb | 1.9674 | 4.1 | 753.316 |
| As 188.980 | 19651.0xb | ppb | 50.1077 | 0.3 | 13248.2 |
| B 249.678 | 4953.35b | ppb | 7.9756 | 0.2 | 83146.6 |
| Ba 389.178 | 0.0582b | ppb | 0.2171 | 372.9 | -66.3530 |
| Be 313.042 | 0.1036b | ppb | 0.0021 | 2.0 | -106.506 |
| Ca 370.602 | -132.9b | ppb | 12.05 | 9.1 | 13082 |
| Cd 226.502 | -3.4629b | ppb | 0.0835 | 2.4 | -129.106 |
| Co 228.615 | 9941.87b | ppb | 8.5763 | 0.1 | 115561 |
| Cr 267.716 | -1.3108b | ppb | 0.0654 | 5.0 | 163.142 |
| Cu 324.754 | -4.2905b | ppb | 0.1524 | 3.6 | -73.2456 |
| Fe 271.441 | -55.5286b | ppb | 8.0914 | 14.6 | 1138.55 |
| K 766.491 | 2.7772b | ppb | 0.2958 | 10.7 | 322.478 |
| Mg 279.078 | 8.7085b | ppb | 1.5131 | 17.4 | -519.250 |
| Mn 257.610 | 27455.0xb | ppb | 101.633 | 0.4 | 5112970 |
| Mo 202.032 | 0.5451b | ppb | 0.2897 | 53.1 | 9.2232 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 1280.01b | ppb | 230.951 | 18.0 | 26.1662 |
| Ni 231.604 | 10064.5xb | ppb | 27.2061 | 0.3 | 31413.6 |
| Pb 220.353 | 20379.4xb | ppb | 52.3061 | 0.3 | 32406.8 |
| Sb 206.834 | 3.8010b | ppb | 0.8515 | 22.4 | 3.0015 |
| Se 196.026 | -2.9012b | ppb | 1.1957 | 41.2 | 4.8195 |
| Sn 189.925 | 1.0419b | ppb | 1.7272 | 165.8 | -3.8653 |
| Sr 216.596 | 1.6341b | ppb | 0.1690 | 10.3 | -257.780 |
| Ti 334.941 | 30194.4xb | ppb | 92.1744 | 0.3 | 8921784 |
| Tl 190.794 | 7.0547b | ppb | 5.5237 | 78.3 | 44.3721 |
| V 292.401 | -13.1057b | ppb | 0.1464 | 1.1 | 93.3143 |
| Zn 206.200 | 4.0151b | ppb | 1.0763 | 26.8 | 5.3799 |

**LRA2 (Samp)** **10/20/2014, 3:43:04 PM** **Rack S, Tube 8**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.8464u | 0.2545u | 0.5304u |
| Al 308.215 | 829589 | 829363 | 796713 |
| As 188.980 | 48.6399 | 25.6749 | 28.5991 |
| B 249.678 | 72.5296u | 62.2147u | 54.0915u |
| Ba 389.178 | -3.0210 | -0.9032 | 0.3305 |
| Be 313.042 | -0.2022u | -0.2033u | -0.2134u |
| Ca 370.602 | 756281 | 752515 | 750946 |
| Cd 226.502 | 8.5814 | 9.2938 | 9.7788 |
| Co 228.615 | -10.8296u | -11.1990u | -10.2040u |
| Cr 267.716 | -4.0516 | -3.5858 | -3.6615 |
| Cu 324.754 | 1.0227 | 1.0521 | 1.6887 |
| Fe 271.441 | 894108 | 891508 | 892669 |
| K 766.491 | 29.0569 | 28.5110 | 28.3872 |
| Mg 279.078 | 762899 | 761454 | 765246 |
| Mn 257.610 | 5.6952 | 5.3866 | 5.2227 |
| Mo 202.032 | 3.4734u | 2.8711u | 1.9000u |
| Na 330.237 | -88.6538u | 15.9326u | -267.611u |
| Ni 231.604 | -19.2486 | -17.8439 | -17.7190 |
| Pb 220.353 | 10.0694 | 10.5042 | 12.6181 |
| Sb 206.834 | -13.3083 | 6.5910 | -1.2029 |
| Se 196.026 | -12.7400 | -8.5585 | 13.9862 |
| Sn 189.925 | -4.5863u | -9.7494u | -5.0135u |
| Sr 216.596 | 8.6350 | 7.9053 | 8.2911 |
| Ti 334.941 | 3.9731 | 3.4427 | 3.1216 |
| Tl 190.794 | -38.8835u | -45.3904u | -37.9924u |
| V 292.401 | -27.9545u | -28.0333u | -27.9969u |
| Zn 206.200 | 11.2976u | 15.4090u | 15.4214u |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.5438 | ppb | 0.2962 | 54.5 | -137.713 |
| Al 308.215 | 818555 | ppb | 18916.0 | 2.3 | 5573738 |
| As 188.980 | 34.3046 | ppb | 12.5005 | 36.4 | 19.1480 |
| B 249.678 | 62.9453 | ppb | 9.2407 | 14.7 | -982.167 |
| Ba 389.178 | -1.1979 | ppb | 1.6951 | 141.5 | 1445.90 |
| Be 313.042 | -0.2063 | ppb | 0.0062 | 3.0 | -382.093 |
| Ca 370.602 | 753247 | ppb | 2742 | 0.4 | 2051708 |
| Cd 226.502 | 9.2180 | ppb | 0.6023 | 6.5 | 3782.47 |
| Co 228.615 | -10.7442 | ppb | 0.5030 | 4.7 | -58.5385 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | -3.7663 | ppb | 0.2500 | 6.6 | 268.180 |
| Cu 324.754 | 1.2545 | ppb | 0.3763 | 30.0 | 727.206 |
| Fe 271.441 | 892762 | ppb | 1302.84 | 0.1 | 1415350 |
| K 766.491 | 28.6517 | ppb | 0.3563 | 1.2 | 1483.07 |
| Mg 279.078 | 763200 | ppb | 1913.50 | 0.3 | 2075258 |
| Mn 257.610 | 5.4348 | ppb | 0.2399 | 4.4 | 8362.94 |
| Mo 202.032 | 2.7482 | ppb | 0.7939 | 28.9 | -17.7625 |
| Na 330.237 | -113.444 | ppb | 143.388 | 126.4 | -187.644 |
| Ni 231.604 | -18.2705 | ppb | 0.8493 | 4.6 | 15.2419 |
| Pb 220.353 | 11.0639 | ppb | 1.3634 | 12.3 | 77.8834 |
| Sb 206.834 | -2.6401 | ppb | 10.0272 | 379.8 | 22.8240 |
| Se 196.026 | -2.4374 | ppb | 14.3761 | 589.8 | 10.9486 |
| Sn 189.925 | -6.4497 | ppb | 2.8655 | 44.4 | -9.5655 |
| Sr 216.596 | 8.2771 | ppb | 0.3651 | 4.4 | 1488.23 |
| Ti 334.941 | 3.5124 | ppb | 0.4300 | 12.2 | 2507.24 |
| Tl 190.794 | -40.7554 | ppb | 4.0386 | 9.9 | -173.713 |
| V 292.401 | -27.9949 | ppb | 0.0394 | 0.1 | -408.770 |
| Zn 206.200 | 14.0427 | ppb | 2.3773 | 16.9 | -25.0162 |

**LRA3 (Samp)** **10/20/2014, 3:47:23 PM** **Rack S, Tube 9**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.2145 | -0.0370u | 0.0949 |
| Al 308.215 | 27.6211 | 24.2232 | 20.1972 |
| As 188.980 | 10.3098 | 5.2873 | 9.5300 |
| B 249.678 | 19.5381 | 18.6278 | 16.9612 |
| Ba 389.178 | 0.0822 | -0.3511u | 0.2868 |
| Be 313.042 | 0.0052u | 0.0073 | 0.0057u |
| Ca 370.602 | 30.79 | 25.56 | 16.26 |
| Cd 226.502 | 0.0235 | 0.1583 | -0.0598u |
| Co 228.615 | 0.0406 | 0.0112 | 0.0511 |
| Cr 267.716 | 0.1690 | 0.2466 | -0.0121 |
| Cu 324.754 | -0.0281u | 0.1399 | 0.0764 |
| Fe 271.441 | 37.9683 | 33.1151 | 22.4821 |
| K 766.491 | 40515.3x | 40652.7x | 40320.6x |
| Mg 279.078 | 22.8544 | 20.8122 | 20.0839 |
| Mn 257.610 | 0.1801 | 0.1571 | 0.1437 |
| Mo 202.032 | 0.5771 | -0.3668u | 0.2617 |
| Na 330.237 | 104910 | 105559 | 104955 |
| Ni 231.604 | 0.1936 | -0.9044u | -0.1607u |
| Pb 220.353 | -0.1774u | 2.0451 | 1.6149 |
| Sb 206.834 | -0.0348u | 1.9119 | 2.1663 |
| Se 196.026 | -1.0270u | 6.7922 | 10.3129 |
| Sn 189.925 | -1.5508u | -0.6673u | -2.3015u |
| Sr 216.596 | -0.1479u | 0.2498 | 0.2550 |
| Ti 334.941 | 0.6754 | 0.6586 | 0.5817 |
| Tl 190.794 | 2.0680 | -0.2098u | -0.1915u |
| V 292.401 | 0.2119 | -0.4971u | -0.1997u |
| Zn 206.200 | 29556.4x | 29690.2x | 29358.3x |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0908b | ppb | 0.1258 | 138.6 | -11.4216 |
| Al 308.215 | 24.0138b | ppb | 3.7164 | 15.5 | 655.049 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 8.3757b | ppb | 2.7029 | 32.3 | -1.1203 |
| B 249.678 | 18.3757b | ppb | 1.3068 | 7.1 | 346.963 |
| Ba 389.178 | 0.0060b | ppb | 0.3257 | 5444.4 | -67.5926 |
| Be 313.042 | 0.0061b | ppb | 0.0011 | 18.5 | -278.651 |
| Ca 370.602 | 24.20b | ppb | 7.356 | 30.4 | 86.93 |
| Cd 226.502 | 0.0406b | ppb | 0.1101 | 270.8 | 17.8796 |
| Co 228.615 | 0.0343b | ppb | 0.0207 | 60.4 | 4.8992 |
| Cr 267.716 | 0.1345b | ppb | 0.1328 | 98.7 | 43.3071 |
| Cu 324.754 | 0.0627b | ppb | 0.0848 | 135.2 | 249.218 |
| Fe 271.441 | 31.1885b | ppb | 7.9209 | 25.4 | 58.3858 |
| K 766.491 | 40496.2xb | ppb | 166.893 | 0.4 | 1816645 |
| Mg 279.078 | 21.2502b | ppb | 1.4362 | 6.8 | 80.0248 |
| Mn 257.610 | 0.1603b | ppb | 0.0184 | 11.5 | 61.4905 |
| Mo 202.032 | 0.1573b | ppb | 0.4805 | 305.4 | 6.6131 |
| Na 330.237 | 105141b | ppb | 362.239 | 0.3 | 4265.27 |
| Ni 231.604 | -0.2905b | ppb | 0.5604 | 192.9 | -5.7283 |
| Pb 220.353 | 1.1609b | ppb | 1.1787 | 101.5 | 13.6163 |
| Sb 206.834 | 1.3478b | ppb | 1.2041 | 89.3 | -0.5526 |
| Se 196.026 | 5.3594b | ppb | 5.8041 | 108.3 | 2.2851 |
| Sn 189.925 | -1.5065b | ppb | 0.8180 | 54.3 | -5.7715 |
| Sr 216.596 | 0.1190b | ppb | 0.2311 | 194.3 | 7.1057 |
| Ti 334.941 | 0.6386b | ppb | 0.0500 | 7.8 | 134.336 |
| Tl 190.794 | 0.5556b | ppb | 1.3099 | 235.8 | -7.6964 |
| V 292.401 | -0.1616b | ppb | 0.3560 | 220.3 | -18.2688 |
| Zn 206.200 | 29535.0xb | ppb | 166.982 | 0.6 | 32401.6 |

**Cont Calib Verif (CCV)** **10/20/2014, 3:51:39 PM** **Rack 1, Tube 1**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 510.053 | 504.697 | 509.250 |
| Al 308.215 | 4867.40 | 4859.35 | 4875.89 |
| As 188.980 | 483.273 | 492.351 | 480.829 |
| B 249.678 | 494.886 | 496.961 | 499.994 |
| Ba 389.178 | 4994.28 | 4994.64 | 5004.90 |
| Be 313.042 | 501.044 | 500.682 | 501.135 |
| Ca 370.602 | 5056 | 5053 | 5045 |
| Cd 226.502 | 498.723 | 496.910 | 499.797 |
| Co 228.615 | 505.599 | 503.651 | 504.476 |
| Cr 267.716 | 5033.53 | 5022.89 | 5032.77 |
| Cu 324.754 | 5031.74 | 5013.31 | 5082.30 |
| Fe 271.441 | 4941.66 | 4949.99 | 4952.46 |
| K 766.491 | 10198.0 | 10198.0 | 10234.9 |
| Mg 279.078 | 4929.40 | 4925.45 | 4947.35 |
| Mn 257.610 | 5122.90 | 5121.34 | 5118.88 |
| Mo 202.032 | 497.969 | 494.187 | 499.750 |
| Na 330.237 | 7638.98 | 7280.06 | 7680.65 |
| Ni 231.604 | 2526.53 | 2521.46 | 2525.24 |
| Pb 220.353 | 509.032 | 505.587 | 503.612 |
| Sb 206.834 | 965.179 | 966.202 | 963.443 |
| Se 196.026 | 4937.47 | 4940.98 | 4974.04 |
| Sn 189.925 | 4969.23 | 4959.89 | 4925.28 |
| Sr 216.596 | 2480.92 | 2475.02 | 2499.34 |
| Ti 334.941 | 494.337 | 493.983 | 495.560 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 5069.17 | 5071.10 | 5084.08 |
| V 292.401 | 4991.50 | 4987.23 | 4991.61 |
| Zn 206.200 | 2503.39 | 2477.53 | 2504.68 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 508.000 | ppb | 2.8886 | 0.6 | 42889.6 | 101.59994 |
| Al 308.215 | 4867.55 | ppb | 8.2707 | 0.2 | 34157.6 | 97.35091 |
| As 188.980 | 485.484 | ppb | 6.0709 | 1.3 | 320.574 | 97.09690 |
| B 249.678 | 497.280 | ppb | 2.5689 | 0.5 | 8385.07 | 99.45607 |
| Ba 389.178 | 4997.94 | ppb | 6.0315 | 0.1 | 110348 | 99.95878 |
| Be 313.042 | 500.954 | ppb | 0.2400 | 0.0 | 907272 | 100.19078 |
| Ca 370.602 | 5051 | ppb | 5.528 | 0.1 | 14164 | 101.02390 |
| Cd 226.502 | 498.477 | ppb | 1.4594 | 0.3 | 21457.7 | 99.69533 |
| Co 228.615 | 504.576 | ppb | 0.9780 | 0.2 | 5841.89 | 100.91510 |
| Cr 267.716 | 5029.73 | ppb | 5.9347 | 0.1 | 274390 | 100.59465 |
| Cu 324.754 | 5042.45 | ppb | 35.7197 | 0.7 | 373589 | 100.84901 |
| Fe 271.441 | 4948.04 | ppb | 5.6556 | 0.1 | 7965.66 | 98.96073 |
| K 766.491 | 10210.3 | ppb | 21.3047 | 0.2 | 458179 | 102.10316 |
| Mg 279.078 | 4934.06 | ppb | 11.6729 | 0.2 | 13333.8 | 98.68129 |
| Mn 257.610 | 5121.04 | ppb | 2.0275 | 0.0 | 953767 | 102.42072 |
| Mo 202.032 | 497.302 | ppb | 2.8413 | 0.6 | 3406.55 | 99.46040 |
| Na 330.237 | 7533.23 | ppb | 220.241 | 2.9 | 318.461 | 100.44304 |
| Ni 231.604 | 2524.41 | ppb | 2.6360 | 0.1 | 7881.02 | 100.97647 |
| Pb 220.353 | 506.077 | ppb | 2.7433 | 0.5 | 820.905 | 101.21538 |
| Sb 206.834 | 964.941 | ppb | 1.3949 | 0.1 | 1433.73 | 96.49409 |
| Se 196.026 | 4950.83 | ppb | 20.1755 | 0.4 | 2311.00 | 99.01663 |
| Sn 189.925 | 4951.47 | ppb | 23.1537 | 0.5 | 3761.84 | 99.02934 |
| Sr 216.596 | 2485.09 | ppb | 12.6839 | 0.5 | 30883.4 | 99.40364 |
| Ti 334.941 | 494.627 | ppb | 0.8275 | 0.2 | 146115 | 98.92540 |
| Tl 190.794 | 5074.78 | ppb | 8.1093 | 0.2 | 5580.38 | 101.49567 |
| V 292.401 | 4990.11 | ppb | 2.5002 | 0.1 | 126554 | 99.80227 |
| Zn 206.200 | 2495.20 | ppb | 15.3166 | 0.6 | 2722.38 | 99.80791 |

**Cont Calib Blank (CCB)** **10/20/2014, 3:55:54 PM** **Rack 1, Tube 2**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0026u | -0.0336u | 0.0615 |
| Al 308.215 | 4.9439 | 3.2839 | 3.5195 |
| As 188.980 | 2.7592 | 2.6580 | -0.0013u |
| B 249.678 | 12.3811 | 11.3319 | 10.5495 |
| Ba 389.178 | 0.9053 | 1.2341 | -0.0293u |
| Be 313.042 | 0.0406 | 0.0366 | 0.0386 |
| Ca 370.602 | 3.304 | 10.20 | 2.712 |
| Cd 226.502 | -0.0481u | 0.0095 | 0.0679 |
| Co 228.615 | 0.3276 | 0.4988 | 0.1074 |
| Cr 267.716 | 0.5278 | 0.2646 | 0.4575 |
| Cu 324.754 | 0.4303 | 0.5753 | 0.4612 |
| Fe 271.441 | 6.2933 | 7.5979 | 3.1184 |
| K 766.491 | 2.2952 | 1.8732 | 2.0128 |
| Mg 279.078 | 7.0746 | 2.2018 | 3.6708 |
| Mn 257.610 | 0.6127 | 0.5762 | 0.5860 |
| Mo 202.032 | 0.7432 | 0.4644 | 0.1583 |
| Na 330.237 | -153.954u | -23.5527u | 139.427 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | -0.3855u | 0.7804 | 0.3426 |
| Pb 220.353 | -2.7366u | -1.2663u | 0.6675 |
| Sb 206.834 | 2.7226 | 0.0326 | 1.8343 |
| Se 196.026 | 0.4472 | 1.9768 | 0.0091 |
| Sn 189.925 | 1.0492 | 0.0569 | -2.6582u |
| Sr 216.596 | 0.1601 | 0.0814 | 0.1820 |
| Ti 334.941 | 0.2423 | 0.2621 | 0.2167 |
| Tl 190.794 | 0.2353 | 0.1944 | 4.4613 |
| V 292.401 | 0.4508 | -0.0387u | 0.5384 |
| Zn 206.200 | 3.6504 | -0.4965u | 0.8781 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.0085 | ppb | 0.0485 | 573.5 | -18.3777 | 0.00846 |
| Al 308.215 | 3.9158 | ppb | 0.8981 | 22.9 | 518.277 | 3.91576 |
| As 188.980 | 1.8053 | ppb | 1.5654 | 86.7 | -5.5523 | 1.80532 |
| B 249.678 | 11.4208 | ppb | 0.9190 | 8.0 | 230.206 | 11.42085 |
| Ba 389.178 | 0.7034 | ppb | 0.6555 | 93.2 | -52.2202 | 0.70336 |
| Be 313.042 | 0.0386 | ppb | 0.0020 | 5.2 | -208.850 | 0.03856 |
| Ca 370.602 | 5.405 | ppb | 4.162 | 77.0 | 35.60 | 5.40503 |
| Cd 226.502 | 0.0098 | ppb | 0.0580 | 594.3 | 17.0930 | 0.00977 |
| Co 228.615 | 0.3113 | ppb | 0.1962 | 63.0 | 8.0545 | 0.31126 |
| Cr 267.716 | 0.4166 | ppb | 0.1363 | 32.7 | 57.2882 | 0.41663 |
| Cu 324.754 | 0.4890 | ppb | 0.0764 | 15.6 | 280.773 | 0.48897 |
| Fe 271.441 | 5.6699 | ppb | 2.3039 | 40.6 | 17.9567 | 5.66987 |
| K 766.491 | 2.0604 | ppb | 0.2150 | 10.4 | 290.324 | 2.06039 |
| Mg 279.078 | 4.3157 | ppb | 2.4996 | 57.9 | 33.9704 | 4.31574 |
| Mn 257.610 | 0.5916 | ppb | 0.0189 | 3.2 | 142.080 | 0.59161 |
| Mo 202.032 | 0.4553 | ppb | 0.2925 | 64.3 | 8.6547 | 0.45529 |
| Na 330.237 | -12.6934 | ppb | 146.992 | 1158.0 | 24.7758 | -12.69338 |
| Ni 231.604 | 0.2458 | ppb | 0.5890 | 239.6 | -4.0887 | 0.24584 |
| Pb 220.353 | -1.1118 | ppb | 1.7073 | 153.6 | 10.0010 | -1.11178 |
| Sb 206.834 | 1.5298 | ppb | 1.3706 | 89.6 | -0.2941 | 1.52984 |
| Se 196.026 | 0.8110 | ppb | 1.0331 | 127.4 | 0.1627 | 0.81100 |
| Sn 189.925 | -0.5173 | ppb | 1.9193 | 371.0 | -5.0509 | -0.51733 |
| Sr 216.596 | 0.1412 | ppb | 0.0529 | 37.5 | 7.3294 | 0.14115 |
| Ti 334.941 | 0.2404 | ppb | 0.0228 | 9.5 | 24.6859 | 0.24038 |
| Tl 190.794 | 1.6303 | ppb | 2.4518 | 150.4 | -6.5111 | 1.63030 |
| V 292.401 | 0.3169 | ppb | 0.3110 | 98.2 | -5.4545 | 0.31685 |
| Zn 206.200 | 1.3440 | ppb | 2.1124 | 157.2 | 2.4864 | 1.34403 |

**680-106200-b-1-a^10 (Samp)** **10/20/2014, 4:00:09 PM** **Rack 1, Tube 3**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2108 | -0.2094 | -0.4798u |
| Al 308.215 | 12170.9 | 12011.0 | 11832.0 |
| As 188.980 | 30.6710 | 29.0593 | 25.7522 |
| B 249.678 | 8.1481 | 8.1221 | 8.1764 |
| Ba 389.178 | 530.542 | 522.932 | 516.148 |
| Be 313.042 | 1.5856 | 1.5539 | 1.5351 |
| Ca 370.602 | 7190 | 7085 | 6963 |
| Cd 226.502 | 0.7086 | 0.5153 | 0.3720 |
| Co 228.615 | 27.3822 | 27.0047 | 26.9699 |
| Cr 267.716 | 42.3755 | 42.0076 | 41.4035 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 52.4207 | 52.1819 | 51.1392 |
| Fe 271.441 | 51477.5 | 51169.5 | 50452.3 |
| K 766.491 | 738.992 | 727.526 | 718.146 |
| Mg 279.078 | 1761.22 | 1740.49 | 1703.61 |
| Mn 257.610 | 6425.52 | 6321.20 | 6198.08 |
| Mo 202.032 | 3.8030 | 4.0952 | 3.6178 |
| Na 330.237 | 242.718u | 413.190u | 143.728u |
| Ni 231.604 | 15.5552 | 15.2263 | 14.7656 |
| Pb 220.353 | 212.482 | 204.400 | 197.838 |
| Sb 206.834 | -0.2600 | 3.3065 | -2.0182u |
| Se 196.026 | 7.4768 | -2.1834 | -3.2984 |
| Sn 189.925 | 12.2473 | 12.0207 | 15.4173 |
| Sr 216.596 | 49.2575 | 47.7654 | 46.9448 |
| Ti 334.941 | 151.749 | 149.749 | 147.655 |
| Tl 190.794 | -3.7214u | 3.4390 | 1.0963u |
| V 292.401 | 66.1470 | 65.7287 | 64.6323 |
| Zn 206.200 | 427.714 | 419.754 | 419.482 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.3000 | ppb | 0.1557 | 51.9 | -22.6818 |
| Al 308.215 | 12004.7 | ppb | 169.536 | 1.4 | 82298.7 |
| As 188.980 | 28.4941 | ppb | 2.5076 | 8.8 | 12.2369 |
| B 249.678 | 8.1489 | ppb | 0.0271 | 0.3 | 56.4970 |
| Ba 389.178 | 523.207 | ppb | 7.2011 | 1.4 | 11519.0 |
| Be 313.042 | 1.5582 | ppb | 0.0255 | 1.6 | 2546.55 |
| Ca 370.602 | 7079 | ppb | 113.7 | 1.6 | 19024 |
| Cd 226.502 | 0.5320 | ppb | 0.1689 | 31.7 | 231.642 |
| Co 228.615 | 27.1189 | ppb | 0.2286 | 0.8 | 324.563 |
| Cr 267.716 | 41.9289 | ppb | 0.4908 | 1.2 | 2376.66 |
| Cu 324.754 | 51.9139 | ppb | 0.6815 | 1.3 | 4110.26 |
| Fe 271.441 | 51033.1 | ppb | 526.059 | 1.0 | 80918.3 |
| K 766.491 | 728.221 | ppb | 10.4403 | 1.4 | 32862.1 |
| Mg 279.078 | 1735.11 | ppb | 29.1796 | 1.7 | 4608.21 |
| Mn 257.610 | 6314.93 | ppb | 113.847 | 1.8 | 1176203 |
| Mo 202.032 | 3.8387 | ppb | 0.2407 | 6.3 | 29.3505 |
| Na 330.237 | 266.545 | ppb | 136.302 | 51.1 | 15.5341 |
| Ni 231.604 | 15.1824 | ppb | 0.3966 | 2.6 | 46.9062 |
| Pb 220.353 | 204.907 | ppb | 7.3349 | 3.6 | 342.111 |
| Sb 206.834 | 0.3427 | ppb | 2.7130 | 791.6 | 0.0944 |
| Se 196.026 | 0.6650 | ppb | 5.9255 | 891.1 | 2.2442 |
| Sn 189.925 | 13.2285 | ppb | 1.8990 | 14.4 | 5.4053 |
| Sr 216.596 | 47.9893 | ppb | 1.1725 | 2.4 | 667.987 |
| Ti 334.941 | 149.718 | ppb | 2.0473 | 1.4 | 44201.9 |
| Tl 190.794 | 0.2713 | ppb | 3.6508 | 1345.7 | -11.5443 |
| V 292.401 | 65.5027 | ppb | 0.7823 | 1.2 | 1669.26 |
| Zn 206.200 | 422.317 | ppb | 4.6766 | 1.1 | 461.804 |

**680-106200-b-1-aSD (Samp)** **10/20/2014, 4:04:24 PM** **Rack 1, Tube 4**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1055 | -0.0316 | -0.0932u |
| Al 308.215 | 2449.54 | 2376.02 | 2254.99 |
| As 188.980 | 3.8303 | 5.6068 | 2.4748 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 3.5894 | 3.6224 | 3.5833 |
| Ba 389.178 | 106.737 | 104.110 | 97.8094 |
| Be 313.042 | 0.2952 | 0.2808 | 0.2712 |
| Ca 370.602 | 1443 | 1414 | 1343 |
| Cd 226.502 | -0.0248 | 0.0122 | -0.0825 |
| Co 228.615 | 5.5690 | 5.7134 | 4.9013 |
| Cr 267.716 | 8.6478 | 8.3228 | 7.9797 |
| Cu 324.754 | 9.9816 | 10.4733 | 9.5994 |
| Fe 271.441 | 10327.2 | 10038.6 | 9519.27 |
| K 766.491 | 146.750 | 143.324 | 136.889 |
| Mg 279.078 | 349.963 | 343.683 | 327.830 |
| Mn 257.610 | 1321.65 | 1288.83 | 1222.77 |
| Mo 202.032 | 0.8471 | 0.5170 | 0.9493 |
| Na 330.237 | 63.2793u | 114.844 | 61.4133u |
| Ni 231.604 | 3.5655 | 3.6978 | 1.9061 |
| Pb 220.353 | 40.3109 | 39.6723 | 37.6690 |
| Sb 206.834 | -1.8569u | 1.0217 | 0.6141 |
| Se 196.026 | 8.6238 | 4.1011 | 3.9195 |
| Sn 189.925 | 0.2991 | -0.0654u | 1.5413 |
| Sr 216.596 | 9.7817 | 9.2774 | 8.4657 |
| Ti 334.941 | 30.4571 | 29.4697 | 28.0073 |
| Tl 190.794 | 0.8677 | 2.7982 | 0.4606u |
| V 292.401 | 12.7015 | 12.8576 | 12.3406 |
| Zn 206.200 | 84.3013 | 81.7902 | 79.1387 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0064 | ppb | 0.1017 | 1587.0 | -15.1594 |
| Al 308.215 | 2360.19 | ppb | 98.2375 | 4.2 | 16575.2 |
| As 188.980 | 3.9706 | ppb | 1.5707 | 39.6 | -4.1331 |
| B 249.678 | 3.5983 | ppb | 0.0210 | 0.6 | 75.7702 |
| Ba 389.178 | 102.885 | ppb | 4.5880 | 4.5 | 2210.65 |
| Be 313.042 | 0.2824 | ppb | 0.0121 | 4.3 | 233.409 |
| Ca 370.602 | 1400 | ppb | 51.41 | 3.7 | 3782 |
| Cd 226.502 | -0.0317 | ppb | 0.0478 | 150.6 | 52.8077 |
| Co 228.615 | 5.3946 | ppb | 0.4333 | 8.0 | 68.1144 |
| Cr 267.716 | 8.3168 | ppb | 0.3341 | 4.0 | 499.161 |
| Cu 324.754 | 10.0181 | ppb | 0.4381 | 4.4 | 990.585 |
| Fe 271.441 | 9961.69 | ppb | 409.425 | 4.1 | 15802.5 |
| K 766.491 | 142.321 | ppb | 5.0064 | 3.5 | 6581.67 |
| Mg 279.078 | 340.492 | ppb | 11.4067 | 3.4 | 921.451 |
| Mn 257.610 | 1277.75 | ppb | 50.3644 | 3.9 | 238015 |
| Mo 202.032 | 0.7711 | ppb | 0.2260 | 29.3 | 10.3345 |
| Na 330.237 | 79.8454 | ppb | 30.3236 | 38.0 | 24.7842 |
| Ni 231.604 | 3.0565 | ppb | 0.9985 | 32.7 | 5.5379 |
| Pb 220.353 | 39.2174 | ppb | 1.3784 | 3.5 | 75.0197 |
| Sb 206.834 | -0.0737 | ppb | 1.5577 | 2113.8 | -2.1839 |
| Se 196.026 | 5.5481 | ppb | 2.6652 | 48.0 | 2.8022 |
| Sn 189.925 | 0.5917 | ppb | 0.8423 | 142.4 | -4.2073 |
| Sr 216.596 | 9.1749 | ppb | 0.6640 | 7.2 | 132.474 |
| Ti 334.941 | 29.3114 | ppb | 1.2326 | 4.2 | 8616.48 |
| Tl 190.794 | 1.3755 | ppb | 1.2488 | 90.8 | -7.4606 |
| V 292.401 | 12.6333 | ppb | 0.2652 | 2.1 | 311.139 |
| Zn 206.200 | 81.7434 | ppb | 2.5816 | 3.2 | 90.1990 |

**680-106200-b-1-aPDS (Samp)** **10/20/2014, 4:08:40 PM** **Rack 1, Tube 5**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 108.187 | 106.888 | 103.390 |
| Al 308.215 | 13295.3 | 12914.3 | 12615.2 |
| As 188.980 | 134.436 | 128.404 | 127.757 |
| B 249.678 | 212.990 | 209.338 | 205.798 |
| Ba 389.178 | 615.022 | 597.323 | 584.824 |
| Be 313.042 | 110.740 | 107.612 | 105.218 |
| Ca 370.602 | 18340 | 17796 | 17380 |
| Cd 226.502 | 105.612 | 103.099 | 100.487 |
| Co 228.615 | 135.560 | 132.285 | 129.140 |
| Cr 267.716 | 150.821 | 146.486 | 143.121 |
| Cu 324.754 | 162.665 | 158.166 | 154.233 |
| Fe 271.441 | 61668.1 | 59812.4 | 58393.3 |
| K 766.491 | 11995.4 | 11665.2 | 11400.6 |
| Mg 279.078 | 12263.3 | 11911.0 | 11638.1 |
| Mn 257.610 | 7513.22 | 7320.91 | 7125.19 |
| Mo 202.032 | 110.312 | 106.836 | 105.196 |
| Na 330.237 | 8982.44 | 8866.23 | 8748.18 |
| Ni 231.604 | 120.716 | 118.784 | 115.286 |
| Pb 220.353 | 313.976 | 301.576 | 302.926 |
| Sb 206.834 | 103.753 | 104.878 | 99.9771 |
| Se 196.026 | 97.2170 | 95.8863 | 111.814 |
| Sn 189.925 | 116.854 | 113.001 | 112.178 |
| Sr 216.596 | 154.724 | 149.762 | 147.141 |
| Ti 334.941 | 258.894 | 251.987 | 246.279 |
| Tl 190.794 | 20.7603 | 24.6105 | 20.0264 |
| V 292.401 | 175.399 | 170.328 | 167.012 |
| Zn 206.200 | 523.879 | 520.559 | 500.419 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 106.155 | ppb | 2.4811 | 2.3 | 8978.79 |
| Al 308.215 | 12941.6 | ppb | 340.842 | 2.6 | 88707.6 |
| As 188.980 | 130.199 | ppb | 3.6835 | 2.8 | 80.7589 |
| B 249.678 | 209.375 | ppb | 3.5959 | 1.7 | 3413.41 |
| Ba 389.178 | 599.056 | ppb | 15.1731 | 2.5 | 13213.9 |
| Be 313.042 | 107.857 | ppb | 2.7691 | 2.6 | 195072 |
| Ca 370.602 | 17838 | ppb | 481.5 | 2.7 | 48440 |
| Cd 226.502 | 103.066 | ppb | 2.5630 | 2.5 | 4671.94 |
| Co 228.615 | 132.328 | ppb | 3.2103 | 2.4 | 1540.72 |
| Cr 267.716 | 146.809 | ppb | 3.8601 | 2.6 | 8105.26 |
| Cu 324.754 | 158.355 | ppb | 4.2195 | 2.7 | 11998.8 |
| Fe 271.441 | 59957.9 | ppb | 1642.26 | 2.7 | 95081.2 |
| K 766.491 | 11687.0 | ppb | 298.013 | 2.5 | 524417 |
| Mg 279.078 | 11937.5 | ppb | 313.435 | 2.6 | 32334.3 |
| Mn 257.610 | 7319.77 | ppb | 194.018 | 2.7 | 1363423 |
| Mo 202.032 | 107.448 | ppb | 2.6122 | 2.4 | 738.574 |
| Na 330.237 | 8865.62 | ppb | 117.132 | 1.3 | 417.098 |
| Ni 231.604 | 118.262 | ppb | 2.7524 | 2.3 | 369.457 |
| Pb 220.353 | 306.159 | ppb | 6.8028 | 2.2 | 503.769 |
| Sb 206.834 | 102.870 | ppb | 2.5673 | 2.5 | 147.110 |
| Se 196.026 | 101.639 | ppb | 8.8367 | 8.7 | 49.6968 |
| Sn 189.925 | 114.011 | ppb | 2.4959 | 2.2 | 82.0721 |
| Sr 216.596 | 150.542 | ppb | 3.8515 | 2.6 | 1955.88 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 252.387 | ppb | 6.3172 | 2.5 | 74557.1 |
| Tl 190.794 | 21.7990 | ppb | 2.4623 | 11.3 | 11.5249 |
| V 292.401 | 170.913 | ppb | 4.2237 | 2.5 | 4333.11 |
| Zn 206.200 | 514.952 | ppb | 12.6955 | 2.5 | 562.686 |

**680-106200-a-1-a ms (Samp)** **10/20/2014, 4:12:56 PM** **Rack 1, Tube 6**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 6.0486 | 5.9884 | 5.5098 |
| Al 308.215 | 15757.3 | 15388.4 | 14960.7 |
| As 188.980 | 41.9971 | 38.4182 | 42.0151 |
| B 249.678 | 27.5615 | 27.8341 | 27.2039 |
| Ba 389.178 | 358.014 | 347.997 | 337.751 |
| Be 313.042 | 7.6977 | 7.5140 | 7.2937 |
| Ca 370.602 | 10987 | 10761 | 10481 |
| Cd 226.502 | 6.3609 | 6.0156 | 5.6332 |
| Co 228.615 | 21.7758 | 21.8442 | 21.1490 |
| Cr 267.716 | 52.9452 | 52.0621 | 50.1841 |
| Cu 324.754 | 66.7729 | 65.6108 | 63.3964 |
| Fe 271.441 | 54503.3 | 53147.6 | 51686.3 |
| K 766.491 | 1887.06 | 1838.23 | 1798.53 |
| Mg 279.078 | 3407.68 | 3346.44 | 3249.19 |
| Mn 257.610 | 1936.16 | 1893.45 | 1846.21 |
| Mo 202.032 | 13.2161 | 13.3226 | 12.4711 |
| Na 330.237 | 874.992 | 853.752 | 943.025 |
| Ni 231.604 | 27.3107 | 26.9799 | 25.7377 |
| Pb 220.353 | 264.454 | 258.691 | 250.886 |
| Sb 206.834 | 4.1859 | 2.3528 | 0.0524 |
| Se 196.026 | 10.1080 | 11.3905 | 8.3024 |
| Sn 189.925 | 35.8068 | 35.3698 | 34.1003 |
| Sr 216.596 | 67.7395 | 66.6156 | 64.8757 |
| Ti 334.941 | 224.353 | 218.834 | 212.790 |
| Tl 190.794 | 1.1932u | 3.6097u | 1.9192u |
| V 292.401 | 71.2833 | 69.6119 | 68.3614 |
| Zn 206.200 | 456.679 | 444.638 | 428.867 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 5.8489 | ppb | 0.2952 | 5.0 | 473.879 |
| Al 308.215 | 15368.8 | ppb | 398.704 | 2.6 | 105202 |
| As 188.980 | 40.8101 | ppb | 2.0715 | 5.1 | 20.5628 |
| B 249.678 | 27.5332 | ppb | 0.3160 | 1.1 | 376.865 |
| Ba 389.178 | 347.920 | ppb | 10.1317 | 2.9 | 7650.72 |
| Be 313.042 | 7.5018 | ppb | 0.2023 | 2.7 | 13313.4 |
| Ca 370.602 | 10743 | ppb | 253.8 | 2.4 | 28953 |
| Cd 226.502 | 6.0032 | ppb | 0.3640 | 6.1 | 474.764 |
| Co 228.615 | 21.5897 | ppb | 0.3832 | 1.8 | 262.011 |
| Cr 267.716 | 51.7305 | ppb | 1.4101 | 2.7 | 2891.16 |
| Cu 324.754 | 65.2601 | ppb | 1.7154 | 2.6 | 5099.78 |
| Fe 271.441 | 53112.4 | ppb | 1408.86 | 2.7 | 84214.1 |
| K 766.491 | 1841.27 | ppb | 44.3429 | 2.4 | 82787.7 |
| Mg 279.078 | 3334.44 | ppb | 79.9267 | 2.4 | 9046.13 |
| Mn 257.610 | 1891.94 | ppb | 44.9905 | 2.4 | 352525 |
| Mo 202.032 | 13.0033 | ppb | 0.4640 | 3.6 | 92.0269 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 890.590 | ppb | 46.6353 | 5.2 | 43.8613 |
| Ni 231.604 | 26.6761 | ppb | 0.8293 | 3.1 | 83.0119 |
| Pb 220.353 | 258.010 | ppb | 6.8097 | 2.6 | 425.718 |
| Sb 206.834 | 2.1970 | ppb | 2.0711 | 94.3 | 2.7866 |
| Se 196.026 | 9.9336 | ppb | 1.5514 | 15.6 | 5.5850 |
| Sn 189.925 | 35.0923 | ppb | 0.8865 | 2.5 | 22.0369 |
| Sr 216.596 | 66.4103 | ppb | 1.4429 | 2.2 | 900.903 |
| Ti 334.941 | 218.659 | ppb | 5.7830 | 2.6 | 64576.0 |
| Tl 190.794 | 2.2407 | ppb | 1.2399 | 55.3 | -11.9313 |
| V 292.401 | 69.7522 | ppb | 1.4660 | 2.1 | 1777.22 |
| Zn 206.200 | 443.395 | ppb | 13.9477 | 3.1 | 484.799 |

**680-106200-a-1-b msd (Samp)** **10/20/2014, 4:17:12 PM** **Rack 1, Tube 7**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 6.3243 | 6.0051 | 5.5217 |
| Al 308.215 | 14900.3 | 14513.4 | 14016.4 |
| As 188.980 | 50.6708 | 46.5952 | 43.6851 |
| B 249.678 | 27.2604 | 26.7458 | 26.9909 |
| Ba 389.178 | 389.833 | 380.231 | 368.038 |
| Be 313.042 | 7.7154 | 7.5029 | 7.2558 |
| Ca 370.602 | 13004 | 12657 | 12209 |
| Cd 226.502 | 7.0206 | 6.6159 | 6.2711 |
| Co 228.615 | 21.5992 | 21.7802 | 20.8217 |
| Cr 267.716 | 48.3034 | 47.2091 | 45.3526 |
| Cu 324.754 | 175.661 | 168.853 | 164.119 |
| Fe 271.441 | 54309.6 | 52802.1 | 51018.3 |
| K 766.491 | 1794.88 | 1746.01 | 1696.05 |
| Mg 279.078 | 3345.47 | 3264.21 | 3148.75 |
| Mn 257.610 | 2607.52 | 2556.07 | 2509.16 |
| Mo 202.032 | 13.5025 | 12.8003 | 12.4646 |
| Na 330.237 | 934.355 | 911.500 | 758.683 |
| Ni 231.604 | 33.5975 | 32.8583 | 31.1388 |
| Pb 220.353 | 320.745 | 307.005 | 298.884 |
| Sb 206.834 | 2.4358 | 0.2757 | -1.2889 |
| Se 196.026 | 13.3806 | 12.0733 | 14.2250 |
| Sn 189.925 | 47.8467 | 46.0693 | 47.0907 |
| Sr 216.596 | 77.7301 | 76.4117 | 72.9262 |
| Ti 334.941 | 212.792 | 207.159 | 200.164 |
| Tl 190.794 | 4.3117u | 3.1180u | 3.3501u |
| V 292.401 | 65.9958 | 63.8916 | 61.4757 |
| Zn 206.200 | 599.003 | 583.217 | 565.732 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 5.9504 | ppb | 0.4041 | 6.8 | 485.587 |
| Al 308.215 | 14476.7 | ppb | 443.092 | 3.1 | 99128.6 |
| As 188.980 | 46.9837 | ppb | 3.5090 | 7.5 | 24.7207 |
| B 249.678 | 26.9990 | ppb | 0.2574 | 1.0 | 368.881 |
| Ba 389.178 | 379.367 | ppb | 10.9233 | 2.9 | 8344.95 |
| Be 313.042 | 7.4913 | ppb | 0.2300 | 3.1 | 13294.5 |
| Ca 370.602 | 12623 | ppb | 398.7 | 3.2 | 34116 |
| Cd 226.502 | 6.6359 | ppb | 0.3751 | 5.7 | 500.317 |
| Co 228.615 | 21.4004 | ppb | 0.5092 | 2.4 | 259.525 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 46.9551 | ppb | 1.4917 | 3.2 | 2633.68 |
| Cu 324.754 | 169.544 | ppb | 5.8023 | 3.4 | 12822.0 |
| Fe 271.441 | 52710.0 | ppb | 1647.56 | 3.1 | 83576.1 |
| K 766.491 | 1745.65 | ppb | 49.4154 | 2.8 | 78498.4 |
| Mg 279.078 | 3252.81 | ppb | 98.8572 | 3.0 | 8810.88 |
| Mn 257.610 | 2557.58 | ppb | 49.1999 | 1.9 | 476487 |
| Mo 202.032 | 12.9225 | ppb | 0.5296 | 4.1 | 91.5000 |
| Na 330.237 | 868.180 | ppb | 95.5125 | 11.0 | 39.4824 |
| Ni 231.604 | 32.5315 | ppb | 1.2615 | 3.9 | 101.268 |
| Pb 220.353 | 308.878 | ppb | 11.0502 | 3.6 | 506.730 |
| Sb 206.834 | 0.4742 | ppb | 1.8703 | 394.4 | 0.2495 |
| Se 196.026 | 13.2263 | ppb | 1.0841 | 8.2 | 7.2687 |
| Sn 189.925 | 47.0022 | ppb | 0.8920 | 1.9 | 31.0965 |
| Sr 216.596 | 75.6893 | ppb | 2.4821 | 3.3 | 1016.48 |
| Ti 334.941 | 206.705 | ppb | 6.3261 | 3.1 | 61043.6 |
| Tl 190.794 | 3.5933 | ppb | 0.6329 | 17.6 | -10.0582 |
| V 292.401 | 63.7877 | ppb | 2.2618 | 3.5 | 1625.48 |
| Zn 206.200 | 582.651 | ppb | 16.6431 | 2.9 | 637.601 |

**680-106200-b-11-a^10 (Samp)** **10/20/2014, 4:21:29 PM** **Rack 1, Tube 8**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.8558u | -0.8729u | -0.5447u |
| Al 308.215 | 15851.0 | 15461.9 | 14988.6 |
| As 188.980 | 59.3630 | 66.9834 | 61.5377 |
| B 249.678 | 3.7223u | 4.1535u | 4.4151u |
| Ba 389.178 | 391.992 | 382.846 | 370.197 |
| Be 313.042 | 1.3633 | 1.3285 | 1.2885 |
| Ca 370.602 | 9363 | 9113 | 8863 |
| Cd 226.502 | -0.6603 | -0.7278 | -0.9309 |
| Co 228.615 | 55.2712 | 53.4489 | 52.1008 |
| Cr 267.716 | 33.4648 | 32.5385 | 31.6549 |
| Cu 324.754 | 41.5721 | 39.4960 | 39.9594 |
| Fe 271.441 | 64006.2 | 62294.6 | 60586.8 |
| K 766.491 | 761.872 | 742.859 | 722.144 |
| Mg 279.078 | 3043.89 | 2969.88 | 2884.58 |
| Mn 257.610 | 4773.04 | 4645.65 | 4528.58 |
| Mo 202.032 | 3.9486 | 3.5057 | 3.5999 |
| Na 330.237 | 124.017u | -21.0532u | 72.9412u |
| Ni 231.604 | 24.1791 | 24.9678 | 23.4368 |
| Pb 220.353 | 104.589 | 106.466 | 102.261 |
| Sb 206.834 | -3.3447u | 1.1458 | 1.8340 |
| Se 196.026 | 2.5049 | 2.9792 | -7.6318u |
| Sn 189.925 | 4.2983 | 2.2016 | 1.4681 |
| Sr 216.596 | 20.1332 | 19.5819 | 18.8567 |
| Ti 334.941 | 146.512 | 142.605 | 138.429 |
| Tl 190.794 | 1.1448u | 0.0618u | -2.5556u |
| V 292.401 | 73.2023 | 71.1644 | 69.4093 |
| Zn 206.200 | 99.5127 | 98.8333 | 96.7934 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.7578 | ppb | 0.1847 | 24.4 | -70.6335 |
| Al 308.215 | 15433.9 | ppb | 431.892 | 2.8 | 105660 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 62.6280 | ppb | 3.9255 | 6.3 | 35.2225 |
| B 249.678 | 4.0970 | ppb | 0.3498 | 8.5 | -37.7189 |
| Ba 389.178 | 381.678 | ppb | 10.9446 | 2.9 | 8400.76 |
| Be 313.042 | 1.3268 | ppb | 0.0374 | 2.8 | 2128.87 |
| Ca 370.602 | 9113 | ppb | 249.9 | 2.7 | 24419 |
| Cd 226.502 | -0.7730 | ppb | 0.1408 | 18.2 | 218.026 |
| Co 228.615 | 53.6069 | ppb | 1.5911 | 3.0 | 631.346 |
| Cr 267.716 | 32.5527 | ppb | 0.9050 | 2.8 | 1862.72 |
| Cu 324.754 | 40.3425 | ppb | 1.0898 | 2.7 | 3258.21 |
| Fe 271.441 | 62295.9 | ppb | 1709.67 | 2.7 | 98777.0 |
| K 766.491 | 742.291 | ppb | 19.8701 | 2.7 | 33493.2 |
| Mg 279.078 | 2966.12 | ppb | 79.7238 | 2.7 | 7987.75 |
| Mn 257.610 | 4649.09 | ppb | 122.271 | 2.6 | 866010 |
| Mo 202.032 | 3.6847 | ppb | 0.2333 | 6.3 | 27.7568 |
| Na 330.237 | 58.6350 | ppb | 73.5856 | 125.5 | 11.0256 |
| Ni 231.604 | 24.1945 | ppb | 0.7656 | 3.2 | 75.9674 |
| Pb 220.353 | 104.439 | ppb | 2.1068 | 2.0 | 182.711 |
| Sb 206.834 | -0.1216 | ppb | 2.8124 | 2312.5 | -0.3097 |
| Se 196.026 | -0.7159 | ppb | 5.9941 | 837.3 | 1.3819 |
| Sn 189.925 | 2.6560 | ppb | 1.4688 | 55.3 | -2.6371 |
| Sr 216.596 | 19.5239 | ppb | 0.6402 | 3.3 | 327.855 |
| Ti 334.941 | 142.515 | ppb | 4.0422 | 2.8 | 42077.5 |
| Tl 190.794 | -0.4497 | ppb | 1.9025 | 423.1 | -14.5876 |
| V 292.401 | 71.2587 | ppb | 1.8983 | 2.7 | 1819.83 |
| Zn 206.200 | 98.3798 | ppb | 1.4152 | 1.4 | 105.941 |

**680-106200-b-33-a^10 (Samp)** **10/20/2014, 4:25:45 PM** **Rack 1, Tube 9**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.4982u | -0.0825 | -0.5498u |
| Al 308.215 | 12908.8 | 12676.3 | 12442.3 |
| As 188.980 | 19.3873 | 28.8055 | 26.8407 |
| B 249.678 | 4.5578u | 4.4709u | 4.4774u |
| Ba 389.178 | 393.321 | 387.238 | 381.024 |
| Be 313.042 | 1.9623 | 1.9208 | 1.8797 |
| Ca 370.602 | 10044 | 9844 | 9686 |
| Cd 226.502 | 0.0016 | -0.0498 | -0.2221 |
| Co 228.615 | 23.2163 | 23.2525 | 22.0196 |
| Cr 267.716 | 46.0102 | 44.7516 | 44.0614 |
| Cu 324.754 | 26.3420 | 25.4231 | 25.0829 |
| Fe 271.441 | 48923.3 | 48007.4 | 47108.2 |
| K 766.491 | 830.985 | 816.093 | 804.297 |
| Mg 279.078 | 935.910 | 917.997 | 906.571 |
| Mn 257.610 | 4476.16 | 4391.83 | 4308.34 |
| Mo 202.032 | 2.8887 | 2.9220 | 3.2018 |
| Na 330.237 | 11.7168u | 67.4469u | 117.034u |
| Ni 231.604 | 12.1488 | 10.9616 | 11.5305 |
| Pb 220.353 | 131.211 | 124.792 | 123.507 |
| Sb 206.834 | -2.0573u | -1.7630u | 5.5933 |
| Se 196.026 | 3.8093 | -0.7497 | 0.5226 |
| Sn 189.925 | 8.7932 | 10.1302 | 7.1819 |
| Sr 216.596 | 54.2092 | 52.9487 | 51.7471 |
| Ti 334.941 | 130.870 | 128.608 | 126.387 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 0.4855u | 3.1556u | -0.1628u |
| V 292.401 | 64.7785 | 62.9719 | 62.2878 |
| Zn 206.200 | 237.050 | 228.976 | 228.744 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.3768 | ppb | 0.2562 | 68.0 | -38.4355 |
| Al 308.215 | 12675.8 | ppb | 233.292 | 1.8 | 86861.6 |
| As 188.980 | 25.0112 | ppb | 4.9685 | 19.9 | 9.9153 |
| B 249.678 | 4.5020 | ppb | 0.0484 | 1.1 | 2.4000 |
| Ba 389.178 | 387.194 | ppb | 6.1484 | 1.6 | 8511.99 |
| Be 313.042 | 1.9210 | ppb | 0.0413 | 2.1 | 3205.36 |
| Ca 370.602 | 9858 | ppb | 179.3 | 1.8 | 26612 |
| Cd 226.502 | -0.0901 | ppb | 0.1172 | 130.0 | 193.438 |
| Co 228.615 | 22.8295 | ppb | 0.7016 | 3.1 | 274.370 |
| Cr 267.716 | 44.9411 | ppb | 0.9881 | 2.2 | 2530.35 |
| Cu 324.754 | 25.6160 | ppb | 0.6513 | 2.5 | 2161.55 |
| Fe 271.441 | 48013.0 | ppb | 907.554 | 1.9 | 76129.8 |
| K 766.491 | 817.125 | ppb | 13.3740 | 1.6 | 36849.9 |
| Mg 279.078 | 920.159 | ppb | 14.7887 | 1.6 | 2430.27 |
| Mn 257.610 | 4392.11 | ppb | 83.9098 | 1.9 | 818103 |
| Mo 202.032 | 3.0041 | ppb | 0.1720 | 5.7 | 23.7798 |
| Na 330.237 | 65.3993 | ppb | 52.6885 | 80.6 | 11.4263 |
| Ni 231.604 | 11.5470 | ppb | 0.5938 | 5.1 | 35.2972 |
| Pb 220.353 | 126.503 | ppb | 4.1269 | 3.3 | 216.847 |
| Sb 206.834 | 0.5910 | ppb | 4.3346 | 733.5 | 0.3993 |
| Se 196.026 | 1.1940 | ppb | 2.3525 | 197.0 | 2.0134 |
| Sn 189.925 | 8.7018 | ppb | 1.4763 | 17.0 | 1.9619 |
| Sr 216.596 | 52.9683 | ppb | 1.2311 | 2.3 | 727.445 |
| Ti 334.941 | 128.622 | ppb | 2.2412 | 1.7 | 37966.7 |
| Tl 190.794 | 1.1594 | ppb | 1.7588 | 151.7 | -11.1270 |
| V 292.401 | 63.3461 | ppb | 1.2868 | 2.0 | 1613.06 |
| Zn 206.200 | 231.590 | ppb | 4.7298 | 2.0 | 252.703 |

**680-106200-b-34-a^10 (Samp)** **10/20/2014, 4:30:02 PM** **Rack 1, Tube 10**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.8859u | -1.0054u | -0.7562u |
| Al 308.215 | 15682.3 | 15357.2 | 15030.3 |
| As 188.980 | 19.0756 | 17.4266 | 14.7341 |
| B 249.678 | 1.7694u | 1.6893u | 1.8723u |
| Ba 389.178 | 1000.96 | 981.750 | 959.025 |
| Be 313.042 | 2.5942 | 2.5401 | 2.4825 |
| Ca 370.602 | 3396 | 3318 | 3253 |
| Cd 226.502 | -0.5779 | -0.6850 | -0.8701 |
| Co 228.615 | 35.7449 | 35.0622 | 34.4254 |
| Cr 267.716 | 46.2470 | 45.2057 | 44.3957 |
| Cu 324.754 | 9.7040 | 9.8059 | 9.5619 |
| Fe 271.441 | 48464.4 | 47450.9 | 46531.7 |
| K 766.491 | 572.207 | 561.438 | 551.516 |
| Mg 279.078 | 742.566 | 730.172 | 717.488 |
| Mn 257.610 | 9866.61 | 9630.87 | 9442.48 |
| Mo 202.032 | 2.8359 | 2.6058 | 2.7396 |
| Na 330.237 | 16.0442u | -228.743u | 200.822u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 11.9510 | 12.5693 | 11.6279 |
| Pb 220.353 | 47.7693 | 42.7349 | 44.8139 |
| Sb 206.834 | -0.1415 | -0.7501 | -4.0971u |
| Se 196.026 | -0.6717 | -0.5614 | -6.9482u |
| Sn 189.925 | -1.1330u | 3.4145 | 5.0037 |
| Sr 216.596 | 29.1655 | 27.8749 | 27.3830 |
| Ti 334.941 | 74.7308 | 73.2048 | 71.6394 |
| Tl 190.794 | 3.8305 | 2.2391 | 2.1771 |
| V 292.401 | 66.3469 | 63.9343 | 63.1173 |
| Zn 206.200 | 39.6215 | 39.6926 | 37.4708 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.8825 | ppb | 0.1247 | 14.1 | -53.0750 |
| Al 308.215 | 15356.6 | ppb | 326.021 | 2.1 | 105108 |
| As 188.980 | 17.0788 | ppb | 2.1916 | 12.8 | 4.5968 |
| B 249.678 | 1.7770 | ppb | 0.0917 | 5.2 | -42.1530 |
| Ba 389.178 | 980.579 | ppb | 20.9925 | 2.1 | 21618.0 |
| Be 313.042 | 2.5389 | ppb | 0.0558 | 2.2 | 4321.26 |
| Ca 370.602 | 3322 | ppb | 71.34 | 2.1 | 8831 |
| Cd 226.502 | -0.7110 | ppb | 0.1478 | 20.8 | 164.845 |
| Co 228.615 | 35.0775 | ppb | 0.6599 | 1.9 | 414.750 |
| Cr 267.716 | 45.2828 | ppb | 0.9280 | 2.0 | 2574.51 |
| Cu 324.754 | 9.6906 | ppb | 0.1225 | 1.3 | 982.013 |
| Fe 271.441 | 47482.3 | ppb | 966.735 | 2.0 | 75290.1 |
| K 766.491 | 561.720 | ppb | 10.3483 | 1.8 | 25393.7 |
| Mg 279.078 | 730.075 | ppb | 12.5392 | 1.7 | 1803.43 |
| Mn 257.610 | 9646.65 | ppb | 212.502 | 2.2 | 1796653 |
| Mo 202.032 | 2.7271 | ppb | 0.1156 | 4.2 | 21.9043 |
| Na 330.237 | -3.9591 | ppb | 215.480 | 5442.7 | 13.0995 |
| Ni 231.604 | 12.0494 | ppb | 0.4783 | 4.0 | 36.7937 |
| Pb 220.353 | 45.1060 | ppb | 2.5299 | 5.6 | 88.4492 |
| Sb 206.834 | -1.6629 | ppb | 2.1299 | 128.1 | -2.8349 |
| Se 196.026 | -2.7271 | ppb | 3.6560 | 134.1 | 1.4059 |
| Sn 189.925 | 2.4284 | ppb | 3.1850 | 131.2 | -2.8102 |
| Sr 216.596 | 28.1411 | ppb | 0.9206 | 3.3 | 415.171 |
| Ti 334.941 | 73.1917 | ppb | 1.5457 | 2.1 | 21588.0 |
| Tl 190.794 | 2.7489 | ppb | 0.9372 | 34.1 | -6.5706 |
| V 292.401 | 64.4661 | ppb | 1.6792 | 2.6 | 1640.56 |
| Zn 206.200 | 38.9283 | ppb | 1.2627 | 3.2 | 41.3690 |

**680-106200-b-20-a^10 (Samp)** **10/20/2014, 4:34:20 PM** **Rack 1, Tube 11**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -1.1570u | -0.8463u | -1.2554u |
| Al 308.215 | 21317.6 | 20917.2 | 20347.5 |
| As 188.980 | 21.8704 | 18.6332 | 23.4518 |
| B 249.678 | 10.2376 | 9.7207 | 9.9914 |
| Ba 389.178 | 745.438 | 732.939 | 713.048 |
| Be 313.042 | 2.2744 | 2.2340 | 2.1682 |
| Ca 370.602 | 27578 | 27137 | 26361 |
| Cd 226.502 | -0.6153 | -0.6016 | -0.7389 |
| Co 228.615 | 59.7127 | 58.2690 | 56.9678 |
| Cr 267.716 | 35.9943 | 35.5665 | 34.6580 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 11.2460 | 11.0621 | 10.9340 |
| Fe 271.441 | 51062.8 | 50424.4 | 49124.6 |
| K 766.491 | 1618.30 | 1587.21 | 1550.03 |
| Mg 279.078 | 4061.05 | 3991.16 | 3895.99 |
| Mn 257.610 | 6503.06 | 6386.15 | 6205.48 |
| Mo 202.032 | 2.6512 | 2.5922 | 1.8102 |
| Na 330.237 | 22.3868u | 174.698u | -0.5953u |
| Ni 231.604 | 11.4989 | 10.5310 | 10.7769 |
| Pb 220.353 | 86.6533 | 84.4768 | 81.7614 |
| Sb 206.834 | -2.2954u | -2.9327u | -2.7457u |
| Se 196.026 | -1.4841 | -2.5701 | 0.7085 |
| Sn 189.925 | 3.6418 | 4.0114 | 2.5264 |
| Sr 216.596 | 56.2838 | 54.6260 | 52.9276 |
| Ti 334.941 | 229.768 | 225.995 | 219.967 |
| Tl 190.794 | 0.3829u | 0.7989u | -0.0985u |
| V 292.401 | 68.7263 | 67.9209 | 66.3093 |
| Zn 206.200 | 44.5038 | 42.3585 | 41.0352 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -1.0863 | ppb | 0.2135 | 19.7 | -88.7128 |
| Al 308.215 | 20860.8 | ppb | 487.476 | 2.3 | 142579 |
| As 188.980 | 21.3184 | ppb | 2.4562 | 11.5 | 7.4971 |
| B 249.678 | 9.9833 | ppb | 0.2585 | 2.6 | 89.2612 |
| Ba 389.178 | 730.475 | ppb | 16.3352 | 2.2 | 16099.7 |
| Be 313.042 | 2.2255 | ppb | 0.0536 | 2.4 | 3763.09 |
| Ca 370.602 | 27026 | ppb | 616.2 | 2.3 | 73672 |
| Cd 226.502 | -0.6519 | ppb | 0.0756 | 11.6 | 177.549 |
| Co 228.615 | 58.3165 | ppb | 1.3731 | 2.4 | 686.763 |
| Cr 267.716 | 35.4063 | ppb | 0.6824 | 1.9 | 2021.21 |
| Cu 324.754 | 11.0807 | ppb | 0.1568 | 1.4 | 1086.06 |
| Fe 271.441 | 50203.9 | ppb | 987.750 | 2.0 | 79607.7 |
| K 766.491 | 1585.18 | ppb | 34.1818 | 2.2 | 71300.7 |
| Mg 279.078 | 3982.74 | ppb | 82.8552 | 2.1 | 10715.1 |
| Mn 257.610 | 6364.90 | ppb | 149.927 | 2.4 | 1185521 |
| Mo 202.032 | 2.3512 | ppb | 0.4694 | 20.0 | 19.1987 |
| Na 330.237 | 65.4967 | ppb | 95.2671 | 145.5 | 15.3723 |
| Ni 231.604 | 10.9356 | ppb | 0.5031 | 4.6 | 33.4888 |
| Pb 220.353 | 84.2971 | ppb | 2.4509 | 2.9 | 150.101 |
| Sb 206.834 | -2.6579 | ppb | 0.3276 | 12.3 | -4.2888 |
| Se 196.026 | -1.1152 | ppb | 1.6702 | 149.8 | 1.4272 |
| Sn 189.925 | 3.3932 | ppb | 0.7731 | 22.8 | -2.0763 |
| Sr 216.596 | 54.6125 | ppb | 1.6781 | 3.1 | 757.287 |
| Ti 334.941 | 225.243 | ppb | 4.9436 | 2.2 | 66522.6 |
| Tl 190.794 | 0.3611 | ppb | 0.4491 | 124.4 | -11.1652 |
| V 292.401 | 67.6522 | ppb | 1.2307 | 1.8 | 1725.17 |
| Zn 206.200 | 42.6325 | ppb | 1.7504 | 4.1 | 45.3397 |

**mb 680-353952/1-a (Samp)** **10/20/2014, 4:38:37 PM** **Rack 1, Tube 12**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0138 | 0.0150 | 0.1386 |
| Al 308.215 | 3.4539 | 5.2133 | 3.6305 |
| As 188.980 | 0.6065 | -0.7090u | -2.7175u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 1.0268 | 1.1243 | 1.0822 |
| Ba 389.178 | 0.8424 | 0.0874 | -0.0138u |
| Be 313.042 | 0.0049 | 0.0007 | 0.0019 |
| Ca 370.602 | 6.172 | 5.340 | 1.516 |
| Cd 226.502 | -0.0853u | -0.0908u | -0.0570u |
| Co 228.615 | 0.1685 | 0.3926 | 0.4254 |
| Cr 267.716 | -0.0425u | -0.0001 | -0.2006u |
| Cu 324.754 | -0.0976u | 0.2024 | -0.3311u |
| Fe 271.441 | 8.4712 | 12.2848 | 12.5811 |
| K 766.491 | 0.9063 | 0.7041 | 0.2402 |
| Mg 279.078 | 1.7285 | -0.3241u | 0.3453 |
| Mn 257.610 | 0.8448 | 0.8263 | 0.8264 |
| Mo 202.032 | 0.3311 | 0.4777 | -0.1677u |
| Na 330.237 | 76.7122 | 137.231 | -2.7659u |
| Ni 231.604 | -1.9966u | -1.0381u | -0.3042u |
| Pb 220.353 | 0.4116 | 0.8487 | 0.0272 |
| Sb 206.834 | -1.1802u | 0.8399 | 1.7026 |
| Se 196.026 | -2.5335u | 1.0095 | 1.1588 |
| Sn 189.925 | -2.4882u | -2.9443u | 3.5371 |
| Sr 216.596 | 0.1627 | -0.4270u | 0.3214 |
| Ti 334.941 | 0.0940 | 0.0621 | 0.0834 |
| Tl 190.794 | 0.5758 | -0.0874u | -0.1008u |
| V 292.401 | -0.0361u | 0.0464 | -0.2368u |
| Zn 206.200 | 0.1959 | -0.3730u | -0.4093u |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0558 | ppb | 0.0717 | 128.5 | -14.3742 |
| Al 308.215 | 4.0993 | ppb | 0.9688 | 23.6 | 519.488 |
| As 188.980 | -0.9400 | ppb | 1.6740 | 178.1 | -7.4041 |
| B 249.678 | 1.0778 | ppb | 0.0489 | 4.5 | 56.6445 |
| Ba 389.178 | 0.3054 | ppb | 0.4678 | 153.2 | -61.0154 |
| Be 313.042 | 0.0025 | ppb | 0.0022 | 88.7 | -274.212 |
| Ca 370.602 | 4.343 | ppb | 2.483 | 57.2 | 32.57 |
| Cd 226.502 | -0.0777 | ppb | 0.0182 | 23.4 | 13.3546 |
| Co 228.615 | 0.3288 | ppb | 0.1398 | 42.5 | 8.2565 |
| Cr 267.716 | -0.0811 | ppb | 0.1057 | 130.3 | 30.1477 |
| Cu 324.754 | -0.0754 | ppb | 0.2675 | 354.7 | 238.983 |
| Fe 271.441 | 11.1124 | ppb | 2.2921 | 20.6 | 26.5658 |
| K 766.491 | 0.6169 | ppb | 0.3415 | 55.4 | 225.576 |
| Mg 279.078 | 0.5832 | ppb | 1.0468 | 179.5 | 23.8156 |
| Mn 257.610 | 0.8325 | ppb | 0.0107 | 1.3 | 186.924 |
| Mo 202.032 | 0.2137 | ppb | 0.3383 | 158.3 | 7.0000 |
| Na 330.237 | 70.3924 | ppb | 70.2120 | 99.7 | 28.7277 |
| Ni 231.604 | -1.1130 | ppb | 0.8487 | 76.3 | -8.3331 |
| Pb 220.353 | 0.4292 | ppb | 0.4110 | 95.8 | 12.4518 |
| Sb 206.834 | 0.4541 | ppb | 1.4796 | 325.8 | -1.8413 |
| Se 196.026 | -0.1217 | ppb | 2.0900 | 1717.0 | -0.2723 |
| Sn 189.925 | -0.6318 | ppb | 3.6176 | 572.6 | -5.1379 |
| Sr 216.596 | 0.0190 | ppb | 0.3943 | 2076.0 | 5.8360 |
| Ti 334.941 | 0.0799 | ppb | 0.0163 | 20.3 | -22.7598 |
| Tl 190.794 | 0.1292 | ppb | 0.3868 | 299.4 | -8.1624 |
| V 292.401 | -0.0755 | ppb | 0.1456 | 192.9 | -15.3883 |
| Zn 206.200 | -0.1955 | ppb | 0.3394 | 173.6 | 0.7988 |

**Cont Calib Verif (CCV)** **10/20/2014, 4:42:54 PM** **Rack 1, Tube 13**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 498.573 | 505.111 | 503.982 |
| Al 308.215 | 4831.79 | 4829.50 | 4828.00 |
| As 188.980 | 475.907 | 483.183 | 483.455 |
| B 249.678 | 486.592 | 489.994 | 492.619 |
| Ba 389.178 | 4962.95 | 4955.71 | 4965.30 |
| Be 313.042 | 495.921 | 496.820 | 497.990 |
| Ca 370.602 | 4982 | 4986 | 5004 |
| Cd 226.502 | 499.452 | 499.452 | 499.827 |
| Co 228.615 | 502.853 | 502.133 | 503.716 |
| Cr 267.716 | 4993.26 | 4994.65 | 5004.72 |
| Cu 324.754 | 5051.67 | 4999.03 | 5019.49 |
| Fe 271.441 | 4905.19 | 4910.66 | 4921.18 |
| K 766.491 | 10135.1 | 10163.1 | 10164.7 |
| Mg 279.078 | 4900.61 | 4901.92 | 4910.46 |
| Mn 257.610 | 5095.91 | 5080.82 | 5095.88 |
| Mo 202.032 | 495.341 | 495.323 | 495.451 |
| Na 330.237 | 7335.13 | 7469.66 | 7534.11 |
| Ni 231.604 | 2529.14 | 2530.93 | 2523.87 |
| Pb 220.353 | 502.805 | 505.189 | 501.004 |
| Sb 206.834 | 960.749 | 962.572 | 961.998 |
| Se 196.026 | 4928.65 | 4936.98 | 4973.76 |
| Sn 189.925 | 4945.84 | 4964.02 | 4964.28 |
| Sr 216.596 | 2473.09 | 2475.96 | 2492.45 |
| Ti 334.941 | 490.049 | 489.799 | 490.871 |
| Tl 190.794 | 5064.24 | 5051.25 | 5057.40 |
| V 292.401 | 4935.06 | 4942.36 | 4949.50 |
| Zn 206.200 | 2499.68 | 2486.40 | 2485.00 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 502.555 | ppb | 3.4945 | 0.7 | 42429.0 | 100.51109 |
| Al 308.215 | 4829.76 | ppb | 1.9074 | 0.0 | 33896.9 | 96.59519 |
| As 188.980 | 480.848 | ppb | 4.2816 | 0.9 | 317.447 | 96.16964 |
| B 249.678 | 489.735 | ppb | 3.0215 | 0.6 | 8258.53 | 97.94698 |
| Ba 389.178 | 4961.32 | ppb | 4.9977 | 0.1 | 109539 | 99.22638 |
| Be 313.042 | 496.910 | ppb | 1.0372 | 0.2 | 899946 | 99.38206 |
| Ca 370.602 | 4991 | ppb | 11.62 | 0.2 | 13997 | 99.81686 |
| Cd 226.502 | 499.577 | ppb | 0.2163 | 0.0 | 21504.8 | 99.91539 |
| Co 228.615 | 502.901 | ppb | 0.7926 | 0.2 | 5822.39 | 100.58012 |
| Cr 267.716 | 4997.54 | ppb | 6.2527 | 0.1 | 272635 | 99.95086 |
| Cu 324.754 | 5023.40 | ppb | 26.5346 | 0.5 | 372178 | 100.46792 |
| Fe 271.441 | 4912.34 | ppb | 8.1258 | 0.2 | 7908.52 | 98.24686 |
| K 766.491 | 10154.3 | ppb | 16.6348 | 0.2 | 455668 | 101.54327 |
| Mg 279.078 | 4904.33 | ppb | 5.3517 | 0.1 | 13253.5 | 98.08658 |
| Mn 257.610 | 5090.87 | ppb | 8.7026 | 0.2 | 948149 | 101.81742 |
| Mo 202.032 | 495.372 | ppb | 0.0691 | 0.0 | 3393.37 | 99.07435 |
| Na 330.237 | 7446.30 | ppb | 101.522 | 1.4 | 314.341 | 99.28400 |
| Ni 231.604 | 2527.98 | ppb | 3.6707 | 0.1 | 7892.17 | 101.11918 |
| Pb 220.353 | 502.999 | ppb | 2.0994 | 0.4 | 815.985 | 100.59987 |
| Sb 206.834 | 961.773 | ppb | 0.9322 | 0.1 | 1428.89 | 96.17730 |
| Se 196.026 | 4946.46 | ppb | 24.0047 | 0.5 | 2308.95 | 98.92929 |
| Sn 189.925 | 4958.05 | ppb | 10.5718 | 0.2 | 3766.85 | 99.16091 |
| Sr 216.596 | 2480.50 | ppb | 10.4459 | 0.4 | 30826.2 | 99.21994 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ti 334.941 | 490.240 | ppb | 0.5611 | 0.1 | 144819 | 98.04795 |
| Tl 190.794 | 5057.63 | ppb | 6.4972 | 0.1 | 5561.45 | 101.15254 |
| V 292.401 | 4942.31 | ppb | 7.2223 | 0.1 | 125340 | 98.84615 |
| Zn 206.200 | 2490.36 | ppb | 8.1017 | 0.3 | 2717.15 | 99.61435 |

**Cont Calib Blank (CCB)** **10/20/2014, 4:47:08 PM** **Rack 1, Tube 14**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1431 | 0.0605 | 0.2411 |
| Al 308.215 | 2.6201 | 3.4702 | 3.3542 |
| As 188.980 | 3.3876 | -3.3957u | -1.1623u |
| B 249.678 | 8.2290 | 6.9694 | 5.9525 |
| Ba 389.178 | 0.0796 | 0.4188 | 0.3681 |
| Be 313.042 | 0.0412 | 0.0375 | 0.0615 |
| Ca 370.602 | 3.430 | 1.953 | 7.163 |
| Cd 226.502 | 0.0612 | 0.0470 | 0.1050 |
| Co 228.615 | 0.6408 | -0.2496u | 0.0864 |
| Cr 267.716 | 0.3339 | 0.4944 | 0.8428 |
| Cu 324.754 | 0.3648 | 0.3485 | 0.5363 |
| Fe 271.441 | 5.4288 | 10.1487 | 6.7397 |
| K 766.491 | 2.2880 | 1.9754 | 1.9079 |
| Mg 279.078 | 0.2859 | 0.7345 | 1.7906 |
| Mn 257.610 | 0.6294 | 0.7031 | 1.0077 |
| Mo 202.032 | 0.1601 | 0.1659 | 0.1442 |
| Na 330.237 | 182.934 | 99.7688 | 62.1249 |
| Ni 231.604 | 0.2935 | 0.6247 | 0.0539 |
| Pb 220.353 | 0.1900 | -0.0050u | -2.0872u |
| Sb 206.834 | 2.2504 | 2.5811 | 0.5578 |
| Se 196.026 | 1.7546 | 1.9970 | 5.6998 |
| Sn 189.925 | -2.4162u | -2.5884u | 0.0464 |
| Sr 216.596 | 0.8594 | 0.0005u | 0.1570 |
| Ti 334.941 | 0.1473 | 0.1585 | 0.2104 |
| Tl 190.794 | 1.0947 | 0.0752 | 2.5621 |
| V 292.401 | 0.3614 | 0.2736 | 0.6075 |
| Zn 206.200 | 0.8320 | 0.3400 | 0.5660 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.1482 | ppb | 0.0904 | 61.0 | -6.5690 | 0.14823 |
| Al 308.215 | 3.1482 | ppb | 0.4610 | 14.6 | 513.050 | 3.14817 |
| As 188.980 | -0.3902 | ppb | 3.4569 | 886.0 | -7.0332 | -0.39015 |
| B 249.678 | 7.0503 | ppb | 1.1404 | 16.2 | 156.839 | 7.05031 |
| Ba 389.178 | 0.2888 | ppb | 0.1829 | 63.3 | -61.3825 | 0.28884 |
| Be 313.042 | 0.0468 | ppb | 0.0129 | 27.6 | -193.972 | 0.04676 |
| Ca 370.602 | 4.182 | ppb | 2.685 | 64.2 | 32.20 | 4.18192 |
| Cd 226.502 | 0.0711 | ppb | 0.0302 | 42.5 | 19.7385 | 0.07106 |
| Co 228.615 | 0.1592 | ppb | 0.4497 | 282.5 | 6.3034 | 0.15919 |
| Cr 267.716 | 0.5570 | ppb | 0.2602 | 46.7 | 64.9512 | 0.55704 |
| Cu 324.754 | 0.4165 | ppb | 0.1040 | 25.0 | 275.398 | 0.41651 |
| Fe 271.441 | 7.4390 | ppb | 2.4364 | 32.8 | 20.7472 | 7.43905 |
| K 766.491 | 2.0571 | ppb | 0.2028 | 9.9 | 290.177 | 2.05712 |
| Mg 279.078 | 0.9370 | ppb | 0.7725 | 82.4 | 24.7789 | 0.93698 |
| Mn 257.610 | 0.7801 | ppb | 0.2005 | 25.7 | 177.151 | 0.78007 |
| Mo 202.032 | 0.1567 | ppb | 0.0113 | 7.2 | 6.6093 | 0.15674 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Na 330.237 | 114.943 | ppb | 61.8175 | 53.8 | 30.8333 | 114.94259 |
| Ni 231.604 | 0.3240 | ppb | 0.2867 | 88.5 | -3.8438 | 0.32402 |
| Pb 220.353 | -0.6341 | ppb | 1.2622 | 199.1 | 10.7615 | -0.63410 |
| Sb 206.834 | 1.7964 | ppb | 1.0854 | 60.4 | 0.0953 | 1.79645 |
| Se 196.026 | 3.1505 | ppb | 2.2111 | 70.2 | 1.2544 | 3.15048 |
| Sn 189.925 | -1.6528 | ppb | 1.4740 | 89.2 | -5.9145 | -1.65276 |
| Sr 216.596 | 0.3389 | ppb | 0.4574 | 135.0 | 9.7816 | 0.33894 |
| Ti 334.941 | 0.1721 | ppb | 0.0336 | 19.5 | 4.4852 | 0.17208 |
| Tl 190.794 | 1.2440 | ppb | 1.2502 | 100.5 | -6.9355 | 1.24400 |
| V 292.401 | 0.4142 | ppb | 0.1731 | 41.8 | -2.9496 | 0.41416 |
| Zn 206.200 | 0.5794 | ppb | 0.2463 | 42.5 | 1.6468 | 0.57936 |

**lcs 680-353952/2-a (Samp)** **10/20/2014, 4:56:00 PM** **Rack 1, Tube 15**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 50.7689 | 50.6169 | 51.0470 |
| Al 308.215 | 4785.12 | 4784.53 | 4784.35 |
| As 188.980 | 96.9659 | 105.490 | 102.031 |
| B 249.678 | 193.824 | 194.937 | 195.276 |
| Ba 389.178 | 99.9525 | 99.7230 | 100.335 |
| Be 313.042 | 50.5587 | 50.5653 | 50.5838 |
| Ca 370.602 | 4923 | 4919 | 4909 |
| Cd 226.502 | 50.2776 | 49.9597 | 50.3014 |
| Co 228.615 | 49.4183 | 50.2084 | 50.2773 |
| Cr 267.716 | 102.155 | 102.515 | 102.388 |
| Cu 324.754 | 102.472 | 100.084 | 100.529 |
| Fe 271.441 | 4961.34 | 4955.80 | 4962.07 |
| K 766.491 | 4951.78 | 4954.92 | 4953.91 |
| Mg 279.078 | 4781.02 | 4788.47 | 4780.78 |
| Mn 257.610 | 519.499 | 518.206 | 518.326 |
| Mo 202.032 | 99.2605 | 99.7159 | 98.0785 |
| Na 330.237 | 4757.03 | 4651.79 | 4804.71 |
| Ni 231.604 | 100.615 | 99.1240 | 100.304 |
| Pb 220.353 | 496.680 | 496.367 | 498.640 |
| Sb 206.834 | 51.8244 | 50.9935 | 49.8693 |
| Se 196.026 | 101.848 | 94.4695 | 93.3844 |
| Sn 189.925 | 190.492 | 194.539 | 191.839 |
| Sr 216.596 | 98.1030 | 99.0815 | 98.7174 |
| Ti 334.941 | 100.729 | 100.278 | 100.335 |
| Tl 190.794 | 38.3916 | 39.5037 | 39.7439 |
| V 292.401 | 100.076 | 99.9305 | 99.7588 |
| Zn 206.200 | 101.822 | 100.014 | 101.699 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 50.8109 | ppb | 0.2181 | 0.4 | 4276.00 |
| Al 308.215 | 4784.67 | ppb | 0.3993 | 0.0 | 33083.7 |
| As 188.980 | 101.496 | ppb | 4.2872 | 4.2 | 61.6797 |
| B 249.678 | 194.679 | ppb | 0.7596 | 0.4 | 3294.16 |
| Ba 389.178 | 100.003 | ppb | 0.3090 | 0.3 | 2151.11 |
| Be 313.042 | 50.5693 | ppb | 0.0130 | 0.0 | 91306.8 |
| Ca 370.602 | 4917 | ppb | 7.153 | 0.1 | 13480 |
| Cd 226.502 | 50.1796 | ppb | 0.1908 | 0.4 | 2191.86 |
| Co 228.615 | 49.9680 | ppb | 0.4773 | 1.0 | 581.839 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 102.353 | ppb | 0.1827 | 0.2 | 5621.87 |
| Cu 324.754 | 101.028 | ppb | 1.2697 | 1.3 | 7730.48 |
| Fe 271.441 | 4959.74 | ppb | 3.4272 | 0.1 | 7879.11 |
| K 766.491 | 4953.54 | ppb | 1.6029 | 0.0 | 222388 |
| Mg 279.078 | 4783.42 | ppb | 4.3726 | 0.1 | 13018.4 |
| Mn 257.610 | 518.677 | ppb | 0.7143 | 0.1 | 96669.3 |
| Mo 202.032 | 99.0182 | ppb | 0.8451 | 0.9 | 683.502 |
| Na 330.237 | 4737.84 | ppb | 78.2473 | 1.7 | 245.328 |
| Ni 231.604 | 100.014 | ppb | 0.7866 | 0.8 | 307.910 |
| Pb 220.353 | 497.229 | ppb | 1.2322 | 0.2 | 802.731 |
| Sb 206.834 | 50.8957 | ppb | 0.9812 | 1.9 | 70.2695 |
| Se 196.026 | 96.5674 | ppb | 4.6054 | 4.8 | 45.0302 |
| Sn 189.925 | 192.290 | ppb | 2.0610 | 1.1 | 141.616 |
| Sr 216.596 | 98.6340 | ppb | 0.4945 | 0.5 | 1237.83 |
| Ti 334.941 | 100.447 | ppb | 0.2453 | 0.2 | 29642.9 |
| Tl 190.794 | 39.2131 | ppb | 0.7215 | 1.8 | 34.3769 |
| V 292.401 | 99.9219 | ppb | 0.1589 | 0.2 | 2509.88 |
| Zn 206.200 | 101.179 | ppb | 1.0102 | 1.0 | 111.456 |

**480-69175-c-1-a (Samp)** **10/20/2014, 5:00:16 PM** **Rack 1, Tube 16**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0499u | -0.1187u | 0.0392u |
| Al 308.215 | 18.8146 | 18.3454 | 20.0528 |
| As 188.980 | 2.3407 | -2.9545u | 5.8713 |
| B 249.678 | 977.024 | 982.836 | 985.761 |
| Ba 389.178 | 58.1053 | 57.2701 | 56.8959 |
| Be 313.042 | -0.0568u | -0.0531u | -0.0544u |
| Ca 370.602 | 217093 | 218185 | 217231 |
| Cd 226.502 | 0.1594 | 0.2163 | -0.0014 |
| Co 228.615 | 0.7957 | 1.2642 | 1.7869 |
| Cr 267.716 | 0.8113 | 0.9460 | 0.8454 |
| Cu 324.754 | 2.3101 | 2.3469 | 2.3338 |
| Fe 271.441 | 1834.30 | 1842.05 | 1843.07 |
| K 766.491 | 3163.73 | 3180.48 | 3185.70 |
| Mg 279.078 | 6432.09 | 6428.92 | 6440.19 |
| Mn 257.610 | 105.440 | 105.745 | 105.543 |
| Mo 202.032 | 14.4511 | 14.0470 | 13.6288 |
| Na 330.237 | 108383x | 108934x | 108858x |
| Ni 231.604 | 1.6949 | 2.5670 | 2.7061 |
| Pb 220.353 | -1.9758u | 0.1095 | 4.3590 |
| Sb 206.834 | -0.4299u | -0.9623u | 2.1603 |
| Se 196.026 | 8.3174 | 0.4080 | 1.1569 |
| Sn 189.925 | -1.9704u | -1.1373u | -5.1767u |
| Sr 216.596 | 300.027 | 300.670 | 300.225 |
| Ti 334.941 | 1.1430 | 1.1228 | 1.1361 |
| Tl 190.794 | -2.6491u | -0.1276u | -2.6917u |
| V 292.401 | 0.3874 | 0.1383 | 0.2206 |
| Zn 206.200 | 15.0061 | 15.5121 | 12.2207 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0099b | ppb | 0.0944 | 953.3 | -30.7528 |
| Al 308.215 | 19.0709b | ppb | 0.8821 | 4.6 | 625.403 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 1.7525b | ppb | 4.4422 | 253.5 | -5.6039 |
| B 249.678 | 981.874b | ppb | 4.4475 | 0.5 | 16508.6 |
| Ba 389.178 | 57.4238b | ppb | 0.6192 | 1.1 | 1210.61 |
| Be 313.042 | -0.0547b | ppb | 0.0019 | 3.4 | -316.900 |
| Ca 370.602 | 217503b | ppb | 594.3 | 0.3 | 595412 |
| Cd 226.502 | 0.1248b | ppb | 0.1129 | 90.5 | 28.3268 |
| Co 228.615 | 1.2823b | ppb | 0.4958 | 38.7 | 19.0458 |
| Cr 267.716 | 0.8676b | ppb | 0.0700 | 8.1 | 85.4938 |
| Cu 324.754 | 2.3303b | ppb | 0.0187 | 0.8 | 418.478 |
| Fe 271.441 | 1839.80b | ppb | 4.7971 | 0.3 | 2925.83 |
| K 766.491 | 3176.64b | ppb | 11.4778 | 0.4 | 142685 |
| Mg 279.078 | 6433.73b | ppb | 5.8118 | 0.1 | 17516.8 |
| Mn 257.610 | 105.576b | ppb | 0.1554 | 0.1 | 19742.5 |
| Mo 202.032 | 14.0423b | ppb | 0.4112 | 2.9 | 101.644 |
| Na 330.237 | 108725xb | ppb | 298.829 | 0.3 | 5159.51 |
| Ni 231.604 | 2.3227b | ppb | 0.5481 | 23.6 | 2.5554 |
| Pb 220.353 | 0.8309b | ppb | 3.2284 | 388.6 | 13.2161 |
| Sb 206.834 | 0.2560b | ppb | 1.6705 | 652.4 | -2.3010 |
| Se 196.026 | 3.2941b | ppb | 4.3664 | 132.6 | 1.3712 |
| Sn 189.925 | -2.7615b | ppb | 2.1328 | 77.2 | -6.7226 |
| Sr 216.596 | 300.307b | ppb | 0.3292 | 0.1 | 3833.40 |
| Ti 334.941 | 1.1339b | ppb | 0.0103 | 0.9 | 291.547 |
| Tl 190.794 | -1.8228b | ppb | 1.4682 | 80.5 | -10.5446 |
| V 292.401 | 0.2488b | ppb | 0.1269 | 51.0 | -9.4160 |
| Zn 206.200 | 14.2463b | ppb | 1.7723 | 12.4 | 16.5536 |

**480-69175-c-1-b ms (Samp)** **10/20/2014, 5:04:31 PM** **Rack 1, Tube 17**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 52.9167 | 52.9081 | 53.0439 |
| Al 308.215 | 5081.19 | 5072.37 | 5070.47 |
| As 188.980 | 103.421 | 103.951 | 107.433 |
| B 249.678 | 1216.05 | 1218.64 | 1217.57 |
| Ba 389.178 | 156.051 | 157.161 | 155.881 |
| Be 313.042 | 49.7779 | 49.8727 | 49.8335 |
| Ca 370.602 | 229735 | 229598 | 229476 |
| Cd 226.502 | 48.9217 | 48.7162 | 48.8081 |
| Co 228.615 | 49.4647 | 50.3827 | 50.2588 |
| Cr 267.716 | 99.9812 | 99.4611 | 99.6204 |
| Cu 324.754 | 106.732 | 105.772 | 105.787 |
| Fe 271.441 | 6708.18 | 6715.55 | 6699.56 |
| K 766.491 | 9582.12 | 9565.22 | 9528.16 |
| Mg 279.078 | 11427.8 | 11427.5 | 11401.7 |
| Mn 257.610 | 613.161 | 613.433 | 612.560 |
| Mo 202.032 | 110.832 | 111.094 | 111.794 |
| Na 330.237 | 119173x | 118498x | 118406x |
| Ni 231.604 | 100.109 | 98.0834 | 99.6069 |
| Pb 220.353 | 484.714 | 480.516 | 477.066 |
| Sb 206.834 | 50.8954 | 54.6703 | 55.2172 |
| Se 196.026 | 93.5452 | 102.374 | 107.125 |
| Sn 189.925 | 186.168 | 185.019 | 190.541 |
| Sr 216.596 | 405.257 | 405.682 | 406.106 |
| Ti 334.941 | 100.119 | 100.158 | 100.097 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 35.5440 | 33.1461 | 37.4921 |
| V 292.401 | 99.0474 | 99.1293 | 98.5991 |
| Zn 206.200 | 110.796 | 109.636 | 110.576 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 52.9562b | ppb | 0.0760 | 0.1 | 4446.30 |
| Al 308.215 | 5074.68b | ppb | 5.7192 | 0.1 | 35061.4 |
| As 188.980 | 104.935b | ppb | 2.1791 | 2.1 | 63.9879 |
| B 249.678 | 1217.42b | ppb | 1.3028 | 0.1 | 20450.2 |
| Ba 389.178 | 156.364b | ppb | 0.6952 | 0.4 | 3406.24 |
| Be 313.042 | 49.8280b | ppb | 0.0476 | 0.1 | 90027.2 |
| Ca 370.602 | 229603b | ppb | 129.6 | 0.1 | 628534 |
| Cd 226.502 | 48.8153b | ppb | 0.1029 | 0.2 | 2139.15 |
| Co 228.615 | 50.0354b | ppb | 0.4981 | 1.0 | 582.402 |
| Cr 267.716 | 99.6876b | ppb | 0.2665 | 0.3 | 5480.12 |
| Cu 324.754 | 106.097b | ppb | 0.5501 | 0.5 | 8107.06 |
| Fe 271.441 | 6707.76b | ppb | 8.0047 | 0.1 | 10650.4 |
| K 766.491 | 9558.50b | ppb | 27.5975 | 0.3 | 428942 |
| Mg 279.078 | 11419.0b | ppb | 14.9885 | 0.1 | 31061.9 |
| Mn 257.610 | 613.051b | ppb | 0.4471 | 0.1 | 114295 |
| Mo 202.032 | 111.240b | ppb | 0.4975 | 0.4 | 767.143 |
| Na 330.237 | 118692xb | ppb | 418.629 | 0.4 | 5626.56 |
| Ni 231.604 | 99.2663b | ppb | 1.0548 | 1.1 | 305.723 |
| Pb 220.353 | 480.765b | ppb | 3.8300 | 0.8 | 776.665 |
| Sb 206.834 | 53.5943b | ppb | 2.3533 | 4.4 | 73.9573 |
| Se 196.026 | 101.015b | ppb | 6.8912 | 6.8 | 47.1518 |
| Sn 189.925 | 187.243b | ppb | 2.9137 | 1.6 | 137.814 |
| Sr 216.596 | 405.682b | ppb | 0.4248 | 0.1 | 5152.32 |
| Ti 334.941 | 100.125b | ppb | 0.0309 | 0.0 | 29550.4 |
| Tl 190.794 | 35.3941b | ppb | 2.1769 | 6.2 | 29.9506 |
| V 292.401 | 98.9253b | ppb | 0.2854 | 0.3 | 2482.63 |
| Zn 206.200 | 110.336b | ppb | 0.6162 | 0.6 | 121.429 |

**480-69175-c-1-c msd (Samp)** **10/20/2014, 5:08:47 PM** **Rack 1, Tube 18**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 50.7626 | 50.8627 | 51.0901 |
| Al 308.215 | 5006.15 | 5001.50 | 5004.75 |
| As 188.980 | 106.236 | 104.243 | 102.452 |
| B 249.678 | 1162.11 | 1165.35 | 1168.72 |
| Ba 389.178 | 150.918 | 150.837 | 151.351 |
| Be 313.042 | 49.0643 | 49.0748 | 49.1846 |
| Ca 370.602 | 216043 | 217291 | 217675 |
| Cd 226.502 | 47.9849 | 48.1262 | 48.2591 |
| Co 228.615 | 48.5570 | 49.5869 | 49.2191 |
| Cr 267.716 | 98.2281 | 98.1960 | 98.6781 |
| Cu 324.754 | 104.414 | 105.740 | 105.338 |
| Fe 271.441 | 6518.71 | 6529.60 | 6526.28 |
| K 766.491 | 9246.92 | 9248.79 | 9189.82 |
| Mg 279.078 | 10982.6 | 10985.4 | 11014.9 |
| Mn 257.610 | 601.495 | 603.683 | 605.607 |
| Mo 202.032 | 109.587 | 110.500 | 109.983 |
| Na 330.237 | 111125x | 110997x | 110954x |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 98.4478 | 97.2294 | 98.6573 |
| Pb 220.353 | 471.300 | 477.283 | 472.360 |
| Sb 206.834 | 52.4341 | 55.1685 | 49.2315 |
| Se 196.026 | 106.604 | 92.0862 | 101.260 |
| Sn 189.925 | 181.832 | 186.254 | 183.811 |
| Sr 216.596 | 384.062 | 384.777 | 385.890 |
| Ti 334.941 | 98.5980 | 98.6276 | 98.7248 |
| Tl 190.794 | 39.1667 | 31.6489 | 34.7742 |
| V 292.401 | 97.7794 | 97.7731 | 97.7365 |
| Zn 206.200 | 106.955 | 104.979 | 108.469 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 50.9051b | ppb | 0.1678 | 0.3 | 4273.67 |
| Al 308.215 | 5004.14b | ppb | 2.3830 | 0.0 | 34580.7 |
| As 188.980 | 104.311b | ppb | 1.8930 | 1.8 | 63.5673 |
| B 249.678 | 1165.39b | ppb | 3.3075 | 0.3 | 19577.7 |
| Ba 389.178 | 151.035b | ppb | 0.2762 | 0.2 | 3287.79 |
| Be 313.042 | 49.1079b | ppb | 0.0667 | 0.1 | 88718.8 |
| Ca 370.602 | 217003b | ppb | 853.3 | 0.4 | 594042 |
| Cd 226.502 | 48.1234b | ppb | 0.1371 | 0.3 | 2108.77 |
| Co 228.615 | 49.1210b | ppb | 0.5219 | 1.1 | 571.823 |
| Cr 267.716 | 98.3674b | ppb | 0.2696 | 0.3 | 5407.83 |
| Cu 324.754 | 105.164b | ppb | 0.6802 | 0.6 | 8037.87 |
| Fe 271.441 | 6524.86b | ppb | 5.5780 | 0.1 | 10360.3 |
| K 766.491 | 9228.51b | ppb | 33.5188 | 0.4 | 414140 |
| Mg 279.078 | 10994.3b | ppb | 17.9057 | 0.2 | 29907.3 |
| Mn 257.610 | 603.595b | ppb | 2.0570 | 0.3 | 112530 |
| Mo 202.032 | 110.023b | ppb | 0.4578 | 0.4 | 758.819 |
| Na 330.237 | 111025xb | ppb | 89.0638 | 0.1 | 5264.58 |
| Ni 231.604 | 98.1115b | ppb | 0.7711 | 0.8 | 302.101 |
| Pb 220.353 | 473.648b | ppb | 3.1923 | 0.7 | 765.334 |
| Sb 206.834 | 52.2780b | ppb | 2.9715 | 5.7 | 72.0627 |
| Se 196.026 | 99.9835b | ppb | 7.3428 | 7.3 | 46.6649 |
| Sn 189.925 | 183.965b | ppb | 2.2149 | 1.2 | 135.318 |
| Sr 216.596 | 384.909b | ppb | 0.9214 | 0.2 | 4887.84 |
| Ti 334.941 | 98.6501b | ppb | 0.0663 | 0.1 | 29114.3 |
| Tl 190.794 | 35.1966b | ppb | 3.7767 | 10.7 | 29.7509 |
| V 292.401 | 97.7630b | ppb | 0.0232 | 0.0 | 2453.31 |
| Zn 206.200 | 106.801b | ppb | 1.7505 | 1.6 | 117.565 |

**680-106246-a-1-a (Samp)** **10/20/2014, 5:13:02 PM** **Rack 1, Tube 19**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.2268u | -0.0425u | 0.0349u |
| Al 308.215 | 170.048 | 172.143 | 172.164 |
| As 188.980 | 124.639 | 119.711 | 121.664 |
| B 249.678 | 19302.9x | 19374.9x | 19363.3x |
| Ba 389.178 | 529.005 | 527.352 | 528.496 |
| Be 313.042 | 0.1483 | 0.1549 | 0.1523 |
| Ca 370.602 | 134067 | 134266 | 133740 |
| Cd 226.502 | 0.2006 | 0.2013 | 0.3440 |
| Co 228.615 | 32.8970 | 32.3764 | 32.7742 |
| Cr 267.716 | 75.0627 | 74.7770 | 74.8530 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 3.0098 | 2.8134 | 2.6206 |
| Fe 271.441 | 2082.21 | 2092.52 | 2080.28 |
| K 766.491 | 358458x | 359481x | 358779x |
| Mg 279.078 | 93383.9 | 93343.2 | 93205.4 |
| Mn 257.610 | 386.834 | 387.189 | 385.946 |
| Mo 202.032 | 4.4859 | 4.3809 | 4.7593 |
| Na 330.237 | 1948351x | 1947358x | 1949173x |
| Ni 231.604 | 102.583 | 101.824 | 100.213 |
| Pb 220.353 | 0.5125 | 0.5892 | -0.2171u |
| Sb 206.834 | 32.3579 | 27.6010 | 26.8961 |
| Se 196.026 | 13.9500 | 22.0377 | 9.6996 |
| Sn 189.925 | 5.5323 | 6.9289 | 1.7786 |
| Sr 216.596 | 893.258 | 895.270 | 891.775 |
| Ti 334.941 | 49.3798 | 49.5265 | 49.3012 |
| Tl 190.794 | -5.6720u | -7.8087u | -6.1038u |
| V 292.401 | 90.4650 | 90.1476 | 89.6707 |
| Zn 206.200 | 28.3005 | 30.9254 | 27.6241 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0781b | ppb | 0.1345 | 172.1 | -56.1070 |
| Al 308.215 | 171.452b | ppb | 1.2157 | 0.7 | 1671.31 |
| As 188.980 | 122.005b | ppb | 2.4816 | 2.0 | 75.5111 |
| B 249.678 | 19347.0xb | ppb | 38.6426 | 0.2 | 324649 |
| Ba 389.178 | 528.284b | ppb | 0.8462 | 0.2 | 11731.4 |
| Be 313.042 | 0.1518b | ppb | 0.0033 | 2.2 | -191.336 |
| Ca 370.602 | 134024b | ppb | 265.3 | 0.2 | 366916 |
| Cd 226.502 | 0.2486b | ppb | 0.0826 | 33.2 | 23.9961 |
| Co 228.615 | 32.6825b | ppb | 0.2722 | 0.8 | 383.713 |
| Cr 267.716 | 74.8976b | ppb | 0.1480 | 0.2 | 4161.96 |
| Cu 324.754 | 2.8146b | ppb | 0.1946 | 6.9 | 452.736 |
| Fe 271.441 | 2085.00b | ppb | 6.5814 | 0.3 | 3319.24 |
| K 766.491 | 358906xb | ppb | 523.389 | 0.1 | 16098829 |
| Mg 279.078 | 93310.8b | ppb | 93.5246 | 0.1 | 253776 |
| Mn 257.610 | 386.656b | ppb | 0.6404 | 0.2 | 72651.9 |
| Mo 202.032 | 4.5421b | ppb | 0.1954 | 4.3 | 36.4536 |
| Na 330.237 | 1948294xb | ppb | 908.781 | 0.0 | 92038.3 |
| Ni 231.604 | 101.540b | ppb | 1.2103 | 1.2 | 312.470 |
| Pb 220.353 | 0.2949b | ppb | 0.4450 | 150.9 | 12.4768 |
| Sb 206.834 | 28.9517b | ppb | 2.9709 | 10.3 | 39.9344 |
| Se 196.026 | 15.2291b | ppb | 6.2677 | 41.2 | 7.0089 |
| Sn 189.925 | 4.7466b | ppb | 2.6635 | 56.1 | -0.4125 |
| Sr 216.596 | 893.434b | ppb | 1.7539 | 0.2 | 11183.8 |
| Ti 334.941 | 49.4025b | ppb | 0.1144 | 0.2 | 14558.2 |
| Tl 190.794 | -6.5282b | ppb | 1.1298 | 17.3 | -15.3295 |
| V 292.401 | 90.0944b | ppb | 0.3998 | 0.4 | 2260.99 |
| Zn 206.200 | 28.9500b | ppb | 1.7439 | 6.0 | 32.4377 |

**680-106246-a-1-a^10 (Samp)** **10/20/2014, 5:17:18 PM** **Rack 1, Tube 20**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1709u | -0.0514u | -0.1147u |
| Al 308.215 | 18.1282 | 17.5989 | 18.7583 |
| As 188.980 | 14.2425 | 13.8770 | 11.9520 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 2081.83 | 2029.59 | 1977.91 |
| Ba 389.178 | 55.2050 | 52.9340 | 52.7677 |
| Be 313.042 | 0.0094 | 0.0063u | 0.0087 |
| Ca 370.602 | 13422 | 13166 | 12935 |
| Cd 226.502 | 0.0719 | 0.0778 | 0.0287 |
| Co 228.615 | 3.6446 | 3.3044 | 2.8219 |
| Cr 267.716 | 7.6756 | 7.4892 | 7.4326 |
| Cu 324.754 | 0.1910 | 0.1134 | 0.2681 |
| Fe 271.441 | 216.174 | 215.317 | 215.556 |
| K 766.491 | 40231.8x | 39346.4x | 38440.3x |
| Mg 279.078 | 9867.32 | 9660.28 | 9463.58 |
| Mn 257.610 | 39.5256 | 38.8247 | 38.1860 |
| Mo 202.032 | 0.2322 | 1.0315 | 0.2648 |
| Na 330.237 | 158599x | 154293x | 151971x |
| Ni 231.604 | 11.2610 | 11.2394 | 11.5314 |
| Pb 220.353 | -1.2792u | -0.3878u | 2.7048 |
| Sb 206.834 | 0.8333 | 4.7736 | 0.8264 |
| Se 196.026 | 1.5679 | 4.6633 | -2.2755u |
| Sn 189.925 | -2.2423u | 4.8231 | -3.0110u |
| Sr 216.596 | 93.7241 | 90.7664 | 90.0855 |
| Ti 334.941 | 5.1049 | 4.9594 | 4.8880 |
| Tl 190.794 | -3.1308u | 0.5403 | 0.1974 |
| V 292.401 | 8.8739 | 8.7026 | 9.0151 |
| Zn 206.200 | 5.1104 | 3.3824 | 2.6366 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1123b | ppb | 0.0597 | 53.2 | -31.7336 |
| Al 308.215 | 18.1618b | ppb | 0.5804 | 3.2 | 616.461 |
| As 188.980 | 13.3572b | ppb | 1.2306 | 9.2 | 2.2383 |
| B 249.678 | 2029.78b | ppb | 51.9633 | 2.6 | 34094.8 |
| Ba 389.178 | 53.6356b | ppb | 1.3617 | 2.5 | 1130.45 |
| Be 313.042 | 0.0082b | ppb | 0.0016 | 20.1 | -278.539 |
| Ca 370.602 | 13174b | ppb | 243.7 | 1.9 | 36086 |
| Cd 226.502 | 0.0595b | ppb | 0.0268 | 45.1 | 19.1572 |
| Co 228.615 | 3.2570b | ppb | 0.4134 | 12.7 | 42.2581 |
| Cr 267.716 | 7.5325b | ppb | 0.1271 | 1.7 | 448.836 |
| Cu 324.754 | 0.1909b | ppb | 0.0774 | 40.5 | 258.669 |
| Fe 271.441 | 215.682b | ppb | 0.4425 | 0.2 | 351.369 |
| K 766.491 | 39339.5xb | ppb | 895.774 | 2.3 | 1764762 |
| Mg 279.078 | 9663.73b | ppb | 201.894 | 2.1 | 26302.3 |
| Mn 257.610 | 38.8454b | ppb | 0.6700 | 1.7 | 7329.76 |
| Mo 202.032 | 0.5095b | ppb | 0.4524 | 88.8 | 9.0069 |
| Na 330.237 | 154954xb | ppb | 3363.39 | 2.2 | 7343.44 |
| Ni 231.604 | 11.3439b | ppb | 0.1627 | 1.4 | 30.5939 |
| Pb 220.353 | 0.3460b | ppb | 2.0909 | 604.4 | 12.3433 |
| Sb 206.834 | 2.1444b | ppb | 2.2770 | 106.2 | 0.6750 |
| Se 196.026 | 1.3186b | ppb | 3.4761 | 263.6 | 0.4114 |
| Sn 189.925 | -0.1434b | ppb | 4.3182 | 3011.4 | -4.7158 |
| Sr 216.596 | 91.5253b | ppb | 1.9344 | 2.1 | 1150.46 |
| Ti 334.941 | 4.9841b | ppb | 0.1105 | 2.2 | 1430.90 |
| Tl 190.794 | -0.7977b | ppb | 2.0278 | 254.2 | -9.1654 |
| V 292.401 | 8.8639b | ppb | 0.1565 | 1.8 | 210.587 |
| Zn 206.200 | 3.7098b | ppb | 1.2690 | 34.2 | 5.0493 |

**680-106262-c-3-a^500 (Samp)** **10/20/2014, 5:21:35 PM** **Rack 1, Tube 21**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.3318 | -0.3483u | -0.3625u |
| Al 308.215 | 4.2559 | 4.6608 | 4.9139 |
| As 188.980 | -2.9612u | 2.6133 | -0.1966u |
| B 249.678 | 89.5555 | 81.5967 | 74.9077 |
| Ba 389.178 | 0.7711 | 0.3860 | 0.4365 |
| Be 313.042 | 0.0063 | 0.0059 | 0.0081 |
| Ca 370.602 | 80.60 | 80.11 | 83.01 |
| Cd 226.502 | -0.1595u | 0.0248 | -0.0028u |
| Co 228.615 | -0.1428u | -0.0818u | -0.1060u |
| Cr 267.716 | 0.1405 | -0.0105u | 0.0056 |
| Cu 324.754 | 0.1627 | -0.2349u | -0.1806u |
| Fe 271.441 | 1.7835 | 7.4408 | 8.3147 |
| K 766.491 | 38.5085 | 37.9156 | 38.6508 |
| Mg 279.078 | 7.4369 | 12.4267 | 15.3253 |
| Mn 257.610 | 0.3360 | 0.3236 | 0.3861 |
| Mo 202.032 | 1.2099 | 1.1929 | 1.2252 |
| Na 330.237 | 14478.1 | 14538.9 | 14503.9 |
| Ni 231.604 | -0.4234u | 0.9547 | 0.0050 |
| Pb 220.353 | -1.1437u | 0.2251 | -0.7351u |
| Sb 206.834 | -0.5481u | -2.8495u | -0.6389u |
| Se 196.026 | -2.3180u | -3.2518u | 6.4959 |
| Sn 189.925 | 0.7681 | -2.5274u | -1.3116u |
| Sr 216.596 | 0.4448 | -0.0255u | -0.0188u |
| Ti 334.941 | 0.0181 | 0.0252 | 0.0905 |
| Tl 190.794 | -0.9150u | 3.6482 | 0.5619 |
| V 292.401 | 0.1357 | -0.1406u | -0.2434u |
| Zn 206.200 | 0.6042 | 2.3045 | 1.5702 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1263 | ppb | 0.3968 | 314.2 | -29.7674 |
| Al 308.215 | 4.6102 | ppb | 0.3319 | 7.2 | 523.009 |
| As 188.980 | -0.1815 | ppb | 2.7872 | 1535.8 | -6.8926 |
| B 249.678 | 82.0199 | ppb | 7.3331 | 8.9 | 1414.74 |
| Ba 389.178 | 0.5312 | ppb | 0.2093 | 39.4 | -56.0108 |
| Be 313.042 | 0.0068 | ppb | 0.0012 | 17.4 | -268.202 |
| Ca 370.602 | 81.24 | ppb | 1.550 | 1.9 | 243.1 |
| Cd 226.502 | -0.0458 | ppb | 0.0994 | 216.9 | 14.6041 |
| Co 228.615 | -0.1102 | ppb | 0.0307 | 27.9 | 3.1576 |
| Cr 267.716 | 0.0452 | ppb | 0.0830 | 183.5 | 37.3258 |
| Cu 324.754 | -0.0842 | ppb | 0.2156 | 255.9 | 238.362 |
| Fe 271.441 | 5.8464 | ppb | 3.5456 | 60.6 | 18.1793 |
| K 766.491 | 38.3583 | ppb | 0.3899 | 1.0 | 1918.46 |
| Mg 279.078 | 11.7296 | ppb | 3.9901 | 34.0 | 54.1373 |
| Mn 257.610 | 0.3486 | ppb | 0.0331 | 9.5 | 96.8025 |
| Mo 202.032 | 1.2093 | ppb | 0.0162 | 1.3 | 13.8205 |
| Na 330.237 | 14507.0 | ppb | 30.5438 | 0.2 | 710.514 |
| Ni 231.604 | 0.1788 | ppb | 0.7053 | 394.5 | -4.2972 |
| Pb 220.353 | -0.5513 | ppb | 0.7027 | 127.5 | 10.8912 |
| Sb 206.834 | -1.3455 | ppb | 1.3033 | 96.9 | -4.4392 |
| Se 196.026 | 0.3087 | ppb | 5.3786 | 1742.2 | -0.0717 |
| Sn 189.925 | -1.0236 | ppb | 1.6665 | 162.8 | -5.4312 |
| Sr 216.596 | 0.1335 | ppb | 0.2696 | 202.0 | 7.2419 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 0.0446 | ppb | 0.0399 | 89.4 | -34.3579 |
| Tl 190.794 | 1.0984 | ppb | 2.3284 | 212.0 | -7.1003 |
| V 292.401 | -0.0827 | ppb | 0.1961 | 237.0 | -15.8238 |
| Zn 206.200 | 1.4930 | ppb | 0.8528 | 57.1 | 2.6509 |

**680-106247-a-3-a^10 (Samp)** **10/20/2014, 5:25:51 PM** **Rack 1, Tube 22**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0641 | 0.2864 | -0.0343u |
| Al 308.215 | 4.4560 | 2.9773 | 4.0875 |
| As 188.980 | 1.8925 | -0.2623u | 2.8747 |
| B 249.678 | 49.5598 | 47.5079 | 46.2997 |
| Ba 389.178 | 2.8116 | 2.9519 | 2.9752 |
| Be 313.042 | 0.0032 | -0.0035u | -0.0030u |
| Ca 370.602 | 4437 | 4375 | 4290 |
| Cd 226.502 | -0.1033u | 0.0397 | 0.0379 |
| Co 228.615 | 0.2446 | -0.2243u | 0.1106 |
| Cr 267.716 | -0.0094u | 0.1265 | -0.0174u |
| Cu 324.754 | 0.7469 | 0.7417 | 0.8025 |
| Fe 271.441 | 12.3127 | 10.7738 | 17.5713 |
| K 766.491 | 2756.94 | 2708.14 | 2648.28 |
| Mg 279.078 | 2163.95 | 2125.22 | 2079.10 |
| Mn 257.610 | 6.0201 | 5.8399 | 5.8595 |
| Mo 202.032 | -0.1725u | 0.3970 | 0.0755 |
| Na 330.237 | 13936.1 | 13689.6 | 13610.0 |
| Ni 231.604 | 1.6453 | 0.0300 | 0.5758 |
| Pb 220.353 | -0.6774u | -1.6127u | -0.0722u |
| Sb 206.834 | 0.7690 | 0.2779 | 2.1172 |
| Se 196.026 | 8.7712 | -2.4496u | -1.1063u |
| Sn 189.925 | -1.1624u | 0.2131 | 0.5000 |
| Sr 216.596 | 24.2394 | 23.6309 | 23.3962 |
| Ti 334.941 | 0.0355 | 0.0077 | -0.0060 |
| Tl 190.794 | -1.3054u | 3.6614 | 0.6861 |
| V 292.401 | 0.2413 | 0.0701 | 0.0091 |
| Zn 206.200 | 1.9768 | 2.4030 | 1.7703 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.1054 | ppb | 0.1643 | 155.9 | -11.0017 |
| Al 308.215 | 3.8403 | ppb | 0.7697 | 20.0 | 517.733 |
| As 188.980 | 1.5016 | ppb | 1.6046 | 106.9 | -5.7571 |
| B 249.678 | 47.7891 | ppb | 1.6481 | 3.4 | 840.373 |
| Ba 389.178 | 2.9129 | ppb | 0.0885 | 3.0 | -0.4820 |
| Be 313.042 | -0.0011 | ppb | 0.0038 | 338.1 | -280.941 |
| Ca 370.602 | 4368 | ppb | 73.81 | 1.7 | 11977 |
| Cd 226.502 | -0.0086 | ppb | 0.0820 | 959.2 | 16.2756 |
| Co 228.615 | 0.0436 | ppb | 0.2415 | 553.7 | 4.9650 |
| Cr 267.716 | 0.0332 | ppb | 0.0809 | 243.5 | 36.6868 |
| Cu 324.754 | 0.7637 | ppb | 0.0337 | 4.4 | 301.112 |
| Fe 271.441 | 13.5526 | ppb | 3.5643 | 26.3 | 30.4235 |
| K 766.491 | 2704.45 | ppb | 54.4221 | 2.0 | 121505 |
| Mg 279.078 | 2122.76 | ppb | 42.4814 | 2.0 | 5795.03 |
| Mn 257.610 | 5.9065 | ppb | 0.0989 | 1.7 | 1145.83 |
| Mo 202.032 | 0.1000 | ppb | 0.2855 | 285.5 | 6.2209 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 13745.2 | ppb | 170.021 | 1.2 | 674.537 |
| Ni 231.604 | 0.7504 | ppb | 0.8216 | 109.5 | -2.5112 |
| Pb 220.353 | -0.7874 | ppb | 0.7762 | 98.6 | 10.5187 |
| Sb 206.834 | 1.0547 | ppb | 0.9524 | 90.3 | -0.9748 |
| Se 196.026 | 1.7384 | ppb | 6.1275 | 352.5 | 0.5968 |
| Sn 189.925 | -0.1498 | ppb | 0.8886 | 593.3 | -4.7668 |
| Sr 216.596 | 23.7555 | ppb | 0.4352 | 1.8 | 303.095 |
| Ti 334.941 | 0.0124 | ppb | 0.0211 | 170.2 | -40.0229 |
| Tl 190.794 | 1.0140 | ppb | 2.4996 | 246.5 | -7.1871 |
| V 292.401 | 0.1068 | ppb | 0.1204 | 112.7 | -10.8158 |
| Zn 206.200 | 2.0500 | ppb | 0.3226 | 15.7 | 3.2616 |

**680-106247-a-6-a^10 (Samp)** **10/20/2014, 5:30:08 PM** **Rack 1, Tube 23**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0001u | 0.0605 | -0.3676u |
| Al 308.215 | 7.6763 | 6.0208 | 7.8773 |
| As 188.980 | -0.9402u | 1.4312 | -3.1254u |
| B 249.678 | 37.4900 | 35.5218 | 34.5335 |
| Ba 389.178 | 1.4985 | 1.3461 | 0.9657 |
| Be 313.042 | 0.0047 | 0.0115 | 0.0070 |
| Ca 370.602 | 3988 | 3869 | 3761 |
| Cd 226.502 | -0.0872u | -0.1540u | 0.0354 |
| Co 228.615 | -0.2923u | -0.5714u | -0.4883u |
| Cr 267.716 | 0.2141 | 0.2223 | 0.0931 |
| Cu 324.754 | 0.4312 | 0.3108 | 0.3910 |
| Fe 271.441 | 252.896 | 233.840 | 235.649 |
| K 766.491 | 2337.81 | 2274.32 | 2218.88 |
| Mg 279.078 | 1283.20 | 1241.14 | 1207.39 |
| Mn 257.610 | 60.7888 | 58.8632 | 57.0870 |
| Mo 202.032 | 0.3446 | 0.6665 | 0.1149 |
| Na 330.237 | 10077.4 | 9701.22 | 9489.31 |
| Ni 231.604 | -0.6088u | 1.0917 | 0.2376 |
| Pb 220.353 | 2.2002 | -2.3008u | -0.1635u |
| Sb 206.834 | -1.1353u | -0.2534u | -0.2653u |
| Se 196.026 | 3.8599 | -3.7053u | -2.5224u |
| Sn 189.925 | -1.8041u | 1.0301 | -1.4264u |
| Sr 216.596 | 20.6045 | 20.0064 | 20.2136 |
| Ti 334.941 | 0.0617 | 0.0360 | 0.0781 |
| Tl 190.794 | 1.6575 | -1.3338u | -0.0144u |
| V 292.401 | 0.6846 | 0.3192 | 0.1504 |
| Zn 206.200 | 0.3958 | 1.2059 | 1.6911 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.1024 | ppb | 0.2317 | 226.2 | -28.2004 |
| Al 308.215 | 7.1915 | ppb | 1.0188 | 14.2 | 540.959 |
| As 188.980 | -0.8781 | ppb | 2.2789 | 259.5 | -7.3638 |
| B 249.678 | 35.8484 | ppb | 1.5051 | 4.2 | 639.506 |
| Ba 389.178 | 1.2701 | ppb | 0.2744 | 21.6 | -37.8705 |
| Be 313.042 | 0.0077 | ppb | 0.0034 | 44.2 | -264.641 |
| Ca 370.602 | 3872 | ppb | 113.8 | 2.9 | 10620 |
| Cd 226.502 | -0.0686 | ppb | 0.0961 | 140.1 | 14.5593 |
| Co 228.615 | -0.4507 | ppb | 0.1433 | 31.8 | -0.7355 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 0.1765 | ppb | 0.0724 | 41.0 | 44.7836 |
| Cu 324.754 | 0.3777 | ppb | 0.0613 | 16.2 | 272.631 |
| Fe 271.441 | 240.795 | ppb | 10.5186 | 4.4 | 390.629 |
| K 766.491 | 2277.00 | ppb | 59.5113 | 2.6 | 102332 |
| Mg 279.078 | 1243.91 | ppb | 37.9808 | 3.1 | 3403.90 |
| Mn 257.610 | 58.9130 | ppb | 1.8514 | 3.1 | 11012.0 |
| Mo 202.032 | 0.3753 | ppb | 0.2771 | 73.8 | 8.0962 |
| Na 330.237 | 9755.99 | ppb | 297.857 | 3.1 | 486.089 |
| Ni 231.604 | 0.2401 | ppb | 0.8502 | 354.1 | -4.0847 |
| Pb 220.353 | -0.0881 | ppb | 2.2515 | 2557.0 | 11.6568 |
| Sb 206.834 | -0.5514 | ppb | 0.5058 | 91.7 | -3.2746 |
| Se 196.026 | -0.7892 | ppb | 4.0695 | 515.6 | -0.5673 |
| Sn 189.925 | -0.7335 | ppb | 1.5390 | 209.8 | -5.2121 |
| Sr 216.596 | 20.2749 | ppb | 0.3037 | 1.5 | 259.827 |
| Ti 334.941 | 0.0586 | ppb | 0.0212 | 36.2 | -27.5970 |
| Tl 190.794 | 0.1031 | ppb | 1.4991 | 1453.9 | -8.1940 |
| V 292.401 | 0.3847 | ppb | 0.2730 | 71.0 | -3.6817 |
| Zn 206.200 | 1.0976 | ppb | 0.6544 | 59.6 | 2.2058 |

**680-106247-a-10-a^10 (Samp)** **10/20/2014, 5:34:26 PM** **Rack 1, Tube 24**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1989 | -0.0820u | 0.2616 |
| Al 308.215 | 24.0456 | 23.6166 | 22.4518 |
| As 188.980 | -0.8114u | -1.2230u | 0.3723 |
| B 249.678 | 29.8712 | 28.9807 | 28.5258 |
| Ba 389.178 | 3.4464 | 3.9100 | 3.7588 |
| Be 313.042 | 0.0074 | -0.0002u | 0.0119 |
| Ca 370.602 | 386.2 | 376.5 | 369.8 |
| Cd 226.502 | -0.0475u | -0.0053u | 0.0093 |
| Co 228.615 | 0.0829 | 0.0108 | -0.4646u |
| Cr 267.716 | 0.2936 | 0.0937 | 0.1849 |
| Cu 324.754 | 0.3222 | 0.3284 | 0.3181 |
| Fe 271.441 | 14.5716 | 22.0531 | 12.7605 |
| K 766.491 | 604.505 | 593.603 | 579.120 |
| Mg 279.078 | 101.310 | 100.982 | 98.1339 |
| Mn 257.610 | 10.2300 | 10.0451 | 9.7631 |
| Mo 202.032 | 0.1737 | 0.1411 | 0.0332 |
| Na 330.237 | 11020.3 | 10831.3 | 10505.4 |
| Ni 231.604 | 0.3927 | -0.3838u | 0.1209 |
| Pb 220.353 | 0.7979 | 0.2930 | -1.8653u |
| Sb 206.834 | -2.0119u | -0.1851u | -0.8631u |
| Se 196.026 | 1.2154 | -1.4613u | -3.9710u |
| Sn 189.925 | 2.4683 | -1.3517u | -0.4993u |
| Sr 216.596 | 2.9603 | 3.2575 | 3.0887 |
| Ti 334.941 | 0.0719 | -0.0085u | 0.0605 |
| Tl 190.794 | 3.2359 | 0.0604 | -0.5589u |
| V 292.401 | 0.1504 | 0.1424 | -0.0275u |
| Zn 206.200 | 1.4585 | 4.1624 | 1.4390 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.1262 | ppb | 0.1830 | 145.0 | -8.4837 |
| Al 308.215 | 23.3713 | ppb | 0.8247 | 3.5 | 650.682 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | -0.5540 | ppb | 0.8282 | 149.5 | -7.1436 |
| B 249.678 | 29.1259 | ppb | 0.6844 | 2.3 | 527.191 |
| Ba 389.178 | 3.7051 | ppb | 0.2364 | 6.4 | 14.2176 |
| Be 313.042 | 0.0064 | ppb | 0.0061 | 96.3 | -268.250 |
| Ca 370.602 | 377.5 | ppb | 8.203 | 2.2 | 1054 |
| Cd 226.502 | -0.0145 | ppb | 0.0295 | 203.2 | 16.0257 |
| Co 228.615 | -0.1236 | ppb | 0.2974 | 240.6 | 3.0292 |
| Cr 267.716 | 0.1907 | ppb | 0.1001 | 52.5 | 45.2393 |
| Cu 324.754 | 0.3229 | ppb | 0.0052 | 1.6 | 268.477 |
| Fe 271.441 | 16.4618 | ppb | 4.9262 | 29.9 | 35.0148 |
| K 766.491 | 592.409 | ppb | 12.7344 | 2.1 | 26770.3 |
| Mg 279.078 | 100.142 | ppb | 1.7469 | 1.7 | 294.374 |
| Mn 257.610 | 10.0127 | ppb | 0.2351 | 2.3 | 1897.19 |
| Mo 202.032 | 0.1160 | ppb | 0.0735 | 63.4 | 6.3302 |
| Na 330.237 | 10785.6 | ppb | 260.485 | 2.4 | 534.749 |
| Ni 231.604 | 0.0433 | ppb | 0.3940 | 910.8 | -4.7196 |
| Pb 220.353 | -0.2581 | ppb | 1.4145 | 548.0 | 11.3613 |
| Sb 206.834 | -1.0200 | ppb | 0.9235 | 90.5 | -3.9526 |
| Se 196.026 | -1.4056 | ppb | 2.5937 | 184.5 | -0.8692 |
| Sn 189.925 | 0.2058 | ppb | 2.0052 | 974.6 | -4.4973 |
| Sr 216.596 | 3.1022 | ppb | 0.1491 | 4.8 | 44.3676 |
| Ti 334.941 | 0.0413 | ppb | 0.0435 | 105.3 | -34.8533 |
| Tl 190.794 | 0.9125 | ppb | 2.0358 | 223.1 | -7.2980 |
| V 292.401 | 0.0884 | ppb | 0.1005 | 113.6 | -11.2999 |
| Zn 206.200 | 2.3533 | ppb | 1.5668 | 66.6 | 3.5936 |

**Cont Calib Verif (CCV)** **10/20/2014, 5:38:42 PM** **Rack 1, Tube 25**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 503.838 | 506.326 | 504.382 |
| Al 308.215 | 4833.08 | 4826.78 | 4834.28 |
| As 188.980 | 477.815 | 486.794 | 486.484 |
| B 249.678 | 494.763 | 495.583 | 498.519 |
| Ba 389.178 | 4958.87 | 4957.31 | 4963.09 |
| Be 313.042 | 499.312 | 496.689 | 497.859 |
| Ca 370.602 | 5047 | 5035 | 5046 |
| Cd 226.502 | 495.616 | 493.907 | 494.287 |
| Co 228.615 | 502.809 | 502.069 | 503.399 |
| Cr 267.716 | 5011.43 | 5006.70 | 5018.56 |
| Cu 324.754 | 5030.98 | 5064.43 | 5040.43 |
| Fe 271.441 | 4911.32 | 4900.29 | 4913.11 |
| K 766.491 | 10117.6 | 10134.8 | 10168.8 |
| Mg 279.078 | 4904.53 | 4903.60 | 4901.15 |
| Mn 257.610 | 5134.43 | 5154.91 | 5132.28 |
| Mo 202.032 | 496.696 | 497.678 | 497.147 |
| Na 330.237 | 7476.23 | 7501.43 | 7197.82 |
| Ni 231.604 | 2518.76 | 2506.48 | 2514.40 |
| Pb 220.353 | 498.339 | 496.218 | 500.675 |
| Sb 206.834 | 963.276 | 962.051 | 967.093 |
| Se 196.026 | 4967.49 | 4933.29 | 4971.48 |
| Sn 189.925 | 4941.12 | 4888.65 | 4916.85 |
| Sr 216.596 | 2462.38 | 2459.49 | 2462.54 |
| Ti 334.941 | 491.248 | 491.437 | 492.558 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 5081.87 | 5048.03 | 5078.59 |
| V 292.401 | 4986.89 | 4992.72 | 4993.89 |
| Zn 206.200 | 2479.87 | 2471.96 | 2482.93 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 504.848 | ppb | 1.3079 | 0.3 | 42624.5 | 100.96968 |
| Al 308.215 | 4831.38 | ppb | 4.0286 | 0.1 | 33908.4 | 96.62761 |
| As 188.980 | 483.698 | ppb | 5.0965 | 1.1 | 319.369 | 96.73952 |
| B 249.678 | 496.288 | ppb | 1.9749 | 0.4 | 8368.49 | 99.25764 |
| Ba 389.178 | 4959.75 | ppb | 2.9895 | 0.1 | 109505 | 99.19509 |
| Be 313.042 | 497.953 | ppb | 1.3139 | 0.3 | 901836 | 99.59066 |
| Ca 370.602 | 5043 | ppb | 6.442 | 0.1 | 14138 | 100.85414 |
| Cd 226.502 | 494.603 | ppb | 0.8974 | 0.2 | 21291.1 | 98.92068 |
| Co 228.615 | 502.759 | ppb | 0.6659 | 0.1 | 5820.79 | 100.55178 |
| Cr 267.716 | 5012.23 | ppb | 5.9713 | 0.1 | 273436 | 100.24461 |
| Cu 324.754 | 5045.28 | ppb | 17.2454 | 0.3 | 373799 | 100.90559 |
| Fe 271.441 | 4908.24 | ppb | 6.9434 | 0.1 | 7901.79 | 98.16473 |
| K 766.491 | 10140.4 | ppb | 26.0664 | 0.3 | 455043 | 101.40405 |
| Mg 279.078 | 4903.10 | ppb | 1.7441 | 0.0 | 13250.4 | 98.06190 |
| Mn 257.610 | 5140.54 | ppb | 12.4950 | 0.2 | 957399 | 102.81077 |
| Mo 202.032 | 497.174 | ppb | 0.4915 | 0.1 | 3405.70 | 99.43471 |
| Na 330.237 | 7391.83 | ppb | 168.485 | 2.3 | 312.231 | 98.55772 |
| Ni 231.604 | 2513.21 | ppb | 6.2238 | 0.2 | 7846.04 | 100.52850 |
| Pb 220.353 | 498.411 | ppb | 2.2294 | 0.4 | 808.676 | 99.68217 |
| Sb 206.834 | 964.140 | ppb | 2.6299 | 0.3 | 1432.11 | 96.41398 |
| Se 196.026 | 4957.42 | ppb | 20.9921 | 0.4 | 2314.06 | 99.14841 |
| Sn 189.925 | 4915.54 | ppb | 26.2573 | 0.5 | 3734.51 | 98.31079 |
| Sr 216.596 | 2461.47 | ppb | 1.7130 | 0.1 | 30589.6 | 98.45877 |
| Ti 334.941 | 491.748 | ppb | 0.7083 | 0.1 | 145264 | 98.34957 |
| Tl 190.794 | 5069.50 | ppb | 18.6658 | 0.4 | 5574.51 | 101.38998 |
| V 292.401 | 4991.17 | ppb | 3.7510 | 0.1 | 126583 | 99.82338 |
| Zn 206.200 | 2478.25 | ppb | 5.6599 | 0.2 | 2703.93 | 99.13010 |

**Cont Calib Blank (CCB)** **10/20/2014, 5:42:56 PM** **Rack 1, Tube 26**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1646 | -0.1566u | 0.1749 |
| Al 308.215 | 4.7688 | 3.0691 | 3.3323 |
| As 188.980 | -0.9299u | -1.5654u | -0.5265u |
| B 249.678 | 13.6872 | 13.1471 | 12.1345 |
| Ba 389.178 | 0.1308 | 0.1286 | 0.3494 |
| Be 313.042 | 0.0518 | 0.0429 | 0.0509 |
| Ca 370.602 | -0.7379u | 1.638 | 1.821 |
| Cd 226.502 | -0.0682u | -0.1138u | 0.0004 |
| Co 228.615 | 0.0694 | -0.1826u | -0.0536u |
| Cr 267.716 | 0.3426 | 0.3934 | 0.4019 |
| Cu 324.754 | 0.3443 | -0.0233u | 0.4189 |
| Fe 271.441 | -0.1993u | 3.6558 | 6.3268 |
| K 766.491 | 2.4618 | 2.9191 | 2.8346 |
| Mg 279.078 | -0.5016u | -2.8082u | 0.6729 |
| Mn 257.610 | 0.5873 | 0.5409 | 0.6437 |
| Mo 202.032 | 0.2636 | 0.2341 | 0.3197 |
| Na 330.237 | 96.2957 | -82.0731u | 18.1065 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 0.2173 | 0.0014 | 0.7192 |
| Pb 220.353 | 0.4249 | -0.7908u | -1.1041u |
| Sb 206.834 | -0.3095u | 3.1604 | -1.4240u |
| Se 196.026 | 1.1857 | 6.1966 | 1.7157 |
| Sn 189.925 | -3.7118u | -2.7621u | -0.0469u |
| Sr 216.596 | 0.0842 | 0.1153 | 0.4173 |
| Ti 334.941 | 0.1250 | 0.1490 | 0.1259 |
| Tl 190.794 | 3.4246 | 2.5802 | 2.1679 |
| V 292.401 | 0.4395 | 0.6374 | 0.4374 |
| Zn 206.200 | -0.0378u | 1.2183 | 1.8040 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.0610 | ppb | 0.1885 | 309.1 | -13.9317 | 0.06098 |
| Al 308.215 | 3.7234 | ppb | 0.9148 | 24.6 | 516.951 | 3.72341 |
| As 188.980 | -1.0073 | ppb | 0.5238 | 52.0 | -7.4493 | -1.00726 |
| B 249.678 | 12.9896 | ppb | 0.7882 | 6.1 | 256.539 | 12.98961 |
| Ba 389.178 | 0.2029 | ppb | 0.1269 | 62.5 | -63.2840 | 0.20293 |
| Be 313.042 | 0.0485 | ppb | 0.0049 | 10.1 | -190.746 | 0.04853 |
| Ca 370.602 | 0.9071 | ppb | 1.427 | 157.4 | 23.29 | 0.90706 |
| Cd 226.502 | -0.0605 | ppb | 0.0575 | 94.9 | 14.0580 | -0.06053 |
| Co 228.615 | -0.0556 | ppb | 0.1260 | 226.7 | 3.8203 | -0.05560 |
| Cr 267.716 | 0.3793 | ppb | 0.0321 | 8.5 | 55.2500 | 0.37930 |
| Cu 324.754 | 0.2467 | ppb | 0.2367 | 96.0 | 262.817 | 0.24667 |
| Fe 271.441 | 3.2611 | ppb | 3.2809 | 100.6 | 14.0818 | 3.26111 |
| K 766.491 | 2.7385 | ppb | 0.2433 | 8.9 | 320.740 | 2.73849 |
| Mg 279.078 | -0.8790 | ppb | 1.7710 | 201.5 | 19.8433 | -0.87899 |
| Mn 257.610 | 0.5907 | ppb | 0.0515 | 8.7 | 141.860 | 0.59066 |
| Mo 202.032 | 0.2725 | ppb | 0.0435 | 16.0 | 7.4026 | 0.27249 |
| Na 330.237 | 10.7764 | ppb | 89.4101 | 829.7 | 25.8962 | 10.77641 |
| Ni 231.604 | 0.3126 | ppb | 0.3683 | 117.8 | -3.8792 | 0.31263 |
| Pb 220.353 | -0.4900 | ppb | 0.8077 | 164.8 | 10.9901 | -0.49002 |
| Sb 206.834 | 0.4756 | ppb | 2.3909 | 502.7 | -1.8030 | 0.47561 |
| Se 196.026 | 3.0326 | ppb | 2.7528 | 90.8 | 1.1993 | 3.03264 |
| Sn 189.925 | -2.1736 | ppb | 1.9020 | 87.5 | -6.3107 | -2.17358 |
| Sr 216.596 | 0.2056 | ppb | 0.1840 | 89.5 | 8.1155 | 0.20559 |
| Ti 334.941 | 0.1333 | ppb | 0.0136 | 10.2 | -6.9587 | 0.13332 |
| Tl 190.794 | 2.7242 | ppb | 0.6406 | 23.5 | -5.3084 | 2.72424 |
| V 292.401 | 0.5048 | ppb | 0.1149 | 22.8 | -0.6360 | 0.50478 |
| Zn 206.200 | 0.9949 | ppb | 0.9410 | 94.6 | 2.1035 | 0.99485 |

**480-69017-a-1-a^10 (Samp)** **10/20/2014, 5:47:11 PM** **Rack 1, Tube 27**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1479 | 0.1542 | -0.0432u |
| Al 308.215 | 7.5361 | 7.8534 | 7.5359 |
| As 188.980 | -3.9768u | -3.6445u | 1.1407 |
| B 249.678 | 10.4355 | 10.1974 | 9.3716 |
| Ba 389.178 | 8.8062 | 8.8326 | 8.8452 |
| Be 313.042 | 0.0138 | 0.0177 | 0.0205 |
| Ca 370.602 | 5525 | 5555 | 5522 |
| Cd 226.502 | 0.0790 | 0.0421 | -0.0495u |
| Co 228.615 | 0.7860 | 0.3010 | 0.5151 |
| Cr 267.716 | 0.1572 | 0.2628 | 0.1903 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 1.1240 | 1.0262 | 1.1683 |
| Fe 271.441 | 16.4346 | 14.8795 | 13.0704 |
| K 766.491 | 1892.65 | 1907.36 | 1897.22 |
| Mg 279.078 | 814.146 | 813.298 | 809.959 |
| Mn 257.610 | 3.2488 | 3.3144 | 3.2871 |
| Mo 202.032 | -0.0005u | -0.0128u | -0.0169u |
| Na 330.237 | 24418.8 | 24386.9 | 24173.2 |
| Ni 231.604 | 0.6342 | 0.0956 | -0.3784u |
| Pb 220.353 | 0.3858 | -1.0102u | -0.6872u |
| Sb 206.834 | -0.2702u | 0.1660 | -0.4935u |
| Se 196.026 | 1.0482 | 3.8195 | 1.6769 |
| Sn 189.925 | -3.7080u | -1.8122u | -2.5736u |
| Sr 216.596 | 76.2791 | 76.4075 | 75.5770 |
| Ti 334.941 | 0.0463 | 0.0500 | 0.0392 |
| Tl 190.794 | -0.5494u | 3.5671 | 0.0047 |
| V 292.401 | 0.3091 | 0.1695 | 0.1616 |
| Zn 206.200 | 1.5969 | 1.4179 | 1.5186 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0863 | ppb | 0.1122 | 130.0 | -14.3462 |
| Al 308.215 | 7.6418 | ppb | 0.1832 | 2.4 | 543.598 |
| As 188.980 | -2.1602 | ppb | 2.8635 | 132.6 | -8.2270 |
| B 249.678 | 10.0015 | ppb | 0.5583 | 5.6 | 206.367 |
| Ba 389.178 | 8.8280 | ppb | 0.0199 | 0.2 | 128.347 |
| Be 313.042 | 0.0173 | ppb | 0.0033 | 19.3 | -248.290 |
| Ca 370.602 | 5534 | ppb | 18.49 | 0.3 | 15170 |
| Cd 226.502 | 0.0239 | ppb | 0.0662 | 276.8 | 17.5807 |
| Co 228.615 | 0.5340 | ppb | 0.2430 | 45.5 | 10.6394 |
| Cr 267.716 | 0.2034 | ppb | 0.0540 | 26.6 | 46.1764 |
| Cu 324.754 | 1.1062 | ppb | 0.0727 | 6.6 | 326.469 |
| Fe 271.441 | 14.7948 | ppb | 1.6837 | 11.4 | 32.4450 |
| K 766.491 | 1899.07 | ppb | 7.5286 | 0.4 | 85380.4 |
| Mg 279.078 | 812.468 | ppb | 2.2135 | 0.3 | 2231.71 |
| Mn 257.610 | 3.2834 | ppb | 0.0330 | 1.0 | 648.627 |
| Mo 202.032 | -0.0101 | ppb | 0.0086 | 84.8 | 5.4667 |
| Na 330.237 | 24326.3 | ppb | 133.523 | 0.5 | 1174.26 |
| Ni 231.604 | 0.1171 | ppb | 0.5066 | 432.5 | -4.4906 |
| Pb 220.353 | -0.4372 | ppb | 0.7308 | 167.2 | 11.0751 |
| Sb 206.834 | -0.1992 | ppb | 0.3354 | 168.3 | -2.7721 |
| Se 196.026 | 2.1815 | ppb | 1.4529 | 66.6 | 0.8029 |
| Sn 189.925 | -2.6980 | ppb | 0.9540 | 35.4 | -6.7016 |
| Sr 216.596 | 76.0879 | ppb | 0.4471 | 0.6 | 955.224 |
| Ti 334.941 | 0.0452 | ppb | 0.0055 | 12.1 | -33.5854 |
| Tl 190.794 | 1.0075 | ppb | 2.2339 | 221.7 | -7.1938 |
| V 292.401 | 0.2134 | ppb | 0.0830 | 38.9 | -8.1861 |
| Zn 206.200 | 1.5112 | ppb | 0.0897 | 5.9 | 2.6700 |

**480-69017-a-2-a^10 (Samp)** **10/20/2014, 5:51:26 PM** **Rack 1, Tube 28**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0398 | 0.4962 | 0.0561 |
| Al 308.215 | 4.8865 | 5.5181 | 5.0708 |
| As 188.980 | 2.2076 | 2.7833 | 4.3889 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 7.5754 | 8.1299 | 7.8038 |
| Ba 389.178 | 8.3271 | 8.4341 | 8.8117 |
| Be 313.042 | 0.0156 | 0.0109 | 0.0090 |
| Ca 370.602 | 5422 | 5390 | 5393 |
| Cd 226.502 | 0.0085 | -0.1247u | -0.0656u |
| Co 228.615 | 0.6216 | -0.2627u | 0.0858 |
| Cr 267.716 | 0.0488 | 0.0354 | -0.0643u |
| Cu 324.754 | 2.6843 | 2.5955 | 2.7883 |
| Fe 271.441 | 5.3167 | 10.8554 | 11.4213 |
| K 766.491 | 1799.21 | 1797.32 | 1799.74 |
| Mg 279.078 | 789.540 | 790.606 | 788.448 |
| Mn 257.610 | 2.6893 | 2.6228 | 2.6432 |
| Mo 202.032 | 0.0252 | -0.0595u | -0.1377u |
| Na 330.237 | 24448.0 | 24361.8 | 24449.2 |
| Ni 231.604 | 2.0039 | -0.3635u | 0.2544 |
| Pb 220.353 | 0.9256 | 0.5467 | 0.9256 |
| Sb 206.834 | 0.8121 | 0.8847 | 0.9633 |
| Se 196.026 | 2.2552 | 8.0640 | 5.2052 |
| Sn 189.925 | -0.8408u | -2.2253u | -1.5293u |
| Sr 216.596 | 76.3185 | 76.2086 | 76.7390 |
| Ti 334.941 | 0.0631 | 0.0159 | 0.0616 |
| Tl 190.794 | -1.1404u | 0.1208 | 1.1858 |
| V 292.401 | 0.0481 | 0.1918 | -0.0321u |
| Zn 206.200 | 2.5176 | 2.3229 | 2.7327 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.1974 | ppb | 0.2589 | 131.2 | -4.9876 |
| Al 308.215 | 5.1585 | ppb | 0.3248 | 6.3 | 526.668 |
| As 188.980 | 3.1266 | ppb | 1.1304 | 36.2 | -4.6609 |
| B 249.678 | 7.8363 | ppb | 0.2786 | 3.6 | 170.055 |
| Ba 389.178 | 8.5243 | ppb | 0.2546 | 3.0 | 121.606 |
| Be 313.042 | 0.0118 | ppb | 0.0034 | 28.8 | -258.265 |
| Ca 370.602 | 5402 | ppb | 17.26 | 0.3 | 14808 |
| Cd 226.502 | -0.0606 | ppb | 0.0667 | 110.2 | 13.9226 |
| Co 228.615 | 0.1482 | ppb | 0.4454 | 300.5 | 6.1789 |
| Cr 267.716 | 0.0066 | ppb | 0.0618 | 931.0 | 35.4357 |
| Cu 324.754 | 2.6893 | ppb | 0.0965 | 3.6 | 443.699 |
| Fe 271.441 | 9.1978 | ppb | 3.3730 | 36.7 | 23.5142 |
| K 766.491 | 1798.75 | ppb | 1.2721 | 0.1 | 80880.6 |
| Mg 279.078 | 789.532 | ppb | 1.0792 | 0.1 | 2169.35 |
| Mn 257.610 | 2.6518 | ppb | 0.0341 | 1.3 | 530.844 |
| Mo 202.032 | -0.0573 | ppb | 0.0815 | 142.1 | 5.1435 |
| Na 330.237 | 24419.7 | ppb | 50.1117 | 0.2 | 1178.63 |
| Ni 231.604 | 0.6316 | ppb | 1.2279 | 194.4 | -2.8829 |
| Pb 220.353 | 0.7993 | ppb | 0.2187 | 27.4 | 13.0410 |
| Sb 206.834 | 0.8867 | ppb | 0.0756 | 8.5 | -1.2136 |
| Se 196.026 | 5.1748 | ppb | 2.9045 | 56.1 | 2.1993 |
| Sn 189.925 | -1.5318 | ppb | 0.6922 | 45.2 | -5.8145 |
| Sr 216.596 | 76.4220 | ppb | 0.2799 | 0.4 | 959.336 |
| Ti 334.941 | 0.0469 | ppb | 0.0268 | 57.2 | -33.1177 |
| Tl 190.794 | 0.0554 | ppb | 1.1645 | 2101.8 | -8.2412 |
| V 292.401 | 0.0693 | ppb | 0.1135 | 163.8 | -11.8365 |
| Zn 206.200 | 2.5244 | ppb | 0.2050 | 8.1 | 3.7825 |

**640-49394-q-5-a^500 (Samp)** **10/20/2014, 5:55:41 PM** **Rack 1, Tube 29**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.2751 | -0.0053u | 0.0822 |
| Al 308.215 | 4.6702 | 3.8320 | 4.0418 |
| As 188.980 | -2.3663u | -3.2485u | -1.1192u |
| B 249.678 | 23.4109 | 23.5388 | 22.9521 |
| Ba 389.178 | 4.4347 | 3.1935 | 3.7191 |
| Be 313.042 | 0.0076 | 0.0107 | 0.0109 |
| Ca 370.602 | 1427 | 1399 | 1337 |
| Cd 226.502 | -0.1405u | -0.1429u | -0.1509u |
| Co 228.615 | -0.4579u | 0.0479 | -0.2875u |
| Cr 267.716 | 0.0731 | 0.0385 | -0.0176u |
| Cu 324.754 | 0.0800 | -0.3562u | -0.2594u |
| Fe 271.441 | 82.7077 | 79.4475 | 78.0113 |
| K 766.491 | 643.268 | 630.136 | 605.380 |
| Mg 279.078 | 2298.73 | 2247.16 | 2146.41 |
| Mn 257.610 | 3.3401 | 3.2975 | 3.1727 |
| Mo 202.032 | 0.0365 | 0.1746 | -0.0244u |
| Na 330.237 | 13906.1 | 13562.9 | 12883.7 |
| Ni 231.604 | -0.3681u | 0.7279 | -0.0425u |
| Pb 220.353 | -0.9679u | -1.3460u | -0.7889u |
| Sb 206.834 | -1.4899u | -1.3095u | -0.2268u |
| Se 196.026 | 4.0226 | 13.1273 | 6.2348 |
| Sn 189.925 | 0.2746 | 1.8438 | -3.2312u |
| Sr 216.596 | 14.6673 | 13.9941 | 13.5965 |
| Ti 334.941 | 0.0280 | 0.0173 | 0.0422 |
| Tl 190.794 | 1.8151 | -0.8843u | -2.6008u |
| V 292.401 | 0.1257 | -0.0963u | -0.1165u |
| Zn 206.200 | 1.9810 | 0.0559 | 1.0410 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.1173 | ppb | 0.1435 | 122.3 | -9.6785 |
| Al 308.215 | 4.1813 | ppb | 0.4362 | 10.4 | 520.140 |
| As 188.980 | -2.2447 | ppb | 1.0699 | 47.7 | -8.2845 |
| B 249.678 | 23.3006 | ppb | 0.3085 | 1.3 | 429.334 |
| Ba 389.178 | 3.7824 | ppb | 0.6230 | 16.5 | 18.8856 |
| Be 313.042 | 0.0097 | ppb | 0.0018 | 18.9 | -262.198 |
| Ca 370.602 | 1388 | ppb | 46.05 | 3.3 | 3818 |
| Cd 226.502 | -0.1448 | ppb | 0.0054 | 3.7 | 10.6711 |
| Co 228.615 | -0.2325 | ppb | 0.2573 | 110.7 | 1.7814 |
| Cr 267.716 | 0.0313 | ppb | 0.0458 | 146.2 | 36.5993 |
| Cu 324.754 | -0.1786 | ppb | 0.2291 | 128.3 | 231.364 |
| Fe 271.441 | 80.0555 | ppb | 2.4065 | 3.0 | 135.815 |
| K 766.491 | 626.261 | ppb | 19.2391 | 3.1 | 28288.7 |
| Mg 279.078 | 2230.76 | ppb | 77.4721 | 3.5 | 6088.82 |
| Mn 257.610 | 3.2701 | ppb | 0.0870 | 2.7 | 655.599 |
| Mo 202.032 | 0.0622 | ppb | 0.1019 | 163.8 | 5.9592 |
| Na 330.237 | 13450.9 | ppb | 520.329 | 3.9 | 660.625 |
| Ni 231.604 | 0.1058 | ppb | 0.5628 | 532.1 | -4.5187 |
| Pb 220.353 | -1.0342 | ppb | 0.2844 | 27.5 | 10.1303 |
| Sb 206.834 | -1.0087 | ppb | 0.6831 | 67.7 | -3.9329 |
| Se 196.026 | 7.7949 | ppb | 4.7486 | 60.9 | 3.4229 |
| Sn 189.925 | -0.3710 | ppb | 2.5983 | 700.5 | -4.9351 |
| Sr 216.596 | 14.0860 | ppb | 0.5413 | 3.8 | 181.615 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 0.0292 | ppb | 0.0125 | 43.0 | -34.8771 |
| Tl 190.794 | -0.5567 | ppb | 2.2261 | 399.9 | -8.9246 |
| V 292.401 | -0.0290 | ppb | 0.1344 | 462.6 | -14.2146 |
| Zn 206.200 | 1.0260 | ppb | 0.9626 | 93.8 | 2.1354 |

**CRI (Samp)** **10/20/2014, 5:59:56 PM** **Rack 1, Tube 30**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 11.1251 | 11.2294 | 10.8527 |
| Al 308.215 | 210.324 | 211.224 | 209.327 |
| As 188.980 | 19.0770 | 19.2127 | 20.4767 |
| B 249.678 | 107.360 | 108.284 | 107.023 |
| Ba 389.178 | 10.7070 | 10.2441 | 10.1776 |
| Be 313.042 | 4.3227 | 4.3165 | 4.2785 |
| Ca 370.602 | 545.4 | 542.3 | 536.0 |
| Cd 226.502 | 5.3292 | 5.3051 | 5.2923 |
| Co 228.615 | 10.4919 | 10.6262 | 10.6488 |
| Cr 267.716 | 10.7090 | 10.7150 | 10.6365 |
| Cu 324.754 | 21.7407 | 21.7508 | 21.5021 |
| Fe 271.441 | 53.5185 | 55.8593 | 58.5828 |
| K 766.491 | 1095.72 | 1098.71 | 1086.33 |
| Mg 279.078 | 524.726 | 527.308 | 521.685 |
| Mn 257.610 | 11.6893 | 11.7257 | 11.5880 |
| Mo 202.032 | 10.3132 | 10.2074 | 10.1759 |
| Na 330.237 | 1228.46 | 1008.39 | 1082.58 |
| Ni 231.604 | 42.1467 | 41.2136 | 41.9228 |
| Pb 220.353 | 9.5186 | 9.1021 | 7.5824 |
| Sb 206.834 | 19.3747 | 20.1673 | 22.4683 |
| Se 196.026 | 30.0914 | 18.8616 | 21.9396 |
| Sn 189.925 | 52.5984 | 56.3440 | 50.9531 |
| Sr 216.596 | 10.4402 | 10.5749 | 10.4386 |
| Ti 334.941 | 10.6439 | 10.6967 | 10.5191 |
| Tl 190.794 | 26.5201 | 28.4954 | 26.6752 |
| V 292.401 | 10.6701 | 10.5952 | 10.5879 |
| Zn 206.200 | 21.8731 | 23.0802 | 21.3221 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 11.0690 | ppb | 0.1945 | 1.8 | 916.606 |
| Al 308.215 | 210.291 | ppb | 0.9492 | 0.5 | 1924.63 |
| As 188.980 | 19.5888 | ppb | 0.7719 | 3.9 | 6.4420 |
| B 249.678 | 107.556 | ppb | 0.6524 | 0.6 | 1843.38 |
| Ba 389.178 | 10.3762 | ppb | 0.2884 | 2.8 | 162.243 |
| Be 313.042 | 4.3059 | ppb | 0.0239 | 0.6 | 7519.58 |
| Ca 370.602 | 541.2 | ppb | 4.810 | 0.9 | 1507 |
| Cd 226.502 | 5.3089 | ppb | 0.0187 | 0.4 | 245.009 |
| Co 228.615 | 10.5890 | ppb | 0.0848 | 0.8 | 126.792 |
| Cr 267.716 | 10.6868 | ppb | 0.0437 | 0.4 | 617.512 |
| Cu 324.754 | 21.6645 | ppb | 0.1408 | 0.6 | 1849.10 |
| Fe 271.441 | 55.9869 | ppb | 2.5346 | 4.5 | 99.0933 |
| K 766.491 | 1093.58 | ppb | 6.4625 | 0.6 | 49250.4 |
| Mg 279.078 | 524.573 | ppb | 2.8145 | 0.5 | 1448.52 |
| Mn 257.610 | 11.6677 | ppb | 0.0714 | 0.6 | 2208.31 |
| Mo 202.032 | 10.2322 | ppb | 0.0719 | 0.7 | 75.6163 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 1106.48 | ppb | 111.965 | 10.1 | 77.0862 |
| Ni 231.604 | 41.7610 | ppb | 0.4871 | 1.2 | 125.591 |
| Pb 220.353 | 8.7344 | ppb | 1.0191 | 11.7 | 25.6478 |
| Sb 206.834 | 20.6701 | ppb | 1.6069 | 7.8 | 27.1519 |
| Se 196.026 | 23.6309 | ppb | 5.8028 | 24.6 | 10.8133 |
| Sn 189.925 | 53.2985 | ppb | 2.7628 | 5.2 | 35.8862 |
| Sr 216.596 | 10.4846 | ppb | 0.0783 | 0.7 | 135.094 |
| Ti 334.941 | 10.6199 | ppb | 0.0912 | 0.9 | 3092.49 |
| Tl 190.794 | 27.2302 | ppb | 1.0984 | 4.0 | 21.6452 |
| V 292.401 | 10.6177 | ppb | 0.0455 | 0.4 | 254.615 |
| Zn 206.200 | 22.0918 | ppb | 0.8992 | 4.1 | 25.2130 |

**mb 680-354145/1-a (Samp)** **10/20/2014, 6:04:13 PM** **Rack 1, Tube 31**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0886u | 0.2269 | -0.0444u |
| Al 308.215 | 6.0927 | 6.9135 | 5.8417 |
| As 188.980 | -1.4549u | -2.7189u | -2.8526u |
| B 249.678 | 5.8159 | 5.6774 | 5.2017 |
| Ba 389.178 | -0.4519u | -0.1582u | -0.6084u |
| Be 313.042 | 0.0101 | 0.0122 | 0.0144 |
| Ca 370.602 | 9.647 | 7.683 | 2.203 |
| Cd 226.502 | -0.0238u | 0.0609 | 0.0512 |
| Co 228.615 | -0.0115u | -0.2038u | 0.4398 |
| Cr 267.716 | 0.2872 | 0.3846 | 0.3124 |
| Cu 324.754 | -0.4498u | -0.4383u | -0.0226u |
| Fe 271.441 | 7.8776 | 2.2273 | 7.5499 |
| K 766.491 | 2.2666 | 2.3005 | 2.1540 |
| Mg 279.078 | 1.2657 | -0.9523u | 0.0258 |
| Mn 257.610 | 0.0564 | 0.0526 | 0.0730 |
| Mo 202.032 | 0.2859 | -0.2115u | 0.7598 |
| Na 330.237 | 207.379 | 180.575 | 129.850 |
| Ni 231.604 | -1.0905u | -0.2589u | -0.1914u |
| Pb 220.353 | -0.2720u | -1.2446u | 0.2958 |
| Sb 206.834 | -0.1580u | 0.8732 | 2.9536 |
| Se 196.026 | 1.4862 | 1.4869 | 4.4349 |
| Sn 189.925 | -1.4967u | -3.2163u | -3.1905u |
| Sr 216.596 | 0.0228 | -0.1710u | 0.0359 |
| Ti 334.941 | 0.0308 | 0.0175 | 0.0372 |
| Tl 190.794 | -4.4771u | -1.8683u | -1.5536u |
| V 292.401 | -0.1605u | -0.1711u | -0.0189u |
| Zn 206.200 | 4.7722 | 3.9223 | 5.2283 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0313 | ppb | 0.1708 | 545.4 | -16.4382 |
| Al 308.215 | 6.2827 | ppb | 0.5606 | 8.9 | 534.350 |
| As 188.980 | -2.3421 | ppb | 0.7713 | 32.9 | -8.3498 |
| B 249.678 | 5.5650 | ppb | 0.3221 | 5.8 | 131.956 |
| Ba 389.178 | -0.4062 | ppb | 0.2285 | 56.3 | -76.7348 |
| Be 313.042 | 0.0122 | ppb | 0.0022 | 17.9 | -256.580 |
| Ca 370.602 | 6.511 | ppb | 3.858 | 59.3 | 38.53 |
| Cd 226.502 | 0.0294 | ppb | 0.0463 | 157.5 | 17.9404 |
| Co 228.615 | 0.0748 | ppb | 0.3304 | 441.5 | 5.3225 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 0.3281 | ppb | 0.0506 | 15.4 | 52.4592 |
| Cu 324.754 | -0.3036 | ppb | 0.2434 | 80.2 | 222.085 |
| Fe 271.441 | 5.8849 | ppb | 3.1719 | 53.9 | 18.2480 |
| K 766.491 | 2.2404 | ppb | 0.0767 | 3.4 | 298.397 |
| Mg 279.078 | 0.1131 | ppb | 1.1116 | 983.1 | 22.5519 |
| Mn 257.610 | 0.0607 | ppb | 0.0109 | 17.9 | 43.1723 |
| Mo 202.032 | 0.2780 | ppb | 0.4857 | 174.7 | 7.4408 |
| Na 330.237 | 172.601 | ppb | 39.3749 | 22.8 | 33.4568 |
| Ni 231.604 | -0.5136 | ppb | 0.5008 | 97.5 | -6.4602 |
| Pb 220.353 | -0.4069 | ppb | 0.7790 | 191.4 | 11.1222 |
| Sb 206.834 | 1.2229 | ppb | 1.5850 | 129.6 | -0.7334 |
| Se 196.026 | 2.4693 | ppb | 1.7022 | 68.9 | 0.9364 |
| Sn 189.925 | -2.6345 | ppb | 0.9854 | 37.4 | -6.6613 |
| Sr 216.596 | -0.0374 | ppb | 0.1158 | 309.4 | 5.1243 |
| Ti 334.941 | 0.0285 | ppb | 0.0100 | 35.2 | -37.9447 |
| Tl 190.794 | -2.6330 | ppb | 1.6048 | 60.9 | -11.1994 |
| V 292.401 | -0.1169 | ppb | 0.0850 | 72.7 | -16.4585 |
| Zn 206.200 | 4.6410 | ppb | 0.6628 | 14.3 | 6.1034 |

**lcs 680-354145/2-a (Samp)** **10/20/2014, 6:08:29 PM** **Rack 1, Tube 32**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 51.7543 | 50.9601 | 51.3222 |
| Al 308.215 | 4806.43 | 4768.69 | 4813.01 |
| As 188.980 | 98.7848 | 100.723 | 100.904 |
| B 249.678 | 196.602 | 194.932 | 198.004 |
| Ba 389.178 | 99.7333 | 98.9119 | 99.4635 |
| Be 313.042 | 51.1169 | 50.6110 | 50.9410 |
| Ca 370.602 | 5107 | 5044 | 5064 |
| Cd 226.502 | 49.4572 | 49.0866 | 49.6718 |
| Co 228.615 | 50.7581 | 49.8248 | 50.7404 |
| Cr 267.716 | 103.383 | 102.268 | 103.381 |
| Cu 324.754 | 102.739 | 100.519 | 103.590 |
| Fe 271.441 | 4966.37 | 4906.81 | 4950.00 |
| K 766.491 | 4955.82 | 4924.94 | 4978.70 |
| Mg 279.078 | 4809.63 | 4754.17 | 4799.04 |
| Mn 257.610 | 536.495 | 530.141 | 532.763 |
| Mo 202.032 | 100.852 | 100.330 | 100.435 |
| Na 330.237 | 4643.18 | 4684.20 | 4592.83 |
| Ni 231.604 | 100.226 | 96.6989 | 98.9419 |
| Pb 220.353 | 495.860 | 489.067 | 495.961 |
| Sb 206.834 | 50.4326 | 49.9485 | 47.9520 |
| Se 196.026 | 98.6827 | 95.7492 | 98.6333 |
| Sn 189.925 | 194.967 | 195.103 | 193.467 |
| Sr 216.596 | 98.0508 | 97.3659 | 98.3275 |
| Ti 334.941 | 101.457 | 100.529 | 101.375 |
| Tl 190.794 | 37.5329 | 40.5355 | 40.1270 |
| V 292.401 | 102.849 | 102.133 | 102.101 |
| Zn 206.200 | 105.366 | 102.106 | 102.658 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 51.3455 | ppb | 0.3976 | 0.8 | 4321.31 |
| Al 308.215 | 4796.04 | ppb | 23.9146 | 0.5 | 33161.2 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 100.137 | ppb | 1.1748 | 1.2 | 60.7633 |
| B 249.678 | 196.513 | ppb | 1.5383 | 0.8 | 3324.96 |
| Ba 389.178 | 99.3696 | ppb | 0.4186 | 0.4 | 2137.04 |
| Be 313.042 | 50.8896 | ppb | 0.2568 | 0.5 | 91887.1 |
| Ca 370.602 | 5072 | ppb | 32.12 | 0.6 | 13903 |
| Cd 226.502 | 49.4052 | ppb | 0.2960 | 0.6 | 2158.52 |
| Co 228.615 | 50.4411 | ppb | 0.5338 | 1.1 | 587.306 |
| Cr 267.716 | 103.010 | ppb | 0.6433 | 0.6 | 5657.75 |
| Cu 324.754 | 102.282 | ppb | 1.5856 | 1.6 | 7823.33 |
| Fe 271.441 | 4941.06 | ppb | 30.7719 | 0.6 | 7849.48 |
| K 766.491 | 4953.15 | ppb | 26.9825 | 0.5 | 222370 |
| Mg 279.078 | 4787.61 | ppb | 29.4453 | 0.6 | 13029.8 |
| Mn 257.610 | 533.133 | ppb | 3.1929 | 0.6 | 99361.2 |
| Mo 202.032 | 100.539 | ppb | 0.2763 | 0.3 | 693.918 |
| Na 330.237 | 4640.07 | ppb | 45.7640 | 1.0 | 240.707 |
| Ni 231.604 | 98.6222 | ppb | 1.7851 | 1.8 | 303.560 |
| Pb 220.353 | 493.629 | ppb | 3.9517 | 0.8 | 797.007 |
| Sb 206.834 | 49.4444 | ppb | 1.3149 | 2.7 | 68.1770 |
| Se 196.026 | 97.6884 | ppb | 1.6796 | 1.7 | 45.5532 |
| Sn 189.925 | 194.513 | ppb | 0.9077 | 0.5 | 143.307 |
| Sr 216.596 | 97.9147 | ppb | 0.4950 | 0.5 | 1228.87 |
| Ti 334.941 | 101.120 | ppb | 0.5140 | 0.5 | 29841.6 |
| Tl 190.794 | 39.3985 | ppb | 1.6285 | 4.1 | 34.5841 |
| V 292.401 | 102.361 | ppb | 0.4225 | 0.4 | 2571.95 |
| Zn 206.200 | 103.377 | ppb | 1.7444 | 1.7 | 113.872 |

**680-106295-a-1-a (Samp)** **10/20/2014, 6:12:45 PM** **Rack 1, Tube 33**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 1.9833 | 1.8063 | 1.9177 |
| Al 308.215 | 78.4796 | 77.5147 | 78.1563 |
| As 188.980 | -2.2851u | 4.5571 | -2.1028u |
| B 249.678 | 33.1222 | 33.7409 | 33.1265 |
| Ba 389.178 | 25.4623 | 25.1565 | 26.1191 |
| Be 313.042 | -0.0055u | -0.0090u | -0.0069u |
| Ca 370.602 | 14123 | 14171 | 14151 |
| Cd 226.502 | -0.3425u | -0.3150u | -0.2310u |
| Co 228.615 | -1.1190u | -0.4634u | -0.2296u |
| Cr 267.716 | 0.6324 | 0.4332 | 0.4369 |
| Cu 324.754 | 4.7680 | 4.9018 | 4.7555 |
| Fe 271.441 | 870.219 | 868.347 | 868.500 |
| K 766.491 | 3554.50 | 3560.68 | 3557.80 |
| Mg 279.078 | 816.795 | 813.184 | 817.257 |
| Mn 257.610 | 28.4904 | 28.4519 | 28.4346 |
| Mo 202.032 | 0.4172 | -0.1190u | 0.4073 |
| Na 330.237 | 6219.15 | 6003.99 | 6029.43 |
| Ni 231.604 | 2.5537 | 2.8837 | 4.1475 |
| Pb 220.353 | -0.3468u | 0.6256 | -0.4769u |
| Sb 206.834 | 0.7374 | 0.9308 | -3.0198u |
| Se 196.026 | -0.6372u | -3.3183u | 4.1437 |
| Sn 189.925 | -0.2061u | 0.7431 | -0.7840u |
| Sr 216.596 | 147.576 | 146.791 | 147.057 |
| Ti 334.941 | 0.4406 | 0.4175 | 0.4524 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -2.4672u | -4.1912u | -2.9081u |
| V 292.401 | -0.0249u | -0.4009u | -0.5502u |
| Zn 206.200 | 18.3981 | 15.2190 | 18.0929 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 1.9024 | ppb | 0.0894 | 4.7 | 136.850 |
| Al 308.215 | 78.0502 | ppb | 0.4911 | 0.6 | 1024.31 |
| As 188.980 | 0.0564 | ppb | 3.8988 | 6913.2 | -6.7369 |
| B 249.678 | 33.3299 | ppb | 0.3560 | 1.1 | 595.788 |
| Ba 389.178 | 25.5793 | ppb | 0.4918 | 1.9 | 498.811 |
| Be 313.042 | -0.0071 | ppb | 0.0018 | 24.7 | -287.898 |
| Ca 370.602 | 14149 | ppb | 24.14 | 0.2 | 38743 |
| Cd 226.502 | -0.2962 | ppb | 0.0581 | 19.6 | 7.1534 |
| Co 228.615 | -0.6040 | ppb | 0.4611 | 76.3 | -2.4533 |
| Cr 267.716 | 0.5008 | ppb | 0.1140 | 22.8 | 62.5732 |
| Cu 324.754 | 4.8084 | ppb | 0.0811 | 1.7 | 601.004 |
| Fe 271.441 | 869.022 | ppb | 1.0394 | 0.1 | 1386.57 |
| K 766.491 | 3557.66 | ppb | 3.0935 | 0.1 | 159776 |
| Mg 279.078 | 815.745 | ppb | 2.2300 | 0.3 | 2240.09 |
| Mn 257.610 | 28.4590 | ppb | 0.0286 | 0.1 | 5339.42 |
| Mo 202.032 | 0.2352 | ppb | 0.3068 | 130.4 | 7.1067 |
| Na 330.237 | 6084.19 | ppb | 117.569 | 1.9 | 312.137 |
| Ni 231.604 | 3.1950 | ppb | 0.8413 | 26.3 | 5.2012 |
| Pb 220.353 | -0.0660 | ppb | 0.6025 | 912.5 | 11.7271 |
| Sb 206.834 | -0.4505 | ppb | 2.2271 | 494.3 | -3.1038 |
| Se 196.026 | 0.0627 | ppb | 3.7799 | 6026.5 | -0.1682 |
| Sn 189.925 | -0.0823 | ppb | 0.7710 | 936.6 | -4.7178 |
| Sr 216.596 | 147.141 | ppb | 0.3994 | 0.3 | 1844.29 |
| Ti 334.941 | 0.4368 | ppb | 0.0177 | 4.1 | 83.7139 |
| Tl 190.794 | -3.1888 | ppb | 0.8956 | 28.1 | -11.9139 |
| V 292.401 | -0.3254 | ppb | 0.2707 | 83.2 | -21.4864 |
| Zn 206.200 | 17.2367 | ppb | 1.7540 | 10.2 | 19.8807 |

**680-106295-a-1-aSD (Samp)** **10/20/2014, 6:17:02 PM** **Rack 1, Tube 34**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.5213 | 0.2782 | 0.6013 |
| Al 308.215 | 17.9802 | 17.9608 | 17.4861 |
| As 188.980 | -1.0997u | -0.6067u | -1.1699u |
| B 249.678 | 9.1460 | 8.8933 | 9.2643 |
| Ba 389.178 | 5.3098 | 4.9896 | 4.8906 |
| Be 313.042 | 0.0074 | 0.0087 | 0.0047 |
| Ca 370.602 | 2992 | 2935 | 2871 |
| Cd 226.502 | -0.1423u | -0.0929u | -0.1135u |
| Co 228.615 | -0.1238u | 0.2674 | 0.4513 |
| Cr 267.716 | -0.0034u | 0.0232 | 0.0448 |
| Cu 324.754 | 0.9496 | 0.6986 | 0.6642 |
| Fe 271.441 | 185.640 | 184.856 | 183.547 |
| K 766.491 | 782.121 | 763.944 | 747.591 |
| Mg 279.078 | 180.871 | 176.953 | 174.918 |
| Mn 257.610 | 6.1069 | 5.9403 | 5.8655 |
| Mo 202.032 | 0.2604 | 0.4142 | 0.3448 |
| Na 330.237 | 1379.51 | 1246.48 | 1327.72 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 0.4968 | 0.6412 | -0.1378u |
| Pb 220.353 | 0.3788 | -1.9944u | -1.8745u |
| Sb 206.834 | 0.2399 | -0.6613u | -0.9369u |
| Se 196.026 | 3.4414 | 4.8495 | 5.0862 |
| Sn 189.925 | -0.7913u | 1.1789 | -2.9734u |
| Sr 216.596 | 31.3774 | 30.7644 | 30.2127 |
| Ti 334.941 | 0.1238 | 0.0738 | 0.0979 |
| Tl 190.794 | 0.9307 | -1.0551u | 1.9895 |
| V 292.401 | -0.1062u | -0.3578u | -0.2770u |
| Zn 206.200 | 3.9850 | 4.1404 | 5.9601 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.4669 | ppb | 0.1683 | 36.0 | 19.3531 |
| Al 308.215 | 17.8090 | ppb | 0.2798 | 1.6 | 613.111 |
| As 188.980 | -0.9588 | ppb | 0.3069 | 32.0 | -7.4178 |
| B 249.678 | 9.1012 | ppb | 0.1895 | 2.1 | 190.853 |
| Ba 389.178 | 5.0633 | ppb | 0.2191 | 4.3 | 44.4136 |
| Be 313.042 | 0.0069 | ppb | 0.0020 | 29.2 | -265.435 |
| Ca 370.602 | 2933 | ppb | 60.87 | 2.1 | 8047 |
| Cd 226.502 | -0.1163 | ppb | 0.0248 | 21.4 | 12.3391 |
| Co 228.615 | 0.1983 | ppb | 0.2937 | 148.1 | 6.7597 |
| Cr 267.716 | 0.0215 | ppb | 0.0242 | 112.2 | 35.8807 |
| Cu 324.754 | 0.7708 | ppb | 0.1558 | 20.2 | 301.724 |
| Fe 271.441 | 184.681 | ppb | 1.0574 | 0.6 | 301.714 |
| K 766.491 | 764.552 | ppb | 17.2731 | 2.3 | 34491.7 |
| Mg 279.078 | 177.581 | ppb | 3.0257 | 1.7 | 505.057 |
| Mn 257.610 | 5.9709 | ppb | 0.1236 | 2.1 | 1145.46 |
| Mo 202.032 | 0.3398 | ppb | 0.0770 | 22.7 | 7.8556 |
| Na 330.237 | 1317.90 | ppb | 67.0549 | 5.1 | 87.5124 |
| Ni 231.604 | 0.3334 | ppb | 0.4144 | 124.3 | -3.7991 |
| Pb 220.353 | -1.1634 | ppb | 1.3369 | 114.9 | 9.9318 |
| Sb 206.834 | -0.4528 | ppb | 0.6155 | 135.9 | -3.1380 |
| Se 196.026 | 4.4590 | ppb | 0.8892 | 19.9 | 1.8685 |
| Sn 189.925 | -0.8619 | ppb | 2.0770 | 241.0 | -5.3125 |
| Sr 216.596 | 30.7848 | ppb | 0.5826 | 1.9 | 390.275 |
| Ti 334.941 | 0.0985 | ppb | 0.0250 | 25.4 | -17.0283 |
| Tl 190.794 | 0.6217 | ppb | 1.5456 | 248.6 | -7.6424 |
| V 292.401 | -0.2470 | ppb | 0.1285 | 52.0 | -19.7100 |
| Zn 206.200 | 4.6952 | ppb | 1.0982 | 23.4 | 6.1557 |

**680-106295-a-1-aPDS (Samp)** **10/20/2014, 6:21:19 PM** **Rack 1, Tube 35**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 100.743 | 101.021 | 100.644 |
| Al 308.215 | 1021.01 | 1020.45 | 1024.02 |
| As 188.980 | 98.1587 | 97.0168 | 98.5088 |
| B 249.678 | 219.796 | 221.434 | 221.181 |
| Ba 389.178 | 107.999 | 108.510 | 108.375 |
| Be 313.042 | 98.8431 | 98.8956 | 99.0222 |
| Ca 370.602 | 23884 | 23901 | 23982 |
| Cd 226.502 | 96.1600 | 95.9580 | 95.5881 |
| Co 228.615 | 98.9101 | 99.4800 | 99.2542 |
| Cr 267.716 | 101.607 | 101.623 | 101.793 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 106.301 | 105.197 | 105.386 |
| Fe 271.441 | 10632.8 | 10646.3 | 10643.4 |
| K 766.491 | 13389.2 | 13388.4 | 13399.7 |
| Mg 279.078 | 10284.5 | 10274.2 | 10294.6 |
| Mn 257.610 | 1075.77 | 1075.76 | 1077.54 |
| Mo 202.032 | 99.2070 | 98.8861 | 99.3847 |
| Na 330.237 | 14311.8 | 14129.5 | 14111.7 |
| Ni 231.604 | 100.708 | 101.730 | 102.490 |
| Pb 220.353 | 98.4059 | 97.7054 | 99.0998 |
| Sb 206.834 | 94.6596 | 93.0061 | 97.7330 |
| Se 196.026 | 92.0013 | 98.1671 | 98.3573 |
| Sn 189.925 | 94.4693 | 96.6809 | 95.6061 |
| Sr 216.596 | 243.237 | 243.987 | 244.524 |
| Ti 334.941 | 99.5929 | 99.6609 | 99.7916 |
| Tl 190.794 | 21.3434 | 15.7983 | 18.9482 |
| V 292.401 | 99.6477 | 99.9337 | 100.255 |
| Zn 206.200 | 108.959 | 111.877 | 112.052 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 100.803 | ppb | 0.1958 | 0.2 | 8500.01 |
| Al 308.215 | 1021.82 | ppb | 1.9200 | 0.2 | 7480.23 |
| As 188.980 | 97.8948 | ppb | 0.7802 | 0.8 | 59.1735 |
| B 249.678 | 220.804 | ppb | 0.8816 | 0.4 | 3719.97 |
| Ba 389.178 | 108.295 | ppb | 0.2647 | 0.2 | 2344.86 |
| Be 313.042 | 98.9203 | ppb | 0.0921 | 0.1 | 178887 |
| Ca 370.602 | 23922 | ppb | 52.68 | 0.2 | 65453 |
| Cd 226.502 | 95.9020 | ppb | 0.2900 | 0.3 | 4178.18 |
| Co 228.615 | 99.2148 | ppb | 0.2870 | 0.3 | 1151.52 |
| Cr 267.716 | 101.674 | ppb | 0.1034 | 0.1 | 5589.92 |
| Cu 324.754 | 105.628 | ppb | 0.5902 | 0.6 | 8073.53 |
| Fe 271.441 | 10640.8 | ppb | 7.1381 | 0.1 | 16891.5 |
| K 766.491 | 13392.5 | ppb | 6.2905 | 0.0 | 600914 |
| Mg 279.078 | 10284.4 | ppb | 10.2205 | 0.1 | 27968.9 |
| Mn 257.610 | 1076.36 | ppb | 1.0234 | 0.1 | 200577 |
| Mo 202.032 | 99.1592 | ppb | 0.2527 | 0.3 | 684.200 |
| Na 330.237 | 14184.3 | ppb | 110.742 | 0.8 | 689.934 |
| Ni 231.604 | 101.643 | ppb | 0.8939 | 0.9 | 313.364 |
| Pb 220.353 | 98.4037 | ppb | 0.6972 | 0.7 | 169.039 |
| Sb 206.834 | 95.1329 | ppb | 2.3987 | 2.5 | 133.997 |
| Se 196.026 | 96.1752 | ppb | 3.6160 | 3.8 | 45.0508 |
| Sn 189.925 | 95.5854 | ppb | 1.1059 | 1.2 | 68.0579 |
| Sr 216.596 | 243.916 | ppb | 0.6462 | 0.3 | 3061.20 |
| Ti 334.941 | 99.6818 | ppb | 0.1010 | 0.1 | 29426.0 |
| Tl 190.794 | 18.6966 | ppb | 2.7811 | 14.9 | 11.4839 |
| V 292.401 | 99.9455 | ppb | 0.3039 | 0.3 | 2512.72 |
| Zn 206.200 | 110.963 | ppb | 1.7374 | 1.6 | 121.932 |

**680-106295-a-1-b ms (Samp)** **10/20/2014, 6:25:36 PM** **Rack 1, Tube 36**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 51.9542 | 51.6849 | 51.3788 |
| Al 308.215 | 4767.85 | 4772.10 | 4765.17 |
| As 188.980 | 97.2845 | 99.2426 | 95.8671 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 218.873 | 218.532 | 218.836 |
| Ba 389.178 | 121.028 | 121.314 | 121.501 |
| Be 313.042 | 49.9643 | 49.9878 | 49.8101 |
| Ca 370.602 | 18645 | 18599 | 18458 |
| Cd 226.502 | 48.3288 | 47.9322 | 48.0362 |
| Co 228.615 | 49.4798 | 49.3079 | 48.7344 |
| Cr 267.716 | 100.739 | 100.645 | 100.493 |
| Cu 324.754 | 105.506 | 105.312 | 104.288 |
| Fe 271.441 | 5675.44 | 5660.27 | 5663.69 |
| K 766.491 | 8302.10 | 8280.56 | 8255.63 |
| Mg 279.078 | 5455.03 | 5466.41 | 5448.85 |
| Mn 257.610 | 548.545 | 546.325 | 542.536 |
| Mo 202.032 | 97.9395 | 97.9526 | 98.0475 |
| Na 330.237 | 10412.5 | 10546.4 | 10482.3 |
| Ni 231.604 | 99.2085 | 99.2918 | 98.9256 |
| Pb 220.353 | 478.430 | 483.649 | 477.015 |
| Sb 206.834 | 46.4299 | 48.0927 | 48.8606 |
| Se 196.026 | 97.1179 | 104.255 | 86.8076 |
| Sn 189.925 | 190.435 | 191.406 | 185.914 |
| Sr 216.596 | 237.842 | 237.754 | 236.036 |
| Ti 334.941 | 99.1140 | 99.2268 | 98.9191 |
| Tl 190.794 | 38.1500 | 38.8032 | 41.7246 |
| V 292.401 | 100.112 | 99.7081 | 99.1651 |
| Zn 206.200 | 112.383 | 115.121 | 111.792 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 51.6726 | ppb | 0.2879 | 0.6 | 4344.21 |
| Al 308.215 | 4768.37 | ppb | 3.4946 | 0.1 | 32973.8 |
| As 188.980 | 97.4647 | ppb | 1.6949 | 1.7 | 58.9563 |
| B 249.678 | 218.747 | ppb | 0.1869 | 0.1 | 3696.31 |
| Ba 389.178 | 121.281 | ppb | 0.2381 | 0.2 | 2622.33 |
| Be 313.042 | 49.9207 | ppb | 0.0965 | 0.2 | 90136.0 |
| Ca 370.602 | 18567 | ppb | 97.36 | 0.5 | 50838 |
| Cd 226.502 | 48.0991 | ppb | 0.2057 | 0.4 | 2105.09 |
| Co 228.615 | 49.1740 | ppb | 0.3903 | 0.8 | 572.731 |
| Cr 267.716 | 100.626 | ppb | 0.1240 | 0.1 | 5528.24 |
| Cu 324.754 | 105.035 | ppb | 0.6542 | 0.6 | 8027.45 |
| Fe 271.441 | 5666.47 | ppb | 7.9574 | 0.1 | 8999.36 |
| K 766.491 | 8279.43 | ppb | 23.2551 | 0.3 | 371570 |
| Mg 279.078 | 5456.76 | ppb | 8.9041 | 0.2 | 14849.3 |
| Mn 257.610 | 545.802 | ppb | 3.0389 | 0.6 | 101727 |
| Mo 202.032 | 97.9799 | ppb | 0.0589 | 0.1 | 676.357 |
| Na 330.237 | 10480.4 | ppb | 66.9458 | 0.6 | 516.104 |
| Ni 231.604 | 99.1420 | ppb | 0.1919 | 0.2 | 305.249 |
| Pb 220.353 | 479.698 | ppb | 3.4941 | 0.7 | 774.907 |
| Sb 206.834 | 47.7944 | ppb | 1.2425 | 2.6 | 65.8445 |
| Se 196.026 | 96.0603 | ppb | 8.7718 | 9.1 | 44.8067 |
| Sn 189.925 | 189.252 | ppb | 2.9309 | 1.5 | 139.307 |
| Sr 216.596 | 237.210 | ppb | 1.0182 | 0.4 | 2969.62 |
| Ti 334.941 | 99.0866 | ppb | 0.1557 | 0.2 | 29241.5 |
| Tl 190.794 | 39.5593 | ppb | 1.9034 | 4.8 | 34.6705 |
| V 292.401 | 99.6618 | ppb | 0.4753 | 0.5 | 2503.94 |
| Zn 206.200 | 113.098 | ppb | 1.7760 | 1.6 | 124.509 |

**Cont Calib Verif (CCV)** **10/20/2014, 6:29:52 PM** **Rack 1, Tube 37**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 504.492 | 502.215 | 503.191 |
| Al 308.215 | 4828.97 | 4832.66 | 4823.18 |
| As 188.980 | 470.932 | 486.016 | 474.593 |
| B 249.678 | 488.277 | 492.241 | 491.619 |
| Ba 389.178 | 4960.54 | 4974.39 | 4967.82 |
| Be 313.042 | 501.061 | 500.575 | 497.916 |
| Ca 370.602 | 5127 | 5154 | 5123 |
| Cd 226.502 | 492.950 | 494.728 | 493.422 |
| Co 228.615 | 506.755 | 508.300 | 506.719 |
| Cr 267.716 | 5057.33 | 5060.34 | 5055.05 |
| Cu 324.754 | 5026.22 | 5060.14 | 5083.82 |
| Fe 271.441 | 4925.43 | 4918.19 | 4906.19 |
| K 766.491 | 10042.0 | 10073.9 | 10044.9 |
| Mg 279.078 | 4914.51 | 4918.59 | 4906.23 |
| Mn 257.610 | 5227.56 | 5244.67 | 5199.97 |
| Mo 202.032 | 495.743 | 498.851 | 498.137 |
| Na 330.237 | 7285.90 | 7395.66 | 7371.53 |
| Ni 231.604 | 2520.22 | 2519.32 | 2522.09 |
| Pb 220.353 | 503.815 | 496.991 | 496.937 |
| Sb 206.834 | 948.623 | 949.938 | 961.946 |
| Se 196.026 | 4916.00 | 4936.85 | 4920.50 |
| Sn 189.925 | 4952.03 | 4918.91 | 4955.10 |
| Sr 216.596 | 2474.85 | 2500.18 | 2477.45 |
| Ti 334.941 | 492.146 | 493.283 | 492.244 |
| Tl 190.794 | 5077.11 | 5115.76 | 5069.66 |
| V 292.401 | 5026.52 | 5038.29 | 5022.97 |
| Zn 206.200 | 2501.39 | 2506.61 | 2500.03 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 503.299 | ppb | 1.1425 | 0.2 | 42493.8 | 100.65981 |
| Al 308.215 | 4828.27 | ppb | 4.7765 | 0.1 | 33888.3 | 96.56540 |
| As 188.980 | 477.180 | ppb | 7.8675 | 1.6 | 314.973 | 95.43605 |
| B 249.678 | 490.712 | ppb | 2.1322 | 0.4 | 8274.71 | 98.14249 |
| Ba 389.178 | 4967.58 | ppb | 6.9297 | 0.1 | 109678 | 99.35168 |
| Be 313.042 | 499.850 | ppb | 1.6931 | 0.3 | 905273 | 99.97008 |
| Ca 370.602 | 5135 | ppb | 17.02 | 0.3 | 14389 | 102.69148 |
| Cd 226.502 | 493.700 | ppb | 0.9209 | 0.2 | 21252.3 | 98.73999 |
| Co 228.615 | 507.258 | ppb | 0.9026 | 0.2 | 5872.81 | 101.45152 |
| Cr 267.716 | 5057.57 | ppb | 2.6496 | 0.1 | 275909 | 101.15144 |
| Cu 324.754 | 5056.73 | ppb | 28.9521 | 0.6 | 374646 | 101.13456 |
| Fe 271.441 | 4916.60 | ppb | 9.7174 | 0.2 | 7915.63 | 98.33208 |
| K 766.491 | 10053.6 | ppb | 17.6274 | 0.2 | 451149 | 100.53574 |
| Mg 279.078 | 4913.11 | ppb | 6.2971 | 0.1 | 13277.0 | 98.26220 |
| Mn 257.610 | 5224.06 | ppb | 22.5534 | 0.4 | 972954 | 104.48130 |
| Mo 202.032 | 497.577 | ppb | 1.6275 | 0.3 | 3408.45 | 99.51537 |
| Na 330.237 | 7351.03 | ppb | 57.6835 | 0.8 | 309.921 | 98.01375 |
| Ni 231.604 | 2520.54 | ppb | 1.4130 | 0.1 | 7868.92 | 100.82156 |
| Pb 220.353 | 499.248 | ppb | 3.9555 | 0.8 | 810.031 | 99.84959 |
| Sb 206.834 | 953.502 | ppb | 7.3422 | 0.8 | 1417.07 | 95.35024 |
| Se 196.026 | 4924.45 | ppb | 10.9723 | 0.2 | 2298.69 | 98.48901 |
| Sn 189.925 | 4942.01 | ppb | 20.0654 | 0.4 | 3754.65 | 98.84026 |
| Sr 216.596 | 2484.16 | ppb | 13.9308 | 0.6 | 30872.0 | 99.36635 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ti 334.941 | 492.558 | ppb | 0.6301 | 0.1 | 145504 | 98.51160 |
| Tl 190.794 | 5087.51 | ppb | 24.7469 | 0.5 | 5594.36 | 101.75017 |
| V 292.401 | 5029.26 | ppb | 8.0179 | 0.2 | 127550 | 100.58517 |
| Zn 206.200 | 2502.68 | ppb | 3.4695 | 0.1 | 2730.67 | 100.10714 |

**Cont Calib Blank (CCB)** **10/20/2014, 6:34:07 PM** **Rack 1, Tube 38**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0692u | -0.0794u | 0.1402 |
| Al 308.215 | 4.1546 | 6.4171 | 1.5234 |
| As 188.980 | 0.4347 | -0.1306u | 1.3082 |
| B 249.678 | 10.5558 | 9.4023 | 8.6856 |
| Ba 389.178 | 0.1033 | 0.6290 | 0.2909 |
| Be 313.042 | 0.0523 | 0.0594 | 0.0510 |
| Ca 370.602 | 0.9102 | 1.184 | 1.723 |
| Cd 226.502 | -0.0510u | -0.0176u | 0.0711 |
| Co 228.615 | 0.2840 | 0.4785 | 0.8229 |
| Cr 267.716 | 0.3830 | 0.4462 | 0.5906 |
| Cu 324.754 | 0.4458 | 0.1186 | 0.3966 |
| Fe 271.441 | 7.5442 | 7.2677 | 3.2762 |
| K 766.491 | 2.4605 | 2.4776 | 2.6526 |
| Mg 279.078 | 1.9076 | 0.2831 | 3.7917 |
| Mn 257.610 | 0.6363 | 0.6331 | 0.6072 |
| Mo 202.032 | 0.3367 | -0.0597u | 0.0242 |
| Na 330.237 | 84.0255 | 19.8461 | 40.4809 |
| Ni 231.604 | 0.5196 | -0.0156u | 1.4032 |
| Pb 220.353 | -3.0730u | -1.4054u | -0.6928u |
| Sb 206.834 | 1.7671 | 0.7857 | 1.3923 |
| Se 196.026 | 3.7287 | 7.1403 | -0.4334u |
| Sn 189.925 | -1.0006u | 0.5464 | -1.8198u |
| Sr 216.596 | 0.4359 | 0.1507 | 0.3146 |
| Ti 334.941 | 0.0988 | 0.0937 | 0.1357 |
| Tl 190.794 | 3.3178 | 1.6568 | 0.4146 |
| V 292.401 | 0.3872 | 0.5653 | 0.5619 |
| Zn 206.200 | 0.8863 | 1.1365 | 0.3618 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | -0.0028 | ppb | 0.1240 | 4448.5 | -19.3308 | -0.00279 |
| Al 308.215 | 4.0317 | ppb | 2.4492 | 60.7 | 519.042 | 4.03168 |
| As 188.980 | 0.5374 | ppb | 0.7249 | 134.9 | -6.4074 | 0.53741 |
| B 249.678 | 9.5479 | ppb | 0.9436 | 9.9 | 198.773 | 9.54789 |
| Ba 389.178 | 0.3411 | ppb | 0.2664 | 78.1 | -60.2308 | 0.34106 |
| Be 313.042 | 0.0542 | ppb | 0.0045 | 8.3 | -180.432 | 0.05422 |
| Ca 370.602 | 1.272 | ppb | 0.4135 | 32.5 | 24.27 | 1.27224 |
| Cd 226.502 | 0.0008 | ppb | 0.0631 | 7436.4 | 16.7027 | 0.00085 |
| Co 228.615 | 0.5285 | ppb | 0.2729 | 51.6 | 10.5744 | 0.52847 |
| Cr 267.716 | 0.4733 | ppb | 0.1064 | 22.5 | 60.3784 | 0.47328 |
| Cu 324.754 | 0.3203 | ppb | 0.1764 | 55.1 | 268.268 | 0.32034 |
| Fe 271.441 | 6.0294 | ppb | 2.3883 | 39.6 | 18.5347 | 6.02938 |
| K 766.491 | 2.5303 | ppb | 0.1063 | 4.2 | 311.400 | 2.53026 |
| Mg 279.078 | 1.9941 | ppb | 1.7559 | 88.1 | 27.6556 | 1.99411 |
| Mn 257.610 | 0.6255 | ppb | 0.0159 | 2.5 | 148.364 | 0.62552 |
| Mo 202.032 | 0.1004 | ppb | 0.2089 | 208.2 | 6.2234 | 0.10036 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Na 330.237 | 48.1175 | ppb | 32.7641 | 68.1 | 27.6839 | 48.11749 |
| Ni 231.604 | 0.6357 | ppb | 0.7165 | 112.7 | -2.8709 | 0.63572 |
| Pb 220.353 | -1.7237 | ppb | 1.2216 | 70.9 | 9.0285 | -1.72371 |
| Sb 206.834 | 1.3150 | ppb | 0.4953 | 37.7 | -0.5944 | 1.31504 |
| Se 196.026 | 3.4785 | ppb | 3.7931 | 109.0 | 1.4073 | 3.47853 |
| Sn 189.925 | -0.7580 | ppb | 1.2016 | 158.5 | -5.2339 | -0.75801 |
| Sr 216.596 | 0.3004 | ppb | 0.1432 | 47.7 | 9.3082 | 0.30040 |
| Ti 334.941 | 0.1094 | ppb | 0.0229 | 21.0 | -14.0363 | 0.10938 |
| Tl 190.794 | 1.7964 | ppb | 1.4566 | 81.1 | -6.3265 | 1.79642 |
| V 292.401 | 0.5048 | ppb | 0.1018 | 20.2 | -0.6189 | 0.50483 |
| Zn 206.200 | 0.7949 | ppb | 0.3953 | 49.7 | 1.8838 | 0.79487 |

**680-106295-a-1-c mSD (Samp)** **10/20/2014, 6:38:22 PM** **Rack 1, Tube 39**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 49.2222 | 49.5742 | 50.0226 |
| Al 308.215 | 4726.36 | 4702.35 | 4740.56 |
| As 188.980 | 96.0421 | 95.0277 | 96.2187 |
| B 249.678 | 214.916 | 214.581 | 216.279 |
| Ba 389.178 | 119.373 | 120.201 | 118.399 |
| Be 313.042 | 48.9589 | 48.9634 | 49.1020 |
| Ca 370.602 | 18105 | 18137 | 18150 |
| Cd 226.502 | 47.5775 | 47.2091 | 47.6016 |
| Co 228.615 | 48.1411 | 49.0373 | 48.2814 |
| Cr 267.716 | 98.8982 | 98.8136 | 99.2212 |
| Cu 324.754 | 103.302 | 102.443 | 103.480 |
| Fe 271.441 | 5573.85 | 5561.96 | 5571.59 |
| K 766.491 | 8127.29 | 8130.91 | 8126.04 |
| Mg 279.078 | 5355.13 | 5379.36 | 5377.42 |
| Mn 257.610 | 534.622 | 535.544 | 536.578 |
| Mo 202.032 | 96.9787 | 96.5406 | 96.6462 |
| Na 330.237 | 10293.4 | 10099.8 | 10432.6 |
| Ni 231.604 | 98.8029 | 98.6184 | 100.522 |
| Pb 220.353 | 475.609 | 476.263 | 469.849 |
| Sb 206.834 | 47.2240 | 49.2969 | 46.3744 |
| Se 196.026 | 101.199 | 88.4040 | 100.415 |
| Sn 189.925 | 186.971 | 185.492 | 181.120 |
| Sr 216.596 | 233.026 | 233.503 | 233.276 |
| Ti 334.941 | 97.2989 | 97.2975 | 97.5210 |
| Tl 190.794 | 37.2136 | 39.4922 | 43.7890 |
| V 292.401 | 97.6805 | 97.7720 | 98.0039 |
| Zn 206.200 | 111.699 | 113.900 | 110.460 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 49.6063 | ppb | 0.4012 | 0.8 | 4169.57 |
| Al 308.215 | 4723.09 | ppb | 19.3144 | 0.4 | 32665.1 |
| As 188.980 | 95.7628 | ppb | 0.6427 | 0.7 | 57.8089 |
| B 249.678 | 215.258 | ppb | 0.8994 | 0.4 | 3638.01 |
| Ba 389.178 | 119.324 | ppb | 0.9024 | 0.8 | 2578.94 |
| Be 313.042 | 49.0081 | ppb | 0.0814 | 0.2 | 88483.0 |
| Ca 370.602 | 18131 | ppb | 23.49 | 0.1 | 49644 |
| Cd 226.502 | 47.4627 | ppb | 0.2200 | 0.5 | 2077.37 |
| Co 228.615 | 48.4866 | ppb | 0.4821 | 1.0 | 564.781 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 98.9776 | ppb | 0.2151 | 0.2 | 5438.25 |
| Cu 324.754 | 103.075 | ppb | 0.5547 | 0.5 | 7882.19 |
| Fe 271.441 | 5569.14 | ppb | 6.3138 | 0.1 | 8844.96 |
| K 766.491 | 8128.08 | ppb | 2.5255 | 0.0 | 364781 |
| Mg 279.078 | 5370.63 | ppb | 13.4614 | 0.3 | 14615.2 |
| Mn 257.610 | 535.581 | ppb | 0.9785 | 0.2 | 99822.7 |
| Mo 202.032 | 96.7218 | ppb | 0.2286 | 0.2 | 667.745 |
| Na 330.237 | 10275.3 | ppb | 167.167 | 1.6 | 506.467 |
| Ni 231.604 | 99.3145 | ppb | 1.0500 | 1.1 | 305.781 |
| Pb 220.353 | 473.907 | ppb | 3.5295 | 0.7 | 765.691 |
| Sb 206.834 | 47.6318 | ppb | 1.5033 | 3.2 | 65.6102 |
| Se 196.026 | 96.6727 | ppb | 7.1716 | 7.4 | 45.0891 |
| Sn 189.925 | 184.528 | ppb | 3.0422 | 1.6 | 135.713 |
| Sr 216.596 | 233.268 | ppb | 0.2384 | 0.1 | 2920.30 |
| Ti 334.941 | 97.3725 | ppb | 0.1286 | 0.1 | 28734.8 |
| Tl 190.794 | 40.1650 | ppb | 3.3389 | 8.3 | 35.3451 |
| V 292.401 | 97.8188 | ppb | 0.1667 | 0.2 | 2457.29 |
| Zn 206.200 | 112.019 | ppb | 1.7422 | 1.6 | 123.335 |

**280-60491-b-1-b (Samp)** **10/20/2014, 6:42:37 PM** **Rack 1, Tube 40**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0291u | -0.0331u | 0.2169 |
| Al 308.215 | 23.0821 | 21.5179 | 21.3115 |
| As 188.980 | -2.3771u | -4.8276u | -0.8528u |
| B 249.678 | 128.108 | 127.975 | 127.090 |
| Ba 389.178 | 341.336 | 342.064 | 341.140 |
| Be 313.042 | 0.0425 | 0.0450 | 0.0423 |
| Ca 370.602 | 2773 | 2768 | 2753 |
| Cd 226.502 | -0.1121u | -0.1326u | 0.0003u |
| Co 228.615 | -0.0749u | -0.3619u | 0.1153 |
| Cr 267.716 | 0.3829 | 0.4210 | 0.4063 |
| Cu 324.754 | 0.7036 | 0.7377 | 0.6922 |
| Fe 271.441 | 273.751 | 282.535 | 283.272 |
| K 766.491 | 2684.02 | 2684.53 | 2667.12 |
| Mg 279.078 | 512.698 | 513.365 | 513.355 |
| Mn 257.610 | 6.8855 | 6.9491 | 6.9318 |
| Mo 202.032 | 0.7125 | 1.2259 | 0.8065 |
| Na 330.237 | 662818x | 661439x | 664285x |
| Ni 231.604 | 1.4884 | 0.6800 | 1.3516 |
| Pb 220.353 | -0.1516u | 3.0619 | -0.2311u |
| Sb 206.834 | 2.3478 | -3.7245u | 2.7894 |
| Se 196.026 | 8.7270 | 9.4217 | 10.1888 |
| Sn 189.925 | -1.7360u | -2.7692u | -6.1976u |
| Sr 216.596 | 541.638 | 542.480 | 542.264 |
| Ti 334.941 | 0.2623 | 0.2624 | 0.2464 |
| Tl 190.794 | 0.3877 | 0.8460 | -0.3290u |
| V 292.401 | 0.4402 | 0.4830 | 0.2353 |
| Zn 206.200 | 5.0666 | 5.0770 | 5.2203 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0516b | ppb | 0.1432 | 277.7 | -32.9810 |
| Al 308.215 | 21.9705b | ppb | 0.9682 | 4.4 | 641.644 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | -2.6858b | ppb | 2.0053 | 74.7 | -8.5834 |
| B 249.678 | 127.724b | ppb | 0.5532 | 0.4 | 2180.97 |
| Ba 389.178 | 341.513b | ppb | 0.4866 | 0.1 | 7476.40 |
| Be 313.042 | 0.0433b | ppb | 0.0016 | 3.6 | -274.323 |
| Ca 370.602 | 2765b | ppb | 10.43 | 0.4 | 7586 |
| Cd 226.502 | -0.0815b | ppb | 0.0716 | 87.8 | 9.8846 |
| Co 228.615 | -0.1072b | ppb | 0.2402 | 224.2 | 3.2214 |
| Cr 267.716 | 0.4034b | ppb | 0.0192 | 4.8 | 70.2868 |
| Cu 324.754 | 0.7112b | ppb | 0.0236 | 3.3 | 297.375 |
| Fe 271.441 | 279.853b | ppb | 5.2973 | 1.9 | 452.581 |
| K 766.491 | 2678.56b | ppb | 9.9058 | 0.4 | 120344 |
| Mg 279.078 | 513.139b | ppb | 0.3820 | 0.1 | 1417.60 |
| Mn 257.610 | 6.9221b | ppb | 0.0329 | 0.5 | 1322.14 |
| Mo 202.032 | 0.9150b | ppb | 0.2734 | 29.9 | 11.7912 |
| Na 330.237 | 662848xb | ppb | 1423.42 | 0.2 | 31330.2 |
| Ni 231.604 | 1.1733b | ppb | 0.4327 | 36.9 | -1.1666 |
| Pb 220.353 | 0.8931b | ppb | 1.8787 | 210.4 | 13.2081 |
| Sb 206.834 | 0.4709b | ppb | 3.6400 | 773.0 | -1.8140 |
| Se 196.026 | 9.4458b | ppb | 0.7312 | 7.7 | 4.1967 |
| Sn 189.925 | -3.5676b | ppb | 2.3355 | 65.5 | -7.1534 |
| Sr 216.596 | 542.127b | ppb | 0.4374 | 0.1 | 6758.17 |
| Ti 334.941 | 0.2570b | ppb | 0.0092 | 3.6 | -24.5381 |
| Tl 190.794 | 0.3016b | ppb | 0.5922 | 196.4 | -8.0090 |
| V 292.401 | 0.3862b | ppb | 0.1324 | 34.3 | -8.6115 |
| Zn 206.200 | 5.1213b | ppb | 0.0859 | 1.7 | 6.6168 |

**280-60491-b-6-b (Samp)** **10/20/2014, 6:46:52 PM** **Rack 1, Tube 41**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0918u | -0.1112u | 0.0012u |
| Al 308.215 | 293.515 | 291.491 | 293.551 |
| As 188.980 | -1.5988u | 2.1006 | -4.9090u |
| B 249.678 | 135.173 | 135.386 | 135.181 |
| Ba 389.178 | 416.474 | 417.991 | 415.482 |
| Be 313.042 | 0.0437 | 0.0463 | 0.0481 |
| Ca 370.602 | 3212 | 3213 | 3219 |
| Cd 226.502 | -0.0506u | 0.0497u | -0.0842u |
| Co 228.615 | -0.0723u | 0.4168 | 0.5882 |
| Cr 267.716 | 0.5068 | 0.7245 | 0.6930 |
| Cu 324.754 | 0.7463 | 0.6946 | 0.8209 |
| Fe 271.441 | 371.287 | 364.807 | 372.345 |
| K 766.491 | 3908.55 | 3959.75 | 3953.73 |
| Mg 279.078 | 700.029 | 692.654 | 693.247 |
| Mn 257.610 | 13.9084 | 13.8463 | 13.9326 |
| Mo 202.032 | 0.1560 | 0.4349 | 0.5444 |
| Na 330.237 | 676946x | 674833x | 674147x |
| Ni 231.604 | -0.2984u | 0.4918 | 0.3244 |
| Pb 220.353 | -1.7316u | -1.8285u | 0.4683 |
| Sb 206.834 | 2.9120 | 1.5760 | 0.5593 |
| Se 196.026 | 5.9541 | 9.2234 | 11.7109 |
| Sn 189.925 | -6.5305u | 1.9272 | -4.3817u |
| Sr 216.596 | 534.496 | 532.594 | 533.671 |
| Ti 334.941 | 3.5332 | 3.4896 | 3.6614 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | -1.6018u | -3.4470u | -4.1874u |
| V 292.401 | 0.7790 | 0.8003 | 0.4093 |
| Zn 206.200 | 4.7285 | 5.0979 | 8.1929 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | -0.0061b | ppb | 0.1017 | 1679.5 | -37.5497 |
| Al 308.215 | 292.852b | ppb | 1.1787 | 0.4 | 2485.65 |
| As 188.980 | -1.4691b | ppb | 3.5066 | 238.7 | -7.7603 |
| B 249.678 | 135.247b | ppb | 0.1205 | 0.1 | 2306.97 |
| Ba 389.178 | 416.649b | ppb | 1.2634 | 0.3 | 9136.28 |
| Be 313.042 | 0.0460b | ppb | 0.0022 | 4.8 | -270.578 |
| Ca 370.602 | 3215b | ppb | 3.986 | 0.1 | 8818 |
| Cd 226.502 | -0.0284b | ppb | 0.0696 | 245.4 | 12.4315 |
| Co 228.615 | 0.3109b | ppb | 0.3427 | 110.2 | 8.1497 |
| Cr 267.716 | 0.6414b | ppb | 0.1177 | 18.3 | 83.6167 |
| Cu 324.754 | 0.7539b | ppb | 0.0635 | 8.4 | 300.544 |
| Fe 271.441 | 369.480b | ppb | 4.0814 | 1.1 | 594.708 |
| K 766.491 | 3940.68b | ppb | 27.9881 | 0.7 | 176956 |
| Mg 279.078 | 695.310b | ppb | 4.0977 | 0.6 | 1912.77 |
| Mn 257.610 | 13.8958b | ppb | 0.0445 | 0.3 | 2622.21 |
| Mo 202.032 | 0.3785b | ppb | 0.2003 | 52.9 | 8.1110 |
| Na 330.237 | 675308xb | ppb | 1459.15 | 0.2 | 31918.7 |
| Ni 231.604 | 0.1726b | ppb | 0.4164 | 241.2 | -4.2857 |
| Pb 220.353 | -1.0306b | ppb | 1.2990 | 126.0 | 10.1520 |
| Sb 206.834 | 1.6824b | ppb | 1.1800 | 70.1 | -0.0574 |
| Se 196.026 | 8.9628b | ppb | 2.8872 | 32.2 | 3.9742 |
| Sn 189.925 | -2.9950b | ppb | 4.3961 | 146.8 | -6.7136 |
| Sr 216.596 | 533.587b | ppb | 0.9534 | 0.2 | 6652.12 |
| Ti 334.941 | 3.5614b | ppb | 0.0893 | 2.5 | 951.131 |
| Tl 190.794 | -3.0787b | ppb | 1.3316 | 43.3 | -11.7298 |
| V 292.401 | 0.6629b | ppb | 0.2199 | 33.2 | -1.4984 |
| Zn 206.200 | 6.0064b | ppb | 1.9025 | 31.7 | 7.5828 |

**280-60491-b-12-b (Samp)** **10/20/2014, 6:51:08 PM** **Rack 1, Tube 42**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0378u | -0.1269u | 0.1857 |
| Al 308.215 | 59.1067 | 56.8055 | 56.0120 |
| As 188.980 | -0.0709u | -0.1912u | 4.4084 |
| B 249.678 | 135.902 | 135.679 | 136.696 |
| Ba 389.178 | 487.801 | 486.679 | 487.567 |
| Be 313.042 | 0.0381 | 0.0363 | 0.0343u |
| Ca 370.602 | 2879 | 2862 | 2865 |
| Cd 226.502 | -0.1453u | -0.0441 | -0.0600 |
| Co 228.615 | -0.0102 | -0.2959u | 0.0739 |
| Cr 267.716 | 2.0334 | 2.2426 | 2.3023 |
| Cu 324.754 | 5.1516 | 4.9485 | 5.1406 |
| Fe 271.441 | 2070.12 | 2065.05 | 2065.38 |
| K 766.491 | 3715.57 | 3711.06 | 3726.02 |
| Mg 279.078 | 635.046 | 628.926 | 634.254 |
| Mn 257.610 | 45.5853 | 45.1845 | 45.2749 |
| Mo 202.032 | 1.2180 | 0.6332 | 2.0345 |
| Na 330.237 | 569498x | 568659x | 567162x |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 2.8382 | 2.3932 | 2.7922 |
| Pb 220.353 | -0.7194u | 1.2682 | -2.5051u |
| Sb 206.834 | -1.2576u | -0.2015u | 2.3481 |
| Se 196.026 | 3.2346 | 10.6183 | 7.2474 |
| Sn 189.925 | -2.1135u | -3.7133u | -1.8430u |
| Sr 216.596 | 400.916 | 399.937 | 402.149 |
| Ti 334.941 | 0.7179 | 0.7900 | 0.7692 |
| Tl 190.794 | -0.6874u | -0.8902u | 0.0732u |
| V 292.401 | 0.3949 | 0.3133 | 0.5273 |
| Zn 206.200 | 15.4703 | 15.7199 | 13.5400 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0322b | ppb | 0.1564 | 485.4 | -30.0296 |
| Al 308.215 | 57.3081b | ppb | 1.6074 | 2.8 | 885.268 |
| As 188.980 | 1.3821b | ppb | 2.6216 | 189.7 | -5.8510 |
| B 249.678 | 136.092b | ppb | 0.5345 | 0.4 | 2317.22 |
| Ba 389.178 | 487.349b | ppb | 0.5917 | 0.1 | 10698.7 |
| Be 313.042 | 0.0362b | ppb | 0.0019 | 5.2 | -276.540 |
| Ca 370.602 | 2868b | ppb | 9.039 | 0.3 | 7851 |
| Cd 226.502 | -0.0831b | ppb | 0.0544 | 65.5 | 17.1359 |
| Co 228.615 | -0.0774b | ppb | 0.1939 | 250.4 | 3.6953 |
| Cr 267.716 | 2.1928b | ppb | 0.1412 | 6.4 | 166.994 |
| Cu 324.754 | 5.0802b | ppb | 0.1142 | 2.2 | 621.689 |
| Fe 271.441 | 2066.85b | ppb | 2.8387 | 0.1 | 3285.64 |
| K 766.491 | 3717.55b | ppb | 7.6725 | 0.2 | 166948 |
| Mg 279.078 | 632.742b | ppb | 3.3287 | 0.5 | 1742.06 |
| Mn 257.610 | 45.3482b | ppb | 0.2102 | 0.5 | 8484.01 |
| Mo 202.032 | 1.2952b | ppb | 0.7039 | 54.3 | 14.3120 |
| Na 330.237 | 568439xb | ppb | 1183.09 | 0.2 | 26870.9 |
| Ni 231.604 | 2.6746b | ppb | 0.2447 | 9.1 | 3.6758 |
| Pb 220.353 | -0.6521b | ppb | 1.8876 | 289.5 | 10.8787 |
| Sb 206.834 | 0.2964b | ppb | 1.8537 | 625.5 | -1.9904 |
| Se 196.026 | 7.0334b | ppb | 3.6965 | 52.6 | 3.1045 |
| Sn 189.925 | -2.5566b | ppb | 1.0108 | 39.5 | -6.4158 |
| Sr 216.596 | 401.001b | ppb | 1.1087 | 0.3 | 5002.85 |
| Ti 334.941 | 0.7590b | ppb | 0.0371 | 4.9 | 132.161 |
| Tl 190.794 | -0.5015b | ppb | 0.5079 | 101.3 | -9.1122 |
| V 292.401 | 0.4119b | ppb | 0.1080 | 26.2 | -6.7279 |
| Zn 206.200 | 14.9101b | ppb | 1.1931 | 8.0 | 17.2672 |

**280-60491-b-16-d (Samp)** **10/20/2014, 6:55:23 PM** **Rack 1, Tube 43**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0106u | 0.1110u | 0.1055u |
| Al 308.215 | 1560.22 | 1560.22 | 1554.43 |
| As 188.980 | -1.3757u | -5.3044u | -2.8346u |
| B 249.678 | 307.211 | 308.321 | 308.461 |
| Ba 389.178 | 536.125 | 536.429 | 537.311 |
| Be 313.042 | 0.0851 | 0.0868 | 0.0897 |
| Ca 370.602 | 3990 | 4008 | 4015 |
| Cd 226.502 | -0.1304u | 0.0217u | 0.0508 |
| Co 228.615 | 0.3834 | 0.4275 | 0.5216 |
| Cr 267.716 | 1.5563 | 1.7358 | 1.5610 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 1.8238 | 1.8212 | 1.8397 |
| Fe 271.441 | 917.028 | 911.102 | 908.197 |
| K 766.491 | 4661.25 | 4675.90 | 4673.20 |
| Mg 279.078 | 1040.93 | 1037.36 | 1040.34 |
| Mn 257.610 | 23.2170 | 23.3797 | 23.3394 |
| Mo 202.032 | 0.5197 | -0.2125u | 0.9446 |
| Na 330.237 | 686806x | 690341x | 691088x |
| Ni 231.604 | 1.2268 | 1.2856 | 0.5761 |
| Pb 220.353 | -1.1637u | 1.5147 | 0.9632 |
| Sb 206.834 | -1.0401u | 1.1309 | 1.1085 |
| Se 196.026 | 5.6975 | 12.7981 | 6.9938 |
| Sn 189.925 | -3.4919u | -2.9152u | -2.6909u |
| Sr 216.596 | 618.609 | 620.455 | 620.617 |
| Ti 334.941 | 13.8395 | 13.3467 | 13.0901 |
| Tl 190.794 | -1.0119u | -4.0394u | -2.9564u |
| V 292.401 | 2.9470 | 2.8456 | 2.9591 |
| Zn 206.200 | 8.7996 | 9.2318 | 8.4178 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0757b | ppb | 0.0565 | 74.6 | -33.4308 |
| Al 308.215 | 1558.29b | ppb | 3.3422 | 0.2 | 11100.4 |
| As 188.980 | -3.1716b | ppb | 1.9859 | 62.6 | -8.8989 |
| B 249.678 | 307.998b | ppb | 0.6847 | 0.2 | 5204.20 |
| Ba 389.178 | 536.621b | ppb | 0.6159 | 0.1 | 11787.0 |
| Be 313.042 | 0.0872b | ppb | 0.0023 | 2.7 | -197.430 |
| Ca 370.602 | 4004b | ppb | 13.26 | 0.3 | 10978 |
| Cd 226.502 | -0.0193b | ppb | 0.0973 | 505.0 | 14.7541 |
| Co 228.615 | 0.4442b | ppb | 0.0706 | 15.9 | 9.9331 |
| Cr 267.716 | 1.6177b | ppb | 0.1023 | 6.3 | 137.527 |
| Cu 324.754 | 1.8283b | ppb | 0.0100 | 0.5 | 380.311 |
| Fe 271.441 | 912.109b | ppb | 4.5011 | 0.5 | 1455.01 |
| K 766.491 | 4670.12b | ppb | 7.7951 | 0.2 | 209675 |
| Mg 279.078 | 1039.55b | ppb | 1.9137 | 0.2 | 2848.27 |
| Mn 257.610 | 23.3120b | ppb | 0.0847 | 0.4 | 4379.36 |
| Mo 202.032 | 0.4173b | ppb | 0.5853 | 140.3 | 8.3489 |
| Na 330.237 | 689412xb | ppb | 2287.23 | 0.3 | 32584.5 |
| Ni 231.604 | 1.0295b | ppb | 0.3938 | 38.2 | -1.5622 |
| Pb 220.353 | 0.4381b | ppb | 1.4143 | 322.8 | 12.5036 |
| Sb 206.834 | 0.3997b | ppb | 1.2470 | 312.0 | -1.8731 |
| Se 196.026 | 8.4965b | ppb | 3.7813 | 44.5 | 3.7662 |
| Sn 189.925 | -3.0327b | ppb | 0.4132 | 13.6 | -6.7369 |
| Sr 216.596 | 619.893b | ppb | 1.1155 | 0.2 | 7727.85 |
| Ti 334.941 | 13.4254b | ppb | 0.3809 | 2.8 | 3865.13 |
| Tl 190.794 | -2.6692b | ppb | 1.5340 | 57.5 | -11.3444 |
| V 292.401 | 2.9172b | ppb | 0.0623 | 2.1 | 55.9402 |
| Zn 206.200 | 8.8164b | ppb | 0.4072 | 4.6 | 10.6372 |

**680-106319-f-1-a (Samp)** **10/20/2014, 6:59:40 PM** **Rack 1, Tube 44**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1999 | 0.0408 | 0.0247 |
| Al 308.215 | 4.9898 | 5.0547 | 5.5949 |
| As 188.980 | 1.1291 | -1.4241u | -3.2265u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 11.5815 | 10.5116 | 9.7144 |
| Ba 389.178 | 11.3560 | 11.6871 | 11.0690 |
| Be 313.042 | 0.0301 | 0.0223 | 0.0159 |
| Ca 370.602 | 5182 | 5151 | 5146 |
| Cd 226.502 | -0.2155 | -0.2464 | -0.1776 |
| Co 228.615 | 2.6996 | 3.3772 | 2.8498 |
| Cr 267.716 | 0.3770 | 0.1808 | 0.2571 |
| Cu 324.754 | -0.1445u | 0.2208 | -0.4045u |
| Fe 271.441 | 7201.19 | 7143.60 | 7192.48 |
| K 766.491 | 606.557 | 604.299 | 605.441 |
| Mg 279.078 | 2975.51 | 2959.40 | 2964.44 |
| Mn 257.610 | 626.409 | 622.353 | 621.459 |
| Mo 202.032 | 0.3697 | 0.8340 | 0.5959 |
| Na 330.237 | 4018.68 | 4080.51 | 4207.41 |
| Ni 231.604 | 4.4480 | 4.5194 | 4.6238 |
| Pb 220.353 | 1.7387 | -0.6743u | 0.5824 |
| Sb 206.834 | 0.5858 | 0.8386 | 2.2503 |
| Se 196.026 | 4.5651 | 5.6692 | -1.4721u |
| Sn 189.925 | -0.3948u | -4.0604u | -4.4949u |
| Sr 216.596 | 40.6324 | 40.9909 | 40.4823 |
| Ti 334.941 | 0.1742 | 0.1119 | 0.1365 |
| Tl 190.794 | -1.2130u | 0.7764 | -2.3409u |
| V 292.401 | -0.4031u | -0.1591u | -0.5668u |
| Zn 206.200 | 21.3338 | 22.7580 | 22.9286 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0885 | ppb | 0.0969 | 109.5 | -11.0990 |
| Al 308.215 | 5.2131 | ppb | 0.3322 | 6.4 | 539.347 |
| As 188.980 | -1.1738 | ppb | 2.1886 | 186.4 | -7.6094 |
| B 249.678 | 10.6025 | ppb | 0.9369 | 8.8 | 199.780 |
| Ba 389.178 | 11.3707 | ppb | 0.3093 | 2.7 | 191.376 |
| Be 313.042 | 0.0228 | ppb | 0.0071 | 31.3 | -236.744 |
| Ca 370.602 | 5160 | ppb | 19.59 | 0.4 | 14077 |
| Cd 226.502 | -0.2132 | ppb | 0.0345 | 16.2 | 34.5223 |
| Co 228.615 | 2.9755 | ppb | 0.3559 | 12.0 | 39.3386 |
| Cr 267.716 | 0.2716 | ppb | 0.0989 | 36.4 | 55.9446 |
| Cu 324.754 | -0.1094 | ppb | 0.3141 | 287.2 | 239.607 |
| Fe 271.441 | 7179.09 | ppb | 31.0414 | 0.4 | 11390.6 |
| K 766.491 | 605.433 | ppb | 1.1290 | 0.2 | 27354.4 |
| Mg 279.078 | 2966.45 | ppb | 8.2440 | 0.3 | 8076.87 |
| Mn 257.610 | 623.407 | ppb | 2.6381 | 0.4 | 116167 |
| Mo 202.032 | 0.5999 | ppb | 0.2322 | 38.7 | 9.3071 |
| Na 330.237 | 4102.20 | ppb | 96.2206 | 2.3 | 216.946 |
| Ni 231.604 | 4.5304 | ppb | 0.0884 | 2.0 | 9.9082 |
| Pb 220.353 | 0.5489 | ppb | 1.2068 | 219.9 | 13.2509 |
| Sb 206.834 | 1.2249 | ppb | 0.8970 | 73.2 | -0.4993 |
| Se 196.026 | 2.9207 | ppb | 3.8442 | 131.6 | 1.3894 |
| Sn 189.925 | -2.9833 | ppb | 2.2522 | 75.5 | -6.9254 |
| Sr 216.596 | 40.7019 | ppb | 0.2613 | 0.6 | 523.093 |
| Ti 334.941 | 0.1409 | ppb | 0.0314 | 22.3 | 1.0917 |
| Tl 190.794 | -0.9258 | ppb | 1.5784 | 170.5 | -9.9686 |
| V 292.401 | -0.3764 | ppb | 0.2052 | 54.5 | -20.5638 |
| Zn 206.200 | 22.3401 | ppb | 0.8757 | 3.9 | 25.1867 |

**680-106319-f-2-a (Samp)** **10/20/2014, 7:03:56 PM** **Rack 1, Tube 45**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.0686u | 0.2661 | 0.1965 |
| Al 308.215 | 6.3257 | 9.0945 | 7.3585 |
| As 188.980 | -4.0853u | 2.3202 | -4.1673u |
| B 249.678 | 6.4116 | 6.9181 | 7.0307 |
| Ba 389.178 | 7.9785 | 8.3737 | 8.7198 |
| Be 313.042 | 0.0247 | 0.0262 | 0.0315 |
| Ca 370.602 | 4497 | 4513 | 4521 |
| Cd 226.502 | -0.2844u | -0.2081u | -0.1819u |
| Co 228.615 | 0.1801 | -0.1216u | 0.3956 |
| Cr 267.716 | 0.5531 | 0.6778 | 0.6916 |
| Cu 324.754 | 0.0030 | -0.1708u | -0.2768u |
| Fe 271.441 | 1691.14 | 1701.10 | 1695.45 |
| K 766.491 | 692.789 | 695.005 | 693.518 |
| Mg 279.078 | 2067.11 | 2075.31 | 2074.71 |
| Mn 257.610 | 407.825 | 409.578 | 409.882 |
| Mo 202.032 | 0.7844 | 1.0180 | -0.1605u |
| Na 330.237 | 7944.35 | 7720.46 | 7720.66 |
| Ni 231.604 | 1.1081 | 1.4815 | 1.1717 |
| Pb 220.353 | 0.5006 | 0.9948 | 1.1240 |
| Sb 206.834 | -1.4114u | -1.3680u | -0.7439u |
| Se 196.026 | 5.2891 | 5.7096 | 6.4710 |
| Sn 189.925 | -1.4575u | 0.6926 | -4.7609u |
| Sr 216.596 | 59.5760 | 59.6757 | 59.6643 |
| Ti 334.941 | 0.1158 | 0.0927 | 0.0970 |
| Tl 190.794 | -1.1757u | -0.3737u | -0.0452u |
| V 292.401 | -0.2100u | -0.4771u | -0.1535u |
| Zn 206.200 | 4.3868 | 5.7253 | 6.9487 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.1313 | ppb | 0.1766 | 134.5 | -8.2313 |
| Al 308.215 | 7.5929 | ppb | 1.3992 | 18.4 | 546.155 |
| As 188.980 | -1.9775 | ppb | 3.7221 | 188.2 | -8.1151 |
| B 249.678 | 6.7868 | ppb | 0.3298 | 4.9 | 148.491 |
| Ba 389.178 | 8.3574 | ppb | 0.3709 | 4.4 | 120.594 |
| Be 313.042 | 0.0275 | ppb | 0.0036 | 13.1 | -228.622 |
| Ca 370.602 | 4510 | ppb | 12.18 | 0.3 | 12357 |
| Cd 226.502 | -0.2248 | ppb | 0.0532 | 23.7 | 13.3471 |
| Co 228.615 | 0.1514 | ppb | 0.2598 | 171.6 | 6.3179 |
| Cr 267.716 | 0.6408 | ppb | 0.0763 | 11.9 | 72.4618 |
| Cu 324.754 | -0.1482 | ppb | 0.1413 | 95.3 | 234.341 |
| Fe 271.441 | 1695.90 | ppb | 4.9968 | 0.3 | 2697.54 |
| K 766.491 | 693.771 | ppb | 1.1291 | 0.2 | 31316.8 |
| Mg 279.078 | 2072.37 | ppb | 4.5723 | 0.2 | 5649.87 |
| Mn 257.610 | 409.095 | ppb | 1.1101 | 0.3 | 76235.4 |
| Mo 202.032 | 0.5473 | ppb | 0.6240 | 114.0 | 9.2059 |
| Na 330.237 | 7795.15 | ppb | 129.205 | 1.7 | 393.027 |
| Ni 231.604 | 1.2537 | ppb | 0.1998 | 15.9 | -0.7942 |
| Pb 220.353 | 0.8731 | ppb | 0.3291 | 37.7 | 13.3539 |
| Sb 206.834 | -1.1744 | ppb | 0.3735 | 31.8 | -4.1207 |
| Se 196.026 | 5.8232 | ppb | 0.5991 | 10.3 | 2.6178 |
| Sn 189.925 | -1.8419 | ppb | 2.7470 | 149.1 | -6.0559 |
| Sr 216.596 | 59.6387 | ppb | 0.0545 | 0.1 | 752.021 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 0.1018 | ppb | 0.0123 | 12.1 | -13.0276 |
| Tl 190.794 | -0.5315 | ppb | 0.5816 | 109.4 | -8.9129 |
| V 292.401 | -0.2802 | ppb | 0.1728 | 61.7 | -20.1071 |
| Zn 206.200 | 5.6869 | ppb | 1.2813 | 22.5 | 7.1714 |

**680-106319-f-3-a (Samp)** **10/20/2014, 7:08:13 PM** **Rack 1, Tube 46**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | -0.1234u | 0.3624 | 0.4640 |
| Al 308.215 | 38.7054 | 38.7981 | 39.0138 |
| As 188.980 | 3.1660 | -0.7736u | 0.0255 |
| B 249.678 | 6.4659 | 6.0573 | 5.4031 |
| Ba 389.178 | 2.6593 | 3.6573 | 3.0991 |
| Be 313.042 | 0.2020 | 0.2034 | 0.2047 |
| Ca 370.602 | 652.7 | 652.3 | 653.0 |
| Cd 226.502 | -0.0948 | -0.1289 | -0.0572 |
| Co 228.615 | 5.7457 | 5.7203 | 6.1437 |
| Cr 267.716 | 17.0267 | 17.2674 | 17.2405 |
| Cu 324.754 | 0.2726 | 0.7705 | 0.4417 |
| Fe 271.441 | 2406.90 | 2404.33 | 2401.44 |
| K 766.491 | 1130.33 | 1128.94 | 1131.02 |
| Mg 279.078 | 5320.47 | 5299.09 | 5319.04 |
| Mn 257.610 | 85.9505 | 85.5697 | 85.6766 |
| Mo 202.032 | 3.5142 | 3.4338 | 3.7210 |
| Na 330.237 | 2653.56 | 2667.16 | 2610.70 |
| Ni 231.604 | 26.7356 | 25.1837 | 27.6766 |
| Pb 220.353 | 0.2620 | 1.3623 | 0.1019 |
| Sb 206.834 | 2.2758 | -1.1487u | -0.3091u |
| Se 196.026 | -2.3453u | 2.0459 | 10.3147 |
| Sn 189.925 | -3.9675u | -3.5424u | -2.7482u |
| Sr 216.596 | 9.3280 | 10.0384 | 10.2426 |
| Ti 334.941 | 0.3046 | 0.3545 | 0.3141 |
| Tl 190.794 | 2.6296 | 0.1234u | -3.6982u |
| V 292.401 | 0.1189 | -0.1347u | 0.0696 |
| Zn 206.200 | 83.7985 | 84.0425 | 84.3093 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.2343 | ppb | 0.3140 | 134.0 | 0.3309 |
| Al 308.215 | 38.8391 | ppb | 0.1583 | 0.4 | 760.217 |
| As 188.980 | 0.8060 | ppb | 2.0825 | 258.4 | -6.2428 |
| B 249.678 | 5.9754 | ppb | 0.5361 | 9.0 | 133.247 |
| Ba 389.178 | 3.1386 | ppb | 0.5002 | 15.9 | 10.1995 |
| Be 313.042 | 0.2033 | ppb | 0.0013 | 0.7 | 88.7043 |
| Ca 370.602 | 652.7 | ppb | 0.3389 | 0.1 | 1782 |
| Cd 226.502 | -0.0937 | ppb | 0.0359 | 38.3 | 21.7246 |
| Co 228.615 | 5.8699 | ppb | 0.2375 | 4.0 | 72.4241 |
| Cr 267.716 | 17.1782 | ppb | 0.1319 | 0.8 | 973.305 |
| Cu 324.754 | 0.4950 | ppb | 0.2532 | 51.2 | 282.399 |
| Fe 271.441 | 2404.22 | ppb | 2.7284 | 0.1 | 3821.18 |
| K 766.491 | 1130.10 | ppb | 1.0608 | 0.1 | 50888.1 |
| Mg 279.078 | 5312.87 | ppb | 11.9551 | 0.2 | 14469.0 |
| Mn 257.610 | 85.7322 | ppb | 0.1964 | 0.2 | 16038.8 |
| Mo 202.032 | 3.5563 | ppb | 0.1482 | 4.2 | 29.7851 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 2643.81 | ppb | 29.4662 | 1.1 | 147.668 |
| Ni 231.604 | 26.5319 | ppb | 1.2589 | 4.7 | 78.2268 |
| Pb 220.353 | 0.5754 | ppb | 0.6861 | 119.2 | 12.8699 |
| Sb 206.834 | 0.2726 | ppb | 1.7848 | 654.6 | -1.8862 |
| Se 196.026 | 3.3384 | ppb | 6.4282 | 192.6 | 1.3946 |
| Sn 189.925 | -3.4194 | ppb | 0.6189 | 18.1 | -7.2575 |
| Sr 216.596 | 9.8697 | ppb | 0.4801 | 4.9 | 130.860 |
| Ti 334.941 | 0.3244 | ppb | 0.0265 | 8.2 | 59.0431 |
| Tl 190.794 | -0.3151 | ppb | 3.1866 | 1011.4 | -8.9255 |
| V 292.401 | 0.0179 | ppb | 0.1345 | 749.6 | -13.3608 |
| Zn 206.200 | 84.0501 | ppb | 0.2555 | 0.3 | 93.0535 |

**680-106323-c-4-f (Samp)** **10/20/2014, 7:12:30 PM** **Rack 1, Tube 47**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1399 | -0.1329u | 0.0521 |
| Al 308.215 | 23.4383 | 23.9840 | 23.5823 |
| As 188.980 | -0.5273u | -3.2221u | 4.1729 |
| B 249.678 | 37.8658 | 37.9996 | 37.7999 |
| Ba 389.178 | 8.7924 | 8.3808 | 8.8889 |
| Be 313.042 | 0.0175 | 0.0155 | 0.0186 |
| Ca 370.602 | 1905 | 1908 | 1892 |
| Cd 226.502 | 0.0929 | -0.0331u | -0.0798u |
| Co 228.615 | -0.1779u | 0.0677 | 0.2919 |
| Cr 267.716 | 0.5349 | 0.4978 | 0.4108 |
| Cu 324.754 | 119.349 | 119.926 | 119.815 |
| Fe 271.441 | 201.111 | 197.241 | 197.645 |
| K 766.491 | 1640.81 | 1631.58 | 1636.94 |
| Mg 279.078 | 450.180 | 447.104 | 447.944 |
| Mn 257.610 | 9.4105 | 9.4599 | 9.4157 |
| Mo 202.032 | 1.3189 | 0.7354 | 0.8113 |
| Na 330.237 | 734.063 | 813.614 | 660.176 |
| Ni 231.604 | 0.0920 | 0.2542 | -0.0168u |
| Pb 220.353 | -0.7788u | 0.6967 | 0.3977 |
| Sb 206.834 | 1.4353 | 3.1524 | -0.1603u |
| Se 196.026 | -0.3381u | -4.1810u | 8.4607 |
| Sn 189.925 | -2.1096u | 0.8871 | -1.0762u |
| Sr 216.596 | 10.7628 | 11.0020 | 10.1090 |
| Ti 334.941 | 0.2379 | 0.1948 | 0.2740 |
| Tl 190.794 | -0.0974u | -0.0210u | 0.0046u |
| V 292.401 | -0.0243u | -0.1362u | 0.1393 |
| Zn 206.200 | 136.514 | 138.757 | 133.733 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0197 | ppb | 0.1392 | 706.9 | -17.7815 |
| Al 308.215 | 23.6682 | ppb | 0.2828 | 1.2 | 653.053 |
| As 188.980 | 0.1412 | ppb | 3.7425 | 2651.1 | -6.6760 |
| B 249.678 | 37.8884 | ppb | 0.1018 | 0.3 | 673.839 |
| Ba 389.178 | 8.6873 | ppb | 0.2698 | 3.1 | 124.842 |
| Be 313.042 | 0.0172 | ppb | 0.0015 | 8.9 | -247.166 |
| Ca 370.602 | 1902 | ppb | 8.479 | 0.4 | 5225 |
| Cd 226.502 | -0.0067 | ppb | 0.0894 | 1341.7 | 17.1144 |
| Co 228.615 | 0.0606 | ppb | 0.2350 | 388.1 | 5.1582 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 0.4812 | ppb | 0.0637 | 13.2 | 60.9603 |
| Cu 324.754 | 119.697 | ppb | 0.3061 | 0.3 | 9108.29 |
| Fe 271.441 | 198.666 | ppb | 2.1272 | 1.1 | 323.902 |
| K 766.491 | 1636.44 | ppb | 4.6390 | 0.3 | 73600.2 |
| Mg 279.078 | 448.409 | ppb | 1.5896 | 0.4 | 1241.51 |
| Mn 257.610 | 9.4287 | ppb | 0.0271 | 0.3 | 1791.20 |
| Mo 202.032 | 0.9552 | ppb | 0.3172 | 33.2 | 12.0706 |
| Na 330.237 | 735.951 | ppb | 76.7361 | 10.4 | 56.7987 |
| Ni 231.604 | 0.1098 | ppb | 0.1364 | 124.2 | -4.4966 |
| Pb 220.353 | 0.1052 | ppb | 0.7800 | 741.4 | 11.9502 |
| Sb 206.834 | 1.4758 | ppb | 1.6567 | 112.3 | -0.3729 |
| Se 196.026 | 1.3138 | ppb | 6.4807 | 493.3 | 0.4020 |
| Sn 189.925 | -0.7662 | ppb | 1.5222 | 198.7 | -5.2400 |
| Sr 216.596 | 10.6246 | ppb | 0.4622 | 4.4 | 138.826 |
| Ti 334.941 | 0.2356 | ppb | 0.0396 | 16.8 | 24.0193 |
| Tl 190.794 | -0.0379 | ppb | 0.0531 | 139.9 | -8.3693 |
| V 292.401 | -0.0071 | ppb | 0.1385 | 1959.1 | -13.6988 |
| Zn 206.200 | 136.334 | ppb | 2.5167 | 1.8 | 150.565 |

**680-106302-c-1-a (Samp)** **10/20/2014, 7:16:47 PM** **Rack 1, Tube 48**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.2346 | 0.2419 | -0.3106u |
| Al 308.215 | 358.728 | 356.475 | 357.937 |
| As 188.980 | 4.3123 | 3.5887 | 0.7427 |
| B 249.678 | 35.9795 | 35.7327 | 36.1867 |
| Ba 389.178 | 16.3831 | 16.3178 | 16.2495 |
| Be 313.042 | -0.0029 | -0.0011 | -0.0070u |
| Ca 370.602 | 56944 | 56841 | 56920 |
| Cd 226.502 | -0.2500u | -0.1017u | -0.0839 |
| Co 228.615 | -0.1550u | 0.4955 | 0.2528 |
| Cr 267.716 | 1.5314 | 1.4518 | 1.4929 |
| Cu 324.754 | 13.3309 | 13.2009 | 14.3120 |
| Fe 271.441 | 961.176 | 965.080 | 959.795 |
| K 766.491 | 1437.41 | 1433.42 | 1430.36 |
| Mg 279.078 | 23246.4 | 23255.7 | 23288.6 |
| Mn 257.610 | 40.3500 | 40.2588 | 40.3691 |
| Mo 202.032 | 43.5427 | 43.0486 | 43.1610 |
| Na 330.237 | 8431.81 | 8438.01 | 8106.37 |
| Ni 231.604 | 20.7516 | 20.1734 | 20.9883 |
| Pb 220.353 | 1.0209 | 2.0199 | -2.7534u |
| Sb 206.834 | 3.1878 | 3.3297 | 4.4546 |
| Se 196.026 | 7.7602 | 1.7862 | 9.1421 |
| Sn 189.925 | 8.7671 | 7.7794 | 7.3728 |
| Sr 216.596 | 46.5134 | 46.1222 | 47.3437 |
| Ti 334.941 | 0.2658 | 0.3010 | 0.2979 |
| Tl 190.794 | -1.0731u | -2.5269u | 0.5145 |
| V 292.401 | -0.0800u | 0.1181u | -0.0956u |
| Zn 206.200 | 7.8926 | 7.7719 | 8.1369 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0553 | ppb | 0.3169 | 573.3 | -16.5000 |
| Al 308.215 | 357.713 | ppb | 1.1432 | 0.3 | 2930.61 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 2.8812 | ppb | 1.8871 | 65.5 | -4.8415 |
| B 249.678 | 35.9663 | ppb | 0.2273 | 0.6 | 639.829 |
| Ba 389.178 | 16.3168 | ppb | 0.0668 | 0.4 | 325.352 |
| Be 313.042 | -0.0036 | ppb | 0.0030 | 82.7 | -274.372 |
| Ca 370.602 | 56902 | ppb | 54.17 | 0.1 | 155778 |
| Cd 226.502 | -0.1452 | ppb | 0.0912 | 62.8 | 14.3204 |
| Co 228.615 | 0.1978 | ppb | 0.3288 | 166.2 | 5.6286 |
| Cr 267.716 | 1.4920 | ppb | 0.0398 | 2.7 | 116.790 |
| Cu 324.754 | 13.6146 | ppb | 0.6075 | 4.5 | 1254.89 |
| Fe 271.441 | 962.017 | ppb | 2.7407 | 0.3 | 1534.13 |
| K 766.491 | 1433.73 | ppb | 3.5365 | 0.2 | 64507.5 |
| Mg 279.078 | 23263.5 | ppb | 22.2023 | 0.1 | 63287.3 |
| Mn 257.610 | 40.3260 | ppb | 0.0589 | 0.1 | 7697.04 |
| Mo 202.032 | 43.2508 | ppb | 0.2590 | 0.6 | 301.774 |
| Na 330.237 | 8325.40 | ppb | 189.709 | 2.3 | 418.207 |
| Ni 231.604 | 20.6377 | ppb | 0.4192 | 2.0 | 59.7023 |
| Pb 220.353 | 0.0958 | ppb | 2.5175 | 2629.1 | 11.9311 |
| Sb 206.834 | 3.6574 | ppb | 0.6940 | 19.0 | 2.0494 |
| Se 196.026 | 6.2295 | ppb | 3.9095 | 62.8 | 2.7134 |
| Sn 189.925 | 7.9731 | ppb | 0.7171 | 9.0 | 1.4104 |
| Sr 216.596 | 46.6597 | ppb | 0.6238 | 1.3 | 608.479 |
| Ti 334.941 | 0.2882 | ppb | 0.0195 | 6.8 | 79.6597 |
| Tl 190.794 | -1.0285 | ppb | 1.5212 | 147.9 | -9.6905 |
| V 292.401 | -0.0192 | ppb | 0.1192 | 620.9 | -20.1396 |
| Zn 206.200 | 7.9338 | ppb | 0.1860 | 2.3 | 9.6676 |

**Cont Calib Verif (CCV)** **10/20/2014, 7:21:03 PM** **Rack 1, Tube 49**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 509.524 | 508.194 | 506.198 |
| Al 308.215 | 4821.27 | 4823.26 | 4807.67 |
| As 188.980 | 469.935 | 469.347 | 473.764 |
| B 249.678 | 483.320 | 486.183 | 486.978 |
| Ba 389.178 | 4977.69 | 4986.43 | 4970.38 |
| Be 313.042 | 498.263 | 500.324 | 498.884 |
| Ca 370.602 | 5113 | 5116 | 5081 |
| Cd 226.502 | 494.874 | 495.212 | 492.829 |
| Co 228.615 | 506.392 | 507.380 | 504.365 |
| Cr 267.716 | 5050.97 | 5049.84 | 5029.96 |
| Cu 324.754 | 5018.12 | 5062.34 | 5051.94 |
| Fe 271.441 | 4912.67 | 4924.59 | 4910.64 |
| K 766.491 | 9962.48 | 9980.99 | 9990.80 |
| Mg 279.078 | 4914.98 | 4915.52 | 4906.17 |
| Mn 257.610 | 5195.40 | 5200.70 | 5181.49 |
| Mo 202.032 | 497.482 | 497.835 | 494.370 |
| Na 330.237 | 7174.38 | 7494.81 | 7451.72 |
| Ni 231.604 | 2533.95 | 2530.40 | 2516.84 |
| Pb 220.353 | 502.019 | 505.856 | 497.601 |
| Sb 206.834 | 945.454 | 946.449 | 947.791 |
| Se 196.026 | 4894.87 | 4868.56 | 4883.89 |
| Sn 189.925 | 4943.91 | 4969.26 | 4943.14 |
| Sr 216.596 | 2488.48 | 2490.47 | 2476.97 |
| Ti 334.941 | 491.367 | 491.971 | 491.214 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 5093.68 | 5074.39 | 5055.53 |
| V 292.401 | 5006.95 | 5018.10 | 4993.40 |
| Zn 206.200 | 2502.39 | 2514.10 | 2497.37 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 507.972 | ppb | 1.6741 | 0.3 | 42888.3 | 101.59440 |
| Al 308.215 | 4817.40 | ppb | 8.4845 | 0.2 | 33813.6 | 96.34792 |
| As 188.980 | 471.015 | ppb | 2.3988 | 0.5 | 310.815 | 94.20308 |
| B 249.678 | 485.494 | ppb | 1.9238 | 0.4 | 8187.11 | 97.09875 |
| Ba 389.178 | 4978.17 | ppb | 8.0332 | 0.2 | 109912 | 99.56338 |
| Be 313.042 | 499.157 | ppb | 1.0569 | 0.2 | 904016 | 99.83138 |
| Ca 370.602 | 5104 | ppb | 19.48 | 0.4 | 14305 | 102.07153 |
| Cd 226.502 | 494.305 | ppb | 1.2894 | 0.3 | 21278.3 | 98.86104 |
| Co 228.615 | 506.046 | ppb | 1.5373 | 0.3 | 5858.79 | 101.20911 |
| Cr 267.716 | 5043.59 | ppb | 11.8182 | 0.2 | 275147 | 100.87182 |
| Cu 324.754 | 5044.13 | ppb | 23.1223 | 0.5 | 373714 | 100.88264 |
| Fe 271.441 | 4915.97 | ppb | 7.5367 | 0.2 | 7914.48 | 98.31940 |
| K 766.491 | 9978.09 | ppb | 14.3786 | 0.1 | 447763 | 99.78090 |
| Mg 279.078 | 4912.23 | ppb | 5.2512 | 0.1 | 13274.6 | 98.24452 |
| Mn 257.610 | 5192.53 | ppb | 9.9220 | 0.2 | 967081 | 103.85055 |
| Mo 202.032 | 496.562 | ppb | 1.9072 | 0.4 | 3401.51 | 99.31246 |
| Na 330.237 | 7373.64 | ppb | 173.897 | 2.4 | 310.834 | 98.31514 |
| Ni 231.604 | 2527.06 | ppb | 9.0329 | 0.4 | 7889.30 | 101.08249 |
| Pb 220.353 | 501.826 | ppb | 4.1311 | 0.8 | 814.131 | 100.36514 |
| Sb 206.834 | 946.565 | ppb | 1.1724 | 0.1 | 1407.13 | 94.65647 |
| Se 196.026 | 4882.44 | ppb | 13.2177 | 0.3 | 2279.09 | 97.64880 |
| Sn 189.925 | 4952.10 | ppb | 14.8648 | 0.3 | 3762.33 | 99.04210 |
| Sr 216.596 | 2485.31 | ppb | 7.2871 | 0.3 | 30886.2 | 99.41238 |
| Ti 334.941 | 491.518 | ppb | 0.4001 | 0.1 | 145196 | 98.30351 |
| Tl 190.794 | 5074.53 | ppb | 19.0756 | 0.4 | 5580.07 | 101.49065 |
| V 292.401 | 5006.15 | ppb | 12.3703 | 0.2 | 126963 | 100.12299 |
| Zn 206.200 | 2504.62 | ppb | 8.5867 | 0.3 | 2732.79 | 100.18488 |

**Cont Calib Blank (CCB)** **10/20/2014, 7:25:18 PM** **Rack 1, Tube 50**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1197 | 0.0284 | 0.2482 |
| Al 308.215 | 1.3425 | 3.0233 | 1.4399 |
| As 188.980 | -1.9344u | 2.5483 | -1.7812u |
| B 249.678 | 8.4608 | 8.4077 | 7.1071 |
| Ba 389.178 | 1.0529 | 0.4206 | -0.4200u |
| Be 313.042 | 0.0510 | 0.0547 | 0.0466 |
| Ca 370.602 | -1.409u | -0.1891u | 5.930 |
| Cd 226.502 | -0.1308u | 0.0595 | -0.0483u |
| Co 228.615 | 0.4217 | -0.0969u | 0.2277 |
| Cr 267.716 | 0.5060 | 0.3980 | 0.4538 |
| Cu 324.754 | 0.0687 | 0.1623 | 0.5169 |
| Fe 271.441 | 3.7665 | 6.5722 | 4.9381 |
| K 766.491 | 2.2799 | 1.9394 | 2.1779 |
| Mg 279.078 | 0.5997 | 2.9110 | 0.4772 |
| Mn 257.610 | 0.6504 | 0.6144 | 0.6484 |
| Mo 202.032 | 0.7416 | 0.3581 | 0.3447 |
| Na 330.237 | -188.398u | 109.075 | -106.099u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 0.0847 | 0.0273 | -0.5382u |
| Pb 220.353 | -0.0505u | -0.6249u | 0.3597 |
| Sb 206.834 | 1.1217 | 0.1797 | 0.7858 |
| Se 196.026 | 8.1261 | -2.3922u | 6.7569 |
| Sn 189.925 | 1.8868 | 0.7105 | 0.6826 |
| Sr 216.596 | 0.2287 | 0.5402 | 0.5098 |
| Ti 334.941 | 0.1300 | 0.1489 | 0.1314 |
| Tl 190.794 | 3.0663 | 1.0586 | 3.2790 |
| V 292.401 | 0.6382 | 0.2763 | 0.3828 |
| Zn 206.200 | 0.4804 | -1.4019u | 0.5578 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) | QC Value |
|---|---|---|---|---|---|---|
| Ag 328.068 | 0.1321 | ppb | 0.1104 | 83.6 | -7.9311 | 0.13207 |
| Al 308.215 | 1.9352 | ppb | 0.9436 | 48.8 | 504.782 | 1.93522 |
| As 188.980 | -0.3891 | ppb | 2.5450 | 654.1 | -7.0325 | -0.38911 |
| B 249.678 | 7.9919 | ppb | 0.7667 | 9.6 | 172.680 | 7.99187 |
| Ba 389.178 | 0.3512 | ppb | 0.7389 | 210.4 | -60.0054 | 0.35116 |
| Be 313.042 | 0.0507 | ppb | 0.0040 | 7.9 | -186.797 | 0.05075 |
| Ca 370.602 | 1.444 | ppb | 3.932 | 272.3 | 24.76 | 1.44400 |
| Cd 226.502 | -0.0399 | ppb | 0.0954 | 239.5 | 14.9483 | -0.03986 |
| Co 228.615 | 0.1841 | ppb | 0.2620 | 142.3 | 6.5798 | 0.18414 |
| Cr 267.716 | 0.4526 | ppb | 0.0540 | 11.9 | 59.2520 | 0.45261 |
| Cu 324.754 | 0.2493 | ppb | 0.2364 | 94.8 | 263.030 | 0.24932 |
| Fe 271.441 | 5.0923 | ppb | 1.4092 | 27.7 | 17.0192 | 5.09227 |
| K 766.491 | 2.1324 | ppb | 0.1747 | 8.2 | 293.554 | 2.13240 |
| Mg 279.078 | 1.3293 | ppb | 1.3712 | 103.1 | 25.8494 | 1.32929 |
| Mn 257.610 | 0.6377 | ppb | 0.0202 | 3.2 | 150.638 | 0.63771 |
| Mo 202.032 | 0.4815 | ppb | 0.2254 | 46.8 | 8.8344 | 0.48148 |
| Na 330.237 | -61.8073 | ppb | 153.603 | 248.5 | 22.4886 | -61.80725 |
| Ni 231.604 | -0.1421 | ppb | 0.3443 | 242.3 | -5.3005 | -0.14209 |
| Pb 220.353 | -0.1052 | ppb | 0.4946 | 470.0 | 11.6016 | -0.10524 |
| Sb 206.834 | 0.6957 | ppb | 0.4775 | 68.6 | -1.4913 | 0.69574 |
| Se 196.026 | 4.1636 | ppb | 5.7186 | 137.3 | 1.7269 | 4.16360 |
| Sn 189.925 | 1.0933 | ppb | 0.6873 | 62.9 | -3.8257 | 1.09329 |
| Sr 216.596 | 0.4262 | ppb | 0.1717 | 40.3 | 10.8762 | 0.42622 |
| Ti 334.941 | 0.1368 | ppb | 0.0105 | 7.7 | -5.9344 | 0.13678 |
| Tl 190.794 | 2.4680 | ppb | 1.2252 | 49.6 | -5.5908 | 2.46796 |
| V 292.401 | 0.4324 | ppb | 0.1860 | 43.0 | -2.5336 | 0.43241 |
| Zn 206.200 | -0.1212 | ppb | 1.1097 | 915.4 | 0.8789 | -0.12123 |

**680-106323-e-1-a (Samp)** **10/20/2014, 7:29:33 PM** **Rack 1, Tube 51**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0628u | 0.2431 | 0.1287 |
| Al 308.215 | 226.942 | 227.767 | 226.068 |
| As 188.980 | -0.5933u | 1.6400 | -0.5032u |
| B 249.678 | 48.2620 | 47.8461 | 47.6176 |
| Ba 389.178 | 17.9115 | 17.9113 | 18.4929 |
| Be 313.042 | 0.0121 | 0.0000 | 0.0101 |
| Ca 370.602 | 38225 | 38362 | 38383 |
| Cd 226.502 | -0.1452u | 0.1153 | 0.0395 |
| Co 228.615 | 0.4347 | 0.6616 | 0.4331 |
| Cr 267.716 | 2.1602 | 1.9875 | 2.0201 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 24.7803 | 24.7277 | 24.7856 |
| Fe 271.441 | 1199.22 | 1198.76 | 1203.32 |
| K 766.491 | 40645.5x | 40677.3x | 40626.3x |
| Mg 279.078 | 8598.76 | 8595.70 | 8600.02 |
| Mn 257.610 | 42.7181 | 42.8086 | 42.7178 |
| Mo 202.032 | 7.7942 | 7.2621 | 7.4265 |
| Na 330.237 | 56241.5 | 56538.5 | 56260.6 |
| Ni 231.604 | 5.4898 | 3.6963 | 5.3918 |
| Pb 220.353 | -0.1227u | 2.4172 | 0.4105 |
| Sb 206.834 | -0.7113u | -1.8731u | 2.8461 |
| Se 196.026 | 10.2488 | 6.3156 | 13.9133 |
| Sn 189.925 | 5.7130 | 3.7138 | 1.4342 |
| Sr 216.596 | 268.478 | 270.801 | 270.248 |
| Ti 334.941 | 2.8656 | 2.7925 | 3.2244 |
| Tl 190.794 | -4.8787u | -0.1470u | 2.4302 |
| V 292.401 | -0.0254u | 0.0974 | 0.2006 |
| Zn 206.200 | 141.260 | 138.555 | 141.952 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.1449b | ppb | 0.0913 | 63.0 | -16.1403 |
| Al 308.215 | 226.926b | ppb | 0.8495 | 0.4 | 2038.72 |
| As 188.980 | 0.1812b | ppb | 1.2642 | 697.7 | -6.6554 |
| B 249.678 | 47.9086b | ppb | 0.3267 | 0.7 | 839.738 |
| Ba 389.178 | 18.1052b | ppb | 0.3357 | 1.9 | 344.689 |
| Be 313.042 | 0.0074b | ppb | 0.0065 | 87.6 | -262.027 |
| Ca 370.602 | 38323b | ppb | 85.58 | 0.2 | 104918 |
| Cd 226.502 | 0.0032b | ppb | 0.1340 | 4144.4 | 21.0624 |
| Co 228.615 | 0.5098b | ppb | 0.1315 | 25.8 | 10.3221 |
| Cr 267.716 | 2.0559b | ppb | 0.0917 | 4.5 | 148.657 |
| Cu 324.754 | 24.7645b | ppb | 0.0320 | 0.1 | 2079.20 |
| Fe 271.441 | 1200.44b | ppb | 2.5099 | 0.2 | 1912.11 |
| K 766.491 | 40649.7xb | ppb | 25.7952 | 0.1 | 1823529 |
| Mg 279.078 | 8598.16b | ppb | 2.2192 | 0.0 | 23404.3 |
| Mn 257.610 | 42.7482b | ppb | 0.0523 | 0.1 | 8052.54 |
| Mo 202.032 | 7.4943b | ppb | 0.2724 | 3.6 | 56.8179 |
| Na 330.237 | 56346.9b | ppb | 166.193 | 0.3 | 2682.82 |
| Ni 231.604 | 4.8593b | ppb | 1.0084 | 20.8 | 10.4274 |
| Pb 220.353 | 0.9017b | ppb | 1.3393 | 148.5 | 13.2789 |
| Sb 206.834 | 0.0872b | ppb | 2.4589 | 2818.8 | -2.4310 |
| Se 196.026 | 10.1593b | ppb | 3.7997 | 37.4 | 4.5507 |
| Sn 189.925 | 3.6204b | ppb | 2.1409 | 59.1 | -1.8849 |
| Sr 216.596 | 269.842b | ppb | 1.2134 | 0.4 | 3381.96 |
| Ti 334.941 | 2.9608b | ppb | 0.2312 | 7.8 | 839.338 |
| Tl 190.794 | -0.8652b | ppb | 3.7070 | 428.5 | -9.4183 |
| V 292.401 | 0.0908b | ppb | 0.1132 | 124.6 | -12.2423 |
| Zn 206.200 | 140.589b | ppb | 1.7949 | 1.3 | 155.181 |

**680-106323-e-2-a (Samp)** **10/20/2014, 7:33:48 PM** **Rack 1, Tube 52**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.1035u | 0.1249 | -0.1485u |
| Al 308.215 | 362.205 | 361.964 | 359.511 |
| As 188.980 | -0.2873u | 0.4274 | -2.9882u |

| Label | Replicates Concentration | | |
|---|---|---|---|
| B 249.678 | 18.4414 | 18.1565 | 18.4546 |
| Ba 389.178 | 16.5870 | 16.8289 | 16.3568 |
| Be 313.042 | 0.0053 | 0.0093 | 0.0109 |
| Ca 370.602 | 26247 | 26152 | 26190 |
| Cd 226.502 | -0.3564u | -0.1552u | -0.3042u |
| Co 228.615 | -0.0246u | -0.2665u | -0.2400u |
| Cr 267.716 | 2.2958 | 2.2032 | 1.8700 |
| Cu 324.754 | 2.2560 | 2.1411 | 2.4700 |
| Fe 271.441 | 223.460 | 222.380 | 222.096 |
| K 766.491 | 1776.58 | 1773.63 | 1773.05 |
| Mg 279.078 | 7205.12 | 7200.43 | 7192.06 |
| Mn 257.610 | 3.3499 | 3.3178 | 3.3759 |
| Mo 202.032 | 2.3476 | 2.3856 | 2.8334 |
| Na 330.237 | 8412.40 | 8636.43 | 8281.09 |
| Ni 231.604 | 0.1553 | 0.8603 | 0.7359 |
| Pb 220.353 | -0.8843u | 1.1041 | 1.2411 |
| Sb 206.834 | 1.1291 | -2.1302u | 1.9786 |
| Se 196.026 | -0.8209u | 0.9964 | 2.4611 |
| Sn 189.925 | -2.5412u | -1.4399u | 0.6477 |
| Sr 216.596 | 307.805 | 309.134 | 307.955 |
| Ti 334.941 | 7.4200 | 7.0833 | 7.3480 |
| Tl 190.794 | -1.7588u | 1.8380 | 0.6492 |
| V 292.401 | 0.1163 | -0.0827u | -0.3521u |
| Zn 206.200 | 16.5425 | 16.7024 | 16.1208 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0267 | ppb | 0.1521 | 570.0 | -27.3297 |
| Al 308.215 | 361.227 | ppb | 1.4909 | 0.4 | 2950.88 |
| As 188.980 | -0.9494 | ppb | 1.8014 | 189.8 | -7.4087 |
| B 249.678 | 18.3508 | ppb | 0.1684 | 0.9 | 345.966 |
| Ba 389.178 | 16.5909 | ppb | 0.2361 | 1.4 | 308.725 |
| Be 313.042 | 0.0085 | ppb | 0.0029 | 34.1 | -256.126 |
| Ca 370.602 | 26196 | ppb | 47.93 | 0.2 | 71733 |
| Cd 226.502 | -0.2720 | ppb | 0.1044 | 38.4 | 5.8593 |
| Co 228.615 | -0.1771 | ppb | 0.1327 | 74.9 | 2.5242 |
| Cr 267.716 | 2.1230 | ppb | 0.2240 | 10.5 | 150.690 |
| Cu 324.754 | 2.2890 | ppb | 0.1669 | 7.3 | 414.250 |
| Fe 271.441 | 222.645 | ppb | 0.7200 | 0.3 | 361.895 |
| K 766.491 | 1774.42 | ppb | 1.8952 | 0.1 | 79789.0 |
| Mg 279.078 | 7199.20 | ppb | 6.6150 | 0.1 | 19600.5 |
| Mn 257.610 | 3.3479 | ppb | 0.0291 | 0.9 | 703.280 |
| Mo 202.032 | 2.5222 | ppb | 0.2702 | 10.7 | 22.8039 |
| Na 330.237 | 8443.31 | ppb | 179.675 | 2.1 | 423.717 |
| Ni 231.604 | 0.5838 | ppb | 0.3763 | 64.5 | -3.0127 |
| Pb 220.353 | 0.4870 | ppb | 1.1895 | 244.3 | 12.5488 |
| Sb 206.834 | 0.3258 | ppb | 2.1689 | 665.7 | -2.0318 |
| Se 196.026 | 0.8788 | ppb | 1.6442 | 187.1 | 0.1981 |
| Sn 189.925 | -1.1111 | ppb | 1.6197 | 145.8 | -5.4998 |
| Sr 216.596 | 308.298 | ppb | 0.7279 | 0.2 | 3855.10 |
| Ti 334.941 | 7.2838 | ppb | 0.1773 | 2.4 | 2118.02 |
| Tl 190.794 | 0.2428 | ppb | 1.8325 | 754.8 | -8.0731 |
| V 292.401 | -0.1062 | ppb | 0.2351 | 221.4 | -16.4016 |
| Zn 206.200 | 16.4552 | ppb | 0.3005 | 1.8 | 19.0482 |

**680-106323-e-3-a (Samp)** **10/20/2014, 7:38:03 PM** **Rack 1, Tube 53**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0091u | 0.1194 | 0.0473 |
| Al 308.215 | 147.616 | 146.951 | 149.333 |
| As 188.980 | -3.6181u | -1.2972u | -0.8028u |
| B 249.678 | 39.3369 | 39.2980 | 39.3530 |
| Ba 389.178 | 12.9610 | 11.7889 | 11.5886 |
| Be 313.042 | 0.0278 | 0.0200 | 0.0307 |
| Ca 370.602 | 12990 | 12965 | 12992 |
| Cd 226.502 | -0.0453 | -0.0358 | -0.0272 |
| Co 228.615 | 0.0427 | 0.2900 | 0.4031 |
| Cr 267.716 | 1.0772 | 1.1182 | 1.1137 |
| Cu 324.754 | 15.9671 | 16.0772 | 16.0285 |
| Fe 271.441 | 1414.23 | 1414.06 | 1409.67 |
| K 766.491 | 59859.6x | 59974.3x | 59970.1x |
| Mg 279.078 | 672.973 | 674.860 | 674.326 |
| Mn 257.610 | 17.1425 | 17.1600 | 17.0835 |
| Mo 202.032 | 0.3817 | 0.5655 | 0.9639 |
| Na 330.237 | 48821.2 | 48794.0 | 48805.0 |
| Ni 231.604 | 1.2302 | 0.6186 | 0.4711 |
| Pb 220.353 | 0.5610 | 1.3378 | -0.8532u |
| Sb 206.834 | -0.0769u | -1.1193u | 0.2678 |
| Se 196.026 | -0.5658u | 4.2486 | 0.2627 |
| Sn 189.925 | -4.4179u | -1.9383u | -2.4425u |
| Sr 216.596 | 45.2144 | 45.3805 | 45.2841 |
| Ti 334.941 | 3.8012 | 3.2635 | 3.5936 |
| Tl 190.794 | -3.6359u | 1.0985 | -2.8603u |
| V 292.401 | 1.0750 | 0.7585 | 0.6340 |
| Zn 206.200 | 191.178 | 187.977 | 189.708 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.0586b | ppb | 0.0560 | 95.7 | -15.8420 |
| Al 308.215 | 147.967b | ppb | 1.2289 | 0.8 | 1501.27 |
| As 188.980 | -1.9060b | ppb | 1.5031 | 78.9 | -8.0635 |
| B 249.678 | 39.3293b | ppb | 0.0282 | 0.1 | 695.340 |
| Ba 389.178 | 12.1128b | ppb | 0.7413 | 6.1 | 201.471 |
| Be 313.042 | 0.0262b | ppb | 0.0055 | 21.0 | -235.453 |
| Ca 370.602 | 12982b | ppb | 15.09 | 0.1 | 35545 |
| Cd 226.502 | -0.0361b | ppb | 0.0090 | 25.0 | 20.0838 |
| Co 228.615 | 0.2453b | ppb | 0.1843 | 75.1 | 7.4983 |
| Cr 267.716 | 1.1031b | ppb | 0.0225 | 2.0 | 96.4959 |
| Cu 324.754 | 16.0243b | ppb | 0.0552 | 0.3 | 1431.78 |
| Fe 271.441 | 1412.66b | ppb | 2.5853 | 0.2 | 2248.52 |
| K 766.491 | 59934.6xb | ppb | 65.0225 | 0.1 | 2688552 |
| Mg 279.078 | 674.053b | ppb | 0.9724 | 0.1 | 1854.96 |
| Mn 257.610 | 17.1287b | ppb | 0.0401 | 0.2 | 3229.65 |
| Mo 202.032 | 0.6370b | ppb | 0.2976 | 46.7 | 9.8330 |
| Na 330.237 | 48806.7b | ppb | 13.6743 | 0.0 | 2325.48 |
| Ni 231.604 | 0.7733b | ppb | 0.4025 | 52.0 | -2.3196 |
| Pb 220.353 | 0.3485b | ppb | 1.1109 | 318.7 | 12.4176 |
| Sb 206.834 | -0.3095b | ppb | 0.7222 | 233.4 | -2.8848 |
| Se 196.026 | 1.3152b | ppb | 2.5740 | 195.7 | 0.4210 |
| Sn 189.925 | -2.9329b | ppb | 1.3106 | 44.7 | -6.8722 |
| Sr 216.596 | 45.2930b | ppb | 0.0834 | 0.2 | 576.203 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ti 334.941 | 3.5528b | ppb | 0.2712 | 7.6 | 1000.70 |
| Tl 190.794 | -1.7993b | ppb | 2.5393 | 141.1 | -10.4625 |
| V 292.401 | 0.8225b | ppb | 0.2274 | 27.6 | 7.5183 |
| Zn 206.200 | 189.621b | ppb | 1.6025 | 0.8 | 208.964 |

**680-106319-f-4-d (Samp)** **10/20/2014, 7:42:19 PM** **Rack 1, Tube 54**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0310 | 0.4325 | 0.3135 |
| Al 308.215 | 23.9756 | 24.6364 | 23.4955 |
| As 188.980 | -6.5465u | -0.7356u | -1.8460u |
| B 249.678 | 6.0279 | 6.0565 | 6.0896 |
| Ba 389.178 | 2.9491 | 2.8706 | 3.3076 |
| Be 313.042 | 0.1539 | 0.1553 | 0.1596 |
| Ca 370.602 | 651.1 | 659.7 | 656.3 |
| Cd 226.502 | -0.1111 | -0.1994u | -0.1010 |
| Co 228.615 | 5.8999 | 5.5226 | 5.5406 |
| Cr 267.716 | 28.0636 | 27.9579 | 28.1885 |
| Cu 324.754 | 1.1804 | 0.9695 | 1.2465 |
| Fe 271.441 | 1950.46 | 1955.41 | 1943.26 |
| K 766.491 | 1111.72 | 1114.81 | 1111.94 |
| Mg 279.078 | 5301.76 | 5318.83 | 5311.91 |
| Mn 257.610 | 83.8788 | 84.0487 | 83.9592 |
| Mo 202.032 | 5.4723 | 6.0709 | 5.2550 |
| Na 330.237 | 2607.66 | 2446.65 | 2669.36 |
| Ni 231.604 | 37.9671 | 38.0689 | 38.3906 |
| Pb 220.353 | 0.1501 | -1.1489u | 1.9052 |
| Sb 206.834 | 0.5681 | -0.4264u | 2.2967 |
| Se 196.026 | 3.9787 | 1.3459 | 5.8745 |
| Sn 189.925 | 0.1901 | -1.5838u | -3.0269u |
| Sr 216.596 | 10.0927 | 9.9318 | 10.2495 |
| Ti 334.941 | 0.2562 | 0.2529 | 0.2586 |
| Tl 190.794 | -0.4885u | 2.2504 | 1.0925 |
| V 292.401 | -0.1230u | 0.0193u | -0.1811u |
| Zn 206.200 | 68.9674 | 67.3268 | 70.1714 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.2590 | ppb | 0.2062 | 79.6 | 2.4710 |
| Al 308.215 | 24.0358 | ppb | 0.5728 | 2.4 | 658.785 |
| As 188.980 | -3.0427 | ppb | 3.0847 | 101.4 | -8.8366 |
| B 249.678 | 6.0580 | ppb | 0.0309 | 0.5 | 135.701 |
| Ba 389.178 | 3.0424 | ppb | 0.2330 | 7.7 | 7.8217 |
| Be 313.042 | 0.1563 | ppb | 0.0029 | 1.9 | 3.2047 |
| Ca 370.602 | 655.7 | ppb | 4.350 | 0.7 | 1795 |
| Cd 226.502 | -0.1372 | ppb | 0.0541 | 39.4 | 18.1526 |
| Co 228.615 | 5.6544 | ppb | 0.2129 | 3.8 | 69.8708 |
| Cr 267.716 | 28.0700 | ppb | 0.1155 | 0.4 | 1567.26 |
| Cu 324.754 | 1.1321 | ppb | 0.1447 | 12.8 | 329.462 |
| Fe 271.441 | 1949.71 | ppb | 6.1080 | 0.3 | 3100.65 |
| K 766.491 | 1112.82 | ppb | 1.7260 | 0.2 | 50113.3 |
| Mg 279.078 | 5310.83 | ppb | 8.5847 | 0.2 | 14463.5 |
| Mn 257.610 | 83.9622 | ppb | 0.0850 | 0.1 | 15707.9 |
| Mo 202.032 | 5.5994 | ppb | 0.4225 | 7.5 | 43.8023 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Na 330.237 | 2574.56 | ppb | 114.983 | 4.5 | 144.868 |
| Ni 231.604 | 38.1422 | ppb | 0.2210 | 0.6 | 114.460 |
| Pb 220.353 | 0.3021 | ppb | 1.5327 | 507.3 | 12.4108 |
| Sb 206.834 | 0.8128 | ppb | 1.3779 | 169.5 | -1.0361 |
| Se 196.026 | 3.7330 | ppb | 2.2742 | 60.9 | 1.5720 |
| Sn 189.925 | -1.4735 | ppb | 1.6113 | 109.4 | -5.7774 |
| Sr 216.596 | 10.0914 | ppb | 0.1588 | 1.6 | 132.744 |
| Ti 334.941 | 0.2559 | ppb | 0.0029 | 1.1 | 38.7355 |
| Tl 190.794 | 0.9515 | ppb | 1.3749 | 144.5 | -7.4794 |
| V 292.401 | -0.0949 | ppb | 0.1031 | 108.6 | -17.1307 |
| Zn 206.200 | 68.8219 | ppb | 1.4279 | 2.1 | 76.3353 |

**680-106319-f-4-e ms (Samp)** **10/20/2014, 7:46:35 PM** **Rack 1, Tube 55**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 47.0562 | 46.9249 | 46.6446 |
| Al 308.215 | 4398.89 | 4406.10 | 4404.04 |
| As 188.980 | 89.7654 | 86.4512 | 89.2474 |
| B 249.678 | 178.225 | 179.497 | 179.973 |
| Ba 389.178 | 93.3951 | 94.0635 | 93.9614 |
| Be 313.042 | 46.8332 | 46.8450 | 46.9547 |
| Ca 370.602 | 5178 | 5171 | 5192 |
| Cd 226.502 | 45.1016 | 45.2758 | 44.9967 |
| Co 228.615 | 51.9721 | 50.8614 | 51.6576 |
| Cr 267.716 | 120.040 | 119.747 | 120.090 |
| Cu 324.754 | 93.1693 | 92.1298 | 92.9134 |
| Fe 271.441 | 6327.69 | 6339.74 | 6339.88 |
| K 766.491 | 5472.94 | 5476.12 | 5490.04 |
| Mg 279.078 | 9319.36 | 9332.96 | 9334.87 |
| Mn 257.610 | 560.292 | 558.776 | 559.175 |
| Mo 202.032 | 96.7975 | 96.2082 | 95.6472 |
| Na 330.237 | 6588.04 | 6517.28 | 6505.93 |
| Ni 231.604 | 126.935 | 124.636 | 124.917 |
| Pb 220.353 | 450.051 | 447.668 | 449.463 |
| Sb 206.834 | 46.1636 | 41.5531 | 48.8057 |
| Se 196.026 | 83.5798 | 92.4634 | 90.2743 |
| Sn 189.925 | 177.262 | 171.193 | 176.218 |
| Sr 216.596 | 99.9261 | 99.1512 | 98.0039 |
| Ti 334.941 | 91.9339 | 91.9901 | 92.1596 |
| Tl 190.794 | 39.9552 | 37.7553 | 34.7055 |
| V 292.401 | 92.0533 | 92.0771 | 92.2814 |
| Zn 206.200 | 155.452 | 153.464 | 154.319 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 46.8752 | ppb | 0.2102 | 0.4 | 3943.08 |
| Al 308.215 | 4403.01 | ppb | 3.7094 | 0.1 | 30487.1 |
| As 188.980 | 88.4880 | ppb | 1.7828 | 2.0 | 52.8936 |
| B 249.678 | 179.232 | ppb | 0.9033 | 0.5 | 3031.73 |
| Ba 389.178 | 93.8067 | ppb | 0.3601 | 0.4 | 2021.17 |
| Be 313.042 | 46.8776 | ppb | 0.0670 | 0.1 | 84620.0 |
| Ca 370.602 | 5180 | ppb | 10.84 | 0.2 | 14181 |
| Cd 226.502 | 45.1247 | ppb | 0.1410 | 0.3 | 1979.86 |
| Co 228.615 | 51.4970 | ppb | 0.5725 | 1.1 | 599.584 |

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| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Cr 267.716 | 119.959 | ppb | 0.1851 | 0.2 | 6583.33 |
| Cu 324.754 | 92.7375 | ppb | 0.5416 | 0.6 | 7117.11 |
| Fe 271.441 | 6335.77 | ppb | 6.9948 | 0.1 | 10060.7 |
| K 766.491 | 5479.70 | ppb | 9.0910 | 0.2 | 245988 |
| Mg 279.078 | 9329.06 | ppb | 8.4587 | 0.1 | 25379.9 |
| Mn 257.610 | 559.414 | ppb | 0.7856 | 0.1 | 104289 |
| Mo 202.032 | 96.2177 | ppb | 0.5752 | 0.6 | 664.261 |
| Na 330.237 | 6537.08 | ppb | 44.4919 | 0.7 | 328.704 |
| Ni 231.604 | 125.496 | ppb | 1.2540 | 1.0 | 387.635 |
| Pb 220.353 | 449.061 | ppb | 1.2418 | 0.3 | 726.261 |
| Sb 206.834 | 45.5075 | ppb | 3.6705 | 8.1 | 62.8289 |
| Se 196.026 | 88.7725 | ppb | 4.6283 | 5.2 | 41.4193 |
| Sn 189.925 | 174.891 | ppb | 3.2448 | 1.9 | 128.381 |
| Sr 216.596 | 99.0271 | ppb | 0.9671 | 1.0 | 1243.78 |
| Ti 334.941 | 92.0279 | ppb | 0.1175 | 0.1 | 27163.1 |
| Tl 190.794 | 37.4720 | ppb | 2.6363 | 7.0 | 32.2960 |
| V 292.401 | 92.1373 | ppb | 0.1254 | 0.1 | 2312.35 |
| Zn 206.200 | 154.412 | ppb | 0.9972 | 0.6 | 169.740 |

**680-106319-f-4-f msd (Samp)** **10/20/2014, 7:50:51 PM** **Rack 1, Tube 56**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 48.2490 | 48.6951 | 48.5848 |
| Al 308.215 | 4497.16 | 4501.95 | 4485.75 |
| As 188.980 | 93.9114 | 87.3015 | 88.5269 |
| B 249.678 | 183.724 | 184.534 | 184.347 |
| Ba 389.178 | 95.7117 | 95.5649 | 95.5685 |
| Be 313.042 | 47.6956 | 47.8681 | 47.6214 |
| Ca 370.602 | 5300 | 5313 | 5318 |
| Cd 226.502 | 45.8540 | 46.1036 | 45.8190 |
| Co 228.615 | 52.1333 | 52.0354 | 52.1588 |
| Cr 267.716 | 121.317 | 121.313 | 121.487 |
| Cu 324.754 | 94.6352 | 95.3722 | 94.6475 |
| Fe 271.441 | 6414.36 | 6428.71 | 6409.98 |
| K 766.491 | 5604.67 | 5593.21 | 5573.02 |
| Mg 279.078 | 9413.74 | 9447.85 | 9435.34 |
| Mn 257.610 | 571.068 | 573.347 | 574.312 |
| Mo 202.032 | 98.8421 | 98.6272 | 98.3639 |
| Na 330.237 | 6760.23 | 6587.42 | 6667.97 |
| Ni 231.604 | 127.563 | 126.252 | 128.425 |
| Pb 220.353 | 458.386 | 463.151 | 462.274 |
| Sb 206.834 | 48.2636 | 44.8451 | 48.8160 |
| Se 196.026 | 92.1266 | 99.1871 | 92.4811 |
| Sn 189.925 | 178.575 | 179.994 | 181.000 |
| Sr 216.596 | 99.6458 | 100.946 | 100.265 |
| Ti 334.941 | 94.0875 | 94.2509 | 93.7916 |
| Tl 190.794 | 37.3185 | 38.5359 | 31.3547 |
| V 292.401 | 94.7659 | 95.0019 | 94.5771 |
| Zn 206.200 | 155.530 | 158.776 | 153.757 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 48.5097 | ppb | 0.2323 | 0.5 | 4081.28 |
| Al 308.215 | 4494.95 | ppb | 8.3248 | 0.2 | 31113.5 |

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| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| As 188.980 | 89.9133 | ppb | 3.5163 | 3.9 | 53.8546 |
| B 249.678 | 184.202 | ppb | 0.4239 | 0.2 | 3114.91 |
| Ba 389.178 | 95.6151 | ppb | 0.0838 | 0.1 | 2061.28 |
| Be 313.042 | 47.7284 | ppb | 0.1266 | 0.3 | 86160.7 |
| Ca 370.602 | 5311 | ppb | 9.210 | 0.2 | 14538 |
| Cd 226.502 | 45.9255 | ppb | 0.1552 | 0.3 | 2014.62 |
| Co 228.615 | 52.1091 | ppb | 0.0651 | 0.1 | 606.640 |
| Cr 267.716 | 121.372 | ppb | 0.0993 | 0.1 | 6660.50 |
| Cu 324.754 | 94.8850 | ppb | 0.4220 | 0.4 | 7276.22 |
| Fe 271.441 | 6417.68 | ppb | 9.8009 | 0.2 | 10190.7 |
| K 766.491 | 5590.30 | ppb | 16.0247 | 0.3 | 250949 |
| Mg 279.078 | 9432.31 | ppb | 17.2522 | 0.2 | 25660.5 |
| Mn 257.610 | 572.909 | ppb | 1.6656 | 0.3 | 106803 |
| Mo 202.032 | 98.6111 | ppb | 0.2395 | 0.2 | 680.651 |
| Na 330.237 | 6671.88 | ppb | 86.4713 | 1.3 | 335.030 |
| Ni 231.604 | 127.413 | ppb | 1.0942 | 0.9 | 393.631 |
| Pb 220.353 | 461.270 | ppb | 2.5360 | 0.5 | 745.681 |
| Sb 206.834 | 47.3082 | ppb | 2.1509 | 4.5 | 65.3925 |
| Se 196.026 | 94.5983 | ppb | 3.9780 | 4.2 | 44.1412 |
| Sn 189.925 | 179.856 | ppb | 1.2182 | 0.7 | 132.159 |
| Sr 216.596 | 100.286 | ppb | 0.6504 | 0.6 | 1259.52 |
| Ti 334.941 | 94.0433 | ppb | 0.2328 | 0.2 | 27758.8 |
| Tl 190.794 | 35.7364 | ppb | 3.8431 | 10.8 | 30.3786 |
| V 292.401 | 94.7816 | ppb | 0.2128 | 0.2 | 2379.24 |
| Zn 206.200 | 156.021 | ppb | 2.5452 | 1.6 | 171.498 |

**CRI (Samp)** **10/20/2014, 7:55:07 PM** **Rack 1, Tube 57**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 10.9400 | 10.2354 | 10.8523 |
| Al 308.215 | 209.489 | 205.594 | 208.372 |
| As 188.980 | 17.5954 | 18.1210 | 22.3939 |
| B 249.678 | 107.408 | 105.367 | 106.605 |
| Ba 389.178 | 9.9921 | 10.7333 | 9.7422 |
| Be 313.042 | 4.3101 | 4.2207 | 4.2896 |
| Ca 370.602 | 544.3 | 534.8 | 542.0 |
| Cd 226.502 | 5.1627 | 5.1209 | 5.3992 |
| Co 228.615 | 10.8156 | 10.6064 | 9.8656 |
| Cr 267.716 | 10.9193 | 10.7129 | 10.6236 |
| Cu 324.754 | 21.3248 | 19.8901 | 21.5829 |
| Fe 271.441 | 56.4476 | 54.9710 | 67.8610 |
| K 766.491 | 1079.57 | 1077.68 | 1077.94 |
| Mg 279.078 | 522.330 | 511.361 | 522.091 |
| Mn 257.610 | 11.6322 | 11.4726 | 11.6913 |
| Mo 202.032 | 11.3262 | 10.1573 | 10.4737 |
| Na 330.237 | 1079.64 | 955.244 | 1072.92 |
| Ni 231.604 | 41.4529 | 42.2781 | 42.2356 |
| Pb 220.353 | 10.4719 | 8.2319 | 8.9354 |
| Sb 206.834 | 22.3089 | 21.2507 | 20.8441 |
| Se 196.026 | 22.7043 | 15.0680 | 26.8030 |
| Sn 189.925 | 54.7853 | 53.1739 | 55.0702 |
| Sr 216.596 | 10.8906 | 10.2585 | 10.5781 |
| Ti 334.941 | 10.6179 | 10.4313 | 10.6639 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Tl 190.794 | 27.8039 | 25.7176 | 24.7503 |
| V 292.401 | 10.6150 | 10.3792 | 10.6178 |
| Zn 206.200 | 22.3780 | 21.6355 | 21.7455 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 10.6759 | ppb | 0.3840 | 3.6 | 883.353 |
| Al 308.215 | 207.818 | ppb | 2.0052 | 1.0 | 1907.80 |
| As 188.980 | 19.3701 | ppb | 2.6319 | 13.6 | 6.2943 |
| B 249.678 | 106.460 | ppb | 1.0279 | 1.0 | 1824.99 |
| Ba 389.178 | 10.1558 | ppb | 0.5154 | 5.1 | 157.369 |
| Be 313.042 | 4.2735 | ppb | 0.0468 | 1.1 | 7460.71 |
| Ca 370.602 | 540.4 | ppb | 4.960 | 0.9 | 1504 |
| Cd 226.502 | 5.2276 | ppb | 0.1501 | 2.9 | 241.528 |
| Co 228.615 | 10.4292 | ppb | 0.4991 | 4.8 | 124.931 |
| Cr 267.716 | 10.7519 | ppb | 0.1517 | 1.4 | 621.068 |
| Cu 324.754 | 20.9326 | ppb | 0.9120 | 4.4 | 1794.92 |
| Fe 271.441 | 59.7599 | ppb | 7.0546 | 11.8 | 105.059 |
| K 766.491 | 1078.39 | ppb | 1.0224 | 0.1 | 48569.0 |
| Mg 279.078 | 518.594 | ppb | 6.2648 | 1.2 | 1432.27 |
| Mn 257.610 | 11.5987 | ppb | 0.1132 | 1.0 | 2195.43 |
| Mo 202.032 | 10.6524 | ppb | 0.6046 | 5.7 | 78.4952 |
| Na 330.237 | 1035.93 | ppb | 69.9610 | 6.8 | 73.7693 |
| Ni 231.604 | 41.9889 | ppb | 0.4647 | 1.1 | 126.303 |
| Pb 220.353 | 9.2130 | ppb | 1.1455 | 12.4 | 26.4088 |
| Sb 206.834 | 21.4679 | ppb | 0.7561 | 3.5 | 28.2910 |
| Se 196.026 | 21.5251 | ppb | 5.9557 | 27.7 | 9.8308 |
| Sn 189.925 | 54.3431 | ppb | 1.0226 | 1.9 | 36.6809 |
| Sr 216.596 | 10.5757 | ppb | 0.3161 | 3.0 | 136.225 |
| Ti 334.941 | 10.5710 | ppb | 0.1232 | 1.2 | 3078.03 |
| Tl 190.794 | 26.0906 | ppb | 1.5606 | 6.0 | 20.3897 |
| V 292.401 | 10.5373 | ppb | 0.1370 | 1.3 | 252.507 |
| Zn 206.200 | 21.9197 | ppb | 0.4007 | 1.8 | 25.0240 |

**CCV (Samp)** **10/20/2014, 7:59:24 PM** **Rack 1, Tube 58**

**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 504.104 | 497.049 | 502.069 |
| Al 308.215 | 4768.78 | 4775.05 | 4768.48 |
| As 188.980 | 467.679 | 468.261 | 475.566 |
| B 249.678 | 479.103 | 483.602 | 484.168 |
| Ba 389.178 | 4937.37 | 4929.48 | 4929.84 |
| Be 313.042 | 494.401 | 492.505 | 493.226 |
| Ca 370.602 | 5009 | 5016 | 5023 |
| Cd 226.502 | 487.600 | 489.493 | 489.118 |
| Co 228.615 | 498.271 | 500.309 | 500.154 |
| Cr 267.716 | 4974.45 | 4986.87 | 4990.39 |
| Cu 324.754 | 5069.85 | 4937.11 | 4989.28 |
| Fe 271.441 | 4861.39 | 4863.57 | 4866.70 |
| K 766.491 | 9910.00 | 9924.88 | 9915.57 |
| Mg 279.078 | 4828.88 | 4842.23 | 4846.74 |
| Mn 257.610 | 5088.72 | 5122.72 | 5111.36 |
| Mo 202.032 | 490.159 | 491.964 | 494.538 |
| Na 330.237 | 7234.51 | 7459.39 | 7170.65 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ni 231.604 | 2487.37 | 2497.65 | 2494.76 |
| Pb 220.353 | 492.075 | 497.822 | 496.414 |
| Sb 206.834 | 942.519 | 944.862 | 947.003 |
| Se 196.026 | 4835.59 | 4828.85 | 4834.74 |
| Sn 189.925 | 4884.71 | 4900.50 | 4907.33 |
| Sr 216.596 | 2446.96 | 2458.98 | 2467.99 |
| Ti 334.941 | 486.921 | 487.495 | 486.632 |
| Tl 190.794 | 5017.86 | 5005.44 | 5026.20 |
| V 292.401 | 4943.54 | 4941.01 | 4951.29 |
| Zn 206.200 | 2466.24 | 2466.88 | 2471.04 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 501.074 | ppb | 3.6315 | 0.7 | 42305.1 |
| Al 308.215 | 4770.77 | ppb | 3.7117 | 0.1 | 33490.8 |
| As 188.980 | 470.502 | ppb | 4.3952 | 0.9 | 310.469 |
| B 249.678 | 482.291 | ppb | 2.7752 | 0.6 | 8133.43 |
| Ba 389.178 | 4932.23 | ppb | 4.4538 | 0.1 | 108897 |
| Be 313.042 | 493.377 | ppb | 0.9568 | 0.2 | 893546 |
| Ca 370.602 | 5016 | ppb | 7.042 | 0.1 | 14062 |
| Cd 226.502 | 488.737 | ppb | 1.0027 | 0.2 | 21038.8 |
| Co 228.615 | 499.578 | ppb | 1.1344 | 0.2 | 5783.98 |
| Cr 267.716 | 4983.90 | ppb | 8.3742 | 0.2 | 271891 |
| Cu 324.754 | 4998.75 | ppb | 66.8736 | 1.3 | 370353 |
| Fe 271.441 | 4863.88 | ppb | 2.6699 | 0.1 | 7830.69 |
| K 766.491 | 9916.82 | ppb | 7.5165 | 0.1 | 445014 |
| Mg 279.078 | 4839.28 | ppb | 9.2912 | 0.2 | 13077.6 |
| Mn 257.610 | 5107.60 | ppb | 17.3110 | 0.3 | 951264 |
| Mo 202.032 | 492.220 | ppb | 2.2007 | 0.4 | 3371.82 |
| Na 330.237 | 7288.19 | ppb | 151.671 | 2.1 | 307.689 |
| Ni 231.604 | 2493.26 | ppb | 5.3015 | 0.2 | 7783.70 |
| Pb 220.353 | 495.437 | ppb | 2.9956 | 0.6 | 803.922 |
| Sb 206.834 | 944.794 | ppb | 2.2428 | 0.2 | 1404.05 |
| Se 196.026 | 4833.06 | ppb | 3.6710 | 0.1 | 2256.03 |
| Sn 189.925 | 4897.52 | ppb | 11.6021 | 0.2 | 3720.80 |
| Sr 216.596 | 2457.98 | ppb | 10.5545 | 0.4 | 30546.7 |
| Ti 334.941 | 487.016 | ppb | 0.4396 | 0.1 | 143866 |
| Tl 190.794 | 5016.50 | ppb | 10.4461 | 0.2 | 5516.16 |
| V 292.401 | 4945.28 | ppb | 5.3557 | 0.1 | 125418 |
| Zn 206.200 | 2468.05 | ppb | 2.6085 | 0.1 | 2692.83 |

**CCB (Samp)** **10/20/2014, 8:03:41 PM** **Rack 1, Tube 59**
**Weight: 1** **Volume: 1** **Dilution: 1**

| Label | Replicates Concentration | | |
|---|---|---|---|
| Ag 328.068 | 0.0519 | 0.2120 | 0.1254 |
| Al 308.215 | 2.1293 | 2.7947 | 3.3672 |
| As 188.980 | -1.4882u | 3.5810 | -3.0606u |
| B 249.678 | 9.0243 | 7.7578 | 7.5052 |
| Ba 389.178 | 0.1985 | 1.1101 | 1.2420 |
| Be 313.042 | 0.0535 | 0.0578 | 0.0727 |
| Ca 370.602 | -0.5216u | 1.753 | 2.392 |
| Cd 226.502 | 0.1756 | -0.0052u | -0.0625u |
| Co 228.615 | -0.2488u | 0.3172 | 0.1854 |
| Cr 267.716 | 0.3597 | 0.5225 | 0.7784 |

| Label | Replicates Concentration | | |
|---|---|---|---|
| Cu 324.754 | 0.3810 | 0.1827 | 0.1802 |
| Fe 271.441 | 7.4619 | 1.1365 | 8.3810 |
| K 766.491 | 2.6581 | 2.8457 | 3.4169 |
| Mg 279.078 | 1.5273 | 0.9522 | -2.6300u |
| Mn 257.610 | 0.6301 | 0.6837 | 0.8798 |
| Mo 202.032 | -0.0648u | 0.4312 | 0.2434 |
| Na 330.237 | 3.1570 | 119.958 | -31.1643u |
| Ni 231.604 | -0.1892u | 0.4119 | 0.1040 |
| Pb 220.353 | 0.1937 | -1.2719u | -0.3746u |
| Sb 206.834 | -1.3793u | -1.0887u | -0.8194u |
| Se 196.026 | 9.9069 | -1.6674u | 1.0704 |
| Sn 189.925 | 1.0008 | -1.3213u | 2.3431 |
| Sr 216.596 | 0.2660 | -0.0565u | 0.4516 |
| Ti 334.941 | 0.1552 | 0.1049 | 0.1704 |
| Tl 190.794 | 3.0450 | 4.0700 | 2.4354 |
| V 292.401 | 0.7459 | 0.6770 | 0.7183 |
| Zn 206.200 | 1.0413 | 1.1276 | 0.6994 |

| Label | Sol'n Conc. | Units | SD | %RSD | Int. (c/s) |
|---|---|---|---|---|---|
| Ag 328.068 | 0.1298 | ppb | 0.0801 | 61.7 | -8.1253 |
| Al 308.215 | 2.7637 | ppb | 0.6195 | 22.4 | 510.437 |
| As 188.980 | -0.3226 | ppb | 3.4709 | 1075.9 | -6.9875 |
| B 249.678 | 8.0958 | ppb | 0.8140 | 10.1 | 174.395 |
| Ba 389.178 | 0.8502 | ppb | 0.5682 | 66.8 | -48.9867 |
| Be 313.042 | 0.0613 | ppb | 0.0101 | 16.5 | -167.538 |
| Ca 370.602 | 1.208 | ppb | 1.532 | 126.8 | 24.13 |
| Cd 226.502 | 0.0360 | ppb | 0.1243 | 345.5 | 18.2055 |
| Co 228.615 | 0.0846 | ppb | 0.2962 | 350.1 | 5.4408 |
| Cr 267.716 | 0.5535 | ppb | 0.2111 | 38.1 | 64.7517 |
| Cu 324.754 | 0.2480 | ppb | 0.1152 | 46.5 | 262.907 |
| Fe 271.441 | 5.6598 | ppb | 3.9442 | 69.7 | 17.9397 |
| K 766.491 | 2.9735 | ppb | 0.3952 | 13.3 | 331.283 |
| Mg 279.078 | -0.0502 | ppb | 2.2526 | 4489.0 | 22.0949 |
| Mn 257.610 | 0.7312 | ppb | 0.1314 | 18.0 | 168.040 |
| Mo 202.032 | 0.2033 | ppb | 0.2504 | 123.2 | 6.9283 |
| Na 330.237 | 30.6502 | ppb | 79.2236 | 258.5 | 26.8370 |
| Ni 231.604 | 0.1089 | ppb | 0.3006 | 276.1 | -4.5168 |
| Pb 220.353 | -0.4843 | ppb | 0.7390 | 152.6 | 10.9994 |
| Sb 206.834 | -1.0958 | ppb | 0.2800 | 25.6 | -4.0553 |
| Se 196.026 | 3.1033 | ppb | 6.0490 | 194.9 | 1.2322 |
| Sn 189.925 | 0.6742 | ppb | 1.8539 | 275.0 | -4.1445 |
| Sr 216.596 | 0.2204 | ppb | 0.2571 | 116.7 | 8.3163 |
| Ti 334.941 | 0.1435 | ppb | 0.0343 | 23.9 | -3.9572 |
| Tl 190.794 | 3.1834 | ppb | 0.8261 | 25.9 | -4.8016 |
| V 292.401 | 0.7137 | ppb | 0.0347 | 4.9 | 4.6763 |
| Zn 206.200 | 0.9561 | ppb | 0.2265 | 23.7 | 2.0605 |

# METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah  Job No.: 680-106200-2

SDG No.: 680-106200-02

Batch Number: 353262  Batch Start Date: 10/13/14 09:39  Batch Analyst: West, Ryan

Batch Method: 3050B  Batch End Date: 10/13/14 15:34

| Lab Sample ID | Client Sample ID | Method Chain | Basis | CalcMsg | InitialAmount | FinalAmount | MS_Ag_LCS_SPK 00026 | MS_LCS1_WK 00014 | MS_LCS2_wk 00166 |
|---|---|---|---|---|---|---|---|---|---|
| MB 680-353262/1 | | 3050B, 6010C | | CALC NOT SET TO RUN | 1.01 g | 100 mL | | | |
| LCS 680-353262/2 | | 3050B, 6010C | | CALC NOT SET TO RUN | 1.04 g | 100 mL | 1 mL | 1 mL | 1 mL |
| 680-106200-A-51 MS | | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.15 g | 100 mL | 1 mL | 1 mL | 1 mL |
| 680-106200-A-51 MSD | | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.15 g | 100 mL | 1 mL | 1 mL | 1 mL |
| 680-106200-B-24 | CV0005AC-CS12 | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.17 g | 100 mL | | | |

| Batch Notes | |
|---|---|
| Analyst | CRW |
| Balance ID | ME 25 |
| Blank Soil Lot Number | 3304789 |
| Hydrogen peroxide lot number | 3734728 |
| Lot # of hydrochloric acid | 3787142 |
| Lot # of Nitric Acid | 3787092 |
| Hood ID or number | FH8 |
| Hot Block ID number | 8 |
| Nominal Amount Used | 1 g |
| Oven, Bath or Block Temperature 1 | 97 Degrees C |
| Oven, Bath or Block Temperature 2 | 97 Degrees C |
| Pipette ID | ME16 |
| Perform Calculation (0=No, 1=Yes) | 0 |
| ID number of the thermometer | ME Prep 15 |
| Digestion Tube/Cup Lot # | 3769883 |
| Uncorrected Temperature | 97 Celsius |
| Uncorrected Temperature 2 | 97 Degrees C |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Batch Number: 353312 Batch Start Date: 10/13/14 12:36 Batch Analyst: West, Ryan

Batch Method: 3050B Batch End Date: 10/13/14 16:45

| Lab Sample ID | Client Sample ID | Method Chain | Basis | CalcMsg | InitialAmount | FinalAmount | MS_Ag_LCS_SPK 00026 | MS_LCS1_WK 00014 | MS_LCS2_wk 00166 |
|---|---|---|---|---|---|---|---|---|---|
| MB 680-353312/1 | | 3050B, 6010C | | CALC NOT SET TO RUN | 1.08 g | 100 mL | | | |
| LCS 680-353312/2 | | 3050B, 6010C | | CALC NOT SET TO RUN | 1.01 g | 100 mL | 1 mL | 1 mL | 1 mL |
| 680-106200-A-1 MS | | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.01 g | 100 mL | 1 mL | 1 mL | 1 mL |
| 680-106200-A-1 MSD | | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.01 g | 100 mL | 1 mL | 1 mL | 1 mL |
| 680-106200-B-26 | CV0005AC-CS24 | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.00 g | 100 mL | | | |
| 680-106200-B-25 | CV0005AC-CS18 | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.18 g | 100 mL | | | |
| 680-106200-B-28 | CV0748WW-CS12 | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.03 g | 100 mL | | | |
| 680-106200-B-20 | CV0971WW-CS12 | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.17 g | 100 mL | | | |
| 680-106200-B-23 | CV0005AC-CS6 | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.06 g | 100 mL | | | |

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Batch Number: 353312 Batch Start Date: 10/13/14 12:36 Batch Analyst: West, Ryan

Batch Method: 3050B Batch End Date: 10/13/14 16:45

| Batch Notes | |
|---|---|
| Analyst | CRW |
| Balance ID | ME 25 |
| Blank Soil Lot Number | 3304789 |
| Hydrogen peroxide lot number | 3734728 |
| Lot # of hydrochloric acid | 3787142 |
| Lot # of Nitric Acid | 3787092 & 3787097 |
| Hood ID or number | FH8 |
| Hot Block ID number | 10 |
| Nominal Amount Used | 1 g |
| Oven, Bath or Block Temperature 1 | 96 Degrees C |
| Oven, Bath or Block Temperature 2 | 95 Degrees C |
| Pipette ID | ME16 |
| Perform Calculation (0=No, 1=Yes) | 0 |
| ID number of the thermometer | ME Prep 15 |
| Digestion Tube/Cup Lot # | 3769883 |
| Uncorrected Temperature | 96 Celsius |
| Uncorrected Temperature 2 | 95 Degrees C |

| Basis | Basis Description |
|---|---|
| T | Total/NA |

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Batch Number: 353346 Batch Start Date: 10/13/14 14:24 Batch Analyst: West, Ryan

Batch Method: 3050B Batch End Date: 10/14/14 09:31

| Lab Sample ID | Client Sample ID | Method Chain | Basis | CalcMsg | InitialAmount | FinalAmount | MS_Ag_LCS_SPK 00026 | MS_LCS1_WK 00014 | MS_LCS2_wk 00166 |
|---|---|---|---|---|---|---|---|---|---|
| MB 680-353346/1 | | 3050B, 6010C | | CALC NOT SET TO RUN | 1.04 g | 100 mL | | | |
| LCS 680-353346/2 | | 3050B, 6010C | | CALC NOT SET TO RUN | 1.08 g | 100 mL | 1 mL | 1 mL | 1 mL |
| 680-106200-B-18 | CV0971WW-CS6 | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.13 g | 100 mL | | | |
| 680-106200-B-18 MS | CV0971WW-CS6 | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.13 g | 100 mL | 1 mL | 1 mL | 1 mL |
| 680-106200-B-18 MSD | CV0971WW-CS6 | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.12 g | 100 mL | 1 mL | 1 mL | 1 mL |
| 680-106200-B-29 | CV0748WW-CS18 | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.01 g | 100 mL | | | |
| 680-106200-B-27 | CV0748WW-CS6 | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.11 g | 100 mL | | | |
| 680-106200-B-21 | CV0971WW-CS18 | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.11 g | 100 mL | | | |
| 680-106200-B-22 | CV0971WW-CS24 | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.02 g | 100 mL | | | |
| 680-106200-B-19 | CV0971WW-CSD6 | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.10 g | 100 mL | | | |
| 680-106200-B-30 | CV0748WW-CS24 | 3050B, 6010C | T | CALC NOT SET TO RUN | 1.16 g | 100 mL | | | |

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

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-106200-2

SDG No.: 680-106200-02

Batch Number: 353346 Batch Start Date: 10/13/14 14:24 Batch Analyst: West, Ryan

Batch Method: 3050B Batch End Date: 10/14/14 09:31

| Batch Notes | |
|---|---|
| Analyst | CRW |
| Balance ID | ME 25 |
| Blank Soil Lot Number | 3304789 |
| Hydrogen peroxide lot number | 3734728 |
| Lot # of hydrochloric acid | 3787142 |
| Lot # of Nitric Acid | 3787097 |
| Hood ID or number | FH8 |
| Hot Block ID number | 9 |
| Nominal Amount Used | 1 g |
| Oven, Bath or Block Temperature 1 | 97 Degrees C |
| Oven, Bath or Block Temperature 2 | 96 Degrees C |
| Pipette ID | ME16 |
| Perform Calculation (0=No, 1=Yes) | 0 |
| ID number of the thermometer | ME Prep 15 |
| Digestion Tube/Cup Lot # | 3769883 |
| Uncorrected Temperature | 97 Celsius |
| Uncorrected Temperature 2 | 96 Degrees C |

| 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.

# Shipping and Receiving Documents

Serial Number 89199

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

| PROJECT REFERENCE | PROJECT NO. | PROJECT LOCATION (STATE) |
|---|---|---|
| 35th Ave | 20140786-1006 | AL |
| TAL (LAB) PROJECT MANAGER: Lisa Harvey | P.O. NUMBER | CONTRACT NO. |
| CLIENT (SITE) PM: Russell Henton | CLIENT PHONE | CLIENT FAX |
| CLIENT NAME: OTIE | CLIENT E-MAIL | |
| CLIENT ADDRESS | | |
| COMPANY CONTRACTING THIS WORK (if applicable) | | |

PAGE 2 OF 3

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ✓

DATE DUE 7 day

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

REQUIRED ANALYSIS: Metals (As, Pb, Hg, Se) / PAHs

PRESERVATIVE

| SAMPLE DATE | SAMPLE TIME | SAMPLE IDENTIFICATION | COMPOSITE (C) OR GRAB (G) INDICATE | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | Metals | PAHs | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/8/14 | 13:00 | CV0005BB-CS24 | C | | X | | | X | X | | | | | | | | |
| 10/8/14 | 09:20 | CV0005E-CS6 | C | | X | | | X | X | | | | | | | | |
| 10/8/14 | 09:30 | CV0005E-CS12 | C | | X | | | X | X | | | | | | | | |
| 10/8/14 | 09:40 | CV0005E-CS18 | C | | X | | | X | X | | | | | | | | |
| 10/8/14 | 09:50 | CV0005E-CS24 | C | | X | | | X | X | | | | | | | | |
| 10/9/14 | 13:40 | CV0971WW-CS6 | C | | X | | | X | X | | | | | | | | MS/MSD if possible |
| 10/9/14 | 13:40 | CV0971WW-CSD6 | C | | X | | | X | X | | | | | | | | |
| 10/9/14 | 13:50 | CV0971WW-CS12 | C | | X | | | X | X | | | | | | | | |
| 10/9/14 | 14:00 | CV0971WW-CS18 | C | | X | | | X | X | | | | | | | | |
| 10/9/14 | 14:10 | CV0971WW-CS24 | C | | X | | | X | X | | | | | | | | |
| 10/9/14 | 10:10 | CV0005AC-CS6 | C | | X | | | X | X | | | | | | | | |
| 10/9/14 | 10:20 | CV0005AC-CS12 | C | | X | | | X | X | | | | | | | | |

| RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME |
|---|---|---|---|---|---|---|---|---|
| [signature] | 10/10/14 | 16:00 | | | | | | |
| RECEIVED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: (SIGNATURE) | DATE | TIME |
| | | | | | | | | |

LABORATORY USE ONLY

| RECEIVED FOR LABORATORY BY: (SIGNATURE) | DATE | TIME | CUSTODY INTACT | CUSTODY SEAL NO. | SAVANNAH LOG NO. | LABORATORY REMARKS |
|---|---|---|---|---|---|---|
| [signature] | 10/11/14 | 0933 | YES ○ NO ○ | | 680 106200 | 5.2/1.8/4.8/0.8 |

TAL8240-680 (1008)

Serial Number 89198

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING


TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165


Alternate Laboratory Name/Location

Phone:
Fax:

| | | | |
|---|---|---|---|
| PROJECT REFERENCE: 35th Ave | PROJECT NO.: 2014078-1006 | PROJECT LOCATION (STATE): AL | PAGE 3 OF 3 |
| TAL (LAB) PROJECT MANAGER: Lisa Harvey | P.O. NUMBER | CONTRACT NO. | STANDARD REPORT DELIVERY ○ |
| CLIENT (SITE) PM: Russell Henderson | CLIENT PHONE | CLIENT FAX | DATE DUE |
| CLIENT NAME: OTIE | CLIENT E-MAIL | | EXPEDITED REPORT DELIVERY (SURCHARGE) ✓ |
| CLIENT ADDRESS | | | DATE DUE: 7 day |
| COMPANY CONTRACTING THIS WORK (if applicable) | | | NUMBER OF COOLERS SUBMITTED PER SHIPMENT: |

MATRIX TYPE — COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: Al, As, Fe, Pb; PAHs

PRESERVATIVE

| SAMPLE DATE | SAMPLE TIME | SAMPLE IDENTIFICATION | COMPOSITE (C) OR GRAB (G) | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | Al, As, Fe, Pb | PAHs | | | | | | | | | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10/9/14 | 10:30 | CV0005AC-CS18 | C | | X | | | X | X | | | | | | | | | |
| 10/9/14 | 10:40 | CV0005AC-CS24 | C | | X | | | X | X | | | | | | | | | |
| 10/9/14 | 12:40 | CV0748WN-CS6 | C | | X | | | X | X | | | | | | | | | |
| 10/9/14 | 12:50 | CV0748WN-CS12 | C | | X | | | X | X | | | | | | | | | |
| 10/9/14 | 13:00 | CV0748WN-CS18 | C | | X | | | X | X | | | | | | | | | |
| 10/9/14 | 13:10 | CV0748WN-CS24 | C | | X | | | X | X | | | | | | | | | |

| RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME |
|---|---|---|---|---|---|---|---|---|
| [signature] | 10/10/14 | 16:00 | | | | | | |
| **RECEIVED BY: (SIGNATURE)** | **DATE** | **TIME** | **RECEIVED BY: (SIGNATURE)** | **DATE** | **TIME** | **RECEIVED BY: (SIGNATURE)** | **DATE** | **TIME** |
| | | | | | | | | |

LABORATORY USE ONLY

| RECEIVED FOR LABORATORY BY: (SIGNATURE) | DATE | TIME | CUSTODY INTACT | CUSTODY SEAL NO. | SAVANNAH LOG NO. | LABORATORY REMARKS |
|---|---|---|---|---|---|---|
| [signature] | 10/11/14 | 0933 | YES ○ NO ○ | | 680 106200 | 5.2/18/4.8/0.8°C |



TAL8240-680 (1008)

# Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106200-2
SDG Number: 680-106200-02

**Login Number: 106200**
**List Number: 1**
**Creator: Banda, Christy S**

**List Source: TestAmerica Savannah**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | N/A | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-106200-2
TestAmerica Sample Delivery Group: 680-106200-02
Client Project/Site: 35th Avenue Superfund Site

For:
Oneida Total Integrated Enterprises LLC
1220 Kennestone Circle
Suite 106
Marietta, Georgia 30060

Attn: Ms. Limari F Krebs

*Authorized for release by:*
*10/21/2014 3:29:55 PM*

Lisa Harvey, Project Manager II
(912)354-7858 e.3221
lisa.harvey@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

*The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.*

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

## Job ID: 680-106200-2

**Laboratory: TestAmerica Savannah**

**Narrative**

# CASE NARRATIVE
## Client: Oneida Total Integrated Enterprises LLC
## Project: 35th Avenue Superfund Site
## Report Number: 680-106200-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

No additional analytical or quality issues were noted, other than those described below or in the Definitions/Glossary page.

**RECEIPT**
The samples were received on 10/11/2014 9:33 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.8º C, 1.8º C, 4.8º C and 5.2º C.

**SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH**
Samples CV0971WW-CS6 (680-106200-18), CV0971WW-CSD6 (680-106200-19), CV0971WW-CS12 (680-106200-20), CV0971WW-CS18 (680-106200-21), CV0971WW-CS24 (680-106200-22), CV0005AC-CS6 (680-106200-23), CV0005AC-CS12 (680-106200-24), CV0005AC-CS18 (680-106200-25), CV0005AC-CS24 (680-106200-26), CV0748WW-CS6 (680-106200-27), CV0748WW-CS12 (680-106200-28), CV0748WW-CS18 (680-106200-29) and CV0748WW-CS24 (680-106200-30) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW846 Method 8270D.

Method(s) 8270D_LL_PAH: Manual integration was performed on the following sample(s): CV0971WW-CS12 (680-106200-20), CV0971WW-CS18 (680-106200-21), CV0971WW-CSD6 (680-106200-19), CV0005AC-CS12 (680-106200-24), CV0005AC-CS18 (680-106200-25), CV0005AC-CS24 (680-106200-26), CV0005AC-CS6 (680-106200-23), CV0748WW-CS12 (680-106200-28), CV0748WW-CS18 (680-106200-29), CV0748WW-CS24 (680-106200-30), CV0748WW-CS6 (680-106200-27), CV0971WW-CS24 (680-106200-22), CV0971WW-CS6 (680-106200-18 MSD).

Method(s) 8270D_LL_PAH: The following sample(s) was diluted due to the nature of the sample matrix: CV0005AC-CS6 (680-106200-23), CV0748WW-CS6 (680-106200-27), CV0971WW-CS6 (680-106200-18 MSD), CV0971WW-CS6 (680-106200-18). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Several analytes have recovery outside criteria low for the MS of sample CV0971WW-CS6 (680-106200-18) in batch 680-353862.

Several analytes have recovery outside criteria high for the MSD of sample CV0971WW-CS6 (680-106200-18) in batch 680-353862. Several analytes exceeded the RPD limit.

Refer to the QC report for details.

**METALS (ICP)**
Samples CV0971WW-CS6 (680-106200-18), CV0971WW-CSD6 (680-106200-19), CV0971WW-CS12 (680-106200-20), CV0971WW-CS18 (680-106200-21), CV0971WW-CS24 (680-106200-22), CV0005AC-CS6 (680-106200-23), CV0005AC-CS12 (680-106200-24), CV0005AC-CS18 (680-106200-25), CV0005AC-CS24 (680-106200-26), CV0748WW-CS6 (680-106200-27), CV0748WW-CS12 (680-106200-28), CV0748WW-CS18 (680-106200-29) and CV0748WW-CS24 (680-106200-30) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C.

Aluminum and Lead have recovery outside criteria low for the MS of sample CV0971WW-CS6 (680-106200-18) in batch 680-353949. Arsenic and Iron failed the recovery criteria high.

Iron recovery is outside criteria low for the MSD of sample CV0971WW-CS6 (680-106200-18) in batch 680-353949. Iron exceeded the RPD limit.

## Job ID: 680-106200-2 (Continued)

**Laboratory: TestAmerica Savannah (Continued)**

**PERCENT SOLIDS/MOISTURE**

Samples CV0971WW-CS6 (680-106200-18), CV0971WW-CSD6 (680-106200-19), CV0971WW-CS12 (680-106200-20), CV0971WW-CS18 (680-106200-21), CV0971WW-CS24 (680-106200-22), CV0005AC-CS6 (680-106200-23), CV0005AC-CS12 (680-106200-24), CV0005AC-CS18 (680-106200-25), CV0005AC-CS24 (680-106200-26), CV0748WW-CS6 (680-106200-27), CV0748WW-CS12 (680-106200-28), CV0748WW-CS18 (680-106200-29) and CV0748WW-CS24 (680-106200-30) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP.

# Sample Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 680-106200-18 | CV0971WW-CS6 | Solid | 10/09/14 13:40 | 10/11/14 09:33 |
| 680-106200-19 | CV0971WW-CSD6 | Solid | 10/09/14 13:40 | 10/11/14 09:33 |
| 680-106200-20 | CV0971WW-CS12 | Solid | 10/09/14 13:50 | 10/11/14 09:33 |
| 680-106200-21 | CV0971WW-CS18 | Solid | 10/09/14 14:00 | 10/11/14 09:33 |
| 680-106200-22 | CV0971WW-CS24 | Solid | 10/09/14 14:10 | 10/11/14 09:33 |
| 680-106200-23 | CV0005AC-CS6 | Solid | 10/09/14 10:10 | 10/11/14 09:33 |
| 680-106200-24 | CV0005AC-CS12 | Solid | 10/09/14 10:20 | 10/11/14 09:33 |
| 680-106200-25 | CV0005AC-CS18 | Solid | 10/09/14 10:30 | 10/11/14 09:33 |
| 680-106200-26 | CV0005AC-CS24 | Solid | 10/09/14 10:40 | 10/11/14 09:33 |
| 680-106200-27 | CV0748WW-CS6 | Solid | 10/09/14 12:40 | 10/11/14 09:33 |
| 680-106200-28 | CV0748WW-CS12 | Solid | 10/09/14 12:50 | 10/11/14 09:33 |
| 680-106200-29 | CV0748WW-CS18 | Solid | 10/09/14 13:00 | 10/11/14 09:33 |
| 680-106200-30 | CV0748WW-CS24 | Solid | 10/09/14 13:10 | 10/11/14 09:33 |

# Method Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8270D_LL_PAH | Semivolatile Organic Compounds (GC/MS) Low level PAH | SW846 | TAL SAV |
| 6010C | Metals (ICP) | SW846 | TAL SAV |
| Moisture | Percent Moisture | EPA | TAL SAV |

**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 SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

## Qualifiers

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| D | Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples. |
| F1 | MS and/or MSD Recovery exceeds the control limits |
| 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. |
| D | Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D. |
| F2 | MS/MSD RPD exceeds control limits |
| U | Indicates the analyte was analyzed for but not detected. |

### Metals

| Qualifier | Qualifier Description |
|---|---|
| 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. |
| F1 | MS and/or MSD Recovery exceeds the control limits |
| F2 | MS/MSD RPD exceeds control limits |
| U | Indicates the analyte was analyzed for but not detected. |

## Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|---|---|
| ¤ | 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) |

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

## Client Sample ID: CV0971WW-CS6

**Lab Sample ID: 680-106200-18**

**Date Collected: 10/09/14 13:40**
**Date Received: 10/11/14 09:33**

**Matrix: Solid**
**Percent Solids: 88.0**

### Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 64 | J | 76 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:12 | 10 |
| Acenaphthylene | 160 | | 76 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:12 | 10 |
| Anthracene | 230 | | 76 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:12 | 10 |
| Benzo[a]anthracene | 1400 | | 76 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:12 | 10 |
| Benzo[a]pyrene | 1300 | | 76 | 14 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:12 | 10 |
| Benzo[b]fluoranthene | 1900 | | 76 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:12 | 10 |
| Benzo[g,h,i]perylene | 930 | | 76 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:12 | 10 |
| Benzo[k]fluoranthene | 870 | | 76 | 23 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:12 | 10 |
| Chrysene | 1600 | | 76 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:12 | 10 |
| Dibenz(a,h)anthracene | 450 | | 76 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:12 | 10 |
| Fluoranthene | 2400 | | 76 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:12 | 10 |
| Fluorene | 81 | | 76 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:12 | 10 |
| Indeno[1,2,3-cd]pyrene | 720 | | 76 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:12 | 10 |
| 1-Methylnaphthalene | 99 | | 76 | 35 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:12 | 10 |
| 2-Methylnaphthalene | 110 | | 76 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:12 | 10 |
| Naphthalene | 100 | | 76 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:12 | 10 |
| Phenanthrene | 1200 | | 76 | 27 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:12 | 10 |
| Pyrene | 2500 | | 76 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:12 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *0* | *D* | *36 - 131* | *10/15/14 10:01* | *10/16/14 13:12* | *10* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 14000 | | 20 | 10 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 17:12 | 1 |
| Arsenic | 28 | | 2.0 | 0.59 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 17:12 | 1 |
| Iron | 39000 | | 20 | 7.0 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 17:12 | 1 |
| Lead | 170 | | 1.0 | 0.53 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 17:12 | 1 |

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

## Client Sample ID: CV0971WW-CSD6

**Lab Sample ID: 680-106200-19**

**Date Collected: 10/09/14 13:40**
**Matrix: Solid**
**Date Received: 10/11/14 09:33**
**Percent Solids: 87.7**

### Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 96 | J | 150 | 75 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 22:44 | 20 |
| Acenaphthylene | 190 | | 150 | 75 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 22:44 | 20 |
| Anthracene | 200 | | 150 | 75 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 22:44 | 20 |
| Benzo[a]anthracene | 1100 | | 150 | 75 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 22:44 | 20 |
| Benzo[a]pyrene | 1300 | | 150 | 27 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 22:44 | 20 |
| Benzo[b]fluoranthene | 2000 | | 150 | 75 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 22:44 | 20 |
| Benzo[g,h,i]perylene | 830 | | 150 | 75 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 22:44 | 20 |
| Benzo[k]fluoranthene | 690 | | 150 | 46 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 22:44 | 20 |
| Chrysene | 1500 | | 150 | 75 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 22:44 | 20 |
| Dibenz(a,h)anthracene | 310 | | 150 | 75 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 22:44 | 20 |
| Fluoranthene | 1900 | | 150 | 75 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 22:44 | 20 |
| Fluorene | 85 | J | 150 | 75 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 22:44 | 20 |
| Indeno[1,2,3-cd]pyrene | 620 | | 150 | 75 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 22:44 | 20 |
| 1-Methylnaphthalene | 120 | J | 150 | 71 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 22:44 | 20 |
| 2-Methylnaphthalene | 130 | J | 150 | 75 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 22:44 | 20 |
| Naphthalene | 110 | J | 150 | 75 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 22:44 | 20 |
| Phenanthrene | 920 | | 150 | 55 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 22:44 | 20 |
| Pyrene | 2400 | | 150 | 75 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 22:44 | 20 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *0* | *D* | *36 - 131* | *10/14/14 10:14* | *10/15/14 22:44* | *20* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 13000 | | 21 | 10 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:48 | 1 |
| Arsenic | 29 | | 2.1 | 0.61 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:48 | 1 |
| Iron | 41000 | | 21 | 7.3 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:48 | 1 |
| Lead | 180 | | 1.0 | 0.55 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:48 | 1 |

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

## Client Sample ID: CV0971WW-CS12

**Lab Sample ID: 680-106200-20**

**Date Collected: 10/09/14 13:50**
**Matrix: Solid**
**Date Received: 10/11/14 09:33**
**Percent Solids: 91.6**

### Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 73 | U | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:06 | 10 |
| Acenaphthylene | 73 | U | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:06 | 10 |
| Anthracene | 73 | U | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:06 | 10 |
| **Benzo[a]anthracene** | **51** | **J** | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:06 | 10 |
| **Benzo[a]pyrene** | **55** | **J** | 73 | 13 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:06 | 10 |
| **Benzo[b]fluoranthene** | **78** | | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:06 | 10 |
| **Benzo[g,h,i]perylene** | **44** | **J** | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:06 | 10 |
| **Benzo[k]fluoranthene** | **36** | **J** | 73 | 22 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:06 | 10 |
| **Chrysene** | **67** | **J** | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:06 | 10 |
| Dibenz(a,h)anthracene | 73 | U | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:06 | 10 |
| **Fluoranthene** | **80** | | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:06 | 10 |
| Fluorene | 73 | U | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:06 | 10 |
| Indeno[1,2,3-cd]pyrene | 73 | U | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:06 | 10 |
| 1-Methylnaphthalene | 73 | U | 73 | 34 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:06 | 10 |
| 2-Methylnaphthalene | 73 | U | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:06 | 10 |
| Naphthalene | 73 | U | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:06 | 10 |
| **Phenanthrene** | **63** | **J** | 73 | 26 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:06 | 10 |
| **Pyrene** | **100** | | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:06 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *0* | *D* | *36 - 131* | *10/14/14 10:14* | *10/15/14 23:06* | *10* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Aluminum** | **17000** | | 19 | 9.3 | mg/Kg | ☼ | 10/13/14 12:36 | 10/18/14 01:55 | 1 |
| **Arsenic** | **16** | | 1.9 | 0.55 | mg/Kg | ☼ | 10/13/14 12:36 | 10/18/14 01:55 | 1 |
| **Iron** | **36000** | | 19 | 6.5 | mg/Kg | ☼ | 10/13/14 12:36 | 10/18/14 01:55 | 1 |
| **Lead** | **79** | | 9.3 | 4.9 | mg/Kg | ☼ | 10/13/14 12:36 | 10/20/14 16:34 | 10 |

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

## Client Sample ID: CV0971WW-CS18

**Lab Sample ID: 680-106200-21**

**Date Collected: 10/09/14 14:00**
**Matrix: Solid**
**Date Received: 10/11/14 09:33**
**Percent Solids: 91.9**

### Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 73 | U | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:28 | 10 |
| Acenaphthylene | 73 | U | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:28 | 10 |
| Anthracene | 73 | U | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:28 | 10 |
| **Benzo[a]anthracene** | **170** | | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:28 | 10 |
| **Benzo[a]pyrene** | **180** | | 73 | 13 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:28 | 10 |
| **Benzo[b]fluoranthene** | **260** | | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:28 | 10 |
| **Benzo[g,h,i]perylene** | **130** | | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:28 | 10 |
| **Benzo[k]fluoranthene** | **86** | | 73 | 22 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:28 | 10 |
| **Chrysene** | **200** | | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:28 | 10 |
| **Dibenz(a,h)anthracene** | **68** | **J** | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:28 | 10 |
| **Fluoranthene** | **320** | | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:28 | 10 |
| Fluorene | 73 | U | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:28 | 10 |
| **Indeno[1,2,3-cd]pyrene** | **92** | | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:28 | 10 |
| 1-Methylnaphthalene | 73 | U | 73 | 34 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:28 | 10 |
| 2-Methylnaphthalene | 73 | U | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:28 | 10 |
| Naphthalene | 73 | U | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:28 | 10 |
| **Phenanthrene** | **170** | | 73 | 26 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:28 | 10 |
| **Pyrene** | **340** | | 73 | 36 | ug/Kg | ☼ | 10/14/14 10:14 | 10/15/14 23:28 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *0* | *D* | *36 - 131* | *10/14/14 10:14* | *10/15/14 23:28* | *10* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Aluminum** | **14000** | | 20 | 9.8 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:18 | 1 |
| **Arsenic** | **25** | | 2.0 | 0.58 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:18 | 1 |
| **Iron** | **42000** | | 20 | 6.9 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:18 | 1 |
| **Lead** | **48** | | 0.98 | 0.52 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:18 | 1 |

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

## Client Sample ID: CV0971WW-CS24

**Lab Sample ID: 680-106200-22**

**Date Collected: 10/09/14 14:10**
**Date Received: 10/11/14 09:33**

**Matrix: Solid**
**Percent Solids: 91.6**

### Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 7.3 | U | 7.3 | 3.6 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:34 | 1 |
| Acenaphthylene | 7.3 | U | 7.3 | 3.6 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:34 | 1 |
| Anthracene | 7.3 | U | 7.3 | 3.6 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:34 | 1 |
| **Benzo[a]anthracene** | **24** | | 7.3 | 3.6 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:34 | 1 |
| **Benzo[a]pyrene** | **7.1** | **J** | 7.3 | 1.3 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:34 | 1 |
| **Benzo[b]fluoranthene** | **37** | | 7.3 | 3.6 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:34 | 1 |
| **Benzo[g,h,i]perylene** | **20** | | 7.3 | 3.6 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:34 | 1 |
| **Benzo[k]fluoranthene** | **12** | | 7.3 | 2.2 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:34 | 1 |
| **Chrysene** | **25** | | 7.3 | 3.6 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:34 | 1 |
| **Dibenz(a,h)anthracene** | **6.4** | **J** | 7.3 | 3.6 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:34 | 1 |
| **Fluoranthene** | **38** | | 7.3 | 3.6 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:34 | 1 |
| Fluorene | 7.3 | U | 7.3 | 3.6 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:34 | 1 |
| **Indeno[1,2,3-cd]pyrene** | **14** | | 7.3 | 3.6 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:34 | 1 |
| 1-Methylnaphthalene | 7.3 | U | 7.3 | 3.4 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:34 | 1 |
| 2-Methylnaphthalene | 7.3 | U | 7.3 | 3.6 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:34 | 1 |
| Naphthalene | 7.3 | U | 7.3 | 3.6 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:34 | 1 |
| **Phenanthrene** | **17** | | 7.3 | 2.6 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:34 | 1 |
| **Pyrene** | **38** | | 7.3 | 3.6 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:34 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *100* | | *36 - 131* | *10/15/14 10:01* | *10/16/14 13:34* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Aluminum** | **12000** | | 21 | 11 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:40 | 1 |
| **Arsenic** | **47** | | 2.1 | 0.63 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:40 | 1 |
| **Iron** | **37000** | | 21 | 7.5 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:40 | 1 |
| **Lead** | **15** | | 1.1 | 0.57 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:40 | 1 |

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

## Client Sample ID: CV0005AC-CS6

**Lab Sample ID: 680-106200-23**

**Date Collected: 10/09/14 10:10**
**Date Received: 10/11/14 09:33**

**Matrix: Solid**
**Percent Solids: 91.7**

### Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 73 | U | 73 | 36 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:56 | 10 |
| Acenaphthylene | 73 | U | 73 | 36 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:56 | 10 |
| Anthracene | 73 | U | 73 | 36 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:56 | 10 |
| **Benzo[a]anthracene** | **180** | | 73 | 36 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:56 | 10 |
| **Benzo[a]pyrene** | **220** | | 73 | 13 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:56 | 10 |
| **Benzo[b]fluoranthene** | **360** | | 73 | 36 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:56 | 10 |
| **Benzo[g,h,i]perylene** | **180** | | 73 | 36 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:56 | 10 |
| **Benzo[k]fluoranthene** | **110** | | 73 | 22 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:56 | 10 |
| **Chrysene** | **240** | | 73 | 36 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:56 | 10 |
| **Dibenz(a,h)anthracene** | **64** | **J** | 73 | 36 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:56 | 10 |
| **Fluoranthene** | **270** | | 73 | 36 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:56 | 10 |
| Fluorene | 73 | U | 73 | 36 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:56 | 10 |
| **Indeno[1,2,3-cd]pyrene** | **140** | | 73 | 36 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:56 | 10 |
| **1-Methylnaphthalene** | **52** | **J** | 73 | 34 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:56 | 10 |
| **2-Methylnaphthalene** | **59** | **J** | 73 | 36 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:56 | 10 |
| **Naphthalene** | **42** | **J** | 73 | 36 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:56 | 10 |
| **Phenanthrene** | **170** | | 73 | 26 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:56 | 10 |
| **Pyrene** | **290** | | 73 | 36 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 13:56 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *0* | *D* | *36 - 131* | *10/15/14 10:01* | *10/16/14 13:56* | *10* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Aluminum** | **9700** | | 21 | 10 | mg/Kg | ☼ | 10/13/14 12:36 | 10/18/14 02:03 | 1 |
| **Arsenic** | **22** | | 2.1 | 0.61 | mg/Kg | ☼ | 10/13/14 12:36 | 10/18/14 02:03 | 1 |
| **Iron** | **37000** | | 21 | 7.2 | mg/Kg | ☼ | 10/13/14 12:36 | 10/18/14 02:03 | 1 |
| **Lead** | **210** | | 1.0 | 0.55 | mg/Kg | ☼ | 10/13/14 12:36 | 10/18/14 02:03 | 1 |

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

## Client Sample ID: CV0005AC-CS12

**Lab Sample ID: 680-106200-24**

**Date Collected: 10/09/14 10:20**
**Date Received: 10/11/14 09:33**

**Matrix: Solid**
**Percent Solids: 86.6**

### Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 7.7 | U | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 14:19 | 1 |
| Acenaphthylene | 7.7 | U | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 14:19 | 1 |
| Anthracene | 7.7 | U | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 14:19 | 1 |
| **Benzo[a]anthracene** | **22** | | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 14:19 | 1 |
| **Benzo[a]pyrene** | **15** | | 7.7 | 1.4 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 14:19 | 1 |
| **Benzo[b]fluoranthene** | **23** | | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 14:19 | 1 |
| **Benzo[g,h,i]perylene** | **8.9** | | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 14:19 | 1 |
| **Benzo[k]fluoranthene** | **7.9** | | 7.7 | 2.3 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 14:19 | 1 |
| **Chrysene** | **20** | | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 14:19 | 1 |
| **Dibenz(a,h)anthracene** | **4.7** | **J** | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 14:19 | 1 |
| **Fluoranthene** | **35** | | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 14:19 | 1 |
| Fluorene | 7.7 | U | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 14:19 | 1 |
| **Indeno[1,2,3-cd]pyrene** | **7.4** | **J** | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 14:19 | 1 |
| 1-Methylnaphthalene | 7.7 | U | 7.7 | 3.6 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 14:19 | 1 |
| 2-Methylnaphthalene | 7.7 | U | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 14:19 | 1 |
| Naphthalene | 7.7 | U | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 14:19 | 1 |
| **Phenanthrene** | **9.5** | | 7.7 | 2.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 14:19 | 1 |
| **Pyrene** | **32** | | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 14:19 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *94* | | *36 - 131* | *10/15/14 10:01* | *10/16/14 14:19* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Aluminum** | **13000** | | 20 | 9.9 | mg/Kg | ☼ | 10/13/14 09:39 | 10/15/14 21:14 | 1 |
| **Arsenic** | **28** | | 2.0 | 0.58 | mg/Kg | ☼ | 10/13/14 09:39 | 10/15/14 21:14 | 1 |
| **Iron** | **34000** | | 20 | 6.9 | mg/Kg | ☼ | 10/13/14 09:39 | 10/15/14 21:14 | 1 |
| **Lead** | **26** | | 0.99 | 0.52 | mg/Kg | ☼ | 10/13/14 09:39 | 10/15/14 21:14 | 1 |

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

## Client Sample ID: CV0005AC-CS18

**Lab Sample ID: 680-106200-25**

**Date Collected: 10/09/14 10:30**
**Date Received: 10/11/14 09:33**

**Matrix: Solid**
**Percent Solids: 94.5**

### Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 7.1 | U | 7.1 | 3.5 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:00 | 1 |
| Acenaphthylene | 7.1 | U | 7.1 | 3.5 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:00 | 1 |
| Anthracene | 7.1 | U | 7.1 | 3.5 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:00 | 1 |
| **Benzo[a]anthracene** | **23** | | 7.1 | 3.5 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:00 | 1 |
| **Benzo[a]pyrene** | **22** | | 7.1 | 1.3 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:00 | 1 |
| **Benzo[b]fluoranthene** | **36** | | 7.1 | 3.5 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:00 | 1 |
| **Benzo[g,h,i]perylene** | **20** | | 7.1 | 3.5 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:00 | 1 |
| **Benzo[k]fluoranthene** | **14** | | 7.1 | 2.1 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:00 | 1 |
| **Chrysene** | **27** | | 7.1 | 3.5 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:00 | 1 |
| **Dibenz(a,h)anthracene** | **7.7** | | 7.1 | 3.5 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:00 | 1 |
| **Fluoranthene** | **32** | | 7.1 | 3.5 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:00 | 1 |
| Fluorene | 7.1 | U | 7.1 | 3.5 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:00 | 1 |
| **Indeno[1,2,3-cd]pyrene** | **15** | | 7.1 | 3.5 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:00 | 1 |
| **1-Methylnaphthalene** | **5.2** | **J** | 7.1 | 3.3 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:00 | 1 |
| **2-Methylnaphthalene** | **7.2** | | 7.1 | 3.5 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:00 | 1 |
| **Naphthalene** | **4.8** | **J** | 7.1 | 3.5 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:00 | 1 |
| **Phenanthrene** | **19** | | 7.1 | 2.5 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:00 | 1 |
| **Pyrene** | **31** | | 7.1 | 3.5 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *114* | | *36 - 131* | *10/15/14 10:01* | *10/16/14 17:00* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Aluminum** | **14000** | | 18 | 9.0 | mg/Kg | ☼ | 10/13/14 12:36 | 10/18/14 00:59 | 1 |
| **Arsenic** | **28** | | 1.8 | 0.53 | mg/Kg | ☼ | 10/13/14 12:36 | 10/18/14 00:59 | 1 |
| **Iron** | **37000** | | 18 | 6.3 | mg/Kg | ☼ | 10/13/14 12:36 | 10/18/14 00:59 | 1 |
| **Lead** | **33** | | 0.90 | 0.48 | mg/Kg | ☼ | 10/13/14 12:36 | 10/18/14 00:59 | 1 |

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

## Client Sample ID: CV0005AC-CS24

**Lab Sample ID: 680-106200-26**

**Date Collected: 10/09/14 10:40**
**Date Received: 10/11/14 09:33**

**Matrix: Solid**
**Percent Solids: 86.8**

### Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 7.7 | U | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:22 | 1 |
| Acenaphthylene | 7.7 | U | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:22 | 1 |
| Anthracene | 7.7 | U | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:22 | 1 |
| **Benzo[a]anthracene** | **5.1** | **J** | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:22 | 1 |
| **Benzo[a]pyrene** | **5.7** | **J** | 7.7 | 1.4 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:22 | 1 |
| **Benzo[b]fluoranthene** | **8.6** | | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:22 | 1 |
| **Benzo[g,h,i]perylene** | **5.5** | **J** | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:22 | 1 |
| **Benzo[k]fluoranthene** | **3.2** | **J** | 7.7 | 2.3 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:22 | 1 |
| **Chrysene** | **7.0** | **J** | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:22 | 1 |
| Dibenz(a,h)anthracene | 7.7 | U | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:22 | 1 |
| **Fluoranthene** | **8.1** | | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:22 | 1 |
| Fluorene | 7.7 | U | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:22 | 1 |
| **Indeno[1,2,3-cd]pyrene** | **4.4** | **J** | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:22 | 1 |
| 1-Methylnaphthalene | 7.7 | U | 7.7 | 3.6 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:22 | 1 |
| 2-Methylnaphthalene | 7.7 | U | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:22 | 1 |
| Naphthalene | 7.7 | U | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:22 | 1 |
| **Phenanthrene** | **5.5** | **J** | 7.7 | 2.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:22 | 1 |
| **Pyrene** | **8.2** | | 7.7 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:22 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *87* | | *36 - 131* | *10/15/14 10:01* | *10/16/14 17:22* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Aluminum** | **15000** | | 23 | 12 | mg/Kg | ☼ | 10/13/14 12:36 | 10/18/14 00:33 | 1 |
| **Arsenic** | **33** | | 2.3 | 0.68 | mg/Kg | ☼ | 10/13/14 12:36 | 10/18/14 00:33 | 1 |
| **Iron** | **44000** | | 23 | 8.1 | mg/Kg | ☼ | 10/13/14 12:36 | 10/18/14 00:33 | 1 |
| **Lead** | **28** | | 1.2 | 0.61 | mg/Kg | ☼ | 10/13/14 12:36 | 10/18/14 00:33 | 1 |

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

## Client Sample ID: CV0748WW-CS6

**Lab Sample ID: 680-106200-27**

**Date Collected: 10/09/14 12:40**
**Matrix: Solid**
**Date Received: 10/11/14 09:33**
**Percent Solids: 90.1**

### Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 74 | U | 74 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:44 | 10 |
| Acenaphthylene | 58 | J | 74 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:44 | 10 |
| Anthracene | 120 | | 74 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:44 | 10 |
| Benzo[a]anthracene | 510 | | 74 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:44 | 10 |
| Benzo[a]pyrene | 430 | | 74 | 13 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:44 | 10 |
| Benzo[b]fluoranthene | 620 | | 74 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:44 | 10 |
| Benzo[g,h,i]perylene | 300 | | 74 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:44 | 10 |
| Benzo[k]fluoranthene | 260 | | 74 | 22 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:44 | 10 |
| Chrysene | 560 | | 74 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:44 | 10 |
| Dibenz(a,h)anthracene | 150 | | 74 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:44 | 10 |
| Fluoranthene | 1100 | | 74 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:44 | 10 |
| Fluorene | 50 | J | 74 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:44 | 10 |
| Indeno[1,2,3-cd]pyrene | 240 | | 74 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:44 | 10 |
| 1-Methylnaphthalene | 49 | J | 74 | 34 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:44 | 10 |
| 2-Methylnaphthalene | 59 | J | 74 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:44 | 10 |
| Naphthalene | 43 | J | 74 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:44 | 10 |
| Phenanthrene | 690 | | 74 | 27 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:44 | 10 |
| Pyrene | 970 | | 74 | 37 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 17:44 | 10 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *0* | *D* | *36 - 131* | *10/15/14 10:01* | *10/16/14 17:44* | *10* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 11000 | | 20 | 10 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:14 | 1 |
| Arsenic | 32 | | 2.0 | 0.59 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:14 | 1 |
| Iron | 37000 | | 20 | 7.0 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:14 | 1 |
| Lead | 100 | | 1.0 | 0.53 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:14 | 1 |

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

## Client Sample ID: CV0748WW-CS12

**Lab Sample ID: 680-106200-28**

**Date Collected: 10/09/14 12:50**
**Date Received: 10/11/14 09:33**

**Matrix: Solid**
**Percent Solids: 85.8**

### Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 7.8 | U | 7.8 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:06 | 1 |
| Acenaphthylene | 7.8 | U | 7.8 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:06 | 1 |
| Anthracene | 7.8 | U | 7.8 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:06 | 1 |
| **Benzo[a]anthracene** | **6.9** | **J** | 7.8 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:06 | 1 |
| Benzo[a]pyrene | 7.8 | U | 7.8 | 1.4 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:06 | 1 |
| **Benzo[b]fluoranthene** | **13** | | 7.8 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:06 | 1 |
| **Benzo[g,h,i]perylene** | **8.2** | | 7.8 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:06 | 1 |
| **Benzo[k]fluoranthene** | **4.8** | **J** | 7.8 | 2.3 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:06 | 1 |
| **Chrysene** | **12** | | 7.8 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:06 | 1 |
| Dibenz(a,h)anthracene | 7.8 | U | 7.8 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:06 | 1 |
| **Fluoranthene** | **7.8** | | 7.8 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:06 | 1 |
| Fluorene | 7.8 | U | 7.8 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:06 | 1 |
| **Indeno[1,2,3-cd]pyrene** | **5.6** | **J** | 7.8 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:06 | 1 |
| **1-Methylnaphthalene** | **4.1** | **J** | 7.8 | 3.6 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:06 | 1 |
| **2-Methylnaphthalene** | **5.0** | **J** | 7.8 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:06 | 1 |
| **Naphthalene** | **4.7** | **J** | 7.8 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:06 | 1 |
| **Phenanthrene** | **7.6** | **J** | 7.8 | 2.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:06 | 1 |
| **Pyrene** | **8.9** | | 7.8 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *107* | | *36 - 131* | *10/15/14 10:01* | *10/16/14 18:06* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Aluminum** | **12000** | | 23 | 11 | mg/Kg | ☼ | 10/13/14 12:36 | 10/18/14 01:16 | 1 |
| **Arsenic** | **43** | | 2.3 | 0.67 | mg/Kg | ☼ | 10/13/14 12:36 | 10/18/14 01:16 | 1 |
| **Iron** | **41000** | | 23 | 7.9 | mg/Kg | ☼ | 10/13/14 12:36 | 10/18/14 01:16 | 1 |
| **Lead** | **26** | | 1.1 | 0.60 | mg/Kg | ☼ | 10/13/14 12:36 | 10/18/14 01:16 | 1 |

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

## Client Sample ID: CV0748WW-CS18

**Lab Sample ID: 680-106200-29**

**Date Collected: 10/09/14 13:00**
**Date Received: 10/11/14 09:33**

**Matrix: Solid**
**Percent Solids: 84.2**

### Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 7.9 | U | 7.9 | 3.9 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:28 | 1 |
| Acenaphthylene | 7.9 | U | 7.9 | 3.9 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:28 | 1 |
| Anthracene | 7.9 | U | 7.9 | 3.9 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:28 | 1 |
| **Benzo[a]anthracene** | **6.7** | **J** | 7.9 | 3.9 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:28 | 1 |
| **Benzo[a]pyrene** | **6.9** | **J** | 7.9 | 1.4 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:28 | 1 |
| **Benzo[b]fluoranthene** | **11** | | 7.9 | 3.9 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:28 | 1 |
| **Benzo[g,h,i]perylene** | **7.0** | **J** | 7.9 | 3.9 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:28 | 1 |
| **Benzo[k]fluoranthene** | **4.0** | **J** | 7.9 | 2.4 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:28 | 1 |
| **Chrysene** | **9.8** | | 7.9 | 3.9 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:28 | 1 |
| Dibenz(a,h)anthracene | 7.9 | U | 7.9 | 3.9 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:28 | 1 |
| **Fluoranthene** | **7.5** | **J** | 7.9 | 3.9 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:28 | 1 |
| Fluorene | 7.9 | U | 7.9 | 3.9 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:28 | 1 |
| **Indeno[1,2,3-cd]pyrene** | **5.0** | **J** | 7.9 | 3.9 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:28 | 1 |
| **1-Methylnaphthalene** | **6.2** | **J** | 7.9 | 3.7 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:28 | 1 |
| **2-Methylnaphthalene** | **4.6** | **J** | 7.9 | 3.9 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:28 | 1 |
| Naphthalene | 7.9 | U | 7.9 | 3.9 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:28 | 1 |
| **Phenanthrene** | **15** | | 7.9 | 2.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:28 | 1 |
| **Pyrene** | **9.1** | | 7.9 | 3.9 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:28 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *115* | | *36 - 131* | *10/15/14 10:01* | *10/16/14 18:28* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Aluminum** | **13000** | | 24 | 12 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:01 | 1 |
| **Arsenic** | **57** | | 2.4 | 0.69 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:01 | 1 |
| **Iron** | **51000** | | 24 | 8.2 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:01 | 1 |
| **Lead** | **22** | | 1.2 | 0.62 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:01 | 1 |

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

## Client Sample ID: CV0748WW-CS24

**Lab Sample ID: 680-106200-30**

**Date Collected: 10/09/14 13:10**
**Date Received: 10/11/14 09:33**

**Matrix: Solid**
**Percent Solids: 87.9**

### Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 7.6 | U | 7.6 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:51 | 1 |
| Acenaphthylene | 7.6 | U | 7.6 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:51 | 1 |
| Anthracene | 7.6 | U | 7.6 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:51 | 1 |
| **Benzo[a]anthracene** | **6.0** | **J** | 7.6 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:51 | 1 |
| **Benzo[a]pyrene** | **4.8** | **J** | 7.6 | 1.4 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:51 | 1 |
| **Benzo[b]fluoranthene** | **8.9** | | 7.6 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:51 | 1 |
| **Benzo[g,h,i]perylene** | **5.7** | **J** | 7.6 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:51 | 1 |
| **Benzo[k]fluoranthene** | **3.1** | **J** | 7.6 | 2.3 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:51 | 1 |
| **Chrysene** | **7.7** | | 7.6 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:51 | 1 |
| Dibenz(a,h)anthracene | 7.6 | U | 7.6 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:51 | 1 |
| **Fluoranthene** | **5.8** | **J** | 7.6 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:51 | 1 |
| Fluorene | 7.6 | U | 7.6 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:51 | 1 |
| **Indeno[1,2,3-cd]pyrene** | **4.3** | **J** | 7.6 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:51 | 1 |
| **1-Methylnaphthalene** | **3.8** | **J** | 7.6 | 3.5 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:51 | 1 |
| **2-Methylnaphthalene** | **4.7** | **J** | 7.6 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:51 | 1 |
| **Naphthalene** | **4.6** | **J** | 7.6 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:51 | 1 |
| **Phenanthrene** | **7.6** | | 7.6 | 2.7 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:51 | 1 |
| **Pyrene** | **6.1** | **J** | 7.6 | 3.8 | ug/Kg | ☼ | 10/15/14 10:01 | 10/16/14 18:51 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *107* | | *36 - 131* | *10/15/14 10:01* | *10/16/14 18:51* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Aluminum** | **16000** | | 20 | 9.8 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:53 | 1 |
| **Arsenic** | **27** | | 2.0 | 0.58 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:53 | 1 |
| **Iron** | **56000** | | 20 | 6.9 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:53 | 1 |
| **Lead** | **41** | | 0.98 | 0.52 | mg/Kg | ☼ | 10/13/14 14:24 | 10/15/14 18:53 | 1 |

## Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

**Lab Sample ID: MB 680-353328/21-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 353689** — **Prep Batch: 353328**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/14/14 10:14 | 10/15/14 14:59 | 1 |
| Acenaphthylene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/14/14 10:14 | 10/15/14 14:59 | 1 |
| Anthracene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/14/14 10:14 | 10/15/14 14:59 | 1 |
| Benzo[a]anthracene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/14/14 10:14 | 10/15/14 14:59 | 1 |
| Benzo[a]pyrene | 6.7 | U | 6.7 | 1.2 | ug/Kg | | 10/14/14 10:14 | 10/15/14 14:59 | 1 |
| Benzo[b]fluoranthene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/14/14 10:14 | 10/15/14 14:59 | 1 |
| Benzo[g,h,i]perylene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/14/14 10:14 | 10/15/14 14:59 | 1 |
| Benzo[k]fluoranthene | 6.7 | U | 6.7 | 2.0 | ug/Kg | | 10/14/14 10:14 | 10/15/14 14:59 | 1 |
| Chrysene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/14/14 10:14 | 10/15/14 14:59 | 1 |
| Dibenz(a,h)anthracene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/14/14 10:14 | 10/15/14 14:59 | 1 |
| Fluoranthene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/14/14 10:14 | 10/15/14 14:59 | 1 |
| Fluorene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/14/14 10:14 | 10/15/14 14:59 | 1 |
| Indeno[1,2,3-cd]pyrene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/14/14 10:14 | 10/15/14 14:59 | 1 |
| 1-Methylnaphthalene | 6.7 | U | 6.7 | 3.1 | ug/Kg | | 10/14/14 10:14 | 10/15/14 14:59 | 1 |
| 2-Methylnaphthalene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/14/14 10:14 | 10/15/14 14:59 | 1 |
| Naphthalene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/14/14 10:14 | 10/15/14 14:59 | 1 |
| Phenanthrene | 6.7 | U | 6.7 | 2.4 | ug/Kg | | 10/14/14 10:14 | 10/15/14 14:59 | 1 |
| Pyrene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/14/14 10:14 | 10/15/14 14:59 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *95* | | *36 - 131* | *10/14/14 10:14* | *10/15/14 14:59* | *1* |

**Lab Sample ID: LCS 680-353328/22-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 353689** — **Prep Batch: 353328**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 333 | 230 | | ug/Kg | | 69 | 33 - 130 |
| Acenaphthylene | 333 | 225 | | ug/Kg | | 68 | 37 - 131 |
| Anthracene | 333 | 251 | | ug/Kg | | 75 | 42 - 146 |
| Benzo[a]anthracene | 333 | 274 | | ug/Kg | | 82 | 39 - 157 |
| Benzo[a]pyrene | 333 | 287 | | ug/Kg | | 86 | 41 - 158 |
| Benzo[b]fluoranthene | 333 | 301 | | ug/Kg | | 90 | 35 - 152 |
| Benzo[g,h,i]perylene | 333 | 291 | | ug/Kg | | 87 | 32 - 150 |
| Benzo[k]fluoranthene | 333 | 268 | | ug/Kg | | 81 | 38 - 148 |
| Chrysene | 333 | 297 | | ug/Kg | | 89 | 38 - 147 |
| Dibenz(a,h)anthracene | 333 | 297 | | ug/Kg | | 89 | 32 - 155 |
| Fluoranthene | 333 | 266 | | ug/Kg | | 80 | 36 - 147 |
| Fluorene | 333 | 231 | | ug/Kg | | 69 | 36 - 138 |
| Indeno[1,2,3-cd]pyrene | 333 | 280 | | ug/Kg | | 84 | 35 - 148 |
| 1-Methylnaphthalene | 333 | 209 | | ug/Kg | | 63 | 36 - 130 |
| 2-Methylnaphthalene | 333 | 209 | | ug/Kg | | 63 | 42 - 130 |
| Naphthalene | 333 | 203 | | ug/Kg | | 61 | 33 - 130 |
| Phenanthrene | 333 | 251 | | ug/Kg | | 75 | 40 - 135 |
| Pyrene | 333 | 265 | | ug/Kg | | 80 | 38 - 145 |

## Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

**Lab Sample ID: LCS 680-353328/22-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 353689** — **Prep Batch: 353328**

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *o-Terphenyl* | *88* | | *36 - 131* |

**Lab Sample ID: MB 680-353477/21-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 353862** — **Prep Batch: 353477**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/15/14 10:01 | 10/16/14 11:43 | 1 |
| Acenaphthylene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/15/14 10:01 | 10/16/14 11:43 | 1 |
| Anthracene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/15/14 10:01 | 10/16/14 11:43 | 1 |
| Benzo[a]anthracene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/15/14 10:01 | 10/16/14 11:43 | 1 |
| Benzo[a]pyrene | 6.7 | U | 6.7 | 1.2 | ug/Kg | | 10/15/14 10:01 | 10/16/14 11:43 | 1 |
| Benzo[b]fluoranthene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/15/14 10:01 | 10/16/14 11:43 | 1 |
| Benzo[g,h,i]perylene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/15/14 10:01 | 10/16/14 11:43 | 1 |
| Benzo[k]fluoranthene | 6.7 | U | 6.7 | 2.0 | ug/Kg | | 10/15/14 10:01 | 10/16/14 11:43 | 1 |
| Chrysene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/15/14 10:01 | 10/16/14 11:43 | 1 |
| Dibenz(a,h)anthracene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/15/14 10:01 | 10/16/14 11:43 | 1 |
| Fluoranthene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/15/14 10:01 | 10/16/14 11:43 | 1 |
| Fluorene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/15/14 10:01 | 10/16/14 11:43 | 1 |
| Indeno[1,2,3-cd]pyrene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/15/14 10:01 | 10/16/14 11:43 | 1 |
| 1-Methylnaphthalene | 6.7 | U | 6.7 | 3.1 | ug/Kg | | 10/15/14 10:01 | 10/16/14 11:43 | 1 |
| 2-Methylnaphthalene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/15/14 10:01 | 10/16/14 11:43 | 1 |
| Naphthalene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/15/14 10:01 | 10/16/14 11:43 | 1 |
| Phenanthrene | 6.7 | U | 6.7 | 2.4 | ug/Kg | | 10/15/14 10:01 | 10/16/14 11:43 | 1 |
| Pyrene | 6.7 | U | 6.7 | 3.3 | ug/Kg | | 10/15/14 10:01 | 10/16/14 11:43 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *o-Terphenyl* | *117* | | *36 - 131* | *10/15/14 10:01* | *10/16/14 11:43* | *1* |

**Lab Sample ID: LCS 680-353477/22-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 353862** — **Prep Batch: 353477**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Acenaphthene | 333 | 202 | | ug/Kg | | 61 | 33 - 130 |
| Acenaphthylene | 333 | 198 | | ug/Kg | | 60 | 37 - 131 |
| Anthracene | 333 | 213 | | ug/Kg | | 64 | 42 - 146 |
| Benzo[a]anthracene | 333 | 228 | | ug/Kg | | 68 | 39 - 157 |
| Benzo[a]pyrene | 333 | 228 | | ug/Kg | | 68 | 41 - 158 |
| Benzo[b]fluoranthene | 333 | 235 | | ug/Kg | | 71 | 35 - 152 |
| Benzo[g,h,i]perylene | 333 | 228 | | ug/Kg | | 68 | 32 - 150 |
| Benzo[k]fluoranthene | 333 | 222 | | ug/Kg | | 67 | 38 - 148 |
| Chrysene | 333 | 233 | | ug/Kg | | 70 | 38 - 147 |
| Dibenz(a,h)anthracene | 333 | 243 | | ug/Kg | | 73 | 32 - 155 |
| Fluoranthene | 333 | 209 | | ug/Kg | | 63 | 36 - 147 |
| Fluorene | 333 | 199 | | ug/Kg | | 60 | 36 - 138 |
| Indeno[1,2,3-cd]pyrene | 333 | 208 | | ug/Kg | | 63 | 35 - 148 |
| 1-Methylnaphthalene | 333 | 197 | | ug/Kg | | 59 | 36 - 130 |

## Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

**Lab Sample ID: LCS 680-353477/22-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 353862** — **Prep Batch: 353477**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 2-Methylnaphthalene | 333 | 196 | | ug/Kg | | 59 | 42 - 130 |
| Naphthalene | 333 | 191 | | ug/Kg | | 57 | 33 - 130 |
| Phenanthrene | 333 | 209 | | ug/Kg | | 63 | 40 - 135 |
| Pyrene | 333 | 238 | | ug/Kg | | 71 | 38 - 145 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *o-Terphenyl* | *84* | | *36 - 131* |

**Lab Sample ID: 680-106200-18 MS** — **Client Sample ID: CV0971WW-CS6**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 353862** — **Prep Batch: 353477**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 64 | J | 378 | 322 | | ug/Kg | ☼ | 68 | 33 - 130 |
| Acenaphthylene | 160 | | 378 | 400 | | ug/Kg | ☼ | 64 | 37 - 131 |
| Anthracene | 230 | | 378 | 427 | | ug/Kg | ☼ | 51 | 42 - 146 |
| Benzo[a]anthracene | 1400 | | 378 | 1270 | F1 | ug/Kg | ☼ | -21 | 39 - 157 |
| Benzo[a]pyrene | 1300 | | 378 | 1330 | F1 | ug/Kg | ☼ | -2 | 41 - 158 |
| Benzo[b]fluoranthene | 1900 | | 378 | 1740 | 4 | ug/Kg | ☼ | -32 | 35 - 152 |
| Benzo[g,h,i]perylene | 930 | | 378 | 928 | F1 | ug/Kg | ☼ | -0.6 | 32 - 150 |
| Benzo[k]fluoranthene | 870 | | 378 | 991 | F1 | ug/Kg | ☼ | 33 | 38 - 148 |
| Chrysene | 1600 | | 378 | 1390 | 4 | ug/Kg | ☼ | -54 | 38 - 147 |
| Dibenz(a,h)anthracene | 450 | | 378 | 405 | F1 | ug/Kg | ☼ | -13 | 32 - 155 |
| Fluoranthene | 2400 | | 378 | 2010 | 4 | ug/Kg | ☼ | -114 | 36 - 147 |
| Fluorene | 81 | | 378 | 316 | | ug/Kg | ☼ | 62 | 36 - 138 |
| Indeno[1,2,3-cd]pyrene | 720 | | 378 | 816 | F1 | ug/Kg | ☼ | 26 | 35 - 148 |
| 1-Methylnaphthalene | 99 | | 378 | 393 | | ug/Kg | ☼ | 78 | 36 - 130 |
| 2-Methylnaphthalene | 110 | | 378 | 404 | | ug/Kg | ☼ | 77 | 42 - 130 |
| Naphthalene | 100 | | 378 | 370 | | ug/Kg | ☼ | 70 | 33 - 130 |
| Phenanthrene | 1200 | | 378 | 1030 | F1 | ug/Kg | ☼ | -56 | 40 - 135 |
| Pyrene | 2500 | | 378 | 1990 | 4 | ug/Kg | ☼ | -144 | 38 - 145 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *o-Terphenyl* | *0* | *D* | *36 - 131* |

**Lab Sample ID: 680-106200-18 MSD** — **Client Sample ID: CV0971WW-CS6**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 353862** — **Prep Batch: 353477**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 64 | J | 378 | 405 | | ug/Kg | ☼ | 90 | 33 - 130 | 23 | 50 |
| Acenaphthylene | 160 | | 378 | 464 | | ug/Kg | ☼ | 81 | 37 - 131 | 15 | 50 |
| Anthracene | 230 | | 378 | 606 | | ug/Kg | ☼ | 99 | 42 - 146 | 35 | 50 |
| Benzo[a]anthracene | 1400 | | 378 | 2110 | F1 | ug/Kg | ☼ | 200 | 39 - 157 | 49 | 50 |
| Benzo[a]pyrene | 1300 | | 378 | 2100 | F1 | ug/Kg | ☼ | 201 | 41 - 158 | 45 | 50 |
| Benzo[b]fluoranthene | 1900 | | 378 | 2790 | 4 | ug/Kg | ☼ | 244 | 35 - 152 | 46 | 50 |
| Benzo[g,h,i]perylene | 930 | | 378 | 1590 | F1 F2 | ug/Kg | ☼ | 175 | 32 - 150 | 53 | 50 |
| Benzo[k]fluoranthene | 870 | | 378 | 1500 | F1 | ug/Kg | ☼ | 167 | 38 - 148 | 41 | 50 |

## Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

**Lab Sample ID: 680-106200-18 MSD** — **Client Sample ID: CV0971WW-CS6**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 353862** — **Prep Batch: 353477**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chrysene | 1600 | | 378 | 2500 | 4 F2 | ug/Kg | ☼ | 240 | 38 - 147 | 57 | 50 |
| Dibenz(a,h)anthracene | 450 | | 378 | 907 | F2 | ug/Kg | ☼ | 120 | 32 - 155 | 76 | 50 |
| Fluoranthene | 2400 | | 378 | 3670 | 4 F2 | ug/Kg | ☼ | 327 | 36 - 147 | 59 | 50 |
| Fluorene | 81 | | 378 | 417 | | ug/Kg | ☼ | 89 | 36 - 138 | 28 | 50 |
| Indeno[1,2,3-cd]pyrene | 720 | | 378 | 1410 | F1 F2 | ug/Kg | ☼ | 182 | 35 - 148 | 53 | 50 |
| 1-Methylnaphthalene | 99 | | 378 | 438 | | ug/Kg | ☼ | 90 | 36 - 130 | 11 | 50 |
| 2-Methylnaphthalene | 110 | | 378 | 452 | | ug/Kg | ☼ | 89 | 42 - 130 | 11 | 50 |
| Naphthalene | 100 | | 378 | 417 | | ug/Kg | ☼ | 83 | 33 - 130 | 12 | 50 |
| Phenanthrene | 1200 | | 378 | 2430 | F1 F2 | ug/Kg | ☼ | 315 | 40 - 135 | 81 | 50 |
| Pyrene | 2500 | | 378 | 3750 | 4 F2 | ug/Kg | ☼ | 323 | 38 - 145 | 62 | 50 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *o-Terphenyl* | *0* | *D* | *36 - 131* |

## Method: 6010C - Metals (ICP)

**Lab Sample ID: MB 680-353262/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 353949** — **Prep Batch: 353262**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 20 | U | 20 | 9.9 | mg/Kg | | 10/13/14 09:39 | 10/15/14 19:01 | 1 |
| Arsenic | 2.0 | U | 2.0 | 0.58 | mg/Kg | | 10/13/14 09:39 | 10/15/14 19:01 | 1 |
| Iron | 20 | U | 20 | 6.9 | mg/Kg | | 10/13/14 09:39 | 10/15/14 19:01 | 1 |
| Lead | 0.99 | U | 0.99 | 0.52 | mg/Kg | | 10/13/14 09:39 | 10/15/14 19:01 | 1 |

**Lab Sample ID: LCS 680-353262/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 353949** — **Prep Batch: 353262**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Aluminum | 481 | 451 | | mg/Kg | | 94 | 80 - 120 |
| Arsenic | 9.62 | 10.0 | | mg/Kg | | 104 | 80 - 120 |
| Iron | 481 | 462 | | mg/Kg | | 96 | 80 - 120 |
| Lead | 48.1 | 46.5 | | mg/Kg | | 97 | 80 - 120 |

**Lab Sample ID: MB 680-353312/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 354233** — **Prep Batch: 353312**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 19 | U | 19 | 9.3 | mg/Kg | | 10/13/14 12:36 | 10/17/14 23:59 | 1 |
| Arsenic | 1.9 | U | 1.9 | 0.55 | mg/Kg | | 10/13/14 12:36 | 10/17/14 23:59 | 1 |
| Iron | 19 | U | 19 | 6.5 | mg/Kg | | 10/13/14 12:36 | 10/17/14 23:59 | 1 |
| Lead | 0.93 | U | 0.93 | 0.49 | mg/Kg | | 10/13/14 12:36 | 10/17/14 23:59 | 1 |

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

**Lab Sample ID: LCS 680-353312/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 354233** — **Prep Batch: 353312**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Aluminum | 495 | 481 | | mg/Kg | | 97 | 80 - 120 |
| Arsenic | 9.90 | 9.59 | | mg/Kg | | 97 | 80 - 120 |
| Iron | 495 | 490 | | mg/Kg | | 99 | 80 - 120 |
| Lead | 49.5 | 49.8 | | mg/Kg | | 101 | 80 - 120 |

**Lab Sample ID: MB 680-353346/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 353949** — **Prep Batch: 353346**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 19 | U | 19 | 9.6 | mg/Kg | | 10/13/14 14:24 | 10/15/14 17:04 | 1 |
| Arsenic | 1.9 | U | 1.9 | 0.57 | mg/Kg | | 10/13/14 14:24 | 10/15/14 17:04 | 1 |
| Iron | 19 | U | 19 | 6.7 | mg/Kg | | 10/13/14 14:24 | 10/15/14 17:04 | 1 |
| Lead | 0.96 | U | 0.96 | 0.51 | mg/Kg | | 10/13/14 14:24 | 10/15/14 17:04 | 1 |

**Lab Sample ID: LCS 680-353346/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 353949** — **Prep Batch: 353346**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| Aluminum | 463 | 441 | | mg/Kg | | 95 | 80 - 120 |
| Arsenic | 9.26 | 10.0 | | mg/Kg | | 108 | 80 - 120 |
| Iron | 463 | 453 | | mg/Kg | | 98 | 80 - 120 |
| Lead | 46.3 | 45.5 | | mg/Kg | | 98 | 80 - 120 |

**Lab Sample ID: 680-106200-18 MS** — **Client Sample ID: CV0971WW-CS6**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 353949** — **Prep Batch: 353346**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 14000 | | 503 | 14100 | 4 | mg/Kg | ☼ | 30 | 75 - 125 |
| Arsenic | 28 | | 10.1 | 41.2 | F1 | mg/Kg | ☼ | 134 | 75 - 125 |
| Iron | 39000 | | 503 | 45900 | 4 | mg/Kg | ☼ | 1414 | 75 - 125 |
| Lead | 170 | | 50.3 | 195 | F1 | mg/Kg | ☼ | 47 | 75 - 125 |

**Lab Sample ID: 680-106200-18 MSD** — **Client Sample ID: CV0971WW-CS6**
**Matrix: Solid** — **Prep Type: Total/NA**
**Analysis Batch: 353949** — **Prep Batch: 353346**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Aluminum | 14000 | | 507 | 14400 | 4 | mg/Kg | ☼ | 91 | 75 - 125 | 2 | 20 |
| Arsenic | 28 | | 10.1 | 36.1 | | mg/Kg | ☼ | 83 | 75 - 125 | 13 | 20 |
| Iron | 39000 | | 507 | 36100 | 4 F2 | mg/Kg | ☼ | -526 | 75 - 125 | 24 | 20 |
| Lead | 170 | | 50.7 | 211 | | mg/Kg | ☼ | 78 | 75 - 125 | 8 | 20 |

# QC Association Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

## GC/MS Semi VOA

### Prep Batch: 353328

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 680-106200-19 | CV0971WW-CSD6 | Total/NA | Solid | 3546 | |
| 680-106200-20 | CV0971WW-CS12 | Total/NA | Solid | 3546 | |
| 680-106200-21 | CV0971WW-CS18 | Total/NA | Solid | 3546 | |
| LCS 680-353328/22-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 680-353328/21-A | Method Blank | Total/NA | Solid | 3546 | |

### Prep Batch: 353477

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 680-106200-18 | CV0971WW-CS6 | Total/NA | Solid | 3546 | |
| 680-106200-18 MS | CV0971WW-CS6 | Total/NA | Solid | 3546 | |
| 680-106200-18 MSD | CV0971WW-CS6 | Total/NA | Solid | 3546 | |
| 680-106200-22 | CV0971WW-CS24 | Total/NA | Solid | 3546 | |
| 680-106200-23 | CV0005AC-CS6 | Total/NA | Solid | 3546 | |
| 680-106200-24 | CV0005AC-CS12 | Total/NA | Solid | 3546 | |
| 680-106200-25 | CV0005AC-CS18 | Total/NA | Solid | 3546 | |
| 680-106200-26 | CV0005AC-CS24 | Total/NA | Solid | 3546 | |
| 680-106200-27 | CV0748WW-CS6 | Total/NA | Solid | 3546 | |
| 680-106200-28 | CV0748WW-CS12 | Total/NA | Solid | 3546 | |
| 680-106200-29 | CV0748WW-CS18 | Total/NA | Solid | 3546 | |
| 680-106200-30 | CV0748WW-CS24 | Total/NA | Solid | 3546 | |
| LCS 680-353477/22-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 680-353477/21-A | Method Blank | Total/NA | Solid | 3546 | |

### Analysis Batch: 353689

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 680-106200-19 | CV0971WW-CSD6 | Total/NA | Solid | 8270D_LL_PAH | 353328 |
| 680-106200-20 | CV0971WW-CS12 | Total/NA | Solid | 8270D_LL_PAH | 353328 |
| 680-106200-21 | CV0971WW-CS18 | Total/NA | Solid | 8270D_LL_PAH | 353328 |
| LCS 680-353328/22-A | Lab Control Sample | Total/NA | Solid | 8270D_LL_PAH | 353328 |
| MB 680-353328/21-A | Method Blank | Total/NA | Solid | 8270D_LL_PAH | 353328 |

### Analysis Batch: 353862

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 680-106200-18 | CV0971WW-CS6 | Total/NA | Solid | 8270D_LL_PAH | 353477 |
| 680-106200-18 MS | CV0971WW-CS6 | Total/NA | Solid | 8270D_LL_PAH | 353477 |
| 680-106200-18 MSD | CV0971WW-CS6 | Total/NA | Solid | 8270D_LL_PAH | 353477 |
| 680-106200-22 | CV0971WW-CS24 | Total/NA | Solid | 8270D_LL_PAH | 353477 |
| 680-106200-23 | CV0005AC-CS6 | Total/NA | Solid | 8270D_LL_PAH | 353477 |
| 680-106200-24 | CV0005AC-CS12 | Total/NA | Solid | 8270D_LL_PAH | 353477 |
| 680-106200-25 | CV0005AC-CS18 | Total/NA | Solid | 8270D_LL_PAH | 353477 |
| 680-106200-26 | CV0005AC-CS24 | Total/NA | Solid | 8270D_LL_PAH | 353477 |
| 680-106200-27 | CV0748WW-CS6 | Total/NA | Solid | 8270D_LL_PAH | 353477 |
| 680-106200-28 | CV0748WW-CS12 | Total/NA | Solid | 8270D_LL_PAH | 353477 |
| 680-106200-29 | CV0748WW-CS18 | Total/NA | Solid | 8270D_LL_PAH | 353477 |
| 680-106200-30 | CV0748WW-CS24 | Total/NA | Solid | 8270D_LL_PAH | 353477 |
| LCS 680-353477/22-A | Lab Control Sample | Total/NA | Solid | 8270D_LL_PAH | 353477 |
| MB 680-353477/21-A | Method Blank | Total/NA | Solid | 8270D_LL_PAH | 353477 |

# QC Association Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

## Metals

### Prep Batch: 353262

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 680-106200-24 | CV0005AC-CS12 | Total/NA | Solid | 3050B | |
| LCS 680-353262/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 680-353262/1-A | Method Blank | Total/NA | Solid | 3050B | |

### Prep Batch: 353312

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 680-106200-20 | CV0971WW-CS12 | Total/NA | Solid | 3050B | |
| 680-106200-23 | CV0005AC-CS6 | Total/NA | Solid | 3050B | |
| 680-106200-25 | CV0005AC-CS18 | Total/NA | Solid | 3050B | |
| 680-106200-26 | CV0005AC-CS24 | Total/NA | Solid | 3050B | |
| 680-106200-28 | CV0748WW-CS12 | Total/NA | Solid | 3050B | |
| LCS 680-353312/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 680-353312/1-A | Method Blank | Total/NA | Solid | 3050B | |

### Prep Batch: 353346

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 680-106200-18 | CV0971WW-CS6 | Total/NA | Solid | 3050B | |
| 680-106200-18 MS | CV0971WW-CS6 | Total/NA | Solid | 3050B | |
| 680-106200-18 MSD | CV0971WW-CS6 | Total/NA | Solid | 3050B | |
| 680-106200-19 | CV0971WW-CSD6 | Total/NA | Solid | 3050B | |
| 680-106200-21 | CV0971WW-CS18 | Total/NA | Solid | 3050B | |
| 680-106200-22 | CV0971WW-CS24 | Total/NA | Solid | 3050B | |
| 680-106200-27 | CV0748WW-CS6 | Total/NA | Solid | 3050B | |
| 680-106200-29 | CV0748WW-CS18 | Total/NA | Solid | 3050B | |
| 680-106200-30 | CV0748WW-CS24 | Total/NA | Solid | 3050B | |
| LCS 680-353346/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 680-353346/1-A | Method Blank | Total/NA | Solid | 3050B | |

### Analysis Batch: 353949

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 680-106200-18 | CV0971WW-CS6 | Total/NA | Solid | 6010C | 353346 |
| 680-106200-18 MS | CV0971WW-CS6 | Total/NA | Solid | 6010C | 353346 |
| 680-106200-18 MSD | CV0971WW-CS6 | Total/NA | Solid | 6010C | 353346 |
| 680-106200-19 | CV0971WW-CSD6 | Total/NA | Solid | 6010C | 353346 |
| 680-106200-21 | CV0971WW-CS18 | Total/NA | Solid | 6010C | 353346 |
| 680-106200-22 | CV0971WW-CS24 | Total/NA | Solid | 6010C | 353346 |
| 680-106200-24 | CV0005AC-CS12 | Total/NA | Solid | 6010C | 353262 |
| 680-106200-27 | CV0748WW-CS6 | Total/NA | Solid | 6010C | 353346 |
| 680-106200-29 | CV0748WW-CS18 | Total/NA | Solid | 6010C | 353346 |
| 680-106200-30 | CV0748WW-CS24 | Total/NA | Solid | 6010C | 353346 |
| LCS 680-353262/2-A | Lab Control Sample | Total/NA | Solid | 6010C | 353262 |
| LCS 680-353346/2-A | Lab Control Sample | Total/NA | Solid | 6010C | 353346 |
| MB 680-353262/1-A | Method Blank | Total/NA | Solid | 6010C | 353262 |
| MB 680-353346/1-A | Method Blank | Total/NA | Solid | 6010C | 353346 |

### Analysis Batch: 354233

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 680-106200-20 | CV0971WW-CS12 | Total/NA | Solid | 6010C | 353312 |
| 680-106200-23 | CV0005AC-CS6 | Total/NA | Solid | 6010C | 353312 |
| 680-106200-25 | CV0005AC-CS18 | Total/NA | Solid | 6010C | 353312 |
| 680-106200-26 | CV0005AC-CS24 | Total/NA | Solid | 6010C | 353312 |

## Metals (Continued)

### Analysis Batch: 354233 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 680-106200-28 | CV0748WW-CS12 | Total/NA | Solid | 6010C | 353312 |
| LCS 680-353312/2-A | Lab Control Sample | Total/NA | Solid | 6010C | 353312 |
| MB 680-353312/1-A | Method Blank | Total/NA | Solid | 6010C | 353312 |

### Analysis Batch: 354509

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 680-106200-20 | CV0971WW-CS12 | Total/NA | Solid | 6010C | 353312 |

## General Chemistry

### Analysis Batch: 353217

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 680-106200-18 | CV0971WW-CS6 | Total/NA | Solid | Moisture | |
| 680-106200-18 MS | CV0971WW-CS6 | Total/NA | Solid | Moisture | |
| 680-106200-18 MSD | CV0971WW-CS6 | Total/NA | Solid | Moisture | |
| 680-106200-19 | CV0971WW-CSD6 | Total/NA | Solid | Moisture | |
| 680-106200-20 | CV0971WW-CS12 | Total/NA | Solid | Moisture | |
| 680-106200-21 | CV0971WW-CS18 | Total/NA | Solid | Moisture | |
| 680-106200-22 | CV0971WW-CS24 | Total/NA | Solid | Moisture | |
| 680-106200-23 | CV0005AC-CS6 | Total/NA | Solid | Moisture | |
| 680-106200-24 | CV0005AC-CS12 | Total/NA | Solid | Moisture | |
| 680-106200-25 | CV0005AC-CS18 | Total/NA | Solid | Moisture | |
| 680-106200-26 | CV0005AC-CS24 | Total/NA | Solid | Moisture | |
| 680-106200-27 | CV0748WW-CS6 | Total/NA | Solid | Moisture | |
| 680-106200-28 | CV0748WW-CS12 | Total/NA | Solid | Moisture | |
| 680-106200-29 | CV0748WW-CS18 | Total/NA | Solid | Moisture | |
| 680-106200-30 | CV0748WW-CS24 | Total/NA | Solid | Moisture | |

# Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

## Client Sample ID: CV0971WW-CS6

**Lab Sample ID: 680-106200-18**
**Date Collected: 10/09/14 13:40**
**Matrix: Solid**
**Date Received: 10/11/14 09:33**
**Percent Solids: 88.0**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 30.04 g | 1 mL | 353477 | 10/15/14 10:01 | JMV | TAL SAV |
| Total/NA | Analysis | 8270D_LL_PAH | | 10 | 30.04 g | 1 mL | 353862 | 10/16/14 13:12 | KMW | TAL SAV |
| | Instrument ID: | CMSY | | | | | | | | |
| Total/NA | Prep | 3050B | | | 1.13 g | 100 mL | 353346 | 10/13/14 14:24 | CRW | TAL SAV |
| Total/NA | Analysis | 6010C | | 1 | 1.13 g | 100 mL | 353949 | 10/15/14 17:12 | BCB | TAL SAV |
| | Instrument ID: | ICPE | | | | | | | | |
| Total/NA | Analysis | Moisture | | 1 | | | 353217 | 10/12/14 13:31 | MDK | TAL SAV |
| | Instrument ID: | NOEQUIP | | | | | | | | |

## Client Sample ID: CV0971WW-CSD6

**Lab Sample ID: 680-106200-19**
**Date Collected: 10/09/14 13:40**
**Matrix: Solid**
**Date Received: 10/11/14 09:33**
**Percent Solids: 87.7**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 30.03 g | 1 mL | 353328 | 10/14/14 10:14 | JMK | TAL SAV |
| Total/NA | Analysis | 8270D_LL_PAH | | 20 | 30.03 g | 1 mL | 353689 | 10/15/14 22:44 | KMW | TAL SAV |
| | Instrument ID: | CMSY | | | | | | | | |
| Total/NA | Prep | 3050B | | | 1.10 g | 100 mL | 353346 | 10/13/14 14:24 | CRW | TAL SAV |
| Total/NA | Analysis | 6010C | | 1 | 1.10 g | 100 mL | 353949 | 10/15/14 18:48 | BCB | TAL SAV |
| | Instrument ID: | ICPE | | | | | | | | |
| Total/NA | Analysis | Moisture | | 1 | | | 353217 | 10/12/14 13:31 | MDK | TAL SAV |
| | Instrument ID: | NOEQUIP | | | | | | | | |

## Client Sample ID: CV0971WW-CS12

**Lab Sample ID: 680-106200-20**
**Date Collected: 10/09/14 13:50**
**Matrix: Solid**
**Date Received: 10/11/14 09:33**
**Percent Solids: 91.6**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 30.03 g | 1 mL | 353328 | 10/14/14 10:14 | JMK | TAL SAV |
| Total/NA | Analysis | 8270D_LL_PAH | | 10 | 30.03 g | 1 mL | 353689 | 10/15/14 23:06 | KMW | TAL SAV |
| | Instrument ID: | CMSY | | | | | | | | |
| Total/NA | Prep | 3050B | | | 1.17 g | 100 mL | 353312 | 10/13/14 12:36 | CRW | TAL SAV |
| Total/NA | Analysis | 6010C | | 1 | 1.17 g | 100 mL | 354233 | 10/18/14 01:55 | BCB | TAL SAV |
| | Instrument ID: | ICPE | | | | | | | | |
| Total/NA | Prep | 3050B | | | 1.17 g | 100 mL | 353312 | 10/13/14 12:36 | CRW | TAL SAV |
| Total/NA | Analysis | 6010C | | 10 | 1.17 g | 100 mL | 354509 | 10/20/14 16:34 | BCB | TAL SAV |
| | Instrument ID: | ICPE | | | | | | | | |
| Total/NA | Analysis | Moisture | | 1 | | | 353217 | 10/12/14 13:31 | MDK | TAL SAV |
| | Instrument ID: | NOEQUIP | | | | | | | | |

# Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

## Client Sample ID: CV0971WW-CS18

**Lab Sample ID: 680-106200-21**
**Date Collected: 10/09/14 14:00**
**Matrix: Solid**
**Date Received: 10/11/14 09:33**
**Percent Solids: 91.9**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 30.08 g | 1 mL | 353328 | 10/14/14 10:14 | JMK | TAL SAV |
| Total/NA | Analysis | 8270D_LL_PAH | | 10 | 30.08 g | 1 mL | 353689 | 10/15/14 23:28 | KMW | TAL SAV |
| | Instrument ID: | CMSY | | | | | | | | |
| Total/NA | Prep | 3050B | | | 1.11 g | 100 mL | 353346 | 10/13/14 14:24 | CRW | TAL SAV |
| Total/NA | Analysis | 6010C | | 1 | 1.11 g | 100 mL | 353949 | 10/15/14 18:18 | BCB | TAL SAV |
| | Instrument ID: | ICPE | | | | | | | | |
| Total/NA | Analysis | Moisture | | 1 | | | 353217 | 10/12/14 13:31 | MDK | TAL SAV |
| | Instrument ID: | NOEQUIP | | | | | | | | |

## Client Sample ID: CV0971WW-CS24

**Lab Sample ID: 680-106200-22**
**Date Collected: 10/09/14 14:10**
**Matrix: Solid**
**Date Received: 10/11/14 09:33**
**Percent Solids: 91.6**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 30.01 g | 1 mL | 353477 | 10/15/14 10:01 | JMV | TAL SAV |
| Total/NA | Analysis | 8270D_LL_PAH | | 1 | 30.01 g | 1 mL | 353862 | 10/16/14 13:34 | KMW | TAL SAV |
| | Instrument ID: | CMSY | | | | | | | | |
| Total/NA | Prep | 3050B | | | 1.02 g | 100 mL | 353346 | 10/13/14 14:24 | CRW | TAL SAV |
| Total/NA | Analysis | 6010C | | 1 | 1.02 g | 100 mL | 353949 | 10/15/14 18:40 | BCB | TAL SAV |
| | Instrument ID: | ICPE | | | | | | | | |
| Total/NA | Analysis | Moisture | | 1 | | | 353217 | 10/12/14 13:31 | MDK | TAL SAV |
| | Instrument ID: | NOEQUIP | | | | | | | | |

## Client Sample ID: CV0005AC-CS6

**Lab Sample ID: 680-106200-23**
**Date Collected: 10/09/14 10:10**
**Matrix: Solid**
**Date Received: 10/11/14 09:33**
**Percent Solids: 91.7**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 30.05 g | 1 mL | 353477 | 10/15/14 10:01 | JMV | TAL SAV |
| Total/NA | Analysis | 8270D_LL_PAH | | 10 | 30.05 g | 1 mL | 353862 | 10/16/14 13:56 | KMW | TAL SAV |
| | Instrument ID: | CMSY | | | | | | | | |
| Total/NA | Prep | 3050B | | | 1.06 g | 100 mL | 353312 | 10/13/14 12:36 | CRW | TAL SAV |
| Total/NA | Analysis | 6010C | | 1 | 1.06 g | 100 mL | 354233 | 10/18/14 02:03 | BCB | TAL SAV |
| | Instrument ID: | ICPE | | | | | | | | |
| Total/NA | Analysis | Moisture | | 1 | | | 353217 | 10/12/14 13:31 | MDK | TAL SAV |
| | Instrument ID: | NOEQUIP | | | | | | | | |

## Client Sample ID: CV0005AC-CS12

**Lab Sample ID: 680-106200-24**
**Date Collected: 10/09/14 10:20**
**Matrix: Solid**
**Date Received: 10/11/14 09:33**
**Percent Solids: 86.6**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 30.05 g | 1 mL | 353477 | 10/15/14 10:01 | JMV | TAL SAV |

# Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

## Client Sample ID: CV0005AC-CS12

**Lab Sample ID: 680-106200-24**
**Date Collected: 10/09/14 10:20**
**Matrix: Solid**
**Date Received: 10/11/14 09:33**
**Percent Solids: 86.6**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8270D_LL_PAH | | 1 | 30.05 g | 1 mL | 353862 | 10/16/14 14:19 | KMW | TAL SAV |
| | Instrument ID: CMSY | | | | | | | | | |
| Total/NA | Prep | 3050B | | | 1.17 g | 100 mL | 353262 | 10/13/14 09:39 | CRW | TAL SAV |
| Total/NA | Analysis | 6010C | | 1 | 1.17 g | 100 mL | 353949 | 10/15/14 21:14 | BCB | TAL SAV |
| | Instrument ID: ICPE | | | | | | | | | |
| Total/NA | Analysis | Moisture | | 1 | | | 353217 | 10/12/14 13:31 | MDK | TAL SAV |
| | Instrument ID: NOEQUIP | | | | | | | | | |

## Client Sample ID: CV0005AC-CS18

**Lab Sample ID: 680-106200-25**
**Date Collected: 10/09/14 10:30**
**Matrix: Solid**
**Date Received: 10/11/14 09:33**
**Percent Solids: 94.5**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 30.01 g | 1 mL | 353477 | 10/15/14 10:01 | JMV | TAL SAV |
| Total/NA | Analysis | 8270D_LL_PAH | | 1 | 30.01 g | 1 mL | 353862 | 10/16/14 17:00 | KMW | TAL SAV |
| | Instrument ID: CMSY | | | | | | | | | |
| Total/NA | Prep | 3050B | | | 1.18 g | 100 mL | 353312 | 10/13/14 12:36 | CRW | TAL SAV |
| Total/NA | Analysis | 6010C | | 1 | 1.18 g | 100 mL | 354233 | 10/18/14 00:59 | BCB | TAL SAV |
| | Instrument ID: ICPE | | | | | | | | | |
| Total/NA | Analysis | Moisture | | 1 | | | 353217 | 10/12/14 13:31 | MDK | TAL SAV |
| | Instrument ID: NOEQUIP | | | | | | | | | |

## Client Sample ID: CV0005AC-CS24

**Lab Sample ID: 680-106200-26**
**Date Collected: 10/09/14 10:40**
**Matrix: Solid**
**Date Received: 10/11/14 09:33**
**Percent Solids: 86.8**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 30.02 g | 1 mL | 353477 | 10/15/14 10:01 | JMV | TAL SAV |
| Total/NA | Analysis | 8270D_LL_PAH | | 1 | 30.02 g | 1 mL | 353862 | 10/16/14 17:22 | KMW | TAL SAV |
| | Instrument ID: CMSY | | | | | | | | | |
| Total/NA | Prep | 3050B | | | 1.00 g | 100 mL | 353312 | 10/13/14 12:36 | CRW | TAL SAV |
| Total/NA | Analysis | 6010C | | 1 | 1.00 g | 100 mL | 354233 | 10/18/14 00:33 | BCB | TAL SAV |
| | Instrument ID: ICPE | | | | | | | | | |
| Total/NA | Analysis | Moisture | | 1 | | | 353217 | 10/12/14 13:31 | MDK | TAL SAV |
| | Instrument ID: NOEQUIP | | | | | | | | | |

## Client Sample ID: CV0748WW-CS6

**Lab Sample ID: 680-106200-27**
**Date Collected: 10/09/14 12:40**
**Matrix: Solid**
**Date Received: 10/11/14 09:33**
**Percent Solids: 90.1**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 30.02 g | 1 mL | 353477 | 10/15/14 10:01 | JMV | TAL SAV |

# Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

## Client Sample ID: CV0748WW-CS6

**Lab Sample ID: 680-106200-27**
**Date Collected: 10/09/14 12:40**
**Matrix: Solid**
**Date Received: 10/11/14 09:33**
**Percent Solids: 90.1**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8270D_LL_PAH | | 10 | 30.02 g | 1 mL | 353862 | 10/16/14 17:44 | KMW | TAL SAV |
| | Instrument ID: CMSY | | | | | | | | | |
| Total/NA | Prep | 3050B | | | 1.11 g | 100 mL | 353346 | 10/13/14 14:24 | CRW | TAL SAV |
| Total/NA | Analysis | 6010C | | 1 | 1.11 g | 100 mL | 353949 | 10/15/14 18:14 | BCB | TAL SAV |
| | Instrument ID: ICPE | | | | | | | | | |
| Total/NA | Analysis | Moisture | | 1 | | | 353217 | 10/12/14 13:31 | MDK | TAL SAV |
| | Instrument ID: NOEQUIP | | | | | | | | | |

## Client Sample ID: CV0748WW-CS12

**Lab Sample ID: 680-106200-28**
**Date Collected: 10/09/14 12:50**
**Matrix: Solid**
**Date Received: 10/11/14 09:33**
**Percent Solids: 85.8**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 30.04 g | 1 mL | 353477 | 10/15/14 10:01 | JMV | TAL SAV |
| Total/NA | Analysis | 8270D_LL_PAH | | 1 | 30.04 g | 1 mL | 353862 | 10/16/14 18:06 | KMW | TAL SAV |
| | Instrument ID: CMSY | | | | | | | | | |
| Total/NA | Prep | 3050B | | | 1.03 g | 100 mL | 353312 | 10/13/14 12:36 | CRW | TAL SAV |
| Total/NA | Analysis | 6010C | | 1 | 1.03 g | 100 mL | 354233 | 10/18/14 01:16 | BCB | TAL SAV |
| | Instrument ID: ICPE | | | | | | | | | |
| Total/NA | Analysis | Moisture | | 1 | | | 353217 | 10/12/14 13:31 | MDK | TAL SAV |
| | Instrument ID: NOEQUIP | | | | | | | | | |

## Client Sample ID: CV0748WW-CS18

**Lab Sample ID: 680-106200-29**
**Date Collected: 10/09/14 13:00**
**Matrix: Solid**
**Date Received: 10/11/14 09:33**
**Percent Solids: 84.2**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 30.05 g | 1 mL | 353477 | 10/15/14 10:01 | JMV | TAL SAV |
| Total/NA | Analysis | 8270D_LL_PAH | | 1 | 30.05 g | 1 mL | 353862 | 10/16/14 18:28 | KMW | TAL SAV |
| | Instrument ID: CMSY | | | | | | | | | |
| Total/NA | Prep | 3050B | | | 1.01 g | 100 mL | 353346 | 10/13/14 14:24 | CRW | TAL SAV |
| Total/NA | Analysis | 6010C | | 1 | 1.01 g | 100 mL | 353949 | 10/15/14 18:01 | BCB | TAL SAV |
| | Instrument ID: ICPE | | | | | | | | | |
| Total/NA | Analysis | Moisture | | 1 | | | 353217 | 10/12/14 13:31 | MDK | TAL SAV |
| | Instrument ID: NOEQUIP | | | | | | | | | |

## Client Sample ID: CV0748WW-CS24

**Lab Sample ID: 680-106200-30**
**Date Collected: 10/09/14 13:10**
**Matrix: Solid**
**Date Received: 10/11/14 09:33**
**Percent Solids: 87.9**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3546 | | | 29.99 g | 1 mL | 353477 | 10/15/14 10:01 | JMV | TAL SAV |

# Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

## Client Sample ID: CV0748WW-CS24

**Lab Sample ID: 680-106200-30**

**Date Collected: 10/09/14 13:10**
**Date Received: 10/11/14 09:33**

**Matrix: Solid**
**Percent Solids: 87.9**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8270D_LL_PAH | | 1 | 29.99 g | 1 mL | 353862 | 10/16/14 18:51 | KMW | TAL SAV |
| | Instrument ID: | CMSY | | | | | | | | |
| Total/NA | Prep | 3050B | | | 1.16 g | 100 mL | 353346 | 10/13/14 14:24 | CRW | TAL SAV |
| Total/NA | Analysis | 6010C | | 1 | 1.16 g | 100 mL | 353949 | 10/15/14 18:53 | BCB | TAL SAV |
| | Instrument ID: | ICPE | | | | | | | | |
| Total/NA | Analysis | Moisture | | 1 | | | 353217 | 10/12/14 13:31 | MDK | TAL SAV |
| | Instrument ID: | NOEQUIP | | | | | | | | |

**Laboratory References:**

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 89199

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

| | | |
|---|---|---|
| PROJECT REFERENCE: 35th Ave | PROJECT NO.: 20140778-1006 | PROJECT LOCATION (STATE): AL |
| TAL (LAB) PROJECT MANAGER: Lisa Harvey | P.O. NUMBER | CONTRACT NO. |
| CLIENT (SITE) PM: Russell Henlon | CLIENT PHONE | CLIENT FAX |
| CLIENT NAME: OTIE | CLIENT E-MAIL | |
| CLIENT ADDRESS | | |
| COMPANY CONTRACTING THIS WORK (if applicable) | | |

MATRIX TYPE: COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: Metals (Al, Fe, Ag, Pb); PAHs

PRESERVATIVE

PAGE 2 OF 3

STANDARD REPORT DELIVERY ( )

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) (✓)

DATE DUE 7 day

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

| SAMPLE DATE | SAMPLE TIME | SAMPLE IDENTIFICATION | COMPOSITE (C) OR GRAB (G) INDICATE | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | Metals (Al, Fe, Ag, Pb) | PAHs | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/8/14 | 13:00 | CV0005BB-CS24 | C | | X | | | X | X | |
| 10/8/14 | 09:20 | CV0005E-CS6 | C | | X | | | X | X | |
| 10/8/14 | 09:30 | CV0005E-CS12 | C | | X | | | X | X | |
| 10/8/14 | 09:40 | CV0005E-CS18 | C | | X | | | X | X | |
| 10/8/14 | 09:50 | CV0005E-CS24 | C | | X | | | X | X | |
| 10/9/14 | 13:40 | CV0971WW-CS6 | C | | X | | | X | X | MS/MSD IF possible |
| 10/9/14 | 13:40 | CV0971WW-CSD6 | C | | X | | | X | X | |
| 10/9/14 | 13:50 | CV0971WW-CS12 | C | | X | | | X | X | |
| 10/9/14 | 14:00 | CV0971WW-CS18 | C | | X | | | X | X | |
| 10/9/14 | 14:10 | CV0971WW-CS24 | C | | X | | | X | X | |
| 10/9/14 | 10:10 | CV0005AC-CS6 | C | | X | | | X | X | |
| 10/9/14 | 10:20 | CV0005AC-CS12 | C | | X | | | X | X | |

| RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME |
|---|---|---|---|---|---|---|---|---|
| [signature] | 10/10/14 | 16:00 | | | | | | |

| RECEIVED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: (SIGNATURE) | DATE | TIME | RECEIVED BY: (SIGNATURE) | DATE | TIME |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

LABORATORY USE ONLY

| RECEIVED FOR LABORATORY BY: (SIGNATURE) | DATE | TIME | CUSTODY INTACT | CUSTODY SEAL NO. | SAVANNAH LOG NO. | LABORATORY REMARKS |
|---|---|---|---|---|---|---|
| [signature] | 10/11/14 | 0933 | YES ( ) NO ( ) | | 680 106200 | 5.2/1.8/4.8/0.8 |

TAL8240-680 (1008)

Serial Number 89198

# ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

| | | | |
|---|---|---|---|
| PROJECT REFERENCE: 35th Ave | PROJECT NO.: 2014078-1006 | PROJECT LOCATION (STATE): AL | PAGE 3 OF 3 |
| TAL (LAB) PROJECT MANAGER: LISA HARVEY | P.O. NUMBER: | CONTRACT NO.: | STANDARD REPORT DELIVERY ○ |
| CLIENT (SITE) PM: Russell Henderson | CLIENT PHONE: | CLIENT FAX: | DATE DUE: |
| CLIENT NAME: OTIE | CLIENT E-MAIL: | | EXPEDITED REPORT DELIVERY (SURCHARGE) ✓ |
| CLIENT ADDRESS: | | | DATE DUE: 7day |
| COMPANY CONTRACTING THIS WORK (if applicable): | | | NUMBER OF COOLERS SUBMITTED PER SHIPMENT: |

REQUIRED ANALYSIS: Al, As, Fe, Pb / PAHS

PRESERVATIVE

| SAMPLE DATE | SAMPLE TIME | SAMPLE IDENTIFICATION | COMPOSITE (C) OR GRAB (G) INDICATE | AQUEOUS (WATER) | SOLID OR SEMISOLID | AIR | NONAQUEOUS LIQUID (OIL, SOLVENT, ...) | Al, As, Fe, Pb | PAHS | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| 10/9/14 | 10:30 | CV0005AC-CS18 | C | | X | | | X | X | |
| 10/9/14 | 10:40 | CV0005AC-CS24 | C | | X | | | X | X | |
| 10/9/14 | 12:40 | CV0748WN-CS6 | C | | X | | | X | X | |
| 10/9/14 | 12:50 | CV0748WN-CS12 | C | | X | | | X | X | |
| 10/9/14 | 13:00 | CV0748WN-CS18 | C | | X | | | X | X | |
| 10/9/14 | 13:10 | CV0748WN-CS24 | C | | X | | | X | X | |

| RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME | RELINQUISHED BY: (SIGNATURE) | DATE | TIME |
|---|---|---|---|---|---|---|---|---|
| [signature] | 10/10/14 | 16:00 | | | | | | |
| **RECEIVED BY: (SIGNATURE)** | **DATE** | **TIME** | **RECEIVED BY: (SIGNATURE)** | **DATE** | **TIME** | **RECEIVED BY: (SIGNATURE)** | **DATE** | **TIME** |
| | | | | | | | | |

LABORATORY USE ONLY

| RECEIVED FOR LABORATORY BY: (SIGNATURE) | DATE | TIME | CUSTODY INTACT | CUSTODY SEAL NO. | SAVANNAH LOG NO. | LABORATORY REMARKS |
|---|---|---|---|---|---|---|
| [signature] | 10/11/14 | 0933 | YES ○ NO ○ | | 680 106200 | 5.2/18/4.8/0.8°C |

TAL8240-680 (1008)

# Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-106200-2
SDG Number: 680-106200-02

**Login Number: 106200**
**List Number: 1**
**Creator: Banda, Christy S**

**List Source: TestAmerica Savannah**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | N/A | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

# Certification Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-106200-2
SDG: 680-106200-02

## Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|---|---|---|---|---|
| Alabama | State Program | 4 | 41450 | 06-30-15 |