Data Validation Checklist
Inorganic Analyses

Project:	35TH Avenue Superfund Site	Project No:	60430028; 1
Laboratory:	TestAmerica – Savannah, GA	Job ID.:	680-107310-1
Method:	SW-846 6010C[1]	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Date(s) Collected:	11/13/2014
Reviewer:	Teresa Amentt Jennings, URS Group, Inc.	Date:	08/24/2015
Concurrence[2]:	Martha Meyers-Lee, URS Group, Inc.	Date:	08/31/2015

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: • Aluminum: 77000 mg/kg • Arsenic: 0.68 mg/Kg • Iron: 55000 mg/kg • Lead: 400 mg/Kg The MDL for each target analyte was less than the respective above-mentioned RSL in undiluted samples, except arsenic in samples 680-107310-5 (CV1063B-CS0-4") where the MDL was 0.71 mg/Kg. A data gap does not exist, as arsenic was detected in the sample.	
8. Were method blank (MB) prepared at the appropriate frequency (one per 20 samples, batch, matrix, and level)?	✓				

[1]Aluminum, arsenic, iron, and lead
[2] Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
9. Was a calibration blank (ICB/CCB) analyzed at the beginning, after every 10th sample, and at the end of each analytical run?	✓				
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 a 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? o If blank result > RL, • Flag sample results ≤ RL with a U • Flag positive sample results > RL and ≤10x blank result , as J+ positive results o If blank result ≤RL, • Flag sample results ≤ RL with a U • 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?	✓			CV1063A-CSD0-4" (680-107310-4) is a field duplicate of CV1063A-CS0-4" (680-107310-3).	
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? o 6010C: • ICAL: Blank and one standard • ICV initially, and CCV every 10th sample and at the end of the analytical run • Lower Limit of Quantitation Check Sample (CRI) to be analyzed after establishing lower laboratory reporting limits and as needed	✓			6010C: 11/20/2014 and 11/21/2014. 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? o 6010C • ICV/CCV (Criteria: 90-110%R): ▪ If %R <75, then J- flag positive results and R-flag non-detects ▪ If 75-89%R, then J- flag positive results and UJ flag non-detects ▪ If 111-125%R, then J flag positive results ▪ If >125%R, then J+ flag positive results	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
▪ If >160%R, then R flag positive results • 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): ▪ If CRI %R <50 (<30% for Sb, Pb, TL), then R flag results ≤ 2x RL and J flag positive results >2x RL ▪ If CRI %R 50-69% (30-49% for Sb, Pb, TL), then J- and UJ flag positive results <2x RL and ND, respectively ▪ If CRI %R >130% and ≤180% (>150%, but ≤200% for Sb, Pb, TL), then J+ flag positive results <2x RL ▪ If CRI %R >180% (>200% for Sb, Pb, TL), 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: o If >120%R (or >true value plus 2x CRQL), J+ flag positive results o If 50-79%R (or less than true value – 2x the CRQL), J- flag positive results and UJ flag non-detects 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? o Soil: • LCS result > Upper control limit (UCL): J+ flag positive results • LCS result < Lower control limit (LCL): J- flag positive results and UJ flag non-detects	✓				
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?	✓				
24. Is the MS and MSD parent sample a project-specific sample?	✓			Prep Batch 359032: 680-107310-6 (CV0971A0APa-CS0-4"), MS/MSD/PDS	
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 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		✓		FM0281C-CS18" (680-107310-6), 6010C: Lead MS and MSD %R @ 53 and 70 (75-125%R). PDS recovery is reported as "NC" in laboratory data package, and calculated by data reviewer to be 96% (80-120%R). J Flag result.	J

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
applicable) and 80-120%R for 7196), and project (as noted below) specifications? *Only QC results for project samples are evaluated.* If not, o 6010C: • If MS %R <30 and PDS %R <75, then J- and R Flag positive and ND results, respectively • If MS %R <30 and PDS %R >75, then J flag positive and UJ flag non-detect results • If MS and MSD %R 30-74 and PDS%R <75, then J- flag positive and UJ flag non-detect results • If MS and MSD %R 30-74 and PDS%R ≥75, then J flag positive and UJ flag non-detect results • If MS, MSD, and PDS %R >125, J+ flag positive results • If MS and MSD %R >125 and PDS %R ≤125, then J flag positive results • If MS and MSD %R <30 and no PDS, then J- flag positive and R-flag non-detect results • If MS and MSD %R 30-74 and no PDS, then J- and UJ flag positive and non-detect results, respectively • If MS and MSD %R >125 and no PDS, then J+ flag positive results					
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.* o If RPD >20%, J and UJ flag positive and non-detect results.	✓				
28. Was a serial dilution conducted for 6010C/EPA 200.7?	✓				
29. Is the serial dilution parent sample a project-specific sample?	✓			680-107310-6 (FM0281C-CS18")	
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.* o If %D >10, J and UJ flag positive and non-detect results, respectively.	✓				
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.* 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)	

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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: 680-107310-1
Sdg Number: 680-107310-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-107310-1	CV1061A-CS0-4"	Solid	11/13/2014 1035	11/15/2014 0930
680-107310-2	CV1061B-CS0-4"	Solid	11/13/2014 1040	11/15/2014 0930
680-107310-3	CV1063A-CS0-4"	Solid	11/13/2014 1105	11/15/2014 0930
680-107310-4	CV1063A-CSD0-4"	Solid	11/13/2014 1110	11/15/2014 0930
680-107310-5	CV1063B-CS0-4"	Solid	11/13/2014 1115	11/15/2014 0930
680-107310-6	CV0971A0APa-CS0-4"	Solid	11/13/2014 1145	11/15/2014 0930
680-107310-6MS	CV0971A0APa-CS0-4"	Solid	11/13/2014 1145	11/15/2014 0930
680-107310-6MSD	CV0971AOAPa-CS0-4"	Solid	11/13/2014 1145	11/15/2014 0930

ATTACHMENT B

FIELD DUPLICATE EVAULATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	CV1063A-CS0-4" 680-107310-3	RL	CV1063A-CSD0-4" 680-107310-4	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Aluminum	13000	22	13000	21	mg/kg	108	0	NA	NA	None, RPD ≤ 50%
Arsenic	25	2.2	26	2.1	mg/kg	10.8	4	NA	NA	None, RPD ≤ 50%
Iron	45000	22	46000	21	mg/kg	108	2	NA	NA	None, RPD ≤ 50%
Lead	310	1.1	320	1.0	mg/kg	5.3	3	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

ATTACHMENT C

CASE NARRATIVE

CASE NARRATIVE
Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-107310-1

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.

RECEIPT

The samples were received on 11/15/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.3 C.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH

Samples CV1061A-CS0-4" (680-107310-1), CV1061B-CS0-4" (680-107310-2), CV1063A-CS0-4" (680-107310-3), CV1063A-CSD0-4" (680-107310-4), CV1063B-CS0-4" (680-107310-5) and CV0971A0APa-CS0-4" (680-107310-6) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW846 Method 8270D. The samples were prepared on 11/17/2014 and analyzed on 11/19/2014.

Samples CV1061A-CS0-4" (680-107310-1)[10X], CV1061B-CS0-4" (680-107310-2)[10X], CV1063A-CS0-4" (680-107310-3)[10X], CV1063A-CSD0-4" (680-107310-4)[10X], CV1063B-CS0-4" (680-107310-5)[10X] and CV0971A0APa-CS0-4" (680-107310-6)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly. As such, surrogate were diluted out and are not reported. Also elevated reporting limits (RLs) are provided.

Benzo[k]fluoranthene, Fluoranthene and Pyrene recovered outside the recovery criteria low for the MS of sample CV0971A0APa-CS0-4"MS (680-107310-6) in batch 680-359503.

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

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

METALS (ICP)

Samples CV1061A-CS0-4" (680-107310-1), CV1061B-CS0-4" (680-107310-2), CV1063A-CS0-4" (680-107310-3), CV1063A-CSD0-4" (680-107310-4), CV1063B-CS0-4" (680-107310-5) and CV0971A0APa-CS0-4" (680-107310-6) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 11/17/2014 and analyzed on 11/20/2014.

Lead recovered outside the recovery criteria low for the MS/MSD of sample CV0971A0APa-CS0-4' (680-107310-6) in batch 680-359921. Aluminum failed the recovery criteria high.

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

PERCENT SOLIDS/MOISTURE

Samples CV1061A-CS0-4" (680-107310-1), CV1061B-CS0-4" (680-107310-2), CV1063A-CS0-4" (680-107310-3), CV1063A-CSD0-4" (680-107310-4), CV1063B-CS0-4" (680-107310-5) and CV0971A0APa-CS0-4" (680-107310-6) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 11/15/2014.

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

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV1061A-CS0-4''
Lab Sample ID: 680-107310-1
Lab Name: TestAmerica Savannah
Job No.: 680-107310-1
SDG ID.: 680-107310-1
Matrix: Solid
Date Sampled: 11/13/2014 10:35
Reporting Basis: DRY
Date Received: 11/15/2014 09:30
% Solids: 85.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Meth
7429-90-5	Aluminum	13000	20	10	mg/Kg			1	6010C
7440-38-2	Arsenic	55	2.0	0.60	mg/Kg			1	6010C
7439-89-6	Iron	69000	20	7.1	mg/Kg			1	6010C
7439-92-1	Lead	500	1.0	0.54	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: CV1061B-CS0-4''
Lab Sample ID: 680-107310-2
Lab Name: TestAmerica Savannah
Job No.: 680-107310-1
SDG ID.: 680-107310-1
Matrix: Solid
Date Sampled: 11/13/2014 10:40
Reporting Basis: DRY
Date Received: 11/15/2014 09:30
% Solids: 85.7

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	41	2.1	0.61	mg/Kg			1	6010C
7439-89-6	Iron	77000	21	7.2	mg/Kg			1	6010C
7439-92-1	Lead	370	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: CV1063A-CS0-4''
Lab Sample ID: 680-107310-3
Lab Name: TestAmerica Savannah
Job No.: 680-107310-1
SDG ID.: 680-107310-1
Matrix: Solid
Date Sampled: 11/13/2014 11:05
Reporting Basis: DRY
Date Received: 11/15/2014 09:30
% Solids: 81.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	13000	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	25	2.2	0.66	mg/Kg			1	6010C
7439-89-6	Iron	45000	22	7.8	mg/Kg			1	6010C
7439-92-1	Lead	310	1.1	0.59	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: CV1063A-CSD0-4''
Lab Sample ID: 680-107310-4
Lab Name: TestAmerica Savannah
Job No.: 680-107310-1
SDG ID.: 680-107310-1
Matrix: Solid
Date Sampled: 11/13/2014 11:10
Reporting Basis: DRY
Date Received: 11/15/2014 09:30
% Solids: 82.5

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	26	2.1	0.61	mg/Kg			1	6010C
7439-89-6	Iron	46000	21	7.2	mg/Kg			1	6010C
7439-92-1	Lead	320	1.0	0.54	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: CV1063B-CS0-4''
Lab Sample ID: 680-107310-5
Lab Name: TestAmerica Savannah
Job No.: 680-107310-1
SDG ID.: 680-107310-1
Matrix: Solid
Date Sampled: 11/13/2014 11:15
Reporting Basis: DRY
Date Received: 11/15/2014 09:30
% Solids: 82.8

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	27	2.4	0.71	mg/Kg			1	6010C
7439-89-6	Iron	46000	24	8.5	mg/Kg			1	6010C
7439-92-1	Lead	610	1.2	0.64	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: CV0971A0APa-CS0-4''

Lab Sample ID: 680-107310-6

Lab Name: TestAmerica Savannah

Job No.: 680-107310-1

SDG ID.: 680-107310-1

Matrix: Solid

Date Sampled: 11/13/2014 11:45

Reporting Basis: DRY

Date Received: 11/15/2014 09:30

% Solids: 84.5

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	23	2.1	0.61	mg/Kg			1	6010C
7439-89-6	Iron	36000	21	7.3	mg/Kg			1	6010C
7439-92-1	Lead	190	1.0	0.55	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)

Data Validation Checklist
Semivolatile Organic Analyses

Project:	35TH Avenue Superfund Site	Project No:	60430028; 1
Laboratory:	TestAmerica - Savannah, GA	Job ID.:	680-107310-1
Method:	SW-846 8270D Low-Level (PAH)	Associated Samples:	Refer to **Attachment A** (Sample Summary)
Matrix:	Soil	Date(s) Collected:	11/13/2014
Reviewer:	Teresa Amentt Jennings, URS Group, Inc.	Date:	08/24/2015
Concurrence[1]:	Martha Meyers-Lee, URS Group, Inc.	Date:	08/31/2015

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.			✓	All samples were analyzed at a dilution due to elevated concentrations of target analytes and the nature of the sample matrix.	
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 a 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?			✓		

[1] Independent technical reviewer

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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.	
14. Is a field duplicate associated with this Job?	✓			CV1063A-CSD0-4" (680-107310-4) is a field duplicate of CV1063A-CS0-4" (680-107310-3).	
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? • 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. • An initial calibration is to be associated with each sample analysis. • A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.	✓			Instrument ID: CMSK • Initial Calibration (ICAL): 11/19/2014 • Initial Calibration Verification (ICV): 11/19/2014 @ 15:07	

19. Were calibration results within laboratory/project specifications?
• 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)):
  o 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
  o 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)
• 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)):
  o If %D> Control Limit (>50% for poor performers), then J flag positive results and UJ flag non-detects
  o 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).	✓				

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
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)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			Prep Batch 359074: 680-107310-A-6 (CV0971A0APa-CS0-4"), MS/MSD	
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.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If either MS or MSD recovery meets control limits, qualification of data is not warranted. • MS and MSD %R<10: J and R Flag positive and ND results, respectively • MS and MSD %R >10 and <LCL: J Flag positive and UJ flag non-detect results • MS and MSD R% >UCL (or 140): J Flag positive results		✓		680-107310-6 (CV0971A0APa-CS0-4"): • Benzo[k]fluoranthene @ 33 and 97%R (38-148%R). Qualification of data not required[2]. • Fluoranthene @ 28 and 85%R (36-147%R). Qualification of data not required[2]. • Pyrene @ 21 and 102%R (38-145%R). Qualification of data not required[2].	
26. For all analytes with native sample concentrations < 4 x spiking level, were laboratory criteria met for precision during the MS and MSD analysis? *Only QC results for project samples that are reported under this Job ID are evaluated.* • If the native sample concentration > 4x spiking level, then an evaluation of interference is not possible. • If %RPD > UCL, J flag positive result and UJ flag non-detect result	✓				
27. Were surrogate recoveries within lab/project specifications? • 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) • If 2 or more Acid or BN %R >UCL, then J flag positive associated sample results (i.e., acid or BN results) • If 2 or more Acid or BN %R ≥10%, but <LCL, then J flag positive and UJ flag non-detect associated sample results (i.e., acid or BN results) • 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)		✓		Surrogate o-terphenyl was not recovered (0%) during the diluted analysis of all samples. Qualification of sample results is not warranted, as the surrogate compound was diluted out of the samples.	
28. Were internal standard (IS) results within lab/project specifications?	✓				

[2]The recovery of either MS or MSD met control limits.

Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
• 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 • If IS area counts are greater than 100% of the midpoint calibration standard, then J flag positive results • 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 • If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R flag associated data. • 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 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: 680-107310-1
Sdg Number: 680-107310-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-107310-1	CV1061A-CS0-4"	Solid	11/13/2014 1035	11/15/2014 0930
680-107310-2	CV1061B-CS0-4"	Solid	11/13/2014 1040	11/15/2014 0930
680-107310-3	CV1063A-CS0-4"	Solid	11/13/2014 1105	11/15/2014 0930
680-107310-4	CV1063A-CSD0-4"	Solid	11/13/2014 1110	11/15/2014 0930
680-107310-5	CV1063B-CS0-4"	Solid	11/13/2014 1115	11/15/2014 0930
680-107310-6	CV0971A0APa-CS0-4"	Solid	11/13/2014 1145	11/15/2014 0930
680-107310-6MS	CV0971A0APa-CS0-4"	Solid	11/13/2014 1145	11/15/2014 0930
680-107310-6MSD	CV0971AOAPa-CS0-4"	Solid	11/13/2014 1145	11/15/2014 0930

ATTACHMENT B

FIELD DUPLICATE EVALUATION

Evaluation of Field Duplicate Results **Attachment B**

Analyte	CV1063A-CS0-4'' 680-107310-3	RL	CV1063A-CSD0-4'' 680-107310-4	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action
Benzo[a]anthracene	310	82	270	81	µg/kg	407.5	NA	40	163	None, absolute difference ≤ 2x Avg RL
Benzo[a]pyrene	320	82	280	81	µg/kg	407.5	NA	40	163	None, absolute difference ≤ 2x Avg RL
Benzo[b]fluoranthene	610	82	520	81	µg/kg	407.5	16	NA	NA	None, RPD ≤ 50%
Benzo[g,h,i]perylene	280	82	230	81	µg/kg	407.5	NA	50	163	None, absolute difference ≤ 2x Avg RL
Benzo[k]fluoranthene	180	82	160	81	µg/kg	407.5	NA	20	163	None, absolute difference ≤ 2x Avg RL
Chrysene	440	82	390	81	µg/kg	407.5	NA	50	163	None, absolute difference ≤ 2x Avg RL
Dibenz(a,h)anthracene	110	82	85	81	µg/kg	407.5	NA	25	163	None, absolute difference ≤ 2x Avg RL
Fluoranthene	380	82	380	81	µg/kg	407.5	NA	0	163	None, absolute difference ≤ 2x Avg RL
Indeno[1,2,3-cd]pyrene	220	82	210	81	µg/kg	407.5	NA	10	163	None, absolute difference ≤ 2x Avg RL
1-Methylnaphthalene	110	82	110	81	µg/kg	407.5	NA	0	163	None, absolute difference ≤ 2x Avg RL
2-Methylnaphthalene	140	82	130	81	µg/kg	407.5	NA	10	163	None, absolute difference ≤ 2x Avg RL
Naphthalene	130	82	130	81	µg/kg	407.5	NA	0	163	None, absolute difference ≤ 2x Avg RL
Phenanthrene	260	82	260	81	µg/kg	407.5	NA	0	163	None, absolute difference ≤ 2x Avg RL
Pyrene	420	82	340	81	µg/kg	407.5	NA	80	163	None, absolute difference ≤ 2x Avg RL

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

µg/kg - micrograms 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: 680-107310-1

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.

RECEIPT

The samples were received on 11/15/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.3 C.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH

Samples CV1061A-CS0-4" (680-107310-1), CV1061B-CS0-4" (680-107310-2), CV1063A-CS0-4" (680-107310-3), CV1063A-CSD0-4" (680-107310-4), CV1063B-CS0-4" (680-107310-5) and CV0971A0APa-CS0-4" (680-107310-6) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW846 Method 8270D. The samples were prepared on 11/17/2014 and analyzed on 11/19/2014.

Samples CV1061A-CS0-4" (680-107310-1)[10X], CV1061B-CS0-4" (680-107310-2)[10X], CV1063A-CS0-4" (680-107310-3)[10X], CV1063A-CSD0-4" (680-107310-4)[10X], CV1063B-CS0-4" (680-107310-5)[10X] and CV0971A0APa-CS0-4" (680-107310-6)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly. As such, surrogate were diluted out and are not reported. Also elevated reporting limits (RLs) are provided.

Benzo[k]fluoranthene, Fluoranthene and Pyrene recovered outside the recovery criteria low for the MS of sample CV0971A0APa-CS0-4"MS (680-107310-6) in batch 680-359503.

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

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

METALS (ICP)

Samples CV1061A-CS0-4" (680-107310-1), CV1061B-CS0-4" (680-107310-2), CV1063A-CS0-4" (680-107310-3), CV1063A-CSD0-4" (680-107310-4), CV1063B-CS0-4" (680-107310-5) and CV0971A0APa-CS0-4" (680-107310-6) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 11/17/2014 and analyzed on 11/20/2014.

Lead recovered outside the recovery criteria low for the MS/MSD of sample CV0971A0APa-CS0-4' (680-107310-6) in batch 680-359921. Aluminum failed the recovery criteria high.

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

PERCENT SOLIDS/MOISTURE

Samples CV1061A-CS0-4" (680-107310-1), CV1061B-CS0-4" (680-107310-2), CV1063A-CS0-4" (680-107310-3), CV1063A-CSD0-4" (680-107310-4), CV1063B-CS0-4" (680-107310-5) and CV0971A0APa-CS0-4" (680-107310-6) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 11/15/2014.

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

ATTACHMENT D

QUALIFIED SAMPLE RESULTS

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107310-1

SDG No.: 680-107310-1

Client Sample ID: CV1061A-CS0-4'' | Lab Sample ID: 680-107310-1

Matrix: Solid | Lab File ID: 2KK1921.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/13/2014 10:35

Extract. Method: 3546 | Date Extracted: 11/17/2014 12:45

Sample wt/vol: 29.96(g) | Date Analyzed: 11/19/2014 19:40

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

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

% Moisture: 15.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359503 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	79	U	79	39
208-96-8	Acenaphthylene	79	U	79	39
120-12-7	Anthracene	41	J	79	39
56-55-3	Benzo[a]anthracene	240		79	39
50-32-8	Benzo[a]pyrene	240		79	14
205-99-2	Benzo[b]fluoranthene	390		79	39
191-24-2	Benzo[g,h,i]perylene	230		79	39
207-08-9	Benzo[k]fluoranthene	170		79	24
218-01-9	Chrysene	390		79	39
53-70-3	Dibenz(a,h)anthracene	69	J	79	39
206-44-0	Fluoranthene	410		79	39
86-73-7	Fluorene	79	U	79	39
193-39-5	Indeno[1,2,3-cd]pyrene	170		79	39
90-12-0	1-Methylnaphthalene	120		79	37
91-57-6	2-Methylnaphthalene	110		79	39
91-20-3	Naphthalene	92		79	39
85-01-8	Phenanthrene	340		79	28
129-00-0	Pyrene	390		79	39

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.: 680-107310-1

SDG No.: 680-107310-1

Client Sample ID: CV1061B-CS0-4'' | Lab Sample ID: 680-107310-2

Matrix: Solid | Lab File ID: 2KK1922.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/13/2014 10:40

Extract. Method: 3546 | Date Extracted: 11/17/2014 12:45

Sample wt/vol: 30.03(g) | Date Analyzed: 11/19/2014 20:03

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

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

% Moisture: 14.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359503 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	78	U	78	38
208-96-8	Acenaphthylene	78	U	78	38
120-12-7	Anthracene	78	U	78	38
56-55-3	Benzo[a]anthracene	200		78	38
50-32-8	Benzo[a]pyrene	230		78	14
205-99-2	Benzo[b]fluoranthene	430		78	38
191-24-2	Benzo[g,h,i]perylene	210		78	38
207-08-9	Benzo[k]fluoranthene	130		78	23
218-01-9	Chrysene	320		78	38
53-70-3	Dibenz(a,h)anthracene	78		78	38
206-44-0	Fluoranthene	370		78	38
86-73-7	Fluorene	78	U	78	38
193-39-5	Indeno[1,2,3-cd]pyrene	180		78	38
90-12-0	1-Methylnaphthalene	55	J	78	36
91-57-6	2-Methylnaphthalene	65	J	78	38
91-20-3	Naphthalene	56	J	78	38
85-01-8	Phenanthrene	270		78	28
129-00-0	Pyrene	330		78	38

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.: 680-107310-1

SDG No.: 680-107310-1

Client Sample ID: CV1063A-CS0-4'' | Lab Sample ID: 680-107310-3

Matrix: Solid | Lab File ID: 2KK1923.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/13/2014 11:05

Extract. Method: 3546 | Date Extracted: 11/17/2014 12:45

Sample wt/vol: 30.00(g) | Date Analyzed: 11/19/2014 20:25

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

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

% Moisture: 18.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359503 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	82	U	82	40
208-96-8	Acenaphthylene	82	U	82	40
120-12-7	Anthracene	82	U	82	40
56-55-3	Benzo[a]anthracene	310		82	40
50-32-8	Benzo[a]pyrene	320		82	15
205-99-2	Benzo[b]fluoranthene	610		82	40
191-24-2	Benzo[g,h,i]perylene	280		82	40
207-08-9	Benzo[k]fluoranthene	180		82	24
218-01-9	Chrysene	440		82	40
53-70-3	Dibenz(a,h)anthracene	110		82	40
206-44-0	Fluoranthene	380		82	40
86-73-7	Fluorene	82	U	82	40
193-39-5	Indeno[1,2,3-cd]pyrene	220		82	40
90-12-0	1-Methylnaphthalene	110		82	38
91-57-6	2-Methylnaphthalene	140		82	40
91-20-3	Naphthalene	130		82	40
85-01-8	Phenanthrene	260		82	29
129-00-0	Pyrene	420		82	40

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.: 680-107310-1

SDG No.: 680-107310-1

Client Sample ID: CV1063A-CSD0-4'' | Lab Sample ID: 680-107310-4

Matrix: Solid | Lab File ID: 2KK1924.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/13/2014 11:10

Extract. Method: 3546 | Date Extracted: 11/17/2014 12:45

Sample wt/vol: 29.99(g) | Date Analyzed: 11/19/2014 20:48

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

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

% Moisture: 17.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359503 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	81	U	81	40
208-96-8	Acenaphthylene	81	U	81	40
120-12-7	Anthracene	81	U	81	40
56-55-3	Benzo[a]anthracene	270		81	40
50-32-8	Benzo[a]pyrene	280		81	15
205-99-2	Benzo[b]fluoranthene	520		81	40
191-24-2	Benzo[g,h,i]perylene	230		81	40
207-08-9	Benzo[k]fluoranthene	160		81	24
218-01-9	Chrysene	390		81	40
53-70-3	Dibenz(a,h)anthracene	85		81	40
206-44-0	Fluoranthene	380		81	40
86-73-7	Fluorene	81	U	81	40
193-39-5	Indeno[1,2,3-cd]pyrene	210		81	40
90-12-0	1-Methylnaphthalene	110		81	38
91-57-6	2-Methylnaphthalene	130		81	40
91-20-3	Naphthalene	130		81	40
85-01-8	Phenanthrene	260		81	29
129-00-0	Pyrene	340		81	40

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.: 680-107310-1

SDG No.: 680-107310-1

Client Sample ID: CV1063B-CS0-4'' | Lab Sample ID: 680-107310-5

Matrix: Solid | Lab File ID: 2KK1925.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/13/2014 11:15

Extract. Method: 3546 | Date Extracted: 11/17/2014 12:45

Sample wt/vol: 30.04(g) | Date Analyzed: 11/19/2014 21:11

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

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

% Moisture: 17.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359503 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	930		81	40
208-96-8	Acenaphthylene	81	U	81	40
120-12-7	Anthracene	1300		81	40
56-55-3	Benzo[a]anthracene	2800		81	40
50-32-8	Benzo[a]pyrene	2300		81	14
205-99-2	Benzo[b]fluoranthene	3100		81	40
191-24-2	Benzo[g,h,i]perylene	1400		81	40
207-08-9	Benzo[k]fluoranthene	1400		81	24
218-01-9	Chrysene	2900		81	40
53-70-3	Dibenz(a,h)anthracene	550		81	40
206-44-0	Fluoranthene	5100		81	40
86-73-7	Fluorene	710		81	40
193-39-5	Indeno[1,2,3-cd]pyrene	1400		81	40
90-12-0	1-Methylnaphthalene	910		81	37
91-57-6	2-Methylnaphthalene	970		81	40
91-20-3	Naphthalene	1200		81	40
85-01-8	Phenanthrene	6400		81	29
129-00-0	Pyrene	5000		81	40

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.: 680-107310-1

SDG No.: 680-107310-1

Client Sample ID: CV0971A0APa-CS0-4'' | Lab Sample ID: 680-107310-6

Matrix: Solid | Lab File ID: 2KK1920.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/13/2014 11:45

Extract. Method: 3546 | Date Extracted: 11/17/2014 12:45

Sample wt/vol: 30.01(g) | Date Analyzed: 11/19/2014 19:17

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

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

% Moisture: 15.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359503 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	79	U	79	39
208-96-8	Acenaphthylene	49	J	79	39
120-12-7	Anthracene	79		79	39
56-55-3	Benzo[a]anthracene	480		79	39
50-32-8	Benzo[a]pyrene	560		79	14
205-99-2	Benzo[b]fluoranthene	780		79	39
191-24-2	Benzo[g,h,i]perylene	490		79	39
207-08-9	Benzo[k]fluoranthene	340		79	24
218-01-9	Chrysene	660		79	39
53-70-3	Dibenz(a,h)anthracene	150		79	39
206-44-0	Fluoranthene	790		79	39
86-73-7	Fluorene	79	U	79	39
193-39-5	Indeno[1,2,3-cd]pyrene	450		79	39
90-12-0	1-Methylnaphthalene	72	J	79	37
91-57-6	2-Methylnaphthalene	96		79	39
91-20-3	Naphthalene	90		79	39
85-01-8	Phenanthrene	380		79	28
129-00-0	Pyrene	740		79	39

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)

ANALYTICAL REPORT

Job Number: 680-107310-1

SDG Number: 680-107310-1

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.
Bernard C Kirkland
Manager of Project Management
11/24/2014 1:45 PM

Designee for
Lisa M Harvey, Project Manager II
5102 LaRoche Avenue, Savannah, GA, 31404
(912)354-7858 e.3221
lisa.harvey@testamericainc.com
11/24/2014

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

Table of Contents

Cover Title Page 1

Data Summaries 4

Report Narrative 4

Sample Summary 5

Method Summary 6

Method / Analyst Summary 7

Data Qualifiers 8

QC Association Summary 9

Organic Sample Data 11

GC/MS Semi VOA 11

Method 8270D Low Level 11

Method 8270D Low Level QC Summary 12

Method 8270D Low Level Sample Data 20

Standards Data 141

Method 8270D Low Level ICAL Data 141

Method 8270D Low Level CCAL Data 166

Raw QC Data 170

Method 8270D Low Level Tune Data 170

Method 8270D Low Level Blank Data 178

Method 8270D Low Level LCS/LCSD Data 181

Method 8270D Low Level MS/MSD Data 185

Method 8270D Low Level Run Logs 193

Method 8270D Low Level Prep Data 194

Inorganic Sample Data 196

Metals Data 196

Met Cover Page 197

Table of Contents

Met Sample Data 198

Met QC Data 204

Met ICV/CCV 204

Met CRQL 206

Met Blanks 207

Met ICSA/ICSAB 210

Met MS/MSD/PDS 212

Met LCS/LCSD 215

Met Serial Dilution 216

Met MDL 217

Met IECF 219

Met Linear Ranges 221

Met Preparation Log 222

Met Analysis Run Log 223

Met Raw Data 229

Met Prep Data 489

Shipping and Receiving Documents 491

Client Chain of Custody 492

Sample Receipt Checklist 493

CASE NARRATIVE
Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-107310-1

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.

RECEIPT

The samples were received on 11/15/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.3 C.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH

Samples CV1061A-CS0-4" (680-107310-1), CV1061B-CS0-4" (680-107310-2), CV1063A-CS0-4" (680-107310-3), CV1063A-CSD0-4" (680-107310-4), CV1063B-CS0-4" (680-107310-5) and CV0971A0APa-CS0-4" (680-107310-6) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW846 Method 8270D. The samples were prepared on 11/17/2014 and analyzed on 11/19/2014.

Samples CV1061A-CS0-4" (680-107310-1)[10X], CV1061B-CS0-4" (680-107310-2)[10X], CV1063A-CS0-4" (680-107310-3)[10X], CV1063A-CSD0-4" (680-107310-4)[10X], CV1063B-CS0-4" (680-107310-5)[10X] and CV0971A0APa-CS0-4" (680-107310-6)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly. As such, surrogate were diluted out and are not reported. Also elevated reporting limits (RLs) are provided.

Benzo[k]fluoranthene, Fluoranthene and Pyrene recovered outside the recovery criteria low for the MS of sample CV0971A0APa-CS0-4"MS (680-107310-6) in batch 680-359503.

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

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

METALS (ICP)

Samples CV1061A-CS0-4" (680-107310-1), CV1061B-CS0-4" (680-107310-2), CV1063A-CS0-4" (680-107310-3), CV1063A-CSD0-4" (680-107310-4), CV1063B-CS0-4" (680-107310-5) and CV0971A0APa-CS0-4" (680-107310-6) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 11/17/2014 and analyzed on 11/20/2014.

Lead recovered outside the recovery criteria low for the MS/MSD of sample CV0971A0APa-CS0-4' (680-107310-6) in batch 680-359921. Aluminum failed the recovery criteria high.

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

PERCENT SOLIDS/MOISTURE

Samples CV1061A-CS0-4" (680-107310-1), CV1061B-CS0-4" (680-107310-2), CV1063A-CS0-4" (680-107310-3), CV1063A-CSD0-4" (680-107310-4), CV1063B-CS0-4" (680-107310-5) and CV0971A0APa-CS0-4" (680-107310-6) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 11/15/2014.

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

SAMPLE SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-107310-1
Sdg Number: 680-107310-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
680-107310-1	CV1061A-CS0-4"	Solid	11/13/2014 1035	11/15/2014 0930
680-107310-2	CV1061B-CS0-4"	Solid	11/13/2014 1040	11/15/2014 0930
680-107310-3	CV1063A-CS0-4"	Solid	11/13/2014 1105	11/15/2014 0930
680-107310-4	CV1063A-CSD0-4"	Solid	11/13/2014 1110	11/15/2014 0930
680-107310-5	CV1063B-CS0-4"	Solid	11/13/2014 1115	11/15/2014 0930
680-107310-6	CV0971A0APa-CS0-4"	Solid	11/13/2014 1145	11/15/2014 0930
680-107310-6MS	CV0971A0APa-CS0-4"	Solid	11/13/2014 1145	11/15/2014 0930
680-107310-6MSD	CV0971AOAPa-CS0-4"	Solid	11/13/2014 1145	11/15/2014 0930

METHOD SUMMARY

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-107310-1
Sdg Number: 680-107310-1

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: 680-107310-1
Sdg Number: 680-107310-1

Method	Analyst	Analyst ID
SW846 8270D_LL_PAH	Webb, Kevin M	KMW
SW846 6010C	Bland, Brian C	BCB
EPA Moisture	Longworth, Hazel M	HML

DATA REPORTING QUALIFIERS

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-107310-1
Sdg Number: 680-107310-1

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
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	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.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-107310-1
Sdg Number: 680-107310-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 680-359074					
LCS 680-359074/12-A	Lab Control Sample	T	Solid	3546	
MB 680-359074/11-A	Method Blank	T	Solid	3546	
680-107310-1	CV1061A-CS0-4"	T	Solid	3546	
680-107310-2	CV1061B-CS0-4"	T	Solid	3546	
680-107310-3	CV1063A-CS0-4"	T	Solid	3546	
680-107310-4	CV1063A-CSD0-4"	T	Solid	3546	
680-107310-5	CV1063B-CS0-4"	T	Solid	3546	
680-107310-6	CV0971A0APa-CS0-4"	T	Solid	3546	
680-107310-6MS	Matrix Spike	T	Solid	3546	
680-107310-6MSD	Matrix Spike Duplicate	T	Solid	3546	
Analysis Batch:680-359503					
LCS 680-359074/12-A	Lab Control Sample	T	Solid	8270D_LL_PAH	680-359074
MB 680-359074/11-A	Method Blank	T	Solid	8270D_LL_PAH	680-359074
680-107310-1	CV1061A-CS0-4"	T	Solid	8270D_LL_PAH	680-359074
680-107310-2	CV1061B-CS0-4"	T	Solid	8270D_LL_PAH	680-359074
680-107310-3	CV1063A-CS0-4"	T	Solid	8270D_LL_PAH	680-359074
680-107310-4	CV1063A-CSD0-4"	T	Solid	8270D_LL_PAH	680-359074
680-107310-5	CV1063B-CS0-4"	T	Solid	8270D_LL_PAH	680-359074
680-107310-6	CV0971A0APa-CS0-4"	T	Solid	8270D_LL_PAH	680-359074
680-107310-6MS	Matrix Spike	T	Solid	8270D_LL_PAH	680-359074
680-107310-6MSD	Matrix Spike Duplicate	T	Solid	8270D_LL_PAH	680-359074

Report Basis
T = Total

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-107310-1
Sdg Number: 680-107310-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 680-359032					
LCS 680-359032/2-A	Lab Control Sample	T	Solid	3050B	
MB 680-359032/1-A	Method Blank	T	Solid	3050B	
680-107310-1	CV1061A-CS0-4"	T	Solid	3050B	
680-107310-2	CV1061B-CS0-4"	T	Solid	3050B	
680-107310-3	CV1063A-CS0-4"	T	Solid	3050B	
680-107310-4	CV1063A-CSD0-4"	T	Solid	3050B	
680-107310-5	CV1063B-CS0-4"	T	Solid	3050B	
680-107310-6	CV0971A0APa-CS0-4"	T	Solid	3050B	
680-107310-6MS	Matrix Spike	T	Solid	3050B	
680-107310-6MSD	Matrix Spike Duplicate	T	Solid	3050B	
Analysis Batch:680-359921					
LCS 680-359032/2-A	Lab Control Sample	T	Solid	6010C	680-359032
MB 680-359032/1-A	Method Blank	T	Solid	6010C	680-359032
680-107310-1	CV1061A-CS0-4"	T	Solid	6010C	680-359032
680-107310-2	CV1061B-CS0-4"	T	Solid	6010C	680-359032
680-107310-3	CV1063A-CS0-4"	T	Solid	6010C	680-359032
680-107310-4	CV1063A-CSD0-4"	T	Solid	6010C	680-359032
680-107310-5	CV1063B-CS0-4"	T	Solid	6010C	680-359032
680-107310-6	CV0971A0APa-CS0-4"	T	Solid	6010C	680-359032
680-107310-6MS	Matrix Spike	T	Solid	6010C	680-359032
680-107310-6MSD	Matrix Spike Duplicate	T	Solid	6010C	680-359032

Report Basis
T = Total

General Chemistry

Analysis Batch:680-358925					
680-107310-1	CV1061A-CS0-4"	T	Solid	Moisture	
680-107310-2	CV1061B-CS0-4"	T	Solid	Moisture	
680-107310-3	CV1063A-CS0-4"	T	Solid	Moisture	
680-107310-4	CV1063A-CSD0-4"	T	Solid	Moisture	
680-107310-5	CV1063B-CS0-4"	T	Solid	Moisture	
680-107310-6	CV0971A0APa-CS0-4"	T	Solid	Moisture	
680-107310-6MS	Matrix Spike	T	Solid	Moisture	
680-107310-6MSD	Matrix Spike Duplicate	T	Solid	Moisture	

Report Basis
T = Total

Method 8270D Low Level

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

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: TestAmerica Savannah Job No.: 680-107310-1

SDG No.: 680-107310-1

Matrix: Solid Level: Low

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

Client Sample ID	Lab Sample ID	OTPH	#
CV1061A-CS0-4''	680-107310-1	0	D
CV1061B-CS0-4''	680-107310-2	0	D
CV1063A-CS0-4''	680-107310-3	0	D
CV1063A-CSD0-4''	680-107310-4	0	D
CV1063B-CS0-4''	680-107310-5	0	D
CV0971A0APa-CS0-4''	680-107310-6	0	D
	MB 680-359074/11-A	87	
	LCS 680-359074/12-A	65	
CV0971A0APa-CS0-4'' MS	680-107310-6 MS	0	D
CV0971AOAPa-CS0-4'' MSD	680-107310-6 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.: 680-107310-1

SDG No.: 680-107310-1

Matrix: Solid Level: Low Lab File ID: 2KK1917.D

Lab ID: LCS 680-359074/12-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Acenaphthene	333	250	75	33-130	
Acenaphthylene	333	220	66	37-131	
Anthracene	333	254	76	42-146	
Benzo[a]anthracene	333	272	82	39-157	
Benzo[a]pyrene	333	293	88	41-158	
Benzo[b]fluoranthene	333	287	86	35-152	
Benzo[g,h,i]perylene	333	335	100	32-150	
Benzo[k]fluoranthene	333	300	90	38-148	
Chrysene	333	270	81	38-147	
Dibenz(a,h)anthracene	333	346	104	32-155	
Fluoranthene	333	266	80	36-147	
Fluorene	333	238	72	36-138	
Indeno[1,2,3-cd]pyrene	333	320	96	35-148	
1-Methylnaphthalene	333	257	77	36-130	
2-Methylnaphthalene	333	249	75	42-130	
Naphthalene	333	233	70	33-130	
Phenanthrene	333	277	83	40-135	
Pyrene	333	236	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.: 680-107310-1

SDG No.: 680-107310-1

Matrix: Solid Level: Low Lab File ID: 2KK1918.D

Lab ID: 680-107310-6 MS Client ID: CV0971A0APa-CS0-4'' MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
Acenaphthene	395	79 U	257	65	33-130	
Acenaphthylene	395	49 J	255	52	37-131	
Anthracene	395	79	288	53	42-146	
Benzo[a]anthracene	395	480	653	44	39-157	
Benzo[a]pyrene	395	560	730	43	41-158	
Benzo[b]fluoranthene	395	780	974	49	35-152	
Benzo[g,h,i]perylene	395	490	718	58	32-150	
Benzo[k]fluoranthene	395	340	469	33	38-148	F1
Chrysene	395	660	852	47	38-147	
Dibenz(a,h)anthracene	395	150	482	83	32-155	
Fluoranthene	395	790	904	28	36-147	F1
Fluorene	395	79 U	221	56	36-138	
Indeno[1,2,3-cd]pyrene	395	450	846	100	35-148	
1-Methylnaphthalene	395	72 J	331	66	36-130	
2-Methylnaphthalene	395	96	340	62	42-130	
Naphthalene	395	90	323	59	33-130	
Phenanthrene	395	380	579	50	40-135	
Pyrene	395	740	827	21	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.: 680-107310-1

SDG No.: 680-107310-1

Matrix: Solid Level: Low Lab File ID: 2KK1919.D

Lab ID: 680-107310-6 MSD Client ID: CV0971AOAPa-CS0-4'' MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acenaphthene	394	282	72	9	50	33-130	
Acenaphthylene	394	318	68	22	50	37-131	
Anthracene	394	346	68	19	50	42-146	
Benzo[a]anthracene	394	980	127	40	50	39-157	
Benzo[a]pyrene	394	1030	120	34	50	41-158	
Benzo[b]fluoranthene	394	1290	130	28	50	35-152	
Benzo[g,h,i]perylene	394	894	103	22	50	32-150	
Benzo[k]fluoranthene	394	718	97	42	50	38-148	
Chrysene	394	1090	107	24	50	38-147	
Dibenz(a,h)anthracene	394	524	94	8	50	32-155	
Fluoranthene	394	1130	85	22	50	36-147	
Fluorene	394	270	69	20	50	36-138	
Indeno[1,2,3-cd]pyrene	394	844	100	0	50	35-148	
1-Methylnaphthalene	394	346	70	4	50	36-130	
2-Methylnaphthalene	394	361	67	6	50	42-130	
Naphthalene	394	349	66	8	50	33-130	
Phenanthrene	394	689	78	17	50	40-135	
Pyrene	394	1150	102	32	50	38-145	

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.: 680-107310-1

SDG No.: 680-107310-1

Lab File ID: 2KK1916.D Lab Sample ID: MB 680-359074/11-A

Matrix: Solid Date Extracted: 11/17/2014 12:45

Instrument ID: CMSK Date Analyzed: 11/19/2014 17:46

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 680-359074/12-A	2KK1917.D	11/19/2014 18:09
CV0971A0APa-CS0-4'' MS	680-107310-6 MS	2KK1918.D	11/19/2014 18:32
CV0971AOAPa-CS0-4'' MSD	680-107310-6 MSD	2KK1919.D	11/19/2014 18:55
CV0971A0APa-CS0-4''	680-107310-6	2KK1920.D	11/19/2014 19:17
CV1061A-CS0-4''	680-107310-1	2KK1921.D	11/19/2014 19:40
CV1061B-CS0-4''	680-107310-2	2KK1922.D	11/19/2014 20:03
CV1063A-CS0-4''	680-107310-3	2KK1923.D	11/19/2014 20:25
CV1063A-CSD0-4''	680-107310-4	2KK1924.D	11/19/2014 20:48
CV1063B-CS0-4''	680-107310-5	2KK1925.D	11/19/2014 21:11

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

Lab Name: TestAmerica Savannah Job No.: 680-107310-1

SDG No.: 680-107310-1

Lab File ID: 2KK1901.D DFTPP Injection Date: 11/19/2014

Instrument ID: CMSK DFTPP Injection Time: 12:15

Analysis Batch No.: 359503

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	10.0 - 80.0 % of mass 442	54.7	
68	Less than 2.0 % of mass 69	0.1	(0.2)1
69	Mass 69 relative abundance	43.7	
70	Less than 2.0 % of mass 69	0.3	(0.7)1
127	10.0 - 80.0 % of mass 442	50.2	
197	Less than 2.0 % of mass 198	0.8	(1.0)2
198	Greater than 50.0 % of mass 442	79.7	
199	5.0 - 9.0 % of mass 198	5.3	(6.7)2
275	10.0 - 60.0 % of mass 442	21.6	
365	Greater than 1.0 % of mass 442	4.3	
441	Present but less than mass 443	16.4	
442	Base Peak, 100% relative abundance	100.0	
443	15.0 - 24.0 % of mass 442	20.6	

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 680-359503/2	2KK1902.D	11/19/2014	12:29
	IC 680-359503/3	2KK1903.D	11/19/2014	12:51
	IC 680-359503/4	2KK1904.D	11/19/2014	13:14
	IC 680-359503/5	2KK1905.D	11/19/2014	13:36
	IC 680-359503/6	2KK1906.D	11/19/2014	13:59
	IC 680-359503/7	2KK1907.D	11/19/2014	14:22
	IC 680-359503/8	2KK1908.D	11/19/2014	14:45
	ICV 680-359503/9	2KK1909.D	11/19/2014	15:07
	MB 680-359074/11-A	2KK1916.D	11/19/2014	17:46
	LCS 680-359074/12-A	2KK1917.D	11/19/2014	18:09
CV0971A0APa-CS0-4'' MS	680-107310-6 MS	2KK1918.D	11/19/2014	18:32
CV0971AOAPa-CS0-4'' MSD	680-107310-6 MSD	2KK1919.D	11/19/2014	18:55
CV0971A0APa-CS0-4''	680-107310-6	2KK1920.D	11/19/2014	19:17
CV1061A-CS0-4''	680-107310-1	2KK1921.D	11/19/2014	19:40
CV1061B-CS0-4''	680-107310-2	2KK1922.D	11/19/2014	20:03
CV1063A-CS0-4''	680-107310-3	2KK1923.D	11/19/2014	20:25
CV1063A-CSD0-4''	680-107310-4	2KK1924.D	11/19/2014	20:48
CV1063B-CS0-4''	680-107310-5	2KK1925.D	11/19/2014	21:11

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

Lab Name: TestAmerica Savannah Job No.: 680-107310-1

SDG No.: 680-107310-1

Sample No.: ICIS 680-359503/2 Date Analyzed: 11/19/2014 12:29

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

Lab File ID (Standard): 2KK1902.D Heated Purge: (Y/N) N

Calibration ID: 35824

		NPT		ANT		PHN	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		751580	3.11	404374	4.81	646042	6.36
UPPER LIMIT		1503160	3.61	808748	5.31	1292084	6.86
LOWER LIMIT		375790	2.61	202187	4.31	323021	5.86
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 680-359503/9		679367	3.11	348565	4.81	536799	6.36
MB 680-359074/11-A		727200	3.11	384021	4.81	616159	6.36
LCS 680-359074/12-A		764415	3.11	412921	4.81	674980	6.37
680-107310-6 MS	CV0971A0APa-CS0-4'' MS	622433	3.11	332798	4.81	530914	6.36
680-107310-6 MSD	CV0971AOAPa-CS0-4'' MSD	679194	3.11	366775	4.81	596548	6.37
680-107310-6	CV0971A0APa-CS0-4''	738018	3.11	394113	4.81	640358	6.37
680-107310-1	CV1061A-CS0-4''	732655	3.12	398724	4.81	642781	6.37
680-107310-2	CV1061B-CS0-4''	726014	3.12	399439	4.81	628354	6.37
680-107310-3	CV1063A-CS0-4''	785039	3.12	429521	4.81	693794	6.37
680-107310-4	CV1063A-CSD0-4''	708116	3.12	399016	4.81	652621	6.37
680-107310-5	CV1063B-CS0-4''	757373	3.12	416959	4.81	693646	6.38

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.: 680-107310-1

SDG No.: 680-107310-1

Sample No.: ICIS 680-359503/2 Date Analyzed: 11/19/2014 12:29

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

Lab File ID (Standard): 2KK1902.D Heated Purge: (Y/N) N

Calibration ID: 35824

		CRY		PRY			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		658322	9.20	479342	10.52		
UPPER LIMIT		1316644	9.70	958684	11.02		
LOWER LIMIT		329161	8.70	239671	10.02		
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 680-359503/9		492124	9.20	336254	10.52		
MB 680-359074/11-A		522751	9.19	396436	10.52		
LCS 680-359074/12-A		743273	9.20	519296	10.52		
680-107310-6 MS	CV0971A0APa-CS0-4'' MS	523615	9.20	480917	10.52		
680-107310-6 MSD	CV0971AOAPa-CS0-4'' MSD	548896	9.20	410312	10.52		
680-107310-6	CV0971A0APa-CS0-4''	563570	9.20	439837	10.52		
680-107310-1	CV1061A-CS0-4''	544517	9.20	411729	10.52		
680-107310-2	CV1061B-CS0-4''	558997	9.20	410393	10.53		
680-107310-3	CV1063A-CS0-4''	509836	9.20	341908	10.53		
680-107310-4	CV1063A-CSD0-4''	589749	9.20	465297	10.53		
680-107310-5	CV1063B-CS0-4''	614444	9.21	451540	10.54		

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.: 680-107310-1

SDG No.: 680-107310-1

Client Sample ID: CV1061A-CS0-4'' | Lab Sample ID: 680-107310-1

Matrix: Solid | Lab File ID: 2KK1921.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/13/2014 10:35

Extract. Method: 3546 | Date Extracted: 11/17/2014 12:45

Sample wt/vol: 29.96(g) | Date Analyzed: 11/19/2014 19:40

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

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

% Moisture: 15.0 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359503 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	79	U	79	39
208-96-8	Acenaphthylene	79	U	79	39
120-12-7	Anthracene	41	J	79	39
56-55-3	Benzo[a]anthracene	240		79	39
50-32-8	Benzo[a]pyrene	240		79	14
205-99-2	Benzo[b]fluoranthene	390		79	39
191-24-2	Benzo[g,h,i]perylene	230		79	39
207-08-9	Benzo[k]fluoranthene	170		79	24
218-01-9	Chrysene	390		79	39
53-70-3	Dibenz(a,h)anthracene	69	J	79	39
206-44-0	Fluoranthene	410		79	39
86-73-7	Fluorene	79	U	79	39
193-39-5	Indeno[1,2,3-cd]pyrene	170		79	39
90-12-0	1-Methylnaphthalene	120		79	37
91-57-6	2-Methylnaphthalene	110		79	39
91-20-3	Naphthalene	92		79	39
85-01-8	Phenanthrene	340		79	28
129-00-0	Pyrene	390		79	39

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\CMSK\20141119-14922.b\2KK1921.D
Lims ID: 680-107310-A-1-A Lab Sample ID: 680-107310-1
Client ID: CV1061A-CS0-4"
Sample Type: Client
Inject. Date: 19-Nov-2014 19:40:30 ALS Bottle#: 21 Worklist Smp#: 21
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 680-107310-A-1-A 1:10
Misc. Info.: 680-0014922-021
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:35 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 20-Nov-2014 08:19:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.120	3.114	0.006	100	732655	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	93	398724	2.00	
* 3 Phenanthrene-d10	188	6.369	6.363	0.006	98	642781	2.00	
* 4 Chrysene-d12	240	9.201	9.196	0.005	99	544517	2.00	
* 5 Perylene-d12	264	10.523	10.518	0.005	99	411729	2.00	
7 Naphthalene	128	3.138	3.138	0.000	98	95798	0.2332	
9 2-Methylnaphthalene	142	3.778	3.778	0.000	86	73065	0.2921	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	92	71023	0.3119	
11 Acenaphthylene	152	4.659	4.654	0.005	97	32272	0.0765	
12 Acenaphthene	153	4.841	4.842	-0.001	93	13749	0.0549	
15 Phenanthrene	178	6.393	6.393	0.000	97	332169	0.8549	
16 Anthracene	178	6.446	6.446	0.000	96	41091	0.1040	
17 Fluoranthene	202	7.679	7.674	0.005	98	430239	1.05	
18 Pyrene	202	7.909	7.909	0.000	96	382062	1.00	
19 Benzo[a]anthracene	228	9.189	9.190	-0.001	99	189736	0.6241	
20 Chrysene	228	9.225	9.225	0.000	99	281191	0.9840	
21 Benzo[b]fluoranthene	252	10.206	10.200	0.006	98	263746	1.00	M
22 Benzo[k]fluoranthene	252	10.218	10.224	-0.006	98	117731	0.4310	M
23 Benzo[a]pyrene	252	10.476	10.471	0.006	96	134284	0.6072	
24 Indeno[1,2,3-cd]pyrene	276	11.399	11.399	0.000	99	86283	0.4407	
25 Dibenz(a,h)anthracene	278	11.422	11.422	0.000	95	26678	0.1757	
26 Benzo[g,h,i]perylene	276	11.640	11.634	0.006	97	100871	0.5832	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

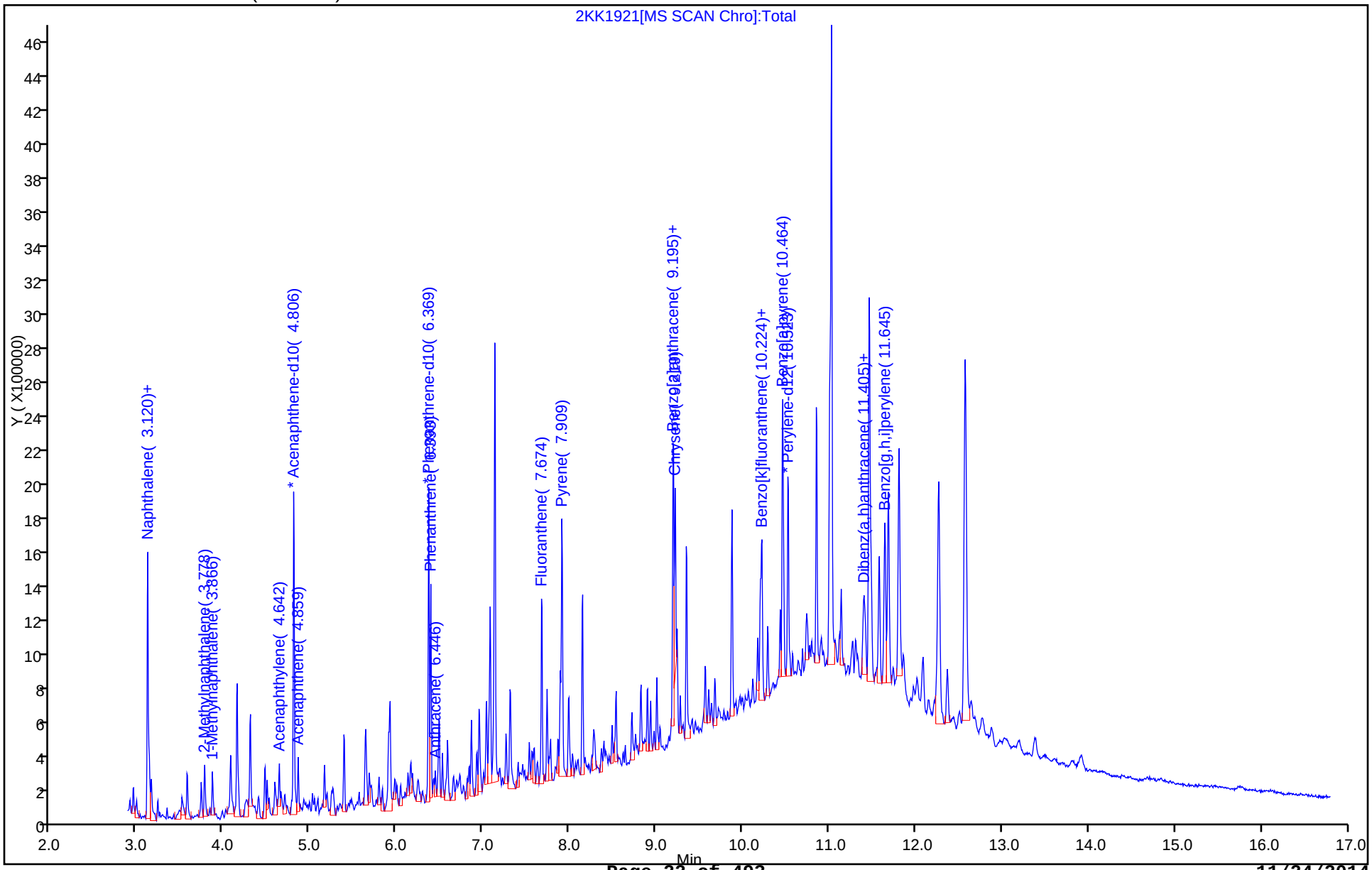
SM-LLISTD_00114 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 20-Nov-2014 10:09:41 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1921.D				
Injection Date:	19-Nov-2014 19:40:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-107310-A-1-A	Lab Sample ID:	680-107310-1	Worklist Smp#:	21
Client ID:	CV1061A-CS0-4"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	21
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

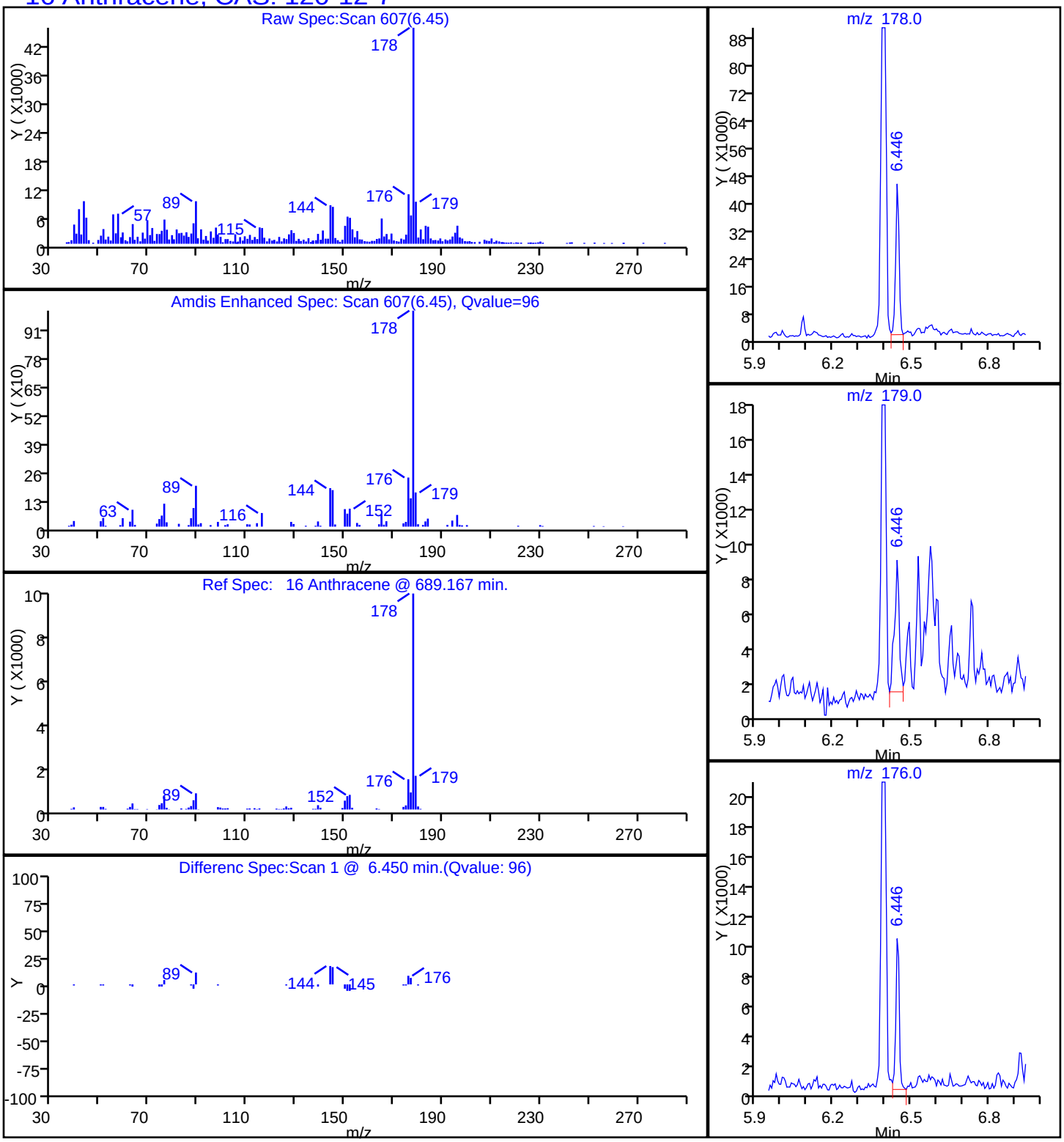


Report Date: 20-Nov-2014 10:09:41 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1921.D				
Injection Date:	19-Nov-2014 19:40:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-1-A	Lab Sample ID:	680-107310-1		
Client ID:	CV1061A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

16 Anthracene, CAS: 120-12-7

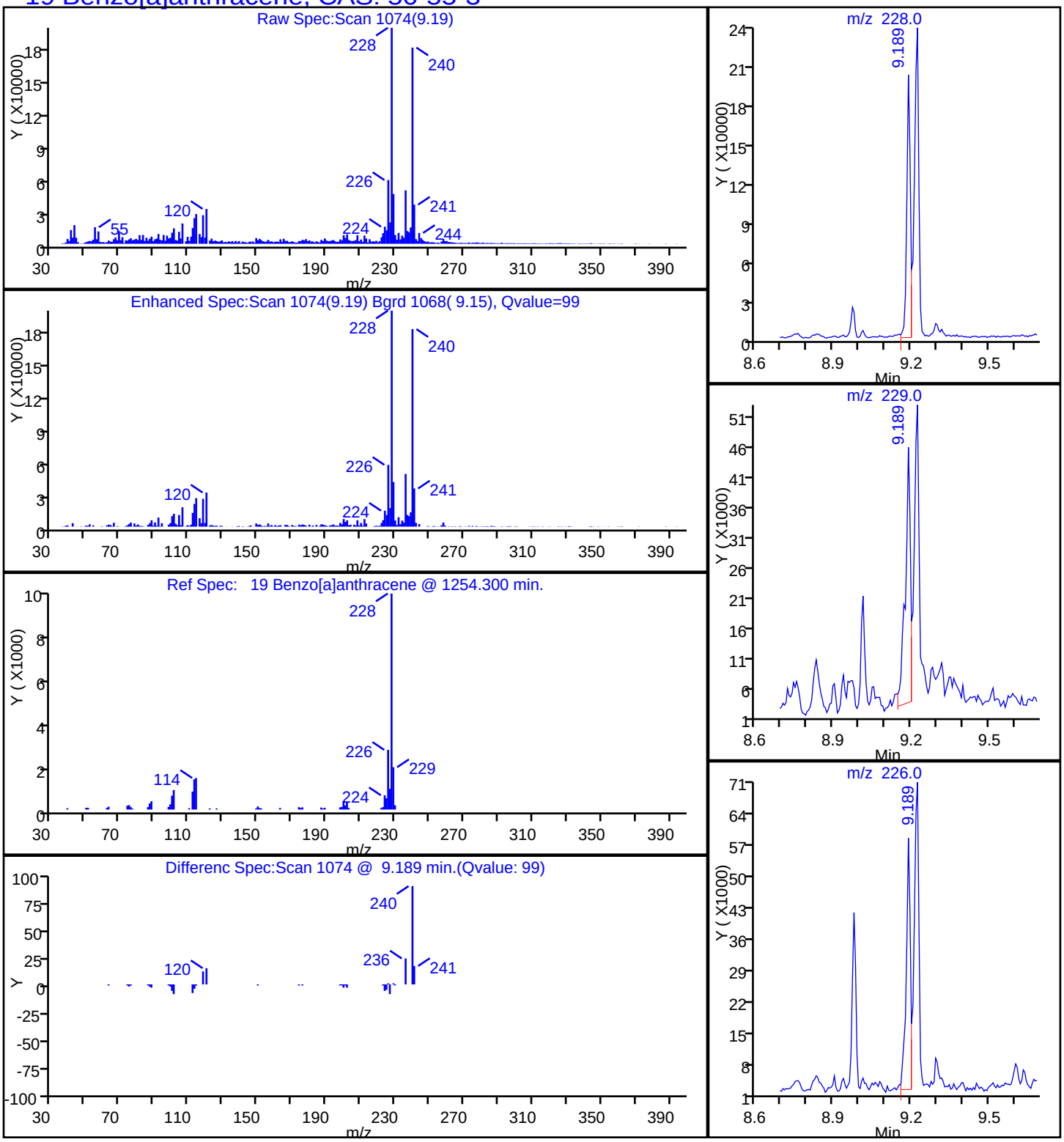


Report Date: 20-Nov-2014 10:09:41 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1921.D				
Injection Date:	19-Nov-2014 19:40:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-1-A	Lab Sample ID:	680-107310-1		
Client ID:	CV1061A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

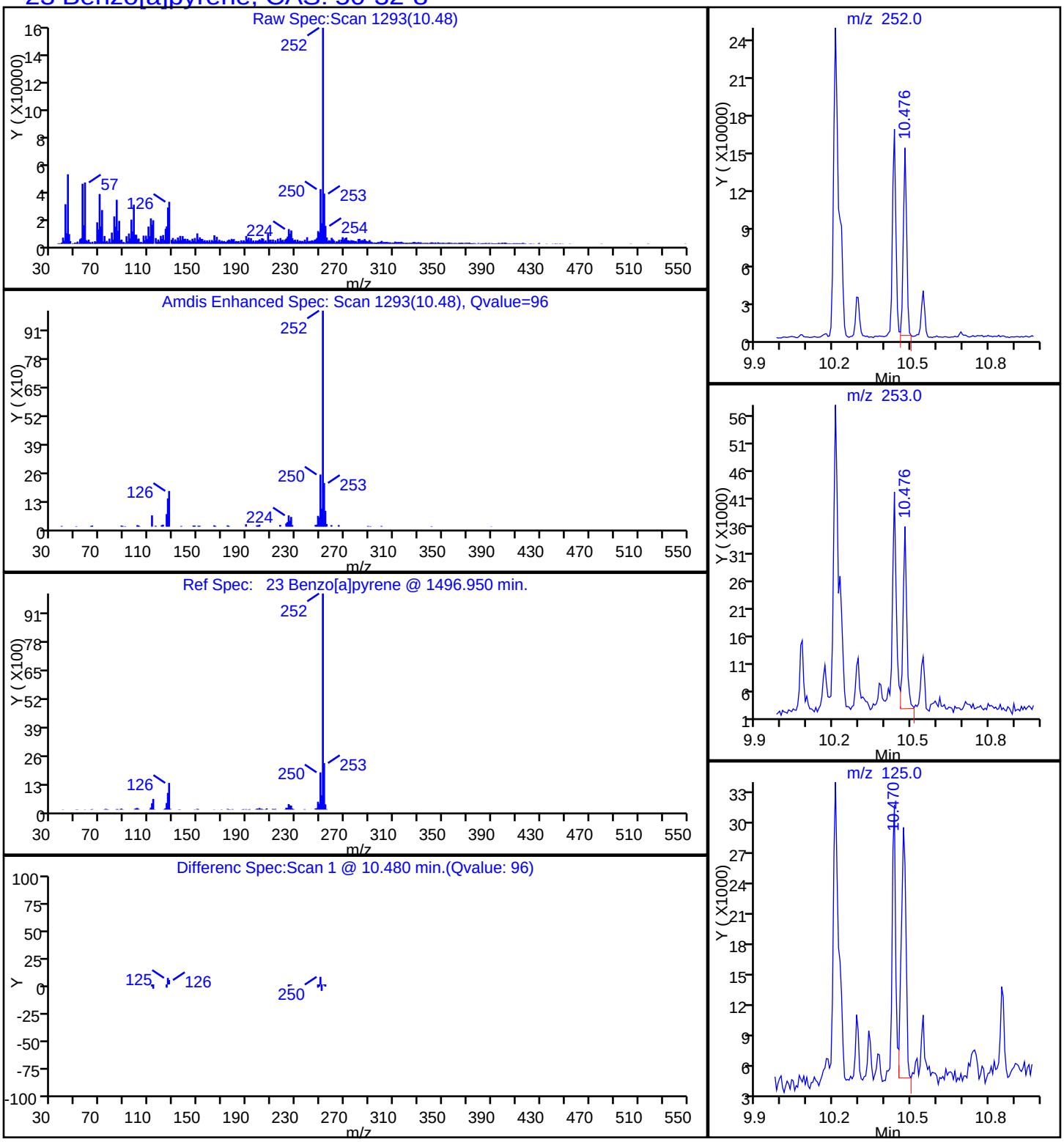


Report Date: 20-Nov-2014 10:09:42 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1921.D				
Injection Date:	19-Nov-2014 19:40:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-1-A	Lab Sample ID:	680-107310-1		
Client ID:	CV1061A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

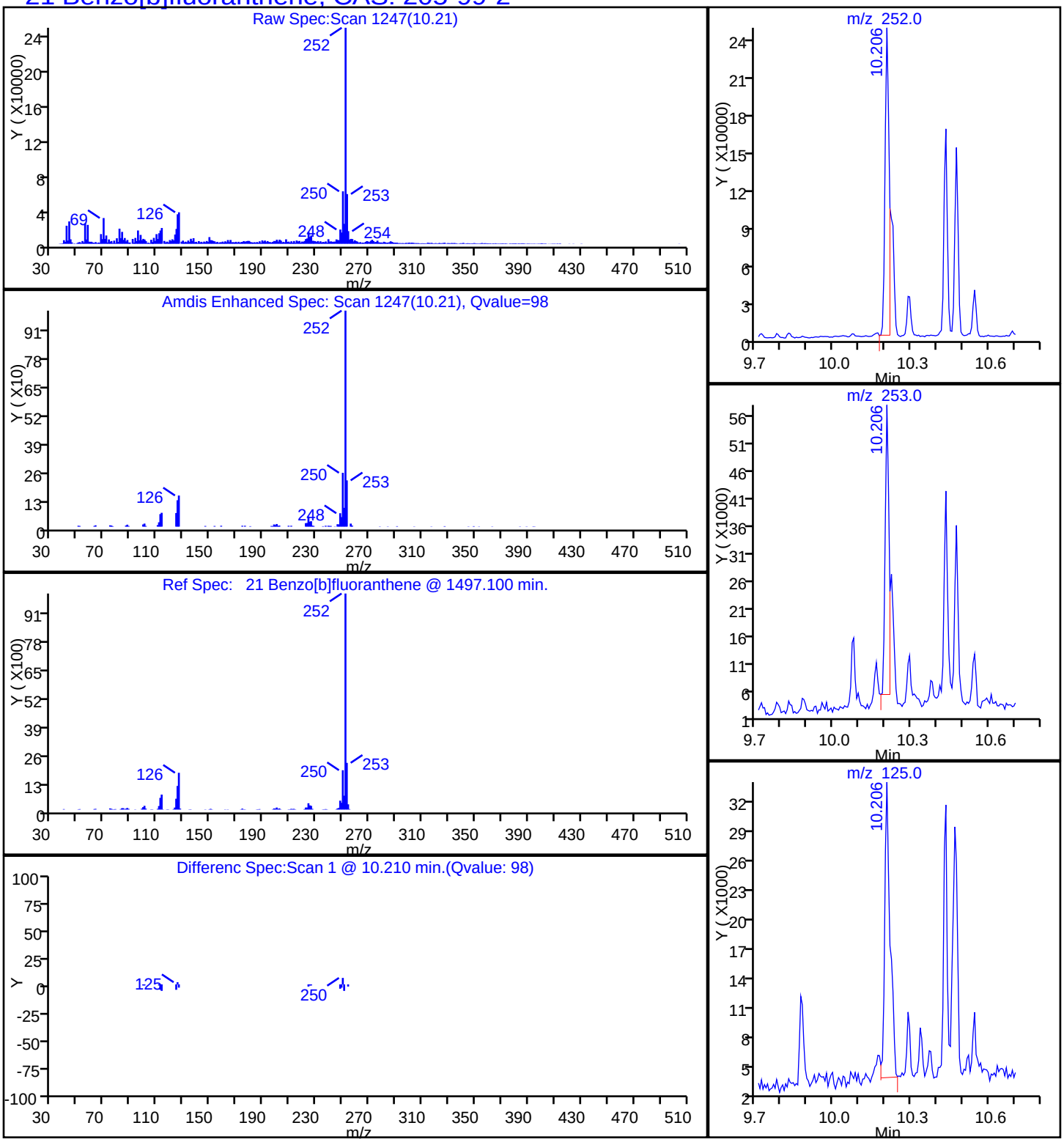


Report Date: 20-Nov-2014 10:09:41 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1921.D				
Injection Date:	19-Nov-2014 19:40:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-1-A	Lab Sample ID:	680-107310-1		
Client ID:	CV1061A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

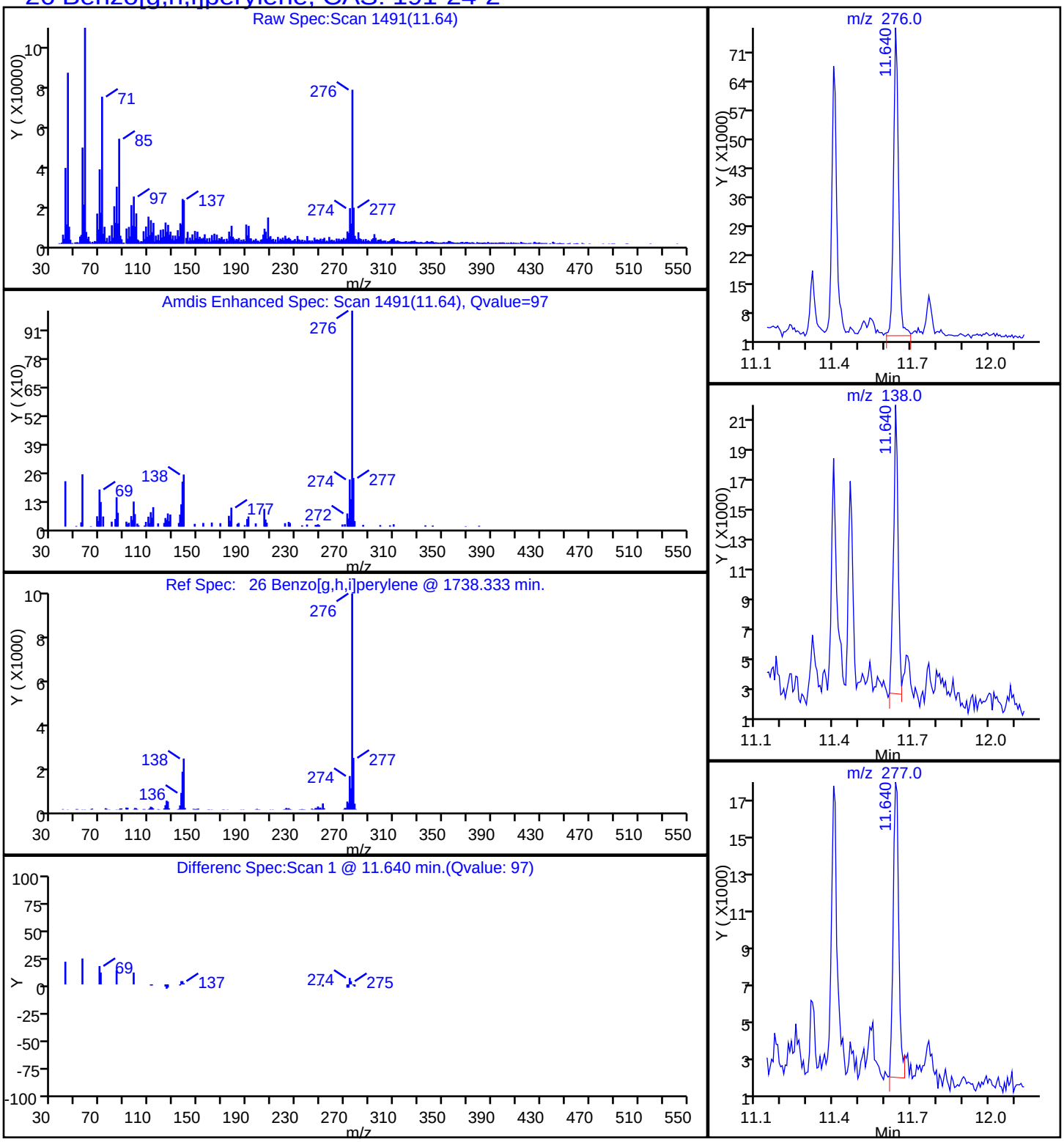


Report Date: 20-Nov-2014 10:09:42 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1921.D				
Injection Date:	19-Nov-2014 19:40:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-1-A	Lab Sample ID:	680-107310-1		
Client ID:	CV1061A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

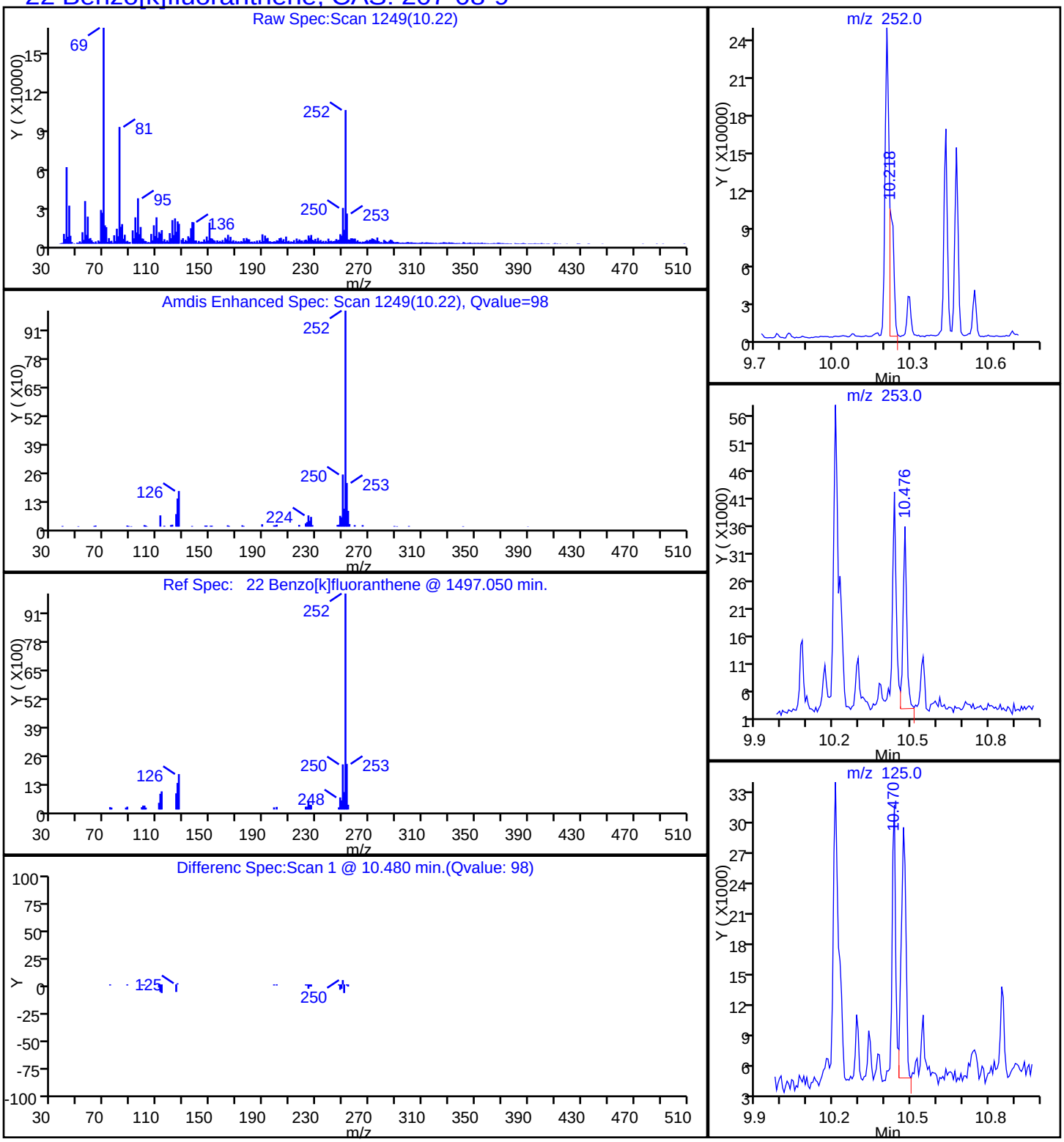


Report Date: 20-Nov-2014 10:09:41 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1921.D				
Injection Date:	19-Nov-2014 19:40:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-1-A	Lab Sample ID:	680-107310-1		
Client ID:	CV1061A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

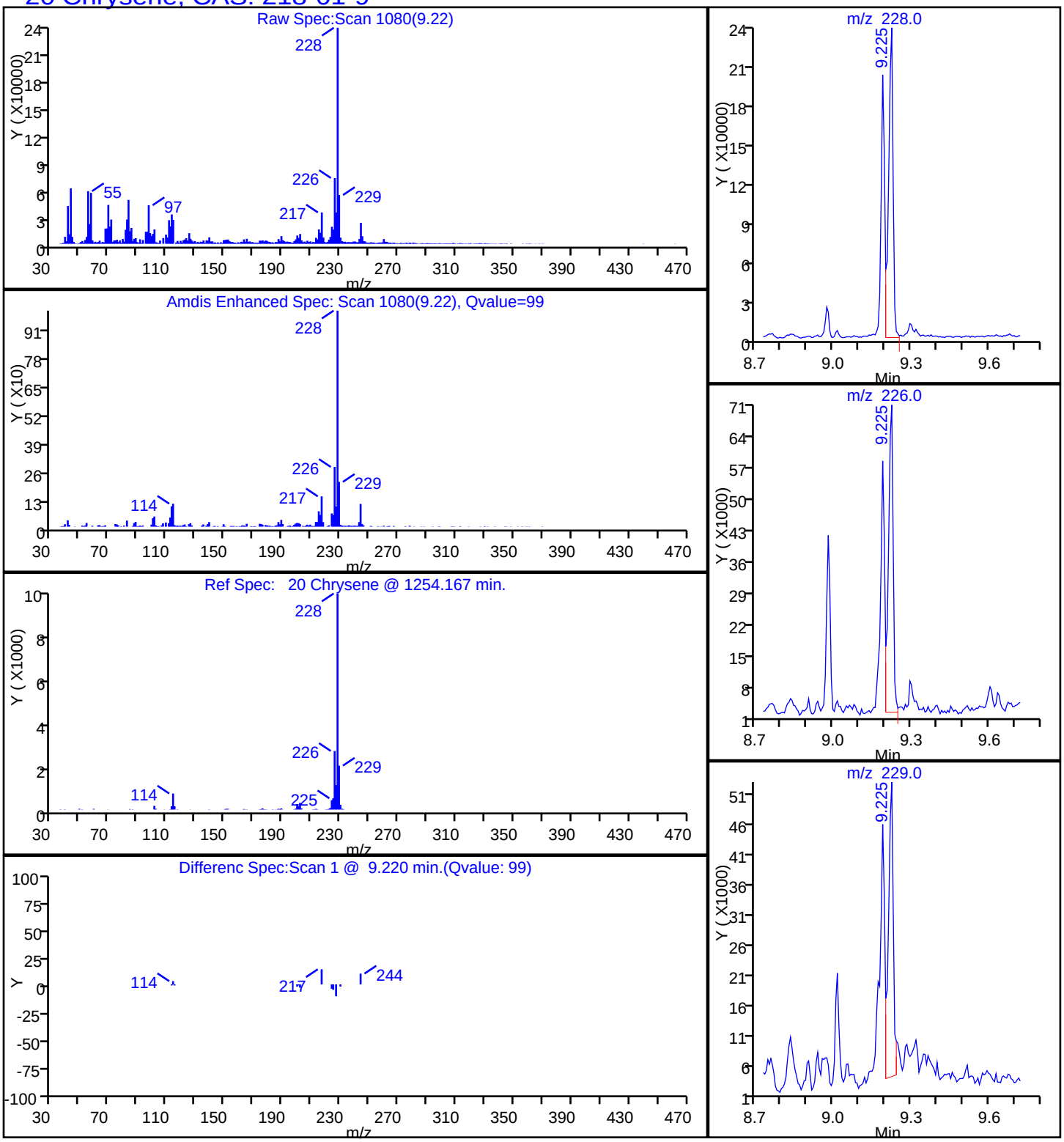


Report Date: 20-Nov-2014 10:09:41 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1921.D				
Injection Date:	19-Nov-2014 19:40:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-1-A	Lab Sample ID:	680-107310-1		
Client ID:	CV1061A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Chrysene, CAS: 218-01-9

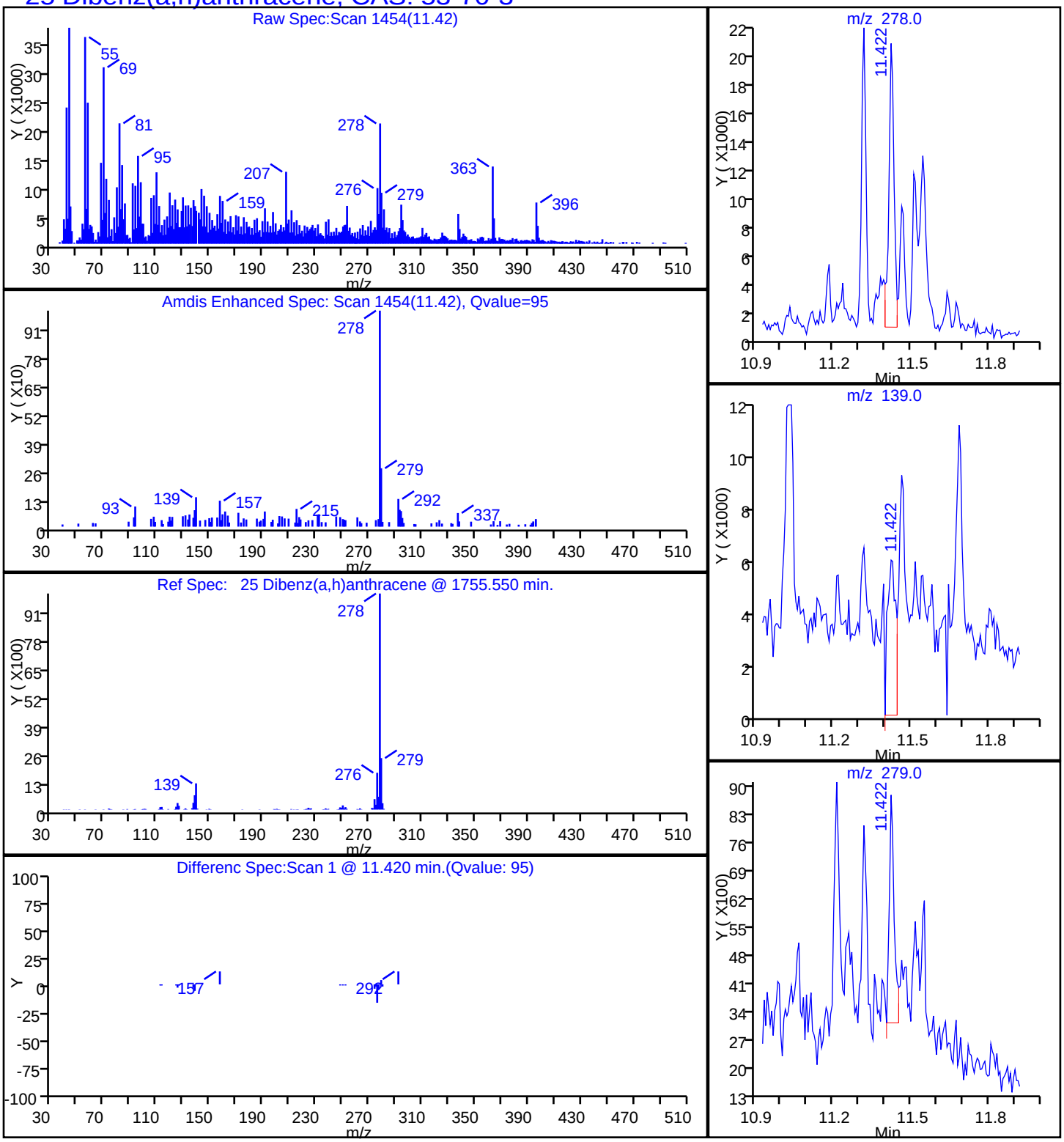


Report Date: 20-Nov-2014 10:09:42 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1921.D				
Injection Date:	19-Nov-2014 19:40:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-1-A	Lab Sample ID:	680-107310-1		
Client ID:	CV1061A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

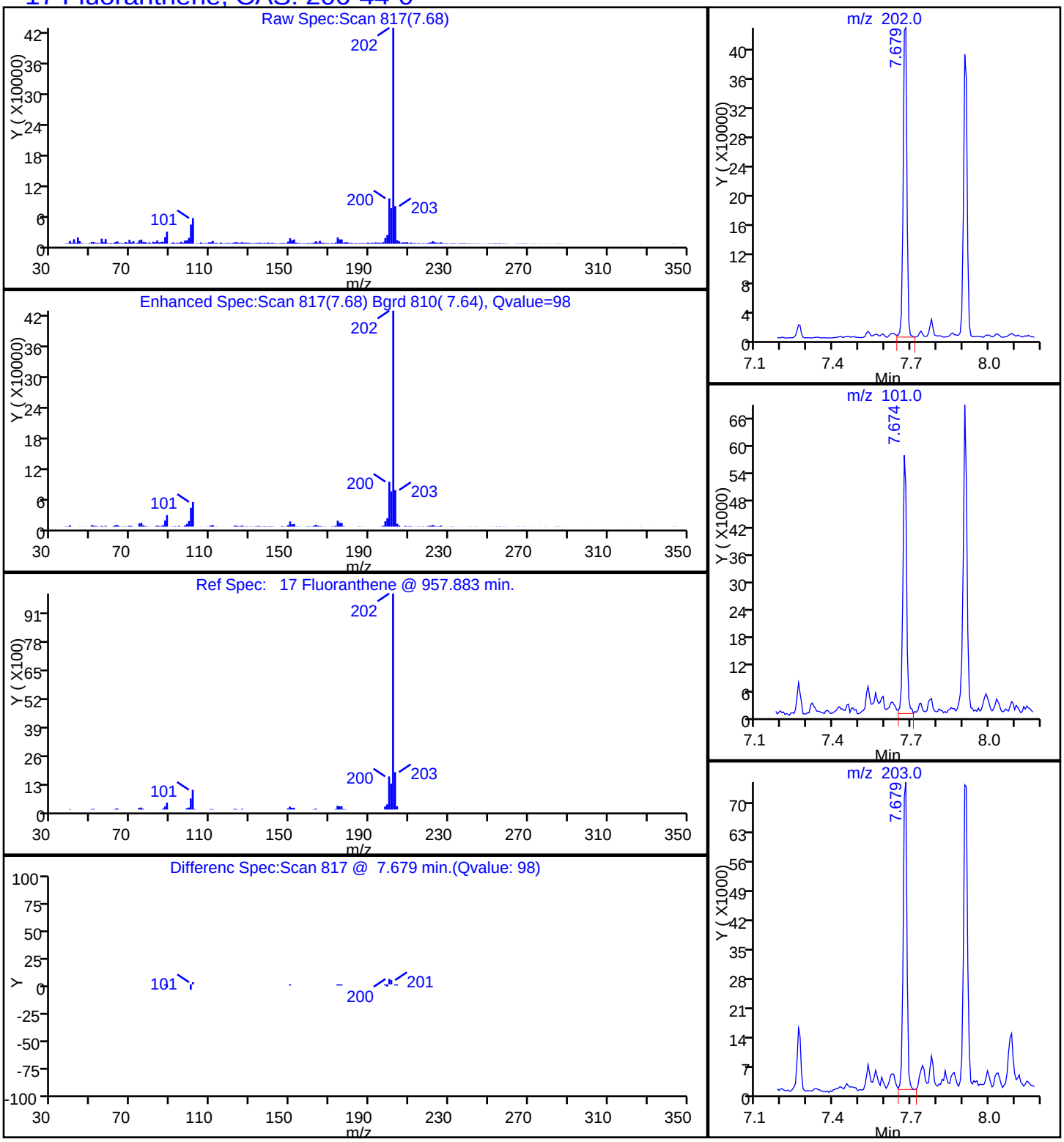


Report Date: 20-Nov-2014 10:09:41 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1921.D				
Injection Date:	19-Nov-2014 19:40:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-1-A	Lab Sample ID:	680-107310-1		
Client ID:	CV1061A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 Fluoranthene, CAS: 206-44-0

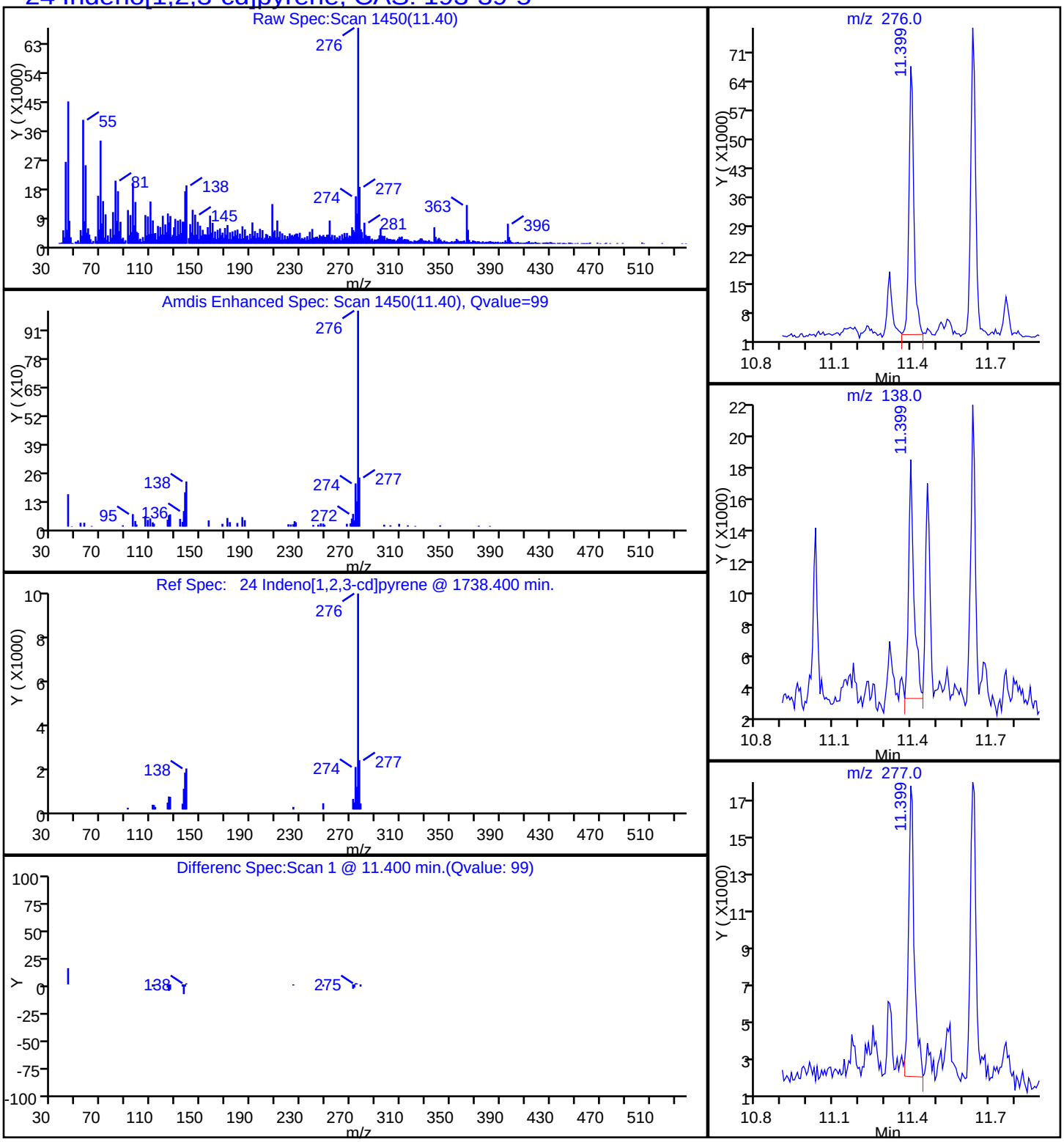


Report Date: 20-Nov-2014 10:09:42 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1921.D				
Injection Date:	19-Nov-2014 19:40:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-1-A	Lab Sample ID:	680-107310-1		
Client ID:	CV1061A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

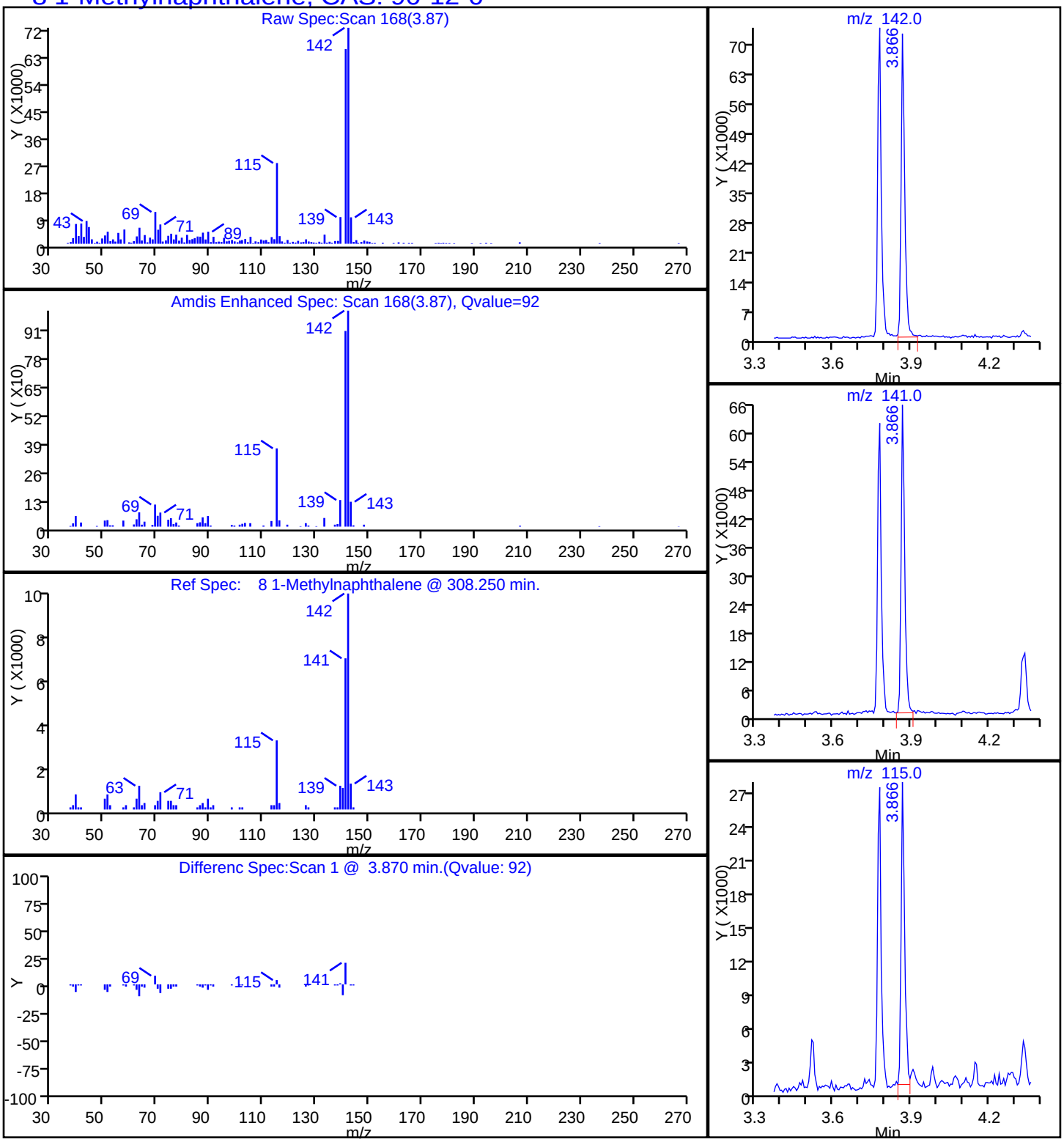


Report Date: 20-Nov-2014 10:09:41 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1921.D				
Injection Date:	19-Nov-2014 19:40:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-1-A	Lab Sample ID:	680-107310-1		
Client ID:	CV1061A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

8 1-Methylnaphthalene, CAS: 90-12-0

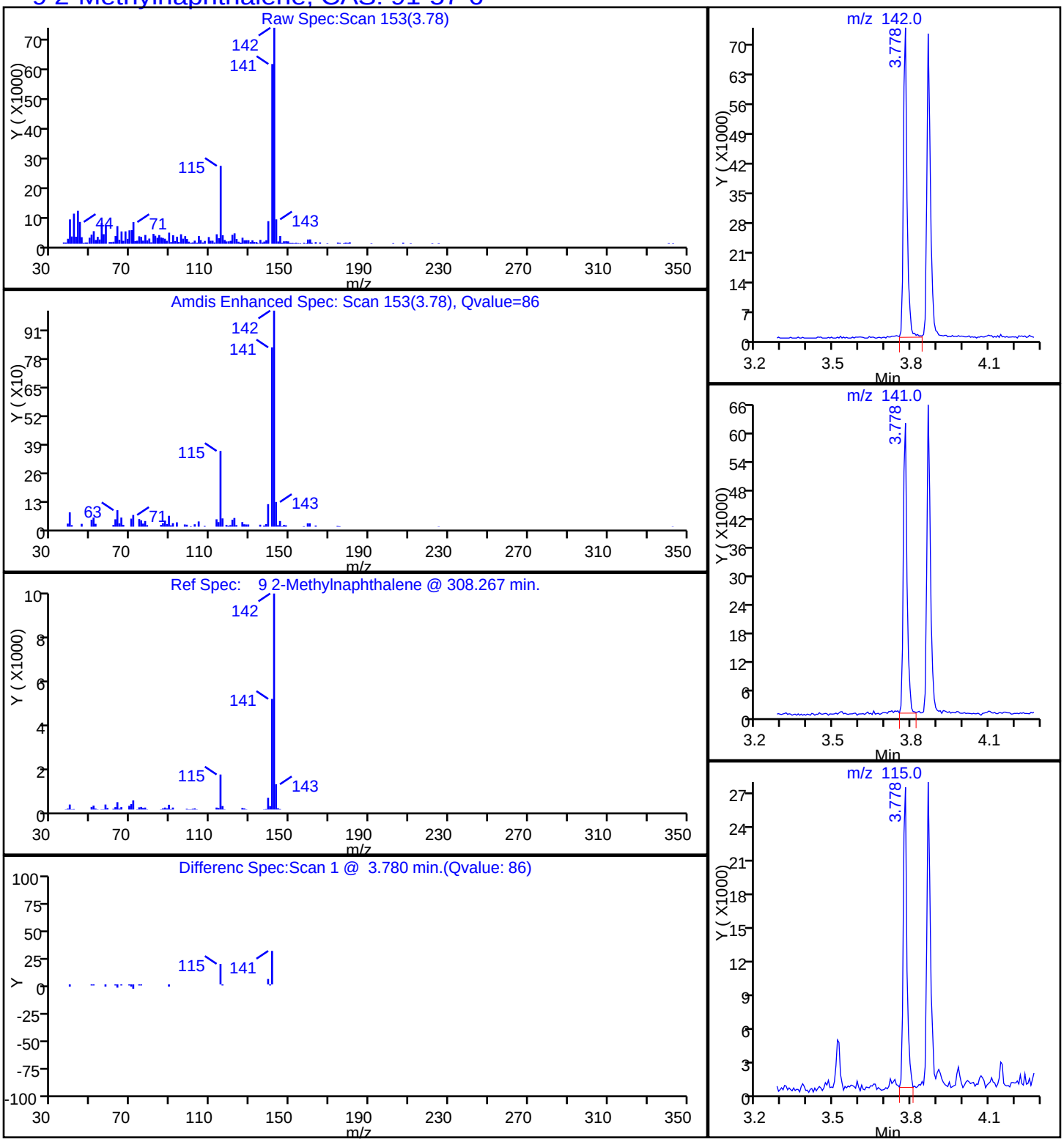


Report Date: 20-Nov-2014 10:09:41 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1921.D				
Injection Date:	19-Nov-2014 19:40:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-1-A	Lab Sample ID:	680-107310-1		
Client ID:	CV1061A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

9 2-Methylnaphthalene, CAS: 91-57-6

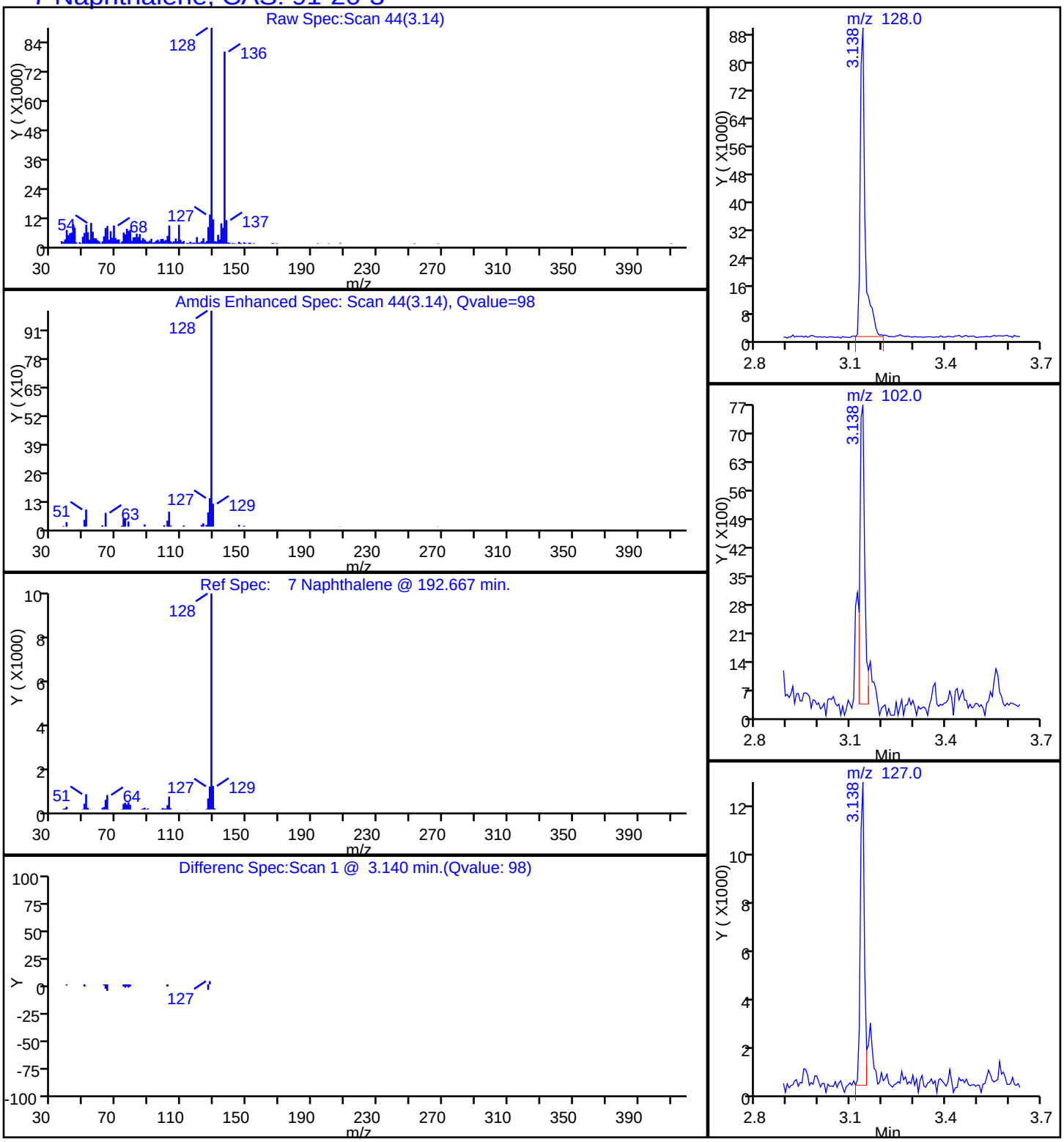


Report Date: 20-Nov-2014 10:09:41 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1921.D				
Injection Date:	19-Nov-2014 19:40:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-1-A	Lab Sample ID:	680-107310-1		
Client ID:	CV1061A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

7 Naphthalene, CAS: 91-20-3

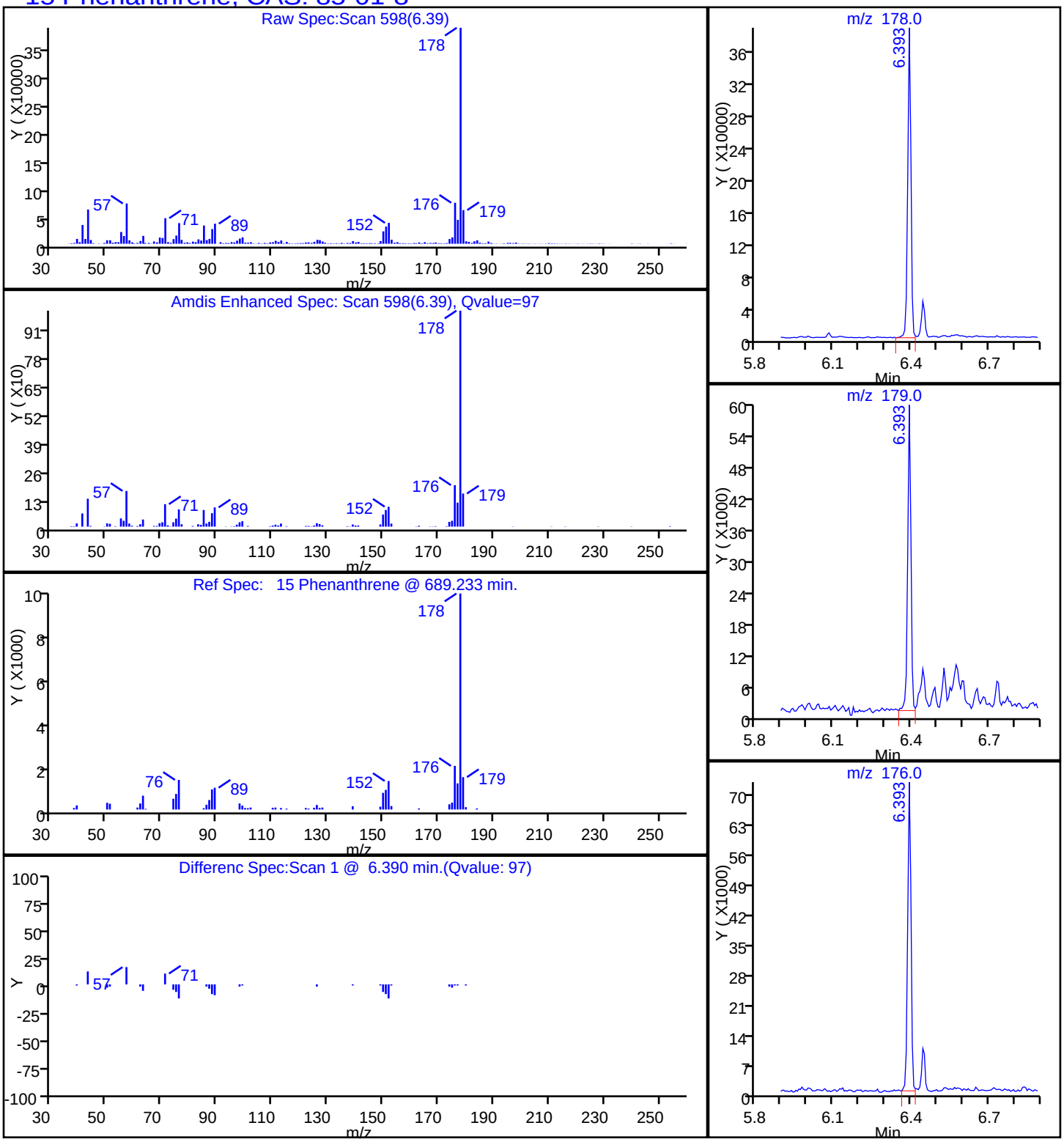


Report Date: 20-Nov-2014 10:09:41 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1921.D				
Injection Date:	19-Nov-2014 19:40:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-1-A	Lab Sample ID:	680-107310-1		
Client ID:	CV1061A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

15 Phenanthrene, CAS: 85-01-8

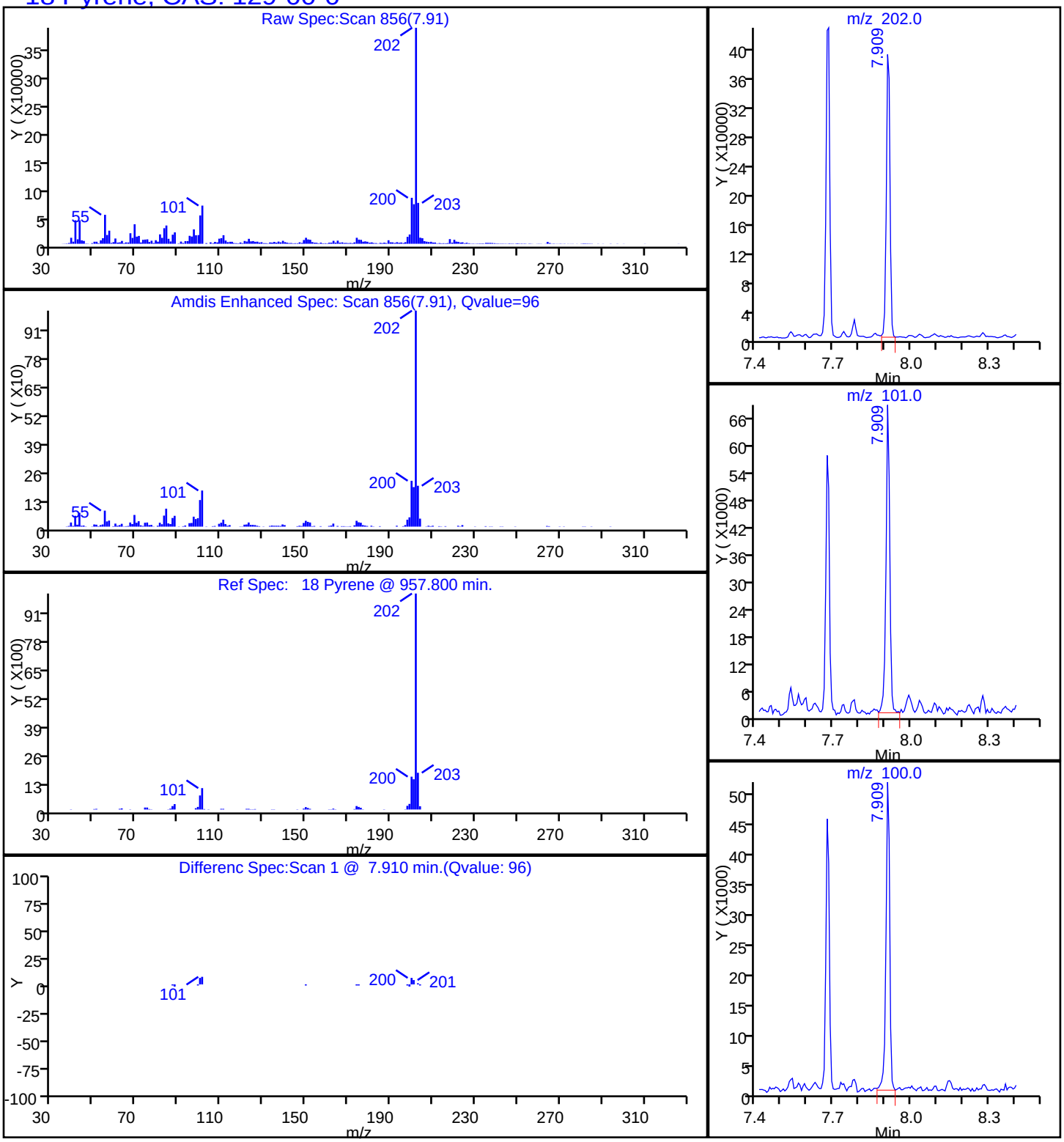


Report Date: 20-Nov-2014 10:09:41 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1921.D				
Injection Date:	19-Nov-2014 19:40:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-1-A	Lab Sample ID:	680-107310-1		
Client ID:	CV1061A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

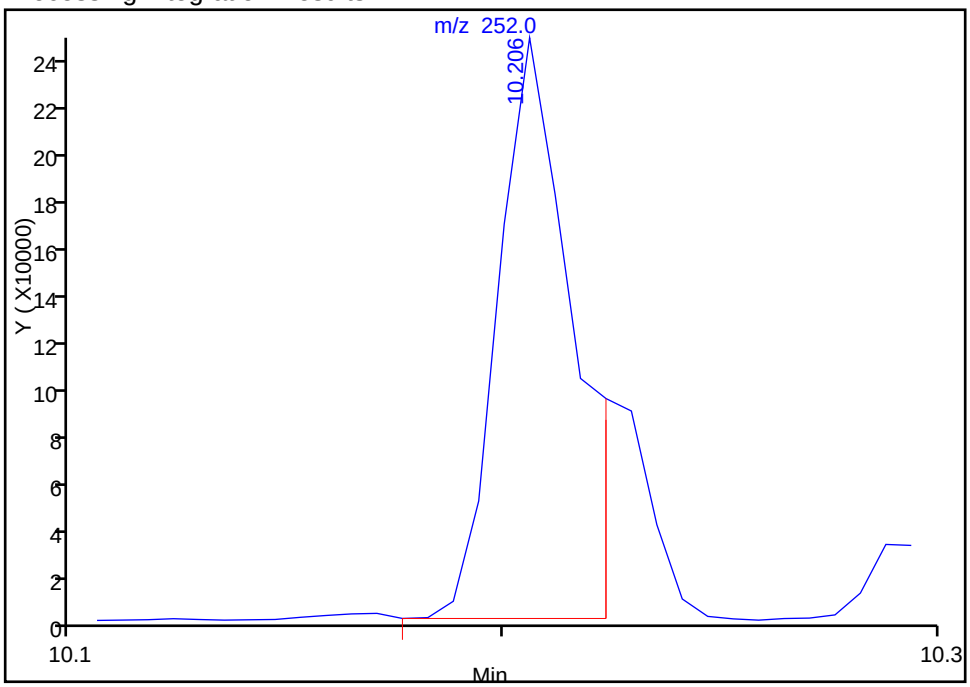
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1921.D				
Injection Date:	19-Nov-2014 19:40:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-1-A	Lab Sample ID:	680-107310-1		
Client ID:	CV1061A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

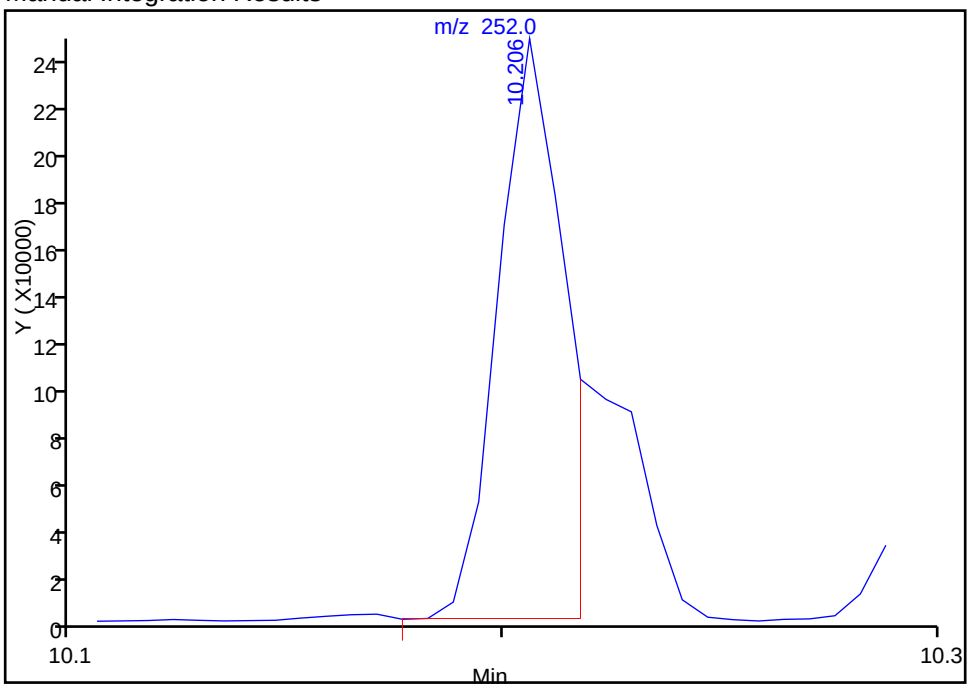
Processing Integration Results

RT: 10.21
Response: 297533
Amount: 1.107252



Manual Integration Results

RT: 10.21
Response: 263746
Amount: 1.002974



Reviewer: webbk, 20-Nov-2014 08:19:31
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

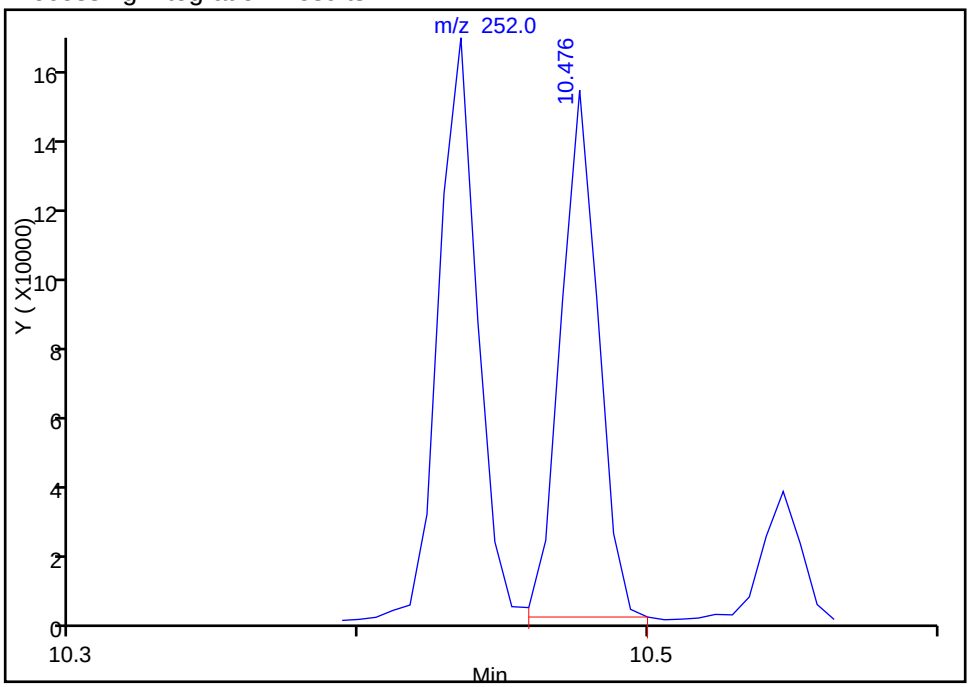
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1921.D				
Injection Date:	19-Nov-2014 19:40:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-1-A	Lab Sample ID:	680-107310-1		
Client ID:	CV1061A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

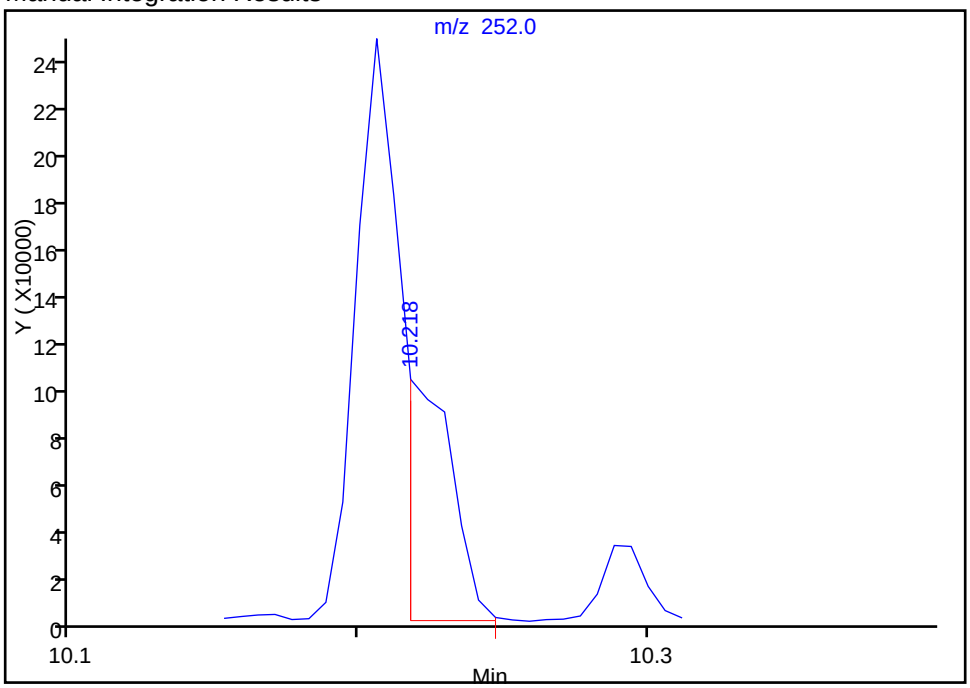
Processing Integration Results

RT: 10.48
Response: 134284
Amount: 0.491588



Manual Integration Results

RT: 10.22
Response: 117731
Amount: 0.430991



Reviewer: webbk, 20-Nov-2014 08:19:31
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107310-1

SDG No.: 680-107310-1

Client Sample ID: CV1061B-CS0-4'' | Lab Sample ID: 680-107310-2

Matrix: Solid | Lab File ID: 2KK1922.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/13/2014 10:40

Extract. Method: 3546 | Date Extracted: 11/17/2014 12:45

Sample wt/vol: 30.03(g) | Date Analyzed: 11/19/2014 20:03

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

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

% Moisture: 14.3 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359503 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	78	U	78	38
208-96-8	Acenaphthylene	78	U	78	38
120-12-7	Anthracene	78	U	78	38
56-55-3	Benzo[a]anthracene	200		78	38
50-32-8	Benzo[a]pyrene	230		78	14
205-99-2	Benzo[b]fluoranthene	430		78	38
191-24-2	Benzo[g,h,i]perylene	210		78	38
207-08-9	Benzo[k]fluoranthene	130		78	23
218-01-9	Chrysene	320		78	38
53-70-3	Dibenz(a,h)anthracene	78		78	38
206-44-0	Fluoranthene	370		78	38
86-73-7	Fluorene	78	U	78	38
193-39-5	Indeno[1,2,3-cd]pyrene	180		78	38
90-12-0	1-Methylnaphthalene	55	J	78	36
91-57-6	2-Methylnaphthalene	65	J	78	38
91-20-3	Naphthalene	56	J	78	38
85-01-8	Phenanthrene	270		78	28
129-00-0	Pyrene	330		78	38

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\CMSK\20141119-14922.b\2KK1922.D
Lims ID: 680-107310-A-2-A Lab Sample ID: 680-107310-2
Client ID: CV1061B-CS0-4"
Sample Type: Client
Inject. Date: 19-Nov-2014 20:03:30 ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 680-107310-A-2-A 1:10
Misc. Info.: 680-0014922-022
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:35 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 20-Nov-2014 08:20:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.120	3.114	0.006	100	726014	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	93	399439	2.00	
* 3 Phenanthrene-d10	188	6.369	6.363	0.006	98	628354	2.00	
* 4 Chrysene-d12	240	9.201	9.196	0.005	100	558997	2.00	
* 5 Perylene-d12	264	10.529	10.518	0.011	99	410393	2.00	
7 Naphthalene	128	3.138	3.138	0.000	98	58572	0.1439	
9 2-Methylnaphthalene	142	3.778	3.778	0.000	85	41335	0.1667	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	94	32010	0.1419	
11 Acenaphthylene	152	4.660	4.654	0.006	97	24312	0.0575	
15 Phenanthrene	178	6.393	6.393	0.000	98	259209	0.6825	
16 Anthracene	178	6.446	6.446	0.000	97	31029	0.0803	
17 Fluoranthene	202	7.680	7.674	0.006	98	375140	0.9410	
18 Pyrene	202	7.915	7.909	0.006	97	331445	0.8474	
19 Benzo[a]anthracene	228	9.190	9.190	0.000	97	160639	0.5147	
20 Chrysene	228	9.225	9.225	0.000	98	238294	0.8123	
21 Benzo[b]fluoranthene	252	10.206	10.200	0.006	98	289876	1.10	M
22 Benzo[k]fluoranthene	252	10.230	10.224	0.006	98	90764	0.3334	M
23 Benzo[a]pyrene	252	10.476	10.471	0.006	98	131392	0.5961	
24 Indeno[1,2,3-cd]pyrene	276	11.405	11.399	0.006	99	92935	0.4624	
25 Dibenz(a,h)anthracene	278	11.428	11.422	0.006	93	30259	0.1999	
26 Benzo[g,h,i]perylene	276	11.646	11.634	0.012	97	94127	0.5460	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

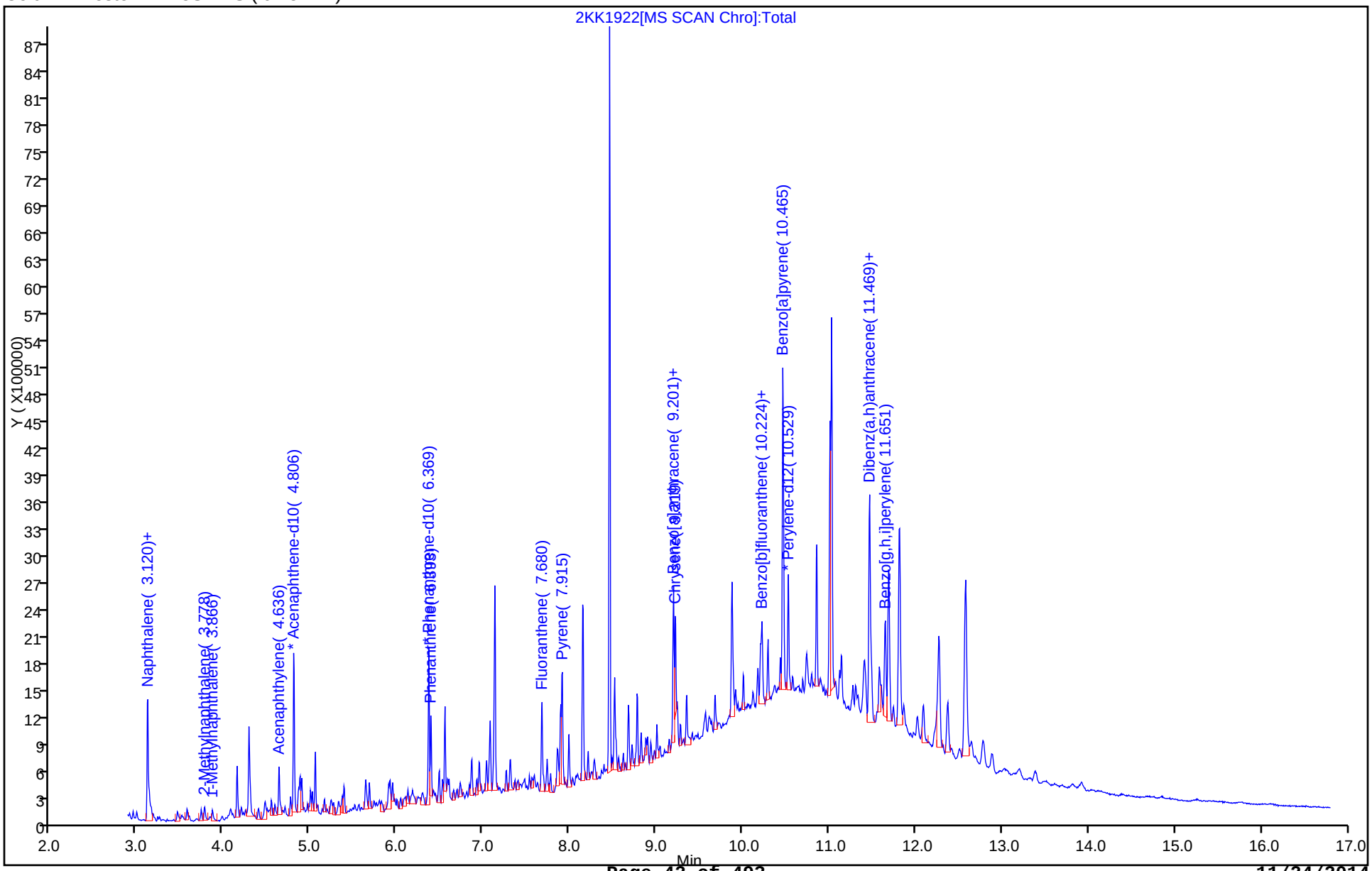
SM-LLISTD_00114 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 20-Nov-2014 10:09:40 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1922.D				
Injection Date:	19-Nov-2014 20:03:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-107310-A-2-A	Lab Sample ID:	680-107310-2	Worklist Smp#:	22
Client ID:	CV1061B-CS0-4"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	22
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

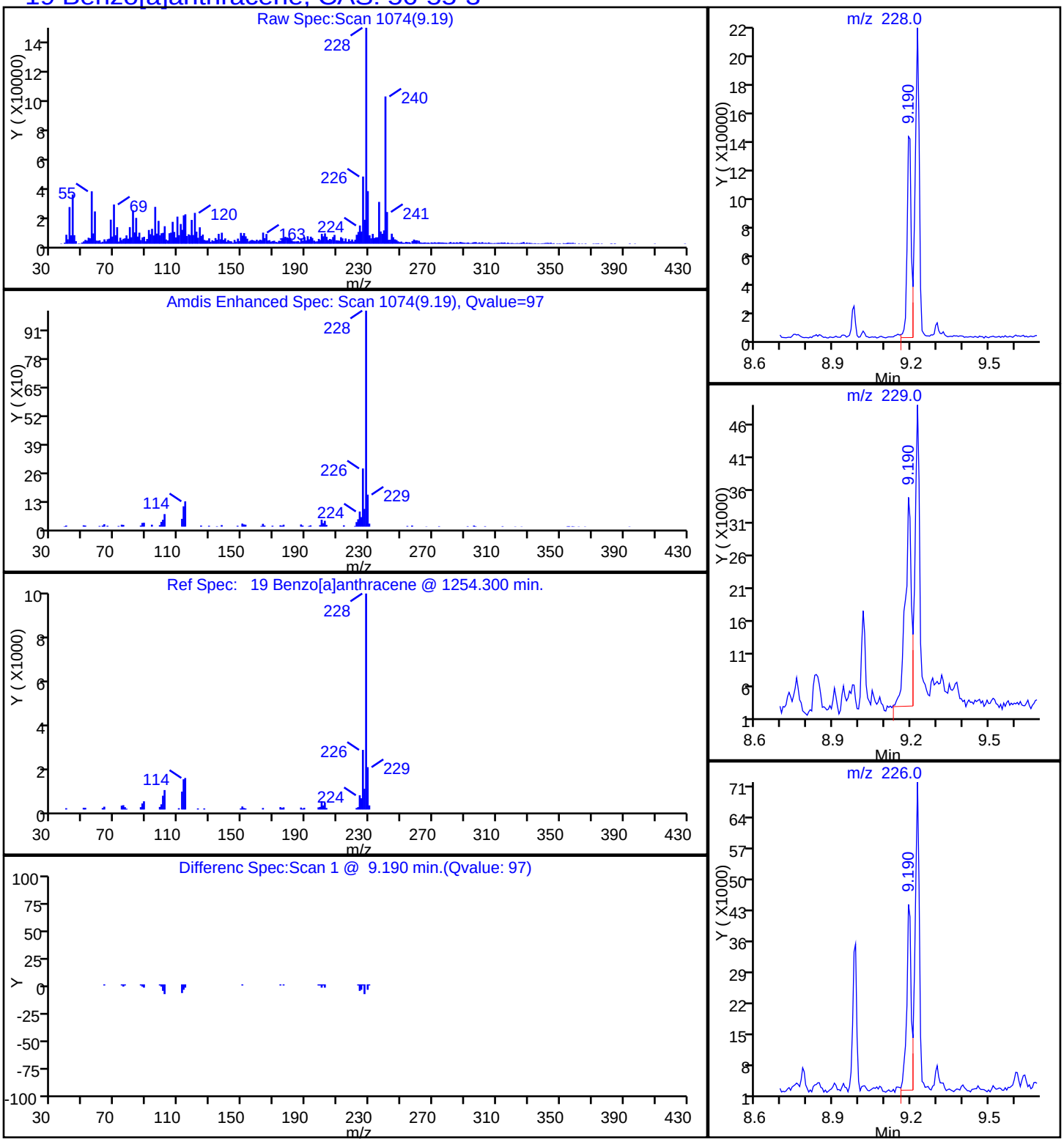


Report Date: 20-Nov-2014 10:09:40 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1922.D				
Injection Date:	19-Nov-2014 20:03:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-2-A	Lab Sample ID:	680-107310-2		
Client ID:	CV1061B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

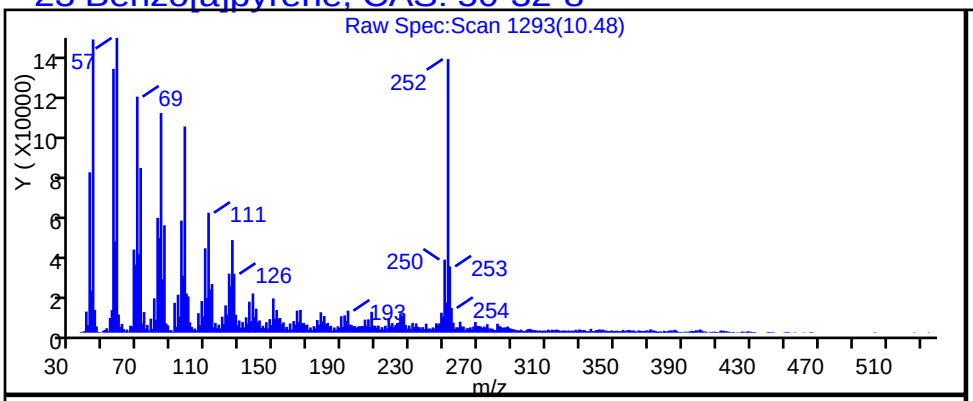


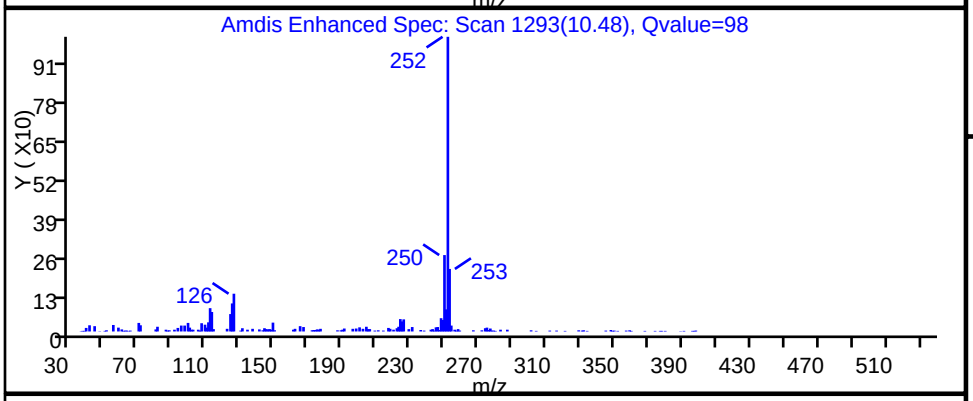
Report Date: 20-Nov-2014 10:09:40 Chrom Revision: 2.2 06-Nov-2014 14:50:32

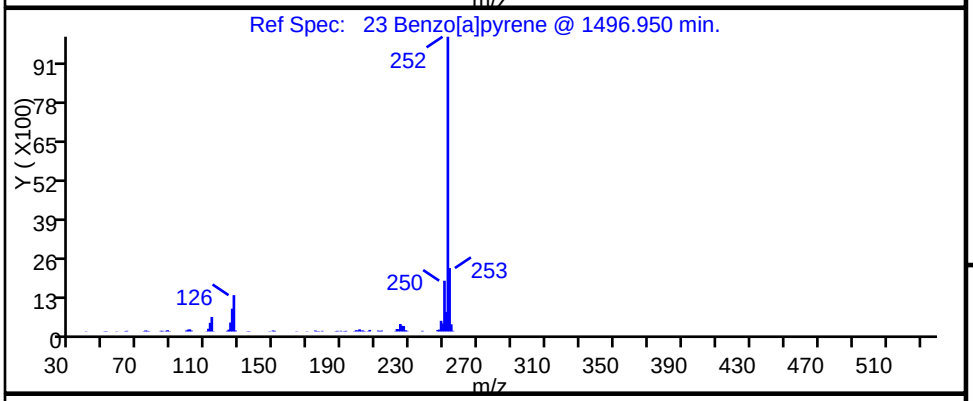
TestAmerica Savannah

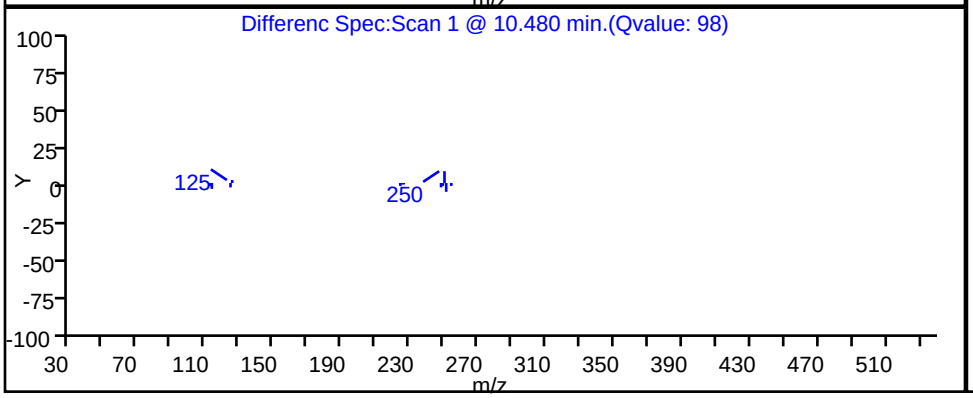
Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1922.D				
Injection Date:	19-Nov-2014 20:03:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-2-A	Lab Sample ID:	680-107310-2		
Client ID:	CV1061B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

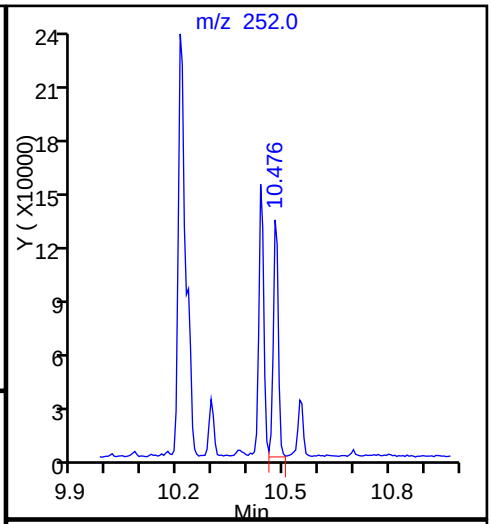
23 Benzo[a]pyrene, CAS: 50-32-8

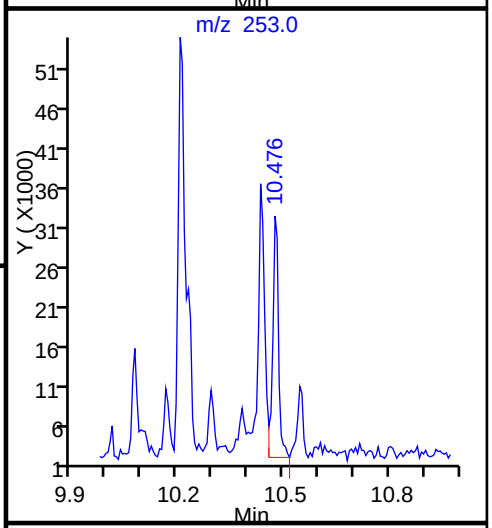


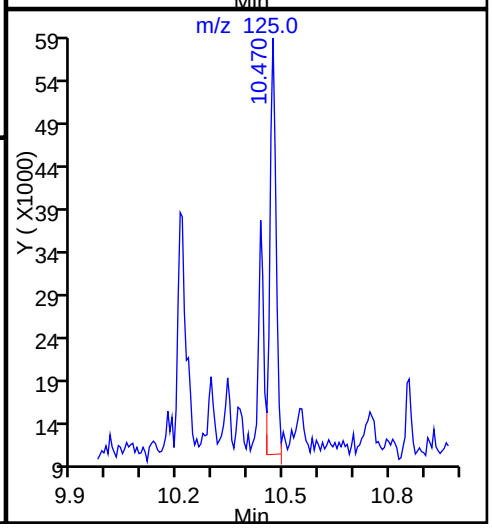










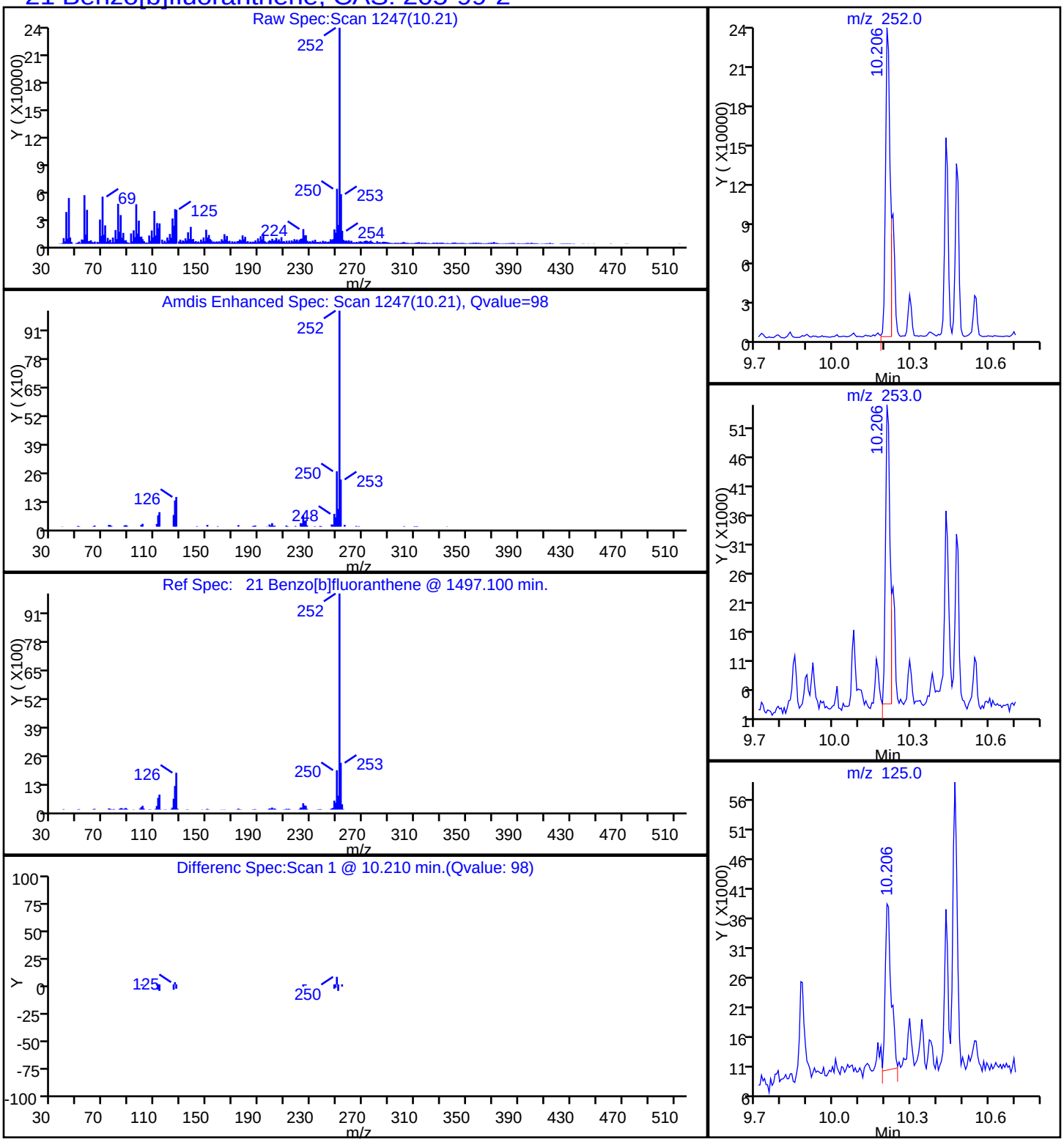


Report Date: 20-Nov-2014 10:09:40 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1922.D				
Injection Date:	19-Nov-2014 20:03:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-2-A	Lab Sample ID:	680-107310-2		
Client ID:	CV1061B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

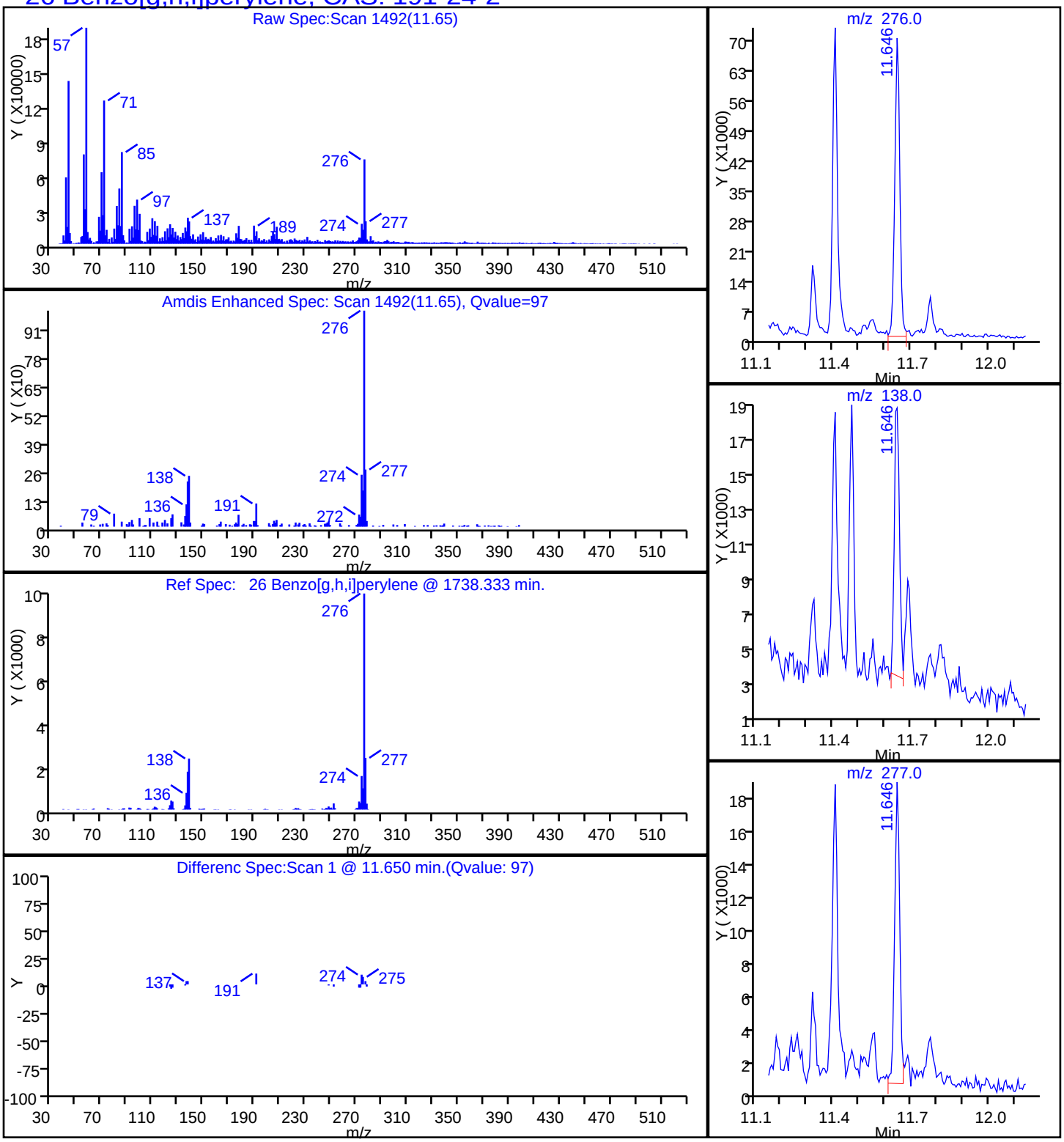


Report Date: 20-Nov-2014 10:09:40 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1922.D				
Injection Date:	19-Nov-2014 20:03:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-2-A	Lab Sample ID:	680-107310-2		
Client ID:	CV1061B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

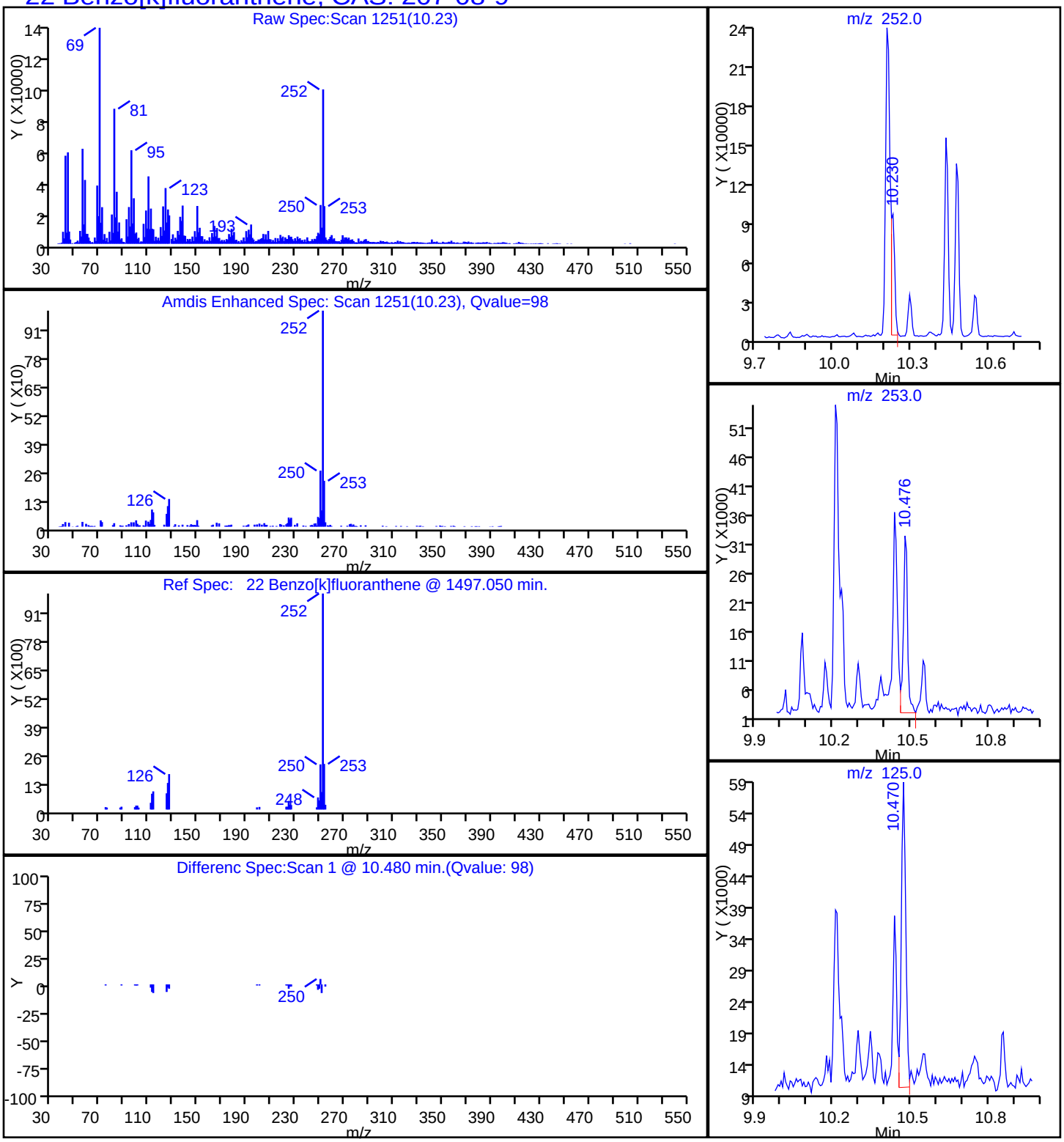


Report Date: 20-Nov-2014 10:09:40 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1922.D				
Injection Date:	19-Nov-2014 20:03:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-2-A	Lab Sample ID:	680-107310-2		
Client ID:	CV1061B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

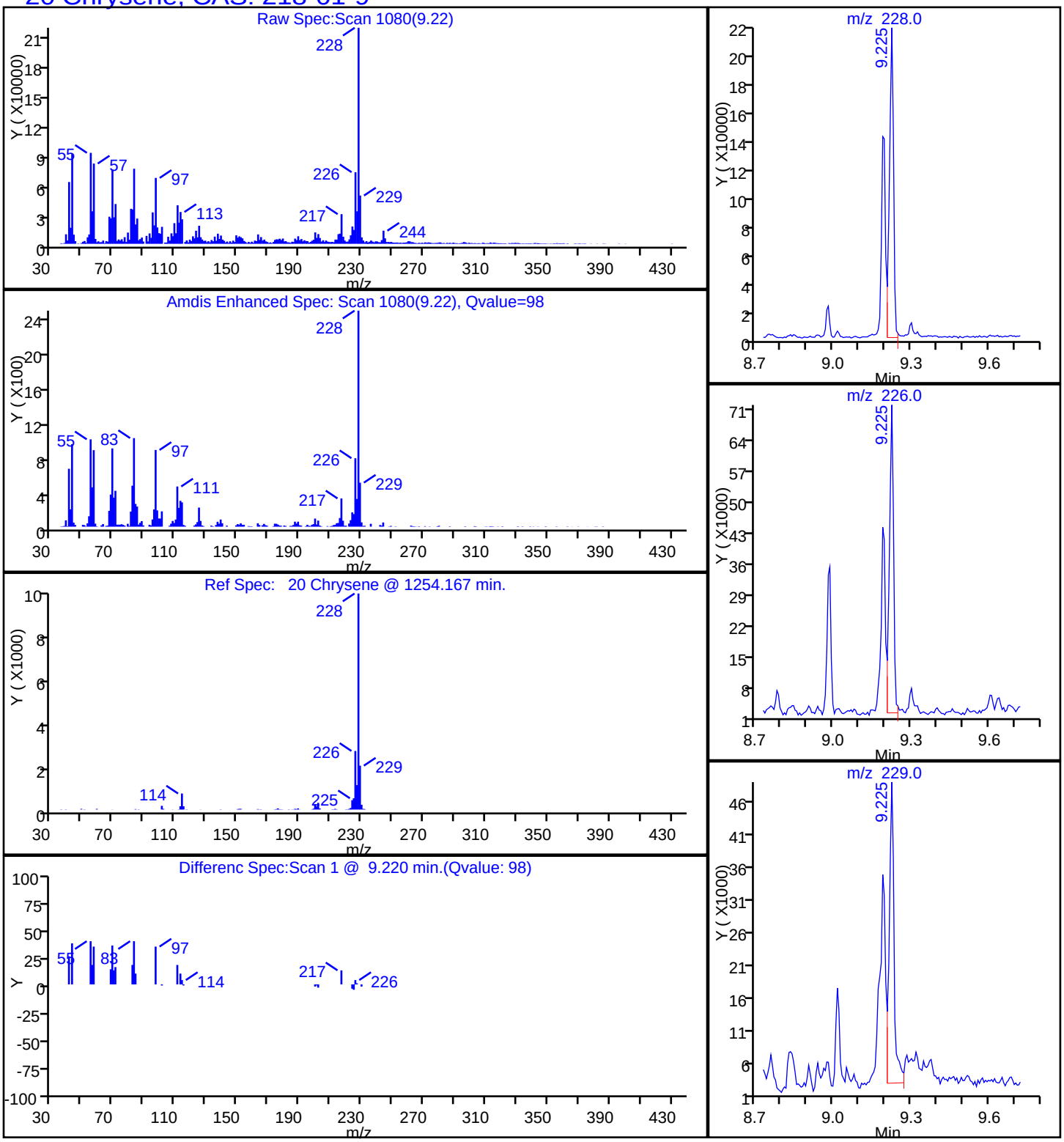


Report Date: 20-Nov-2014 10:09:40 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1922.D				
Injection Date:	19-Nov-2014 20:03:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-2-A	Lab Sample ID:	680-107310-2		
Client ID:	CV1061B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Chrysene, CAS: 218-01-9

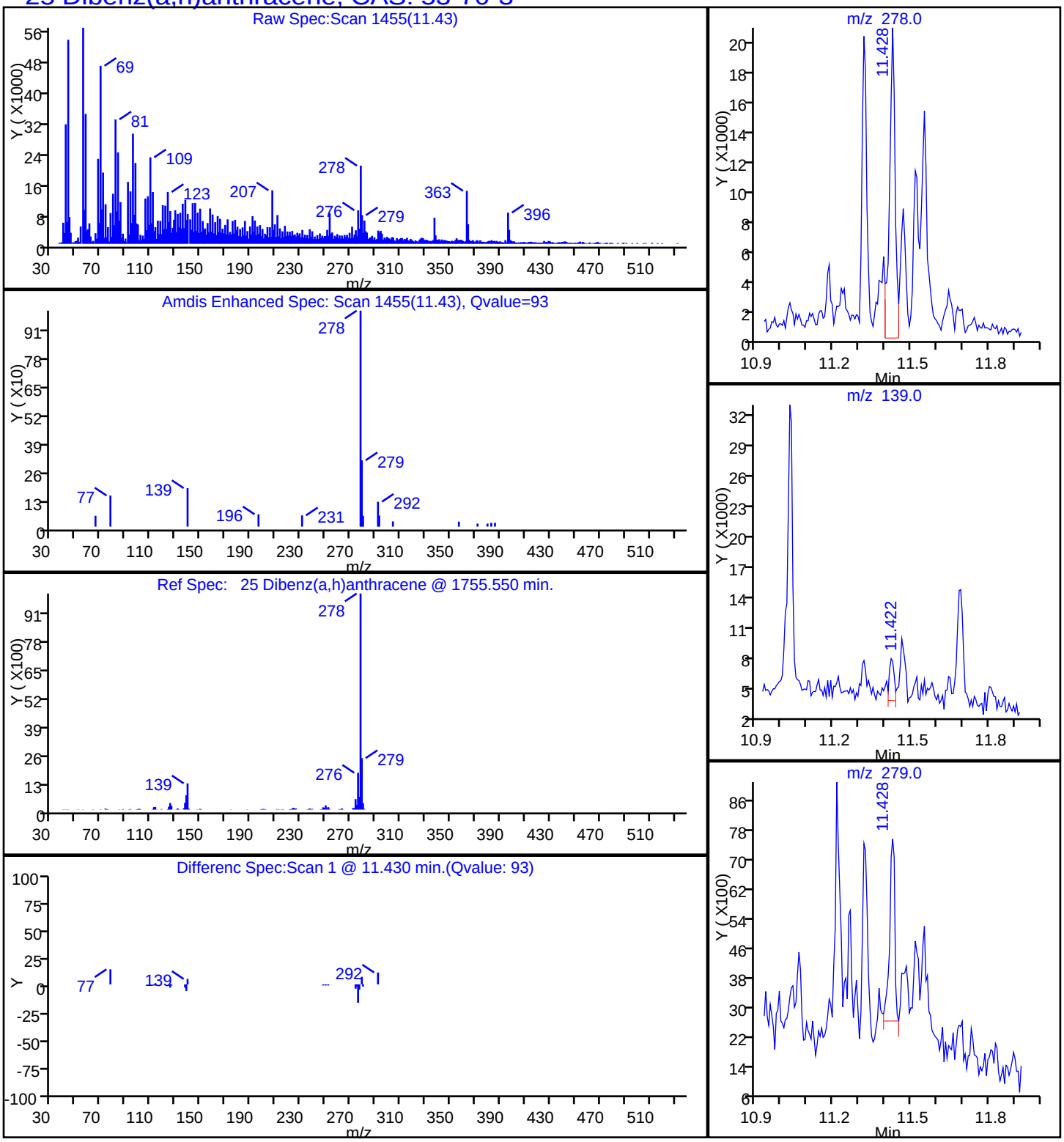


Report Date: 20-Nov-2014 10:09:40 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1922.D				
Injection Date:	19-Nov-2014 20:03:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-2-A	Lab Sample ID:	680-107310-2		
Client ID:	CV1061B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

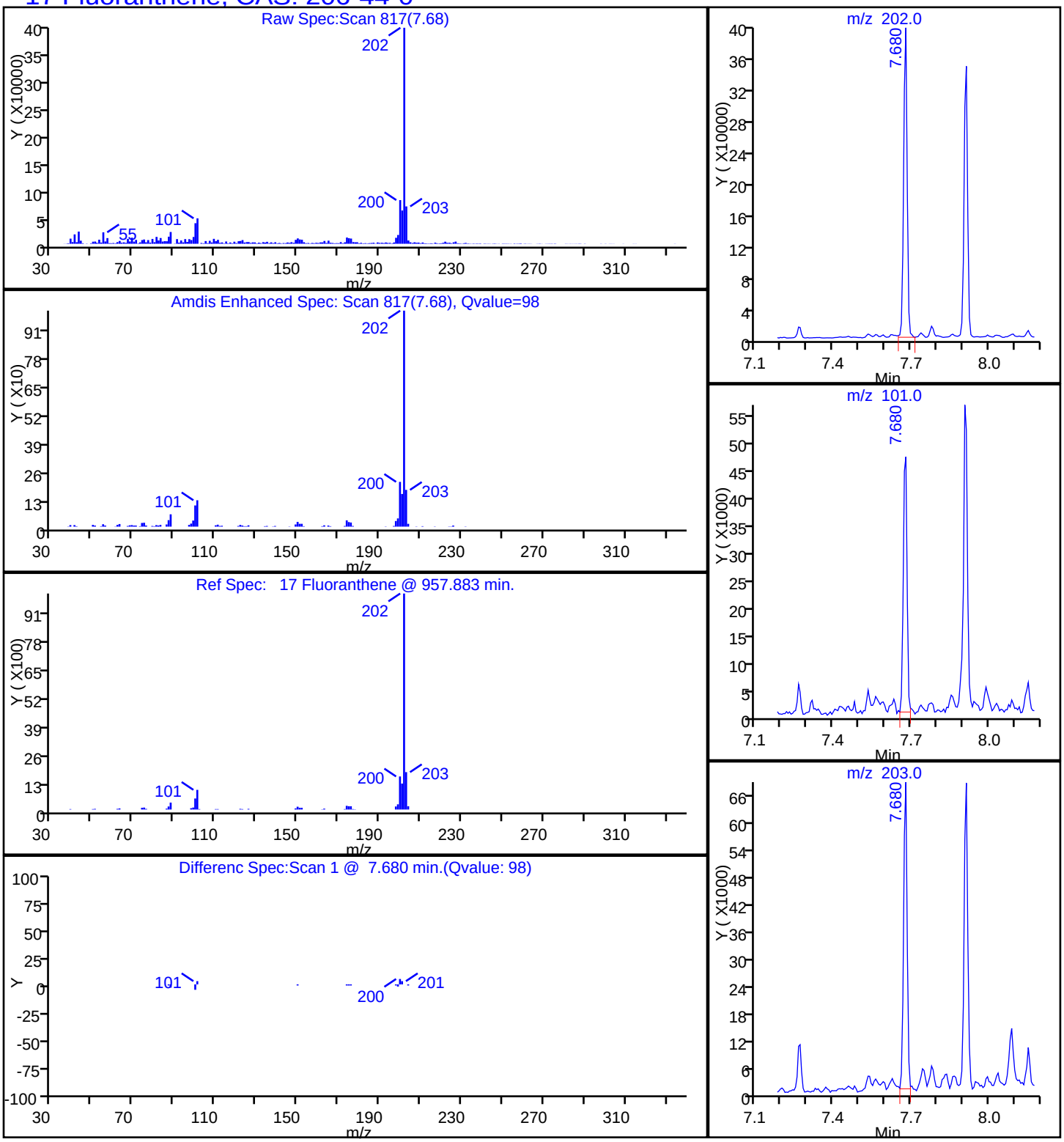


Report Date: 20-Nov-2014 10:09:40 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1922.D				
Injection Date:	19-Nov-2014 20:03:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-2-A	Lab Sample ID:	680-107310-2		
Client ID:	CV1061B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 Fluoranthene, CAS: 206-44-0

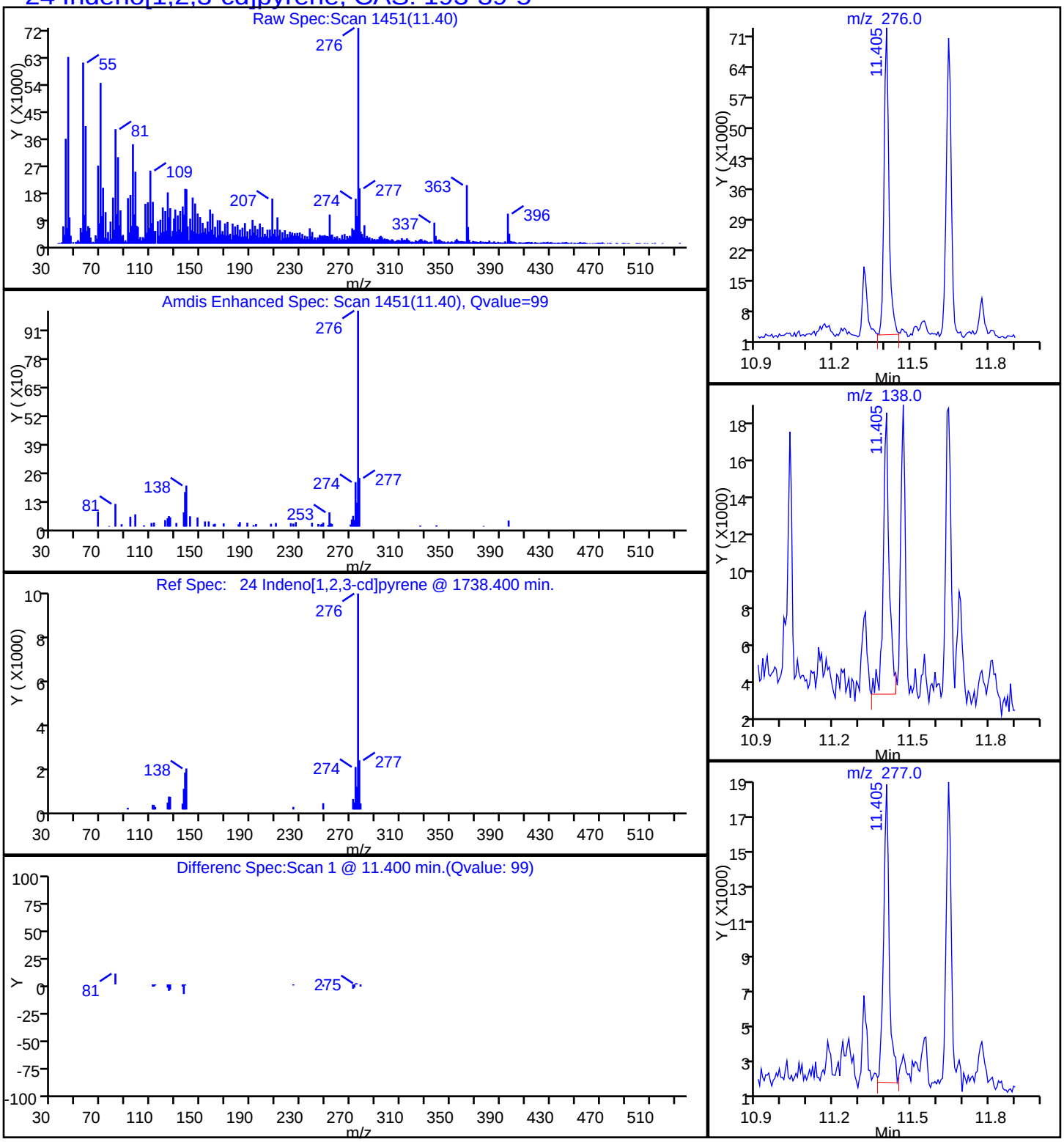


Report Date: 20-Nov-2014 10:09:40 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1922.D				
Injection Date:	19-Nov-2014 20:03:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-2-A	Lab Sample ID:	680-107310-2		
Client ID:	CV1061B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

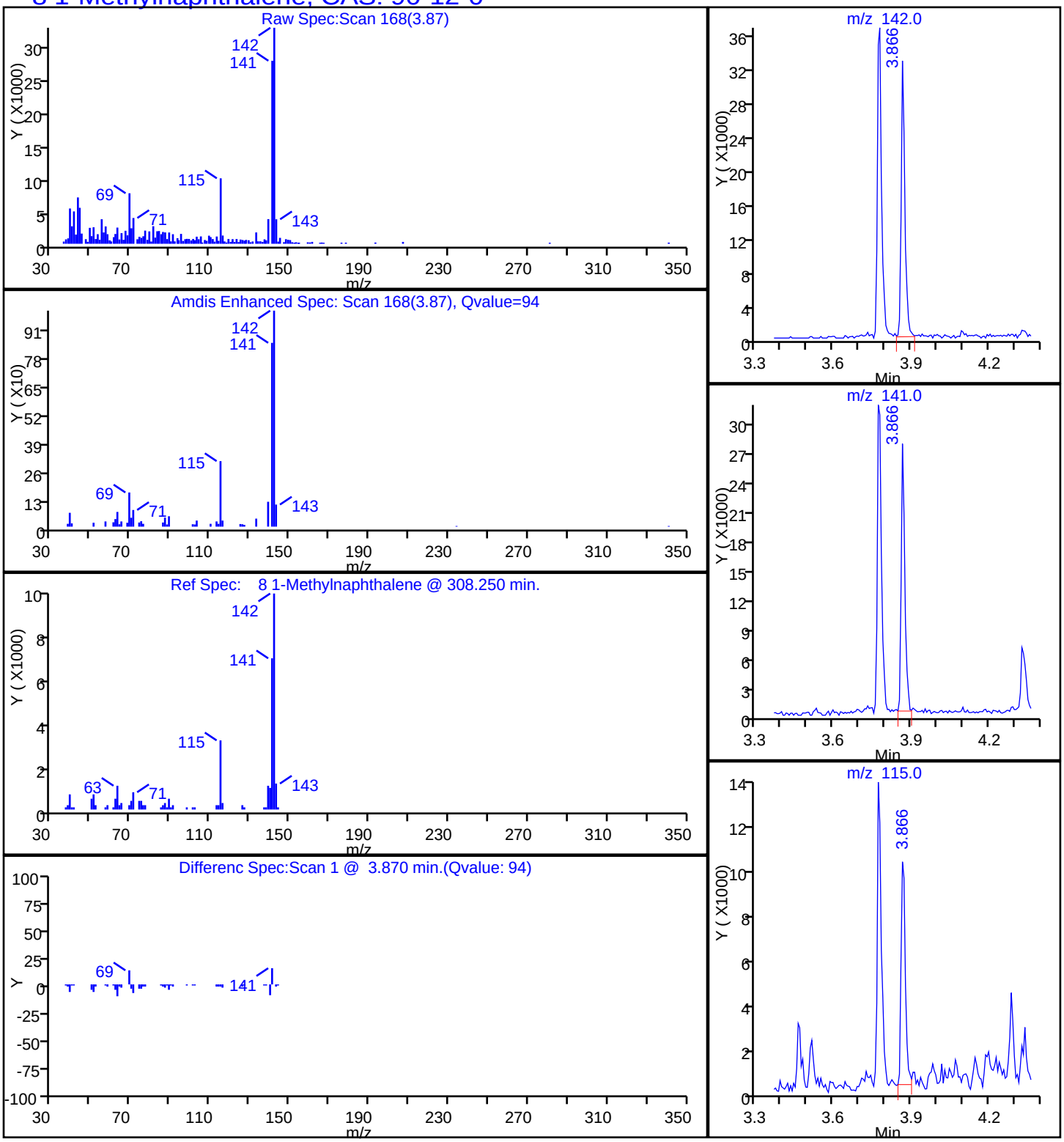


Report Date: 20-Nov-2014 10:09:40 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1922.D				
Injection Date:	19-Nov-2014 20:03:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-2-A	Lab Sample ID:	680-107310-2		
Client ID:	CV1061B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

8 1-Methylnaphthalene, CAS: 90-12-0

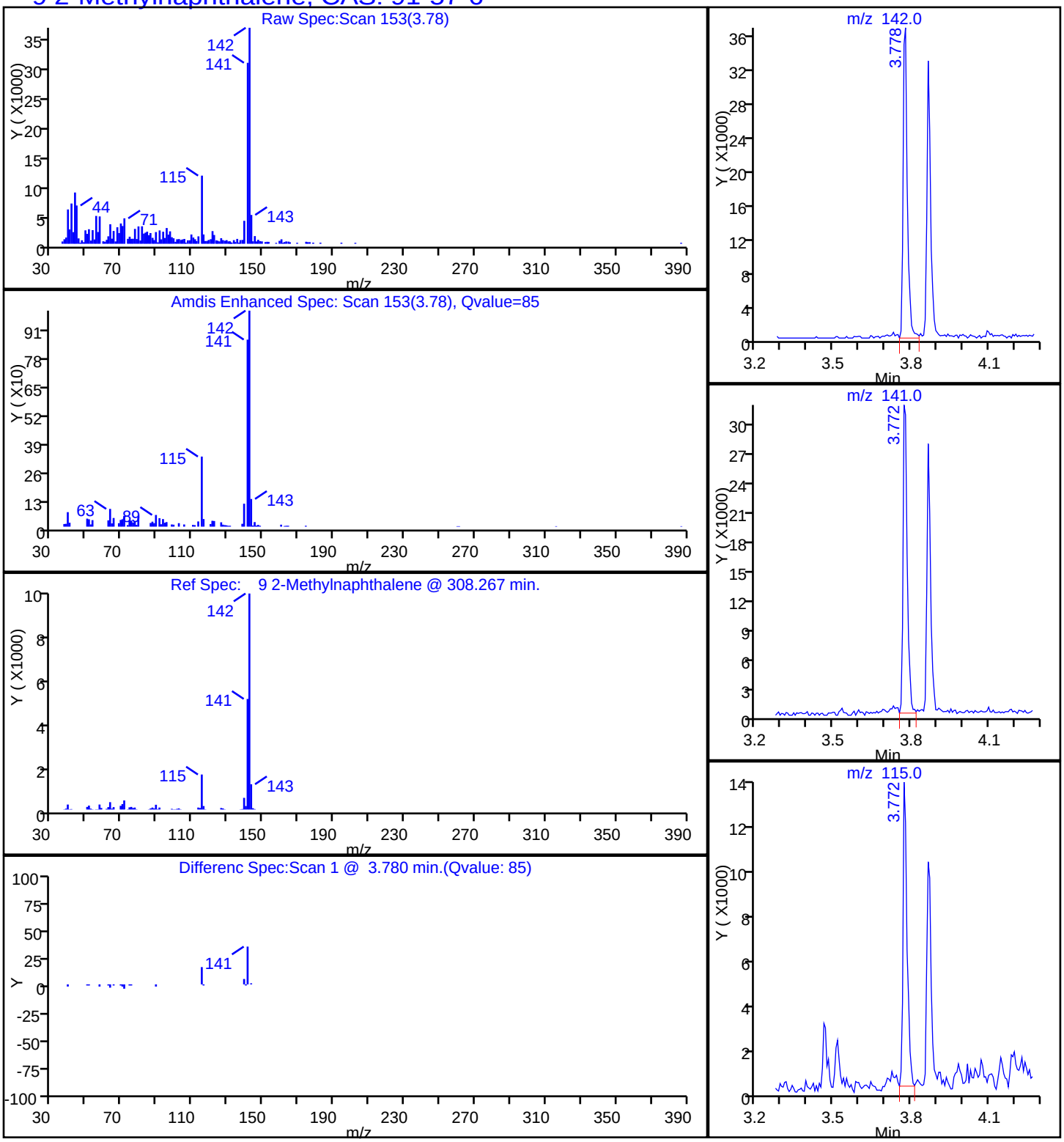


Report Date: 20-Nov-2014 10:09:40 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1922.D				
Injection Date:	19-Nov-2014 20:03:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-2-A	Lab Sample ID:	680-107310-2		
Client ID:	CV1061B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

9 2-Methylnaphthalene, CAS: 91-57-6

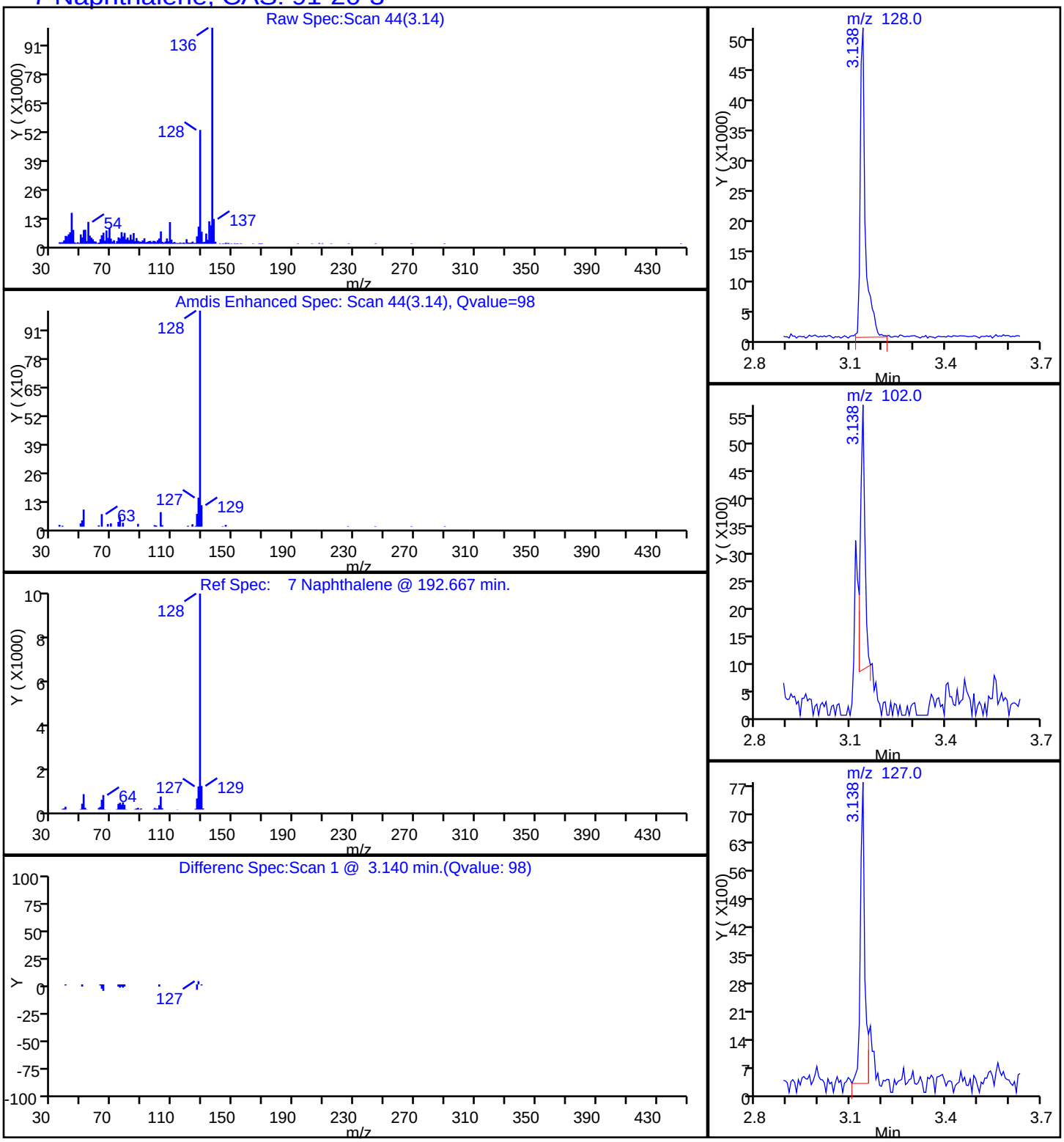


Report Date: 20-Nov-2014 10:09:40 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1922.D				
Injection Date:	19-Nov-2014 20:03:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-2-A	Lab Sample ID:	680-107310-2		
Client ID:	CV1061B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

7 Naphthalene, CAS: 91-20-3

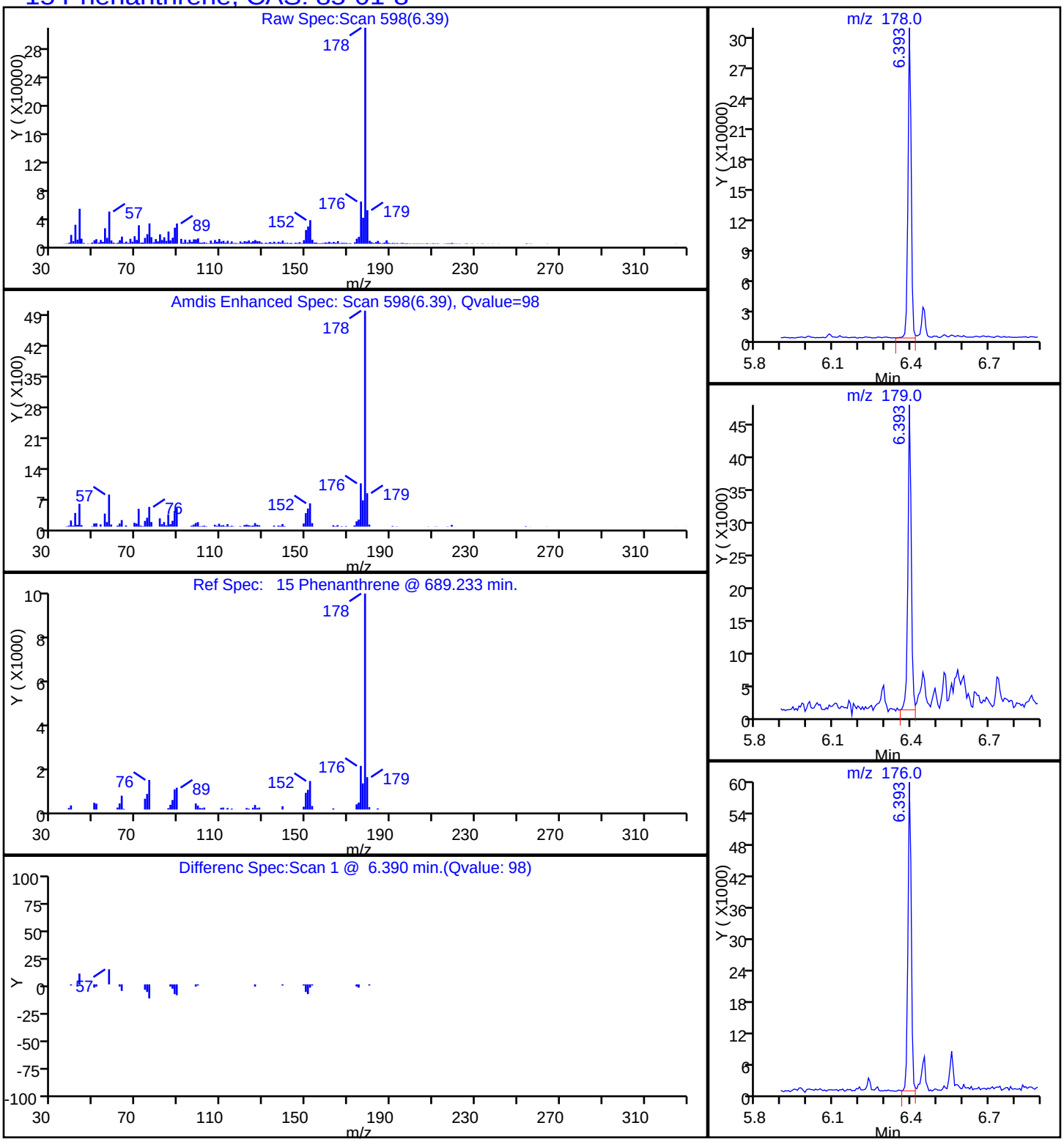


Report Date: 20-Nov-2014 10:09:40 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1922.D				
Injection Date:	19-Nov-2014 20:03:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-2-A	Lab Sample ID:	680-107310-2		
Client ID:	CV1061B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

15 Phenanthrene, CAS: 85-01-8

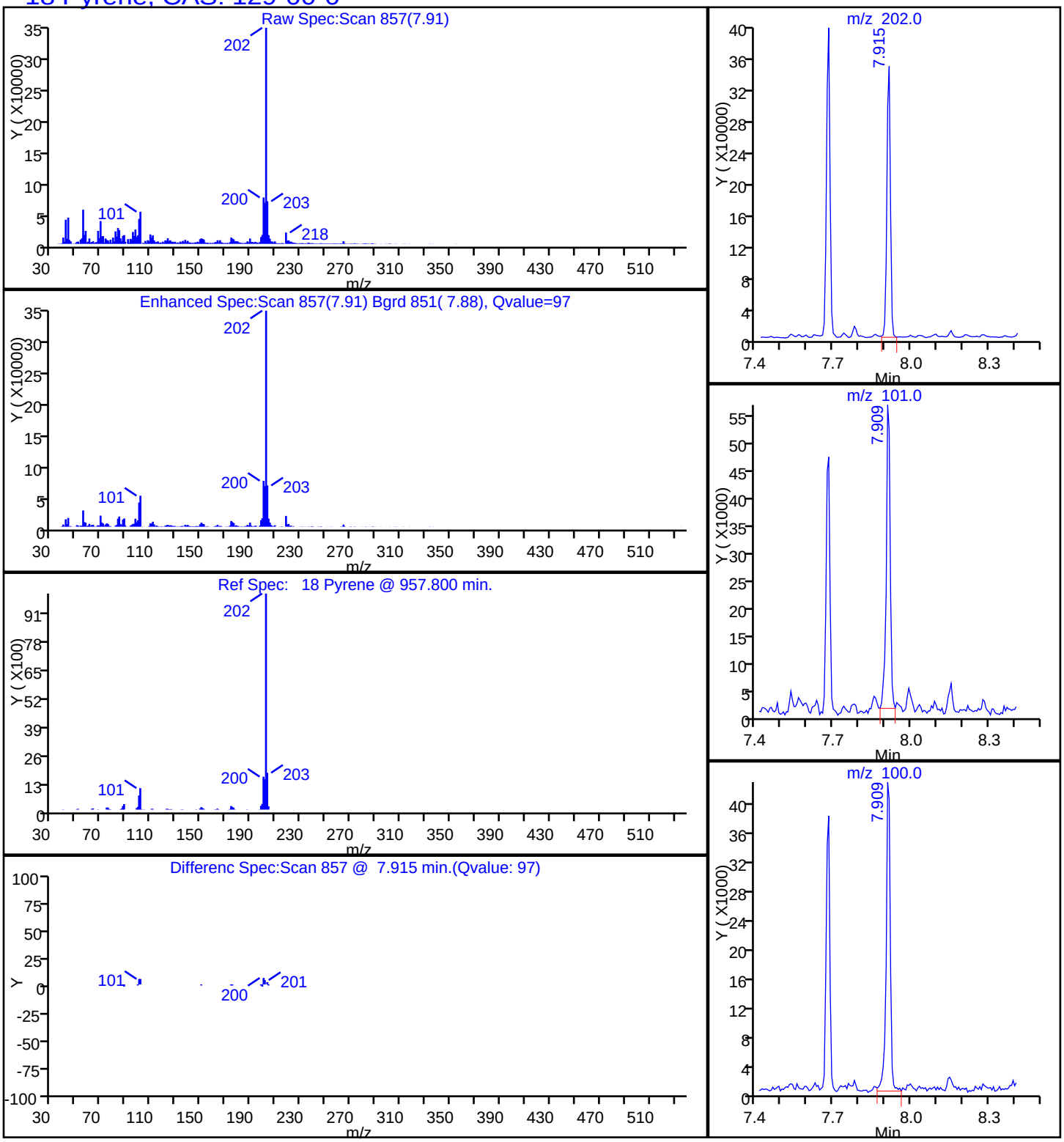


Report Date: 20-Nov-2014 10:09:40 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1922.D				
Injection Date:	19-Nov-2014 20:03:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-2-A	Lab Sample ID:	680-107310-2		
Client ID:	CV1061B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

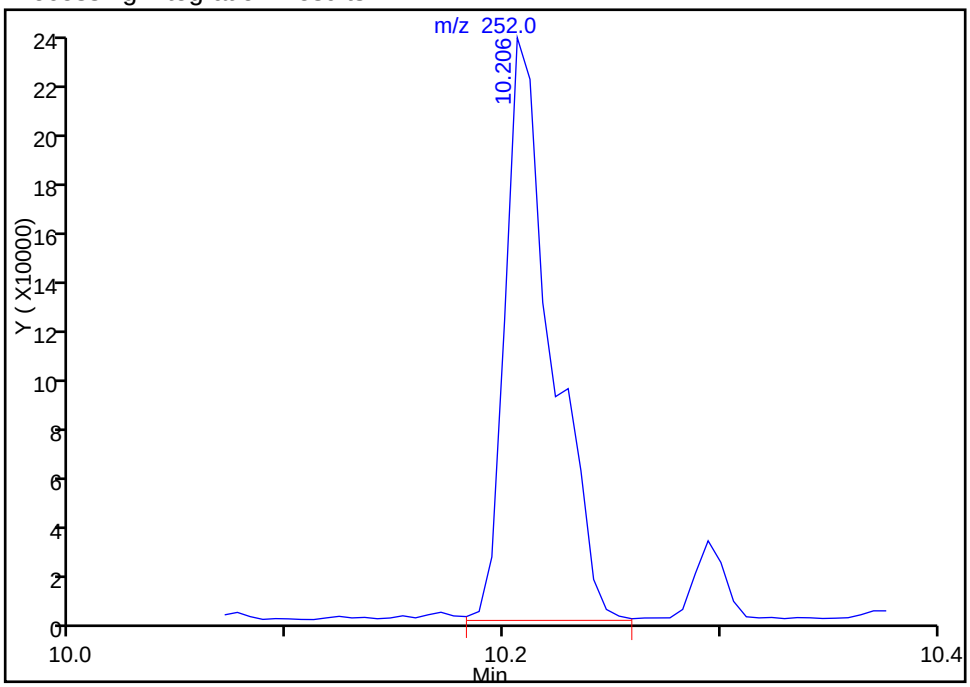
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1922.D				
Injection Date:	19-Nov-2014 20:03:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-2-A	Lab Sample ID:	680-107310-2		
Client ID:	CV1061B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

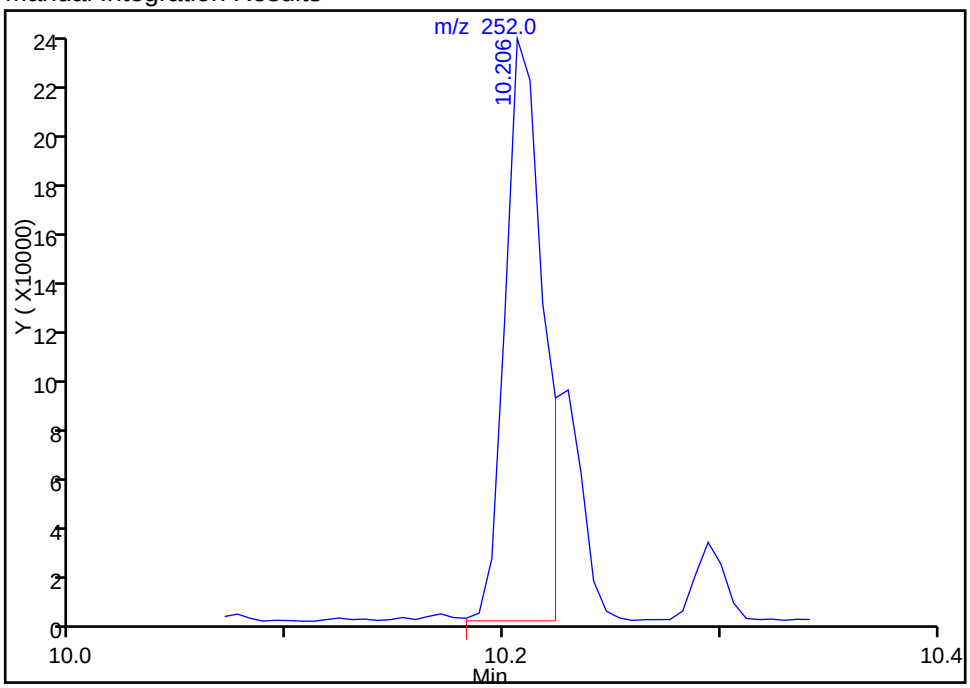
Processing Integration Results

RT: 10.21
Response: 353929
Amount: 1.321414



Manual Integration Results

RT: 10.21
Response: 289876
Amount: 1.104671



Reviewer: webbk, 20-Nov-2014 08:20:38
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

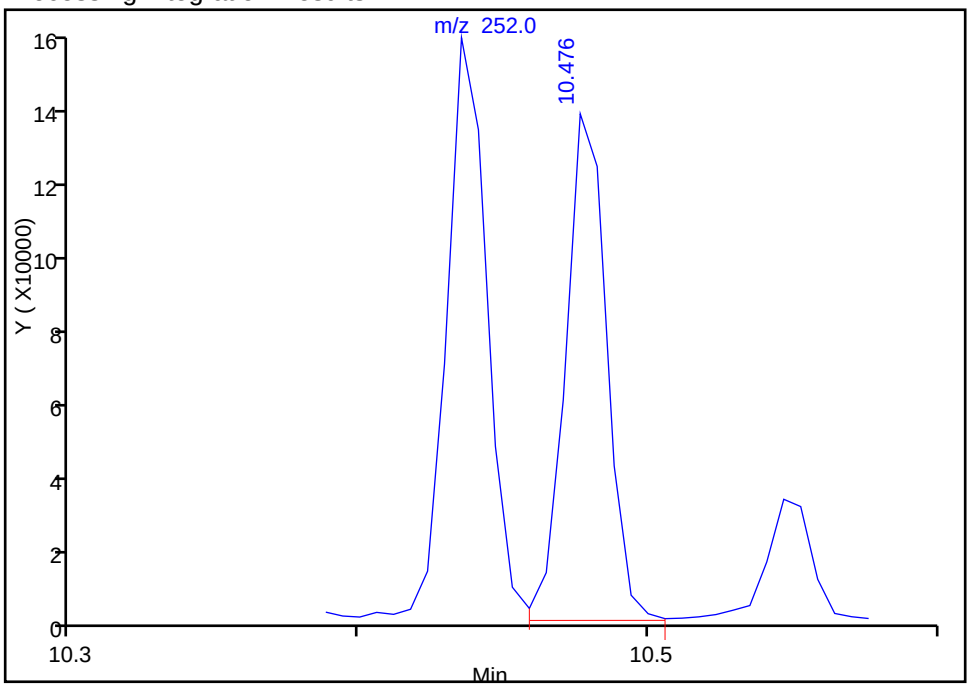
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1922.D				
Injection Date:	19-Nov-2014 20:03:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-2-A	Lab Sample ID:	680-107310-2		
Client ID:	CV1061B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

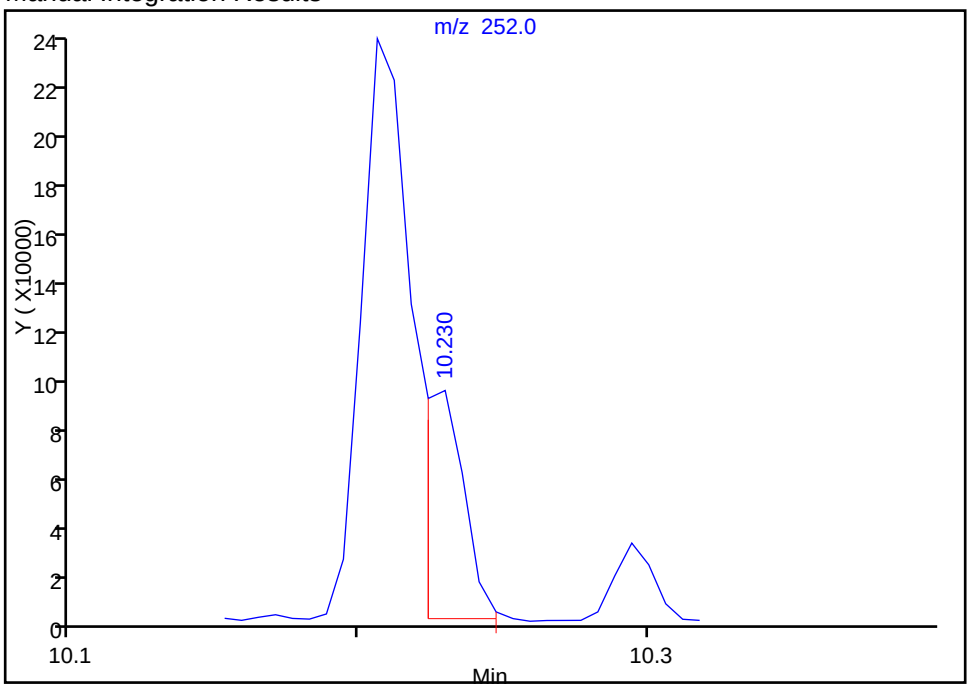
Processing Integration Results

RT: 10.48
Response: 131303
Amount: 0.482240



Manual Integration Results

RT: 10.23
Response: 90764
Amount: 0.333351



Reviewer: webbk, 20-Nov-2014 08:20:38
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107310-1

SDG No.: 680-107310-1

Client Sample ID: CV1063A-CS0-4'' | Lab Sample ID: 680-107310-3

Matrix: Solid | Lab File ID: 2KK1923.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/13/2014 11:05

Extract. Method: 3546 | Date Extracted: 11/17/2014 12:45

Sample wt/vol: 30.00(g) | Date Analyzed: 11/19/2014 20:25

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

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

% Moisture: 18.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359503 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	82	U	82	40
208-96-8	Acenaphthylene	82	U	82	40
120-12-7	Anthracene	82	U	82	40
56-55-3	Benzo[a]anthracene	310		82	40
50-32-8	Benzo[a]pyrene	320		82	15
205-99-2	Benzo[b]fluoranthene	610		82	40
191-24-2	Benzo[g,h,i]perylene	280		82	40
207-08-9	Benzo[k]fluoranthene	180		82	24
218-01-9	Chrysene	440		82	40
53-70-3	Dibenz(a,h)anthracene	110		82	40
206-44-0	Fluoranthene	380		82	40
86-73-7	Fluorene	82	U	82	40
193-39-5	Indeno[1,2,3-cd]pyrene	220		82	40
90-12-0	1-Methylnaphthalene	110		82	38
91-57-6	2-Methylnaphthalene	140		82	40
91-20-3	Naphthalene	130		82	40
85-01-8	Phenanthrene	260		82	29
129-00-0	Pyrene	420		82	40

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\CMSK\20141119-14922.b\2KK1923.D
Lims ID: 680-107310-A-3-A Lab Sample ID: 680-107310-3
Client ID: CV1063A-CS0-4"
Sample Type: Client
Inject. Date: 19-Nov-2014 20:25:30 ALS Bottle#: 23 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 680-107310-A-3-A 1:10
Misc. Info.: 680-0014922-023
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:35 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 20-Nov-2014 08:21:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.120	3.114	0.006	99	785039	2.00	
* 2 Acenaphthene-d10	164	4.812	4.806	0.006	93	429521	2.00	
* 3 Phenanthrene-d10	188	6.369	6.363	0.006	99	693794	2.00	
* 4 Chrysene-d12	240	9.201	9.196	0.005	99	509836	2.00	
* 5 Perylene-d12	264	10.529	10.518	0.011	99	341908	2.00	
7 Naphthalene	128	3.138	3.138	0.000	99	140069	0.3182	
9 2-Methylnaphthalene	142	3.778	3.778	0.000	85	92324	0.3444	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	92	65363	0.2679	
15 Phenanthrene	178	6.393	6.393	0.000	98	268431	0.6401	
16 Anthracene	178	6.446	6.446	0.000	96	30823	0.0723	
17 Fluoranthene	202	7.680	7.674	0.006	97	412491	0.9371	
18 Pyrene	202	7.915	7.909	0.006	97	365175	1.02	
19 Benzo[a]anthracene	228	9.190	9.190	0.000	98	218540	0.7677	
20 Chrysene	228	9.225	9.225	0.000	99	286976	1.07	
21 Benzo[b]fluoranthene	252	10.206	10.200	0.006	98	329753	1.50	M
22 Benzo[k]fluoranthene	252	10.230	10.224	0.006	98	101479	0.4474	M
23 Benzo[a]pyrene	252	10.476	10.471	0.006	97	145793	0.7924	
24 Indeno[1,2,3-cd]pyrene	276	11.410	11.399	0.011	99	98876	0.5393	
25 Dibenz(a,h)anthracene	278	11.428	11.422	0.006	93	34136	0.2705	
26 Benzo[g,h,i]perylene	276	11.651	11.634	0.017	98	97688	0.6801	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

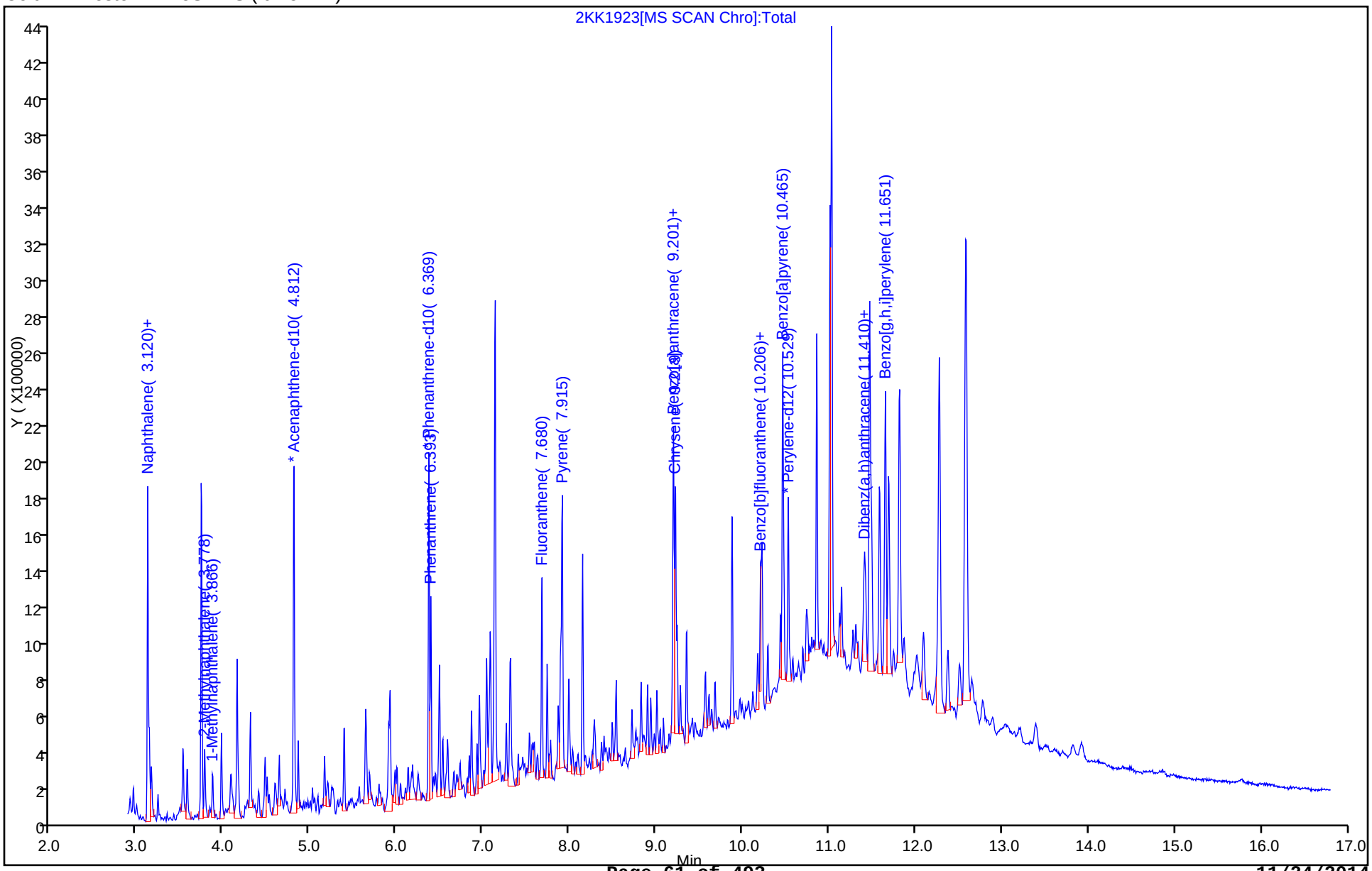
SM-LLISTD_00114 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 20-Nov-2014 10:09:38 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1923.D				
Injection Date:	19-Nov-2014 20:25:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-107310-A-3-A	Lab Sample ID:	680-107310-3	Worklist Smp#:	23
Client ID:	CV1063A-CS0-4"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	23
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

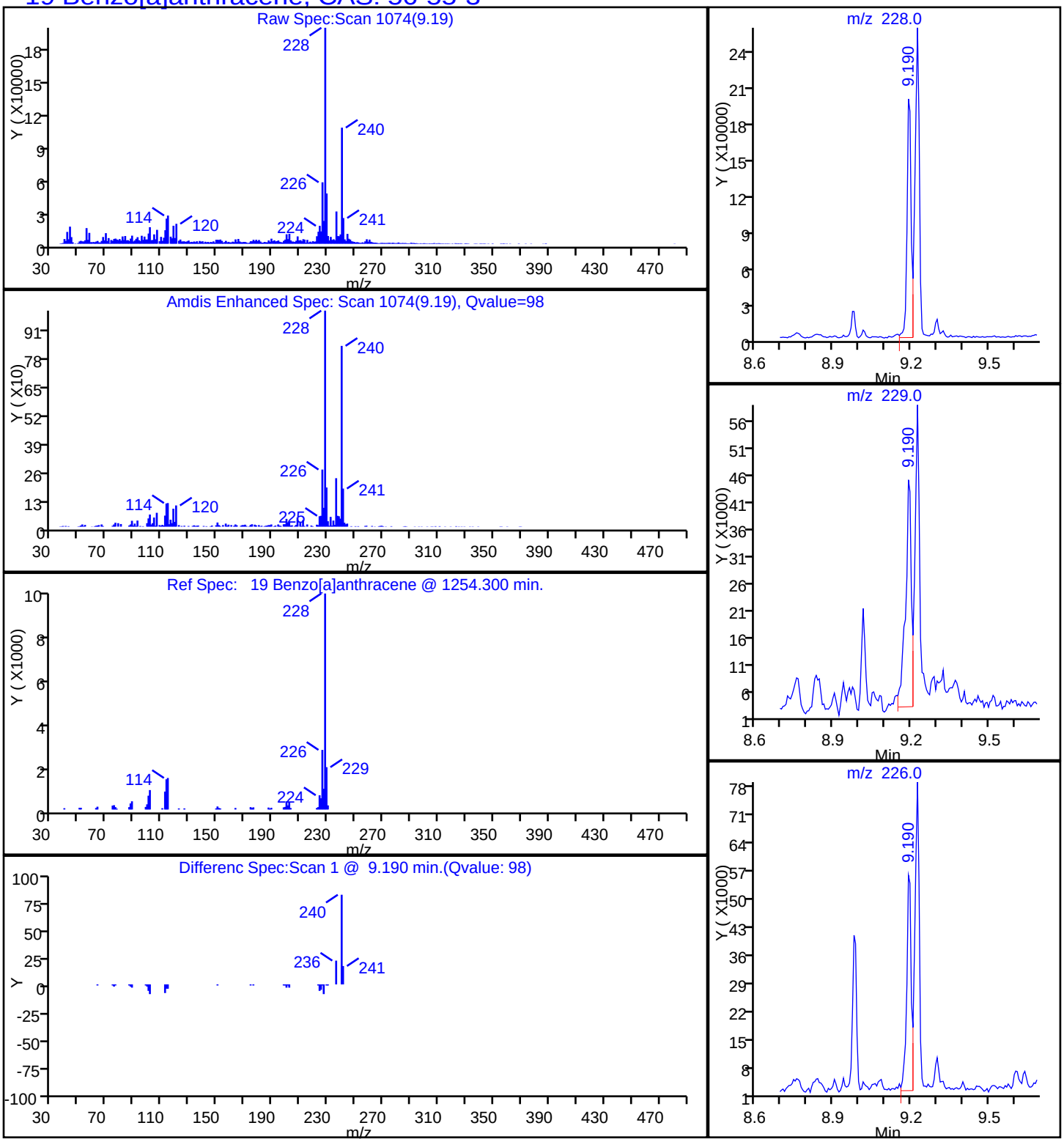


Report Date: 20-Nov-2014 10:09:38 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1923.D				
Injection Date:	19-Nov-2014 20:25:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-3-A	Lab Sample ID:	680-107310-3		
Client ID:	CV1063A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

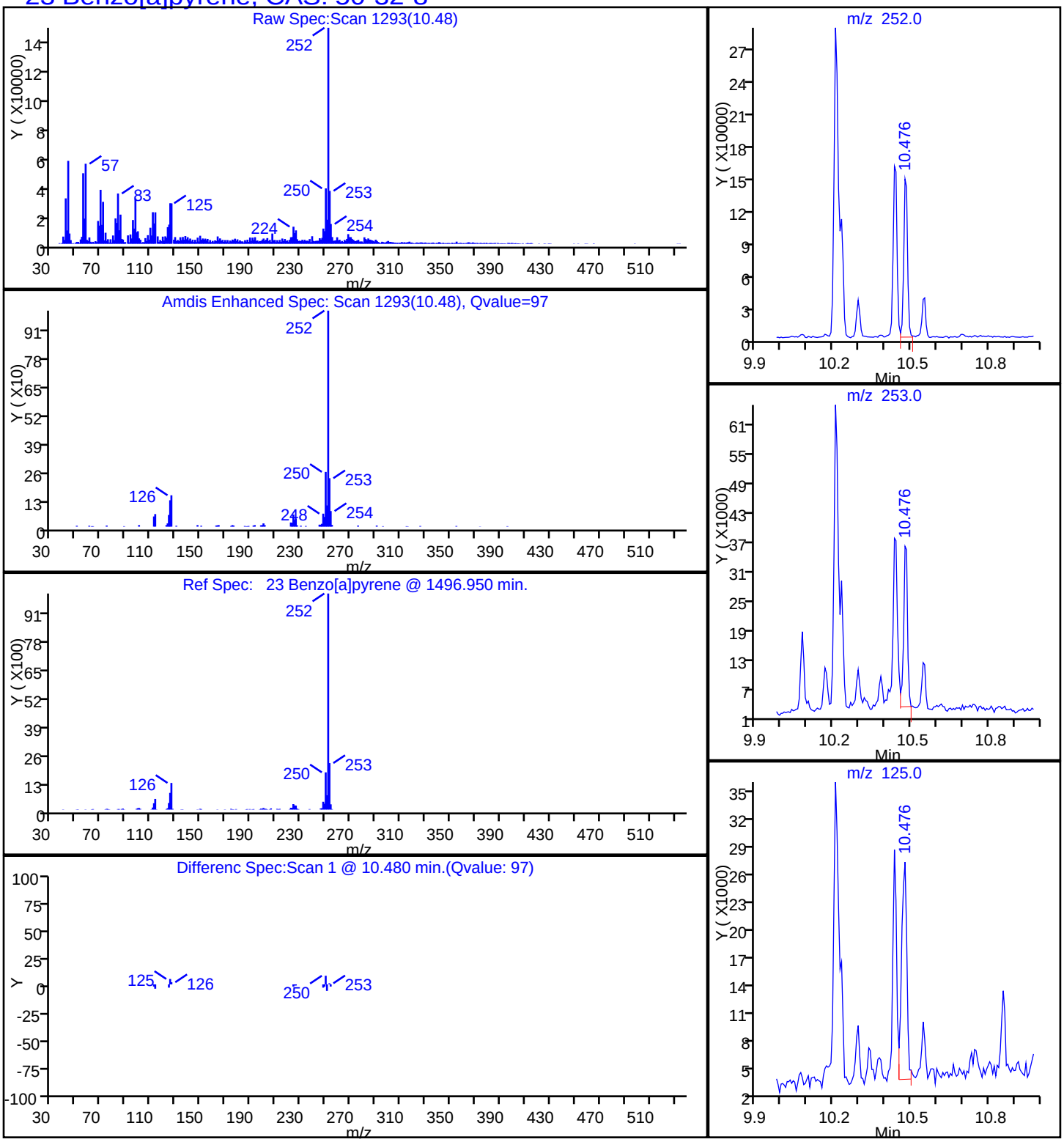


Report Date: 20-Nov-2014 10:09:38 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1923.D				
Injection Date:	19-Nov-2014 20:25:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-3-A	Lab Sample ID:	680-107310-3		
Client ID:	CV1063A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

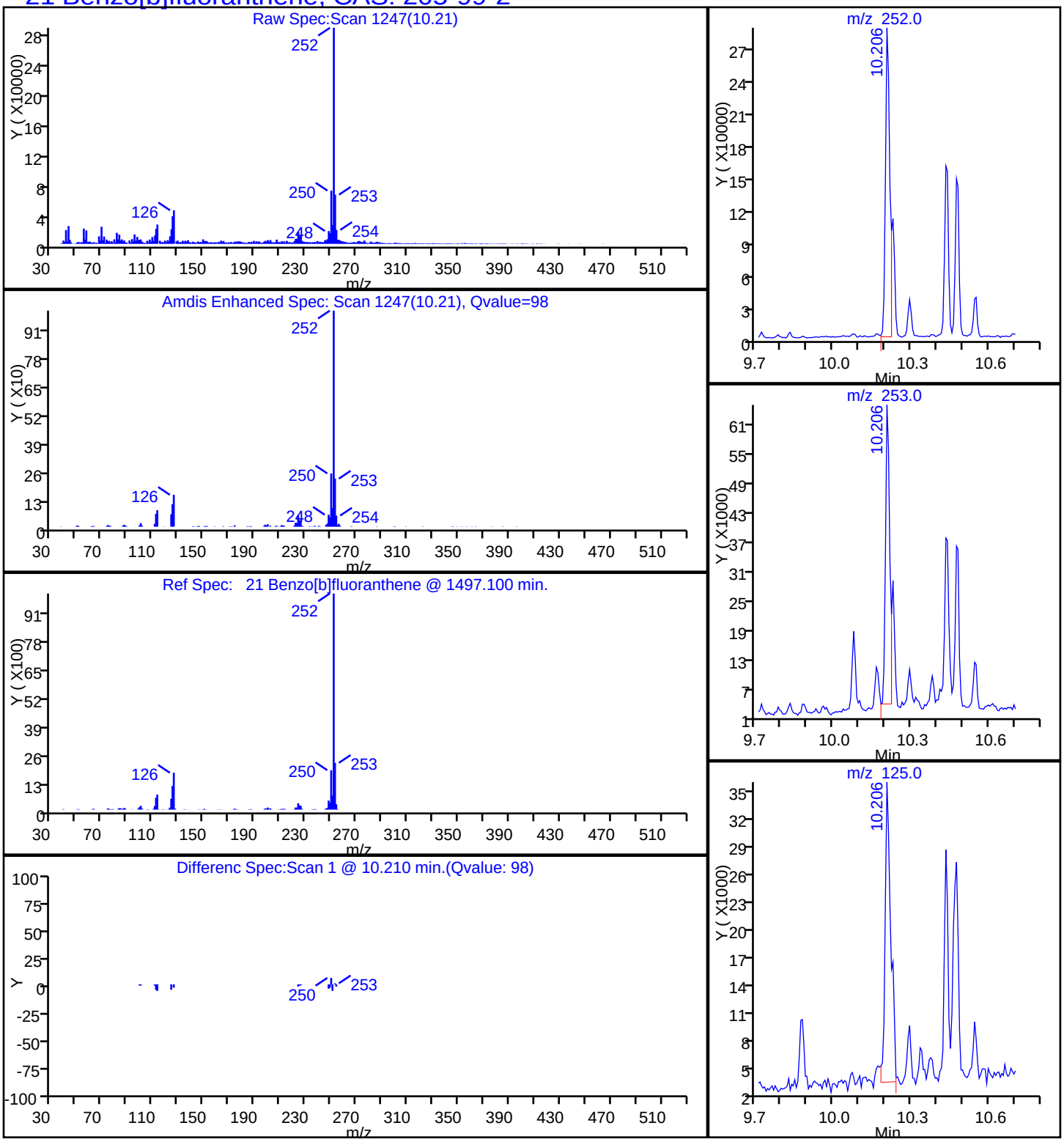


Report Date: 20-Nov-2014 10:09:38 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1923.D				
Injection Date:	19-Nov-2014 20:25:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-3-A	Lab Sample ID:	680-107310-3		
Client ID:	CV1063A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

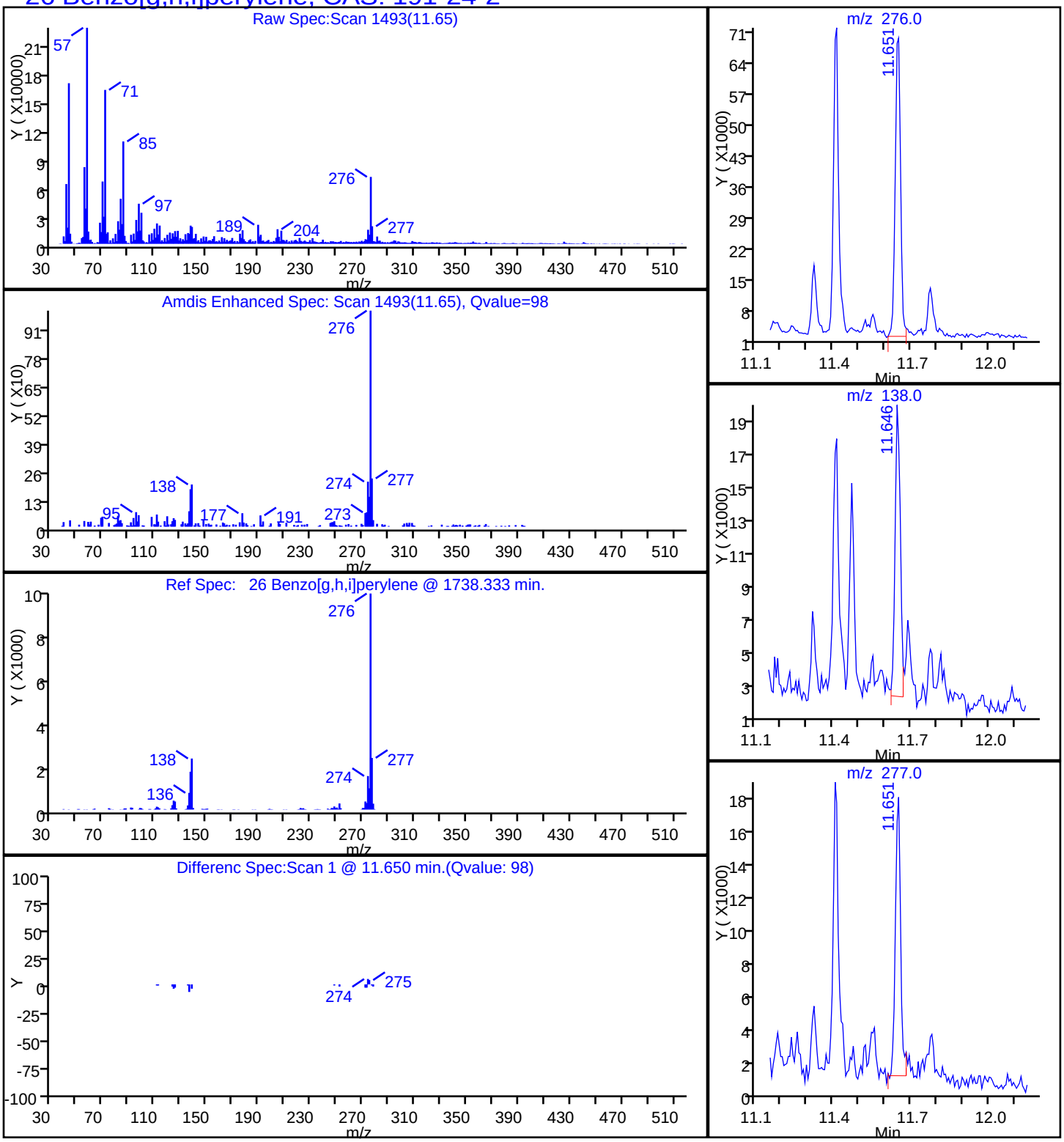


Report Date: 20-Nov-2014 10:09:38 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1923.D				
Injection Date:	19-Nov-2014 20:25:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-3-A	Lab Sample ID:	680-107310-3		
Client ID:	CV1063A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

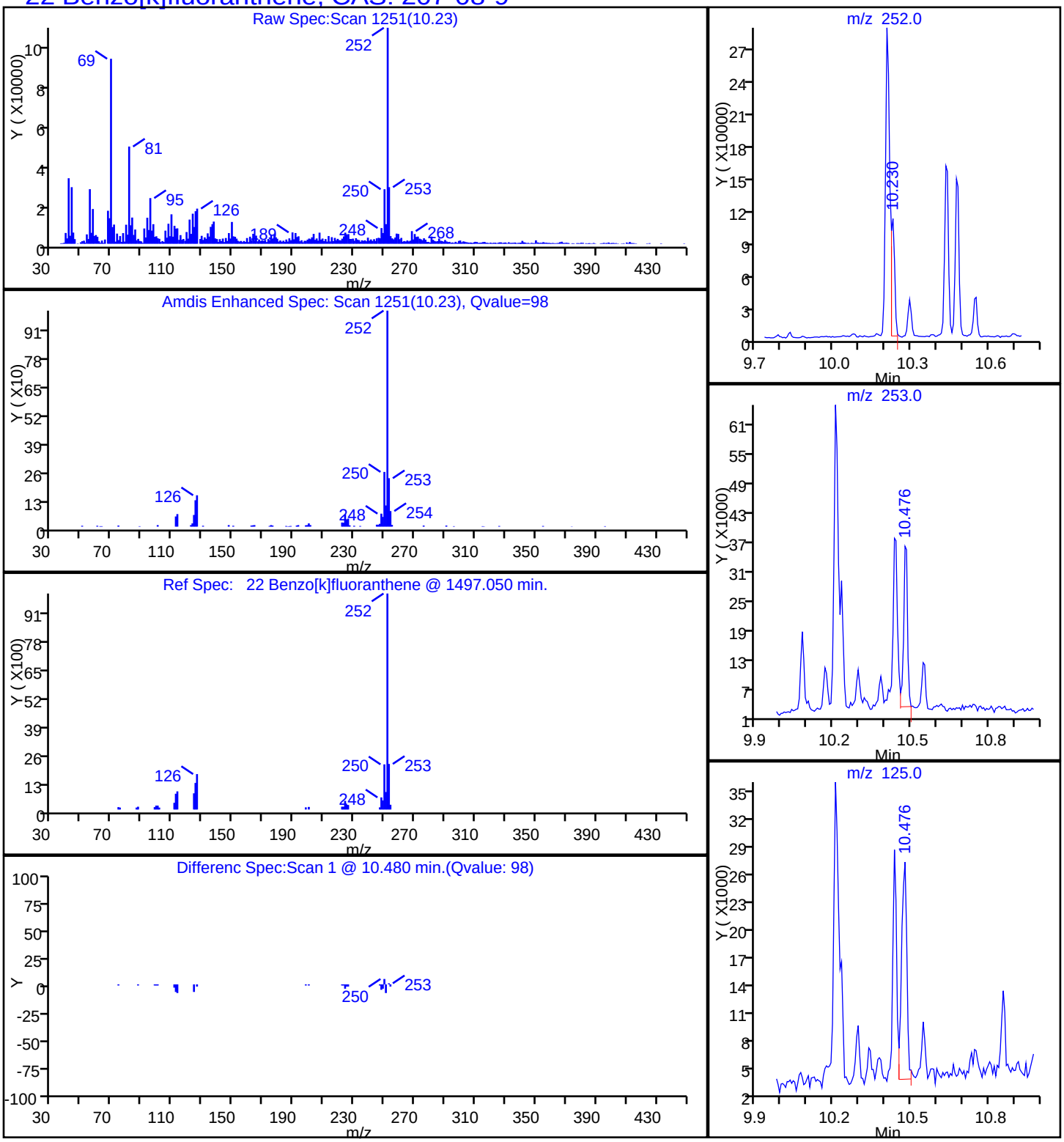


Report Date: 20-Nov-2014 10:09:38 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1923.D				
Injection Date:	19-Nov-2014 20:25:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-3-A	Lab Sample ID:	680-107310-3		
Client ID:	CV1063A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

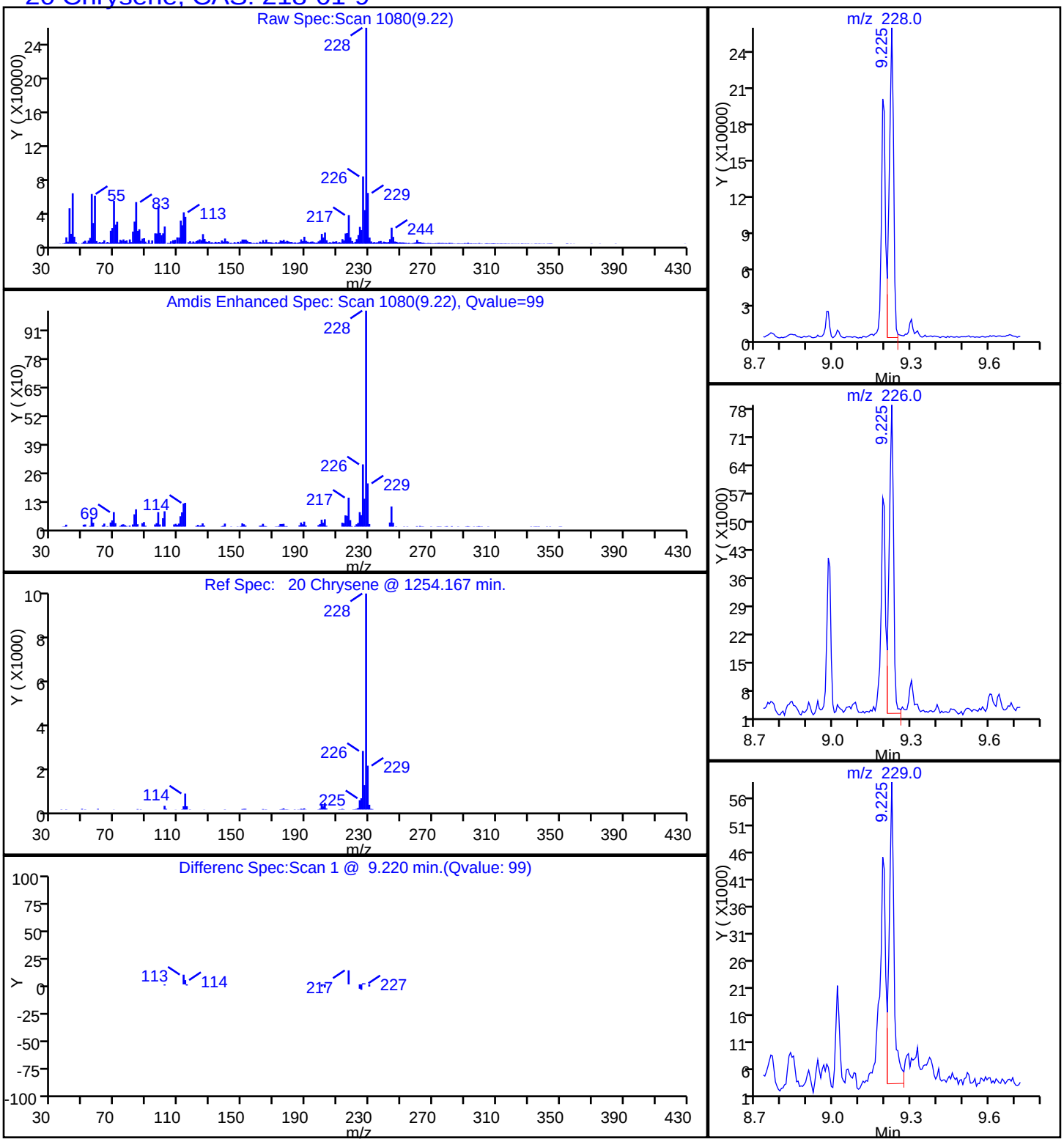


Report Date: 20-Nov-2014 10:09:38 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1923.D				
Injection Date:	19-Nov-2014 20:25:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-3-A	Lab Sample ID:	680-107310-3		
Client ID:	CV1063A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Chrysene, CAS: 218-01-9

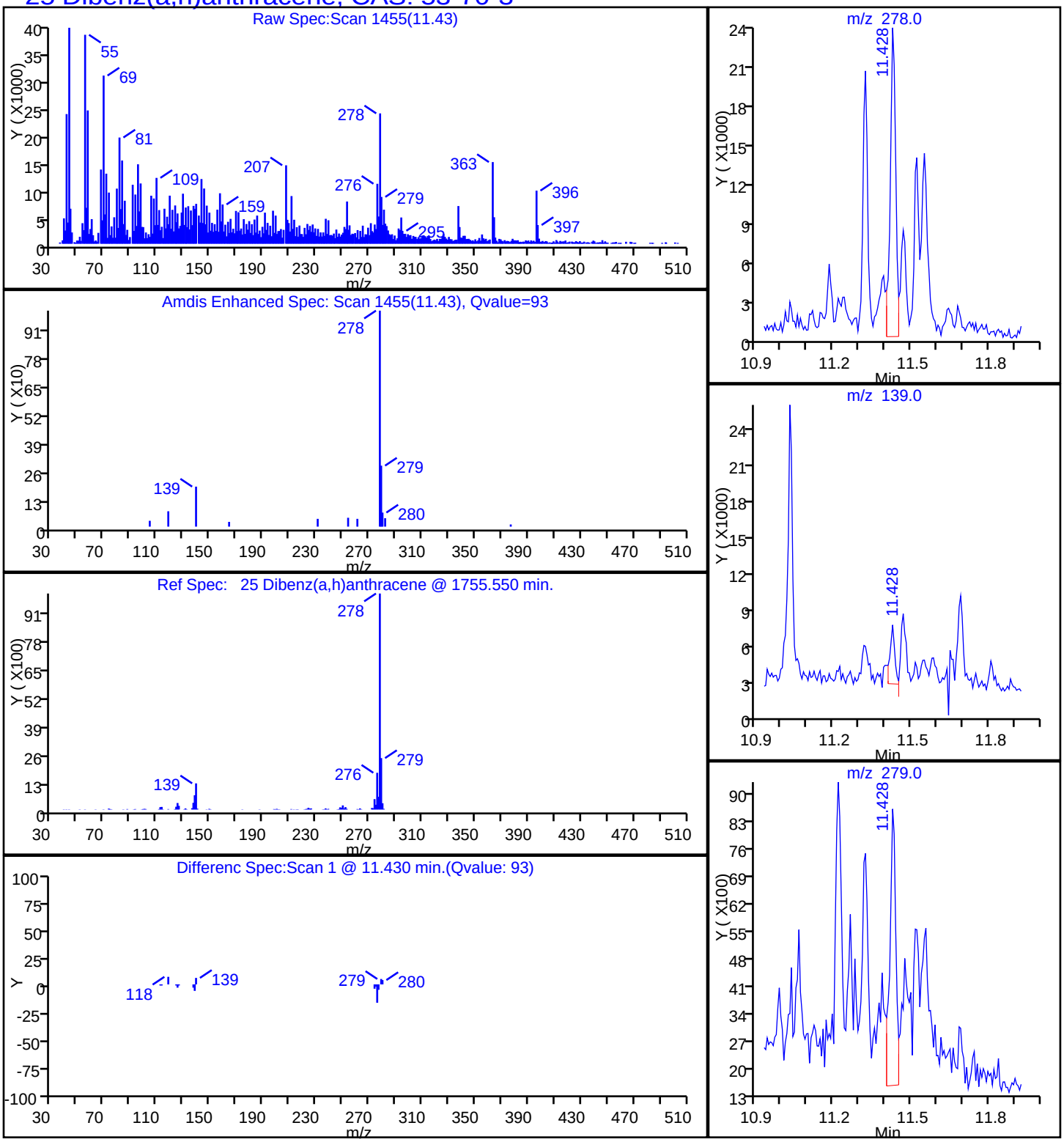


Report Date: 20-Nov-2014 10:09:38 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1923.D				
Injection Date:	19-Nov-2014 20:25:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-3-A	Lab Sample ID:	680-107310-3		
Client ID:	CV1063A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

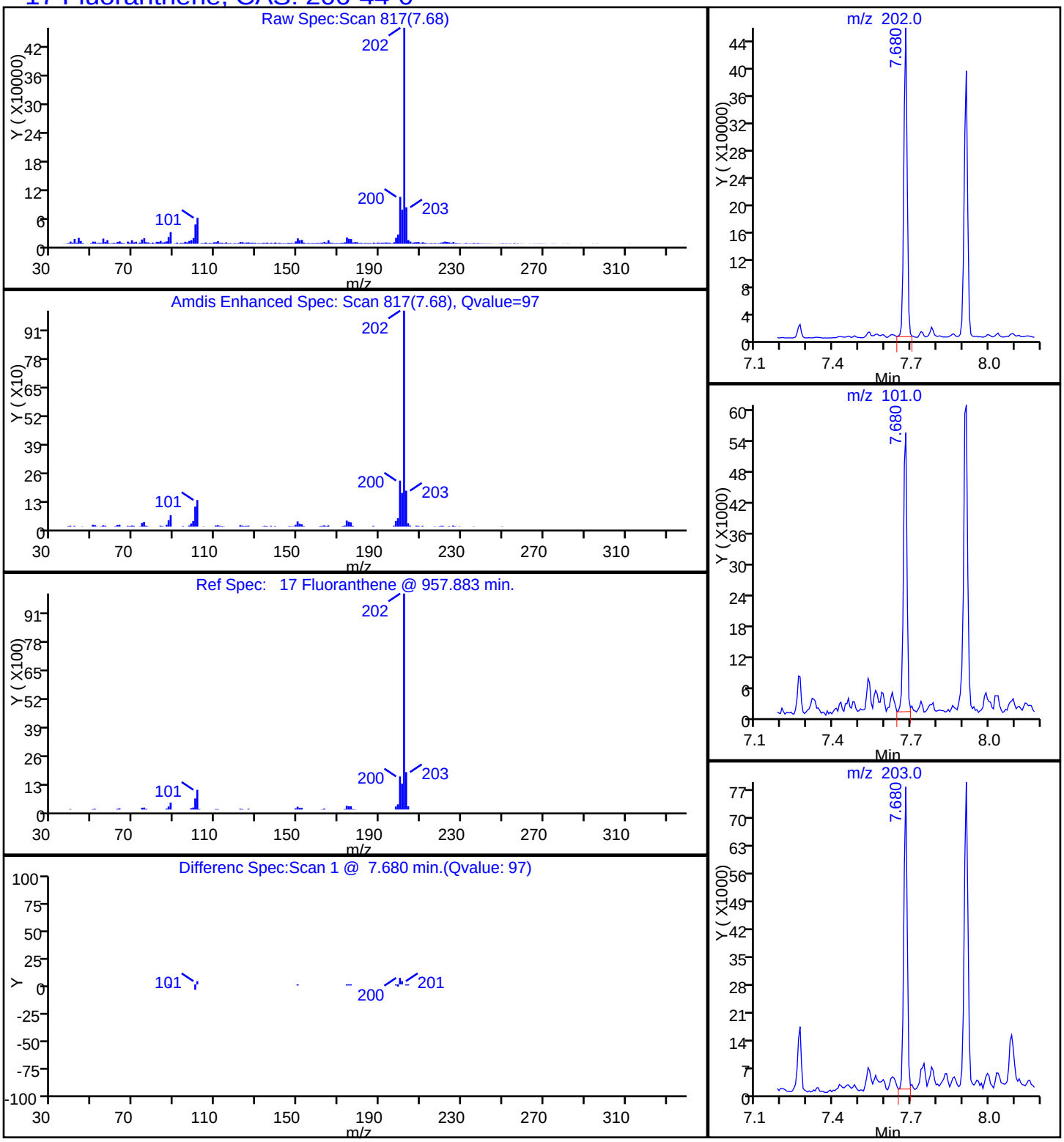


Report Date: 20-Nov-2014 10:09:38 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1923.D				
Injection Date:	19-Nov-2014 20:25:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-3-A	Lab Sample ID:	680-107310-3		
Client ID:	CV1063A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 Fluoranthene, CAS: 206-44-0

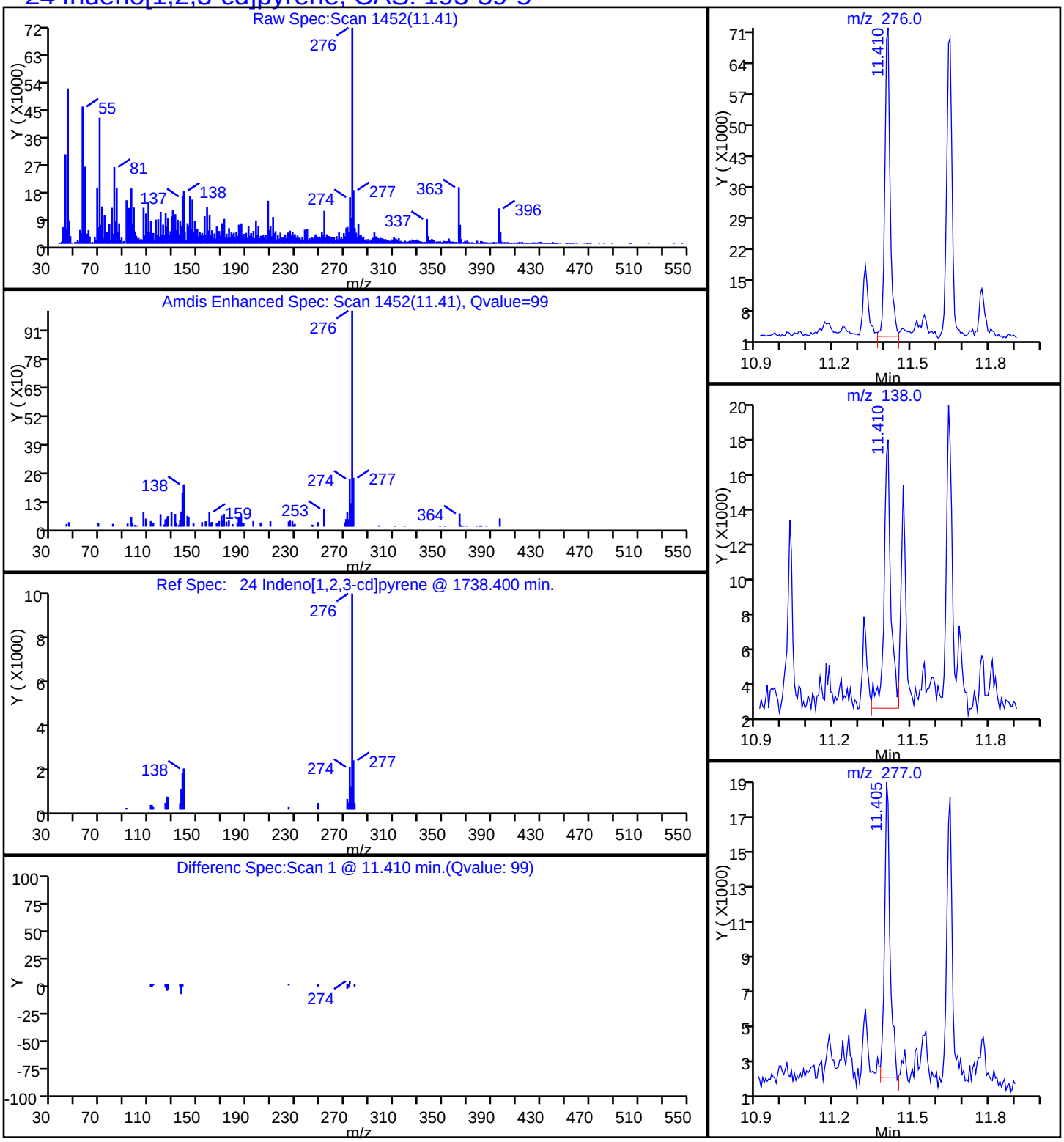


Report Date: 20-Nov-2014 10:09:38 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1923.D				
Injection Date:	19-Nov-2014 20:25:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-3-A	Lab Sample ID:	680-107310-3		
Client ID:	CV1063A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

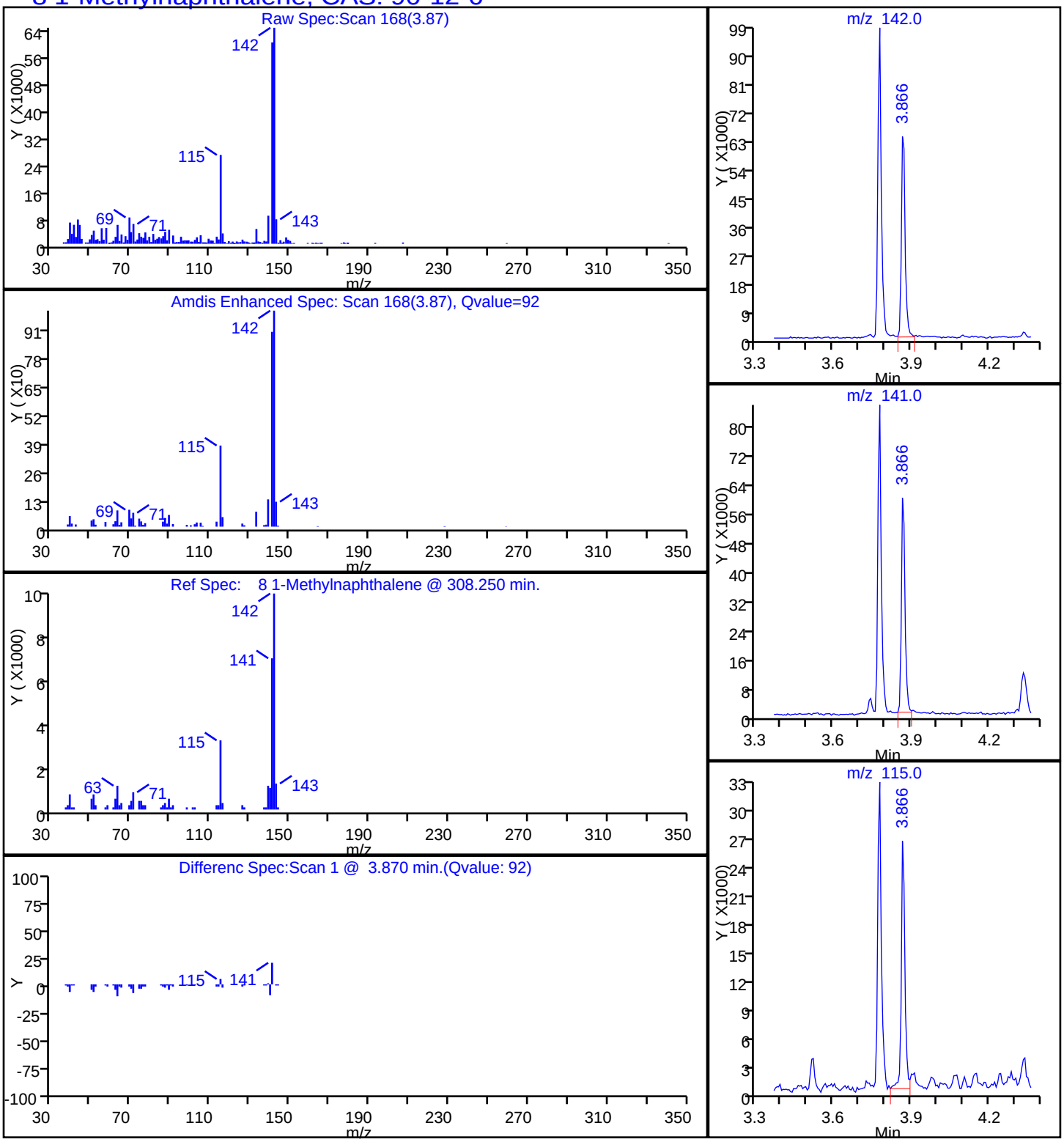


Report Date: 20-Nov-2014 10:09:38 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1923.D				
Injection Date:	19-Nov-2014 20:25:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-3-A	Lab Sample ID:	680-107310-3		
Client ID:	CV1063A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

8 1-Methylnaphthalene, CAS: 90-12-0

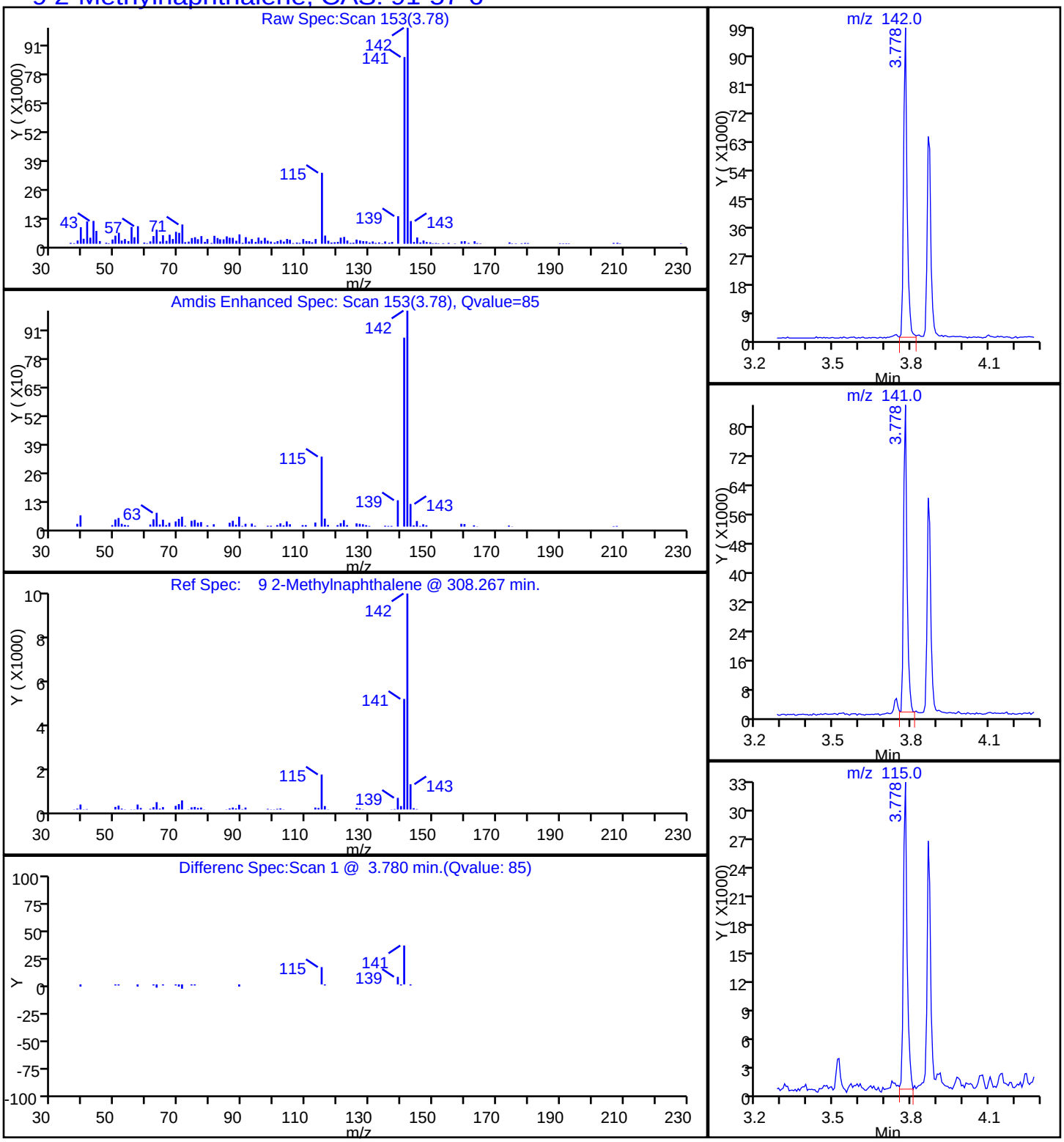


Report Date: 20-Nov-2014 10:09:38 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1923.D				
Injection Date:	19-Nov-2014 20:25:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-3-A	Lab Sample ID:	680-107310-3		
Client ID:	CV1063A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

9 2-Methylnaphthalene, CAS: 91-57-6

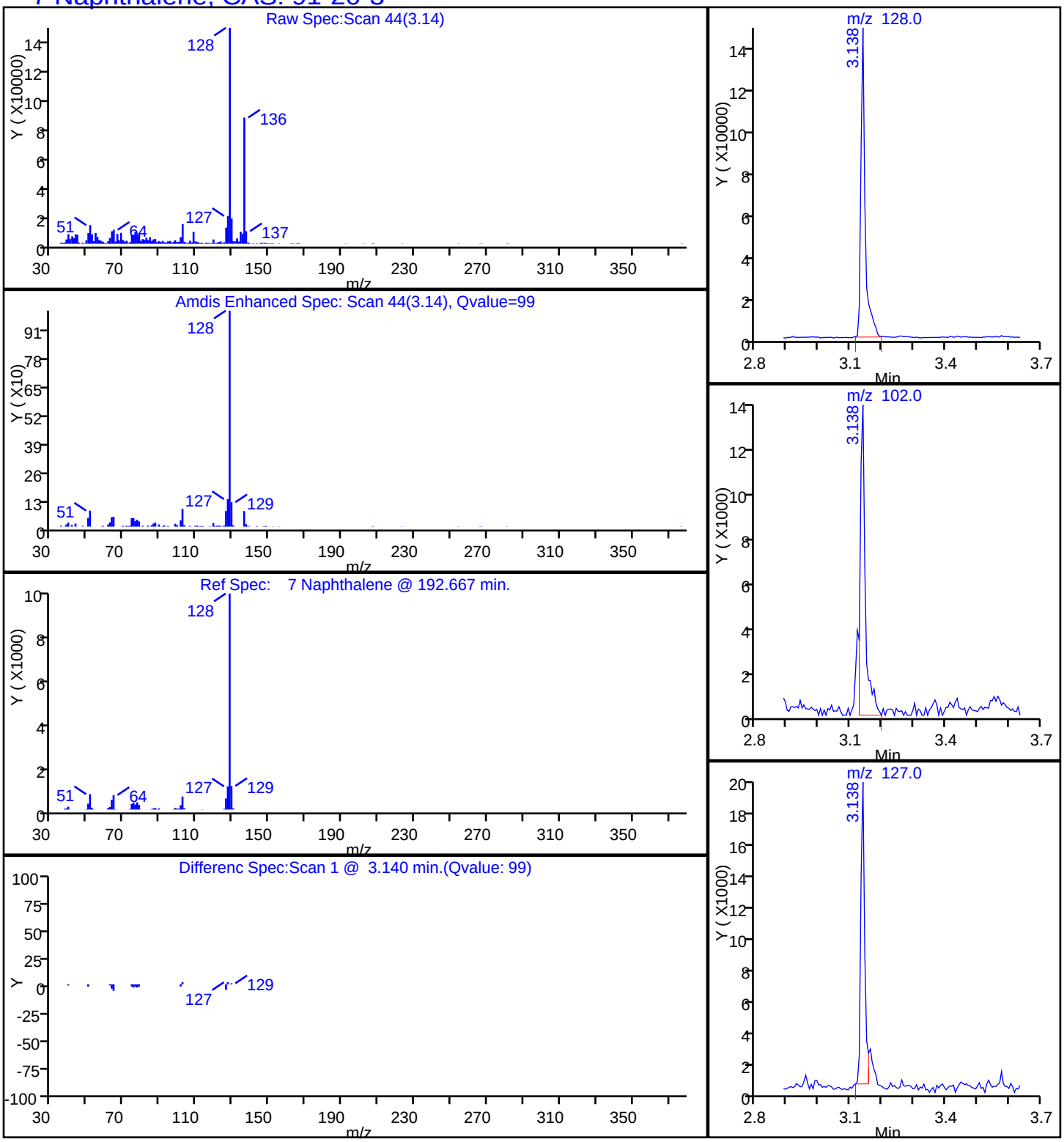


Report Date: 20-Nov-2014 10:09:38 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1923.D				
Injection Date:	19-Nov-2014 20:25:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-3-A	Lab Sample ID:	680-107310-3		
Client ID:	CV1063A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

7 Naphthalene, CAS: 91-20-3

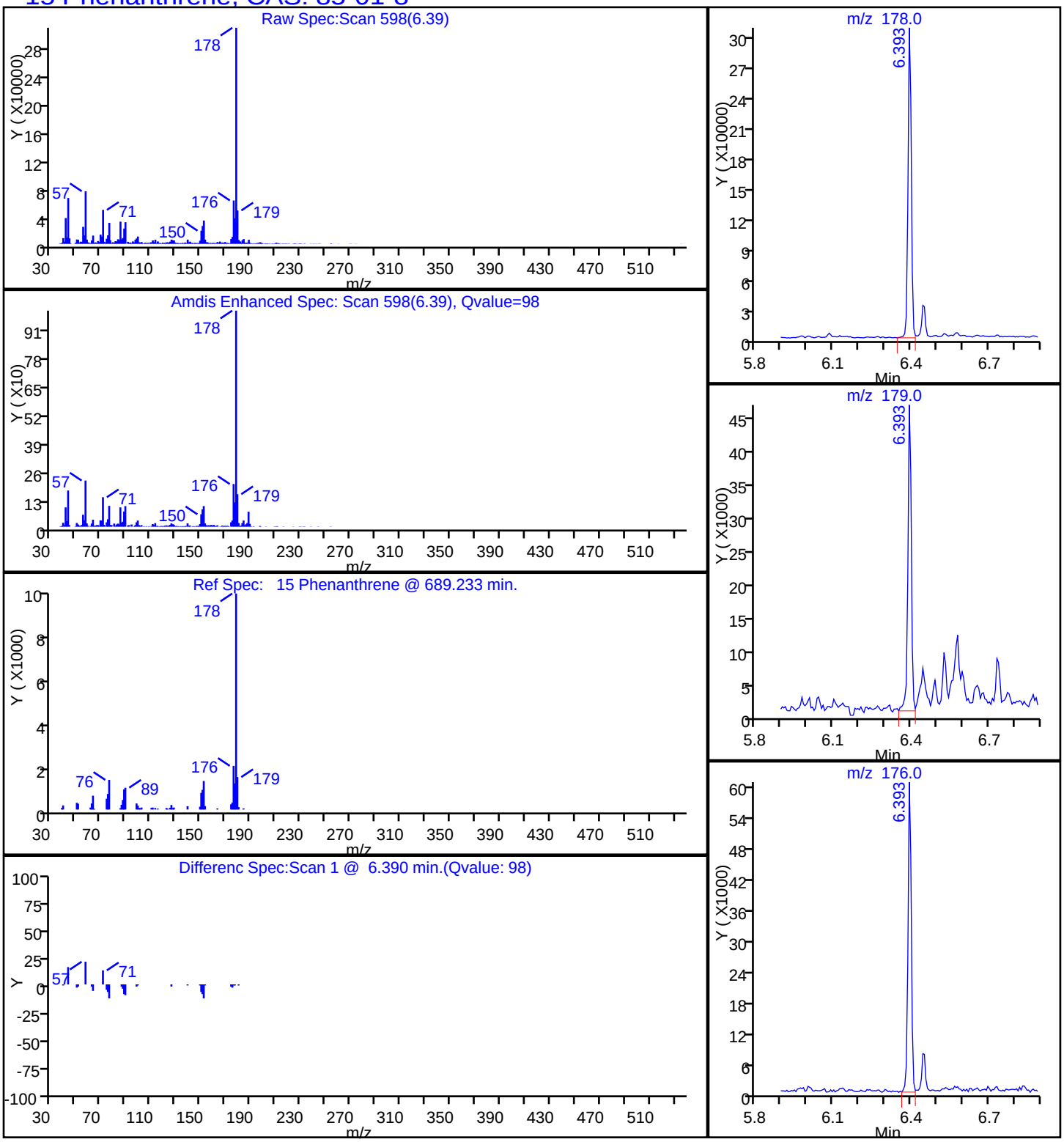


Report Date: 20-Nov-2014 10:09:38 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1923.D				
Injection Date:	19-Nov-2014 20:25:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-3-A	Lab Sample ID:	680-107310-3		
Client ID:	CV1063A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

15 Phenanthrene, CAS: 85-01-8

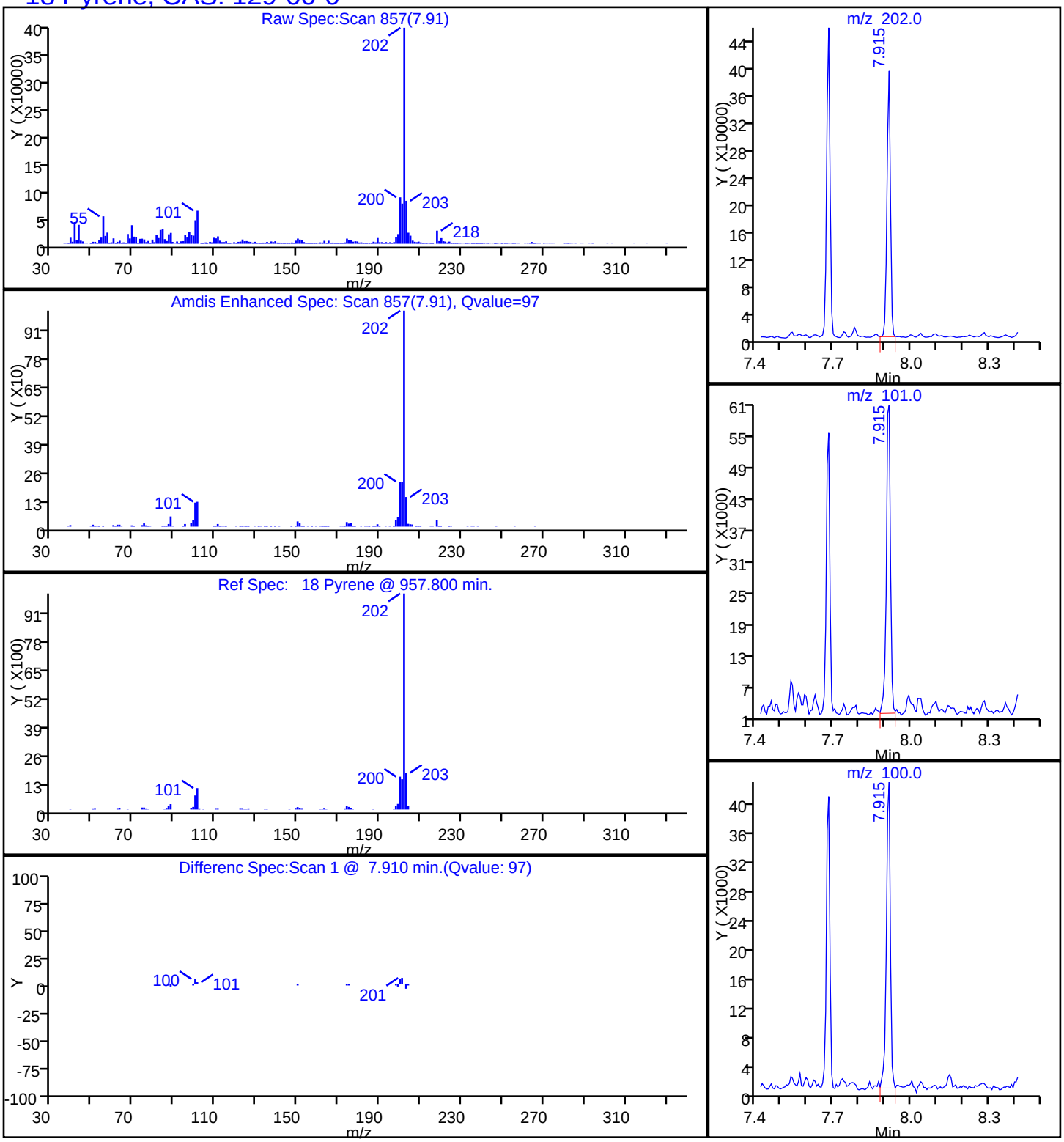


Report Date: 20-Nov-2014 10:09:38 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1923.D				
Injection Date:	19-Nov-2014 20:25:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-3-A	Lab Sample ID:	680-107310-3		
Client ID:	CV1063A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

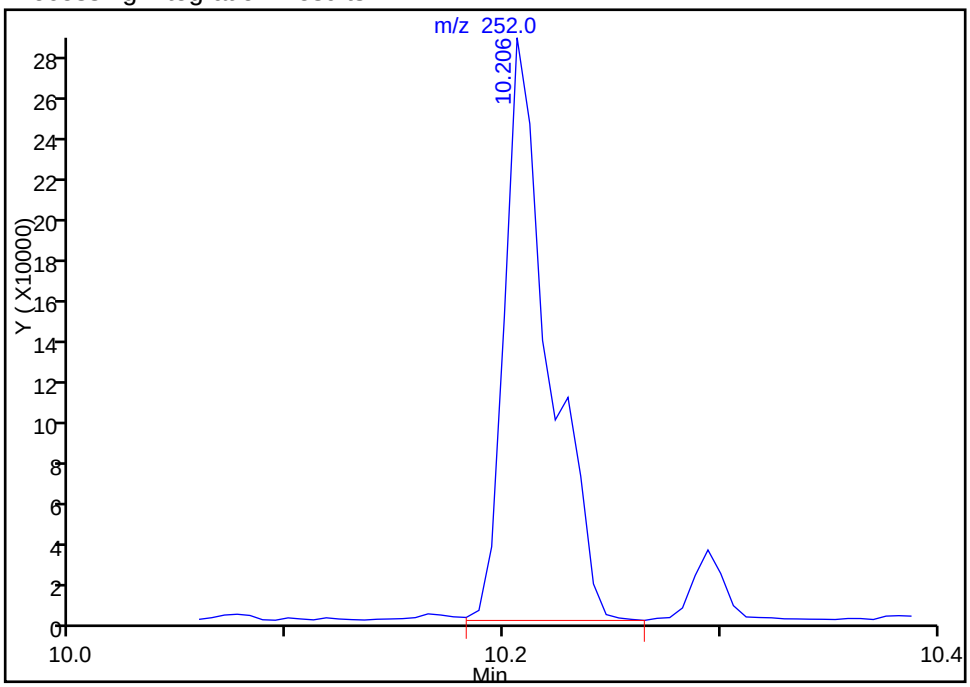
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1923.D				
Injection Date:	19-Nov-2014 20:25:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-3-A	Lab Sample ID:	680-107310-3		
Client ID:	CV1063A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

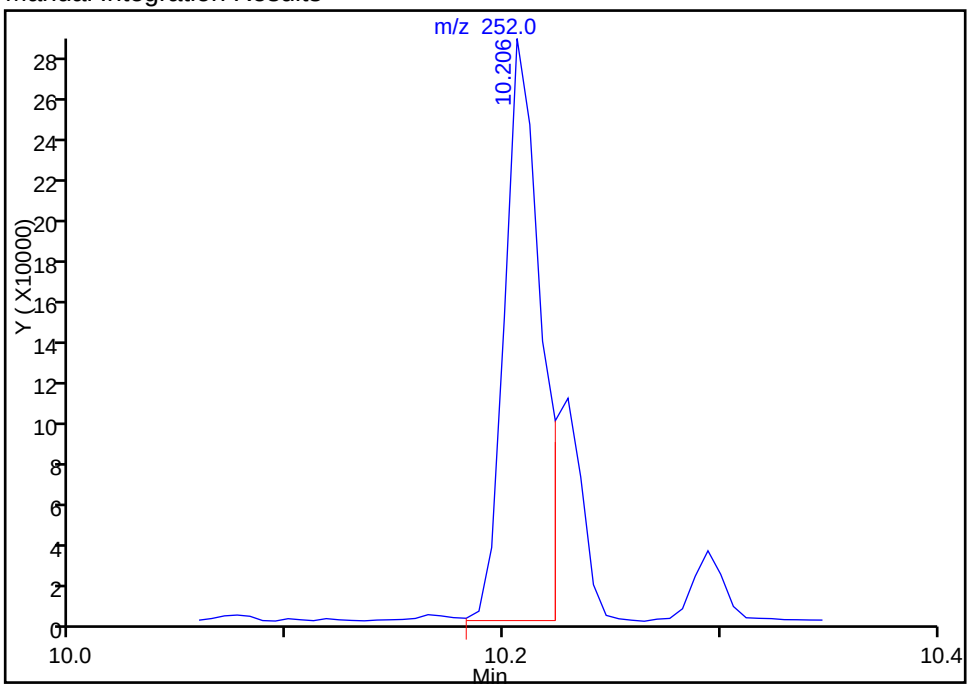
Processing Integration Results

RT: 10.21
Response: 400591
Amount: 1.795208



Manual Integration Results

RT: 10.21
Response: 329753
Amount: 1.501669



Reviewer: webbk, 20-Nov-2014 08:21:57
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

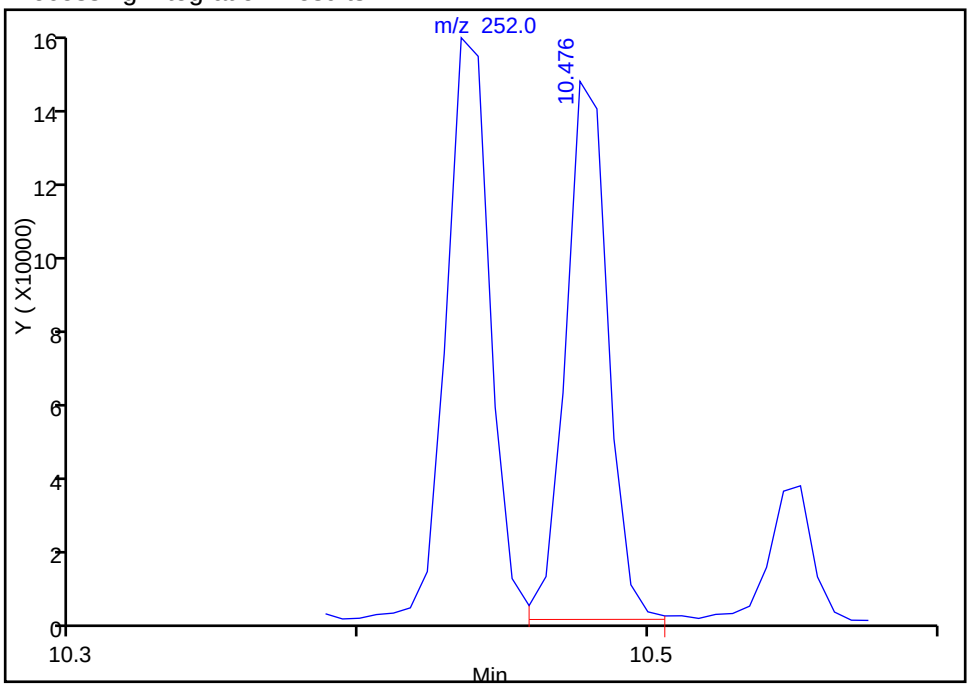
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1923.D				
Injection Date:	19-Nov-2014 20:25:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-3-A	Lab Sample ID:	680-107310-3		
Client ID:	CV1063A-CS0-4"				
Operator ID:	RM	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

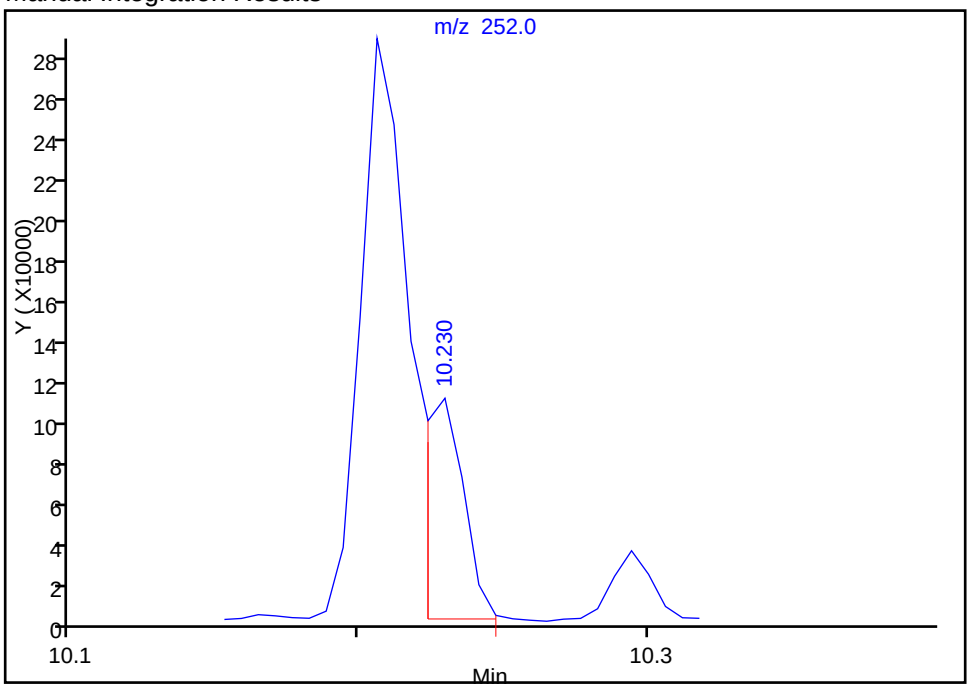
Processing Integration Results

RT: 10.48
Response: 145793
Amount: 0.642711



Manual Integration Results

RT: 10.23
Response: 101479
Amount: 0.447358



Reviewer: webbk, 20-Nov-2014 08:21:57
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107310-1

SDG No.: 680-107310-1

Client Sample ID: CV1063A-CSD0-4'' | Lab Sample ID: 680-107310-4

Matrix: Solid | Lab File ID: 2KK1924.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/13/2014 11:10

Extract. Method: 3546 | Date Extracted: 11/17/2014 12:45

Sample wt/vol: 29.99(g) | Date Analyzed: 11/19/2014 20:48

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

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

% Moisture: 17.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359503 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	81	U	81	40
208-96-8	Acenaphthylene	81	U	81	40
120-12-7	Anthracene	81	U	81	40
56-55-3	Benzo[a]anthracene	270		81	40
50-32-8	Benzo[a]pyrene	280		81	15
205-99-2	Benzo[b]fluoranthene	520		81	40
191-24-2	Benzo[g,h,i]perylene	230		81	40
207-08-9	Benzo[k]fluoranthene	160		81	24
218-01-9	Chrysene	390		81	40
53-70-3	Dibenz(a,h)anthracene	85		81	40
206-44-0	Fluoranthene	380		81	40
86-73-7	Fluorene	81	U	81	40
193-39-5	Indeno[1,2,3-cd]pyrene	210		81	40
90-12-0	1-Methylnaphthalene	110		81	38
91-57-6	2-Methylnaphthalene	130		81	40
91-20-3	Naphthalene	130		81	40
85-01-8	Phenanthrene	260		81	29
129-00-0	Pyrene	340		81	40

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\CMSK\20141119-14922.b\2KK1924.D
Lims ID: 680-107310-A-4-A Lab Sample ID: 680-107310-4
Client ID: CV1063A-CSD0-4"
Sample Type: Client
Inject. Date: 19-Nov-2014 20:48:30 ALS Bottle#: 24 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 680-107310-A-4-A 1:10
Misc. Info.: 680-0014922-024
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:35 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 20-Nov-2014 08:23:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.120	3.114	0.006	100	708116	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	92	399016	2.00	
* 3 Phenanthrene-d10	188	6.369	6.363	0.006	99	652621	2.00	
* 4 Chrysene-d12	240	9.201	9.196	0.005	99	589749	2.00	
* 5 Perylene-d12	264	10.529	10.518	0.011	99	465297	2.00	
7 Naphthalene	128	3.132	3.138	-0.006	98	126078	0.3176	
9 2-Methylnaphthalene	142	3.778	3.778	0.000	84	78841	0.3261	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	92	58264	0.2647	
15 Phenanthrene	178	6.393	6.393	0.000	98	250009	0.6338	
16 Anthracene	178	6.446	6.446	0.000	96	33529	0.0836	
17 Fluoranthene	202	7.680	7.674	0.006	97	389746	0.9413	
18 Pyrene	202	7.915	7.909	0.006	96	350686	0.8498	
19 Benzo[a]anthracene	228	9.190	9.190	0.000	99	222946	0.6771	
20 Chrysene	228	9.225	9.225	0.000	98	300314	0.9703	
21 Benzo[b]fluoranthene	252	10.206	10.200	0.006	98	380600	1.28	M
22 Benzo[k]fluoranthene	252	10.230	10.224	0.006	98	123452	0.3999	M
23 Benzo[a]pyrene	252	10.482	10.471	0.012	97	172291	0.6888	
24 Indeno[1,2,3-cd]pyrene	276	11.411	11.399	0.012	99	110304	0.5201	
25 Dibenz(a,h)anthracene	278	11.434	11.422	0.012	93	36262	0.2113	
26 Benzo[g,h,i]perylene	276	11.652	11.634	0.018	97	112243	0.5742	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

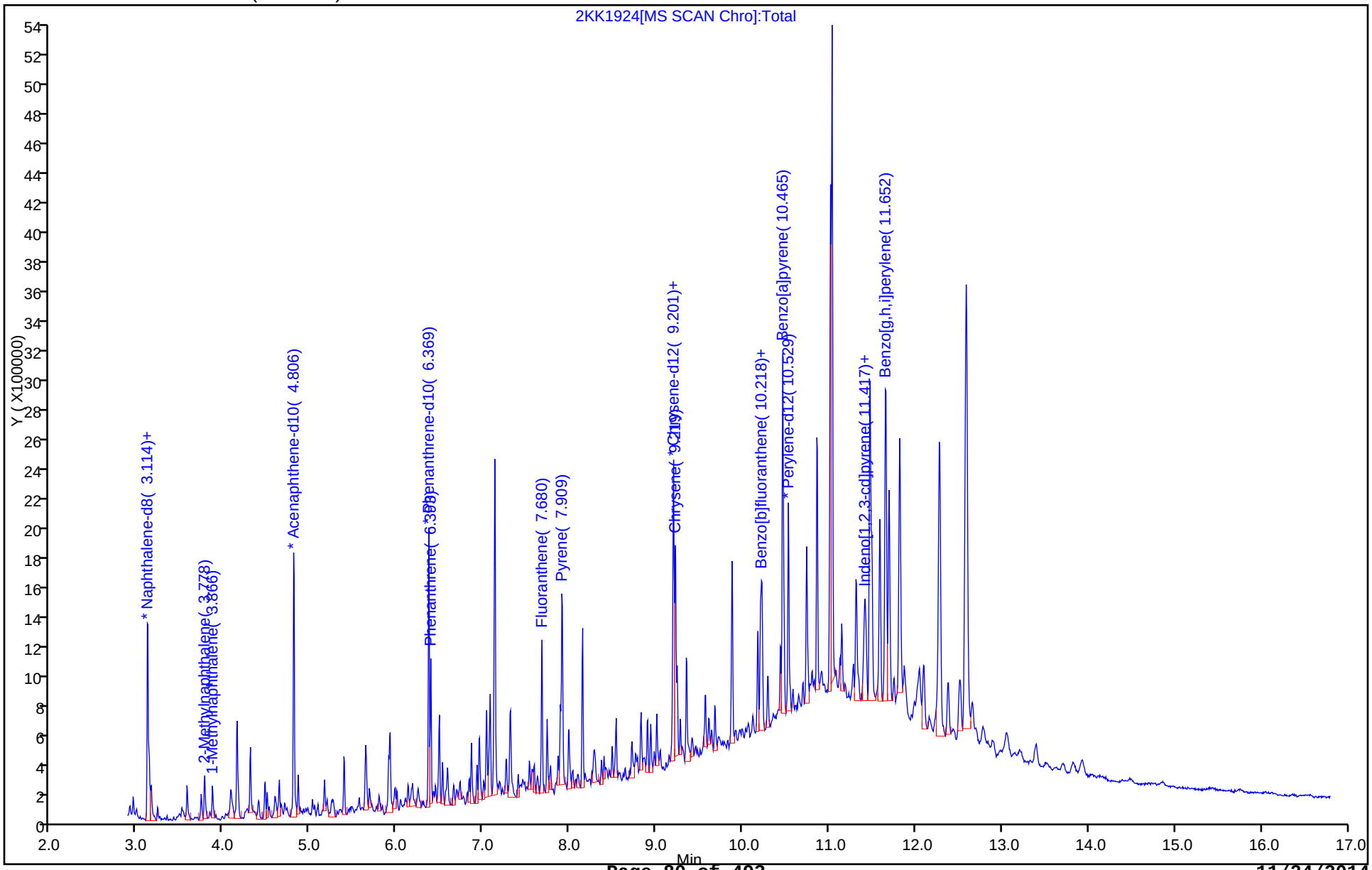
SM-LLISTD_00114 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 20-Nov-2014 10:09:55 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1924.D				
Injection Date:	19-Nov-2014 20:48:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-107310-A-4-A	Lab Sample ID:	680-107310-4	Worklist Smp#:	24
Client ID:	CV1063A-CSD0-4"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	24
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

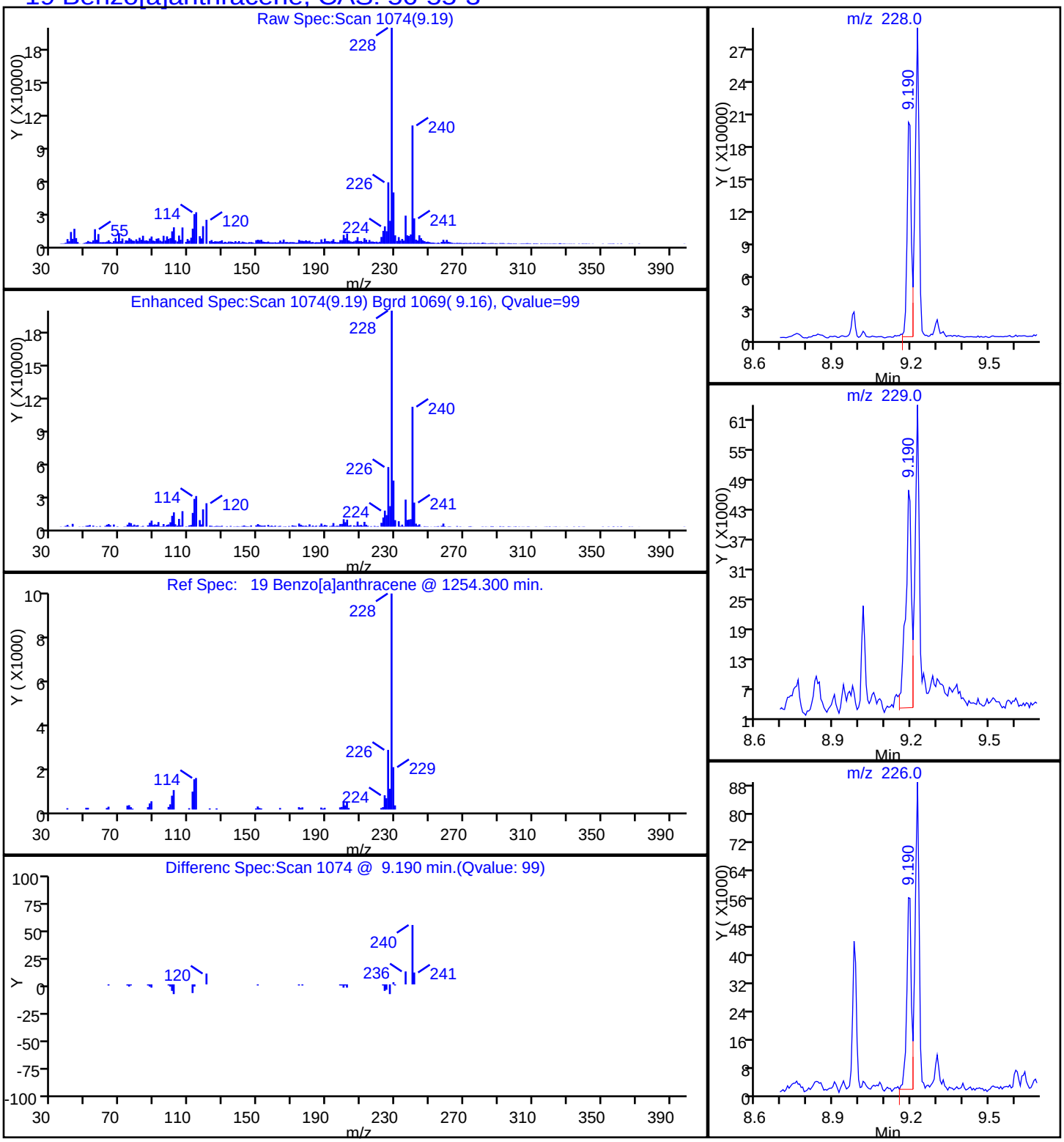


Report Date: 20-Nov-2014 10:09:55 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1924.D				
Injection Date:	19-Nov-2014 20:48:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-4-A	Lab Sample ID:	680-107310-4		
Client ID:	CV1063A-CSD0-4"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

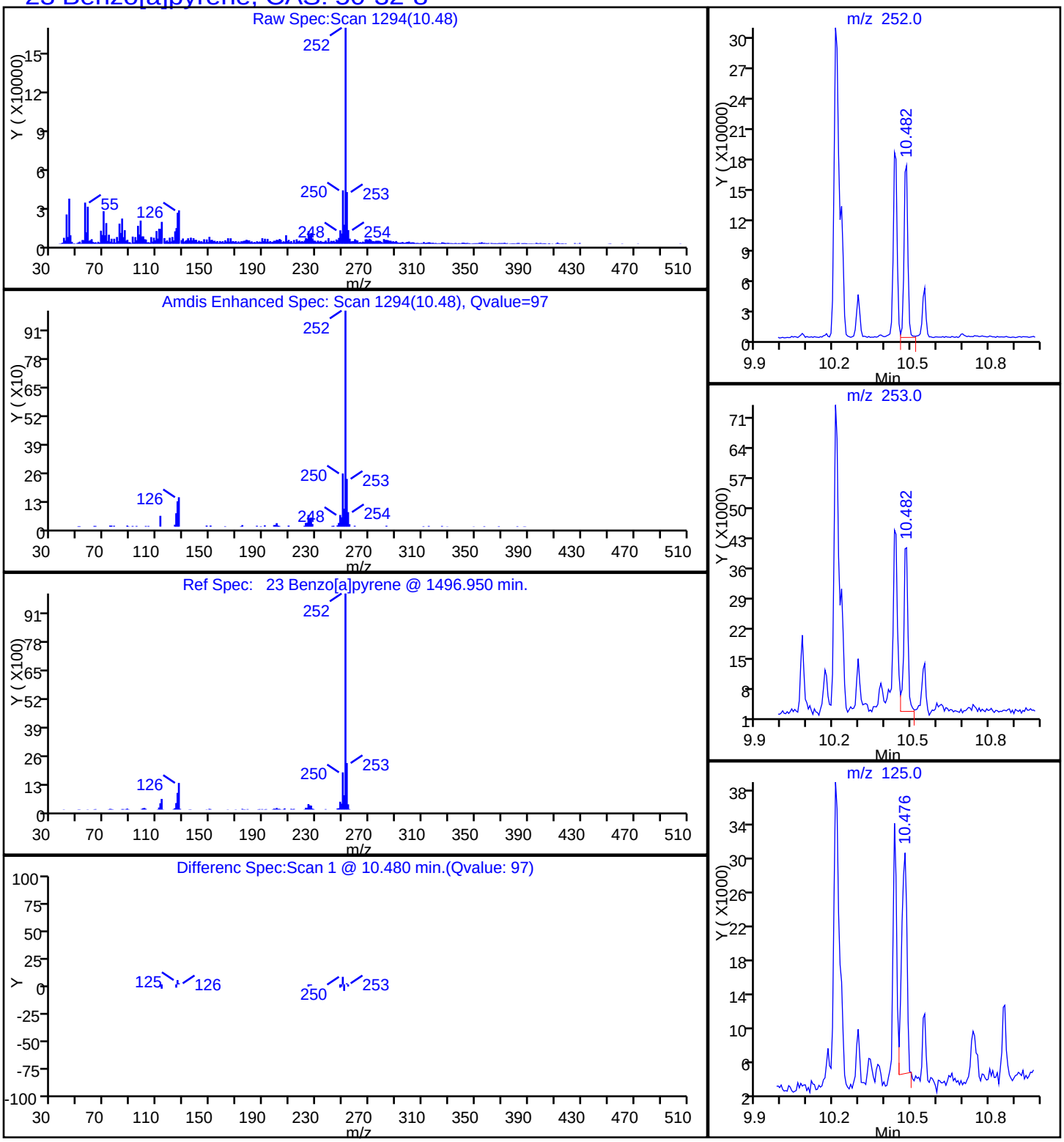


Report Date: 20-Nov-2014 10:09:55 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1924.D				
Injection Date:	19-Nov-2014 20:48:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-4-A	Lab Sample ID:	680-107310-4		
Client ID:	CV1063A-CSD0-4"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

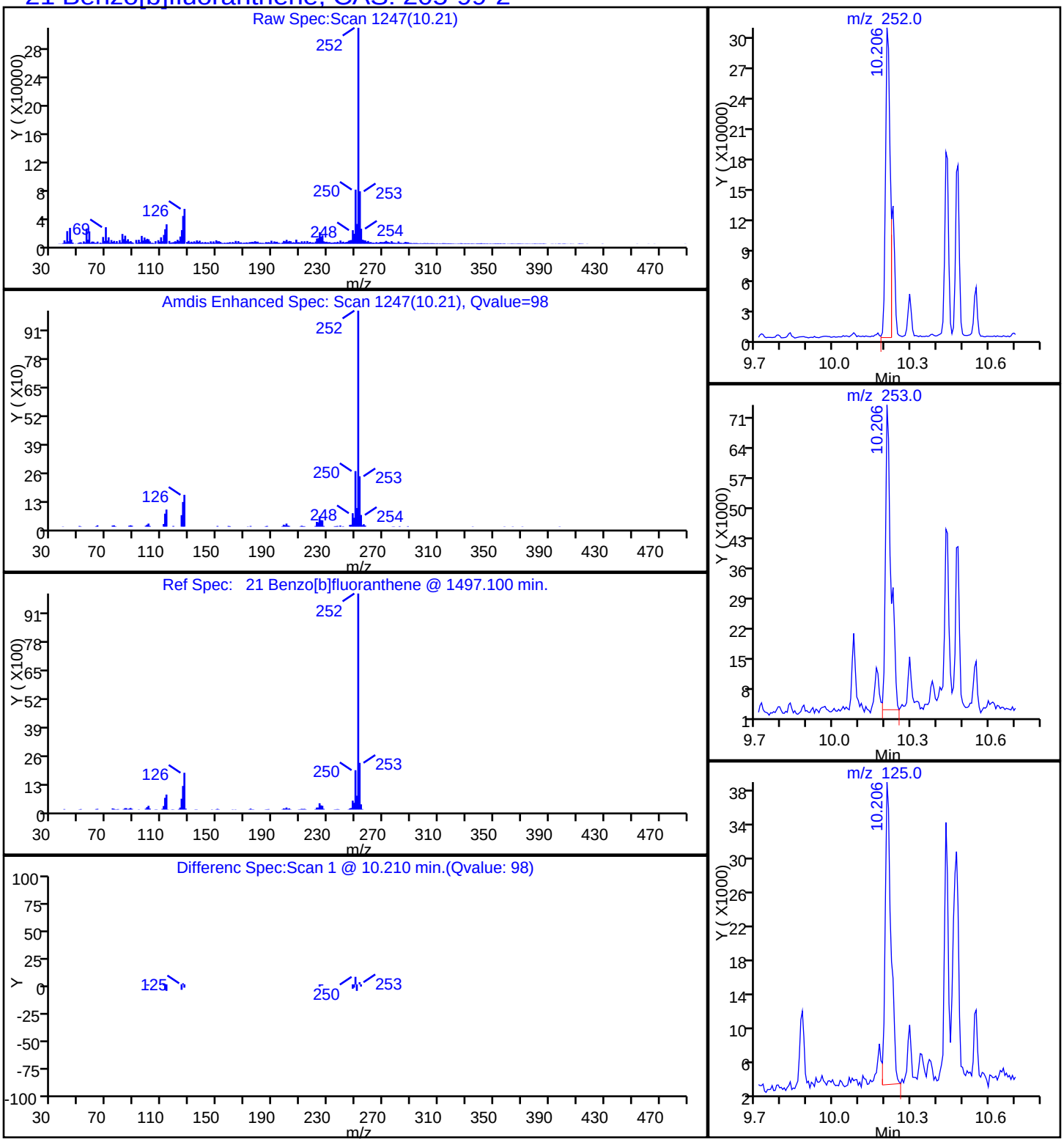


Report Date: 20-Nov-2014 10:09:55 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1924.D				
Injection Date:	19-Nov-2014 20:48:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-4-A	Lab Sample ID:	680-107310-4		
Client ID:	CV1063A-CSD0-4"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

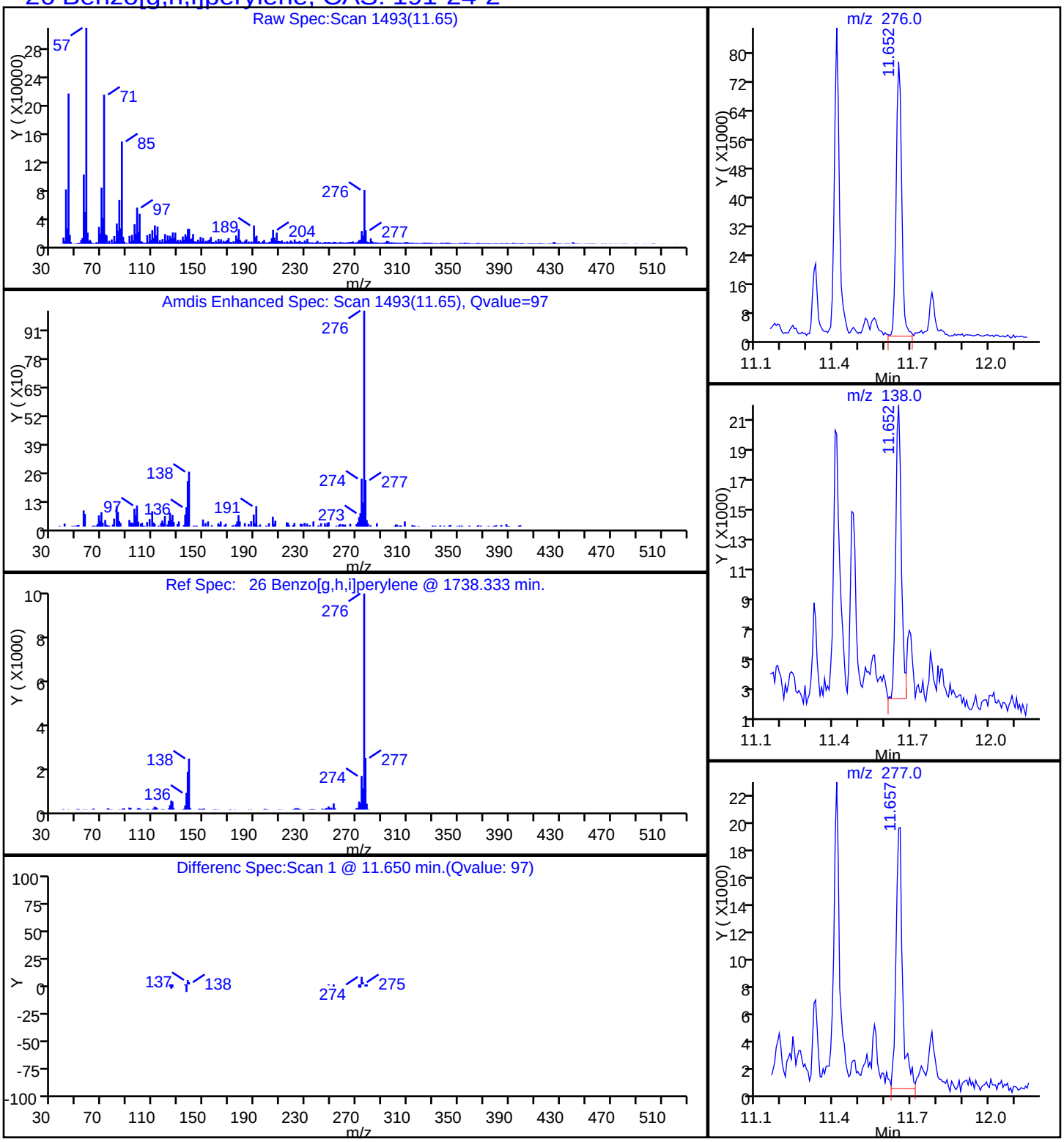


Report Date: 20-Nov-2014 10:09:55 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1924.D				
Injection Date:	19-Nov-2014 20:48:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-4-A	Lab Sample ID:	680-107310-4		
Client ID:	CV1063A-CSD0-4"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

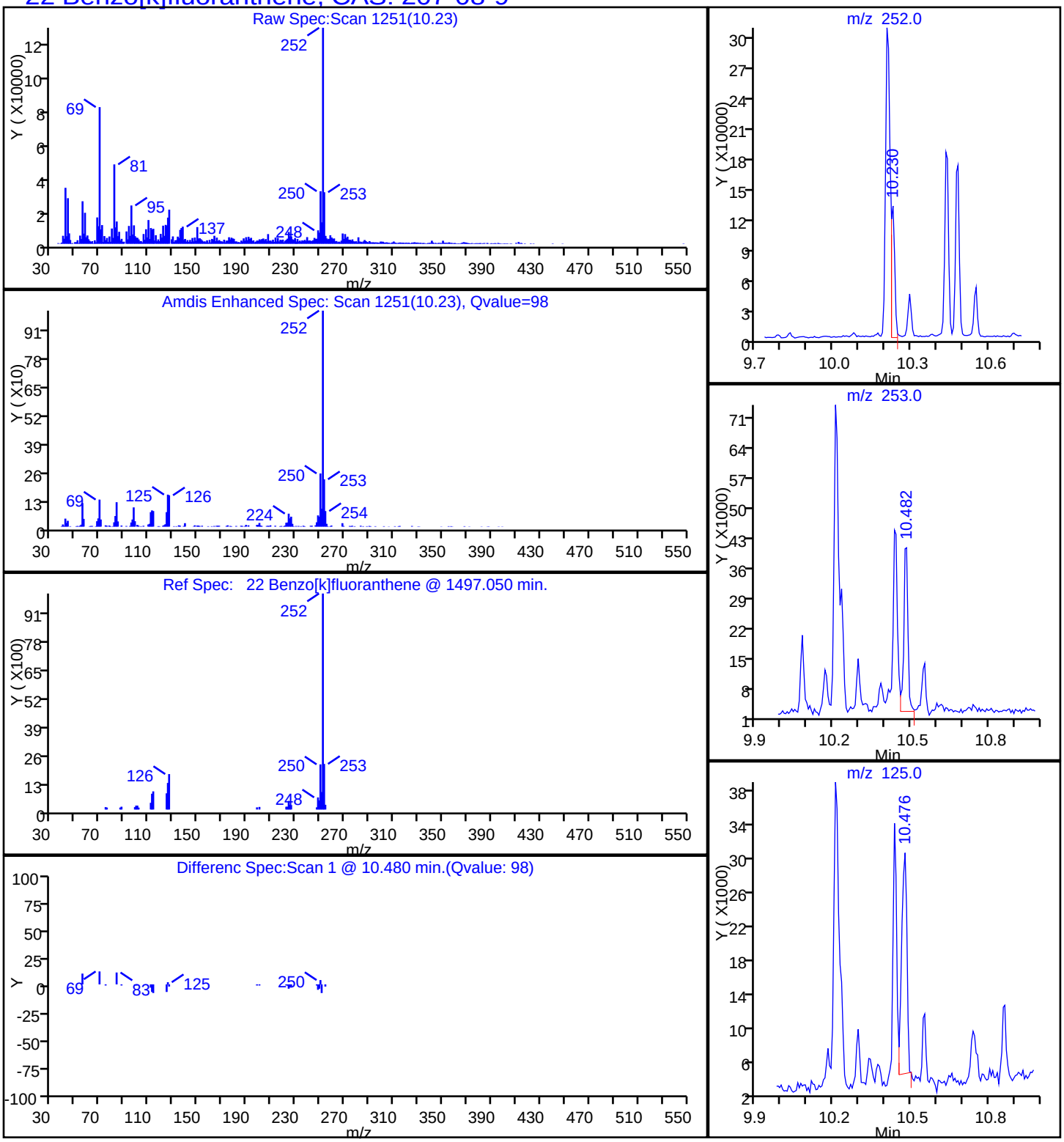


Report Date: 20-Nov-2014 10:09:55 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1924.D				
Injection Date:	19-Nov-2014 20:48:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-4-A	Lab Sample ID:	680-107310-4		
Client ID:	CV1063A-CSD0-4"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

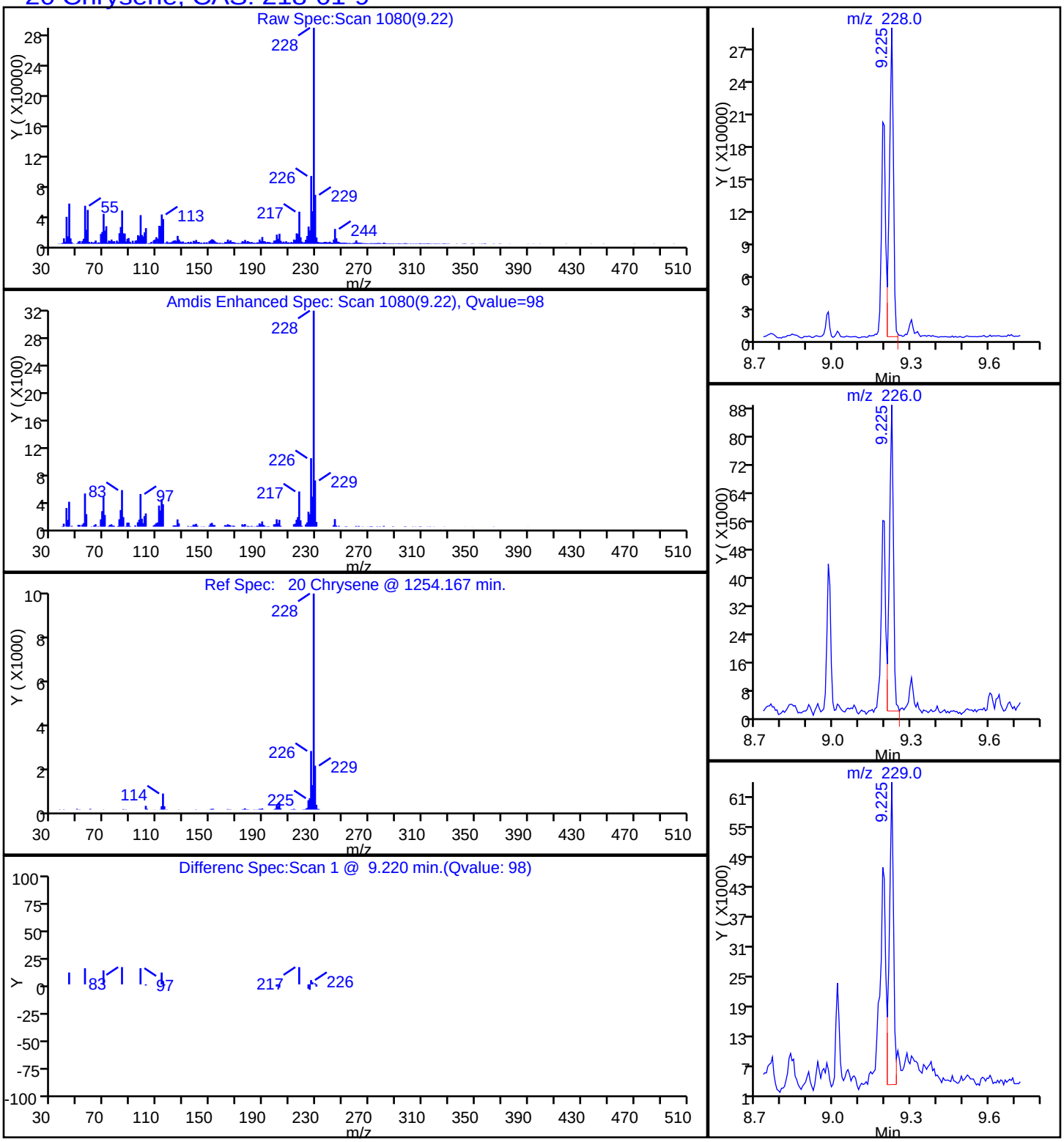


Report Date: 20-Nov-2014 10:09:55 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1924.D				
Injection Date:	19-Nov-2014 20:48:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-4-A	Lab Sample ID:	680-107310-4		
Client ID:	CV1063A-CSD0-4"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Chrysene, CAS: 218-01-9

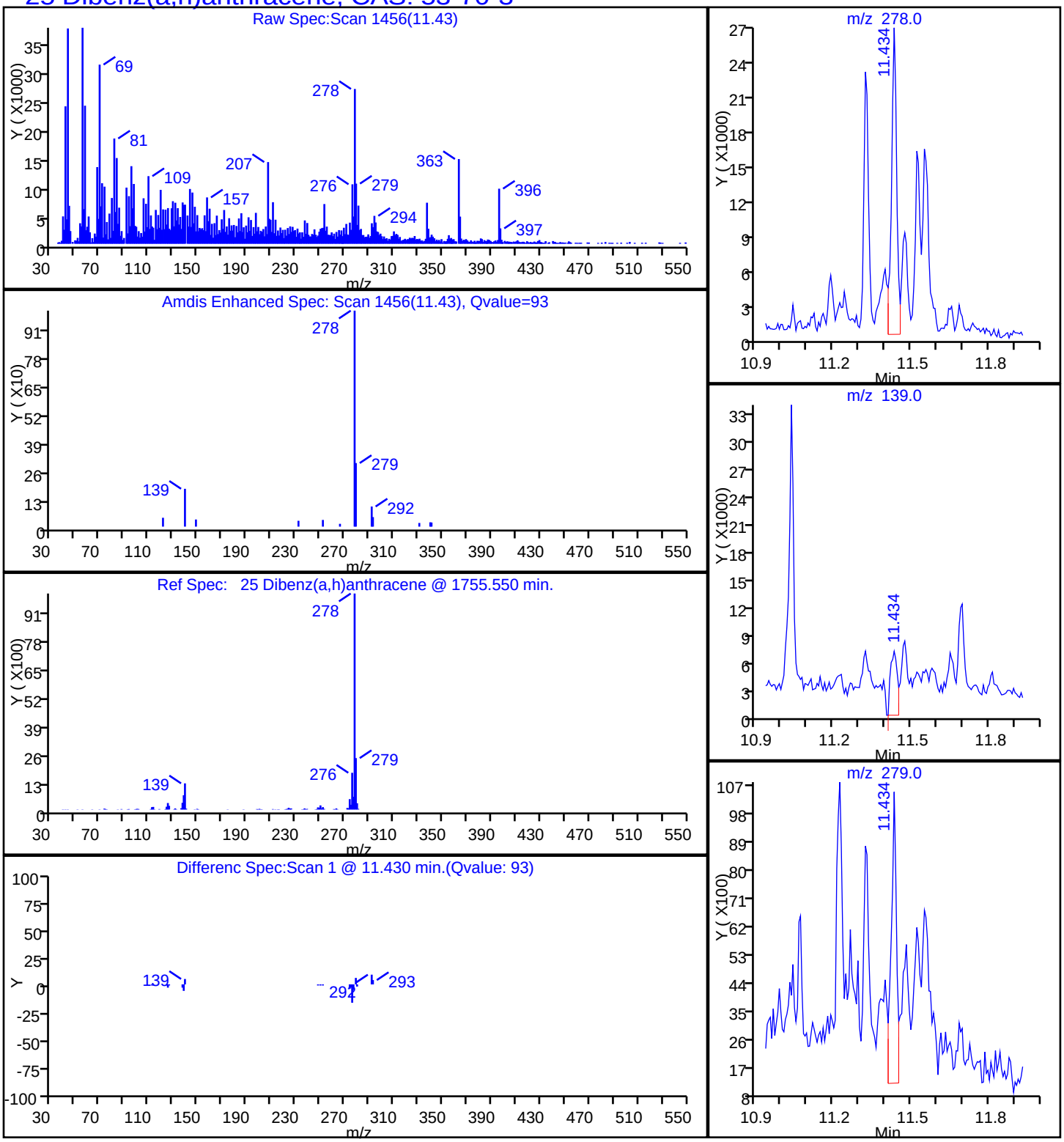


Report Date: 20-Nov-2014 10:09:55 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1924.D				
Injection Date:	19-Nov-2014 20:48:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-4-A	Lab Sample ID:	680-107310-4		
Client ID:	CV1063A-CSD0-4"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

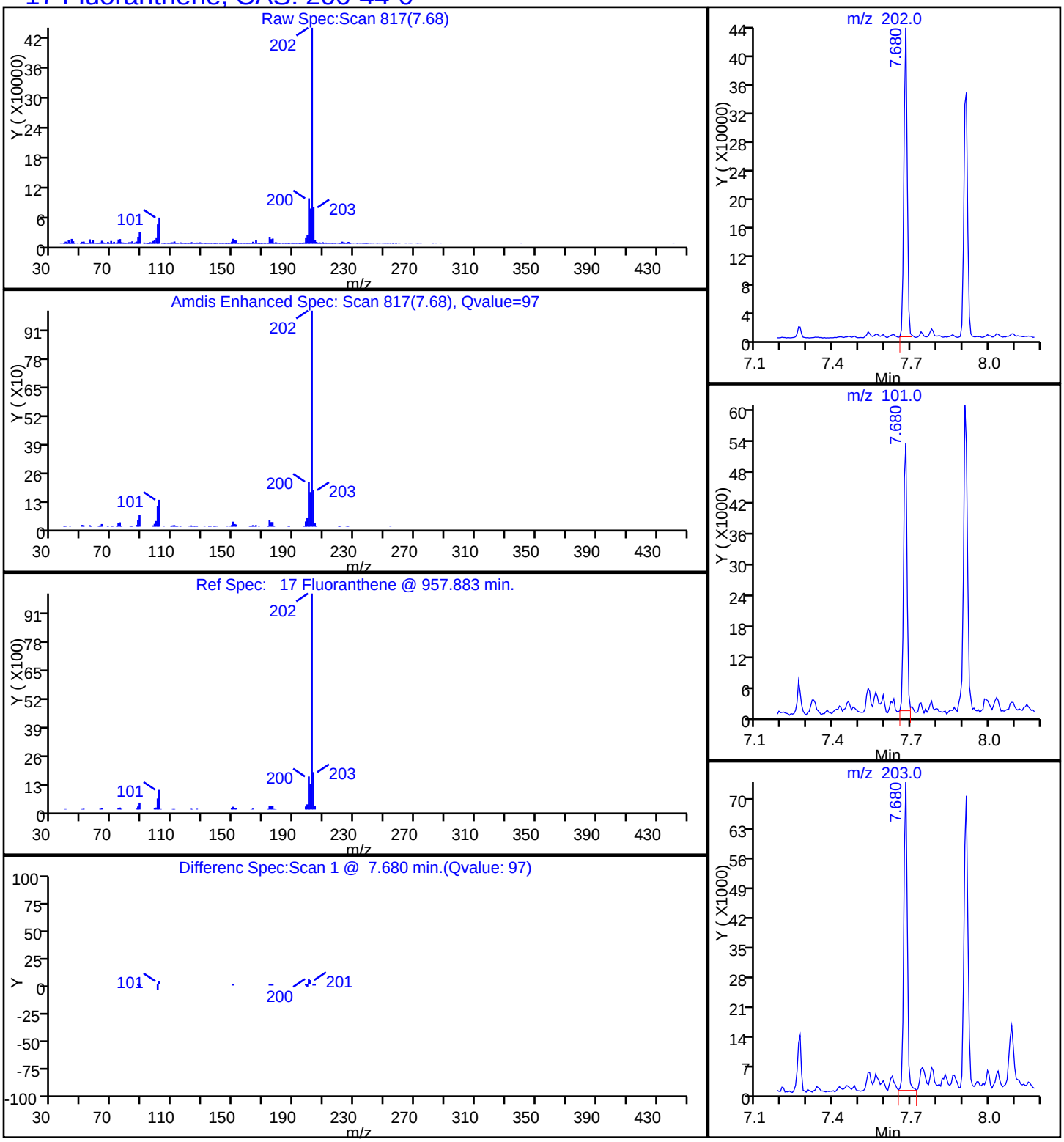


Report Date: 20-Nov-2014 10:09:55 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1924.D				
Injection Date:	19-Nov-2014 20:48:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-4-A	Lab Sample ID:	680-107310-4		
Client ID:	CV1063A-CSD0-4"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 Fluoranthene, CAS: 206-44-0

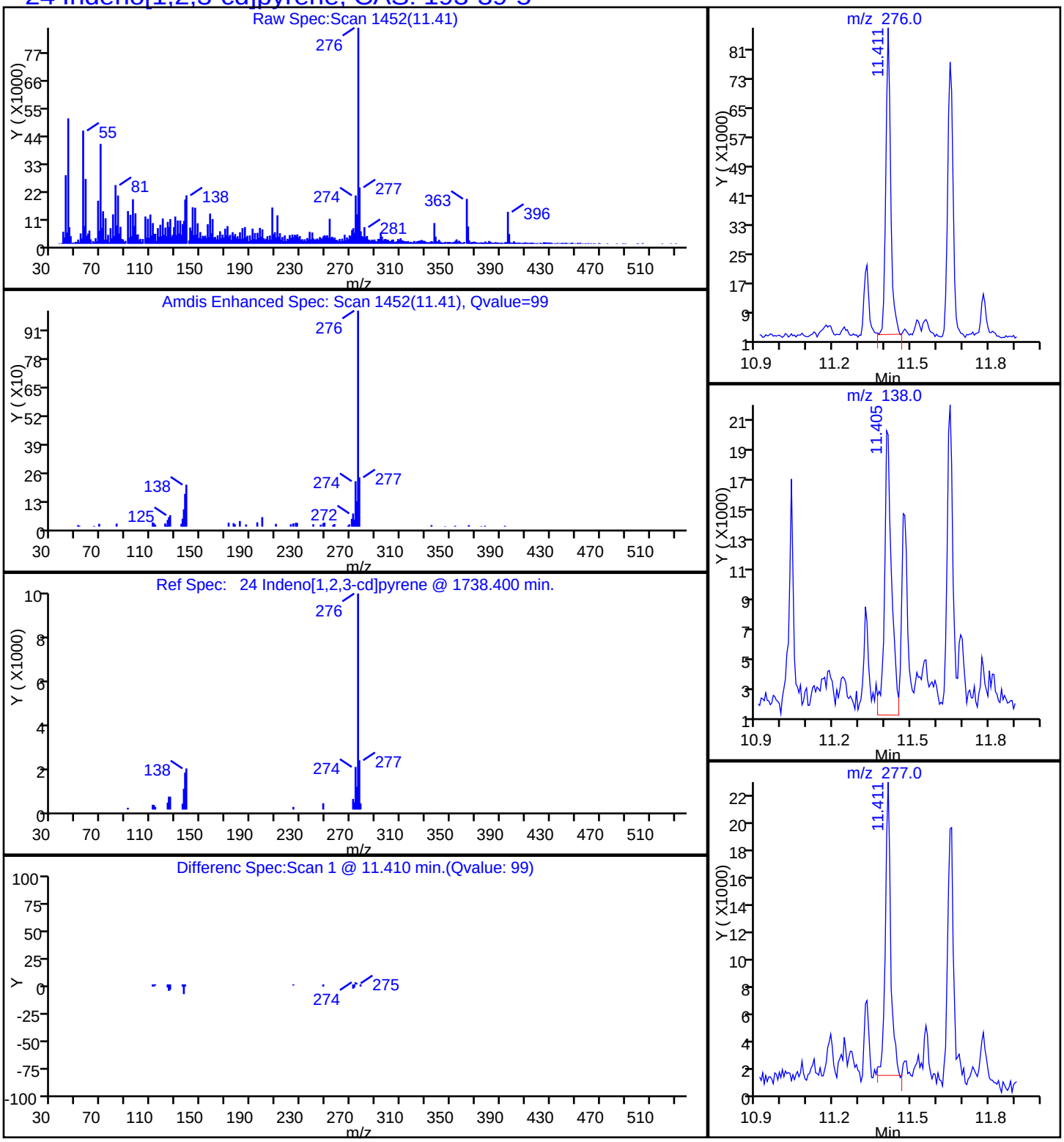


Report Date: 20-Nov-2014 10:09:55 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1924.D				
Injection Date:	19-Nov-2014 20:48:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-4-A	Lab Sample ID:	680-107310-4		
Client ID:	CV1063A-CSD0-4"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

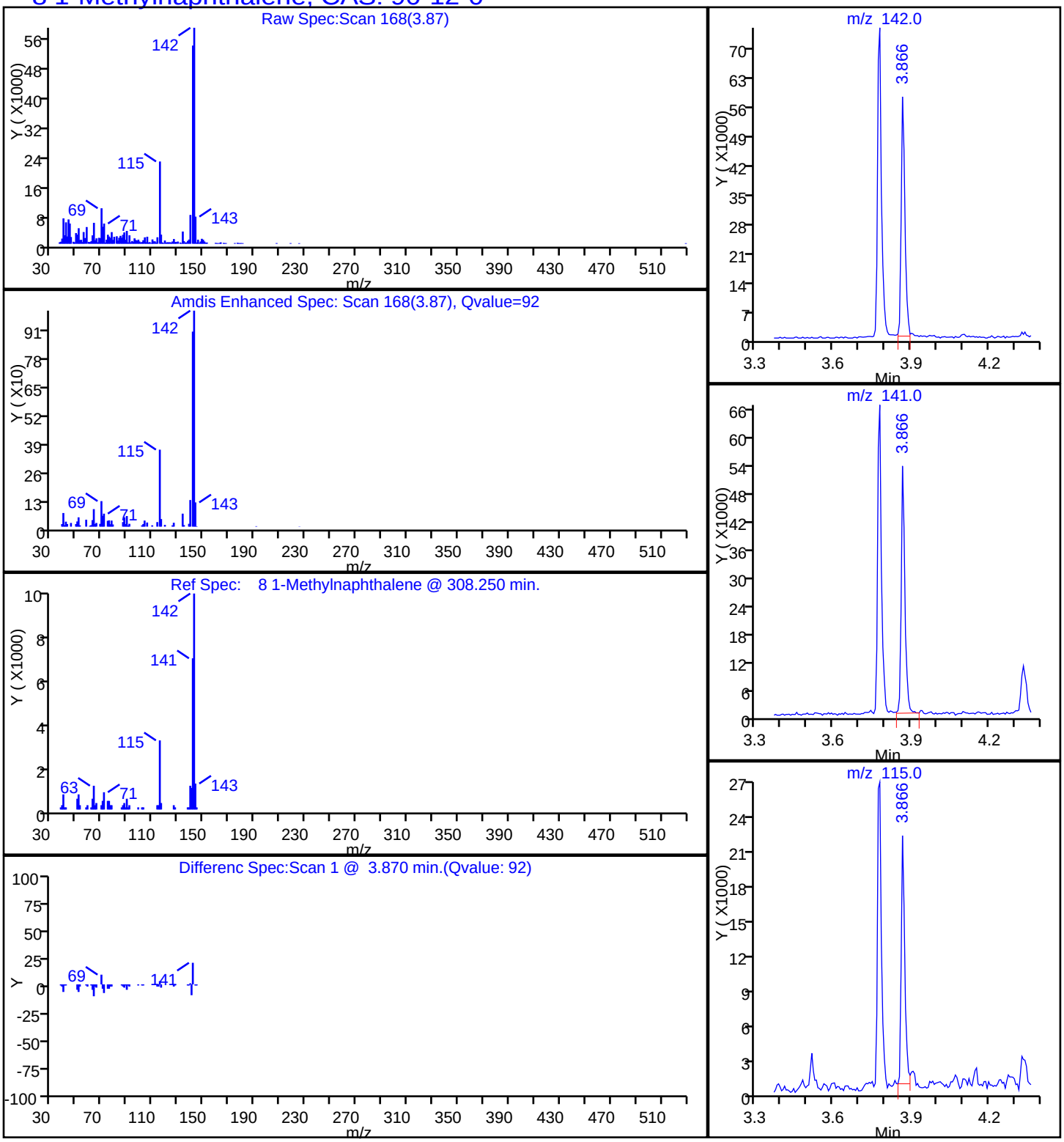


Report Date: 20-Nov-2014 10:09:55 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1924.D				
Injection Date:	19-Nov-2014 20:48:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-4-A	Lab Sample ID:	680-107310-4		
Client ID:	CV1063A-CSD0-4"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

8 1-Methylnaphthalene, CAS: 90-12-0

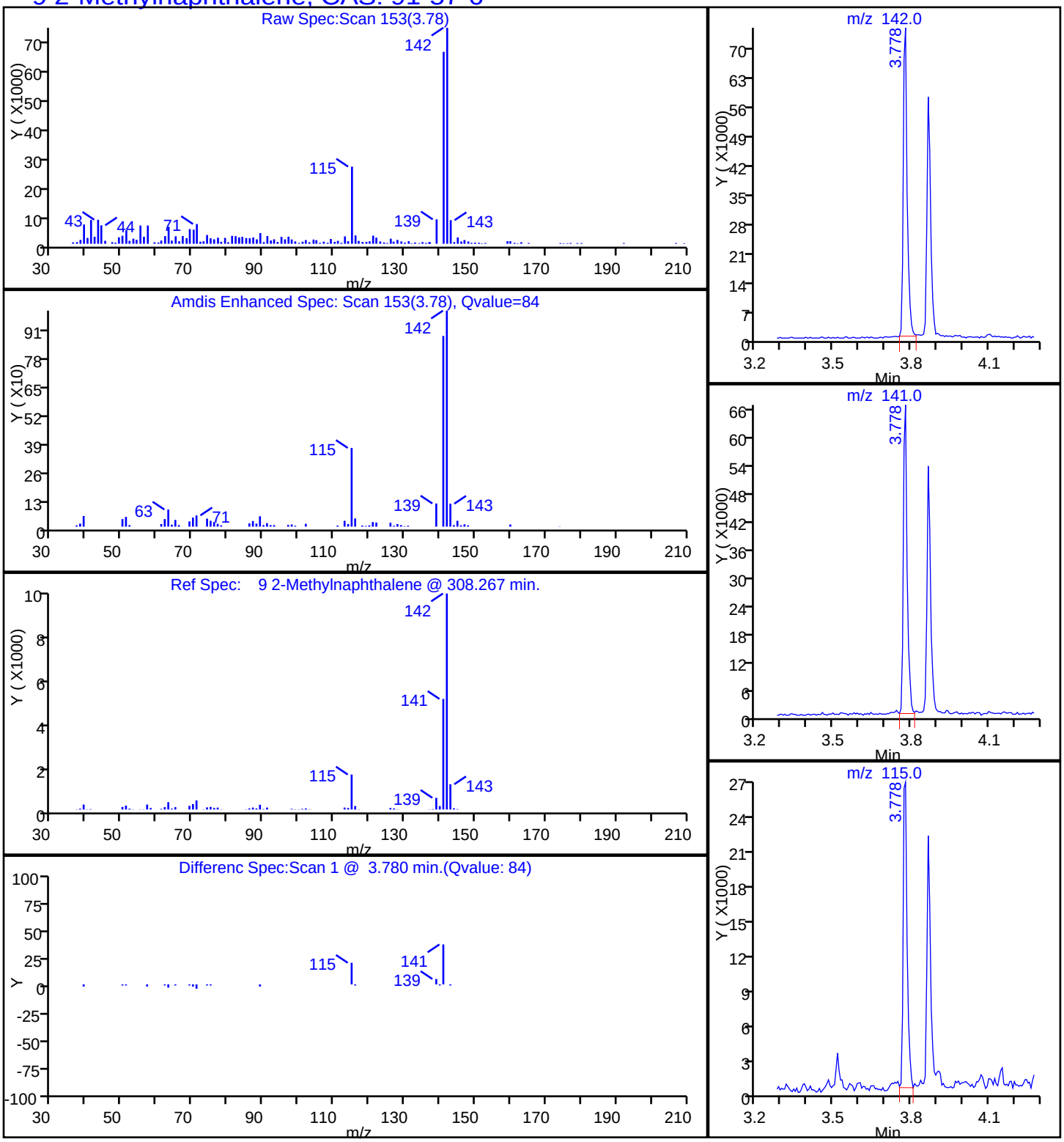


Report Date: 20-Nov-2014 10:09:55 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1924.D				
Injection Date:	19-Nov-2014 20:48:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-4-A	Lab Sample ID:	680-107310-4		
Client ID:	CV1063A-CSD0-4"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

9 2-Methylnaphthalene, CAS: 91-57-6

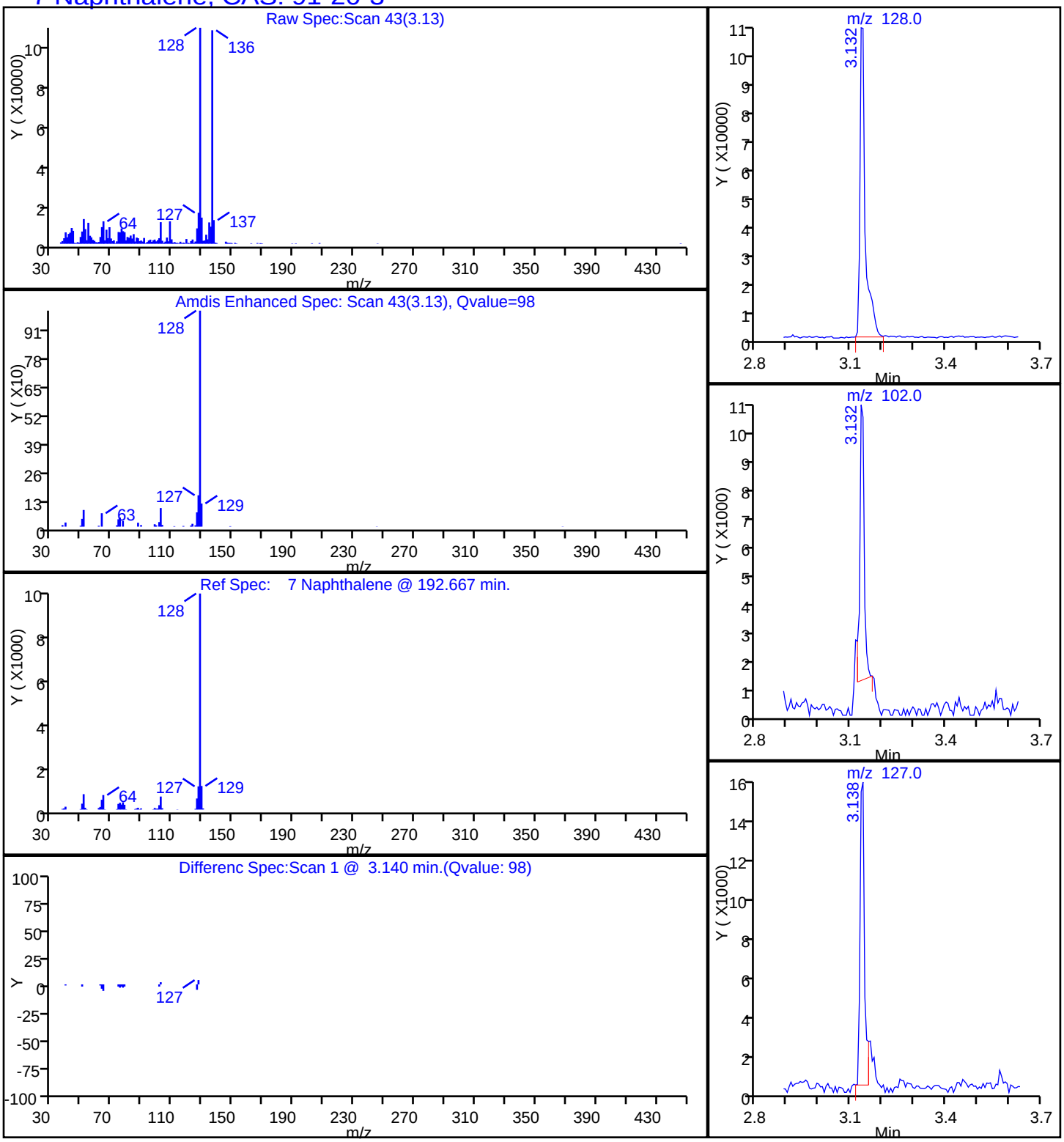


Report Date: 20-Nov-2014 10:09:55 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1924.D				
Injection Date:	19-Nov-2014 20:48:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-4-A	Lab Sample ID:	680-107310-4		
Client ID:	CV1063A-CSD0-4"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

7 Naphthalene, CAS: 91-20-3

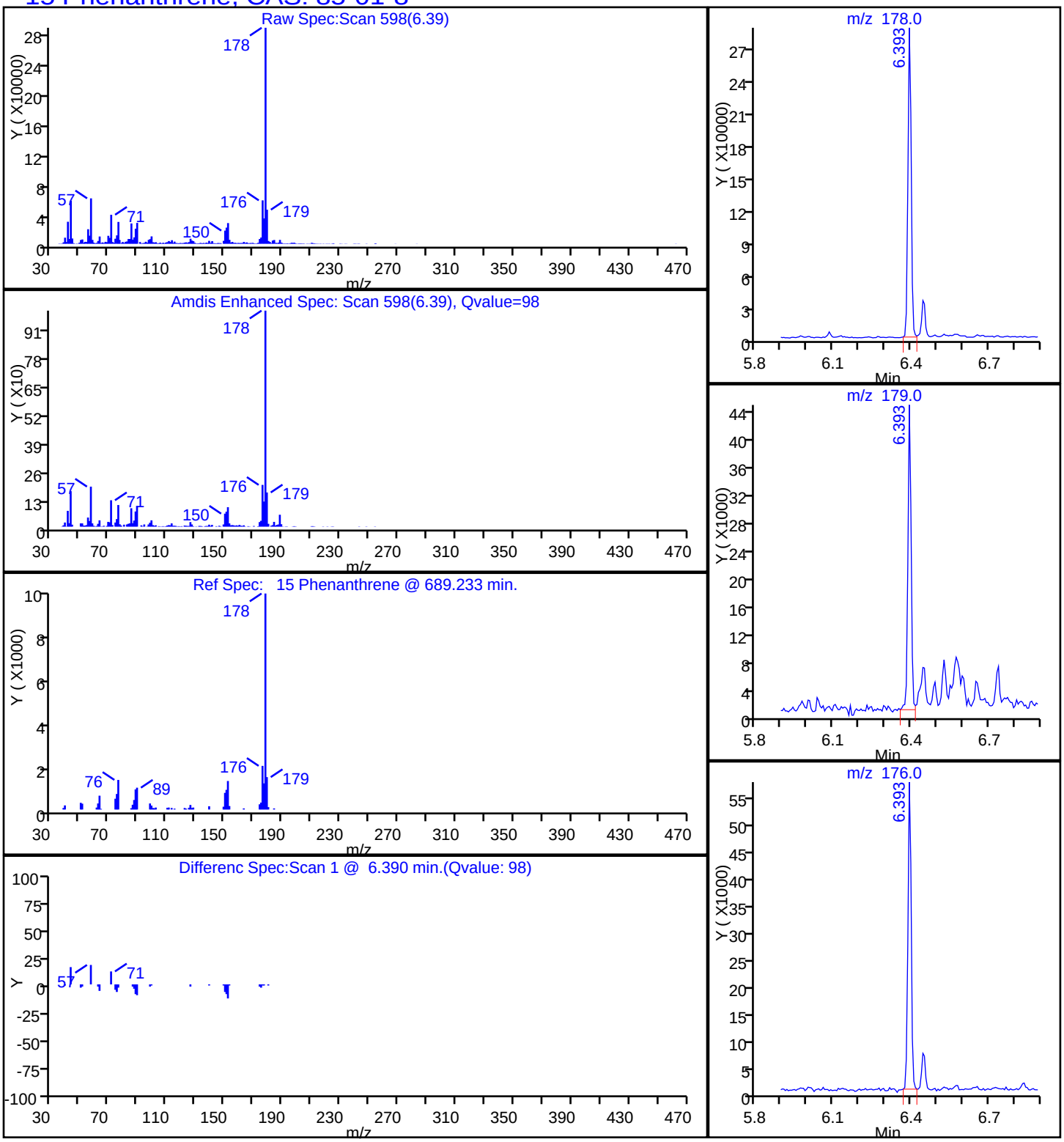


Report Date: 20-Nov-2014 10:09:55 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1924.D				
Injection Date:	19-Nov-2014 20:48:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-4-A	Lab Sample ID:	680-107310-4		
Client ID:	CV1063A-CSD0-4"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

15 Phenanthrene, CAS: 85-01-8

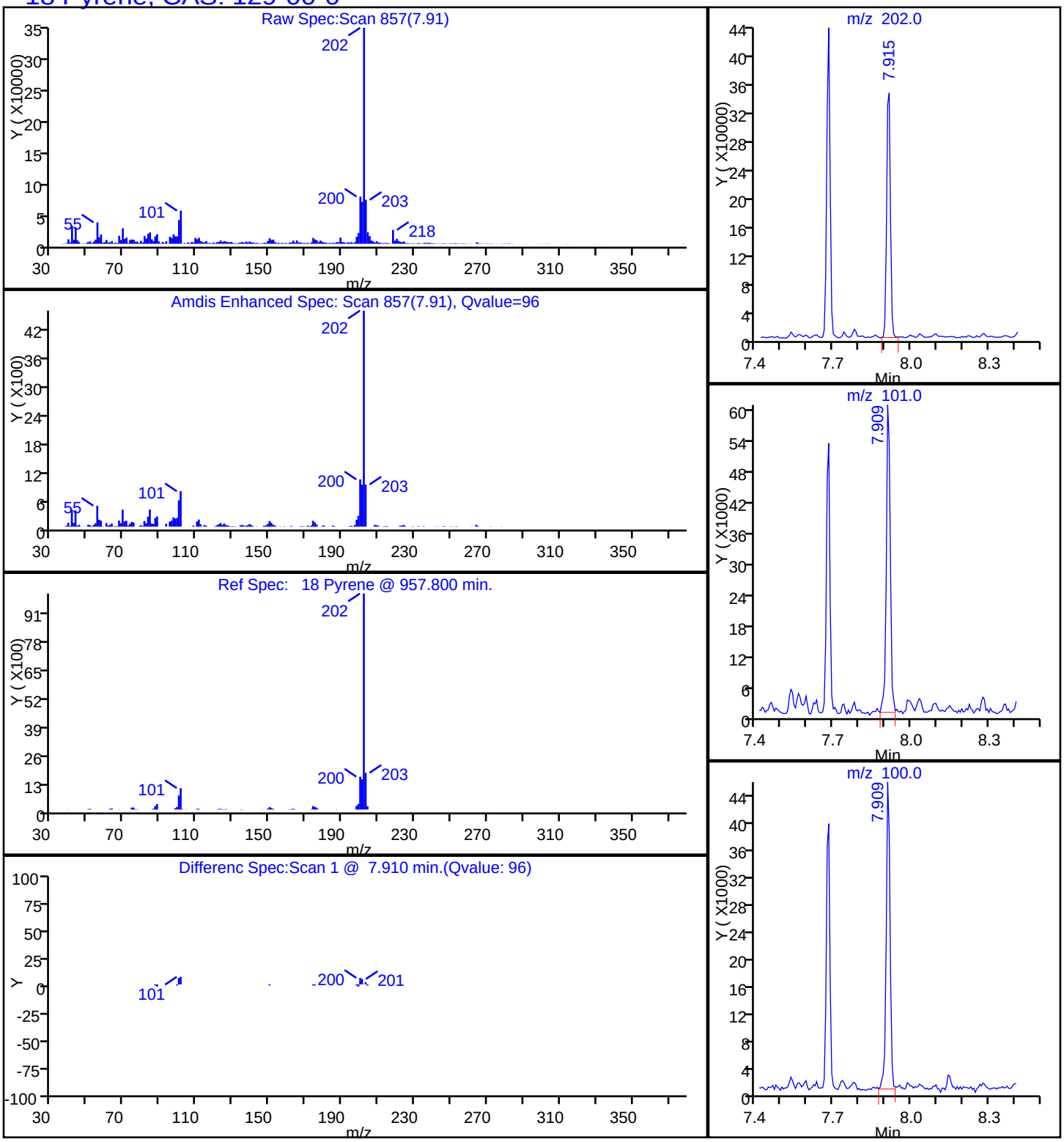


Report Date: 20-Nov-2014 10:09:55 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1924.D				
Injection Date:	19-Nov-2014 20:48:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-4-A	Lab Sample ID:	680-107310-4		
Client ID:	CV1063A-CSD0-4"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

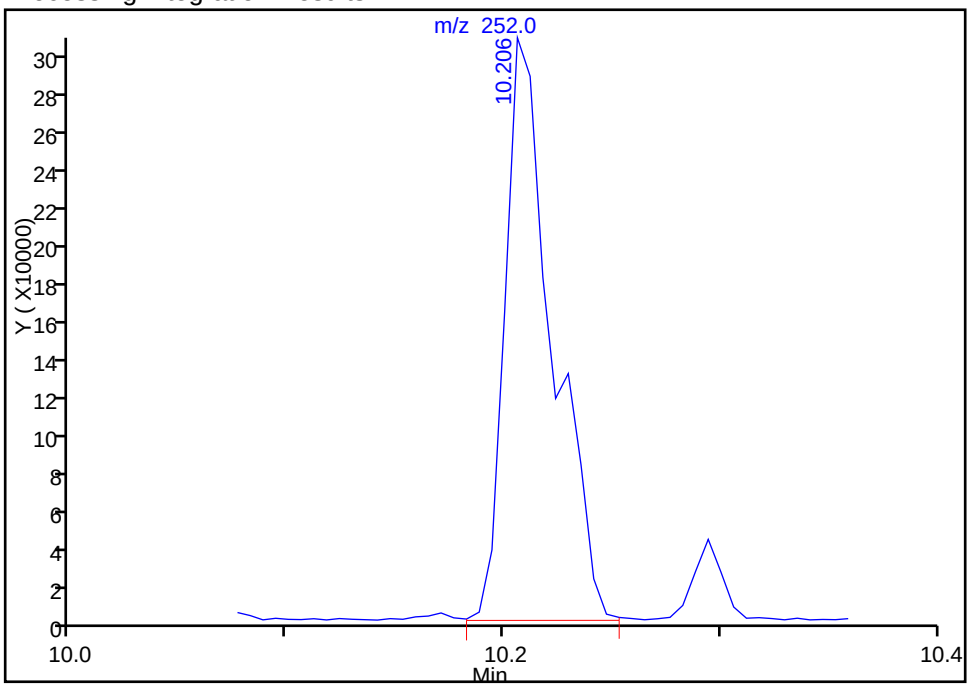
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1924.D				
Injection Date:	19-Nov-2014 20:48:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-4-A	Lab Sample ID:	680-107310-4		
Client ID:	CV1063A-CSD0-4"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

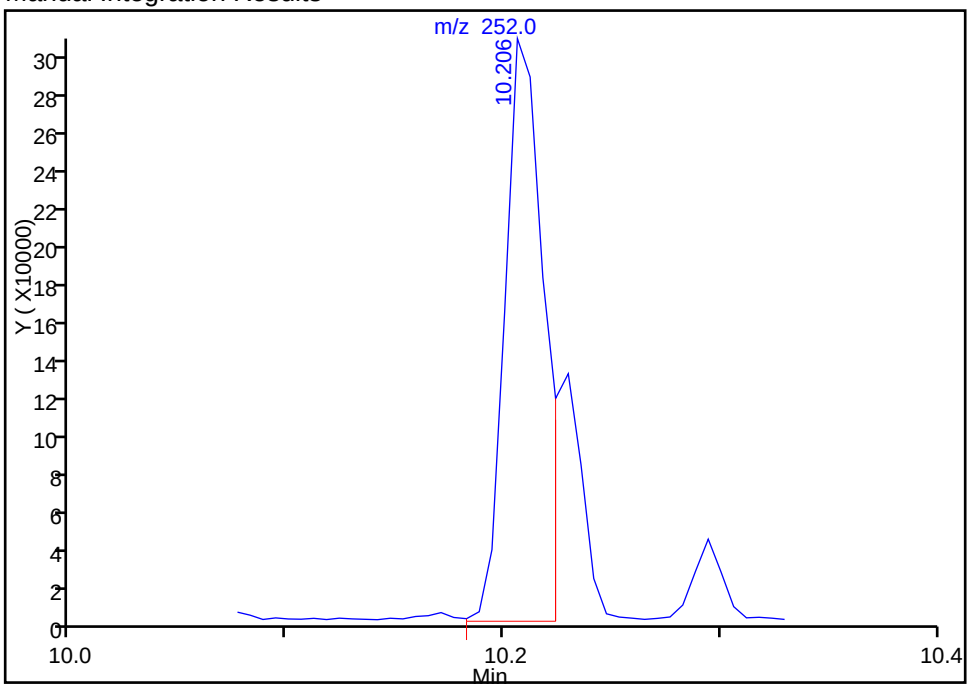
Processing Integration Results

RT: 10.21
Response: 461150
Amount: 1.518570



Manual Integration Results

RT: 10.21
Response: 380600
Amount: 1.276800



Reviewer: webbk, 20-Nov-2014 08:23:07
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

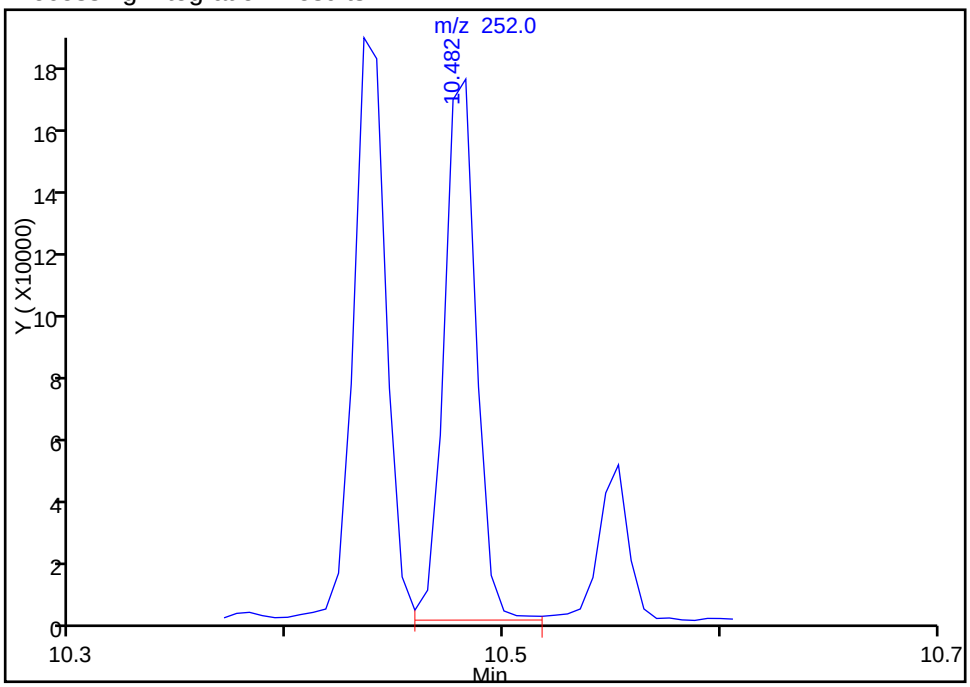
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1924.D				
Injection Date:	19-Nov-2014 20:48:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-4-A	Lab Sample ID:	680-107310-4		
Client ID:	CV1063A-CSD0-4"				
Operator ID:	RM	ALS Bottle#:	24	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

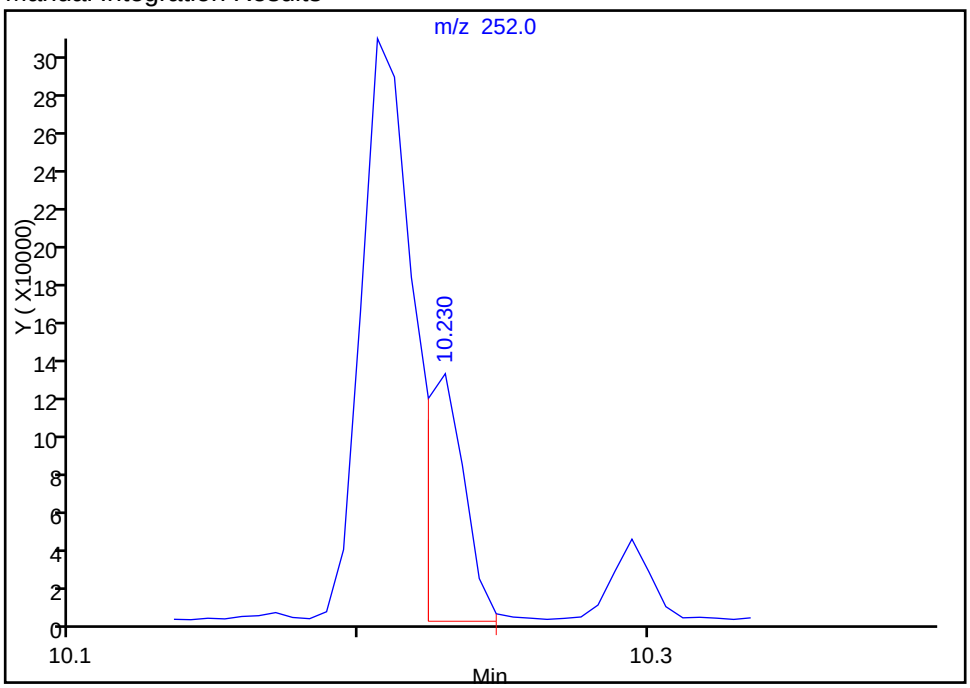
Processing Integration Results

RT: 10.48
Response: 172291
Amount: 0.558111



Manual Integration Results

RT: 10.23
Response: 123452
Amount: 0.399905



Reviewer: webbk, 20-Nov-2014 08:23:07
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107310-1

SDG No.: 680-107310-1

Client Sample ID: CV1063B-CS0-4'' | Lab Sample ID: 680-107310-5

Matrix: Solid | Lab File ID: 2KK1925.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/13/2014 11:15

Extract. Method: 3546 | Date Extracted: 11/17/2014 12:45

Sample wt/vol: 30.04(g) | Date Analyzed: 11/19/2014 21:11

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

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

% Moisture: 17.2 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359503 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	930		81	40
208-96-8	Acenaphthylene	81	U	81	40
120-12-7	Anthracene	1300		81	40
56-55-3	Benzo[a]anthracene	2800		81	40
50-32-8	Benzo[a]pyrene	2300		81	14
205-99-2	Benzo[b]fluoranthene	3100		81	40
191-24-2	Benzo[g,h,i]perylene	1400		81	40
207-08-9	Benzo[k]fluoranthene	1400		81	24
218-01-9	Chrysene	2900		81	40
53-70-3	Dibenz(a,h)anthracene	550		81	40
206-44-0	Fluoranthene	5100		81	40
86-73-7	Fluorene	710		81	40
193-39-5	Indeno[1,2,3-cd]pyrene	1400		81	40
90-12-0	1-Methylnaphthalene	910		81	37
91-57-6	2-Methylnaphthalene	970		81	40
91-20-3	Naphthalene	1200		81	40
85-01-8	Phenanthrene	6400		81	29
129-00-0	Pyrene	5000		81	40

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\CMSK\20141119-14922.b\2KK1925.D
Lims ID: 680-107310-A-5-A Lab Sample ID: 680-107310-5
Client ID: CV1063B-CS0-4"
Sample Type: Client
Inject. Date: 19-Nov-2014 21:11:30 ALS Bottle#: 25 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 680-107310-A-5-A 1:10
Misc. Info.: 680-0014922-025
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:35 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 20-Nov-2014 10:09:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.120	3.114	0.006	99	757373	2.00	
* 2 Acenaphthene-d10	164	4.812	4.806	0.006	93	416959	2.00	
* 3 Phenanthrene-d10	188	6.375	6.363	0.012	98	693646	2.00	
* 4 Chrysene-d12	240	9.207	9.196	0.011	99	614444	2.00	
* 5 Perylene-d12	264	10.535	10.518	0.017	99	451540	2.00	
7 Naphthalene	128	3.138	3.138	0.000	99	1252206	2.95	
9 2-Methylnaphthalene	142	3.778	3.778	0.000	85	621317	2.40	
8 1-Methylnaphthalene	142	3.872	3.866	0.006	93	534658	2.27	
12 Acenaphthene	153	4.842	4.842	0.000	95	603560	2.30	
14 Fluorene	166	5.382	5.382	0.000	95	544690	1.77	
15 Phenanthrene	178	6.405	6.393	0.012	97	6675103	15.9	
16 Anthracene	178	6.452	6.446	0.006	98	1436995	3.31	
17 Fluoranthene	202	7.691	7.674	0.017	98	6075440	12.6	
18 Pyrene	202	7.926	7.909	0.017	97	5337818	12.4	
19 Benzo[a]anthracene	228	9.201	9.190	0.011	98	2420052	7.05	
20 Chrysene	228	9.237	9.225	0.012	98	2303018	7.14	
21 Benzo[b]fluoranthene	252	10.218	10.200	0.018	99	2383328	7.69	M
22 Benzo[k]fluoranthene	252	10.235	10.224	0.011	98	1057980	3.53	M
23 Benzo[a]pyrene	252	10.488	10.471	0.018	97	1426323	5.60	
24 Indeno[1,2,3-cd]pyrene	276	11.422	11.399	0.023	99	774943	3.49	
25 Dibenz(a,h)anthracene	278	11.446	11.422	0.024	94	230358	1.37	
26 Benzo[g,h,i]perylene	276	11.669	11.634	0.035	98	652684	3.44	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

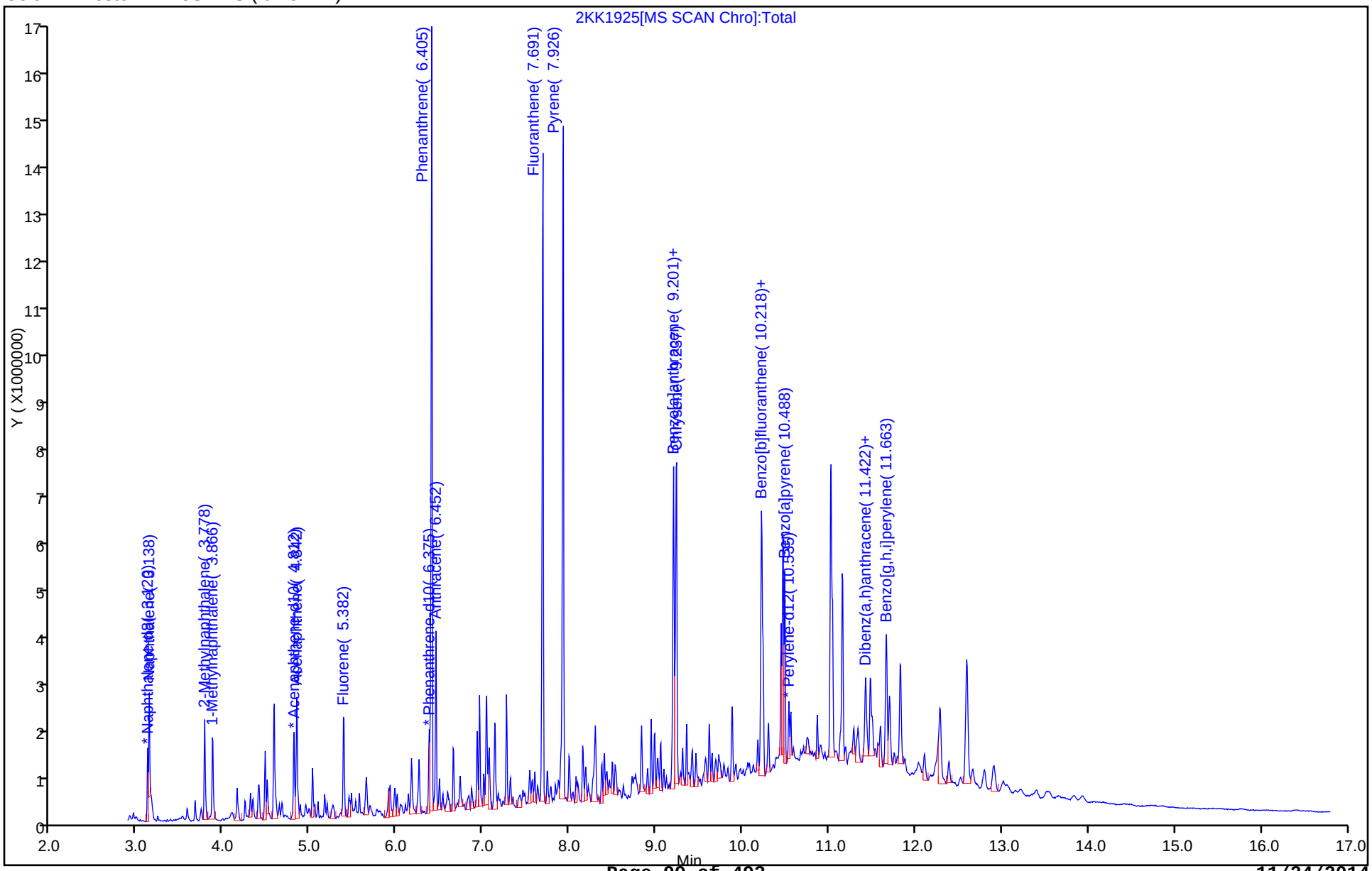
SM-LLISTD_00114 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 20-Nov-2014 10:09:56 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1925.D				
Injection Date:	19-Nov-2014 21:11:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-107310-A-5-A	Lab Sample ID:	680-107310-5	Worklist Smp#:	25
Client ID:	CV1063B-CS0-4"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	25
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

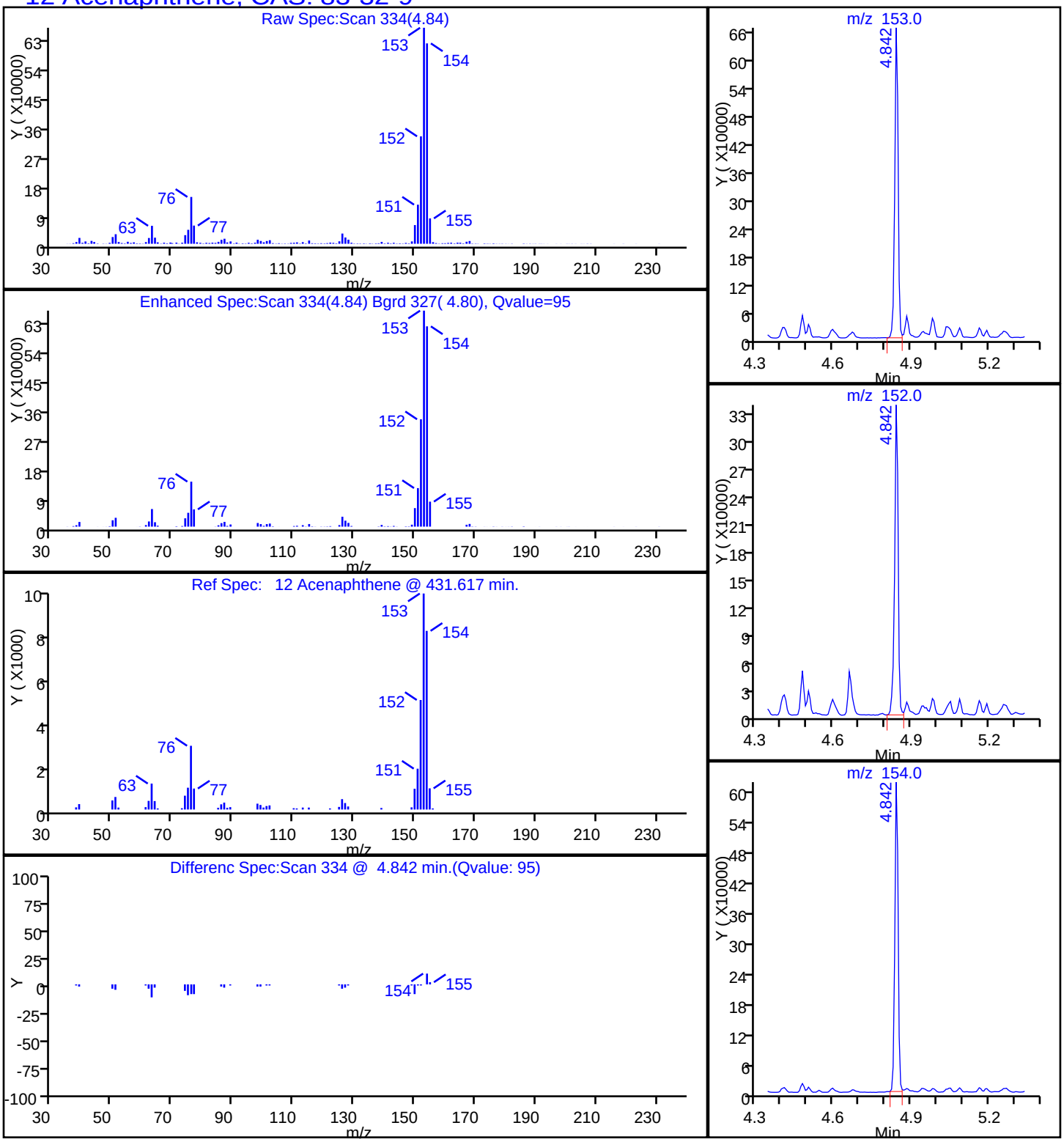


Report Date: 20-Nov-2014 10:09:56 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1925.D				
Injection Date:	19-Nov-2014 21:11:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-5-A	Lab Sample ID:	680-107310-5		
Client ID:	CV1063B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

12 Acenaphthene, CAS: 83-32-9

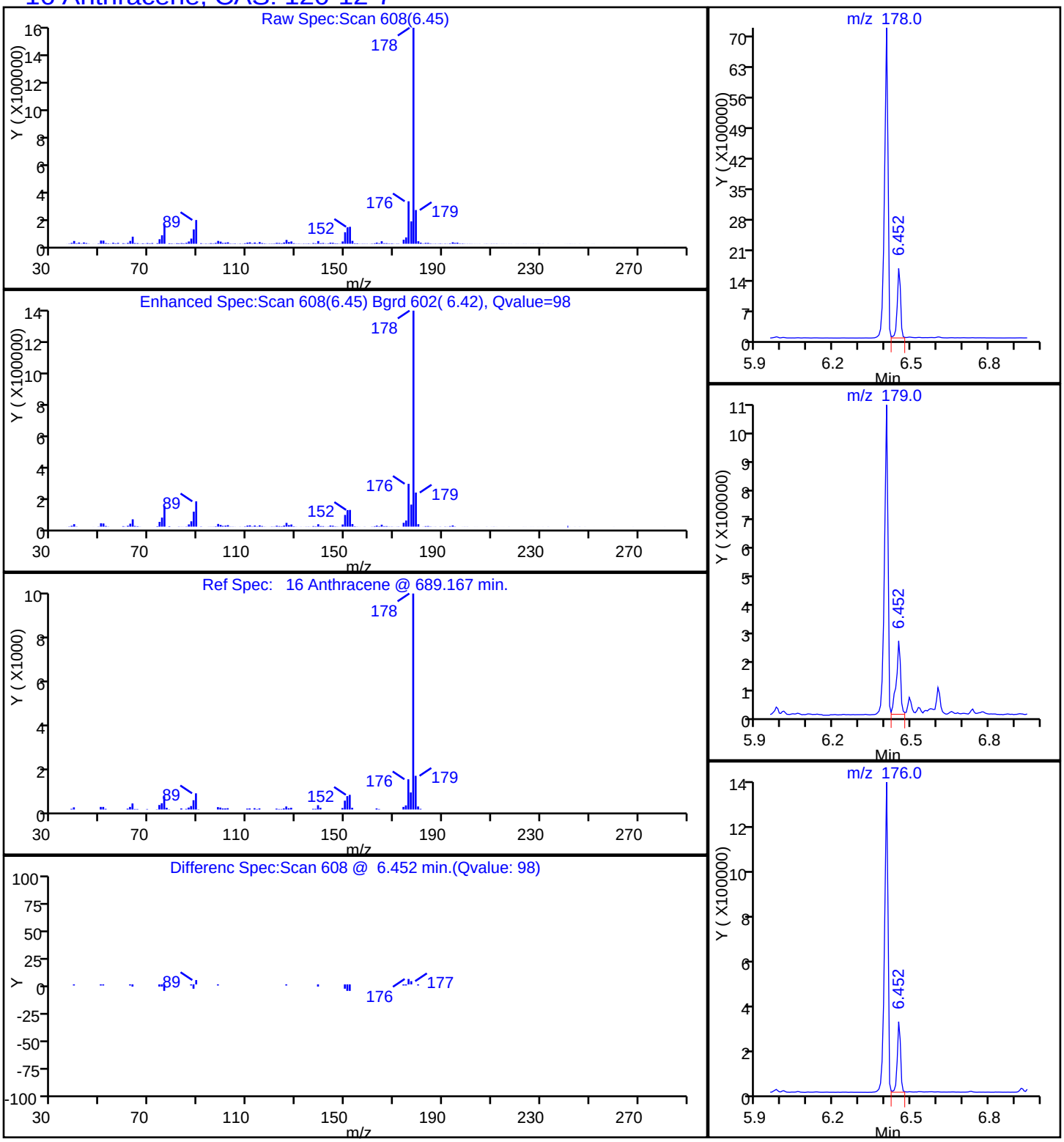


Report Date: 20-Nov-2014 10:09:56 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1925.D				
Injection Date:	19-Nov-2014 21:11:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-5-A	Lab Sample ID:	680-107310-5		
Client ID:	CV1063B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

16 Anthracene, CAS: 120-12-7

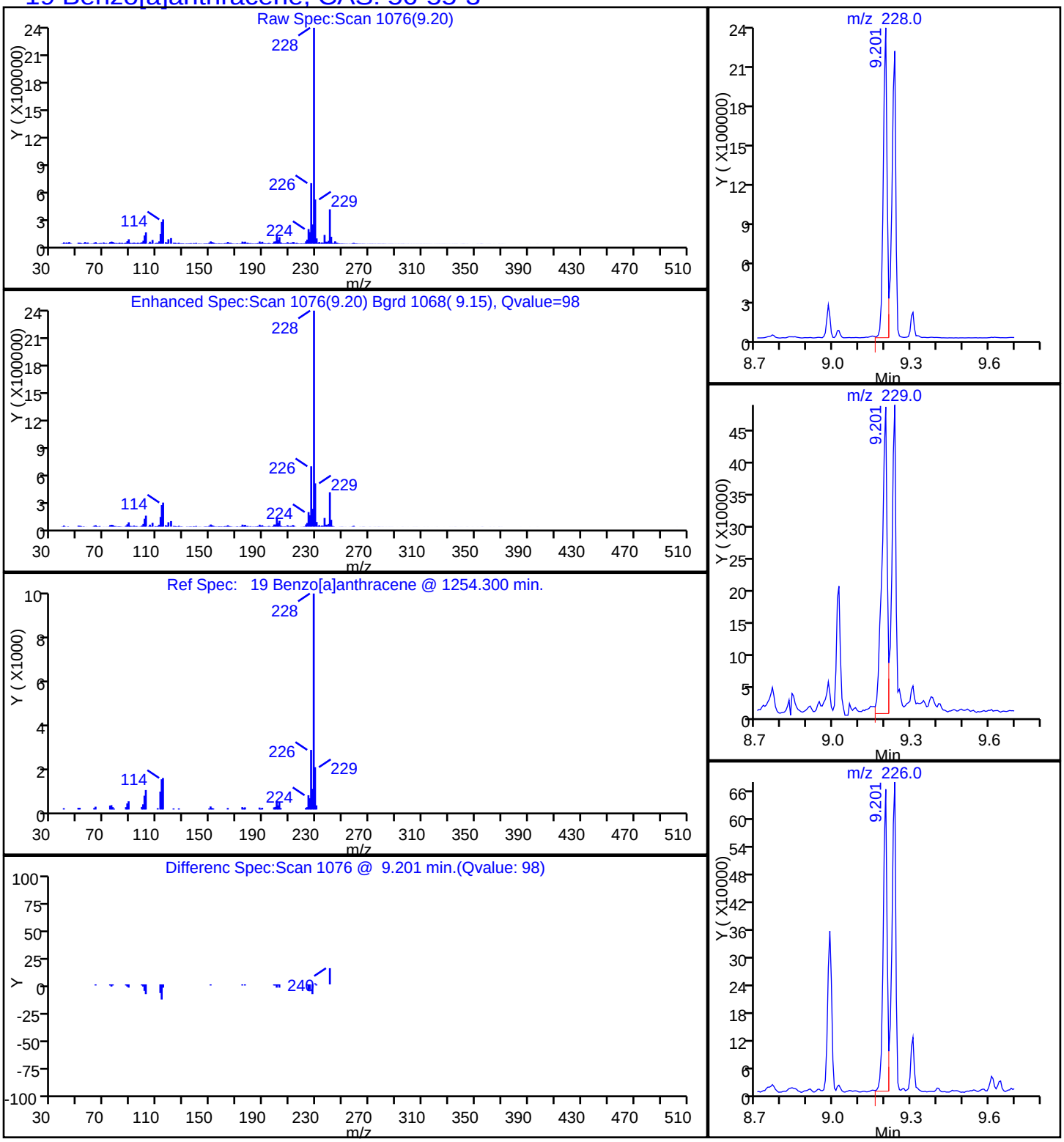


Report Date: 20-Nov-2014 10:09:56 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1925.D				
Injection Date:	19-Nov-2014 21:11:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-5-A	Lab Sample ID:	680-107310-5		
Client ID:	CV1063B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

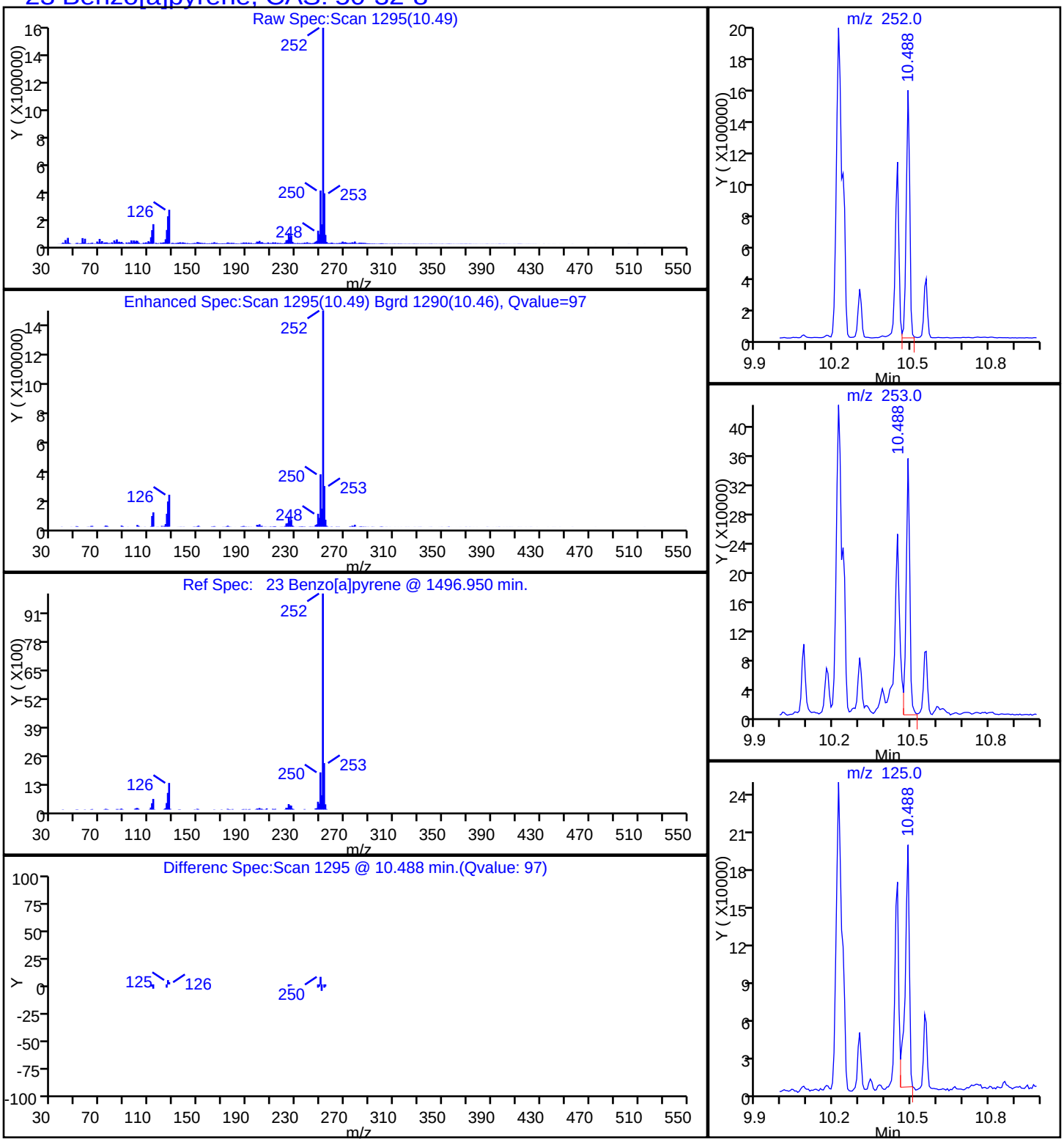


Report Date: 20-Nov-2014 10:09:56 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1925.D				
Injection Date:	19-Nov-2014 21:11:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-5-A	Lab Sample ID:	680-107310-5		
Client ID:	CV1063B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

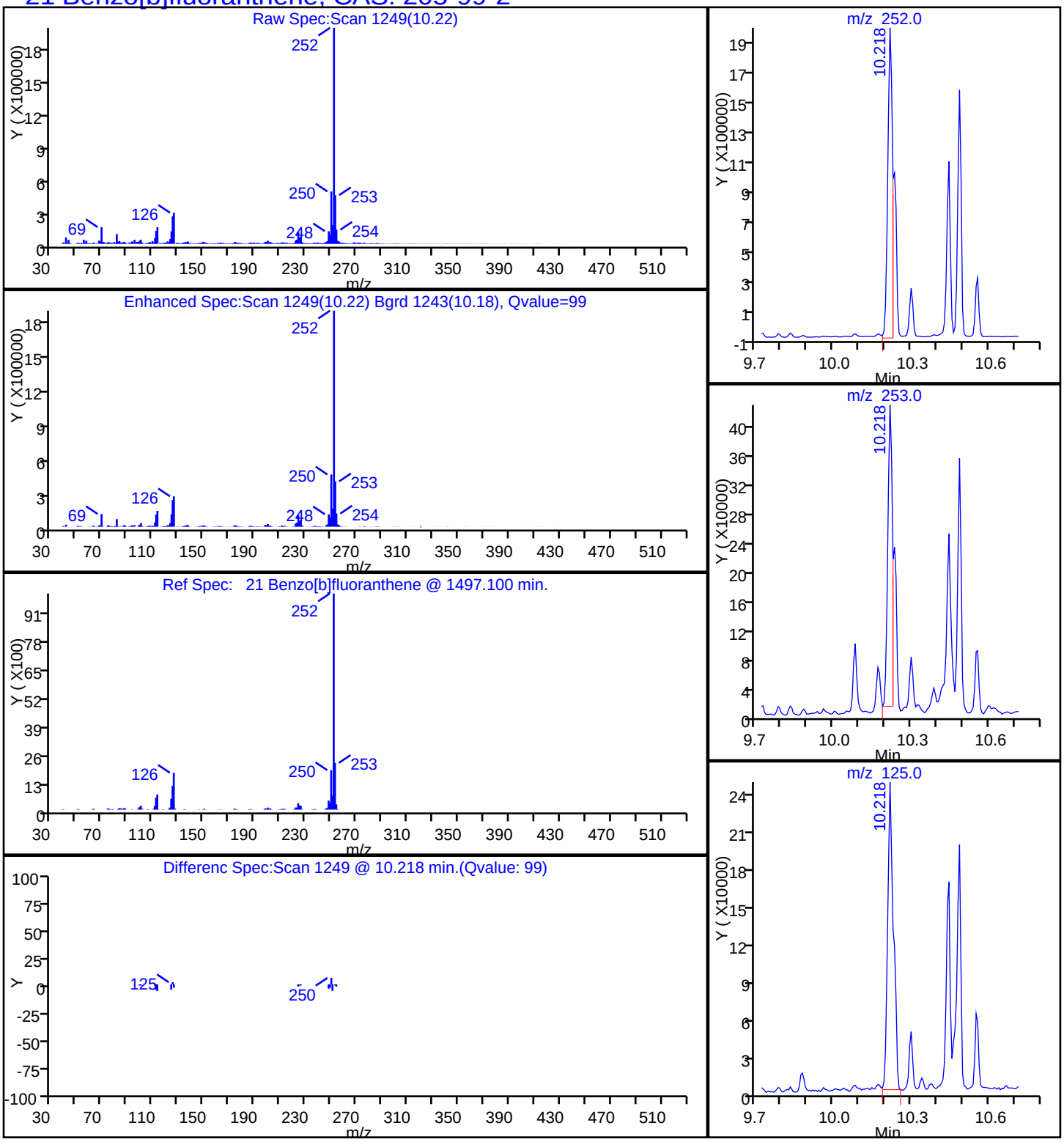


Report Date: 20-Nov-2014 10:09:56 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1925.D				
Injection Date:	19-Nov-2014 21:11:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-5-A	Lab Sample ID:	680-107310-5		
Client ID:	CV1063B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

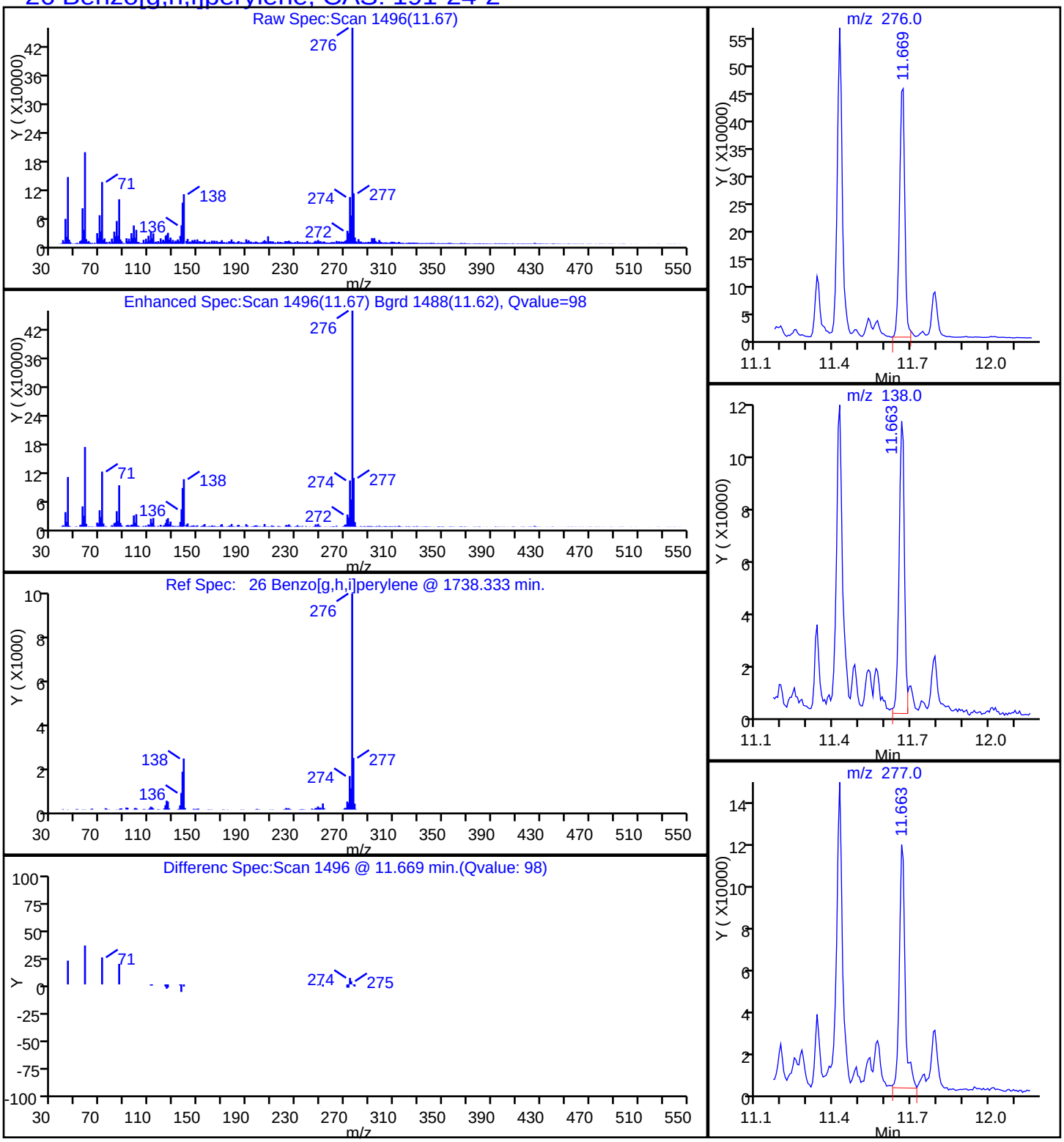


Report Date: 20-Nov-2014 10:09:57 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1925.D				
Injection Date:	19-Nov-2014 21:11:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-5-A	Lab Sample ID:	680-107310-5		
Client ID:	CV1063B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

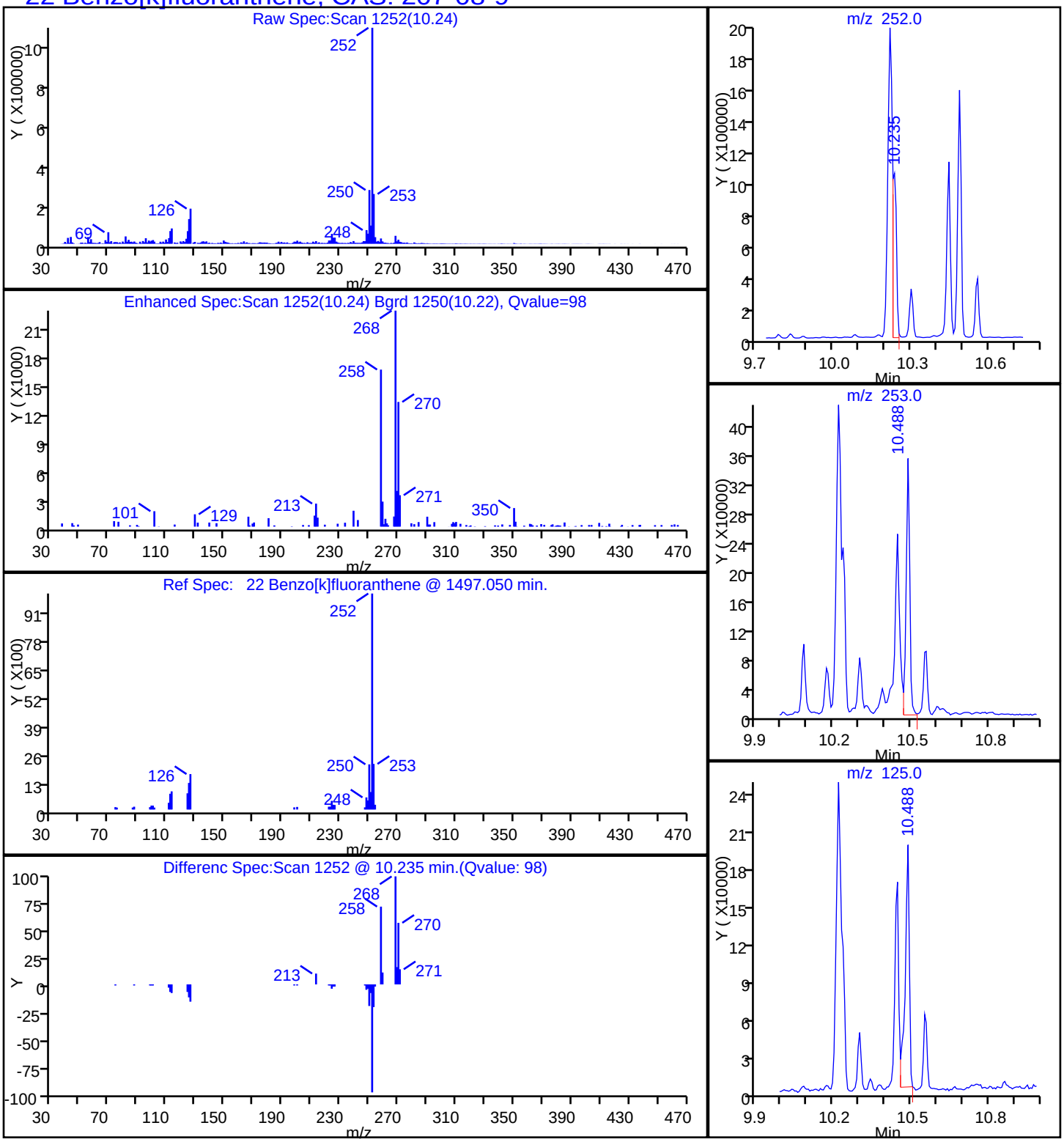


Report Date: 20-Nov-2014 10:09:56 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1925.D				
Injection Date:	19-Nov-2014 21:11:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-5-A	Lab Sample ID:	680-107310-5		
Client ID:	CV1063B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

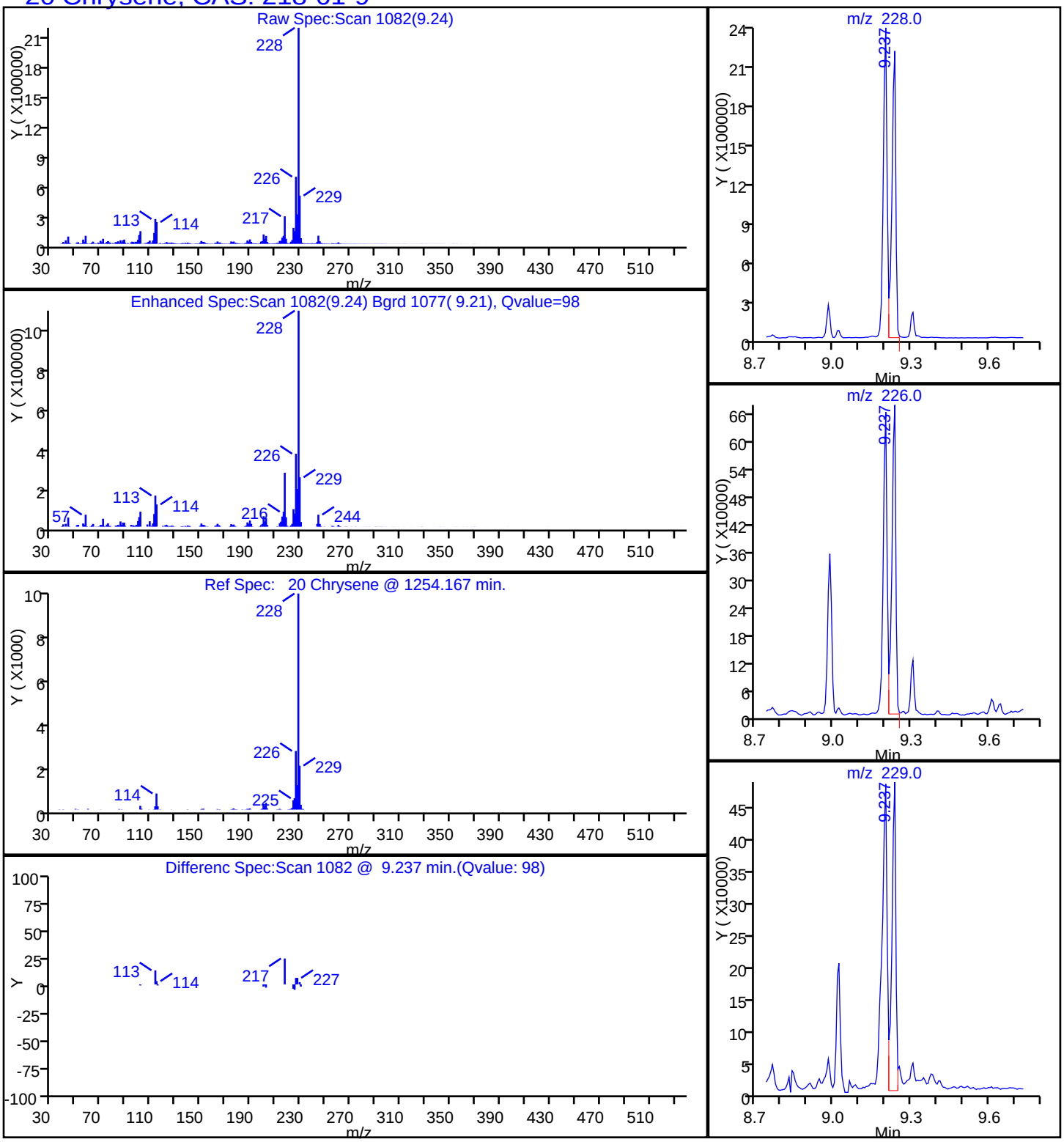


Report Date: 20-Nov-2014 10:09:56 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1925.D				
Injection Date:	19-Nov-2014 21:11:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-5-A	Lab Sample ID:	680-107310-5		
Client ID:	CV1063B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Chrysene, CAS: 218-01-9

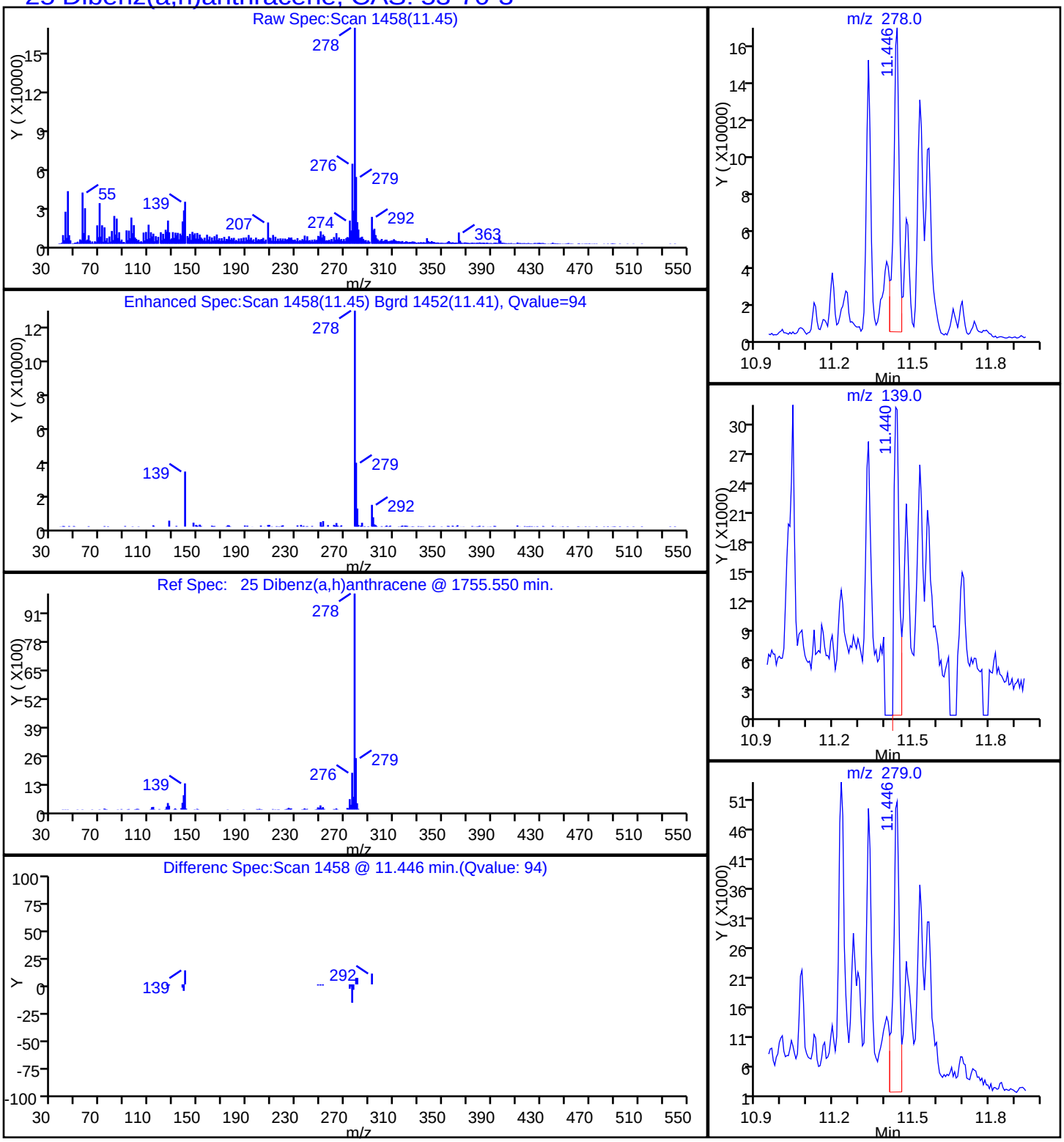


Report Date: 20-Nov-2014 10:09:57 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1925.D				
Injection Date:	19-Nov-2014 21:11:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-5-A	Lab Sample ID:	680-107310-5		
Client ID:	CV1063B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

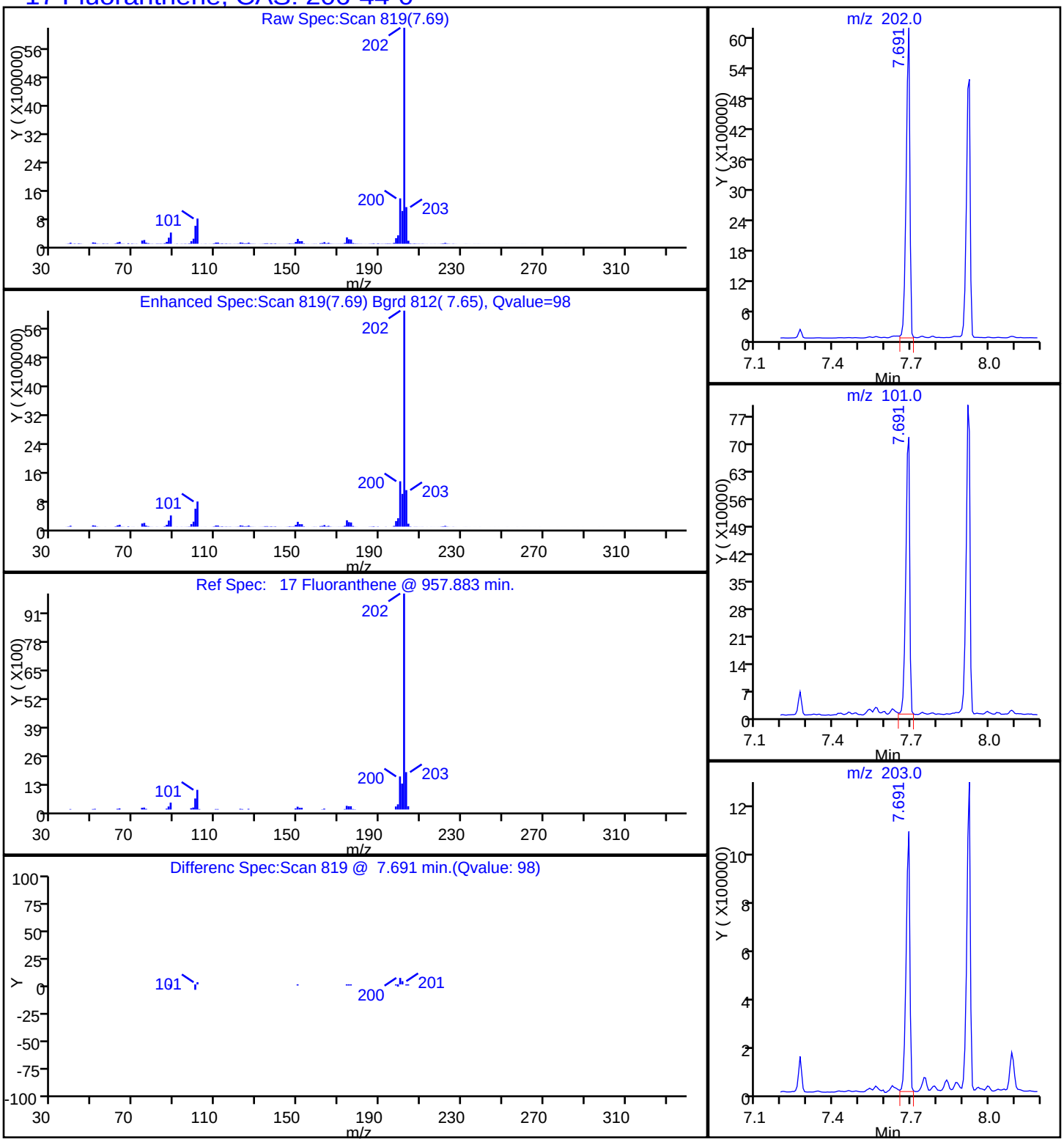


Report Date: 20-Nov-2014 10:09:56 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1925.D				
Injection Date:	19-Nov-2014 21:11:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-5-A	Lab Sample ID:	680-107310-5		
Client ID:	CV1063B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 Fluoranthene, CAS: 206-44-0

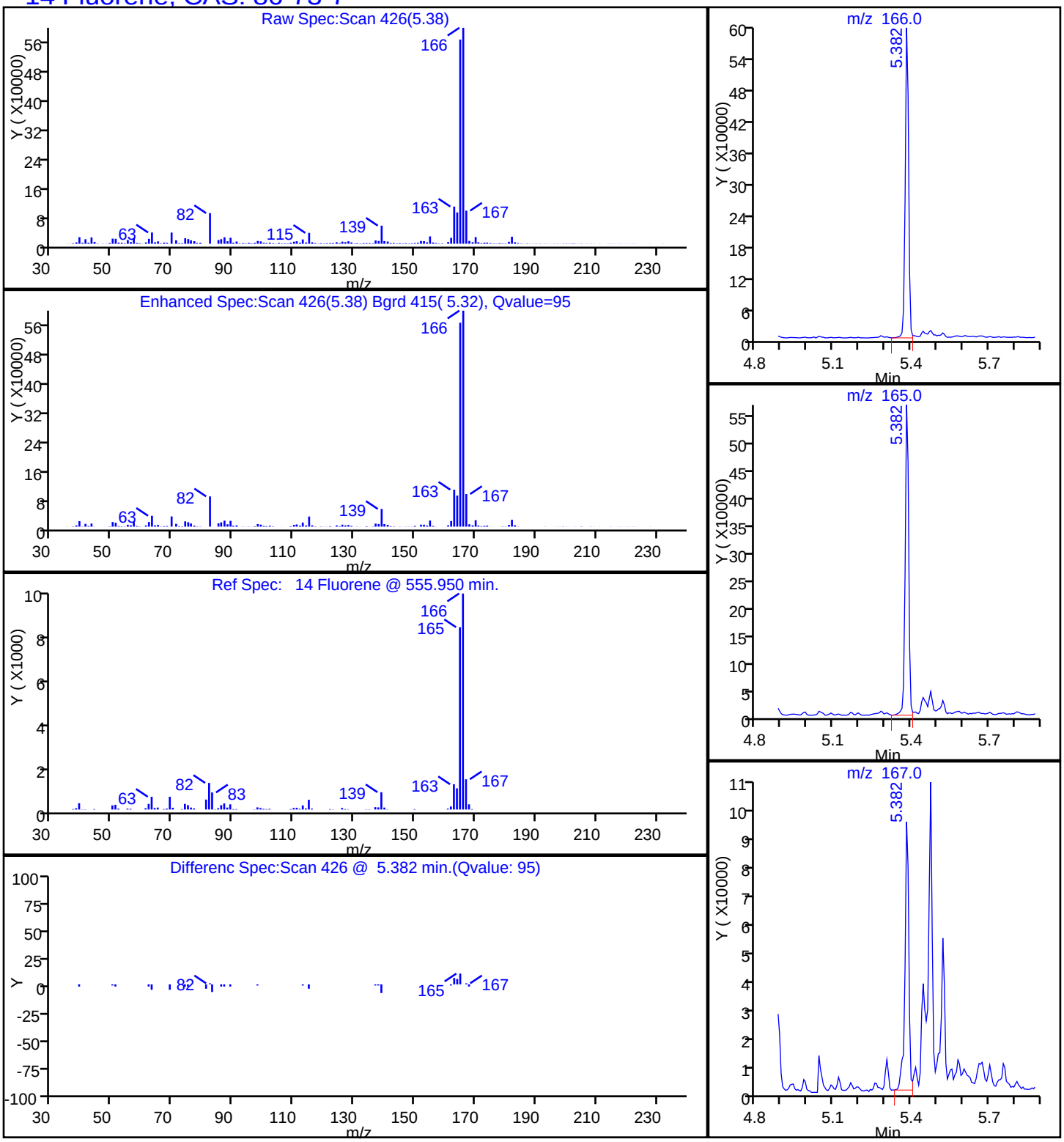


Report Date: 20-Nov-2014 10:09:56 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1925.D				
Injection Date:	19-Nov-2014 21:11:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-5-A	Lab Sample ID:	680-107310-5		
Client ID:	CV1063B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

14 Fluorene, CAS: 86-73-7

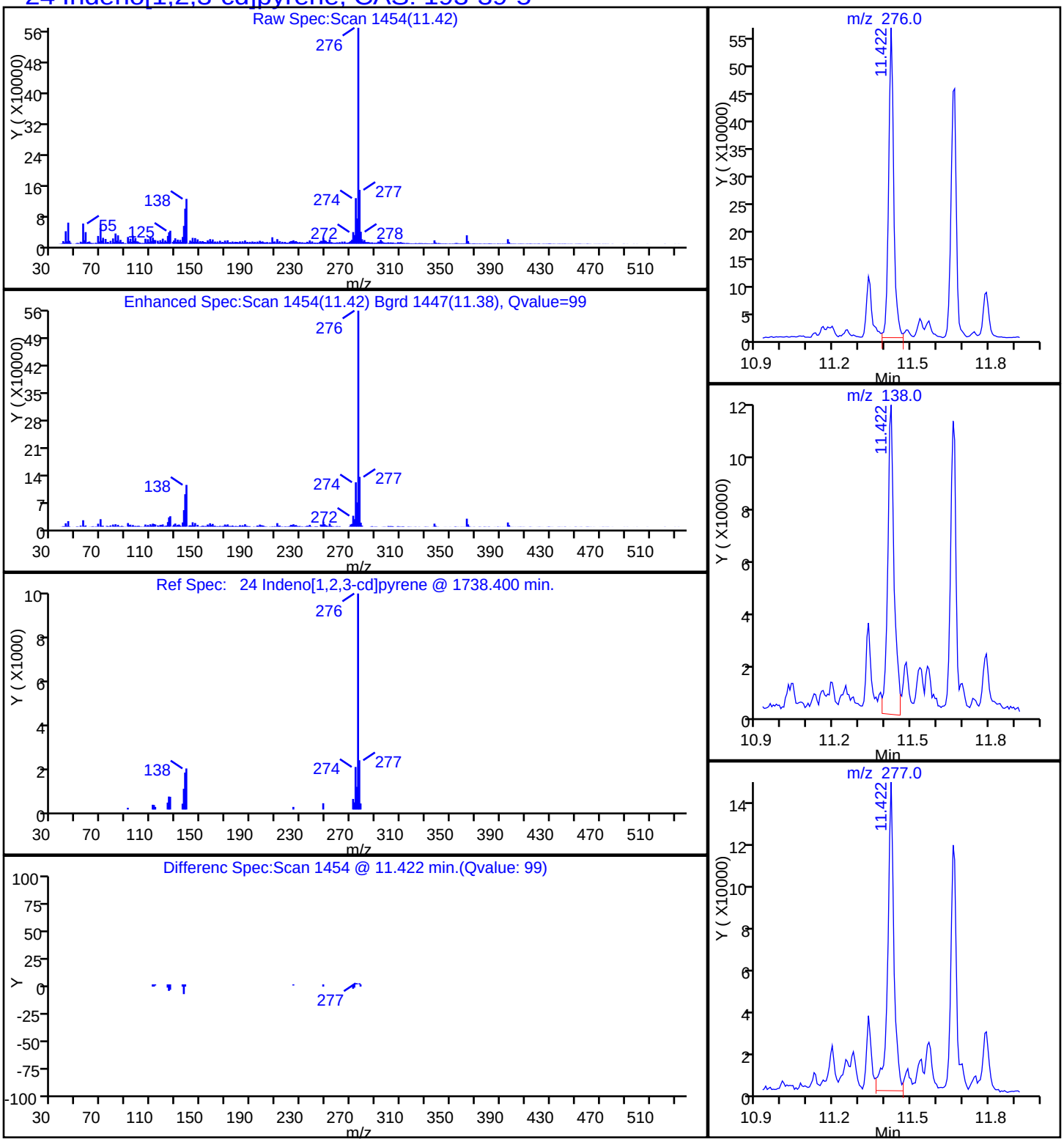


Report Date: 20-Nov-2014 10:09:56 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1925.D				
Injection Date:	19-Nov-2014 21:11:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-5-A	Lab Sample ID:	680-107310-5		
Client ID:	CV1063B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

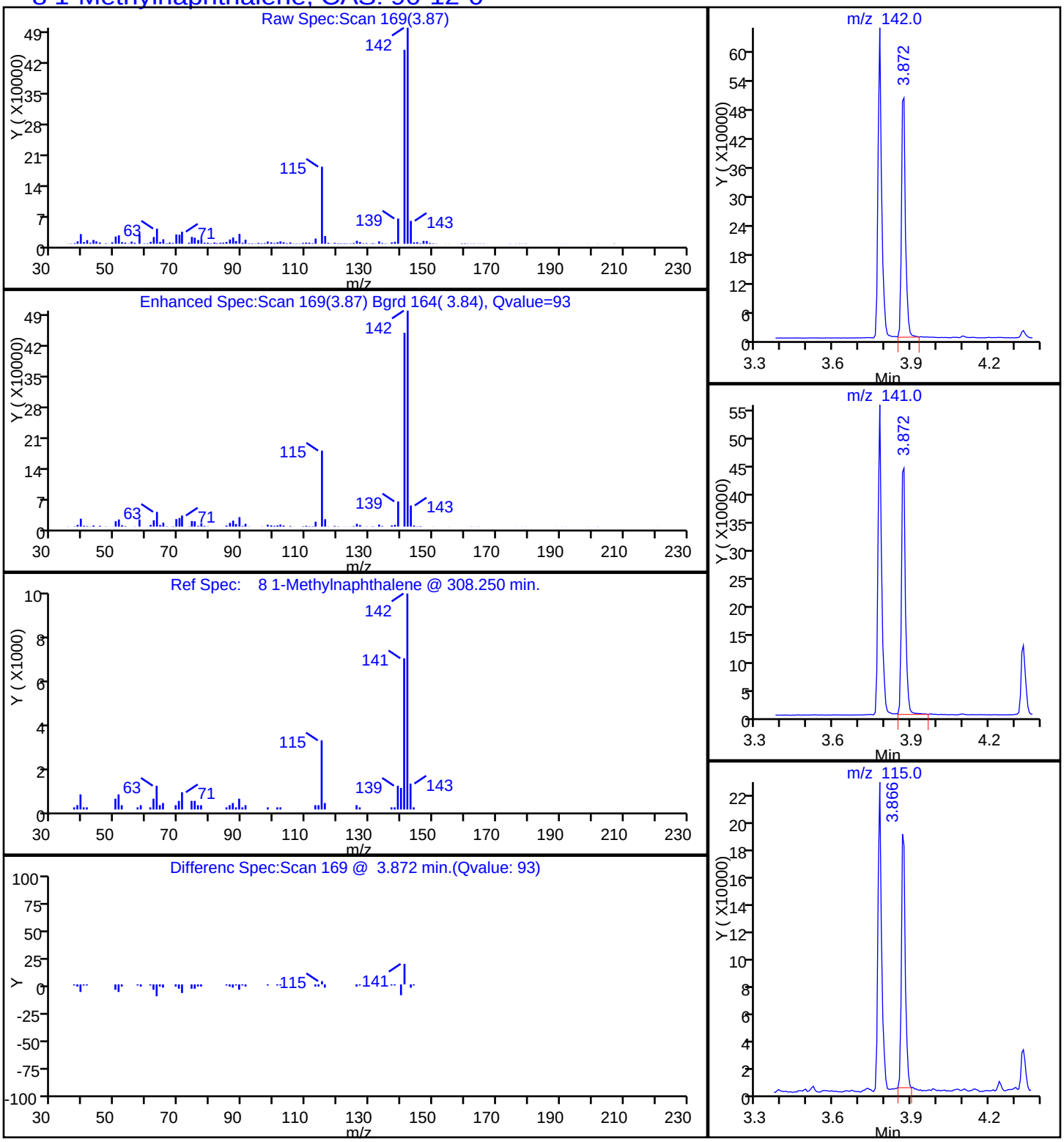


Report Date: 20-Nov-2014 10:09:56 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1925.D				
Injection Date:	19-Nov-2014 21:11:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-5-A	Lab Sample ID:	680-107310-5		
Client ID:	CV1063B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

8 1-Methylnaphthalene, CAS: 90-12-0

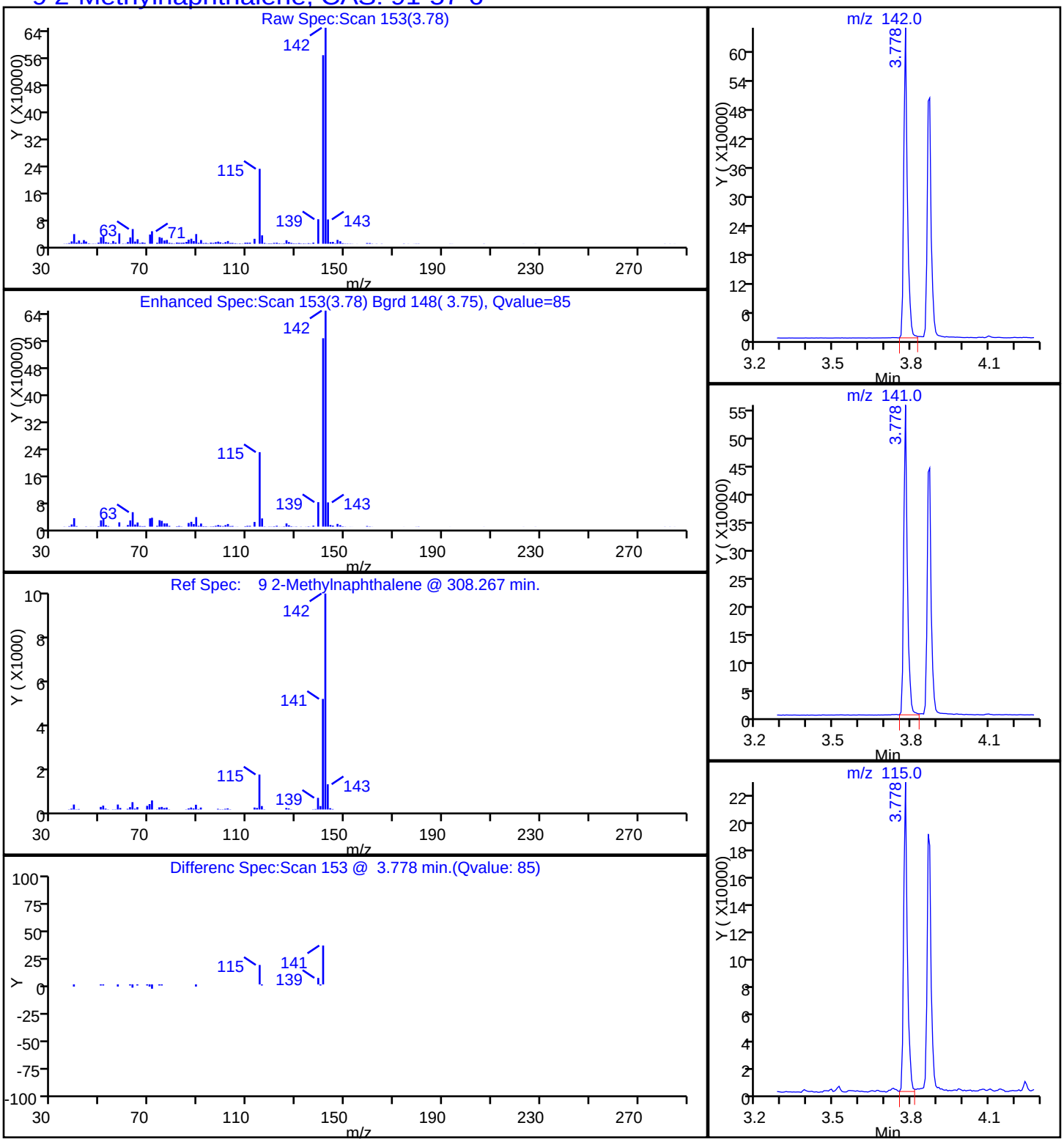


Report Date: 20-Nov-2014 10:09:56 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1925.D				
Injection Date:	19-Nov-2014 21:11:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-5-A	Lab Sample ID:	680-107310-5		
Client ID:	CV1063B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

9 2-Methylnaphthalene, CAS: 91-57-6

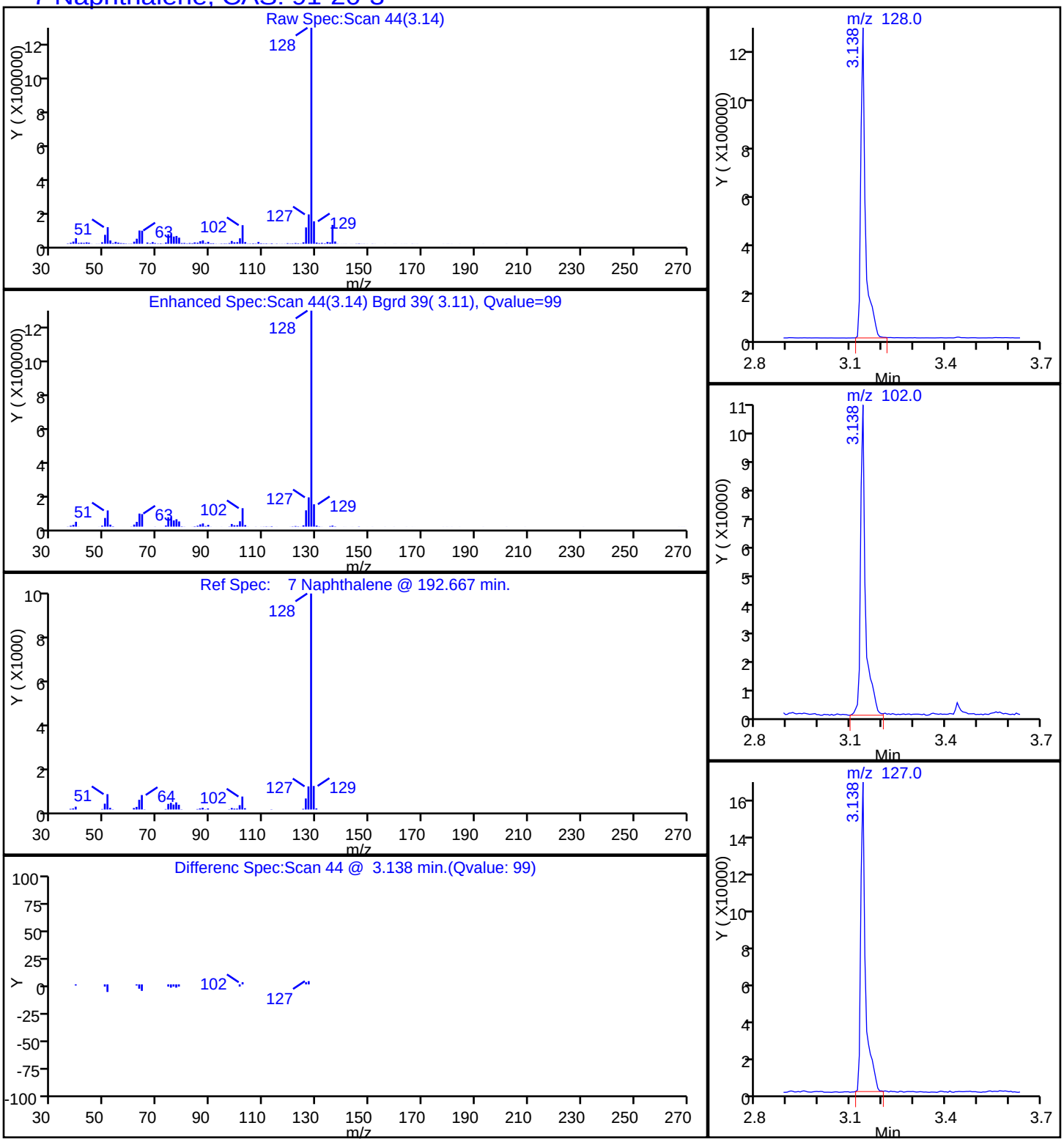


Report Date: 20-Nov-2014 10:09:56 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1925.D				
Injection Date:	19-Nov-2014 21:11:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-5-A	Lab Sample ID:	680-107310-5		
Client ID:	CV1063B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

7 Naphthalene, CAS: 91-20-3

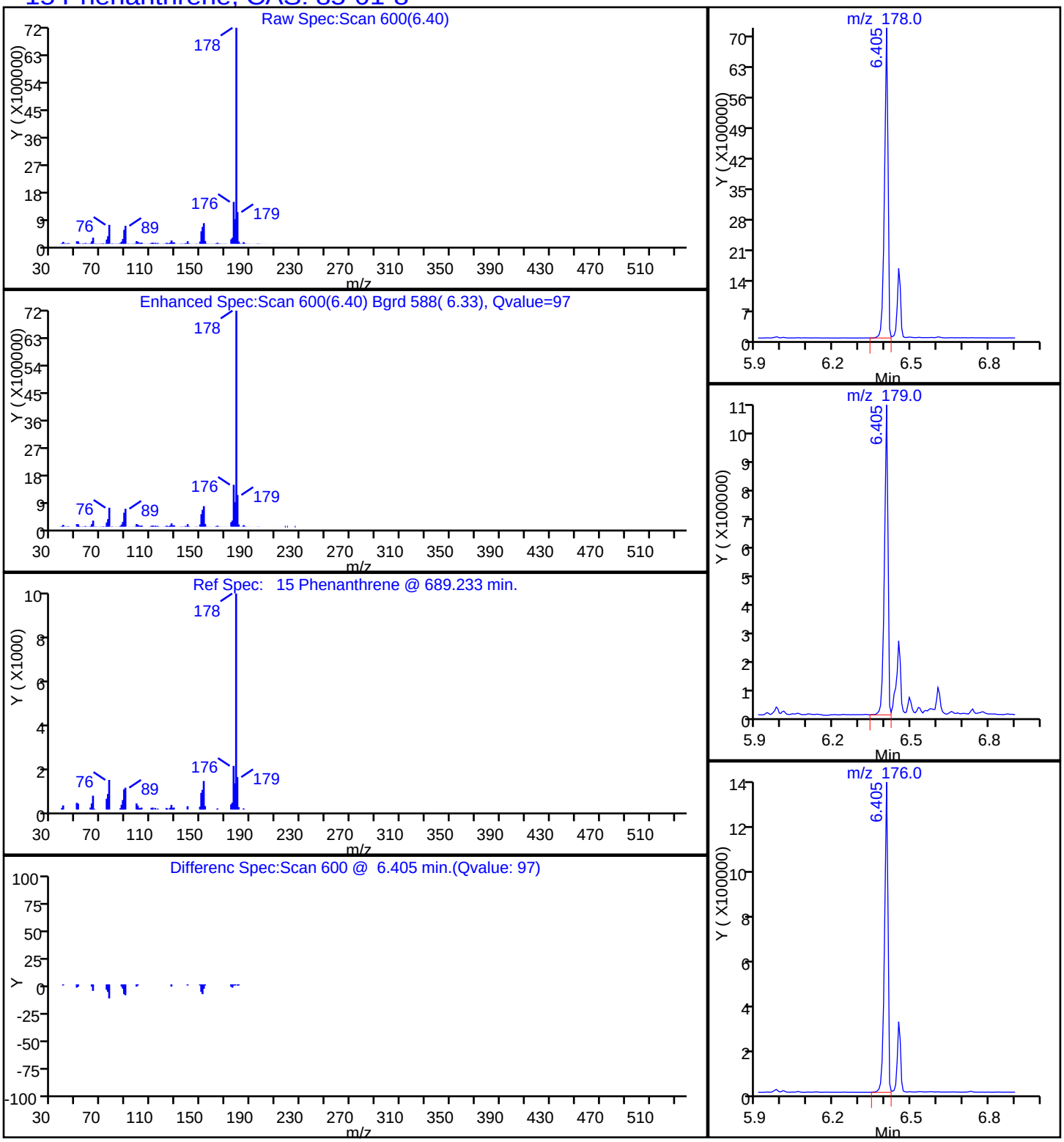


Report Date: 20-Nov-2014 10:09:56 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1925.D				
Injection Date:	19-Nov-2014 21:11:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-5-A	Lab Sample ID:	680-107310-5		
Client ID:	CV1063B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

15 Phenanthrene, CAS: 85-01-8

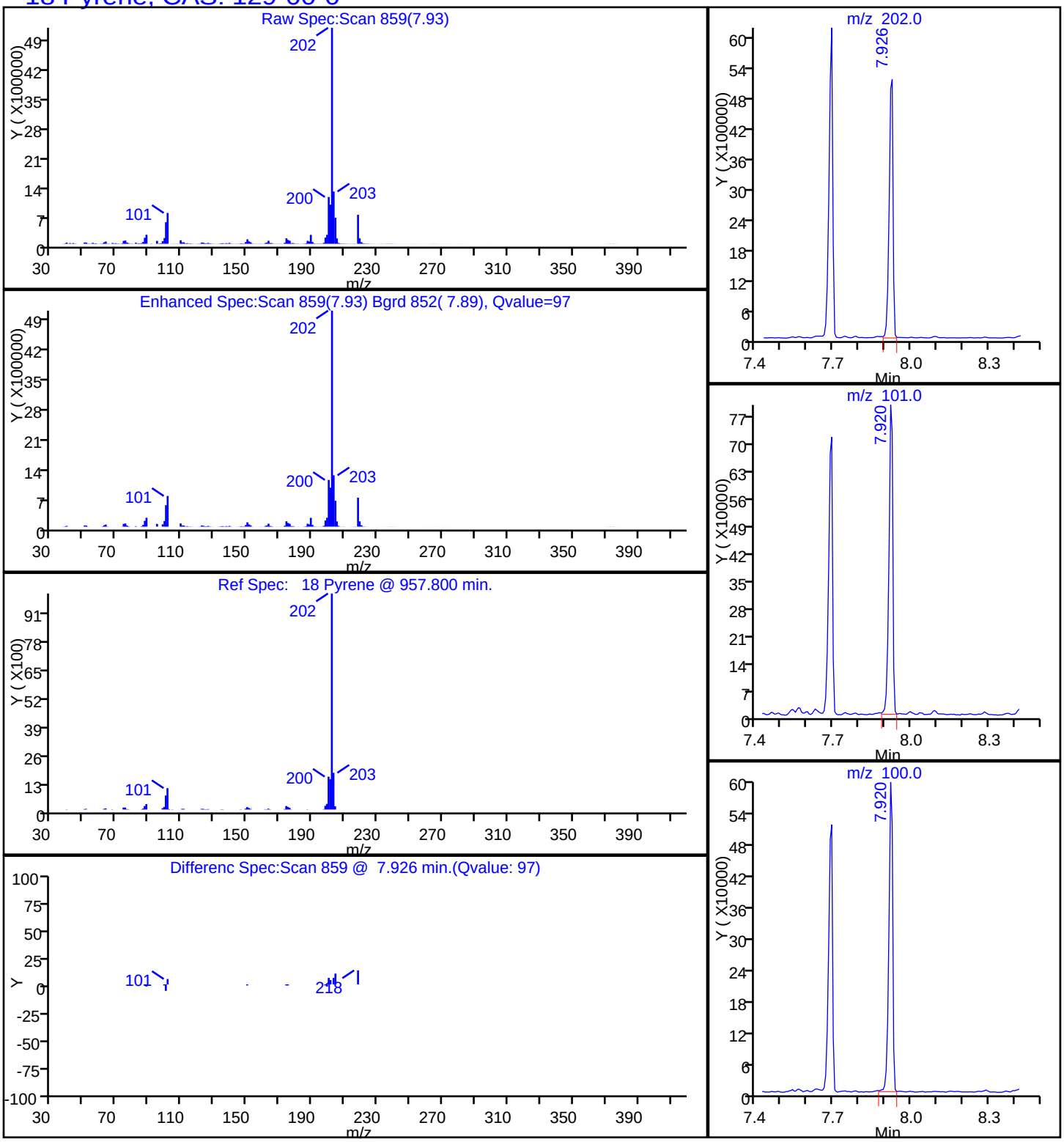


Report Date: 20-Nov-2014 10:09:56 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1925.D				
Injection Date:	19-Nov-2014 21:11:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-5-A	Lab Sample ID:	680-107310-5		
Client ID:	CV1063B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

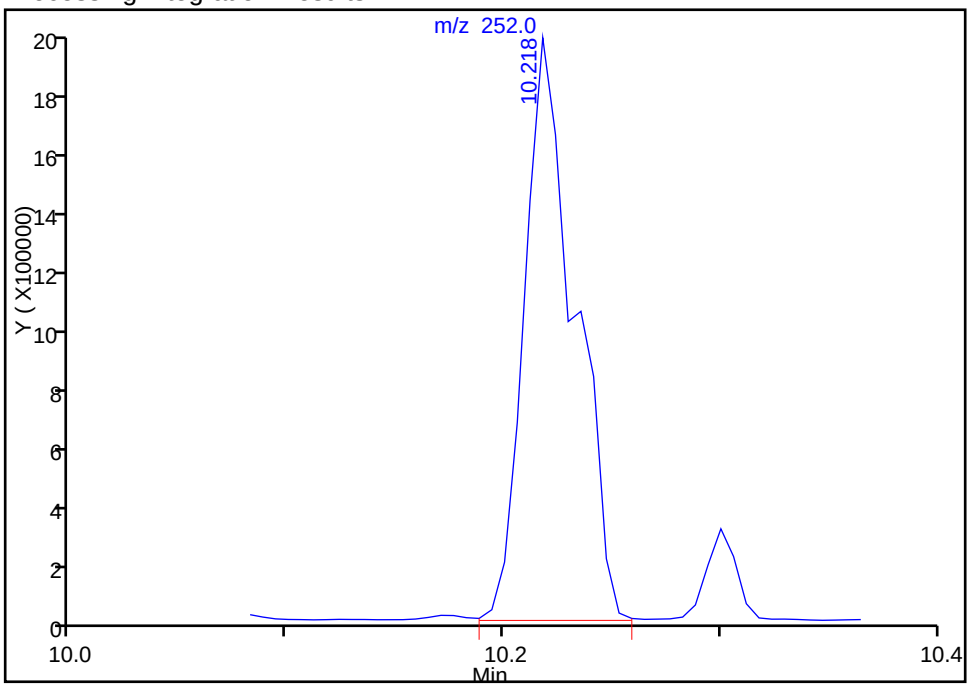
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1925.D				
Injection Date:	19-Nov-2014 21:11:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-5-A	Lab Sample ID:	680-107310-5		
Client ID:	CV1063B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

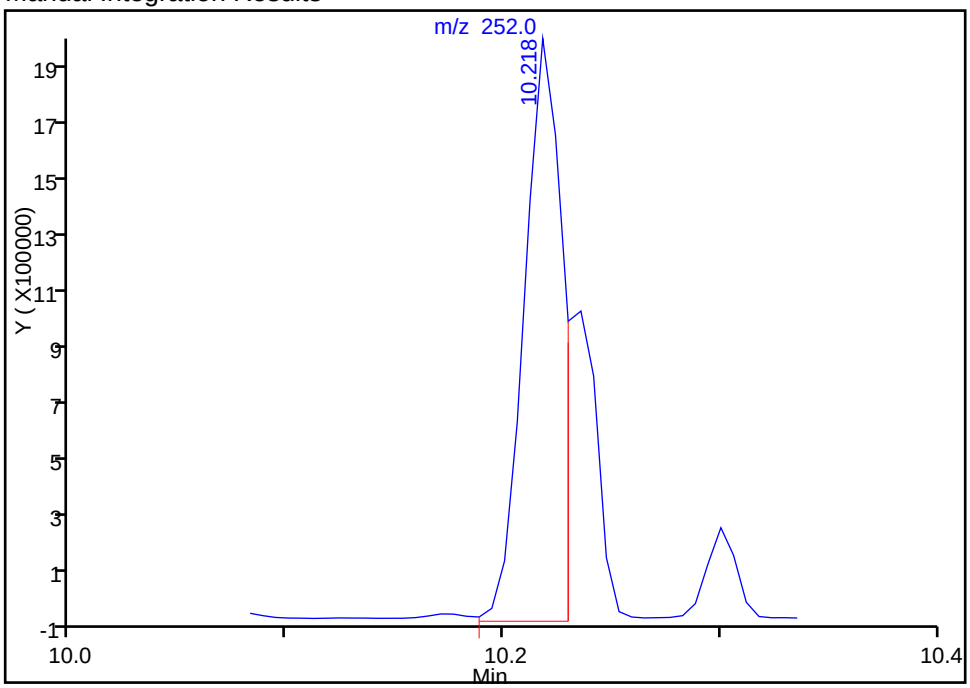
Processing Integration Results

RT: 10.22
Response: 3079345
Amount: 10.449246



Manual Integration Results

RT: 10.22
Response: 2383328
Amount: 7.688172



Reviewer: webbk, 20-Nov-2014 08:24:47
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

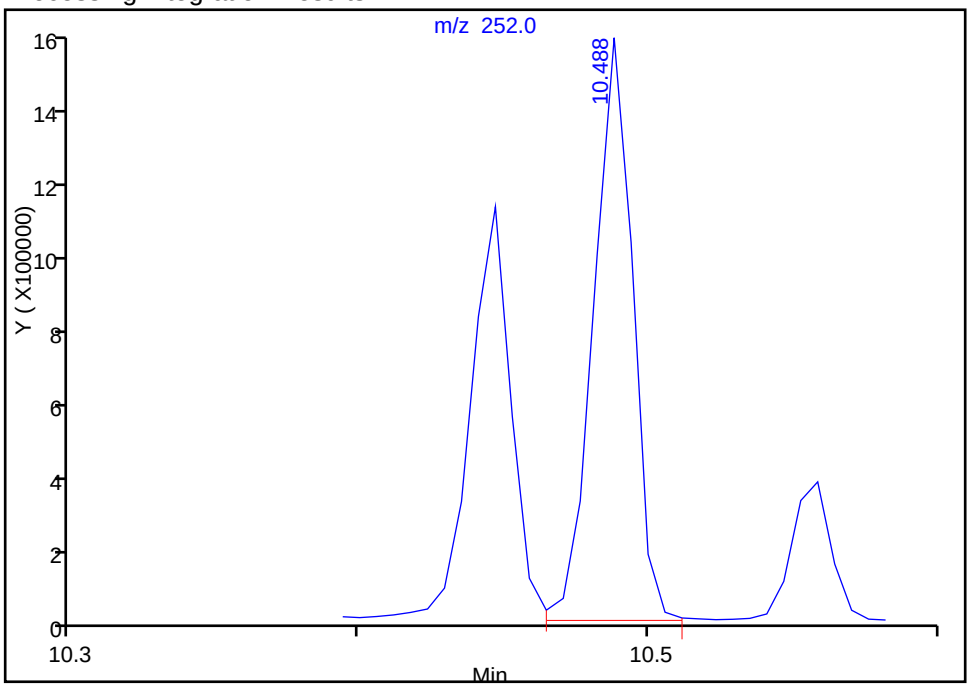
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1925.D				
Injection Date:	19-Nov-2014 21:11:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-5-A	Lab Sample ID:	680-107310-5		
Client ID:	CV1063B-CS0-4"				
Operator ID:	RM	ALS Bottle#:	25	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

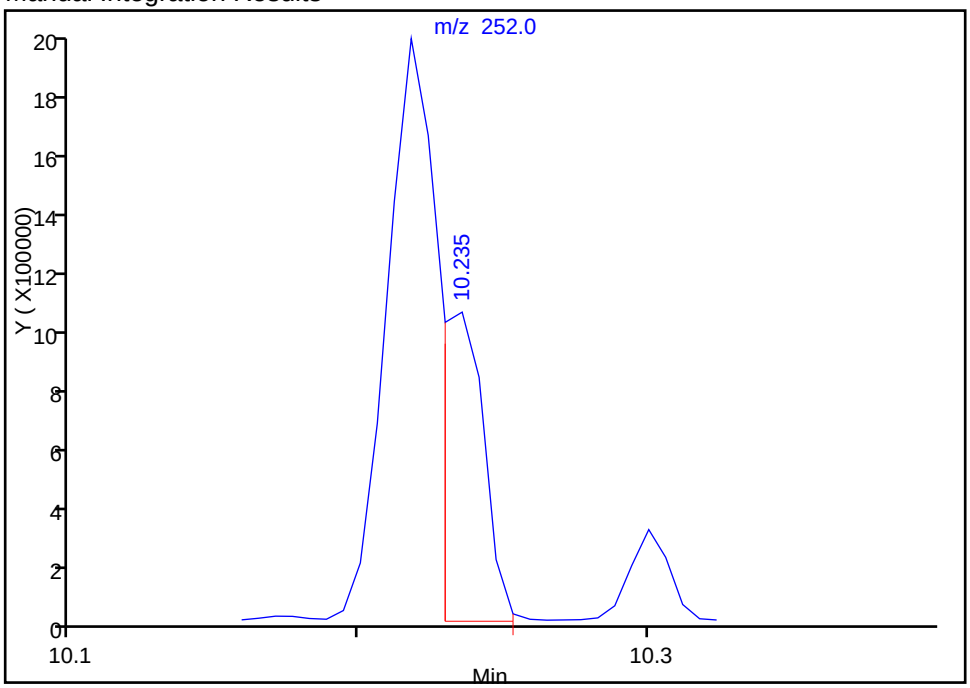
Processing Integration Results

RT: 10.49
Response: 1426323
Amount: 4.761131



Manual Integration Results

RT: 10.24
Response: 1057980
Amount: 3.531585



Reviewer: webbk, 20-Nov-2014 08:24:47
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah | Job No.: 680-107310-1

SDG No.: 680-107310-1

Client Sample ID: CV0971A0APa-CS0-4'' | Lab Sample ID: 680-107310-6

Matrix: Solid | Lab File ID: 2KK1920.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/13/2014 11:45

Extract. Method: 3546 | Date Extracted: 11/17/2014 12:45

Sample wt/vol: 30.01(g) | Date Analyzed: 11/19/2014 19:17

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

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

% Moisture: 15.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359503 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	79	U	79	39
208-96-8	Acenaphthylene	49	J	79	39
120-12-7	Anthracene	79		79	39
56-55-3	Benzo[a]anthracene	480		79	39
50-32-8	Benzo[a]pyrene	560		79	14
205-99-2	Benzo[b]fluoranthene	780		79	39
191-24-2	Benzo[g,h,i]perylene	490		79	39
207-08-9	Benzo[k]fluoranthene	340		79	24
218-01-9	Chrysene	660		79	39
53-70-3	Dibenz(a,h)anthracene	150		79	39
206-44-0	Fluoranthene	790		79	39
86-73-7	Fluorene	79	U	79	39
193-39-5	Indeno[1,2,3-cd]pyrene	450		79	39
90-12-0	1-Methylnaphthalene	72	J	79	37
91-57-6	2-Methylnaphthalene	96		79	39
91-20-3	Naphthalene	90		79	39
85-01-8	Phenanthrene	380		79	28
129-00-0	Pyrene	740		79	39

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\CMSK\20141119-14922.b\2KK1920.D
Lims ID: 680-107310-A-6-A Lab Sample ID: 680-107310-6
Client ID: CV0971A0APa-CS0-4"
Sample Type: Client
Inject. Date: 19-Nov-2014 19:17:30 ALS Bottle#: 20 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 680-107310-A-6-A 1:10
Misc. Info.: 680-0014922-020
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:35 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 20-Nov-2014 08:18:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 1 Naphthalene-d8	136	3.114	3.114	0.000	100	738018	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	92	394113	2.00	
* 3 Phenanthrene-d10	188	6.369	6.363	0.006	98	640358	2.00	
* 4 Chrysene-d12	240	9.201	9.196	0.005	99	563570	2.00	
* 5 Perylene-d12	264	10.523	10.518	0.005	98	439837	2.00	
7 Naphthalene	128	3.137	3.138	-0.001	99	94848	0.2292	
9 2-Methylnaphthalene	142	3.772	3.778	-0.006	87	61223	0.2430	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	91	41838	0.1824	
10 1,1'-Biphenyl	154	4.242	4.242	0.000	97	15444	0.0490	
11 Acenaphthylene	152	4.659	4.654	0.005	97	52083	0.1249	
12 Acenaphthene	153	4.841	4.842	-0.001	93	15004	0.0606	
13 Dibenzofuran	168	5.024	5.024	0.000	100	33654	0.0921	
15 Phenanthrene	178	6.393	6.393	-0.001	98	375237	0.9695	
16 Anthracene	178	6.445	6.446	-0.001	98	79093	0.2008	
17 Fluoranthene	202	7.673	7.674	-0.001	97	821848	2.01	
18 Pyrene	202	7.908	7.909	-0.001	97	743928	1.89	
19 Benzo[a]anthracene	228	9.189	9.190	-0.001	99	383205	1.22	
20 Chrysene	228	9.225	9.225	0.000	99	498384	1.69	
21 Benzo[b]fluoranthene	252	10.206	10.200	0.006	98	562676	1.98	M
22 Benzo[k]fluoranthene	252	10.218	10.224	-0.006	99	250096	0.8570	M
23 Benzo[a]pyrene	252	10.476	10.471	0.006	98	338255	1.42	
24 Indeno[1,2,3-cd]pyrene	276	11.404	11.399	0.005	99	231670	1.14	
25 Dibenz(a,h)anthracene	278	11.428	11.422	0.006	92	63234	0.3890	
26 Benzo[g,h,i]perylene	276	11.651	11.634	0.017	98	229108	1.24	
31 Benzidine_T	184	5.353	5.312	0.041	0	3190	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

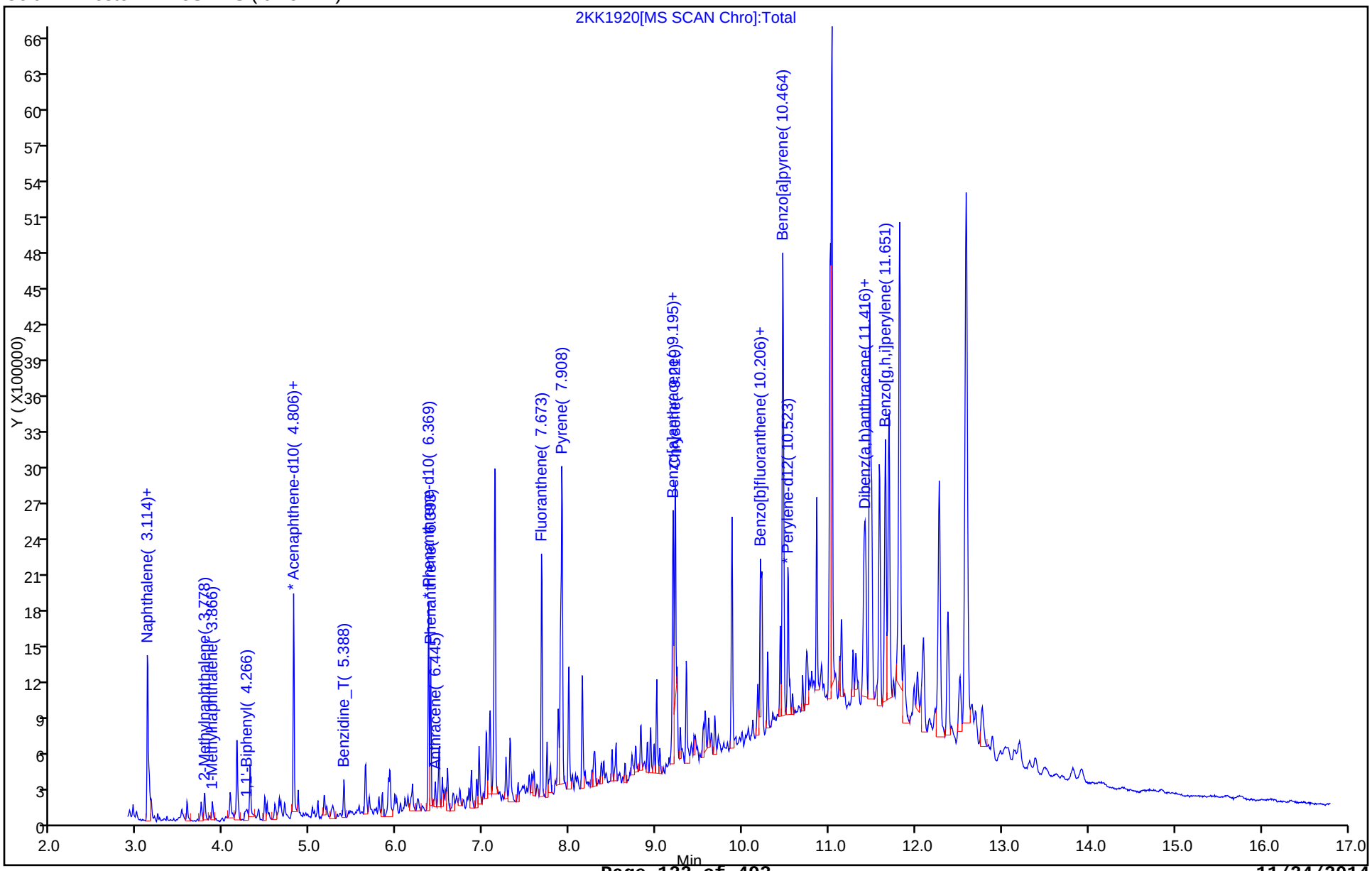
SM-LLISTD_00114	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Nov-2014 10:09:42 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1920.D				
Injection Date:	19-Nov-2014 19:17:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-107310-A-6-A	Lab Sample ID:	680-107310-6	Worklist Smp#:	20
Client ID:	CV0971A0APa-CS0-4"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	20
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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

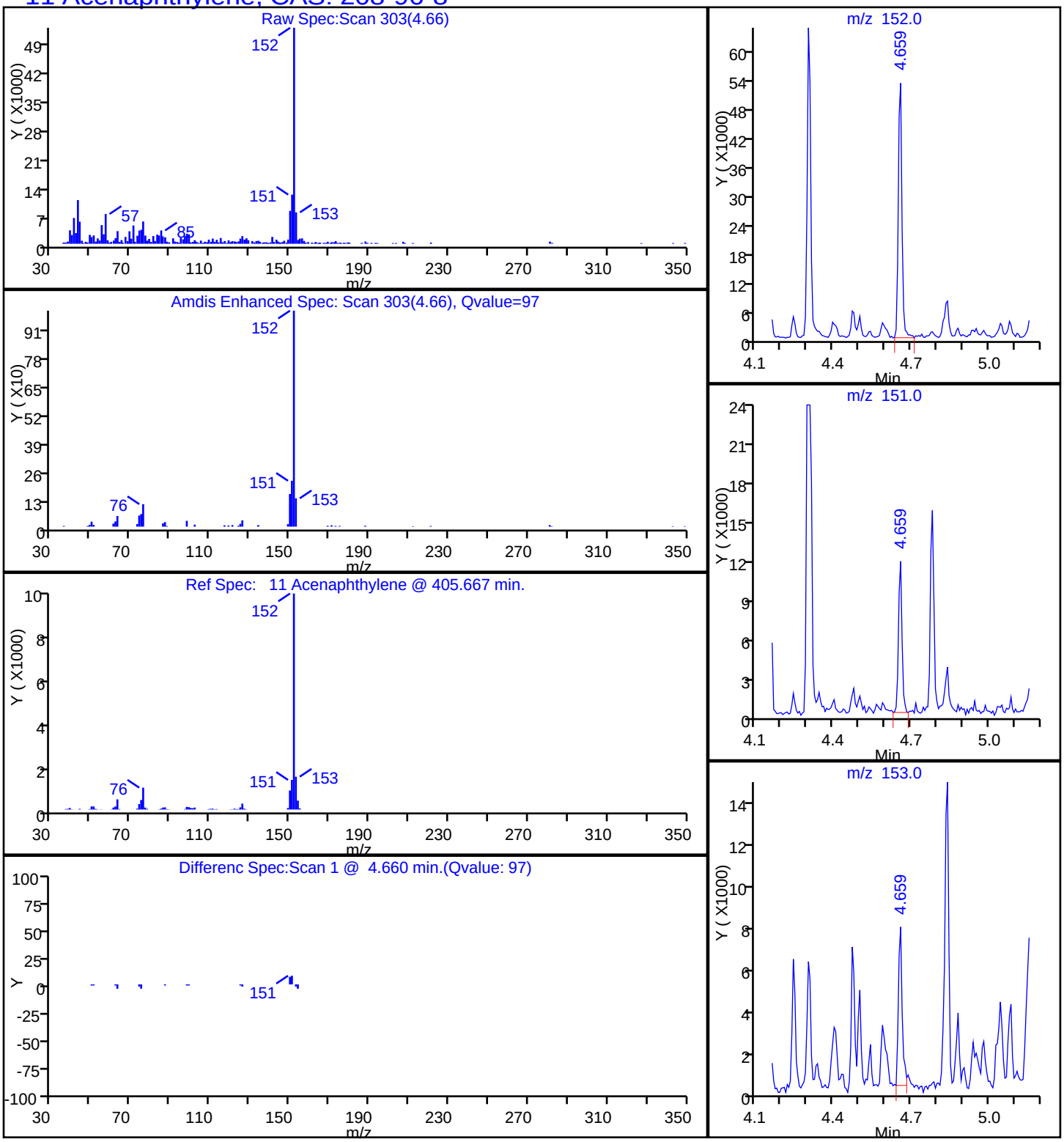


Report Date: 20-Nov-2014 10:09:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1920.D				
Injection Date:	19-Nov-2014 19:17:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-6-A	Lab Sample ID:	680-107310-6		
Client ID:	CV0971A0APa-CS0-4"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

11 Acenaphthylene, CAS: 208-96-8

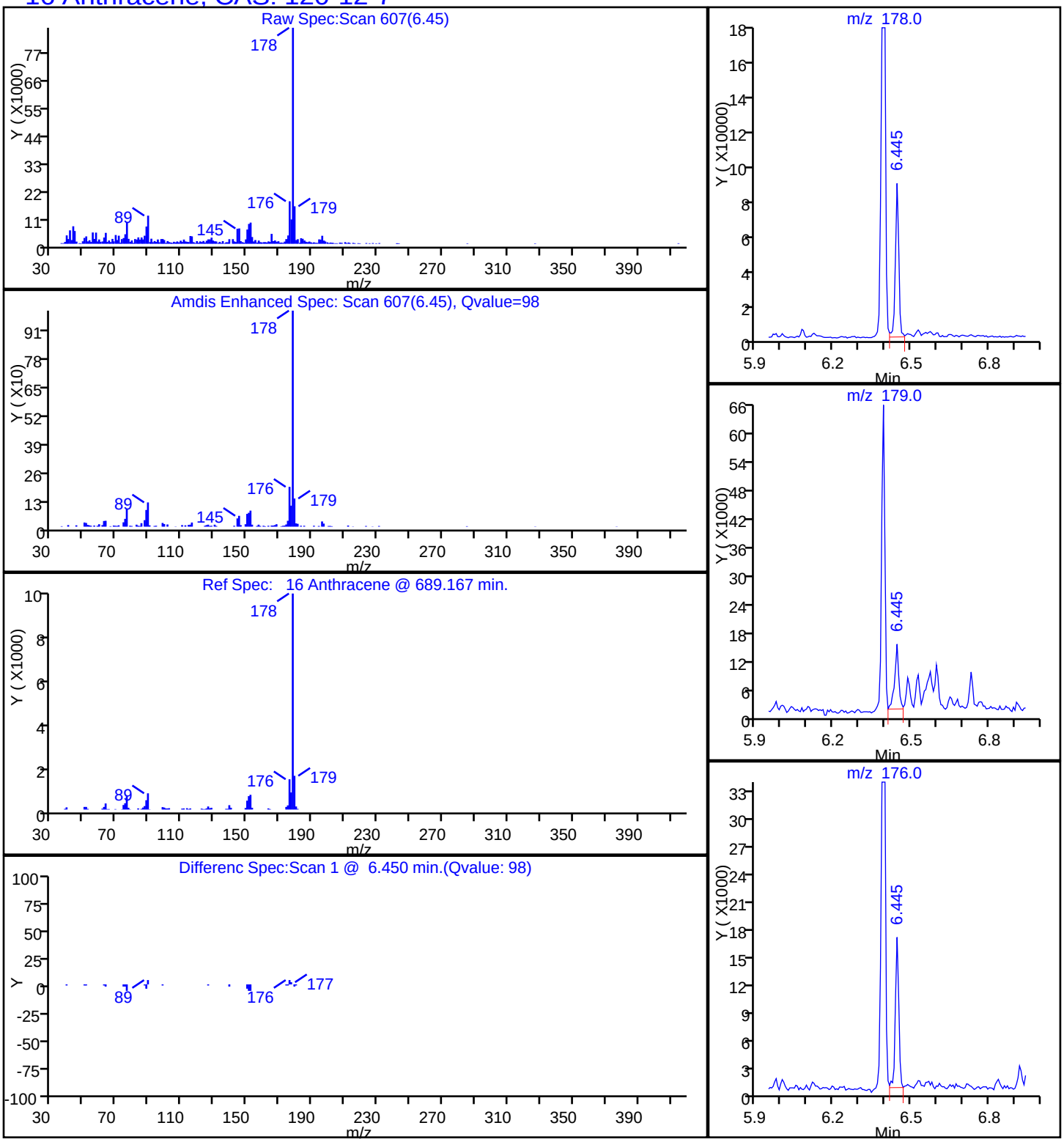


Report Date: 20-Nov-2014 10:09:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1920.D				
Injection Date:	19-Nov-2014 19:17:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-6-A	Lab Sample ID:	680-107310-6		
Client ID:	CV0971A0APa-CS0-4"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

16 Anthracene, CAS: 120-12-7

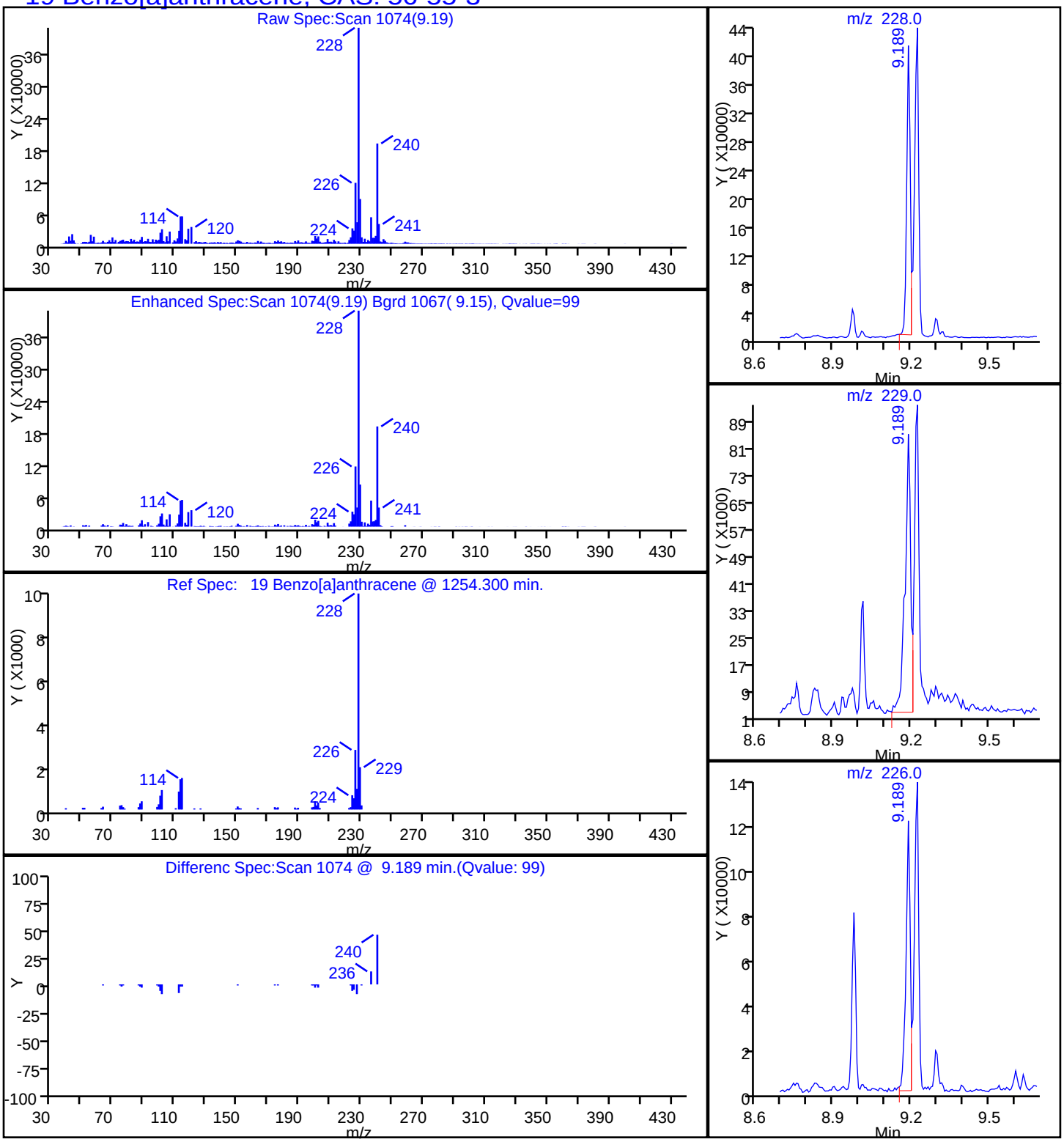


Report Date: 20-Nov-2014 10:09:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1920.D				
Injection Date:	19-Nov-2014 19:17:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-6-A	Lab Sample ID:	680-107310-6		
Client ID:	CV0971A0APa-CS0-4"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

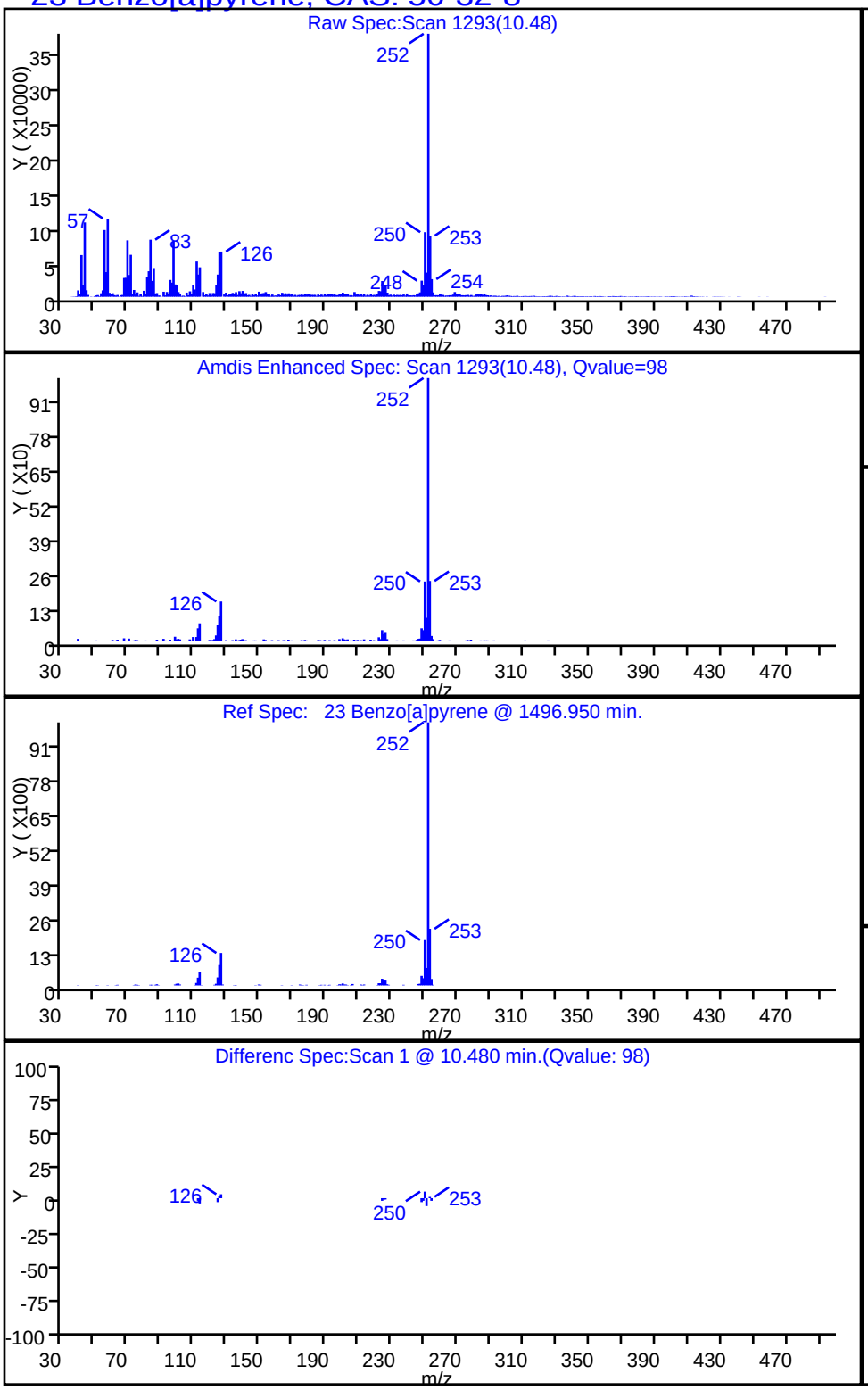


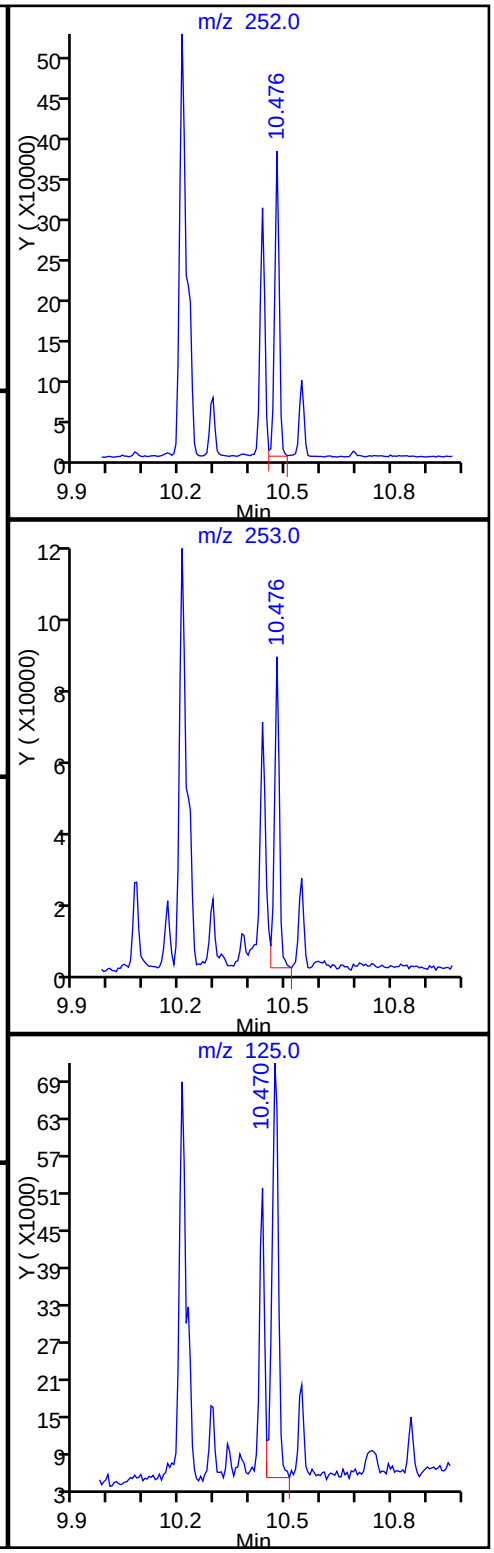
Report Date: 20-Nov-2014 10:09:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1920.D				
Injection Date:	19-Nov-2014 19:17:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-6-A	Lab Sample ID:	680-107310-6		
Client ID:	CV0971A0APa-CS0-4"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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



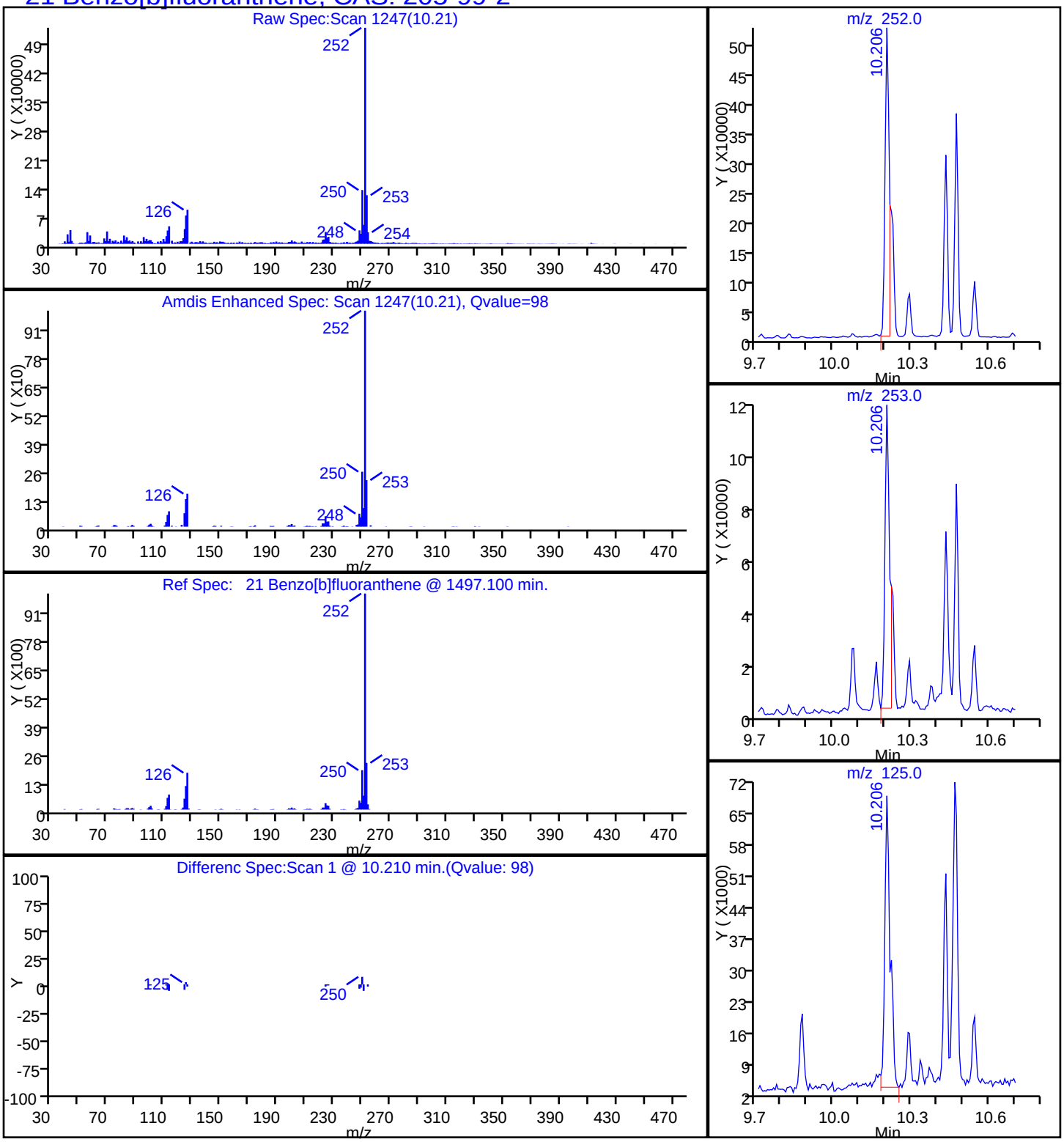


Report Date: 20-Nov-2014 10:09:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1920.D				
Injection Date:	19-Nov-2014 19:17:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-6-A	Lab Sample ID:	680-107310-6		
Client ID:	CV0971A0APa-CS0-4"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

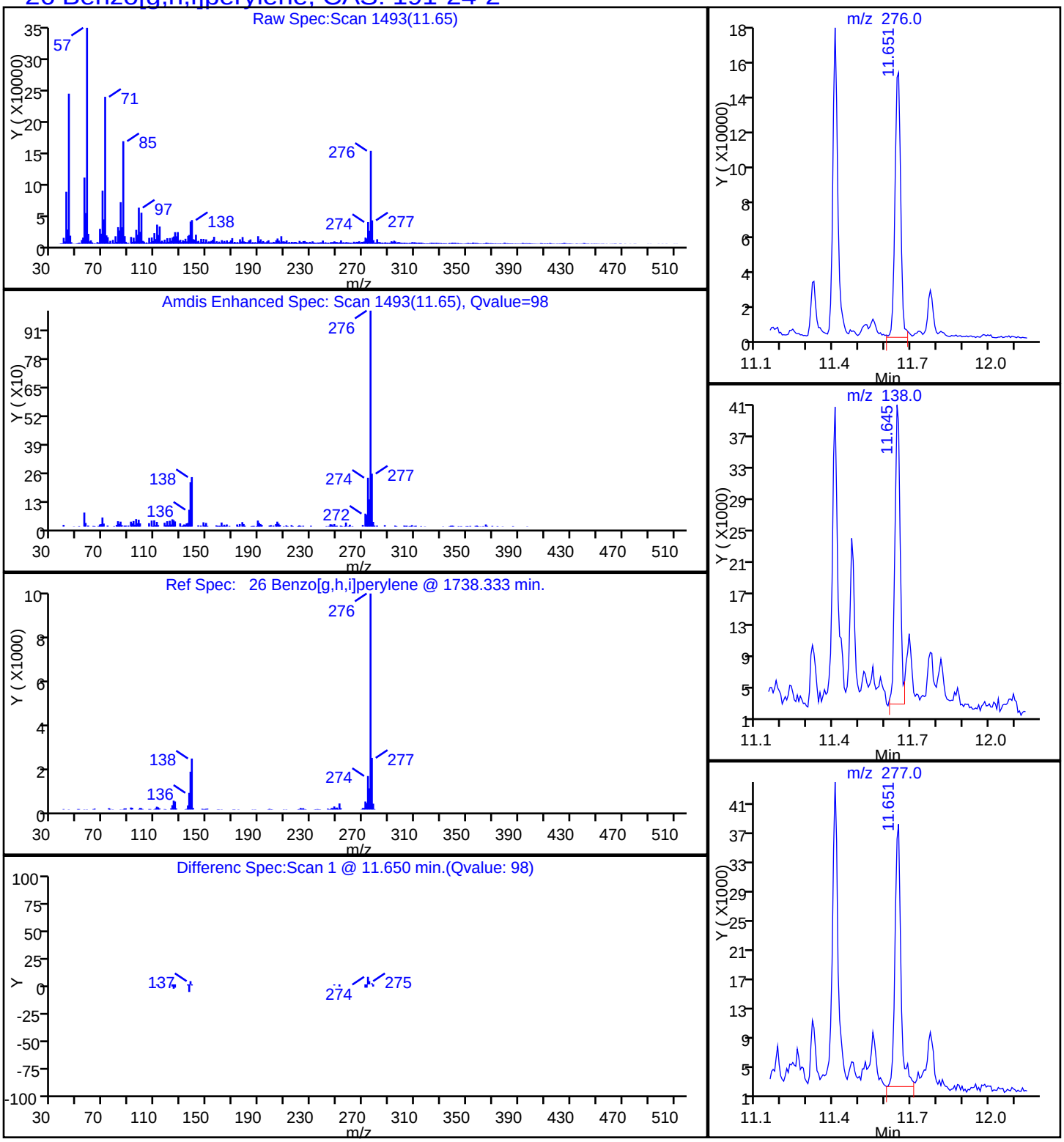


Report Date: 20-Nov-2014 10:09:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1920.D				
Injection Date:	19-Nov-2014 19:17:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-6-A	Lab Sample ID:	680-107310-6		
Client ID:	CV0971A0APa-CS0-4"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

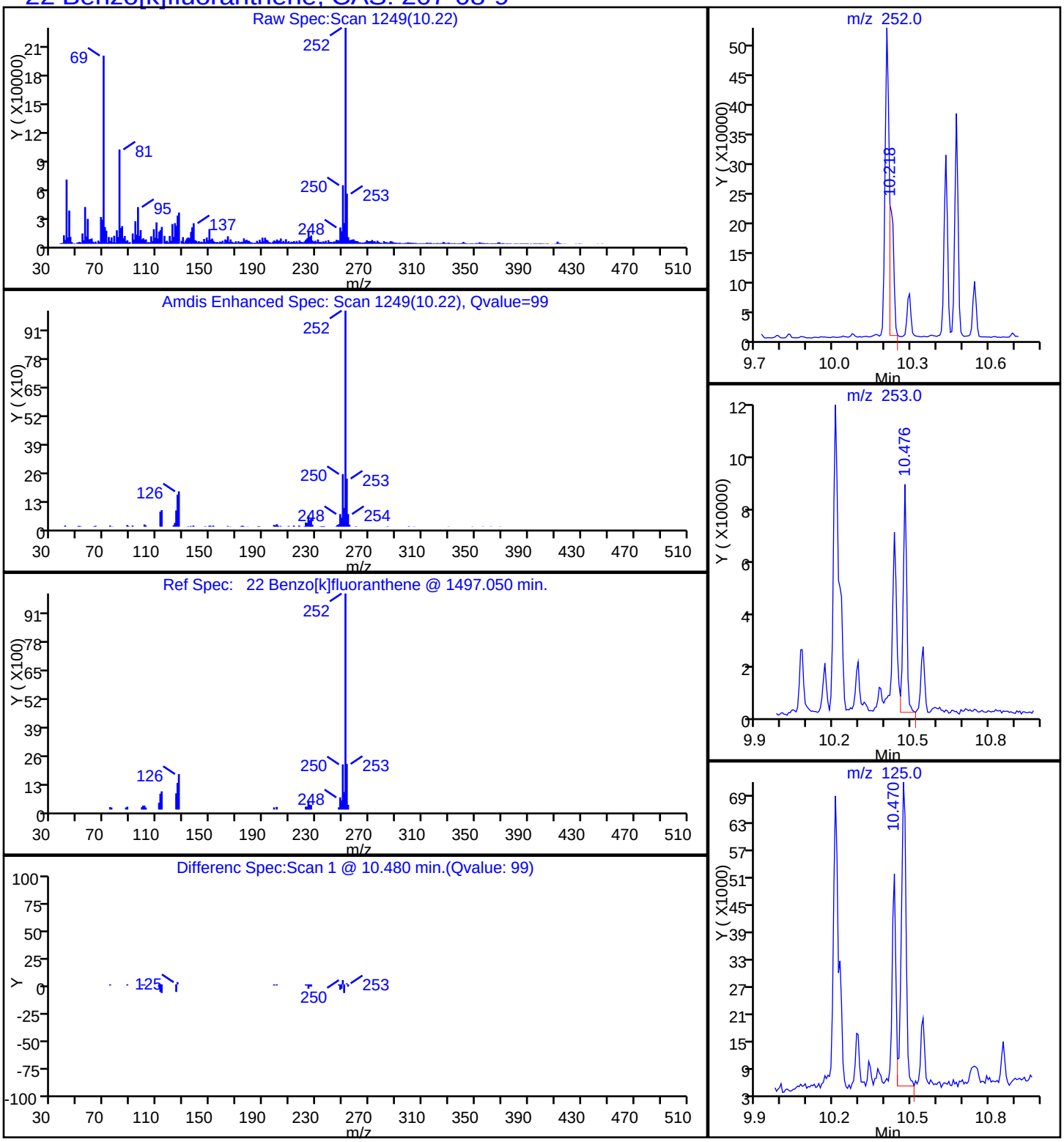


Report Date: 20-Nov-2014 10:09:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1920.D				
Injection Date:	19-Nov-2014 19:17:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-6-A	Lab Sample ID:	680-107310-6		
Client ID:	CV0971A0APa-CS0-4"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

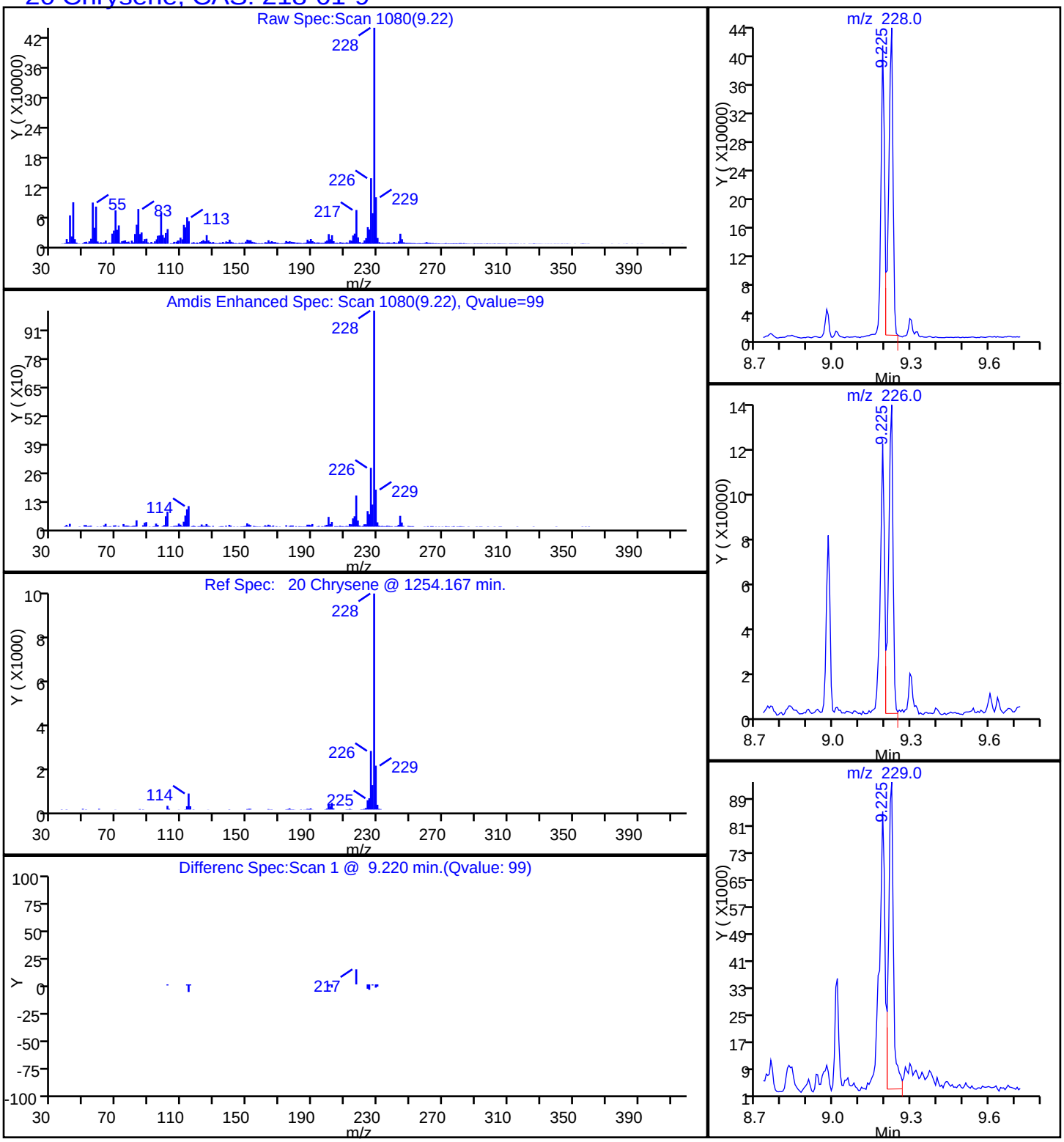


Report Date: 20-Nov-2014 10:09:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1920.D				
Injection Date:	19-Nov-2014 19:17:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-6-A	Lab Sample ID:	680-107310-6		
Client ID:	CV0971A0APa-CS0-4"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

20 Chrysene, CAS: 218-01-9

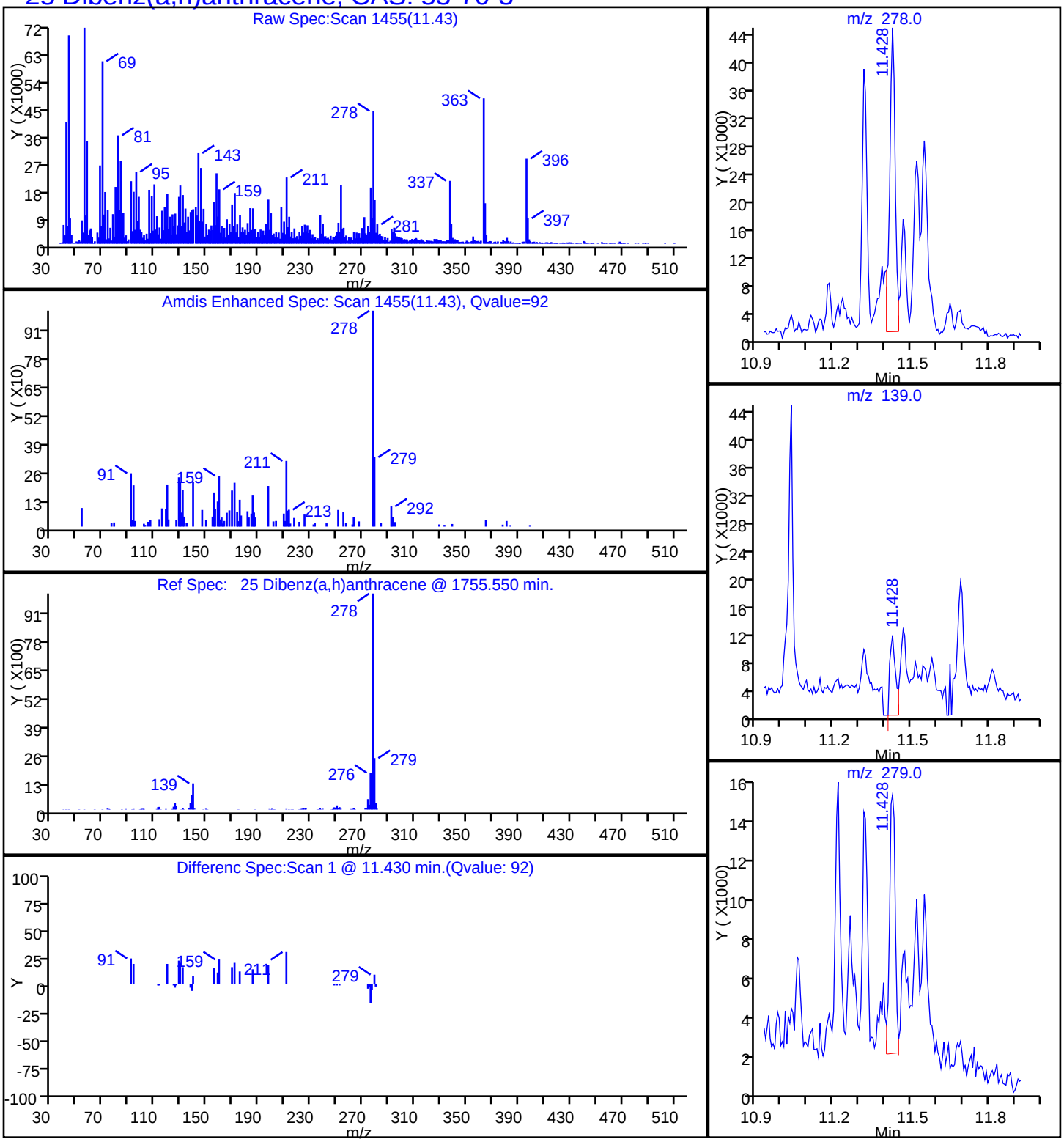


Report Date: 20-Nov-2014 10:09:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1920.D				
Injection Date:	19-Nov-2014 19:17:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-6-A	Lab Sample ID:	680-107310-6		
Client ID:	CV0971A0APa-CS0-4"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

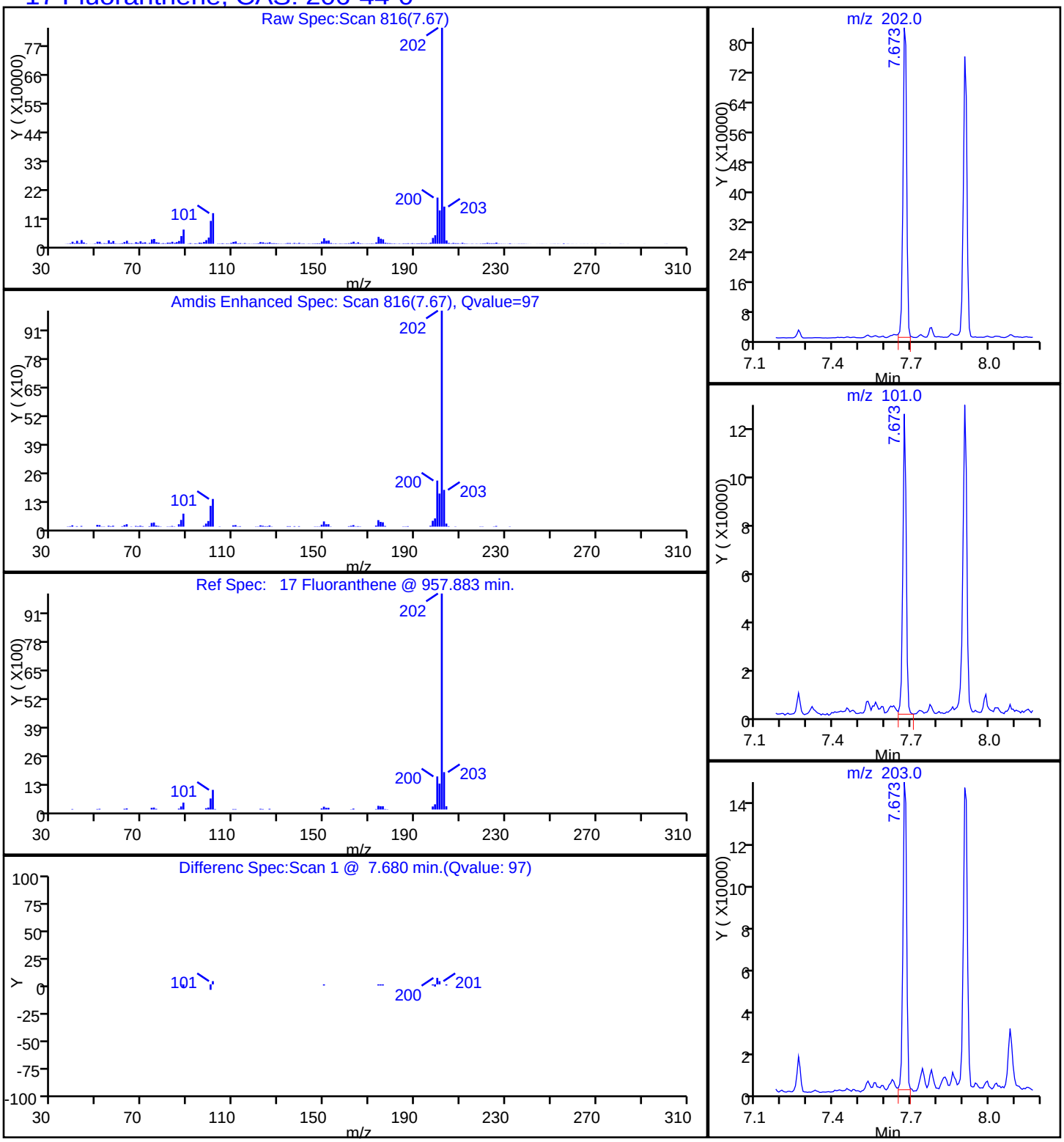


Report Date: 20-Nov-2014 10:09:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1920.D				
Injection Date:	19-Nov-2014 19:17:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-6-A	Lab Sample ID:	680-107310-6		
Client ID:	CV0971A0APa-CS0-4"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

17 Fluoranthene, CAS: 206-44-0

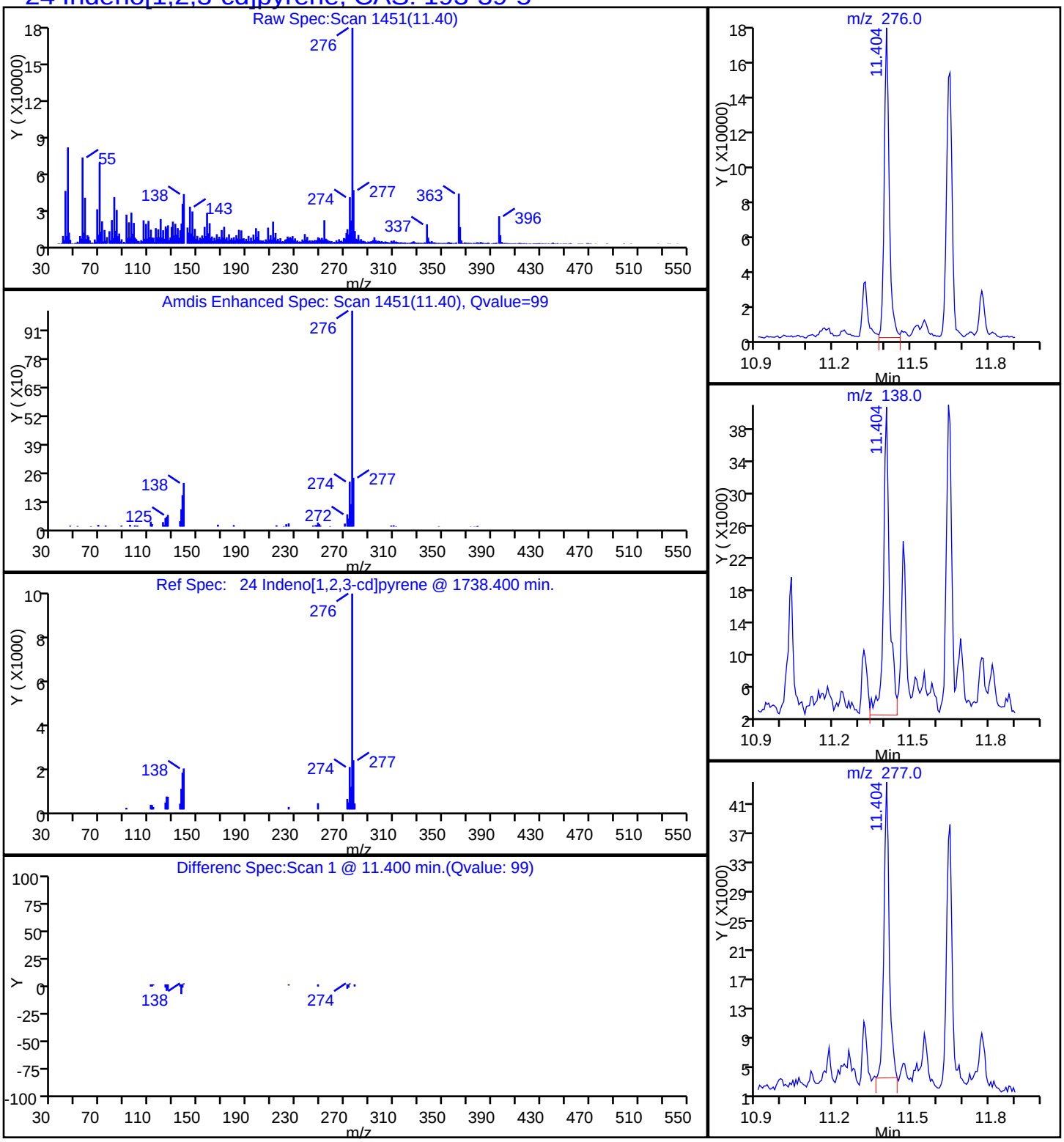


Report Date: 20-Nov-2014 10:09:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1920.D				
Injection Date:	19-Nov-2014 19:17:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-6-A	Lab Sample ID:	680-107310-6		
Client ID:	CV0971A0APa-CS0-4"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

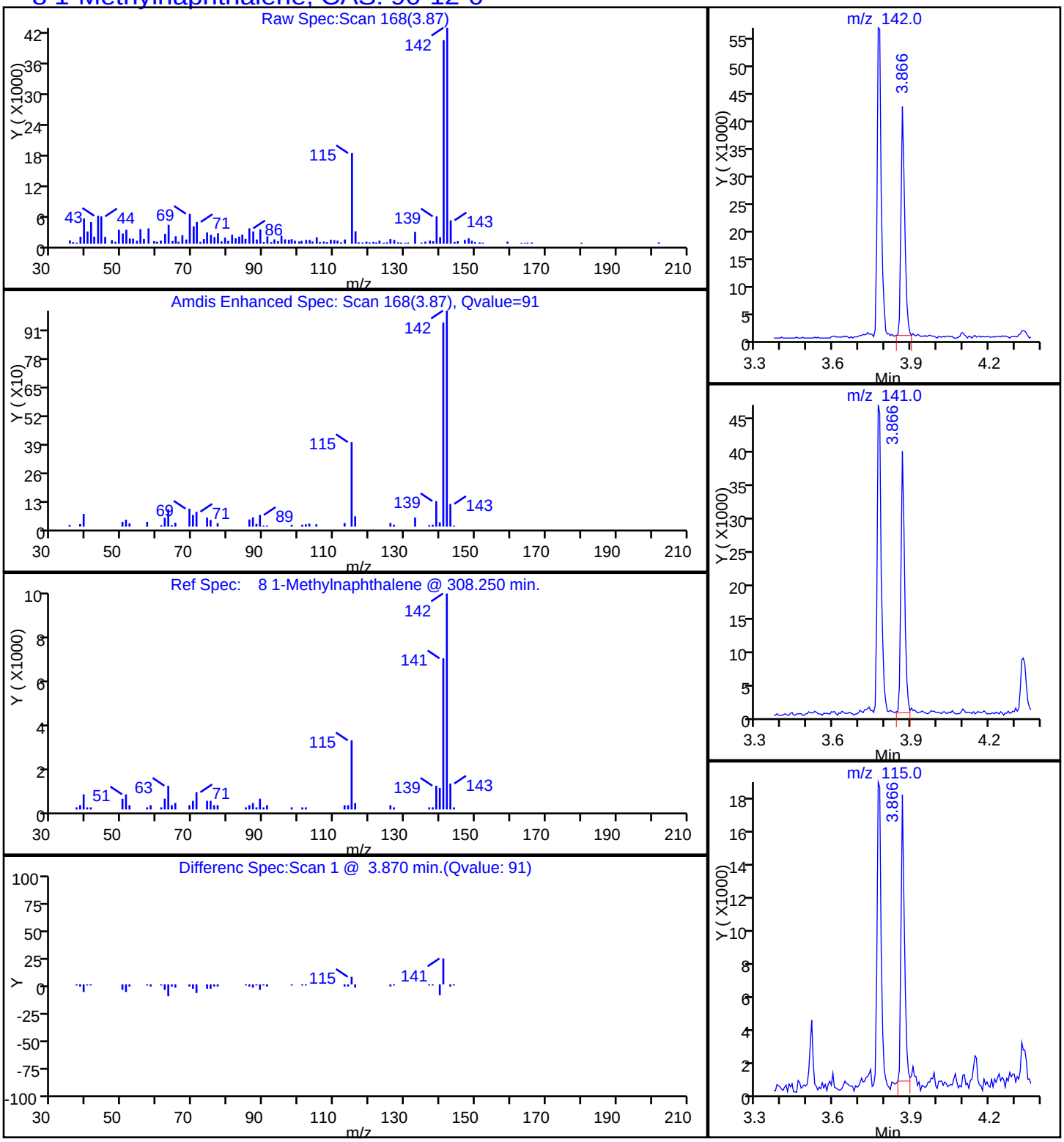


Report Date: 20-Nov-2014 10:09:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1920.D				
Injection Date:	19-Nov-2014 19:17:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-6-A	Lab Sample ID:	680-107310-6		
Client ID:	CV0971A0APa-CS0-4"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

8 1-Methylnaphthalene, CAS: 90-12-0

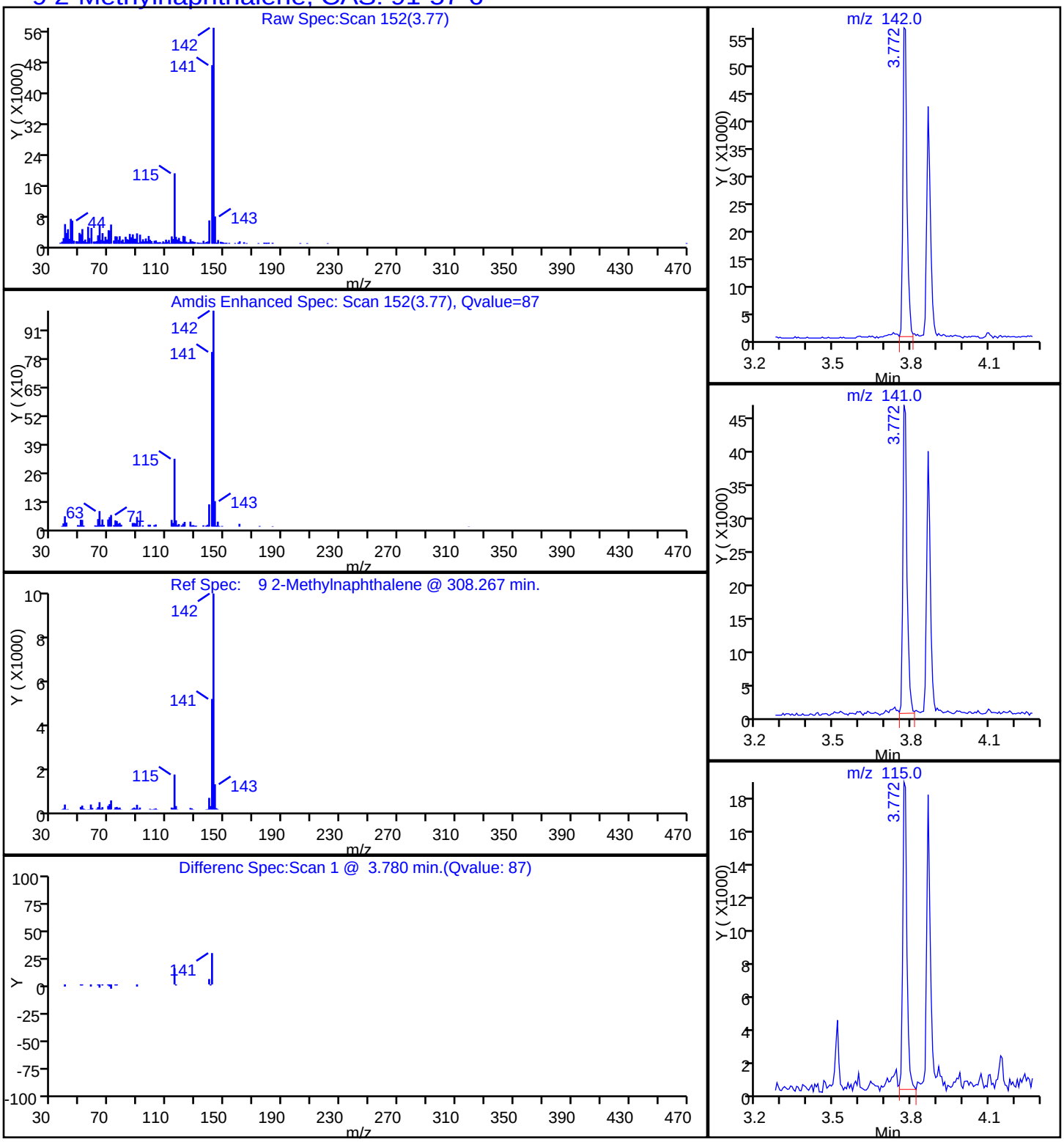


Report Date: 20-Nov-2014 10:09:42 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1920.D				
Injection Date:	19-Nov-2014 19:17:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-6-A	Lab Sample ID:	680-107310-6		
Client ID:	CV0971A0APa-CS0-4"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

9 2-Methylnaphthalene, CAS: 91-57-6

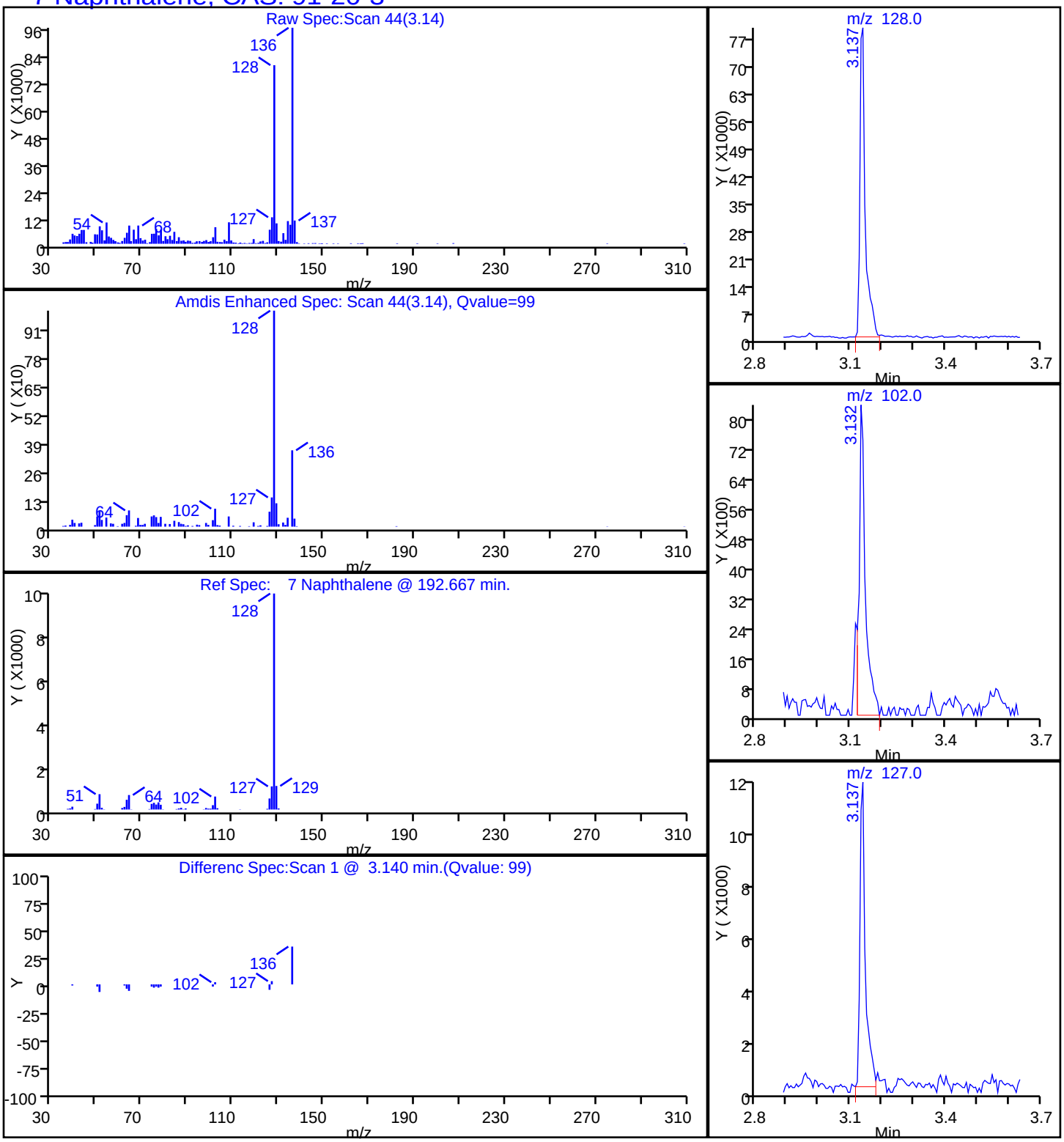


Report Date: 20-Nov-2014 10:09:42 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1920.D				
Injection Date:	19-Nov-2014 19:17:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-6-A	Lab Sample ID:	680-107310-6		
Client ID:	CV0971A0APa-CS0-4"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

7 Naphthalene, CAS: 91-20-3

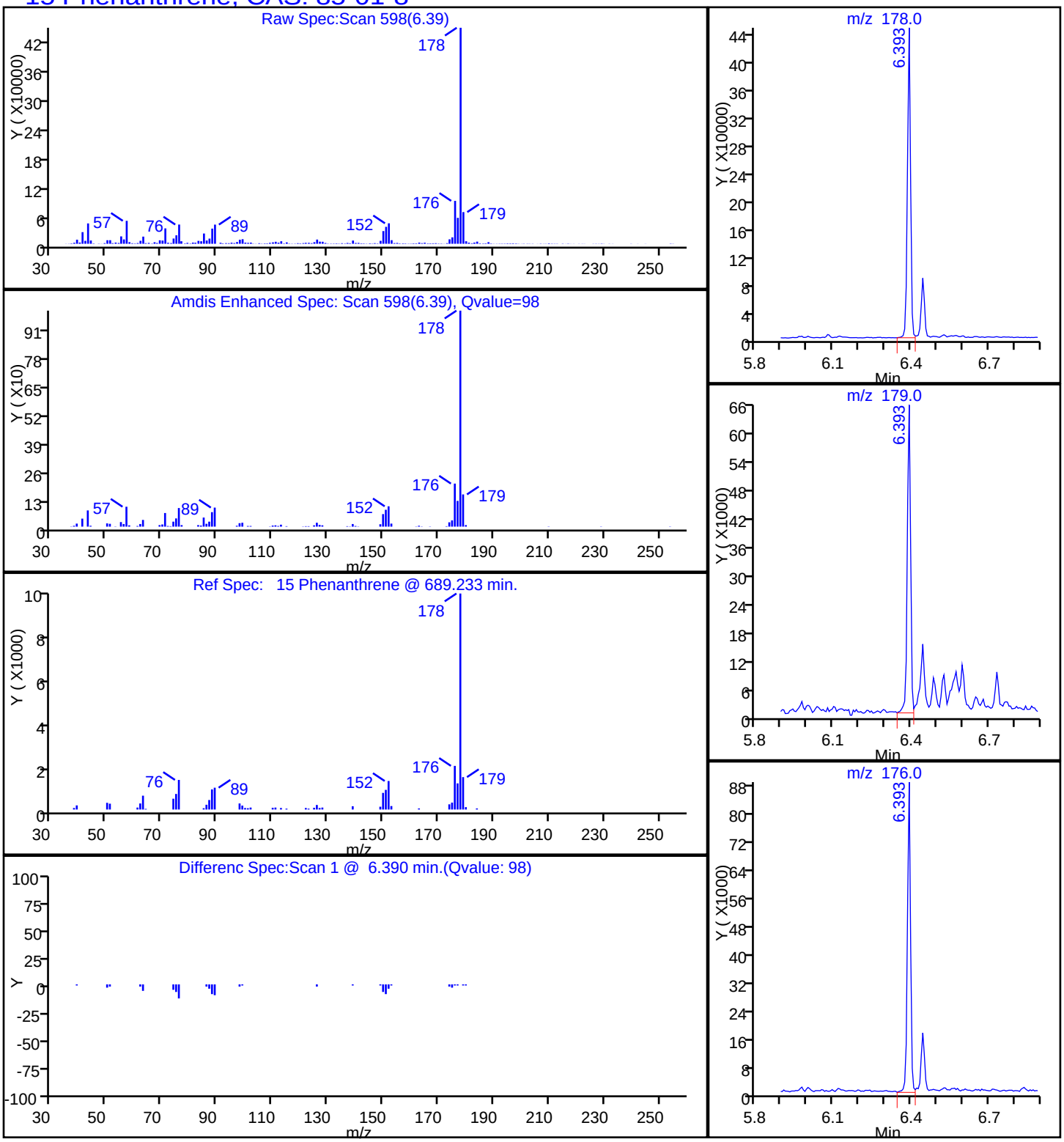


Report Date: 20-Nov-2014 10:09:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1920.D				
Injection Date:	19-Nov-2014 19:17:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-6-A	Lab Sample ID:	680-107310-6		
Client ID:	CV0971A0APa-CS0-4"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

15 Phenanthrene, CAS: 85-01-8

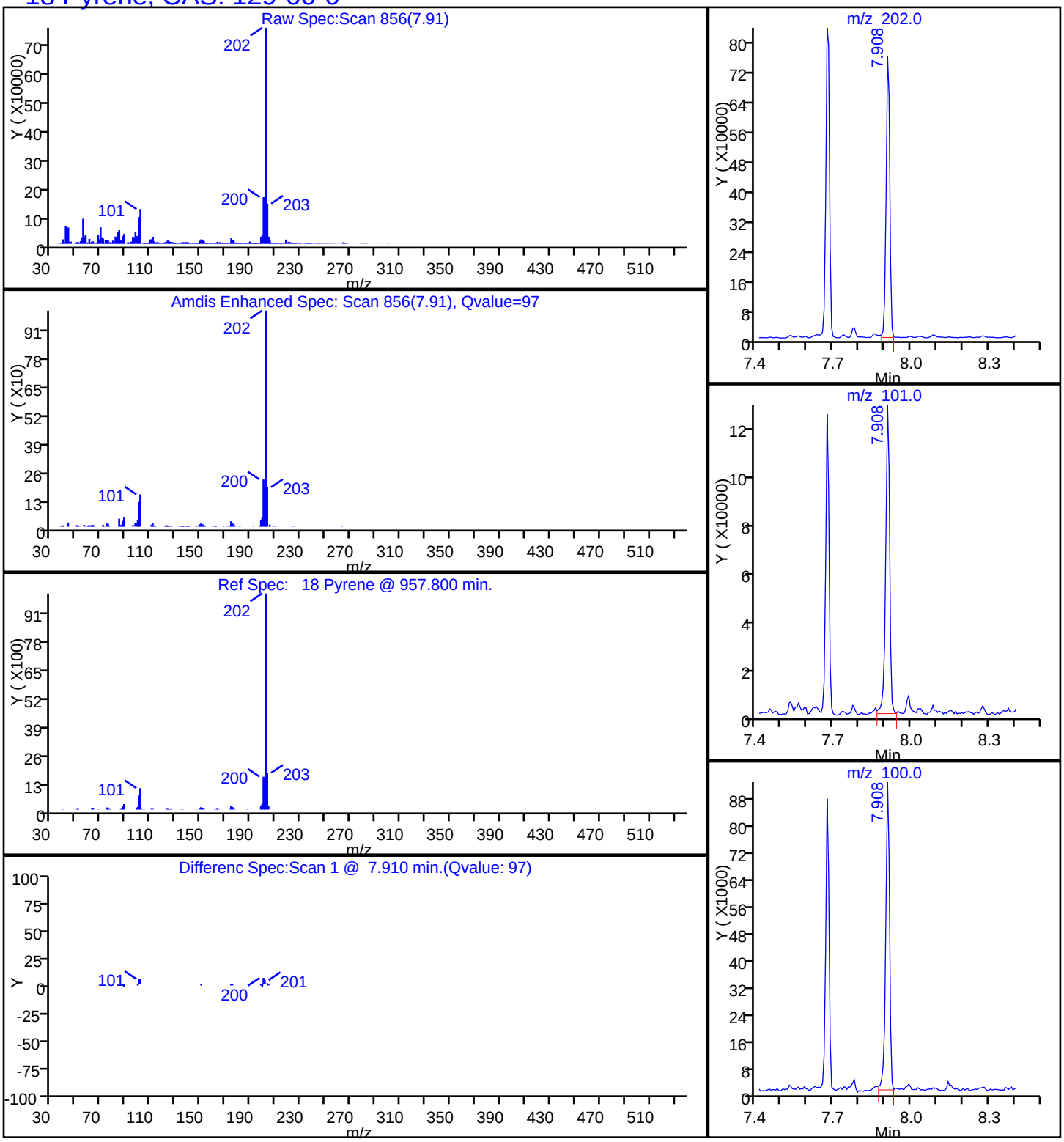


Report Date: 20-Nov-2014 10:09:43 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1920.D				
Injection Date:	19-Nov-2014 19:17:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-6-A	Lab Sample ID:	680-107310-6		
Client ID:	CV0971A0APa-CS0-4"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	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

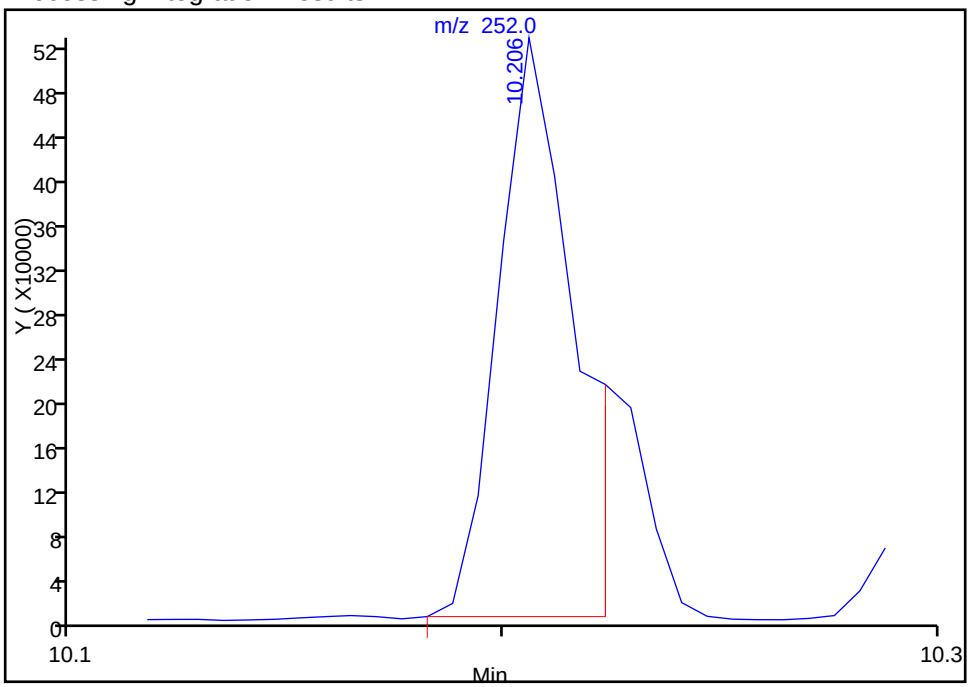
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1920.D				
Injection Date:	19-Nov-2014 19:17:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-6-A	Lab Sample ID:	680-107310-6		
Client ID:	CV0971A0APa-CS0-4"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

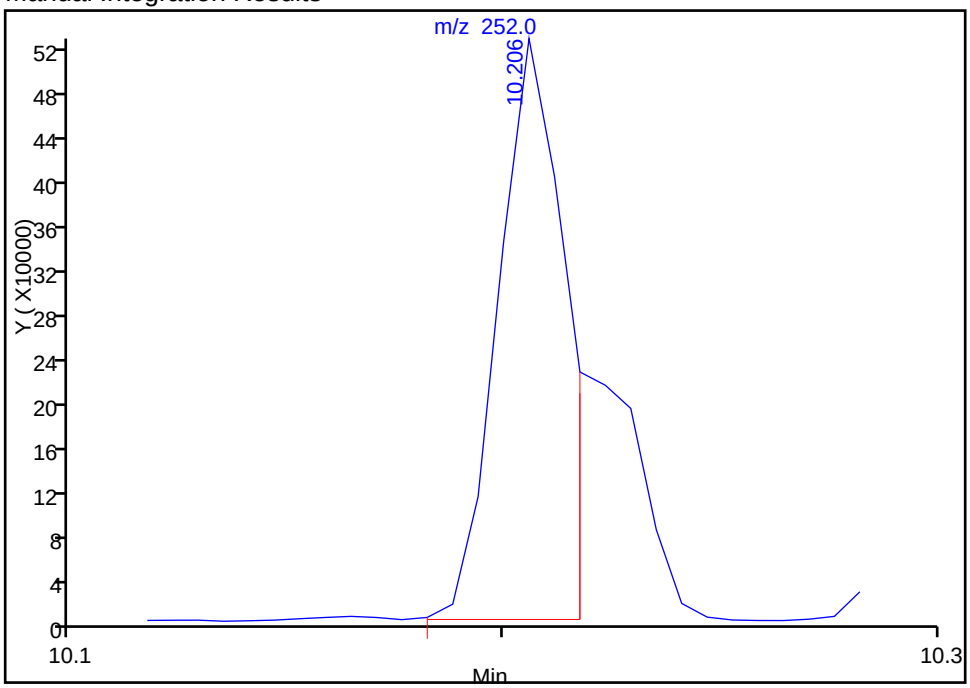
Processing Integration Results

RT: 10.21
Response: 631337
Amount: 2.199340



Manual Integration Results

RT: 10.21
Response: 562676
Amount: 1.981280



Reviewer: webbk, 20-Nov-2014 08:18:20
Audit Action: Manually Integrated
Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

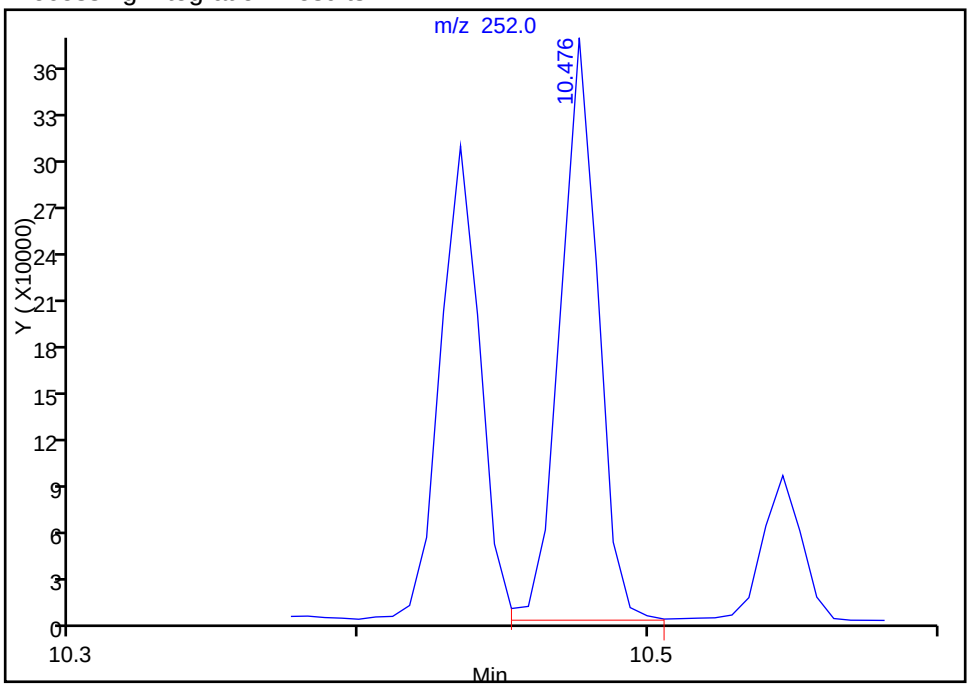
TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1920.D				
Injection Date:	19-Nov-2014 19:17:30	Instrument ID:	CMSK		
Lims ID:	680-107310-A-6-A	Lab Sample ID:	680-107310-6		
Client ID:	CV0971A0APa-CS0-4"				
Operator ID:	RM	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	10.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		
Column:	Restek RXi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

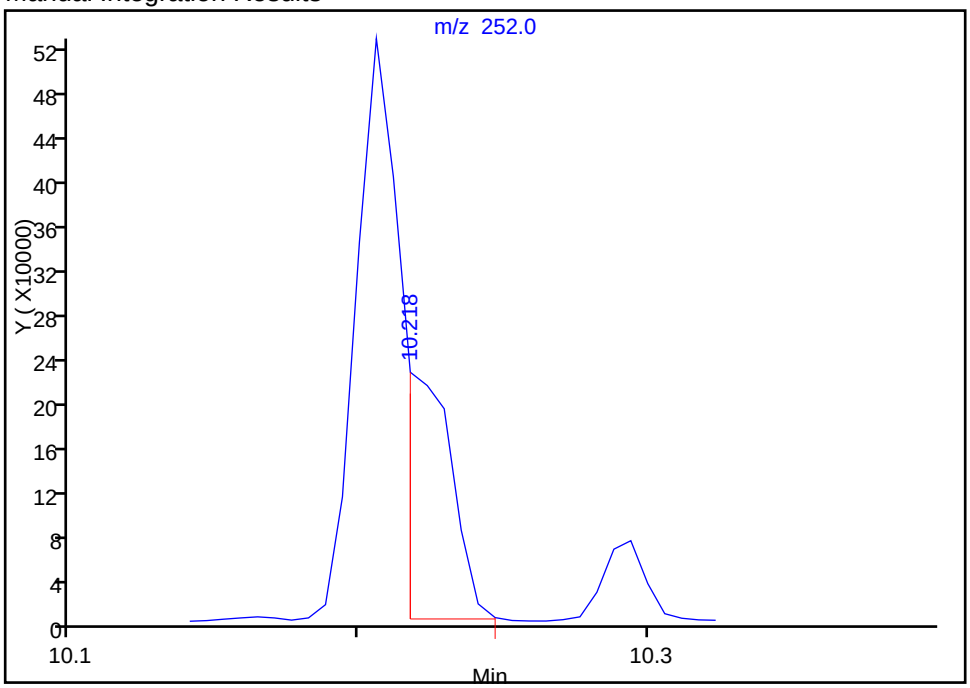
Processing Integration Results

RT: 10.48
Response: 338255
Amount: 1.159153



Manual Integration Results

RT: 10.22
Response: 250096
Amount: 0.857045



Reviewer: webbk, 20-Nov-2014 08:18:20
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.: 680-107310-1 Analy Batch No.: 359503

SDG No.: 680-107310-1

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

Calibration Start Date: 11/19/2014 12:29 Calibration End Date: 11/19/2014 14:45 Calibration ID: 35824

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-359503/3	2KK1903.D
Level 2	IC 680-359503/8	2KK1908.D
Level 3	IC 680-359503/7	2KK1907.D
Level 4	IC 680-359503/6	2KK1906.D
Level 5	ICIS 680-359503/2	2KK1902.D
Level 6	IC 680-359503/5	2KK1905.D
Level 7	IC 680-359503/4	2KK1904.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Naphthalene	1.0552 1.1793	1.0680 1.1520	1.0793	1.1587	1.1568	Ave		1.1213			0.7000	4.6		20.0			
2-Methylnaphthalene	0.6107 0.7427	0.6327 0.7523	0.6234	0.7053	0.7130	Ave		0.6829			0.4000	8.7		20.0			
1-Methylnaphthalene	0.5549 0.6784	0.5639 0.6845	0.5767	0.6421	0.6507	Ave		0.6216				8.9		20.0			
1,1'-Biphenyl	1.4565 1.7542	1.5091 1.7523	1.5063	1.5861	1.6368	Ave		1.6002				7.5		20.0			
Acenaphthylene	1.6394 2.1963	1.7235 2.1882	1.7372	1.9091	2.0370	QuaF		2.1151	0.0038402						1.0000		0.9900
Acenaphthene	1.1271 1.3693	1.2135 1.3637	1.1644	1.2593	1.3002	Ave		1.2568			0.9000	7.5		20.0			
Dibenzofuran	1.5109 1.9287	1.5744 1.9220	1.5893	1.7372	1.7780	QuaF		1.8540	0.0035685						1.0000		0.9900
Fluorene	1.1633 1.5299	1.1917 1.5090	1.2264	1.3394	1.3999	QuaF		1.4756	0.0018284						1.0000		0.9900
Phenanthrene	1.1021 1.3133	1.1011 1.3714	1.1491	1.1819	1.2434	Ave		1.2089			0.7000	8.7		20.0			
Anthracene	0.9869 1.3038	1.0103 1.3588	1.0515	1.1461	1.2433	QuaF		1.2287	0.0065505						1.0000		0.9900
Fluoranthene	1.0167 1.3707	0.9883 1.4593	1.0662	1.1699	1.2891	QuaF		1.2595	0.0100409						1.0000		0.9900
Pyrene	1.3654 1.2871	1.5173 1.2870	1.4559	1.5306	1.3525	Ave		1.3994			0.6000	7.3		20.0			
Benzo[a]anthracene	1.1283 1.0859	1.1232 1.1364	1.0797	1.1652	1.0977	Ave		1.1166			0.7000	2.7		20.0			
Chrysene	1.0441 1.0328	1.0854 1.0495	1.0381	1.0828	1.0146	Ave		1.0496			0.7000	2.5		20.0			

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

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

Lab Name: TestAmerica Savannah Job No.: 680-107310-1 Analy Batch No.: 359503

SDG No.: 680-107310-1

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

Calibration Start Date: 11/19/2014 12:29 Calibration End Date: 11/19/2014 14:45 Calibration ID: 35824

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Benzo[b]fluoranthene	1.1725 1.4193	1.1827 1.5482	1.2386	1.2754	1.3003	QuaF		1.2630	0.0143170						1.0000		0.9900
Benzo[k]fluoranthene	1.2045 1.3622	1.2559 1.5044	1.2154	1.3860	1.3599	Ave		1.3269			0.4000	8.1		20.0			
Benzo[a]pyrene	0.9690 1.1601	1.0094 1.2858	0.9976	1.1086	1.1641	QuaF		1.0677	0.0108396						1.0000		0.9900
Indeno[1,2,3-cd]pyrene	0.4482 0.7308	0.6384 0.7383	0.6021	0.7035	0.7205	QuaF		0.7187	0.0009935						1.0000		0.9900
Dibenz(a,h)anthracene	0.6013 0.8122	0.6347 0.8947	0.6499	0.7297	0.7861	QuaF		0.7361	0.0079196						1.0000		0.9900
Benzo[g,h,i]perylene	0.7853 0.8514	0.8133 0.9048	0.7753	0.8696	0.8814	Ave		0.8402			0.2000	5.9		20.0			
o-Terphenyl	0.7353 0.6719	0.8399 0.6836	0.7916	0.8057	0.6814	Ave		0.7442				9.2		20.0			

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

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

Lab Name: TestAmerica Savannah Job No.: 680-107310-1 Analy Batch No.: 359503

SDG No.: 680-107310-1

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

Calibration Start Date: 11/19/2014 12:29 Calibration End Date: 11/19/2014 14:45 Calibration ID: 35824

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 680-359503/3	2KK1903.D
Level 2	IC 680-359503/8	2KK1908.D
Level 3	IC 680-359503/7	2KK1907.D
Level 4	IC 680-359503/6	2KK1906.D
Level 5	ICIS 680-359503/2	2KK1902.D
Level 6	IC 680-359503/5	2KK1905.D
Level 7	IC 680-359503/4	2KK1904.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Naphthalene	NPT	Ave	47415 4123029	76418 7985220	188789	421965	2173481	0.100 10.0	0.200 20.0	0.500	1.00	5.00
2-Methylnaphthalene	NPT	Ave	27442 2596537	45271 5214238	109050	256863	1339776	0.100 10.0	0.200 20.0	0.500	1.00	5.00
1-Methylnaphthalene	NPT	Ave	24934 2371856	40349 4744266	100871	233840	1222551	0.100 10.0	0.200 20.0	0.500	1.00	5.00
1,1'-Biphenyl	ANT	Ave	34122 3213621	55074 6278296	138009	308725	1654649	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Acenaphthylene	ANT	QuaF	38405 4023630	62900 7839758	159161	371594	2059236	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Acenaphthene	ANT	Ave	26404 2508561	44288 4886045	106680	245115	1314416	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Dibenzofuran	ANT	QuaF	35395 3533426	57458 6886002	145611	338131	1797429	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Fluorene	ANT	QuaF	27253 2802731	43491 5406652	112359	260706	1415192	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Phenanthrene	PHN	Ave	39448 4061810	62172 7846622	163368	374263	2008144	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Anthracene	PHN	QuaF	35327 4032422	57046 7774352	149499	362923	2008135	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Fluoranthene	PHN	QuaF	36391 4239439	55805 8349224	151586	370472	2082091	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Pyrene	CRY	Ave	37290 4516183	60329 8706443	160084	395200	2225946	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[a]anthracene	CRY	Ave	30815 3810221	44659 7687815	118727	300843	1806653	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Chrysene	CRY	Ave	28515 3623761	43154 7099713	114151	279584	1669898	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[b]fluoranthene	PRY	QuaF	22758 3625319	33976 7167126	94114	236058	1558254	0.100 10.0	0.200 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.: 680-107310-1 Analy Batch No.: 359503

SDG No.: 680-107310-1

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

Calibration Start Date: 11/19/2014 12:29 Calibration End Date: 11/19/2014 14:45 Calibration ID: 35824

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzo[k]fluoranthene	PRY	Ave	23380 3479383	36079 6964087	92350	256546	1629680	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[a]pyrene	PRY	QuaF	18809 2963345	28998 5952314	75802	205193	1394963	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Indeno[1,2,3-cd]pyrene	CRY	QuaF	12240 2564177	25382 4994780	66202	181651	1185808	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Dibenz(a,h)anthracene	PRY	QuaF	11672 2074709	18234 4141923	49385	135055	942035	0.100 10.0	0.200 20.0	0.500	1.00	5.00
Benzo[g,h,i]perylene	PRY	Ave	15243 2174810	23362 4188703	58913	160963	1056206	0.100 10.0	0.200 20.0	0.500	1.00	5.00
o-Terphenyl	CRY	Ave	20083 2357411	33393 4624573	87038	208022	1121420	0.100 10.0	0.200 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\CMSK\20141119-14922.b\2KK1902.D
Lims ID: ICIS
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 19-Nov-2014 12:29:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICIS
Misc. Info.: 680-0014922-002
Operator ID: RM Instrument ID: CMSK
Sublist: chrom-8270_LLPAH_CMSK*sub4

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:34 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 19-Nov-2014 12:56:15

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	3.114	3.114	0.000	100	751580	2.00	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	92	404374	2.00	2.00	
* 3 Phenanthrene-d10	188	6.363	6.363	0.000	98	646042	2.00	2.00	
* 4 Chrysene-d12	240	9.196	9.196	0.000	99	658322	2.00	2.00	
* 5 Perylene-d12	264	10.518	10.518	0.000	98	479342	2.00	2.00	
$ 6 o-Terphenyl	230	6.839	6.839	0.000	89	1121420	5.00	4.58	
7 Naphthalene	128	3.138	3.138	0.000	99	2173481	5.00	5.16	
9 2-Methylnaphthalene	142	3.778	3.778	0.000	85	1339776	5.00	5.22	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	81	1222551	5.00	5.23	
10 1,1'-Biphenyl	154	4.242	4.242	0.000	98	1654649	5.00	5.11	
11 Acenaphthylene	152	4.654	4.654	0.000	97	2059236	5.00	4.77	
12 Acenaphthene	153	4.842	4.842	0.000	95	1314416	5.00	5.17	
13 Dibenzofuran	168	5.024	5.024	0.000	99	1797429	5.00	4.75	
14 Fluorene	166	5.382	5.382	0.000	95	1415192	5.00	4.72	
15 Phenanthrene	178	6.393	6.393	0.000	98	2008144	5.00	5.14	
16 Anthracene	178	6.446	6.446	0.000	98	2008135	5.00	4.93	
17 Fluoranthene	202	7.674	7.674	0.000	98	2082091	5.00	4.92	
18 Pyrene	202	7.909	7.909	0.000	97	2225946	5.00	4.83	
19 Benzo[a]anthracene	228	9.190	9.190	0.000	99	1806653	5.00	4.92	
20 Chrysene	228	9.225	9.225	0.000	98	1669898	5.00	4.83	
21 Benzo[b]fluoranthene	252	10.200	10.200	0.000	99	1558254	5.00	4.88	
22 Benzo[k]fluoranthene	252	10.224	10.224	0.000	99	1629680	5.00	5.12	
23 Benzo[a]pyrene	252	10.471	10.471	0.000	97	1394963	5.00	5.18	
24 Indeno[1,2,3-cd]pyrene	276	11.399	11.399	0.000	99	1185808	5.00	4.98	
25 Dibenz(a,h)anthracene	278	11.422	11.422	0.000	98	942035	5.00	5.06	
26 Benzo[g,h,i]perylene	276	11.634	11.634	0.000	98	1056206	5.00	5.25	

Reagents:

SMLLPAH5.0LVI_00025 Amount Added: 1.00 Units: mL

Report Date: 20-Nov-2014 10:09:35 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1902.D

Injection Date: 19-Nov-2014 12:29:30 Instrument ID: CMSK Operator ID: RM

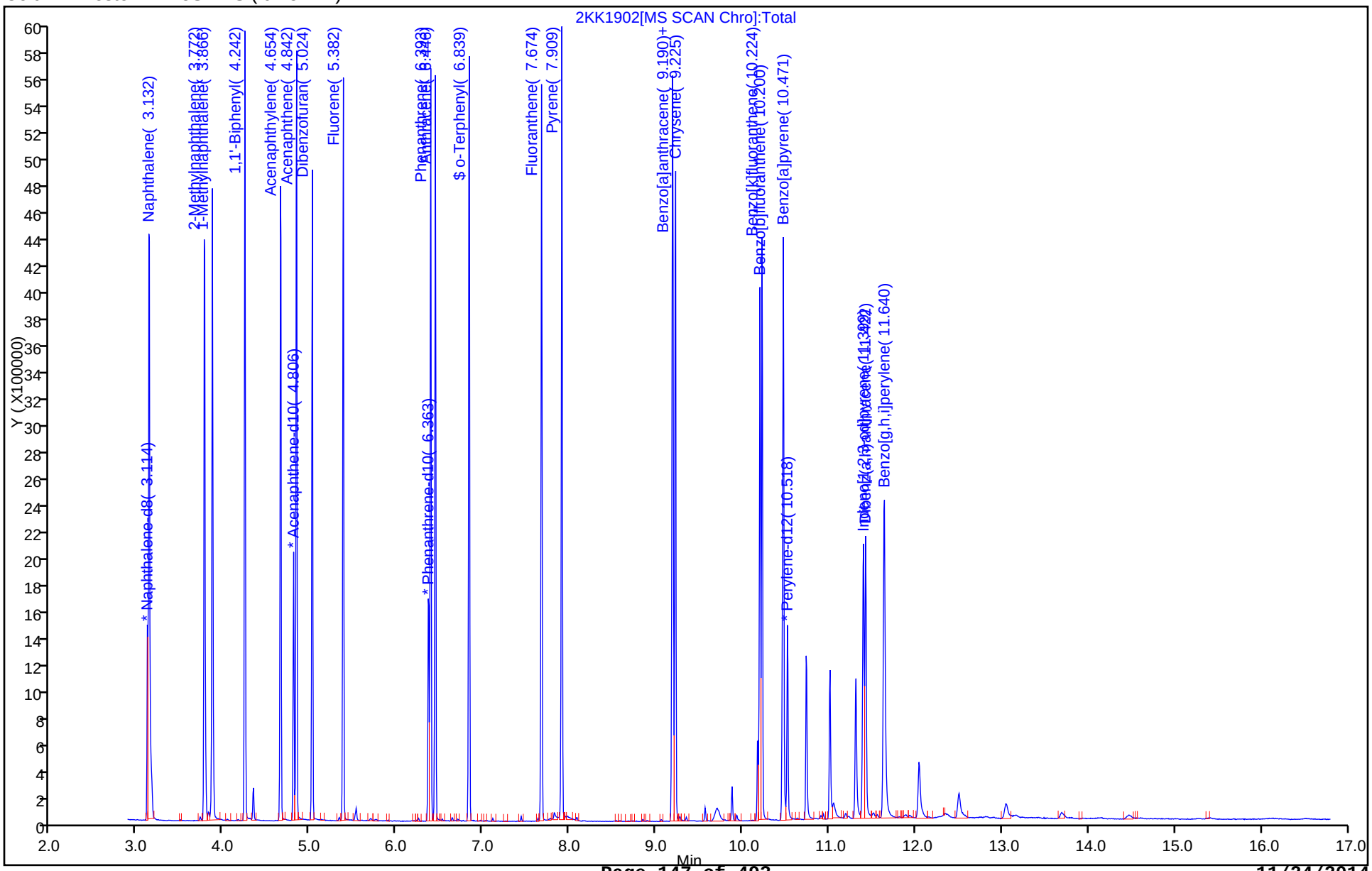
Lims ID: ICIS Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8270_LLPAH_CMSK Limit Group: 8270D_LL_PAH

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



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1903.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 19-Nov-2014 12:51:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0014922-003
Operator ID: RM Instrument ID: CMSK
Sublist: chrom-8270_LLPAH_CMSK*sub4

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:34 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 19-Nov-2014 13:22:04

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	3.114	3.114	0.000	100	898712	2.00	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	93	468534	2.00	2.00	
* 3 Phenanthrene-d10	188	6.363	6.363	0.000	99	715900	2.00	2.00	
* 4 Chrysene-d12	240	9.190	9.196	-0.006	99	546230	2.00	2.00	
* 5 Perylene-d12	264	10.517	10.518	-0.001	99	388199	2.00	2.00	
$ 6 o-Terphenyl	230	6.833	6.839	-0.006	87	20083	0.1000	0.0988	
7 Naphthalene	128	3.132	3.138	-0.006	98	47415	0.1000	0.0941	
9 2-Methylnaphthalene	142	3.772	3.778	-0.006	82	27442	0.1000	0.0894	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	90	24934	0.1000	0.0893	
10 1,1'-Biphenyl	154	4.242	4.242	0.000	98	34122	0.1000	0.0910	
11 Acenaphthylene	152	4.654	4.654	0.000	97	38405	0.1000	0.0775	
12 Acenaphthene	153	4.836	4.842	-0.006	96	26404	0.1000	0.0897	
13 Dibenzofuran	168	5.018	5.024	-0.006	99	35395	0.1000	0.0815	
14 Fluorene	166	5.376	5.382	-0.006	95	27253	0.1000	0.0788	
15 Phenanthrene	178	6.387	6.393	-0.006	98	39448	0.1000	0.0912	
16 Anthracene	178	6.440	6.446	-0.006	98	35327	0.1000	0.0803	
17 Fluoranthene	202	7.668	7.674	-0.006	97	36391	0.1000	0.0807	
18 Pyrene	202	7.903	7.909	-0.006	97	37290	0.1000	0.0976	
19 Benzo[a]anthracene	228	9.184	9.190	-0.006	99	30815	0.1000	0.1010	
20 Chrysene	228	9.213	9.225	-0.012	97	28515	0.1000	0.0995	
21 Benzo[b]fluoranthene	252	10.194	10.200	-0.006	96	22758	0.1000	0.0927	
22 Benzo[k]fluoranthene	252	10.218	10.224	-0.006	98	23380	0.1000	0.0908	
23 Benzo[a]pyrene	252	10.465	10.471	-0.005	97	18809	0.1000	0.0907	
24 Indeno[1,2,3-cd]pyrene	276	11.387	11.399	-0.012	99	12240	0.1000	0.0624	
25 Dibenz(a,h)anthracene	278	11.410	11.422	-0.012	96	11672	0.1000	0.0816	
26 Benzo[g,h,i]perylene	276	11.622	11.634	-0.012	96	15243	0.1000	0.0935	

Reagents:

SMLLPAH0.1LVI_00022 Amount Added: 1.00 Units: mL

Report Date: 20-Nov-2014 10:09:34 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1903.D

Injection Date: 19-Nov-2014 12:51:30 Instrument ID: CMSK Operator ID: RM

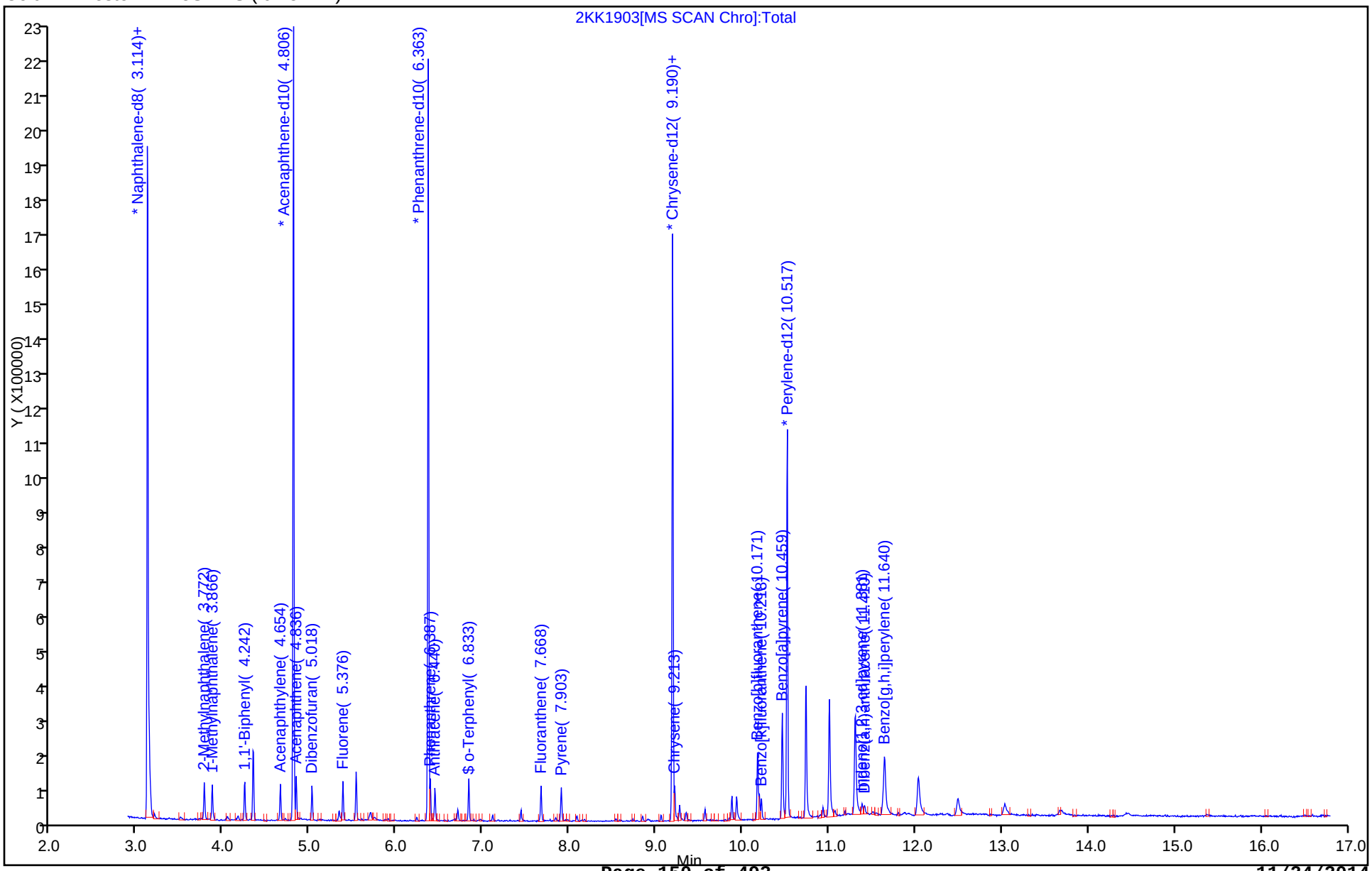
Lims ID: IC Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8270_LLPAH_CMSK Limit Group: 8270D_LL_PAH

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



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1904.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 19-Nov-2014 13:14:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0014922-004
Operator ID: RM Instrument ID: CMSK
Sublist: chrom-8270_LLPAH_CMSK*sub4

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:33 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 19-Nov-2014 13:33:13

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	3.120	3.114	0.006	99	693150	2.00	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	93	358282	2.00	2.00	
* 3 Phenanthrene-d10	188	6.369	6.363	0.006	98	572148	2.00	2.00	
* 4 Chrysene-d12	240	9.207	9.196	0.011	99	676496	2.00	2.00	
* 5 Perylene-d12	264	10.523	10.518	0.005	98	462921	2.00	2.00	
$ 6 o-Terphenyl	230	6.839	6.839	0.000	90	4624573	20.0	18.4	
7 Naphthalene	128	3.138	3.138	0.000	99	7985220	20.0	20.5	
9 2-Methylnaphthalene	142	3.778	3.778	0.000	85	5214238	20.0	22.0	
8 1-Methylnaphthalene	142	3.872	3.866	0.006	92	4744266	20.0	22.0	
10 1,1'-Biphenyl	154	4.248	4.242	0.006	99	6278296	20.0	21.9	
11 Acenaphthylene	152	4.659	4.654	0.005	98	7839758	20.0	20.0	
12 Acenaphthene	153	4.847	4.842	0.005	95	4886045	20.0	21.7	
13 Dibenzofuran	168	5.030	5.024	0.006	100	6886002	20.0	20.0	
14 Fluorene	166	5.388	5.382	0.006	95	5406652	20.0	20.0	
15 Phenanthrene	178	6.399	6.393	0.006	97	7846622	20.0	22.7	
16 Anthracene	178	6.457	6.446	0.011	99	7774352	20.0	20.0	
17 Fluoranthene	202	7.685	7.674	0.011	98	8349224	20.0	20.0	
18 Pyrene	202	7.920	7.909	0.011	97	8706443	20.0	18.4	
19 Benzo[a]anthracene	228	9.195	9.190	0.005	98	7687815	20.0	20.4	
20 Chrysene	228	9.236	9.225	0.011	98	7099713	20.0	20.0	
21 Benzo[b]fluoranthene	252	10.212	10.200	0.012	98	7167126	20.0	20.0	
22 Benzo[k]fluoranthene	252	10.241	10.224	0.017	98	6964087	20.0	22.7	
23 Benzo[a]pyrene	252	10.482	10.471	0.012	98	5952314	20.0	20.0	
24 Indeno[1,2,3-cd]pyrene	276	11.410	11.399	0.011	99	4994780	20.0	20.0	
25 Dibenz(a,h)anthracene	278	11.434	11.422	0.012	99	4141923	20.0	20.0	
26 Benzo[g,h,i]perylene	276	11.657	11.634	0.023	99	4188703	20.0	21.5	

Reagents:

SMLLPAH20LVI_00025 Amount Added: 1.00 Units: mL

Report Date: 20-Nov-2014 10:09:33 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1904.D

Injection Date: 19-Nov-2014 13:14:30 Instrument ID: CMSK Operator ID: RM

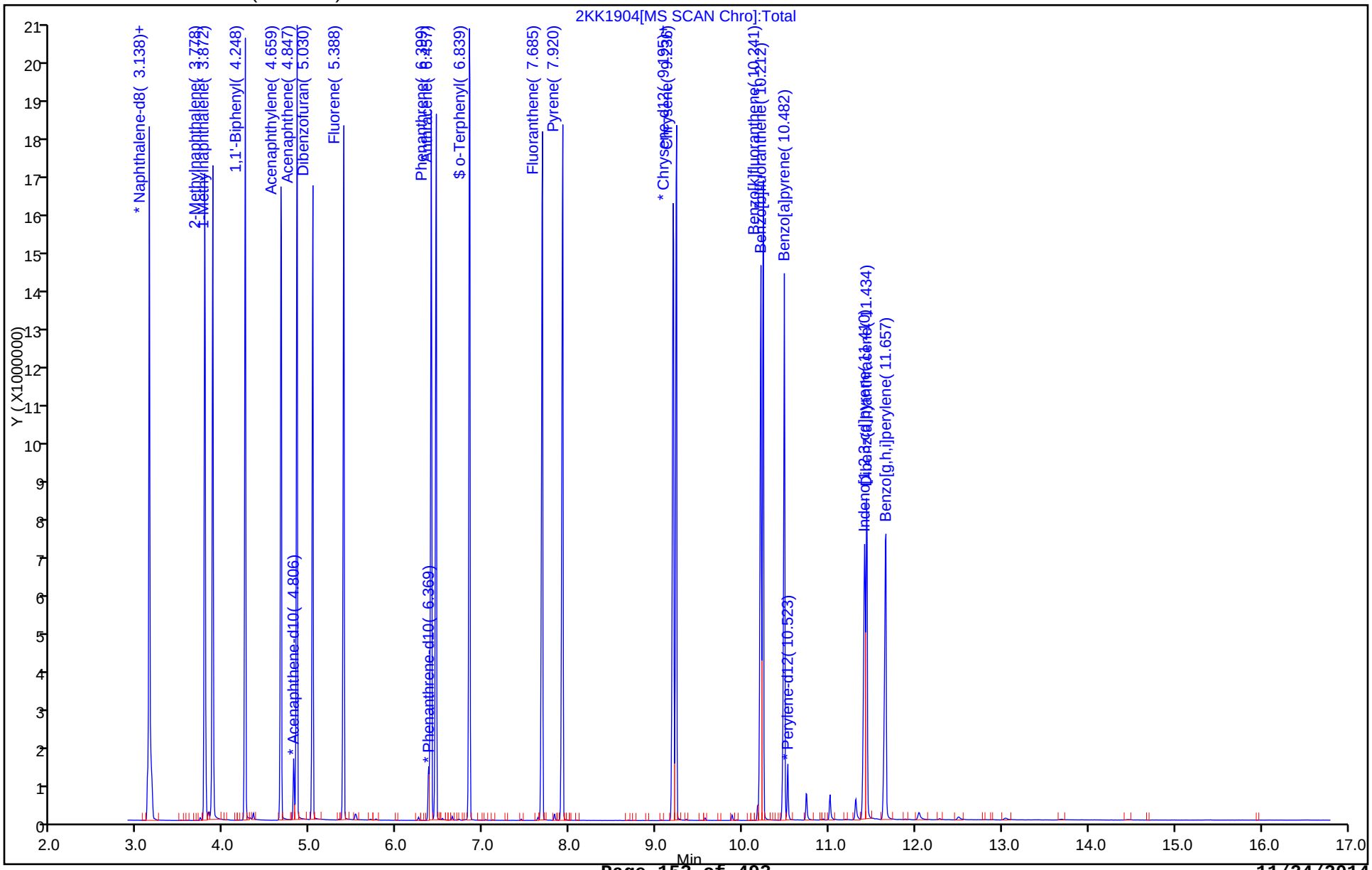
Lims ID: IC Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8270_LLPAH_CMSK Limit Group: 8270D_LL_PAH

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



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1905.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 19-Nov-2014 13:36:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0014922-005
Operator ID: RM Instrument ID: CMSK
Sublist: chrom-8270_LLPAH_CMSK*sub4

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:32 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 19-Nov-2014 15:28:31

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	3.114	3.114	0.000	99	699243	2.00	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	94	366400	2.00	2.00	
* 3 Phenanthrene-d10	188	6.363	6.363	0.000	99	618575	2.00	2.00	
* 4 Chrysene-d12	240	9.201	9.196	0.005	99	701756	2.00	2.00	
* 5 Perylene-d12	264	10.523	10.518	0.005	98	510861	2.00	2.00	
$ 6 o-Terphenyl	230	6.839	6.839	0.000	90	2357411	10.0	9.03	
7 Naphthalene	128	3.138	3.138	0.000	99	4123029	10.0	10.5	
9 2-Methylnaphthalene	142	3.778	3.778	0.000	85	2596537	10.0	10.9	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	92	2371856	10.0	10.9	
10 1,1'-Biphenyl	154	4.242	4.242	0.000	99	3213621	10.0	11.0	
11 Acenaphthylene	152	4.659	4.654	0.005	98	4023630	10.0	10.2	
12 Acenaphthene	153	4.842	4.842	0.000	95	2508561	10.0	10.9	
13 Dibenzofuran	168	5.024	5.024	0.000	100	3533426	10.0	10.2	
14 Fluorene	166	5.382	5.382	0.000	95	2802731	10.0	10.2	
15 Phenanthrene	178	6.393	6.393	0.000	97	4061810	10.0	10.9	
16 Anthracene	178	6.451	6.446	0.005	99	4032422	10.0	10.1	
17 Fluoranthene	202	7.679	7.674	0.005	98	4239439	10.0	10.1	
18 Pyrene	202	7.914	7.909	0.005	97	4516183	10.0	9.20	
19 Benzo[a]anthracene	228	9.189	9.190	-0.001	99	3810221	10.0	9.72	
20 Chrysene	228	9.225	9.225	0.000	98	3623761	10.0	9.84	
21 Benzo[b]fluoranthene	252	10.206	10.200	0.006	99	3625319	10.0	10.1	
22 Benzo[k]fluoranthene	252	10.229	10.224	0.005	99	3479383	10.0	10.3	
23 Benzo[a]pyrene	252	10.476	10.471	0.006	97	2963345	10.0	9.88	
24 Indeno[1,2,3-cd]pyrene	276	11.405	11.399	0.006	99	2564177	10.0	10.0	
25 Dibenz(a,h)anthracene	278	11.428	11.422	0.006	99	2074709	10.0	9.97	
26 Benzo[g,h,i]perylene	276	11.645	11.634	0.011	98	2174810	10.0	10.1	

Reagents:

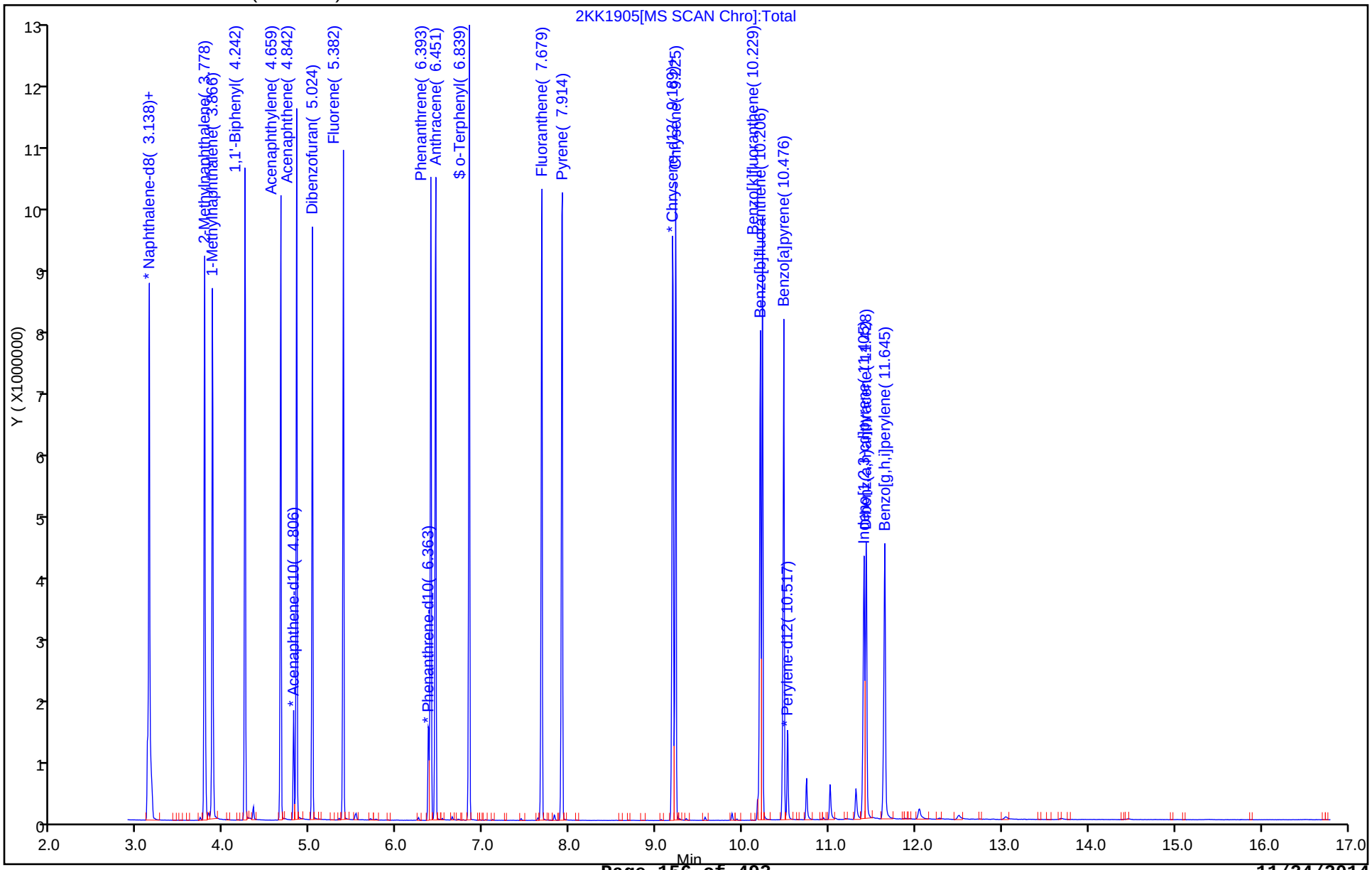
SMLLPAH10LVI_00022 Amount Added: 1.00 Units: mL

Report Date: 20-Nov-2014 10:09:32 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1905.D				
Injection Date:	19-Nov-2014 13:36:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	IC			Worklist Smp#:	5
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1906.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 19-Nov-2014 13:59:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0014922-006
Operator ID: RM Instrument ID: CMSK
Sublist: chrom-8270_LLPAH_CMSK*sub4

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:31 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 19-Nov-2014 15:28:54

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	3.114	3.114	0.000	100	728351	2.00	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	92	389288	2.00	2.00	
* 3 Phenanthrene-d10	188	6.363	6.363	0.000	99	633314	2.00	2.00	
* 4 Chrysene-d12	240	9.189	9.196	-0.007	99	516395	2.00	2.00	
* 5 Perylene-d12	264	10.517	10.518	-0.001	98	370183	2.00	2.00	
$ 6 o-Terphenyl	230	6.833	6.839	-0.006	89	208022	1.00	1.08	
7 Naphthalene	128	3.132	3.138	-0.006	99	421965	1.00	1.03	
9 2-Methylnaphthalene	142	3.772	3.778	-0.006	84	256863	1.00	1.03	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	93	233840	1.00	1.03	
10 1,1'-Biphenyl	154	4.242	4.242	0.000	98	308725	1.00	0.99	
11 Acenaphthylene	152	4.653	4.654	-0.001	97	371594	1.00	0.9011	
12 Acenaphthene	153	4.836	4.842	-0.006	96	245115	1.00	1.00	
13 Dibenzofuran	168	5.018	5.024	-0.006	99	338131	1.00	0.9353	
14 Fluorene	166	5.376	5.382	-0.006	95	260706	1.00	0.9067	
15 Phenanthrene	178	6.387	6.393	-0.006	98	374263	1.00	0.9777	
16 Anthracene	178	6.440	6.446	-0.006	98	362923	1.00	0.9282	
17 Fluoranthene	202	7.668	7.674	-0.006	97	370472	1.00	0.9221	
18 Pyrene	202	7.903	7.909	-0.006	97	395200	1.00	1.09	
19 Benzo[a]anthracene	228	9.184	9.190	-0.006	99	300843	1.00	1.04	
20 Chrysene	228	9.219	9.225	-0.006	98	279584	1.00	1.03	
21 Benzo[b]fluoranthene	252	10.194	10.200	-0.006	98	236058	1.00	1.00	
22 Benzo[k]fluoranthene	252	10.218	10.224	-0.006	99	256546	1.00	1.04	
23 Benzo[a]pyrene	252	10.464	10.471	-0.006	97	205193	1.00	1.03	
24 Indeno[1,2,3-cd]pyrene	276	11.387	11.399	-0.012	98	181651	1.00	0.9776	
25 Dibenz(a,h)anthracene	278	11.416	11.422	-0.006	97	135055	1.00	0.9809	
26 Benzo[g,h,i]perylene	276	11.622	11.634	-0.012	98	160963	1.00	1.04	

Reagents:

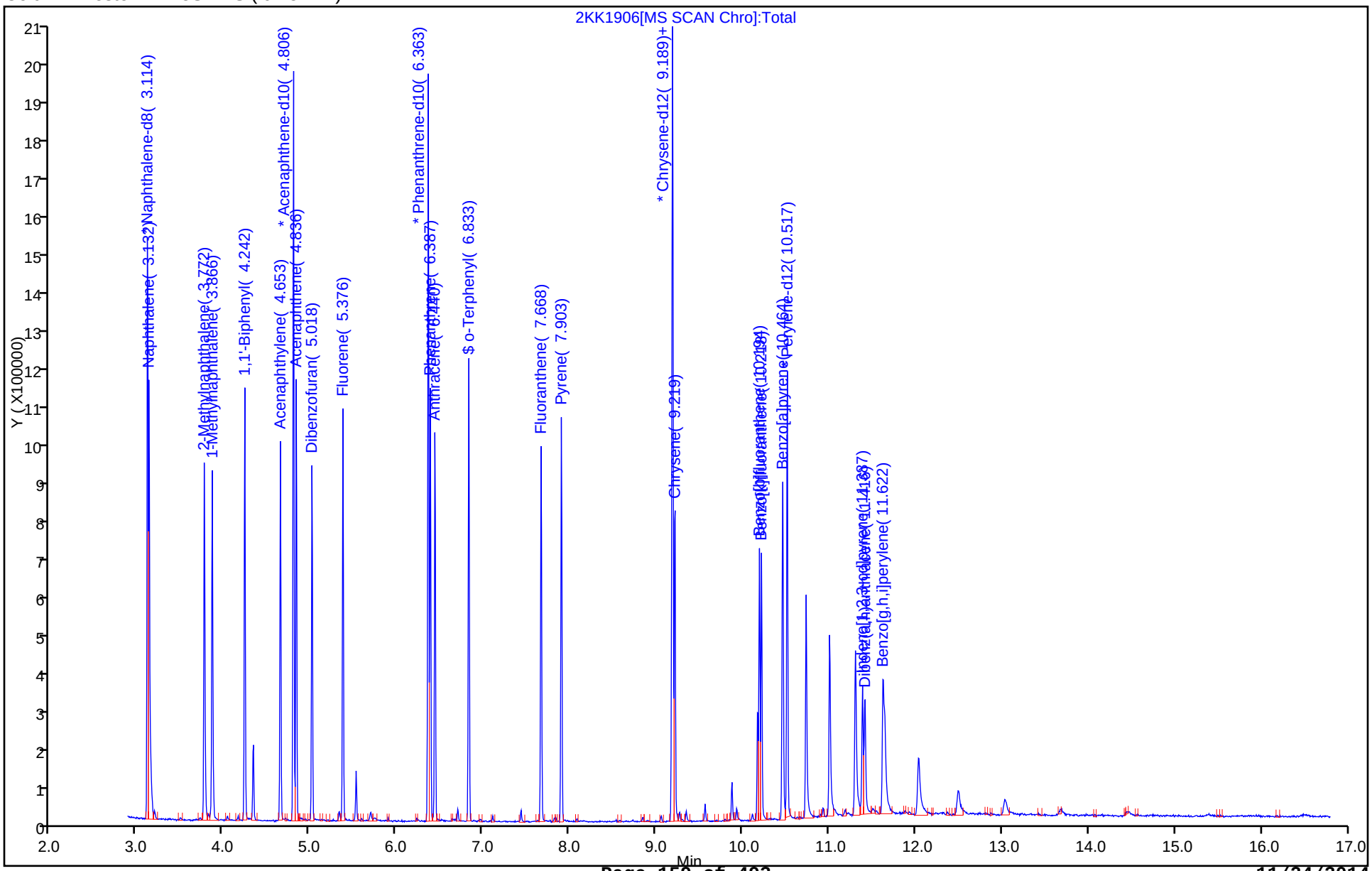
SMLLPAH1.0LVI_00020 Amount Added: 1.00 Units: mL

Report Date: 20-Nov-2014 10:09:31 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1906.D				
Injection Date:	19-Nov-2014 13:59:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	IC			Worklist Smp#:	6
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1907.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 19-Nov-2014 14:22:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0014922-007
Operator ID: RM Instrument ID: CMSK
Sublist: chrom-8270_LLPAH_CMSK*sub4

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:30 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 19-Nov-2014 15:29:10

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	3.114	3.114	0.000	100	699657	2.00	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	93	366481	2.00	2.00	
* 3 Phenanthrene-d10	188	6.363	6.363	0.000	99	568683	2.00	2.00	
* 4 Chrysene-d12	240	9.189	9.196	-0.007	99	439834	2.00	2.00	
* 5 Perylene-d12	264	10.517	10.518	-0.001	98	303940	2.00	2.00	
$ 6 o-Terphenyl	230	6.833	6.839	-0.006	90	87038	0.5000	0.5318	
7 Naphthalene	128	3.132	3.138	-0.006	98	188789	0.5000	0.4813	
9 2-Methylnaphthalene	142	3.772	3.778	-0.006	84	109050	0.5000	0.4565	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	92	100871	0.5000	0.4639	
10 1,1'-Biphenyl	154	4.242	4.242	0.000	98	138009	0.5000	0.4707	
11 Acenaphthylene	152	4.653	4.654	-0.001	97	159161	0.5000	0.4103	
12 Acenaphthene	153	4.836	4.842	-0.006	96	106680	0.5000	0.4632	
13 Dibenzofuran	168	5.018	5.024	-0.006	99	145611	0.5000	0.4283	
14 Fluorene	166	5.376	5.382	-0.006	95	112359	0.5000	0.4153	
15 Phenanthrene	178	6.387	6.393	-0.006	97	163368	0.5000	0.4753	
16 Anthracene	178	6.440	6.446	-0.006	98	149499	0.5000	0.4269	
17 Fluoranthene	202	7.668	7.674	-0.006	97	151586	0.5000	0.4219	
18 Pyrene	202	7.903	7.909	-0.006	96	160084	0.5000	0.5202	
19 Benzo[a]anthracene	228	9.184	9.190	-0.006	99	118727	0.5000	0.4835	
20 Chrysene	228	9.213	9.225	-0.012	98	114151	0.5000	0.4945	
21 Benzo[b]fluoranthene	252	10.194	10.200	-0.006	98	94114	0.5000	0.4876	
22 Benzo[k]fluoranthene	252	10.218	10.224	-0.006	98	92350	0.5000	0.4580	
23 Benzo[a]pyrene	252	10.464	10.471	-0.006	97	75802	0.5000	0.4650	
24 Indeno[1,2,3-cd]pyrene	276	11.387	11.399	-0.012	99	66202	0.5000	0.4186	
25 Dibenz(a,h)anthracene	278	11.416	11.422	-0.006	95	49385	0.5000	0.4394	
26 Benzo[g,h,i]perylene	276	11.622	11.634	-0.012	98	58913	0.5000	0.4614	

Reagents:

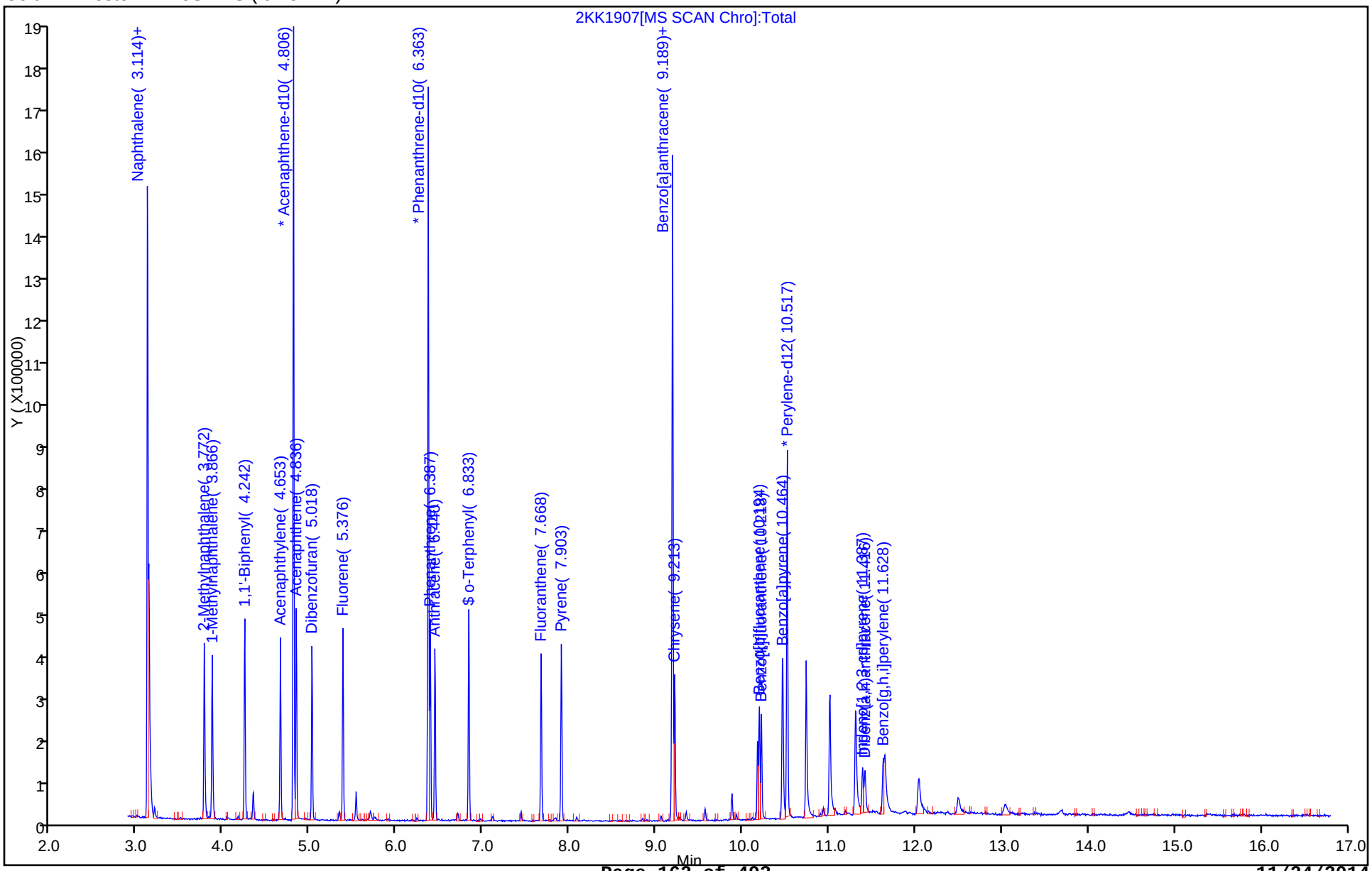
SMLLPAH0.5LVI_00022 Amount Added: 1.00 Units: mL

Report Date: 20-Nov-2014 10:09:30 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1907.D				
Injection Date:	19-Nov-2014 14:22:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	IC			Worklist Smp#:	7
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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



TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 19-Nov-2014 14:45:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 680-0014922-008
Operator ID: RM Instrument ID: CMSK
Sublist: chrom-8270_LLPAH_CMSK*sub4

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:29 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 19-Nov-2014 15:29:34

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	3.114	3.114	0.000	99	715503	2.00	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	93	364951	2.00	2.00	
* 3 Phenanthrene-d10	188	6.363	6.363	0.000	99	564640	2.00	2.00	
* 4 Chrysene-d12	240	9.189	9.196	-0.007	99	397600	2.00	2.00	
* 5 Perylene-d12	264	10.517	10.518	-0.001	98	287267	2.00	2.00	
$ 6 o-Terphenyl	230	6.833	6.839	-0.006	89	33393	0.2000	0.2257	
7 Naphthalene	128	3.132	3.138	-0.006	98	76418	0.2000	0.1905	
9 2-Methylnaphthalene	142	3.772	3.778	-0.006	85	45271	0.2000	0.1853	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	92	40349	0.2000	0.1814	
10 1,1'-Biphenyl	154	4.242	4.242	0.000	98	55074	0.2000	0.1886	
11 Acenaphthylene	152	4.654	4.654	0.000	98	62900	0.2000	0.1629	
12 Acenaphthene	153	4.836	4.842	-0.006	97	44288	0.2000	0.1931	
13 Dibenzofuran	168	5.018	5.024	-0.006	99	57458	0.2000	0.1698	
14 Fluorene	166	5.376	5.382	-0.006	95	43491	0.2000	0.1615	
15 Phenanthrene	178	6.387	6.393	-0.006	97	62172	0.2000	0.1822	
16 Anthracene	178	6.440	6.446	-0.006	98	57046	0.2000	0.1643	
17 Fluoranthene	202	7.668	7.674	-0.006	97	55805	0.2000	0.1567	
18 Pyrene	202	7.903	7.909	-0.006	97	60329	0.2000	0.2169	
19 Benzo[a]anthracene	228	9.184	9.190	-0.006	99	44659	0.2000	0.2012	
20 Chrysene	228	9.213	9.225	-0.012	98	43154	0.2000	0.2068	
21 Benzo[b]fluoranthene	252	10.194	10.200	-0.006	96	33976	0.2000	0.1869	
22 Benzo[k]fluoranthene	252	10.218	10.224	-0.006	98	36079	0.2000	0.1893	
23 Benzo[a]pyrene	252	10.464	10.471	-0.006	96	28998	0.2000	0.1887	
24 Indeno[1,2,3-cd]pyrene	276	11.393	11.399	-0.006	98	25382	0.2000	0.1776	
25 Dibenz(a,h)anthracene	278	11.422	11.422	0.000	94	18234	0.2000	0.1721	
26 Benzo[g,h,i]perylene	276	11.628	11.634	-0.006	96	23362	0.2000	0.1936	

Reagents:

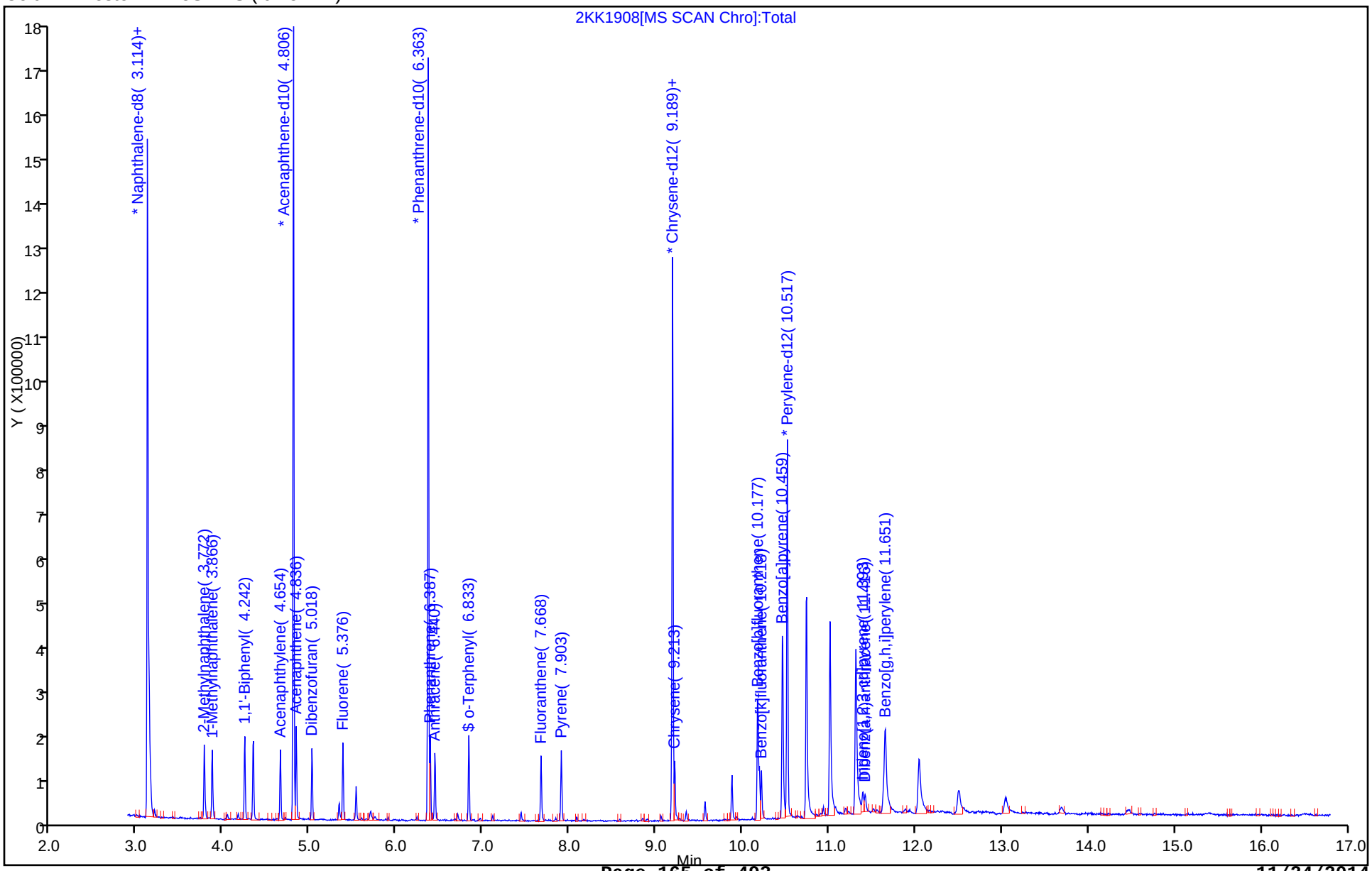
SMLLPAH0.2LVI_00021 Amount Added: 1.00 Units: mL

Report Date: 20-Nov-2014 10:09:29 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D				
Injection Date:	19-Nov-2014 14:45:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	IC			Worklist Smp#:	8
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8270_LLPAH_CMSK	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.: 680-107310-1

SDG No.: 680-107310-1

Lab Sample ID: ICV 680-359503/9 Calibration Date: 11/19/2014 15:07

Instrument ID: CMSK Calib Start Date: 11/19/2014 12:29

GC Column: RXi- 5Sil MS ID: 0.25(mm) Calib End Date: 11/19/2014 14:45

Lab File ID: 2KK1909.D Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.121	1.129	0.7000	5.03	5.00	0.7	30.0
2-Methylnaphthalene	Ave	0.6829	0.6907	0.4000	5.06	5.00	1.1	30.0
1-Methylnaphthalene	Ave	0.6216	0.6501		5.23	5.00	4.6	30.0
1,1'-Biphenyl	Ave	1.600	1.559		4.87	5.00	-2.6	30.0
Acenaphthylene	QuaF		2.054	0.9000	4.81	5.00	-3.8	30.0
Acenaphthene	Ave	1.257	1.347	0.9000	5.36	5.00	7.2	30.0
Dibenzofuran	QuaF		1.696		4.54	5.00	-9.3	30.0
Fluorene	QuaF		1.446	0.9000	4.87	5.00	-2.6	30.0
Phenanthrene	Ave	1.209	1.290	0.7000	5.34	5.00	6.7	30.0
Anthracene	QuaF		1.323	0.7000	5.24	5.00	4.7	30.0
Fluoranthene	QuaF		1.326	0.6000	5.06	5.00	1.2	30.0
Pyrene	Ave	1.399	1.473	0.6000	5.26	5.00	5.3	30.0
Benzo[a]anthracene	Ave	1.117	1.196	0.7000	5.36	5.00	7.1	30.0
Chrysene	Ave	1.050	1.172	0.7000	5.59	5.00	11.7	30.0
Benzo[b]fluoranthene	QuaF		1.524	0.4000	5.67	5.00	13.4	30.0
Benzo[k]fluoranthene	Ave	1.327	1.403	0.4000	5.29	5.00	5.7	30.0
Benzo[a]pyrene	QuaF		1.224	0.4000	5.43	5.00	8.7	30.0
Indeno[1,2,3-cd]pyrene	QuaF		0.7091	0.2000	4.90	5.00	-2.0	30.0
Dibenz(a,h)anthracene	QuaF		0.8197	0.2000	5.27	5.00	5.4	30.0
Benzo[g,h,i]perylene	Ave	0.8402	0.9140	0.2000	5.44	5.00	8.8	30.0
o-Terphenyl	Ave	0.7442	0.9000		6.05	5.00	20.9	30.0

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1909.D
Lims ID: ICV
Client ID:
Sample Type: ICV
Inject. Date: 19-Nov-2014 15:07:30 ALS Bottle#: 9 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: 680-0014922-009
Operator ID: RM Instrument ID: CMSK
Sublist:

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:08:41 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 19-Nov-2014 16:07:32

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	3.114	3.114	0.000	99	679367	2.00	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	92	348565	2.00	2.00	
* 3 Phenanthrene-d10	188	6.363	6.363	0.000	98	536799	2.00	2.00	
* 4 Chrysene-d12	240	9.195	9.196	-0.001	99	492124	2.00	2.00	
* 5 Perylene-d12	264	10.517	10.518	-0.001	98	336254	2.00	2.00	
$ 6 o-Terphenyl	230	6.833	6.839	-0.006	89	1107253	5.00	6.05	
7 Naphthalene	128	3.132	3.138	-0.006	99	1917169	5.00	5.03	
9 2-Methylnaphthalene	142	3.772	3.778	-0.006	85	1173027	5.00	5.06	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	93	1104104	5.00	5.23	
10 1,1'-Biphenyl	154	4.242	4.242	0.000	99	1358181	5.00	4.87	
11 Acenaphthylene	152	4.654	4.654	0.000	97	1789495	5.00	4.81	
12 Acenaphthene	153	4.842	4.842	0.000	95	1173905	5.00	5.36	
13 Dibenzofuran	168	5.024	5.024	0.000	99	1478241	5.00	4.54	
14 Fluorene	166	5.382	5.382	0.000	95	1260248	5.00	4.87	
15 Phenanthrene	178	6.393	6.393	0.000	97	1731343	5.00	5.34	
16 Anthracene	178	6.446	6.446	0.000	99	1775155	5.00	5.24	
17 Fluoranthene	202	7.674	7.674	0.000	98	1779123	5.00	5.06	
18 Pyrene	202	7.909	7.909	0.000	97	1812573	5.00	5.26	
19 Benzo[a]anthracene	228	9.184	9.190	-0.006	99	1471778	5.00	5.36	
20 Chrysene	228	9.219	9.225	-0.006	98	1442450	5.00	5.59	
21 Benzo[b]fluoranthene	252	10.200	10.200	0.000	99	1281021	5.00	5.67	
22 Benzo[k]fluoranthene	252	10.224	10.224	0.000	99	1179359	5.00	5.29	
23 Benzo[a]pyrene	252	10.470	10.471	0.000	97	1029168	5.00	5.43	
24 Indeno[1,2,3-cd]pyrene	276	11.393	11.399	-0.006	99	872434	5.00	4.90	
25 Dibenz(a,h)anthracene	278	11.416	11.422	-0.006	98	689102	5.00	5.27	
26 Benzo[g,h,i]perylene	276	11.628	11.634	-0.006	98	768374	5.00	5.44	

Reagents:

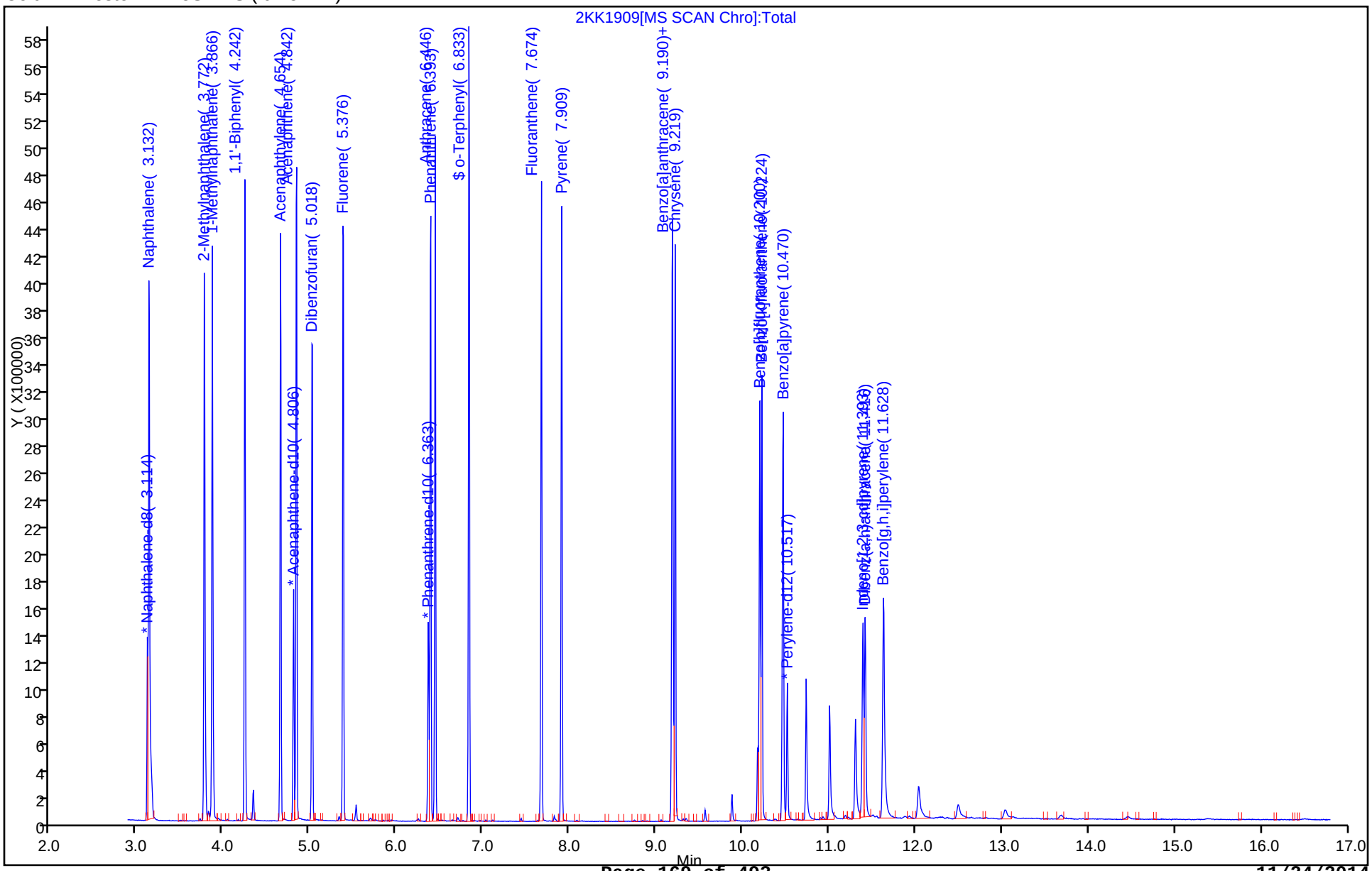
SMLLPAHICVLVI_00032 Amount Added: 1.00 Units: mL

Report Date: 20-Nov-2014 10:09:29 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1909.D				
Injection Date:	19-Nov-2014 15:07:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	ICV			Worklist Smp#:	9
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

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



TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1901.D				
Lims ID:	DFTPP				
Client ID:					
Sample Type:	DFTPP				
Inject. Date:	19-Nov-2014 12:15:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	DFTPP				
Misc. Info.:	680-0014922-001				
Operator ID:	RM	Instrument ID:	CMSK		
Method:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m				
Limit Group:	8270D_LL_PAH				
Last Update:	20-Nov-2014 10:09:35	Calib Date:	19-Nov-2014 14:45:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D				
Column 1 :	Restek RXi-5Sil MS (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK022				

First Level Reviewer: webbk Date: 20-Nov-2014 08:26:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
32 Pentachlorophenol_T	266	4.054	4.054	0.000	0	86399	NR	NR	
27 DFTPP									
31 Benzidine_T	184	5.312	5.312	0.000	0	381775	NR	NR	
30 4,4'-DDE	246	5.482	5.482	0.000	84	710		NR	7
28 4,4'-DDD	235	5.776	5.776	0.000	97	17434		NR	7M
29 4,4'-DDT	235	6.040	6.040	0.000	98	203817	NR	NR	7

QC Flag Legend

Processing Flags
- NR - Missing Quant Standard
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated

Reagents:

SM-LLTUNE_00080 Amount Added: 1.00 Units: mL

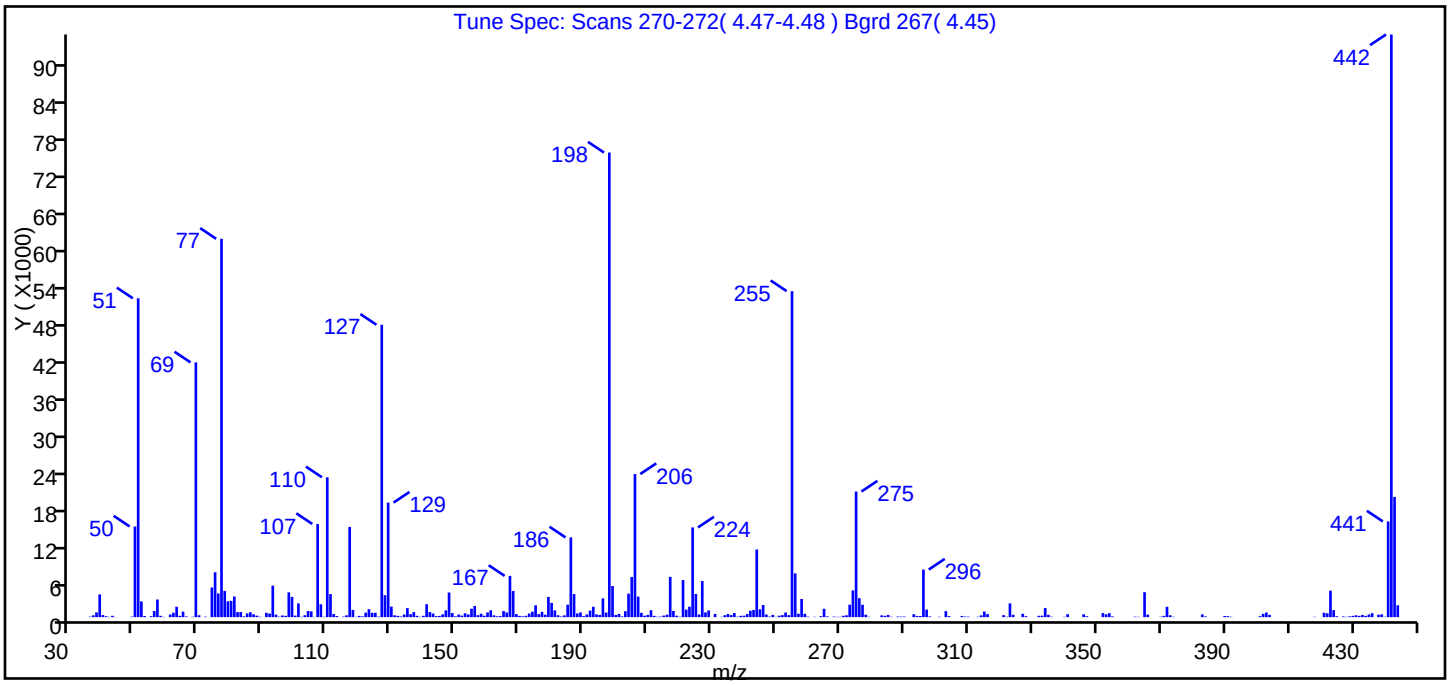
Report Date: 20-Nov-2014 10:09:35 Chrom Revision: 2.2 06-Nov-2014 14:50:32

MS Tune Report

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1901.D				
Injection Date:	19-Nov-2014 12:15:30	Instrument ID:	CMSK		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	RM	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_LLPAH_CMSK	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, or >90% of 198	100.0 (125.4)
51	10-80% of the base peak	54.7
68	<2% of mass 69	0.1 (0.2)
69	Present	43.7
70	<2% of mass 69	0.3 (0.7)
127	10-80% of the base peak	50.2
197	<2% of mass 198	0.8 (1.0)
198	base peak, or >50% of 442	79.7
199	5-9% of mass 198	5.3 (6.7)
275	10-60% of the base peak	21.6
365	>1% of the base peak	4.3
441	Present and < mass 443	16.4 (79.6)
443	15-24% of mass 442	20.6

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1901.D\8270_LLPAH_CMSK.rslt\spectra.d
Injection Date: 19-Nov-2014 12:15:30
Spectrum: Tune Spec: Scans 270-272(4.47-4.48) Bgrd 267(4.45)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 311

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	84	125.00	707	203.00	968	290.00	95
37.00	296	126.00	91	204.00	3817	293.00	474
38.00	776	127.00	47544	205.00	6533	294.00	206
39.00	3698	128.00	3573	206.00	23272	295.00	186
40.00	346	129.00	18624	207.00	3341	296.00	7738
41.00	151	130.00	1722	208.00	699	297.00	1219
42.00	53	131.00	299	209.00	239	298.00	119
43.00	218	132.00	216	210.00	367	301.00	63
44.00	27	133.00	108	211.00	1134	303.00	978
49.00	88	134.00	426	212.00	212	304.00	165
50.00	14745	135.00	1471	213.00	68	308.00	197
51.00	51848	136.00	477	214.00	91	309.00	96
52.00	2554	137.00	819	215.00	258	310.00	78
53.00	183	138.00	215	216.00	395	313.00	61
55.00	148	139.00	56	217.00	6548	314.00	290
56.00	989	140.00	220	218.00	999	315.00	907
57.00	2866	141.00	2104	219.00	229	316.00	491
58.00	215	142.00	831	220.00	74	321.00	330
59.00	51	143.00	582	221.00	6025	322.00	72
61.00	429	144.00	168	222.00	1226	323.00	2240
62.00	717	145.00	197	223.00	1699	324.00	377
63.00	1692	146.00	452	224.00	14588	327.00	544
64.00	213	147.00	1101	225.00	3778	328.00	160
65.00	895	148.00	4007	226.00	435	332.00	220
66.00	120	149.00	665	227.00	5867	333.00	238
68.00	65	150.00	128	228.00	765	334.00	1489
69.00	41424	151.00	416	229.00	1094	335.00	375
70.00	305	152.00	248	231.00	518	336.00	71
72.00	87	153.00	632	233.00	57	340.00	61
74.00	4827	154.00	442	234.00	311	341.00	475
75.00	7302	155.00	1370	235.00	515	346.00	461
76.00	3851	156.00	1804	236.00	331	347.00	151
77.00	61520	157.00	327	237.00	667	352.00	662

Report Date: 20-Nov-2014 10:09:35 Chrom Revision: 2.2 06-Nov-2014 14:50:32
Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1901.D\8270_LLPAH_CMSK.rslt\spectra.d
Injection Date: 19-Nov-2014 12:15:30
Spectrum: Tune Spec: Scans 270-272(4.47-4.48) Bgrd 267(4.45)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 311

m/z	Y	m/z	Y	m/z	Y	m/z	Y
78.00	4265	158.00	551	238.00	73	353.00	465
79.00	2578	159.00	235	239.00	224	354.00	645
80.00	2643	160.00	761	240.00	234	355.00	120
81.00	3348	161.00	1122	241.00	504	362.00	72
82.00	816	162.00	293	242.00	1036	363.00	59
83.00	830	163.00	148	243.00	1168	365.00	4056
84.00	128	164.00	168	244.00	10995	366.00	409
85.00	596	165.00	991	245.00	1277	370.00	66
86.00	790	166.00	768	246.00	1967	371.00	213
87.00	467	167.00	6710	247.00	416	372.00	1686
88.00	244	168.00	4261	248.00	95	373.00	304
89.00	72	169.00	500	249.00	364	374.00	62
91.00	707	170.00	211	250.00	51	383.00	453
92.00	579	171.00	134	251.00	240	384.00	117
93.00	5124	172.00	224	252.00	327	390.00	186
94.00	408	173.00	581	253.00	755	391.00	161
95.00	76	174.00	882	254.00	325	392.00	60
96.00	275	175.00	1930	255.00	53008	401.00	160
97.00	211	176.00	495	256.00	7109	402.00	532
98.00	4033	177.00	862	257.00	554	403.00	755
99.00	3292	178.00	395	258.00	2954	404.00	368
100.00	247	179.00	3285	259.00	540	418.00	54
101.00	2233	180.00	2304	260.00	90	421.00	726
102.00	58	181.00	1096	262.00	52	422.00	625
103.00	308	182.00	308	264.00	156	423.00	4308
104.00	991	183.00	111	265.00	1359	424.00	1146
105.00	941	184.00	290	266.00	130	425.00	142
106.00	50	185.00	2031	268.00	83	427.00	114
107.00	15148	186.00	12965	269.00	57	428.00	50
108.00	2094	187.00	3749	270.00	52	429.00	128
109.00	60	188.00	598	271.00	222	430.00	207
110.00	22744	189.00	768	272.00	306	431.00	303
111.00	3750	190.00	166	273.00	2020	432.00	210
112.00	505	191.00	443	274.00	4356	433.00	363

Report Date: 20-Nov-2014 10:09:35 Chrom Revision: 2.2 06-Nov-2014 14:50:32
Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1901.D\8270_LLPAH_CMSK.rslt\spectra.d
Injection Date: 19-Nov-2014 12:15:30
Spectrum: Tune Spec: Scans 270-272(4.47-4.48) Bgrd 267(4.45)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 311

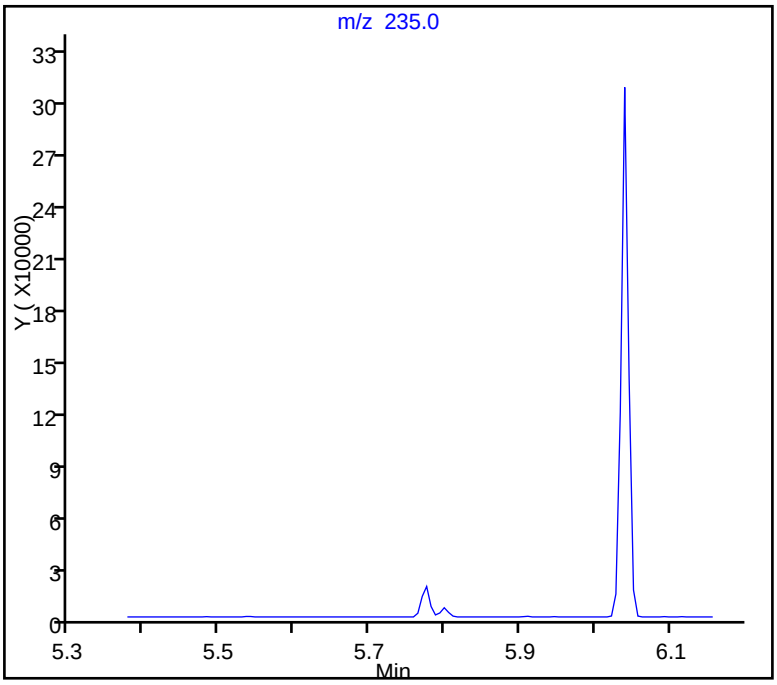
m/z	Y	m/z	Y	m/z	Y	m/z	Y
113.00	175	192.00	1063	275.00	20424	434.00	210
115.00	90	193.00	1679	276.00	3084	435.00	426
116.00	295	194.00	448	277.00	2022	436.00	649
117.00	14678	195.00	354	278.00	400	438.00	400
118.00	1174	196.00	3050	279.00	64	439.00	459
119.00	54	197.00	739	283.00	284	440.00	63
120.00	202	198.00	75544	284.00	215	441.00	15564
121.00	126	199.00	5060	285.00	356	442.00	94744
122.00	725	200.00	348	286.00	58	443.00	19552
123.00	1297	201.00	528	288.00	101	444.00	1931
124.00	706	202.00	120	289.00	85		

Breakdown Report

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1901.D				
Injection Date:	19-Nov-2014 12:15:30	Instrument ID:	CMSK		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	RM	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

29 4,4'-DDT, Detector: MS SCAN



SW-846 Method

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

29 4,4'-DDT, Area = 203817
28 4,4'-DDD, Area = 17434
30 4,4'-DDE, Area = 710

%Breakdown: 8.17%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Savannah

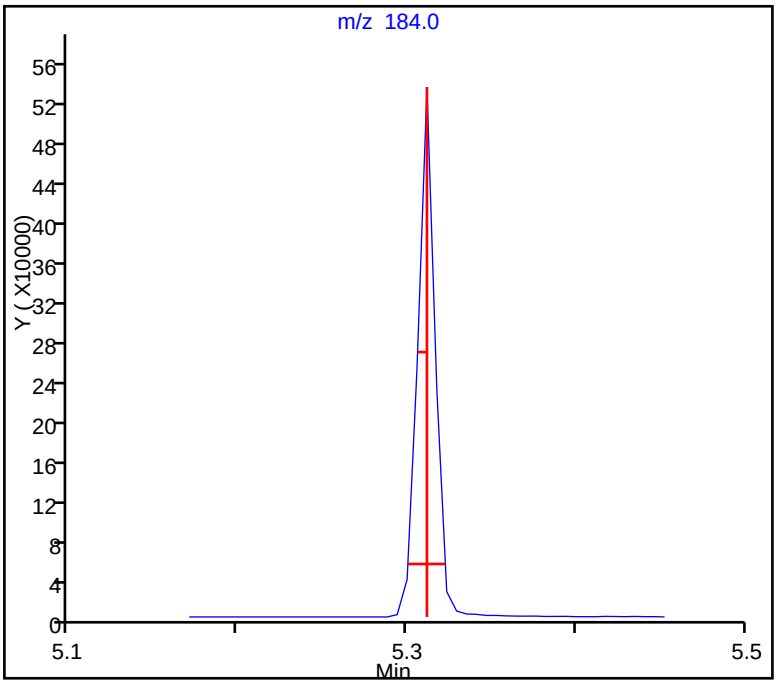
Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1901.D				
Injection Date:	19-Nov-2014 12:15:30	Instrument ID:	CMSK		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	RM	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

31 Benzidine_T, Detector: MS SCAN

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

Back Width = 0.011 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.0, Max. Tailing < 2.00
Passed



Peak Tailing Report

TestAmerica Savannah

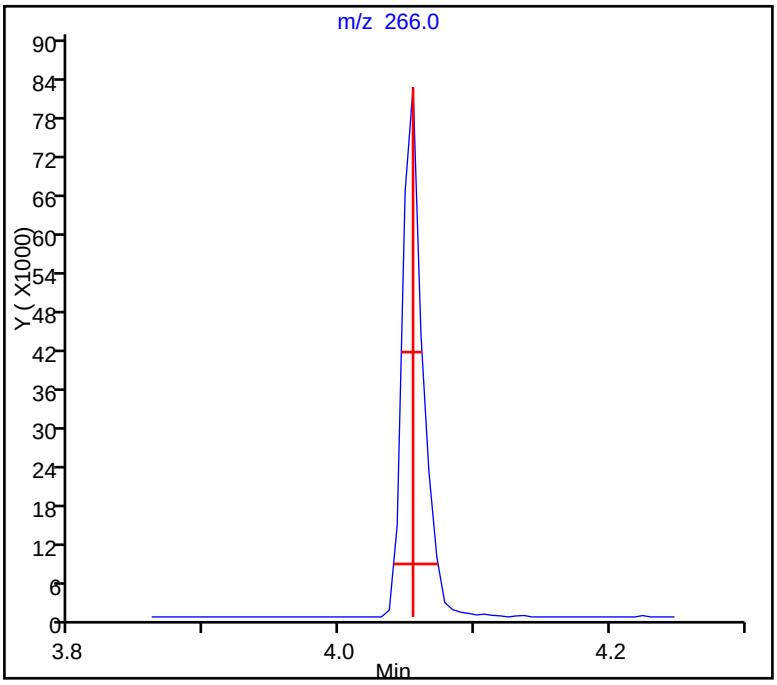
Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1901.D				
Injection Date:	19-Nov-2014 12:15:30	Instrument ID:	CMSK		
Lims ID:	DFTPP				
Client ID:					
Operator ID:	RM	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	8270_LLPAH_CMSK	Limit Group:	8270D_LL_PAH		

32 Pentachlorophenol_T, Detector: MS SCAN

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

Back Width = 0.019 (min.)
Front Width = 0.014 (min.)

Tailing Factor = 1.3, Max. Tailing < 2.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Savannah
Job No.: 680-107310-1
SDG No.: 680-107310-1
Client Sample ID:
Lab Sample ID: MB 680-359074/11-A
Matrix: Solid
Lab File ID: 2KK1916.D
Analysis Method: 8270D_LL_PAH
Date Collected:
Extract. Method: 3546
Date Extracted: 11/17/2014 12:45
Sample wt/vol: 30.06(g)
Date Analyzed: 11/19/2014 17:46
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 359503
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	87		36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1916.D				
Lims ID:	MB 680-359074/11-A				
Client ID:					
Sample Type:	MB				
Inject. Date:	19-Nov-2014 17:46:30	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Sample Info:	MB 680-359074/11-A				
Misc. Info.:	680-0014922-016				
Operator ID:	RM	Instrument ID:	CMSK		
Method:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m				
Limit Group:	8270D_LL_PAH				
Last Update:	20-Nov-2014 10:09:35	Calib Date:	19-Nov-2014 14:45:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D				
Column 1 :	Restek RXi-5Sil MS (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK022				
First Level Reviewer: webbk		Date:	20-Nov-2014 08:15:53		

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	3.108	3.114	-0.006	99	727200	2.00	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	93	384021	2.00	2.00	
* 3 Phenanthrene-d10	188	6.363	6.363	0.000	98	616159	2.00	2.00	
* 4 Chrysene-d12	240	9.190	9.196	-0.006	99	522751	2.00	2.00	
* 5 Perylene-d12	264	10.517	10.518	-0.001	99	396436	2.00	2.00	
$ 6 o-Terphenyl	230	6.833	6.839	-0.006	89	338933	2.00	1.74	
30 4,4'-DDE	246	5.635	5.482	0.153	51	179		NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

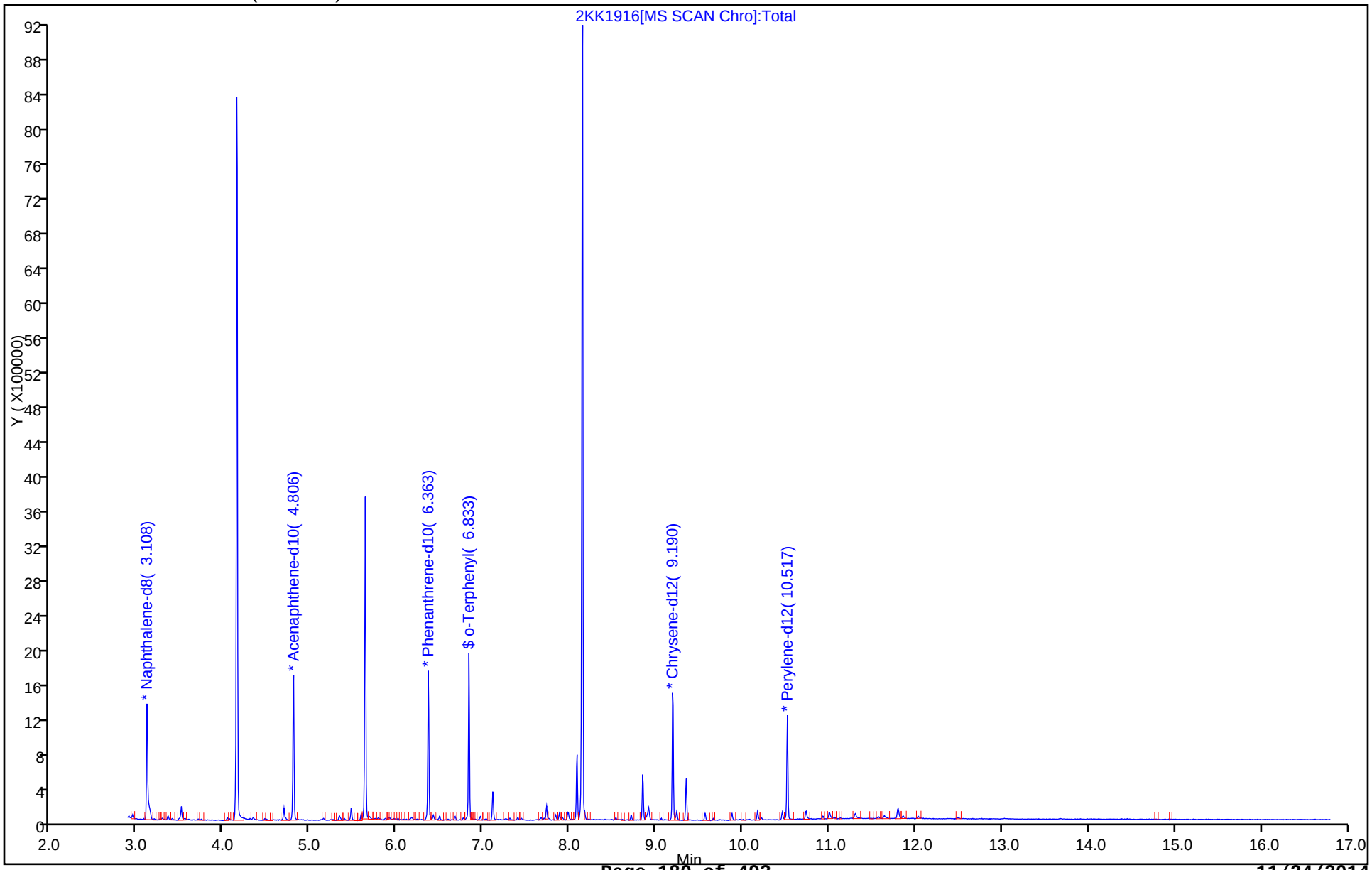
SM-LLISTD_00114 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 20-Nov-2014 10:09:45 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1916.D				
Injection Date:	19-Nov-2014 17:46:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	MB 680-359074/11-A			Worklist Smp#:	16
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8270_LLPAH_CMSK	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.: 680-107310-1
SDG No.: 680-107310-1
Client Sample ID:
Lab Sample ID: LCS 680-359074/12-A
Matrix: Solid
Lab File ID: 2KK1917.D
Analysis Method: 8270D_LL_PAH
Date Collected:
Extract. Method: 3546
Date Extracted: 11/17/2014 12:45
Sample wt/vol: 30.04(g)
Date Analyzed: 11/19/2014 18:09
Con. Extract Vol.: 1(mL)
Dilution Factor: 1
Injection Volume: 1(uL)
Level: (low/med) Low
% Moisture:
GPC Cleanup:(Y/N) N
Analysis Batch No.: 359503
Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	250		6.7	3.3
208-96-8	Acenaphthylene	220		6.7	3.3
120-12-7	Anthracene	254		6.7	3.3
56-55-3	Benzo[a]anthracene	272		6.7	3.3
50-32-8	Benzo[a]pyrene	293		6.7	1.2
205-99-2	Benzo[b]fluoranthene	287		6.7	3.3
191-24-2	Benzo[g,h,i]perylene	335		6.7	3.3
207-08-9	Benzo[k]fluoranthene	300		6.7	2.0
218-01-9	Chrysene	270		6.7	3.3
53-70-3	Dibenz(a,h)anthracene	346		6.7	3.3
206-44-0	Fluoranthene	266		6.7	3.3
86-73-7	Fluorene	238		6.7	3.3
193-39-5	Indeno[1,2,3-cd]pyrene	320		6.7	3.3
90-12-0	1-Methylnaphthalene	257		6.7	3.1
91-57-6	2-Methylnaphthalene	249		6.7	3.3
91-20-3	Naphthalene	233		6.7	3.3
85-01-8	Phenanthrene	277		6.7	2.4
129-00-0	Pyrene	236		6.7	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	65		36-131

TestAmerica Savannah
Target Compound Quantitation Report

Data File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1917.D
Lims ID: LCS 680-359074/12-A
Client ID:
Sample Type: LCS
Inject. Date: 19-Nov-2014 18:09:30 ALS Bottle#: 17 Worklist Smp#: 17
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: LCS 680-359074/12-A
Misc. Info.: 680-0014922-017
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:35 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 20-Nov-2014 08:16:24

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	3.114	3.114	0.000	99	764415	2.00	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	94	412921	2.00	2.00	
* 3 Phenanthrene-d10	188	6.369	6.363	0.006	98	674980	2.00	2.00	
* 4 Chrysene-d12	240	9.201	9.196	0.005	99	743273	2.00	2.00	
* 5 Perylene-d12	264	10.523	10.518	0.005	99	519296	2.00	2.00	
$ 6 o-Terphenyl	230	6.833	6.839	-0.006	90	361849	2.00	1.31	
7 Naphthalene	128	3.132	3.138	-0.006	99	3005981	10.0	7.01	
9 2-Methylnaphthalene	142	3.772	3.778	-0.006	85	1952829	10.0	7.48	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	93	1831678	10.0	7.71	
10 1,1'-Biphenyl	154	4.242	4.242	0.000	99	2533961	10.0	7.67	
11 Acenaphthylene	152	4.659	4.654	0.005	98	2924298	10.0	6.62	
12 Acenaphthene	153	4.842	4.842	0.000	95	1947042	10.0	7.50	
13 Dibenzofuran	168	5.024	5.024	0.000	98	2824094	10.0	7.28	
14 Fluorene	166	5.382	5.382	0.000	96	2201696	10.0	7.16	
15 Phenanthrene	178	6.399	6.393	0.006	97	3393712	10.0	8.32	
16 Anthracene	178	6.451	6.446	0.005	99	3286828	10.0	7.62	
17 Fluoranthene	202	7.679	7.674	0.005	98	3607657	10.0	7.98	
18 Pyrene	202	7.914	7.909	0.005	97	3689557	10.0	7.09	
19 Benzo[a]anthracene	228	9.189	9.190	-0.001	99	3392596	10.0	8.18	
20 Chrysene	228	9.231	9.225	0.006	98	3165498	10.0	8.12	
21 Benzo[b]fluoranthene	252	10.206	10.200	0.006	98	3101245	10.0	8.62	
22 Benzo[k]fluoranthene	252	10.229	10.224	0.005	99	3104693	10.0	9.01	
23 Benzo[a]pyrene	252	10.476	10.471	0.006	97	2658245	10.0	8.80	
24 Indeno[1,2,3-cd]pyrene	276	11.399	11.399	0.000	99	2598276	10.0	9.60	
25 Dibenz(a,h)anthracene	278	11.428	11.422	0.006	98	2208823	10.0	10.4	
26 Benzo[g,h,i]perylene	276	11.640	11.634	0.006	98	2192052	10.0	10.0	

Reagents:

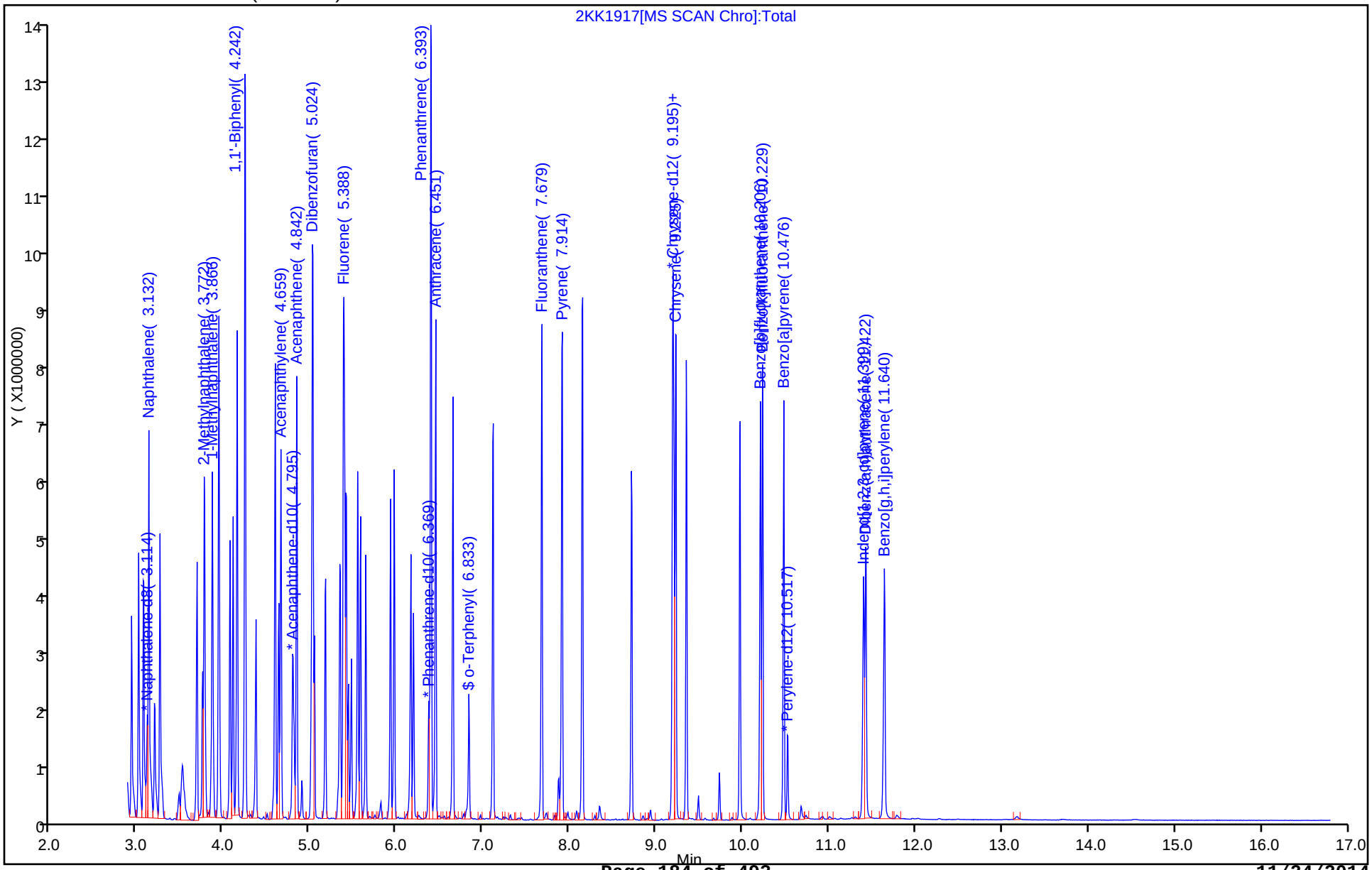
SM-LLISTD_00114 Amount Added: 10.00 Units: uL Run Reagent

Report Date: 20-Nov-2014 10:09:45 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1917.D				
Injection Date:	19-Nov-2014 18:09:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	LCS 680-359074/12-A			Worklist Smp#:	17
Client ID:					
Injection Vol:	1.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8270_LLPAH_CMSK	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.: 680-107310-1

SDG No.: 680-107310-1

Client Sample ID: CV0971A0APa-CS0-4'' MS | Lab Sample ID: 680-107310-6 MS

Matrix: Solid | Lab File ID: 2KK1918.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/13/2014 11:45

Extract. Method: 3546 | Date Extracted: 11/17/2014 12:45

Sample wt/vol: 29.98(g) | Date Analyzed: 11/19/2014 18:32

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

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

% Moisture: 15.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359503 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	257		79	39
208-96-8	Acenaphthylene	255		79	39
120-12-7	Anthracene	288		79	39
56-55-3	Benzo[a]anthracene	653		79	39
50-32-8	Benzo[a]pyrene	730		79	14
205-99-2	Benzo[b]fluoranthene	974		79	39
191-24-2	Benzo[g,h,i]perylene	718		79	39
207-08-9	Benzo[k]fluoranthene	469		79	24
218-01-9	Chrysene	852		79	39
53-70-3	Dibenz(a,h)anthracene	482		79	39
206-44-0	Fluoranthene	904		79	39
86-73-7	Fluorene	221		79	39
193-39-5	Indeno[1,2,3-cd]pyrene	846		79	39
90-12-0	1-Methylnaphthalene	331		79	37
91-57-6	2-Methylnaphthalene	340		79	39
91-20-3	Naphthalene	323		79	39
85-01-8	Phenanthrene	579		79	28
129-00-0	Pyrene	827		79	39

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\CMSK\20141119-14922.b\2KK1918.D
Lims ID: 680-107310-A-6-B MS
Client ID: CV0971A0APa-CS0-4"
Sample Type: MS
Inject. Date: 19-Nov-2014 18:32:30 ALS Bottle#: 18 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 680-107310-A-6-B MS 1:10
Misc. Info.: 680-0014922-018
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:35 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 20-Nov-2014 08:16:42

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	3.114	3.114	0.000	99	622433	0.2000	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	92	332798	0.2000	2.00	
* 3 Phenanthrene-d10	188	6.363	6.363	0.000	99	530914	0.2000	2.00	
* 4 Chrysene-d12	240	9.196	9.196	0.000	99	523615	0.2000	2.00	
* 5 Perylene-d12	264	10.523	10.518	0.005	99	480917	0.2000	2.00	
7 Naphthalene	128	3.132	3.138	-0.006	99	285514	1.00	0.8182	
9 2-Methylnaphthalene	142	3.772	3.778	-0.006	84	182848	1.00	0.8604	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	93	162175	1.00	0.8383	
10 1,1'-Biphenyl	154	4.242	4.242	0.000	96	168967	1.00	0.6346	
11 Acenaphthylene	152	4.654	4.654	0.000	97	227232	1.00	0.6449	
12 Acenaphthene	153	4.836	4.842	-0.006	96	135923	1.00	0.6499	
13 Dibenzofuran	168	5.024	5.024	0.000	94	200257	1.00	0.6483	
14 Fluorene	166	5.376	5.382	-0.006	95	137667	1.00	0.5603	
15 Phenanthrene	178	6.393	6.393	0.000	98	470187	1.00	1.47	
16 Anthracene	178	6.446	6.446	0.000	98	238450	1.00	0.7282	
17 Fluoranthene	202	7.674	7.674	0.000	98	779081	1.00	2.29	
18 Pyrene	202	7.909	7.909	0.000	97	767325	1.00	2.09	
19 Benzo[a]anthracene	228	9.190	9.190	0.000	98	483329	1.00	1.65	
20 Chrysene	228	9.219	9.225	-0.006	98	592943	1.00	2.16	
21 Benzo[b]fluoranthene	252	10.200	10.200	0.000	98	770155	1.00	2.47	
22 Benzo[k]fluoranthene	252	10.224	10.224	0.000	99	378689	1.00	1.19	
23 Benzo[a]pyrene	252	10.471	10.471	0.000	97	483532	1.00	1.85	
24 Indeno[1,2,3-cd]pyrene	276	11.399	11.399	0.000	99	404087	1.00	2.14	
25 Dibenz(a,h)anthracene	278	11.422	11.422	0.000	95	218766	1.00	1.22	
26 Benzo[g,h,i]perylene	276	11.640	11.634	0.006	98	367154	1.00	1.82	
31 Benzidine_T	184	5.312	5.312	0.000	0	560		NR	
29 4,4'-DDT	235	6.193	6.040	0.153	63	1349		NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

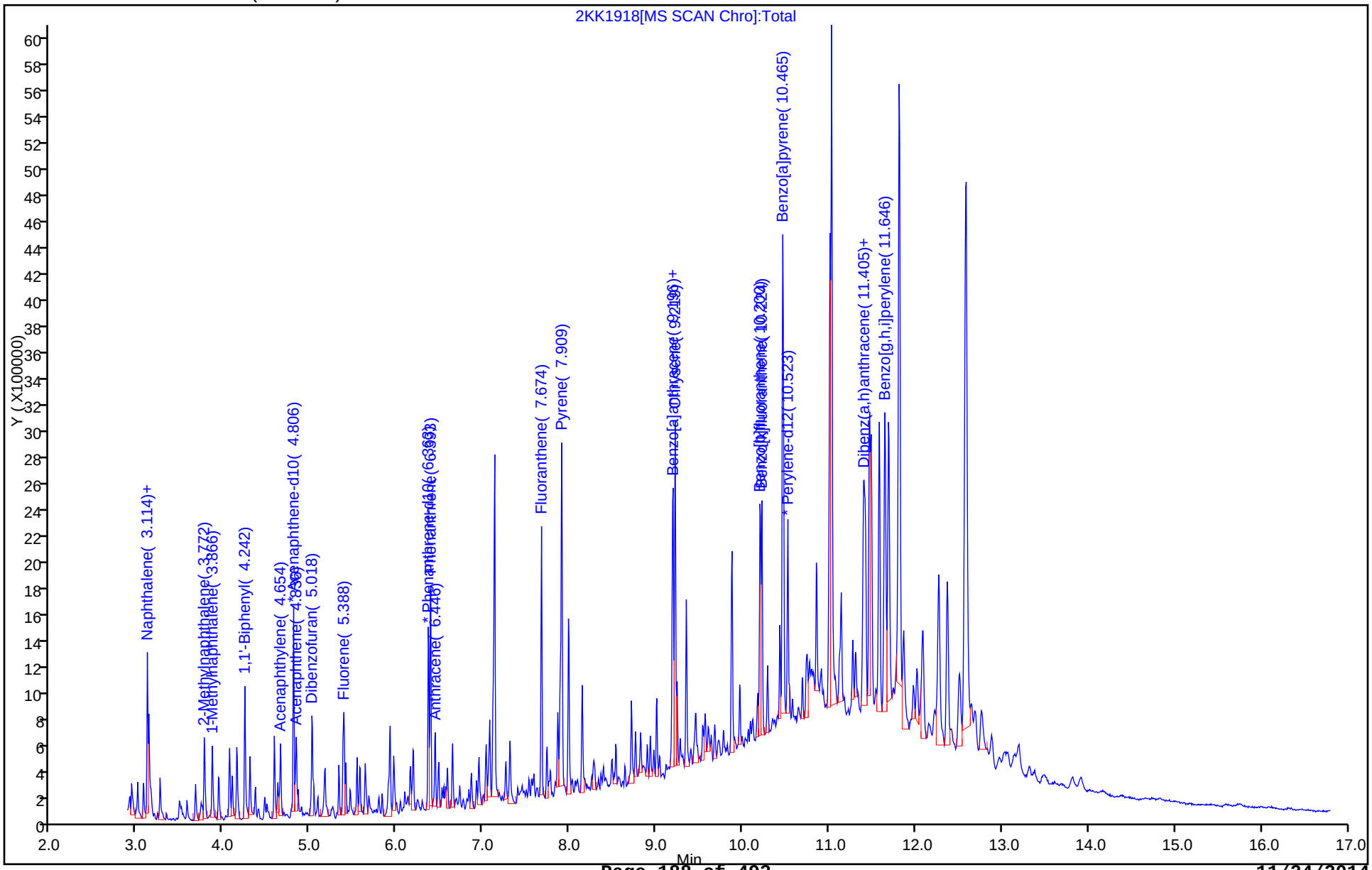
SM-LLISTD_00114	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Nov-2014 10:09:44 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1918.D				
Injection Date:	19-Nov-2014 18:32:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-107310-A-6-B MS			Worklist Smp#:	18
Client ID:	CV0971A0APa-CS0-4"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	18
Method:	8270_LLPAH_CMSK	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.: 680-107310-1

SDG No.: 680-107310-1

Client Sample ID: CV0971AOAPa-CS0-4'' MSD | Lab Sample ID: 680-107310-6 MSD

Matrix: Solid | Lab File ID: 2KK1919.D

Analysis Method: 8270D_LL_PAH | Date Collected: 11/13/2014 11:45

Extract. Method: 3546 | Date Extracted: 11/17/2014 12:45

Sample wt/vol: 30.06(g) | Date Analyzed: 11/19/2014 18:55

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

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

% Moisture: 15.5 | GPC Cleanup:(Y/N) N

Analysis Batch No.: 359503 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
83-32-9	Acenaphthene	282		79	39
208-96-8	Acenaphthylene	318		79	39
120-12-7	Anthracene	346		79	39
56-55-3	Benzo[a]anthracene	980		79	39
50-32-8	Benzo[a]pyrene	1030		79	14
205-99-2	Benzo[b]fluoranthene	1290		79	39
191-24-2	Benzo[g,h,i]perylene	894		79	39
207-08-9	Benzo[k]fluoranthene	718		79	24
218-01-9	Chrysene	1090		79	39
53-70-3	Dibenz(a,h)anthracene	524		79	39
206-44-0	Fluoranthene	1130		79	39
86-73-7	Fluorene	270		79	39
193-39-5	Indeno[1,2,3-cd]pyrene	844		79	39
90-12-0	1-Methylnaphthalene	346		79	37
91-57-6	2-Methylnaphthalene	361		79	39
91-20-3	Naphthalene	349		79	39
85-01-8	Phenanthrene	689		79	28
129-00-0	Pyrene	1150		79	39

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\CMSK\20141119-14922.b\2KK1919.D
Lims ID: 680-107310-A-6-C MSD
Client ID: CV0971AOAPa-CS0-4"
Sample Type: MSD
Inject. Date: 19-Nov-2014 18:55:30 ALS Bottle#: 19 Worklist Smp#: 19
Injection Vol: 1.0 ul Dil. Factor: 10.0000
Sample Info: 680-107310-A-6-C MSD 1:10
Misc. Info.: 680-0014922-019
Operator ID: RM Instrument ID: CMSK

Method: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\8270_LLPAH_CMSK.m
Limit Group: 8270D_LL_PAH
Last Update: 20-Nov-2014 10:09:35 Calib Date: 19-Nov-2014 14:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1908.D

Column 1 : Restek RXi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: webbk Date: 20-Nov-2014 08:17:06

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	3.114	3.114	0.000	100	679194	0.2000	2.00	
* 2 Acenaphthene-d10	164	4.806	4.806	0.000	92	366775	0.2000	2.00	
* 3 Phenanthrene-d10	188	6.369	6.363	0.006	99	596548	0.2000	2.00	
* 4 Chrysene-d12	240	9.195	9.196	-0.001	99	548896	0.2000	2.00	
* 5 Perylene-d12	264	10.523	10.518	0.005	99	410312	0.2000	2.00	
7 Naphthalene	128	3.132	3.138	-0.006	99	337377	1.00	0.8860	
9 2-Methylnaphthalene	142	3.772	3.778	-0.006	85	212372	1.00	0.9158	
8 1-Methylnaphthalene	142	3.866	3.866	0.000	93	185572	1.00	0.8791	
10 1,1'-Biphenyl	154	4.242	4.242	0.000	96	207249	1.00	0.7062	
11 Acenaphthylene	152	4.660	4.654	0.006	97	313225	1.00	0.8063	
12 Acenaphthene	153	4.842	4.842	0.000	95	164819	1.00	0.7151	
13 Dibenzofuran	168	5.024	5.024	0.000	100	249130	1.00	0.7317	
14 Fluorene	166	5.382	5.382	0.000	94	185713	1.00	0.6857	
15 Phenanthrene	178	6.393	6.393	0.000	98	630466	1.00	1.75	
16 Anthracene	178	6.446	6.446	0.000	98	323768	1.00	0.8793	
17 Fluoranthene	202	7.680	7.674	0.006	98	1099171	1.00	2.86	
18 Pyrene	202	7.909	7.909	0.000	97	1118138	1.00	2.91	
19 Benzo[a]anthracene	228	9.190	9.190	0.000	99	762613	1.00	2.49	
20 Chrysene	228	9.225	9.225	0.000	98	795390	1.00	2.76	
21 Benzo[b]fluoranthene	252	10.206	10.200	0.006	99	881524	1.00	3.28	
22 Benzo[k]fluoranthene	252	10.230	10.224	0.006	1	496668	1.00	1.82	
23 Benzo[a]pyrene	252	10.476	10.471	0.006	97	589755	1.00	2.62	
24 Indeno[1,2,3-cd]pyrene	276	11.399	11.399	0.000	99	423960	1.00	2.14	
25 Dibenz(a,h)anthracene	278	11.428	11.422	0.006	95	203902	1.00	1.33	
26 Benzo[g,h,i]perylene	276	11.646	11.634	0.012	98	391361	1.00	2.27	
31 Benzidine_T	184	5.312	5.312	0.000	0	432		NR	
28 4,4'-DDD	235	5.964	5.776	0.188	52	503		NR	7
29 4,4'-DDT	235	5.964	6.040	-0.076	55	503		NR	7

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

7 - Failed Limit of Detection

Reagents:

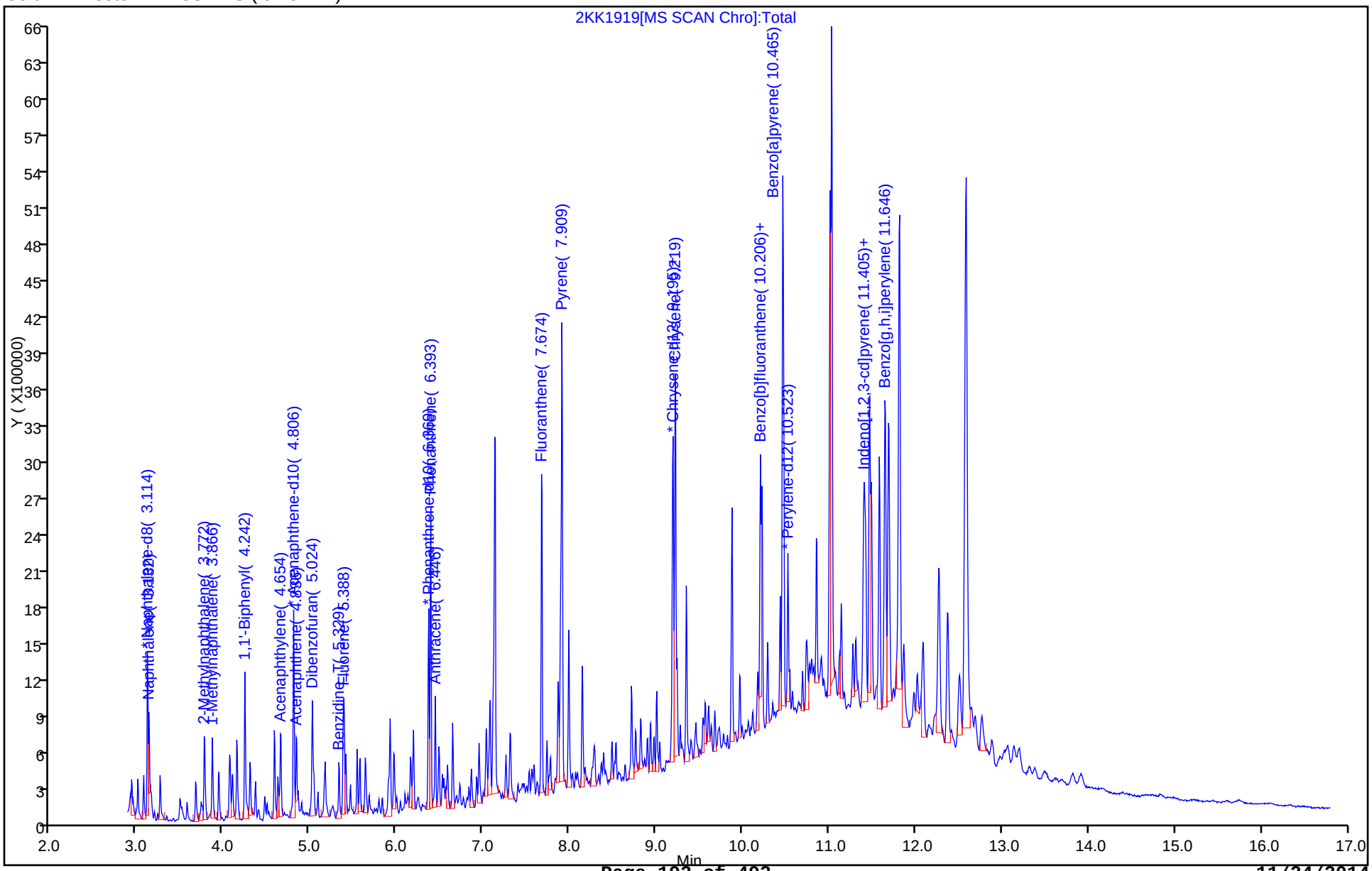
SM-LLISTD_00114	Amount Added: 10.00	Units: uL	Run Reagent

Report Date: 20-Nov-2014 10:09:44 Chrom Revision: 2.2 06-Nov-2014 14:50:32

TestAmerica Savannah

Data File:	\\SAVCHROM\ChromData\CMSK\20141119-14922.b\2KK1919.D				
Injection Date:	19-Nov-2014 18:55:30	Instrument ID:	CMSK	Operator ID:	RM
Lims ID:	680-107310-A-6-C MSD			Worklist Smp#:	19
Client ID:	CV0971AOAPa-CS0-4"				
Injection Vol:	1.0 ul	Dil. Factor:	10.0000	ALS Bottle#:	19
Method:	8270_LLPAH_CMSK	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.: 680-107310-1

SDG No.: 680-107310-1

Instrument ID: CMSK Start Date: 11/19/2014 12:15

Analysis Batch Number: 359503 End Date: 11/19/2014 21:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 680-359503/1		11/19/2014 12:15	1	2KK1901.D	RXi- 5Sil MS 0.25(mm)
ICIS 680-359503/2		11/19/2014 12:29	1	2KK1902.D	RXi- 5Sil MS 0.25(mm)
IC 680-359503/3		11/19/2014 12:51	1	2KK1903.D	RXi- 5Sil MS 0.25(mm)
IC 680-359503/4		11/19/2014 13:14	1	2KK1904.D	RXi- 5Sil MS 0.25(mm)
IC 680-359503/5		11/19/2014 13:36	1	2KK1905.D	RXi- 5Sil MS 0.25(mm)
IC 680-359503/6		11/19/2014 13:59	1	2KK1906.D	RXi- 5Sil MS 0.25(mm)
IC 680-359503/7		11/19/2014 14:22	1	2KK1907.D	RXi- 5Sil MS 0.25(mm)
IC 680-359503/8		11/19/2014 14:45	1	2KK1908.D	RXi- 5Sil MS 0.25(mm)
ICV 680-359503/9		11/19/2014 15:07	1	2KK1909.D	RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/19/2014 15:30	1		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/19/2014 15:53	20		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/19/2014 16:16	20		RXi- 5Sil MS 0.25(mm)
ZZZZZ		11/19/2014 17:01	50		RXi- 5Sil MS 0.25(mm)
MB 680-359074/11-A		11/19/2014 17:46	1	2KK1916.D	RXi- 5Sil MS 0.25(mm)
LCS 680-359074/12-A		11/19/2014 18:09	1	2KK1917.D	RXi- 5Sil MS 0.25(mm)
680-107310-6 MS	CV0971A0APa-CS0-4'' MS	11/19/2014 18:32	10	2KK1918.D	RXi- 5Sil MS 0.25(mm)
680-107310-6 MSD	CV0971AOAPa-CS0-4'' MSD	11/19/2014 18:55	10	2KK1919.D	RXi- 5Sil MS 0.25(mm)
680-107310-6	CV0971A0APa-CS0-4''	11/19/2014 19:17	10	2KK1920.D	RXi- 5Sil MS 0.25(mm)
680-107310-1	CV1061A-CS0-4''	11/19/2014 19:40	10	2KK1921.D	RXi- 5Sil MS 0.25(mm)
680-107310-2	CV1061B-CS0-4''	11/19/2014 20:03	10	2KK1922.D	RXi- 5Sil MS 0.25(mm)
680-107310-3	CV1063A-CS0-4''	11/19/2014 20:25	10	2KK1923.D	RXi- 5Sil MS 0.25(mm)
680-107310-4	CV1063A-CSD0-4''	11/19/2014 20:48	10	2KK1924.D	RXi- 5Sil MS 0.25(mm)
680-107310-5	CV1063B-CS0-4''	11/19/2014 21:11	10	2KK1925.D	RXi- 5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-107310-1

SDG No.: 680-107310-1

Batch Number: 359074 Batch Start Date: 11/17/14 12:45 Batch Analyst: Vasquez, Juana M

Batch Method: 3546 Batch End Date: 11/17/14 13:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	EX8270SPKL1 00017	LLBNAwkSUR 00080	AnalysisComment	
680-107310-A-1	CV1061A-CS0-4''	3546, 8270D_LL_PAH	T	29.96 g	1 mL		1 mL		
680-107310-A-2	CV1061B-CS0-4''	3546, 8270D_LL_PAH	T	30.03 g	1 mL		1 mL		
680-107310-A-3	CV1063A-CS0-4''	3546, 8270D_LL_PAH	T	30.00 g	1 mL		1 mL		
680-107310-A-4	CV1063A-CSD0-4''	3546, 8270D_LL_PAH	T	29.99 g	1 mL		1 mL		
680-107310-A-5	CV1063B-CS0-4''	3546, 8270D_LL_PAH	T	30.04 g	1 mL		1 mL		
680-107310-A-6	CV0971A0APa-CS0-4''	3546, 8270D_LL_PAH	T	30.01 g	1 mL		1 mL		
MB 680-359074/11		3546, 8270D_LL_PAH		30.06 g	1 mL		1 mL		
LCS 680-359074/12		3546, 8270D_LL_PAH		30.04 g	1 mL	100 uL	1 mL	8270LLSPK	
680-107310-A-6 MS	CV0971A0APa-CS0-4''	3546, 8270D_LL_PAH	T	29.98 g	1 mL	100 uL	1 mL	8270LLSPK	
680-107310-A-6 MSD	CV0971AOAPa-CS0-4''	3546, 8270D_LL_PAH	T	30.06 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.: 680-107310-1

SDG No.: 680-107310-1

Batch Number: 359074 Batch Start Date: 11/17/14 12:45 Batch Analyst: Vasquez, Juana M

Batch Method: 3546 Batch End Date: 11/17/14 13:15

Batch Notes	
Balance ID	30
Batch Comment	8270LL BOX LL225
Concentration End Time	1529
Concentration Start Time	1447
Person's name who did the concentration	JV
Exchange Solvent Lot #	3844998
Exchange Solvent Name	MECL2
Filter Paper Lot Number	3835800
Final Concentrator Volume	1 mL
MeCl2/Acetone Lot #	3787739
Microwave Oven ID	1
Microwave Start Time	1245
Microwave Stop Time	1315
Na2SO4 Lot Number	3841043
Ottawa Sand Lot #	3812074
Person's name who did the prep	JV
Person who performed Spike	JV
Person who witnessed spiking	MAV

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: 680-107310-1

SDG No.: 680-107310-1

Project: 35th Avenue Superfund Site

Client Sample ID	Lab Sample ID
CV1061A-CS0-4''	680-107310-1
CV1061B-CS0-4''	680-107310-2
CV1063A-CS0-4''	680-107310-3
CV1063A-CSD0-4''	680-107310-4
CV1063B-CS0-4''	680-107310-5
CV0971A0APa-CS0-4''	680-107310-6

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV1061A-CS0-4''
Lab Sample ID: 680-107310-1
Lab Name: TestAmerica Savannah
Job No.: 680-107310-1
SDG ID.: 680-107310-1
Matrix: Solid
Date Sampled: 11/13/2014 10:35
Reporting Basis: DRY
Date Received: 11/15/2014 09:30
% Solids: 85.0

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	13000	20	10	mg/Kg			1	6010C
7440-38-2	Arsenic	55	2.0	0.60	mg/Kg			1	6010C
7439-89-6	Iron	69000	20	7.1	mg/Kg			1	6010C
7439-92-1	Lead	500	1.0	0.54	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV1061B-CS0-4''
Lab Sample ID: 680-107310-2
Lab Name: TestAmerica Savannah
Job No.: 680-107310-1
SDG ID.: 680-107310-1
Matrix: Solid
Date Sampled: 11/13/2014 10:40
Reporting Basis: DRY
Date Received: 11/15/2014 09:30
% Solids: 85.7

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	41	2.1	0.61	mg/Kg			1	6010C
7439-89-6	Iron	77000	21	7.2	mg/Kg			1	6010C
7439-92-1	Lead	370	1.0	0.55	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV1063A-CS0-4''
Lab Sample ID: 680-107310-3
Lab Name: TestAmerica Savannah
Job No.: 680-107310-1
SDG ID.: 680-107310-1
Matrix: Solid
Date Sampled: 11/13/2014 11:05
Reporting Basis: DRY
Date Received: 11/15/2014 09:30
% Solids: 81.8

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
7429-90-5	Aluminum	13000	22	11	mg/Kg			1	6010C
7440-38-2	Arsenic	25	2.2	0.66	mg/Kg			1	6010C
7439-89-6	Iron	45000	22	7.8	mg/Kg			1	6010C
7439-92-1	Lead	310	1.1	0.59	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV1063A-CSD0-4''

Lab Sample ID: 680-107310-4

Lab Name: TestAmerica Savannah

Job No.: 680-107310-1

SDG ID.: 680-107310-1

Matrix: Solid

Date Sampled: 11/13/2014 11:10

Reporting Basis: DRY

Date Received: 11/15/2014 09:30

% Solids: 82.5

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	26	2.1	0.61	mg/Kg			1	6010C
7439-89-6	Iron	46000	21	7.2	mg/Kg			1	6010C
7439-92-1	Lead	320	1.0	0.54	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV1063B-CS0-4''
Lab Sample ID: 680-107310-5
Lab Name: TestAmerica Savannah
Job No.: 680-107310-1
SDG ID.: 680-107310-1
Matrix: Solid
Date Sampled: 11/13/2014 11:15
Reporting Basis: DRY
Date Received: 11/15/2014 09:30
% Solids: 82.8

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	27	2.4	0.71	mg/Kg			1	6010C
7439-89-6	Iron	46000	24	8.5	mg/Kg			1	6010C
7439-92-1	Lead	610	1.2	0.64	mg/Kg			1	6010C

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: CV0971A0APa-CS0-4''

Lab Sample ID: 680-107310-6

Lab Name: TestAmerica Savannah

Job No.: 680-107310-1

SDG ID.: 680-107310-1

Matrix: Solid

Date Sampled: 11/13/2014 11:45

Reporting Basis: DRY

Date Received: 11/15/2014 09:30

% Solids: 84.5

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	23	2.1	0.61	mg/Kg			1	6010C
7439-89-6	Iron	36000	21	7.3	mg/Kg			1	6010C
7439-92-1	Lead	190	1.0	0.55	mg/Kg			1	6010C

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107310-1

SDG No.: 680-107310-1

ICV Source: P_ICV_wk_00230 Concentration Units: ug/L

CCV Source: P_CCV_wk_00129

Analyte	ICV 680-359921/4 11/20/2014 14:35				CCV 680-359921/13 11/20/2014 15:15				CCV 680-359921/36 11/20/2014 16:54			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	997		1000	100	4900		5000	98	4910		5000	98
Arsenic	1020		1000	102	511		500	102	490		500	98
Iron	1010		1000	101	4960		5000	99	4960		5000	99
Lead	1010		1000	101	505		500	101	503		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.: 680-107310-1

SDG No.: 680-107310-1

ICV Source: P_ICV_wk_00230 Concentration Units: ug/L

CCV Source: P_CCV_wk_00129

Analyte	CCV 680-359921/48 11/20/2014 17:53				CCV 680-359921/60 11/20/2014 18:44							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	4890		5000	98	4900		5000	98				
Arsenic	498		500	100	495		500	99				
Iron	4960		5000	99	4980		5000	100				
Lead	500		500	100	499		500	100				

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.: 680-107310-1

SDG No.: 680-107310-1

Method: 6010C Instrument ID: ICPE

Lab Sample ID: CRI 680-359921/7 Concentration Units: ug/L

CRQL Check Standard Source: P_RL_Int_00036

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Aluminum	200	201		100	70-130
Arsenic	20.0	23.6		118	70-130
Iron	50.0	200	U	112	70-130
Lead	10.0	11.8		118	70-130

Lab Sample ID: CRI 680-359921/224 Concentration Units: ug/L

CRQL Check Standard Source: P_RL_Int_00036

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Aluminum	200	197	J	99	70-130
Arsenic	20.0	23.6		118	70-130
Iron	50.0	200	U	102	70-130
Lead	10.0	9.31	J	93	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.: 680-107310-1

SDG No.: 680-107310-1

Concentration Units: ug/L

Analyte	RL	ICBIS 680-359921/5 11/20/2014 14:40		CCB 680-359921/14 11/20/2014 15:20		CCB 680-359921/37 11/20/2014 16:58		CCB 680-359921/49 11/20/2014 17:57	
		Found	C	Found	C	Found	C	Found	C
Aluminum	200	200	U	200	U	200	U	200	U
Arsenic	20	6.56	J	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.: 680-107310-1

SDG No.: 680-107310-1

Concentration Units: ug/L

Analyte	RL	CCB 680-359921/61 11/20/2014 18:48							
		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
METHOD BLANK
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107310-1

SDG No.: 680-107310-1

Concentration Units: mg/Kg Lab Sample ID: MB 680-359032/1-A

Instrument Code: ICPE Batch No.: 359921

CAS No.	Analyte	Concentration	C	Q	Method
7429-90-5	Aluminum	18	U		6010C
7440-38-2	Arsenic	1.8	U		6010C
7439-89-6	Iron	18	U		6010C
7439-92-1	Lead	0.91	U		6010C

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107310-1

SDG No.: 680-107310-1

Lab Sample ID: ICSA 680-359921/8 Instrument ID: ICPE

Lab File ID: E11202014B.csv ICS Source: P_ICSA_wk_00039

Concentration Units: ug/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**500000**	**540252**	**108**
Arsenic		**6.05**	
Iron	**200000**	**189277**	**95**
Lead		**6.02**	
Antimony		*4.22*	
Barium		*-2.54*	
Beryllium		*-0.153*	
Boron		*5.76*	
Cadmium		*2.35*	
Calcium	*500000*	*505725*	*101*
Chromium		*0.438*	
Cobalt		*-0.183*	
Copper		*1.57*	
Magnesium	*500000*	*519926*	*104*
Manganese		*3.71*	
Molybdenum		*1.52*	
Nickel		*1.36*	
Potassium		*2.72*	
Selenium		*0.0107*	
Silver		*-0.0603*	
Sodium		*-299*	
Strontium		*2.82*	
Thallium		*-5.53*	
Tin		*-3.59*	
Titanium		*0.842*	
Vanadium		*-0.0233*	
Zinc		*7.60*	

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.: 680-107310-1

SDG No.: 680-107310-1

Lab Sample ID: ICSAB 680-359921/9 Instrument ID: ICPE

Lab File ID: E11202014B.csv ICS Source: P_ICSAB_wk_00054

Concentration Units: ug/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**500000**	**547329**	**109**
Arsenic	**100**	**114**	**114**
Iron	**200000**	**190300**	**95**
Lead	**50.0**	**54.9**	**110**
Antimony	*600*	*662*	*110*
Barium	*500*	*534*	*107*
Beryllium	*500*	*511*	*102*
Boron		*1.26*	
Cadmium	*1000*	*1000*	*100*
Calcium	*500000*	*499983*	*100*
Chromium	*500*	*517*	*103*
Cobalt	*500*	*506*	*101*
Copper	*500*	*598*	*120*
Magnesium	*500000*	*524137*	*105*
Manganese	*500*	*541*	*108*
Molybdenum	*1000*	*1025*	*103*
Nickel	*1000*	*988*	*99*
Potassium		*0.572*	
Selenium	*50.0*	*48.8*	*98*
Silver	*200*	*223*	*111*
Sodium		*-452*	
Strontium		*-12.2*	
Thallium	*100*	*90.2*	*90*
Tin	*1000*	*1018*	*102*
Titanium		*2.59*	
Vanadium	*500*	*495*	*99*
Zinc	*1000*	*992*	*99*

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: CV0971A0APa-CS0-4'' MS
Lab ID: 680-107310-6 MS
Lab Name: TestAmerica Savannah
Job No.: 680-107310-1
SDG No.: 680-107310-1
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 84.5

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Aluminum	14800		13000		510	266	75-125	4	6010C
Arsenic	34.5		23		10.2	109	75-125		6010C
Iron	36800		36000		510	121	75-125	4	6010C
Lead	213		190		51.0	53	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 DUPLICATE SAMPLE RECOVERY
METALS

Client ID: CV0971AOAPa-CS0-4'' MSD
Lab ID: 680-107310-6 MSD
Lab Name: TestAmerica Savannah
Job No.: 680-107310-1
SDG No.: 680-107310-1
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 84.5

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Aluminum	14500		515	196	75-125	2	20	4	6010C
Arsenic	36.0		10.3	122	75-125	4	20		6010C
Iron	37500		515	246	75-125	2	20	4	6010C
Lead	222		51.5	70	75-125	4	20	F1	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: CV0971A0APa-CS0-4'' PDS
Lab ID: 680-107310-6 PDS
Lab Name: TestAmerica Savannah
Job No.: 680-107310-1
SDG No.: 680-107310-1
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		104	NC	80-120		6010C
Arsenic	33.8		23		10.4	100	80-120		6010C
Iron	36700		36000		1040	NC	80-120		6010C
Lead	193		190		10.4	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

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 680-359032/2-A

Lab Name: TestAmerica Savannah Job No.: 680-107310-1

Sample Matrix: Solid LCS Source: MS_LCS1_WK_00015

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Aluminum	495	480		97	80	120		6010C
Arsenic	9.90	10.3		104	80	120		6010C
Iron	495	484		98	80	120		6010C
Lead	49.5	48.7		98	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: 680-107310-6

SDG No: 680-107310-1

Lab Name: TestAmerica Savannah Job No: 680-107310-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Aluminum	13000		13700		1.6		6010C
Arsenic	23		25.1		NC		6010C
Iron	36000		38500		6.2		6010C
Lead	190		199		7.0		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: 680-107310-1

SDG Number: 680-107310-1

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: 680-107310-1

SDG Number: 680-107310-1

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: 680-107310-1

SDG No.: 680-107310-1

ICP-AES Instrument ID: ICPE Date: 11/14/2014

Analyte	Wave Length	Ag	Al	As	B	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg
Aluminum	308.215									-0.001000			0.000016		
Antimony	206.834						0.000900				0.009000		0.000013		
Arsenic	188.980												-0.000010		
Barium	389.178												0.000035		0.000092
Beryllium	313.042														
Boron	249.678												-0.000141		
Cadmium	226.502												0.000089		
Calcium	370.602												-0.003690		
Chromium	267.716								-0.000200				0.000009		
Cobalt	228.615										0.000200		0.000006		
Copper	324.754												0.000006		
Iron	271.441									0.072100	0.001160				
Lead	220.353		-0.000009							-0.000200	0.000520		0.000043		
Magnesium	279.078		-0.000142												
Manganese	257.610												0.000014		0.000035
Molybdenum	202.032												-0.000007		
Nickel	231.604									-0.000800			0.000028		
Potassium	766.491														
Selenium	196.026												0.000020		
Silver	328.068												-0.000002		
Sodium	330.237												-0.005002		
Strontium	216.596							0.000029					0.000113		
Thallium	190.794									0.002530			-0.000145		
Tin	189.925														
Titanium	334.941														0.000006
Vanadium	292.401										-0.001640		0.000014		
Zinc	206.200										-0.001860		-0.000033		

X-IN

10-IN
ICP-AES INTERELEMENT CORRECTION FACTORS
METALS

Lab Name: TestAmerica Savannah Job Number: 680-107310-1

SDG No.: 680-107310-1

ICP-AES Instrument ID: ICPE Date: 11/14/2014

Analyte	Wave Length	Mn	Mo	Na	Ni	Pb	Sb	Se	Sn	Sr	Ti	Tl	V	Zn	
Aluminum	308.215		0.003600										-0.019788		
Antimony	206.834		-0.012400						0.000200						
Arsenic	188.980		-0.000430												
Barium	389.178		0.000218										0.000095		
Beryllium	313.042		-0.000082										0.000030		
Boron	249.678						0.000900								
Cadmium	226.502										-0.000040				
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										0.004220		
Lead	220.353	0.000130	-0.000970								-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										-0.000825			-0.435620	
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		-0.007430								0.000275				
Zinc	206.200														

X-IN

11-IN
LINEAR RANGES
METALS

Lab Name: TestAmerica Savannah Job No: 680-107310-1

SDG No.: 680-107310-1

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.: 680-107310-1

SDG No.: 680-107310-1

Prep Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
MB 680-359032/1-A	11/17/2014 09:21	359032	1.10		100
LCS 680-359032/2-A	11/17/2014 09:21	359032	1.01		100
680-107310-6	11/17/2014 09:21	359032	1.14		100
680-107310-6 MS	11/17/2014 09:21	359032	1.16		100
680-107310-6 MSD	11/17/2014 09:21	359032	1.15		100
680-107310-1	11/17/2014 09:21	359032	1.16		100
680-107310-2	11/17/2014 09:21	359032	1.13		100
680-107310-3	11/17/2014 09:21	359032	1.10		100
680-107310-4	11/17/2014 09:21	359032	1.18		100
680-107310-5	11/17/2014 09:21	359032	1.00		100

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107310-1

SDG No.: 680-107310-1

Instrument ID: ICPE Method: 6010C

Start Date: 11/20/2014 14:23 End Date: 11/21/2014 09:49

Lab Sample ID	D/F	Type	Time	Analytes																			
				Al	As	Fe	Pb																
ZZZZZZ			14:23																				
ZZZZZZ			14:27																				
ZZZZZZ			14:31																				
ICV 680-359921/4	1		14:35	X	X	X	X																
ICBIS 680-359921/5	1		14:40	X	X	X	X																
ZZZZZZ			14:44																				
CRI 680-359921/7	1		14:48	X	X	X	X																
ICSA 680-359921/8	1		14:52	X	X	X	X																
ICSAB 680-359921/9	1		14:58	X	X	X	X																
ZZZZZZ			15:02																				
ZZZZZZ			15:07																				
ZZZZZZ			15:11																				
CCV 680-359921/13	1		15:15	X	X	X	X																
CCB 680-359921/14	1		15:20	X	X	X	X																
ZZZZZZ			15:24																				
ZZZZZZ			15:28																				
ZZZZZZ			15:32																				
ZZZZZZ			15:37																				
ZZZZZZ			15:41																				
ZZZZZZ			15:45																				
ZZZZZZ			15:49																				
ZZZZZZ			15:54																				
ZZZZZZ			15:58																				
CCV 680-359921/24			16:03																				
CCB 680-359921/25			16:07																				
ZZZZZZ			16:11																				
ZZZZZZ			16:15																				
ZZZZZZ			16:20																				
ZZZZZZ			16:24																				
ZZZZZZ			16:28																				
ZZZZZZ			16:32																				
ZZZZZZ			16:37																				
ZZZZZZ			16:41																				
ZZZZZZ			16:45																				
ZZZZZZ			16:49																				
CCV 680-359921/36	1		16:54	X	X	X	X																
CCB 680-359921/37	1		16:58	X	X	X	X																
ZZZZZZ			17:02																				
ZZZZZZ			17:06																				
ZZZZZZ			17:11																				
ZZZZZZ			17:22																				
ZZZZZZ			17:26																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107310-1

SDG No.: 680-107310-1

Instrument ID: ICPE Method: 6010C

Start Date: 11/20/2014 14:23 End Date: 11/21/2014 09:49

Lab Sample ID	D/F	Type	Time	Analytes																			
				Al	As	Fe	Pb																
ZZZZZZ			17:31																				
ZZZZZZ			17:35																				
ZZZZZZ			17:40																				
MB 680-359032/1-A	1	T	17:44	X	X	X	X																
LCS 680-359032/2-A	1	T	17:48	X	X	X	X																
CCV 680-359921/48	1		17:53	X	X	X	X																
CCB 680-359921/49	1		17:57	X	X	X	X																
680-107310-6	1	T	18:01	X	X	X	X																
680-107310-6 SD	5	T	18:05	X	X	X	X																
680-107310-6 PDS	1	T	18:10	X	X	X	X																
680-107310-6 MS	1	T	18:14	X	X	X	X																
680-107310-6 MSD	1	T	18:18	X	X	X	X																
680-107310-1	1	T	18:22	X	X	X	X																
680-107310-2	1	T	18:27	X	X	X	X																
680-107310-3	1	T	18:31	X	X	X	X																
680-107310-4	1	T	18:35	X	X	X	X																
680-107310-5	1	T	18:40	X	X	X	X																
CCV 680-359921/60	1		18:44	X	X	X	X																
CCB 680-359921/61	1		18:48	X	X	X	X																
ZZZZZZ			18:52																				
ZZZZZZ			18:57																				
ZZZZZZ			19:01																				
ZZZZZZ			19:05																				
ZZZZZZ			19:09																				
ZZZZZZ			19:14																				
ZZZZZZ			19:18																				
ZZZZZZ			19:22																				
ZZZZZZ			19:26																				
ZZZZZZ			19:31																				
CCV 680-359921/72			19:35																				
CCB 680-359921/73			19:39																				
ZZZZZZ			19:44																				
ZZZZZZ			19:48																				
ZZZZZZ			19:52																				
ZZZZZZ			19:56																				
ZZZZZZ			20:01																				
ZZZZZZ			20:05																				
ZZZZZZ			20:09																				
ZZZZZZ			20:13																				
ZZZZZZ			20:18																				
ZZZZZZ			20:22																				
CCV 680-359921/84			20:26																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107310-1

SDG No.: 680-107310-1

Instrument ID: ICPE Method: 6010C

Start Date: 11/20/2014 14:23 End Date: 11/21/2014 09:49

Lab Sample ID	D/F	Type	Time	Analytes																			
				Al	As	Fe	Pb																
CCB 680-359921/85			20:31																				
ZZZZZZ			20:35																				
ZZZZZZ			20:39																				
ZZZZZZ			20:43																				
ZZZZZZ			20:48																				
ZZZZZZ			20:52																				
ZZZZZZ			20:56																				
ZZZZZZ			21:00																				
ZZZZZZ			21:05																				
ZZZZZZ			21:09																				
ZZZZZZ			21:13																				
CCV 680-359921/96			21:18																				
CCB 680-359921/97			21:22																				
ZZZZZZ			21:26																				
ZZZZZZ			21:30																				
ZZZZZZ			21:35																				
ZZZZZZ			21:39																				
ZZZZZZ			21:43																				
ZZZZZZ			21:47																				
ZZZZZZ			21:52																				
ZZZZZZ			21:56																				
ZZZZZZ			22:00																				
ZZZZZZ			22:04																				
CCV 680-359921/108			22:09																				
CCB 680-359921/109			22:13																				
ZZZZZZ			22:17																				
ZZZZZZ			22:22																				
ZZZZZZ			22:26																				
ZZZZZZ			22:30																				
ZZZZZZ			22:34																				
ZZZZZZ			22:39																				
ZZZZZZ			22:43																				
ZZZZZZ			22:47																				
ZZZZZZ			22:52																				
ZZZZZZ			22:56																				
CCV 680-359921/120			23:00																				
CCB 680-359921/121			23:04																				
ZZZZZZ			23:09																				
ZZZZZZ			23:13																				
ZZZZZZ			23:17																				
ZZZZZZ			23:21																				
ZZZZZZ			23:26																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107310-1

SDG No.: 680-107310-1

Instrument ID: ICPE Method: 6010C

Start Date: 11/20/2014 14:23 End Date: 11/21/2014 09:49

Lab Sample ID	D/F	Type	Time	Analytes																			
				Al	As	Fe	Pb																
ZZZZZZ			23:30																				
ZZZZZZ			23:34																				
ZZZZZZ			23:39																				
ZZZZZZ			23:43																				
ZZZZZZ			23:47																				
CCV 680-359921/132			23:51																				
CCB 680-359921/133			23:56																				
ZZZZZZ			00:00																				
ZZZZZZ			00:04																				
ZZZZZZ			00:09																				
ZZZZZZ			00:13																				
ZZZZZZ			00:17																				
ZZZZZZ			00:21																				
ZZZZZZ			00:26																				
ZZZZZZ			00:30																				
ZZZZZZ			00:34																				
ZZZZZZ			00:39																				
CCV 680-359921/144			00:43																				
CCB 680-359921/145			00:47																				
ZZZZZZ			00:51																				
ZZZZZZ			00:56																				
ZZZZZZ			01:00																				
ZZZZZZ			01:04																				
ZZZZZZ			01:09																				
ZZZZZZ			01:13																				
ZZZZZZ			01:17																				
ZZZZZZ			01:21																				
ZZZZZZ			01:26																				
ZZZZZZ			01:30																				
CCV 680-359921/156			01:34																				
CCB 680-359921/157			01:39																				
ZZZZZZ			01:43																				
ZZZZZZ			01:47																				
ZZZZZZ			01:52																				
ZZZZZZ			01:56																				
ZZZZZZ			02:00																				
ZZZZZZ			02:04																				
ZZZZZZ			02:09																				
ZZZZZZ			02:13																				
ZZZZZZ			02:17																				
ZZZZZZ			02:22																				
CCV 680-359921/168			02:26																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107310-1

SDG No.: 680-107310-1

Instrument ID: ICPE Method: 6010C

Start Date: 11/20/2014 14:23 End Date: 11/21/2014 09:49

Lab Sample ID	D/F	Type	Time	Analytes																			
				Al	As	Fe	Pb																
CCB 680-359921/169			02:30																				
ZZZZZZ			02:34																				
ZZZZZZ			02:39																				
ZZZZZZ			02:43																				
ZZZZZZ			02:47																				
ZZZZZZ			02:52																				
ZZZZZZ			02:56																				
ZZZZZZ			03:00																				
ZZZZZZ			03:05																				
ZZZZZZ			03:09																				
ZZZZZZ			03:13																				
CCV 680-359921/180			03:17																				
CCB 680-359921/181			03:22																				
ZZZZZZ			03:26																				
ZZZZZZ			03:30																				
ZZZZZZ			03:35																				
ZZZZZZ			03:39																				
ZZZZZZ			03:43																				
ZZZZZZ			03:48																				
ZZZZZZ			03:52																				
ZZZZZZ			03:56																				
CCV 680-359921/190			04:00																				
CCB 680-359921/191			04:05																				
ZZZZZZ			04:09																				
ZZZZZZ			04:13																				
ZZZZZZ			04:18																				
ZZZZZZ			04:22																				
ZZZZZZ			04:26																				
ZZZZZZ			04:31																				
ZZZZZZ			04:35																				
ZZZZZZ			04:39																				
ZZZZZZ			04:44																				
ZZZZZZ			04:48																				
CCV 680-359921/202			04:52																				
CCB 680-359921/203			04:57																				
ZZZZZZ			05:01																				
ZZZZZZ			05:05																				
ZZZZZZ			05:10																				
ZZZZZZ			05:14																				
ZZZZZZ			05:18																				
ZZZZZZ			05:22																				
ZZZZZZ			05:27																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Savannah Job No.: 680-107310-1

SDG No.: 680-107310-1

Instrument ID: ICPE Method: 6010C

Start Date: 11/20/2014 14:23 End Date: 11/21/2014 09:49

Lab Sample ID	D/F	Type	Time	Analytes																			
				Al	As	Fe	Pb																
ZZZZZZ			05:31																				
ZZZZZZ			05:35																				
ZZZZZZ			05:40																				
CCV 680-359921/214			05:44																				
CCB 680-359921/215			05:48																				
ZZZZZZ			05:53																				
ZZZZZZ			05:57																				
ZZZZZZ			06:01																				
ZZZZZZ			06:06																				
CCV 680-359921/220			06:10																				
CCB 680-359921/221			06:14																				
CCV 680-359921/222			09:31																				
CCB 680-359921/223			09:36																				
CRI 680-359921/224	1		09:40	X	X	X	X																
CCV 680-359921/225			09:45																				
CCB 680-359921/226			09:49																				

Prep Types

T = Total/NA

Blank (Blk) **11/20/2014, 2:23:09 PM** **Rack S, Tube 1**

Label	Replicates		Concentration
Ag 328.068	-0.1066	0.1114	-0.0048
Al 308.215	1.1806	-0.5481	-0.6324
As 188.980	0.0448	3.9929	-4.0377
B 249.678	0.4695	-0.3413	-0.1282
Ba 389.178	0.1596	-0.3658	0.2062
Be 313.042	0.0000	0.0052	-0.0053
Ca 370.602	-0.2556	1.414	-1.158
Cd 226.502	-0.0301	0.0139	0.0162
Co 228.615	0.2428	-0.0342	-0.2086
Cr 267.716	-0.0321	0.1171	-0.0850
Cu 324.754	0.1077	-0.0278	-0.0799
Fe 271.441	4.8323	-2.6908	-2.1415
K 766.491	0.3175	-0.2117	-0.1058
Mg 279.078	0.4508	1.5678	-2.0186
Mn 257.610	-0.0044	0.0074	-0.0030
Mo 202.032	0.2980	-0.3308	0.0328
Na 330.237	-23.4004	103.665	-80.2651
Ni 231.604	0.5469	0.1291	-0.6761
Pb 220.353	0.1242	0.0003	-0.1244
Sb 206.834	2.4522	-1.2758	-1.1765
Se 196.026	-1.2423	1.5193	-0.2770
Sn 189.925	-0.8991	-0.7198	1.6190
Sr 216.596	-0.0061	0.0560	-0.0499
Ti 334.941	-0.0048	0.0064	-0.0016
Tl 190.794	-2.3073	1.4373	0.8700
V 292.401	-0.0238	-0.0277	0.0515
Zn 206.200	0.2393	0.7223	-0.9616

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	0.0000	ppb	8.959	38.9	-23.0028
Al 308.215	0.0000	ppb	6.945	1.6	437.051
As 188.980	0.0000	ppb	2.237	31.3	-7.1444
B 249.678	0.0000	ppb	6.984	11.9	58.5450
Ba 389.178	0.0000	ppb	6.729	12.0	-55.9551
Be 313.042	0.0000	ppb	9.559	3.3	-291.805
Ca 370.602	0.0000	ppb	3.475	60.5	5.748
Cd 226.502	0.0000	ppb	1.087	6.3	17.1934
Co 228.615	0.0000	ppb	2.626	143.3	-1.8331
Cr 267.716	0.0000	ppb	5.643	16.2	34.8234
Cu 324.754	0.0000	ppb	6.586	2.8	232.808
Fe 271.441	0.0000	ppb	6.918	41.1	16.8391
K 766.491	0.0000	ppb	11.651	4.7	248.177
Mg 279.078	0.0000	ppb	5.018	19.7	25.4839
Mn 257.610	0.0000	ppb	1.302	1.6	81.4360
Mo 202.032	0.0000	ppb	2.143	37.2	5.7654
Na 330.237	0.0000	ppb	4.180	14.4	28.9294
Ni 231.604	0.0000	ppb	1.881	37.5	-5.0138
Pb 220.353	0.0000	ppb	0.201	2.0	9.8372
Sb 206.834	0.0000	ppb	2.896	63.3	-4.5725
Se 196.026	0.0000	ppb	0.604	56.4	-1.0708
Sn 189.925	0.0000	ppb	1.065	19.9	-5.3488
Sr 216.596	0.0000	ppb	0.683	16.5	4.1500
Ti 334.941	0.0000	ppb	1.716	25.5	6.7416

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Tl 190.794	0.0000	ppb	2.130	22.7	-9.3840
V 292.401	0.0000	ppb	1.169	13.3	-8.8150
Zn 206.200	0.0000	ppb	0.969	67.1	1.4451

HIGH STD (Std) **11/20/2014, 2:27:24 PM** **Rack S, Tube 2**

Label	Replicates Concentration		
Ag 328.068	1002.33	995.734	1001.94
Al 308.215	10010.6	9985.43	10004.0
As 188.980	1010.57	996.226	993.208
B 249.678	995.898	1001.15	1002.95
Ba 389.178	10011.3	9993.25	9995.43
Be 313.042	999.793	997.687	1002.52
Ca 370.602	10010	9989	10002
Cd 226.502	1001.62	999.245	999.136
Co 228.615	1001.92	998.989	999.088
Cr 267.716	10015.2	9981.62	10003.2
Cu 324.754	10105.4	9968.18	9926.38
Fe 271.441	10035.1	9968.88	9996.01
K 766.491	20028.4	19986.9	19984.7
Mg 279.078	10022.8	9985.05	9992.15
Mn 257.610	10006.8	9993.33	9999.87
Mo 202.032	1002.31	998.576	999.117
Na 330.237	15073.2	14889.2	15037.7
Ni 231.604	5012.85	4991.13	4996.01
Pb 220.353	1005.15	996.212	998.641
Sb 206.834	1999.35	2002.18	1998.46
Se 196.026	10039.1	9956.03	10004.9
Sn 189.925	10047.0	9991.46	9961.56
Sr 216.596	5014.80	4987.98	4997.21
Ti 334.941	1000.62	998.693	1000.69
Tl 190.794	10033.3	9950.10	10016.6
V 292.401	10006.3	9986.40	10007.3
Zn 206.200	5015.70	4988.42	4995.87

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Ag 328.068	1000.00	ppb	303.932	0.4	82122.3
Al 308.215	10000.0	ppb	88.556	0.1	68311.8
As 188.980	1000.00	ppb	5.167	0.9	550.066
B 249.678	1000.00	ppb	60.904	0.4	16674.6
Ba 389.178	10000.0	ppb	208.878	0.1	211773
Be 313.042	1000.00	ppb	4426.285	0.2	1826235
Ca 370.602	10000	ppb	28.393	0.1	26635
Cd 226.502	1000.00	ppb	58.420	0.1	41659.1
Co 228.615	1000.00	ppb	19.216	0.2	11535.9
Cr 267.716	10000.0	ppb	915.963	0.2	538595
Cu 324.754	10000.0	ppb	6373.758	0.9	680630
Fe 271.441	10000.0	ppb	54.919	0.3	16512.0
K 766.491	20000.0	ppb	1025.307	0.1	832418
Mg 279.078	10000.0	ppb	54.852	0.2	27368.8
Mn 257.610	10000.0	ppb	1361.933	0.1	2022439
Mo 202.032	1000.00	ppb	13.689	0.2	6793.41
Na 330.237	15000.0	ppb	4.333	0.6	694.749
Ni 231.604	5000.00	ppb	34.482	0.2	15122.7

Label	Sol'n Conc.	Units	SD(Int)	%RSD(Int)	Int. (c/s)
Pb 220.353	1000.00	ppb	7.490	0.5	1630.84
Sb 206.834	2000.00	ppb	2.647	0.1	2721.72
Se 196.026	10000.0	ppb	18.003	0.4	4311.40
Sn 189.925	10000.0	ppb	32.856	0.4	7573.50
Sr 216.596	5000.00	ppb	174.981	0.3	64213.1
Ti 334.941	1000.00	ppb	336.351	0.1	296920
Tl 190.794	10000.0	ppb	46.459	0.4	10544.6
V 292.401	10000.0	ppb	308.713	0.1	261823
Zn 206.200	5000.00	ppb	15.757	0.3	5589.00

Ag 328.068 Calibration (ppb) **11/20/2014, 2:27:24 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-23.0028	0.0000	0.0000	-	-
HIGH STD		82122.3	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 82.1 x + -23.0

Al 308.215 Calibration (ppb) **11/20/2014, 2:27:24 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		437.051	0.0000	0.0000	-	-
HIGH STD		68311.8	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: y = 6.8 x + 437.1

As 188.980 Calibration (ppb) **11/20/2014, 2:27:24 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-7.1444	0.0000	0.0000	-	-
HIGH STD		550.066	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 0.6 x + -7.1

B 249.678 Calibration (ppb) **11/20/2014, 2:27:24 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		58.5450	0.0000	0.0000	-	-
HIGH STD		16674.6	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 16.6 x + 58.5

Ba 389.178 Calibration (ppb) **11/20/2014, 2:27:24 PM** **Correlation Coefficient: 1.000000**

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-55.9551	0.0000	0.0000	-	-
HIGH STD		211773	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 21.2 x + -56.0

Be 313.042 Calibration (ppb) 11/20/2014, 2:27:24 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-291.805	0.0000	0.0000	-	-
HIGH STD		1826235	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: y = 1826.5 x + -291.8

Ca 370.602 Calibration (ppb) 11/20/2014, 2:27:24 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		5.748	0.0000	0.0000	-	-
HIGH STD		26635	10000	10000	0.0000	0.0

Curve Type: Linear Equation: y = 2.7 x + 5.7

Cd 226.502 Calibration (ppb) 11/20/2014, 2:27:24 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		17.1934	0.0000	0.0000	-	-
HIGH STD		41659.1	1000.00	1000.000	-0.0002	0.0

Curve Type: Linear Equation: y = 41.6 x + 17.2

Co 228.615 Calibration (ppb) 11/20/2014, 2:27:24 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-1.8331	0.0000	0.0000	-	-
HIGH STD		11535.9	1000.00	1000.000	-0.0001	0.0

Curve Type: Linear Equation: y = 11.5 x + -1.8

Cr 267.716 Calibration (ppb) 11/20/2014, 2:27:24 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		34.8234	0.0000	0.0000	-	-
HIGH STD		538595	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: y = 53.9 x + 34.8

Cu 324.754 Calibration (ppb) 11/20/2014, 2:27:24 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		232.808	0.0000	0.0000	-	-
HIGH STD		680630	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 68.0 x + 232.8

Fe 271.441 Calibration (ppb) 11/20/2014, 2:27:24 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		16.8391	0.0000	0.0000	-	-
HIGH STD		16512.0	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 1.6 x + 16.8

K 766.491 Calibration (ppb) 11/20/2014, 2:27:24 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		248.177	0.0000	0.0000	-	-
HIGH STD		832418	20000.0	20000.0	0.0020	0.0

Curve Type: Linear Equation: y = 41.6 x + 248.2

Mg 279.078 Calibration (ppb) 11/20/2014, 2:27:24 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		25.4839	0.0000	0.0000	-	-
HIGH STD		27368.8	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 2.7 x + 25.5

Mn 257.610 Calibration (ppb) 11/20/2014, 2:27:24 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		81.4360	0.0000	0.0000	-	-
HIGH STD		2022439	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 202.2 x + 81.4

Mo 202.032 Calibration (ppb) 11/20/2014, 2:27:24 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		5.7654	0.0000	0.0000	-	-
HIGH STD		6793.41	1000.00	1000.00	0.0001	0.0

Curve Type: Linear Equation: y = 6.8 x + 5.8

Na 330.237 Calibration (ppb) 11/20/2014, 2:27:24 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		28.9294	0.0000	0.0000	-	-
HIGH STD		694.749	15000.0	15000.0	-0.0010	0.0

Curve Type: Linear Equation: y = 0.0 x + 28.9

Ni 231.604 Calibration (ppb) 11/20/2014, 2:27:24 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-5.0138	0.0000	0.0000	-	-
HIGH STD		15122.7	5000.00	5000.00	-0.0005	0.0

Curve Type: Linear Equation: y = 3.0 x + -5.0

Pb 220.353 Calibration (ppb) 11/20/2014, 2:27:24 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		9.8372	0.0000	0.0000	-	-
HIGH STD		1630.84	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 1.6 x + 9.8

Sb 206.834 Calibration (ppb) 11/20/2014, 2:27:24 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-4.5725	0.0000	0.0000	-	-
HIGH STD		2721.72	2000.00	2000.00	0.0000	0.0

Curve Type: Linear Equation: y = 1.4 x + -4.6

Se 196.026 Calibration (ppb) 11/20/2014, 2:27:24 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-1.0708	0.0000	0.0000	-	-
HIGH STD		4311.40	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: y = 0.4 x + -1.1

Sn 189.925 Calibration (ppb) 11/20/2014, 2:27:24 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-5.3488	0.0000	0.0000	-	-
HIGH STD		7573.50	10000.0	10000.0	0.0010	0.0

Curve Type: Linear Equation: y = 0.8 x + -5.3

Sr 216.596 Calibration (ppb) 11/20/2014, 2:27:24 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		4.1500	0.0000	0.0000	-	-
HIGH STD		64213.1	5000.00	5000.00	0.0000	0.0

Curve Type: Linear Equation: y = 12.8 x + 4.2

Ti 334.941 Calibration (ppb) 11/20/2014, 2:27:24 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		6.7416	0.0000	0.0000	-	-
HIGH STD		296920	1000.00	1000.00	0.0000	0.0

Curve Type: Linear Equation: y = 296.9 x + 6.7

Tl 190.794 Calibration (ppb) 11/20/2014, 2:27:24 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-9.3840	0.0000	0.0000	-	-
HIGH STD		10544.6	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 1.1 x + -9.4

V 292.401 Calibration (ppb) 11/20/2014, 2:27:24 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		-8.8150	0.0000	0.0000	-	-
HIGH STD		261823	10000.0	10000.0	0.0000	0.0

Curve Type: Linear Equation: y = 26.2 x + -8.8

Zn 206.200 Calibration (ppb) 11/20/2014, 2:27:24 PM Correlation Coefficient: 1.000000

Label	Flags	Int. (c/s)	Std Conc.	Calc Conc.	Error	%Error
Blank		1.4451	0.0000	0.0000	-	-
HIGH STD		5589.00	5000.00	5000.00	-0.0005	0.0

Curve Type: Linear Equation: y = 1.1 x + 1.4

Lab Control Sample (LCS) 11/20/2014, 2:31:39 PM Rack S, Tube 2

Weight: 1 Volume: 1 Dilution: 1

Label	Replicates Concentration		
Ag 328.068	1002.93	992.690	991.779
Al 308.215	9970.70	9945.32	9973.48
As 188.980	1011.75	992.978	1000.18
B 249.678	1003.95	1005.88	1009.09
Ba 389.178	9971.24	9946.26	9952.85
Be 313.042	994.908	994.502	994.475
Ca 370.602	9998	9964	9942
Cd 226.502	997.436	993.026	997.187
Co 228.615	995.954	994.652	994.831
Cr 267.716	9975.81	9943.94	9956.69
Cu 324.754	10111.7	9972.05	9951.46
Fe 271.441	9951.95	9916.55	9946.96
K 766.491	19887.5	19884.6	19938.2
Mg 279.078	9959.40	9922.01	9949.80
Mn 257.610	9975.48	9915.81	9987.35
Mo 202.032	996.561	993.124	995.187
Na 330.237	15326.9	15156.6	15180.4
Ni 231.604	4981.92	4973.07	4980.85
Pb 220.353	994.510	994.970	990.834
Sb 206.834	1993.11	1993.87	1990.68
Se 196.026	9948.66	9904.30	9951.68
Sn 189.925	9990.35	9926.37	9941.41
Sr 216.596	4989.79	4968.19	4987.28
Ti 334.941	996.575	994.114	995.622
Tl 190.794	9967.81	9944.98	9953.43
V 292.401	9969.86	9935.70	9930.02
Zn 206.200	5015.08	4974.67	4986.45

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	995.800	ppb	6.1935	0.6	81684.1	99.58003
Al 308.215	9963.16	ppb	15.5182	0.2	69417.0	99.63163

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	1001.64	ppb	9.4678	0.9	550.683	100.16350
B 249.678	1006.30	ppb	2.5966	0.3	16786.0	20.12609*
Ba 389.178	9956.78	ppb	12.9459	0.1	210909	99.56779
Be 313.042	994.628	ppb	0.2425	0.0	1816813	99.46281
Ca 370.602	9968	ppb	28.10	0.3	27179	99.67645
Cd 226.502	995.883	ppb	2.4773	0.2	41522.9	99.58829
Co 228.615	995.146	ppb	0.7059	0.1	11490.4	99.51458
Cr 267.716	9958.81	ppb	16.0395	0.2	536314	99.58811
Cu 324.754	10011.7	ppb	87.1906	0.9	681335	100.11742
Fe 271.441	9938.49	ppb	19.1600	0.2	16618.4	99.38486
K 766.491	19903.4	ppb	30.1448	0.2	828401	99.51723
Mg 279.078	9943.74	ppb	19.4200	0.2	27004.4	99.43736
Mn 257.610	9959.55	ppb	38.3382	0.4	2014357	99.59547
Mo 202.032	994.957	ppb	1.7303	0.2	6747.90	99.49570
Na 330.237	15221.3	ppb	92.1876	0.6	605.839	101.47541
Ni 231.604	4978.61	ppb	4.8288	0.1	15056.5	99.57227
Pb 220.353	993.438	ppb	2.2667	0.2	1628.84	99.34383
Sb 206.834	1992.55	ppb	1.6628	0.1	2821.11	99.62766
Se 196.026	9934.88	ppb	26.5287	0.3	4285.55	99.34881
Sn 189.925	9952.71	ppb	33.4516	0.3	7537.66	99.52713
Sr 216.596	4981.75	ppb	11.8136	0.2	63838.6	99.63505
Ti 334.941	995.437	ppb	1.2410	0.1	295583	99.54373
Tl 190.794	9955.41	ppb	11.5438	0.1	10516.0	99.55409
V 292.401	9945.19	ppb	21.5515	0.2	259769	99.45191
Zn 206.200	4992.07	ppb	20.7843	0.4	5559.06	99.84138

Initial Calib Verif (ICV) **11/20/2014, 2:35:54 PM** **Rack S, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	996.029	997.958	999.608
Al 308.215	998.631	995.281	996.140
As 188.980	1019.71	1018.90	1033.19
B 249.678	1017.31	1015.25	1018.34
Ba 389.178	1076.42	1069.35	1068.40
Be 313.042	1062.24x	1048.87x	1055.03x
Ca 370.602	1010	1012	1015
Cd 226.502	1064.50x	1057.35x	1058.03x
Co 228.615	1092.85	1096.37	1091.61
Cr 267.716	1059.66	1051.87	1053.42
Cu 324.754	1075.89	1076.18	1066.12
Fe 271.441	1003.55	1002.59	1012.45
K 766.491	10234.5	10123.8	10136.7
Mg 279.078	1008.53	1002.72	1010.95
Mn 257.610	1093.32	1085.44	1085.53
Mo 202.032	1026.88x	1024.50x	1022.44x
Na 330.237	9953.02	10148.3	10256.6
Ni 231.604	1067.50	1060.54	1062.53
Pb 220.353	1019.70	1007.26	1000.10
Sb 206.834	1065.15	1059.19	1059.40
Se 196.026	971.387	976.194	967.413
Sn 189.925	5037.95	4955.15	4970.32
Sr 216.596	5076.06	5042.86	5036.46
Ti 334.941	979.697	972.155	973.097

Label	Replicates Concentration		
Tl 190.794	1000.94	992.742	994.602
V 292.401	1038.85	1033.97	1036.52
Zn 206.200	1081.41	1071.70	1074.96

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	997.865b	ppb	1.7917	0.2	81787.8	99.78648
Al 308.215	996.684b	ppb	1.7400	0.2	7358.62	99.66842
As 188.980	1023.93b	ppb	8.0300	0.8	563.149	102.39333
B 249.678	1016.97b	ppb	1.5755	0.2	16969.6	101.69685
Ba 389.178	1071.39b	ppb	4.3827	0.4	22648.7	107.13866Q
Be 313.042	1055.38xb	ppb	6.6933	0.6	1927285	105.53780Q
Ca 370.602	1012b	ppb	2.686	0.3	3128	101.23895
Cd 226.502	1059.96xb	ppb	3.9455	0.4	44158.2	105.99591Q
Co 228.615	1093.61b	ppb	2.4668	0.2	12607.3	109.36105Q
Cr 267.716	1054.98b	ppb	4.1281	0.4	56837.5	105.49825Q
Cu 324.754	1072.73b	ppb	5.7278	0.5	73245.8	107.27299Q
Fe 271.441	1006.20b	ppb	5.4395	0.5	1816.75	100.61981
K 766.491	10165.0b	ppb	60.5241	0.6	423199	101.65012
Mg 279.078	1007.40b	ppb	4.2262	0.4	2757.08	100.73996
Mn 257.610	1088.10b	ppb	4.5218	0.4	220144	108.80974Q
Mo 202.032	1024.61xb	ppb	2.2204	0.2	6959.25	102.46053
Na 330.237	10119.3b	ppb	153.866	1.5	456.949	101.19319
Ni 231.604	1063.52b	ppb	3.5865	0.3	3210.18	106.35237Q
Pb 220.353	1009.02b	ppb	9.9197	1.0	1644.16	100.90209
Sb 206.834	1061.25b	ppb	3.3852	0.3	1440.30	106.12476Q
Se 196.026	971.665b	ppb	4.3972	0.5	418.201	97.16649
Sn 189.925	4987.81b	ppb	44.0843	0.9	3774.84	99.75613
Sr 216.596	5051.79b	ppb	21.2549	0.4	64835.9	101.03585
Ti 334.941	974.983b	ppb	4.1093	0.4	289493	97.49831
Tl 190.794	996.095b	ppb	4.2986	0.4	1043.41	99.60952
V 292.401	1036.44b	ppb	2.4431	0.2	26889.9	103.64445
Zn 206.200	1076.02b	ppb	4.9409	0.5	1201.68	107.60197Q

Initial Calib Blank (ICB) **11/20/2014, 2:40:09 PM** **Rack S, Tube 1**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1578	0.2883	-0.1657u
Al 308.215	-4.3905u	1.1323	2.4157
As 188.980	10.2722	5.4587	3.9373
B 249.678	19.9052	19.2003	17.8692
Ba 389.178	0.1699	-0.4511u	0.5277
Be 313.042	0.0299	0.0231	0.0357
Ca 370.602	-0.0075	-0.1661u	4.756
Cd 226.502	-0.0588u	0.0132	0.1253
Co 228.615	-0.4638u	0.1178	-0.1598u
Cr 267.716	0.0040	-0.0468u	0.1922
Cu 324.754	-0.1446u	-0.1247u	-0.1525u
Fe 271.441	1.0242	-1.4797u	5.3866
K 766.491	-0.0777u	0.8233	1.5407
Mg 279.078	-2.1661u	-5.5931u	2.0577
Mn 257.610	0.0785	0.1080	0.1791
Mo 202.032	0.8619	0.7941	0.7535
Na 330.237	-22.7581u	-128.957u	60.7861

Label	Replicates Concentration		
Ni 231.604	-0.9911u	0.0760	0.0733
Pb 220.353	-0.4911u	1.4646	2.6269
Sb 206.834	4.0940	1.2333	3.3677
Se 196.026	-4.7832u	0.3027	-0.5535u
Sn 189.925	0.0356	2.2839	-0.3830u
Sr 216.596	0.1841	0.5649	0.7958
Ti 334.941	0.1681	0.1685	0.2175
Tl 190.794	2.6066	-0.1963u	3.1782
V 292.401	-0.0558u	-0.2289u	-0.0929u
Zn 206.200	-0.8102u	-0.0483u	0.9399

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0935	ppb	0.2337	250.0	-15.3385	0.09349
Al 308.215	-0.2808	ppb	3.6165	1287.7	435.175	-0.28085
As 188.980	6.5561	ppb	3.3070	50.4	-3.4914	6.55607
B 249.678	18.9915	ppb	1.0339	5.4	374.159	18.99154
Ba 389.178	0.0822	ppb	0.4953	602.9	-54.2158	0.08215
Be 313.042	0.0296	ppb	0.0063	21.3	-237.928	0.02955
Ca 370.602	1.528	ppb	2.797	183.1	9.918	1.52760
Cd 226.502	0.0266	ppb	0.0928	348.8	18.2946	0.02660
Co 228.615	-0.1686	ppb	0.2909	172.5	-3.7929	-0.16860
Cr 267.716	0.0498	ppb	0.1259	252.7	37.5064	0.04981
Cu 324.754	-0.1406	ppb	0.0143	10.2	223.264	-0.14060
Fe 271.441	1.6437	ppb	3.4748	211.4	19.5377	1.64372
K 766.491	0.7621	ppb	0.8109	106.4	279.887	0.76209
Mg 279.078	-1.9005	ppb	3.8323	201.6	20.2853	-1.90051
Mn 257.610	0.1219	ppb	0.0517	42.5	106.063	0.12185
Mo 202.032	0.8032	ppb	0.0548	6.8	11.2170	0.80316
Na 330.237	-30.3098	ppb	95.0968	313.7	27.5631	-30.30978
Ni 231.604	-0.2806	ppb	0.6153	219.3	-5.8627	-0.28061
Pb 220.353	1.2001	ppb	1.5757	131.3	11.7815	1.20012
Sb 206.834	2.8983	ppb	1.4870	51.3	-0.6318	2.89834
Se 196.026	-1.6780	ppb	2.7230	162.3	-1.7945	-1.67802
Sn 189.925	0.6455	ppb	1.4342	222.2	-4.8595	0.64550
Sr 216.596	0.5149	ppb	0.3089	60.0	10.7635	0.51493
Ti 334.941	0.1847	ppb	0.0284	15.4	61.5686	0.18469
Tl 190.794	1.8629	ppb	1.8060	96.9	-7.4200	1.86286
V 292.401	-0.1259	ppb	0.0912	72.4	-12.2403	-0.12589
Zn 206.200	0.0272	ppb	0.8775	3231.3	1.4754	0.02716

CRI (CRI) **11/20/2014, 2:44:24 PM** **Rack S, Tube 4**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.6096	10.5511	10.7570
Al 308.215	202.079	201.711	200.078
As 188.980	27.0466	29.1697	17.4423
B 249.678	107.933	106.488	107.229
Ba 389.178	11.1409	10.3571	10.5944
Be 313.042	4.4136	4.4020	4.4140
Ca 370.602	530.3	528.3	527.0
Cd 226.502	5.2796	5.4107	5.2065
Co 228.615	10.3738	11.0148	10.4329
Cr 267.716	10.9163	11.0050	11.0906

Label	Replicates Concentration		
Cu 324.754	22.7513	21.7549	22.1221
Fe 271.441	56.1410	55.1467	50.8606
K 766.491	1038.30	1030.69	1037.85
Mg 279.078	519.398	512.587	518.855
Mn 257.610	11.6172	11.5615	11.7066
Mo 202.032	10.4939	10.5587	10.3118
Na 330.237	985.411	825.765	1092.99
Ni 231.604	44.7132	42.7800	44.0312
Pb 220.353	11.7010	13.2713	11.8394
Sb 206.834	20.3155	20.9389	23.6983
Se 196.026	18.2346	25.5850	20.1570
Sn 189.925	50.5896	52.6986	49.8212
Sr 216.596	10.5090	10.1500	10.4569
Ti 334.941	10.3446	10.2859	10.3502
Tl 190.794	23.7022	25.7179	30.4519
V 292.401	11.0066	10.9341	11.1372
Zn 206.200	22.9290	19.7707	20.7444

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	10.6392	ppb	0.1061	1.0	850.686	106.39226
Al 308.215	201.289	ppb	1.0651	0.5	1804.95	100.64462
As 188.980	24.5529	ppb	6.2487	25.5	6.5339	122.76443R
B 249.678	107.217	ppb	0.7227	0.7	1840.26	107.21656
Ba 389.178	10.6974	ppb	0.4019	3.8	171.779	106.97433
Be 313.042	4.4099	ppb	0.0068	0.2	7761.95	110.24655
Ca 370.602	528.5	ppb	1.631	0.3	1417	105.70692
Cd 226.502	5.2989	ppb	0.1035	2.0	238.046	105.97862
Co 228.615	10.6072	ppb	0.3543	3.3	120.473	106.07182
Cr 267.716	11.0040	ppb	0.0871	0.8	627.406	110.03970
Cu 324.754	22.2094	ppb	0.5039	2.3	1744.20	111.04715
Fe 271.441	54.0494	ppb	2.8060	5.2	107.364	108.09887
K 766.491	1035.62	ppb	4.2695	0.4	43338.6	103.56154
Mg 279.078	516.947	ppb	3.7852	0.7	1438.67	103.38934
Mn 257.610	11.6285	ppb	0.0732	0.6	2436.99	116.28460
Mo 202.032	10.4548	ppb	0.1280	1.2	76.7144	104.54804
Na 330.237	968.055	ppb	134.455	13.9	71.4731	96.80553
Ni 231.604	43.8415	ppb	0.9805	2.2	127.610	109.60372
Pb 220.353	12.2706	ppb	0.8694	7.1	29.7152	122.70583R
Sb 206.834	21.6509	ppb	1.8003	8.3	24.9188	108.25447
Se 196.026	21.3255	ppb	3.8120	17.9	8.1287	106.62758
Sn 189.925	51.0365	ppb	1.4899	2.9	33.3313	102.07294
Sr 216.596	10.3720	ppb	0.1940	1.9	136.217	103.71977
Ti 334.941	10.3269	ppb	0.0356	0.3	3073.80	103.26906
Tl 190.794	26.6240	ppb	3.4649	13.0	18.7226	106.49606
V 292.401	11.0260	ppb	0.1029	0.9	277.413	110.25952
Zn 206.200	21.1480	ppb	1.6173	7.6	25.0533	105.74020

CRI (CRI) **11/20/2014, 2:48:41 PM** **Rack S, Tube 4**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.5493	10.5369	10.4853
Al 308.215	201.530	199.655	201.314
As 188.980	20.8322	22.3277	27.5249

Label	Replicates Concentration		
B 249.678	104.869	105.148	105.114
Ba 389.178	10.1565	10.9603	10.5863
Be 313.042	4.3980	4.3962	4.3920
Ca 370.602	524.6	522.2	528.1
Cd 226.502	5.2574	5.4271	5.2173
Co 228.615	10.7097	10.5822	10.4090
Cr 267.716	10.9434	10.7232	10.7875
Cu 324.754	22.7563	22.1322	22.2643
Fe 271.441	59.4158	58.7667	50.0431
K 766.491	1036.58	1033.62	1030.65
Mg 279.078	514.422	515.291	512.762
Mn 257.610	11.5878	11.6139	11.6090
Mo 202.032	11.1423	10.7363	10.4734
Na 330.237	911.030	992.166	1093.86
Ni 231.604	42.7421	44.4172	43.1400
Pb 220.353	12.8272	11.7583	10.8515
Sb 206.834	23.5489	25.2193	22.7100
Se 196.026	15.2574	18.2636	21.7320
Sn 189.925	50.9013	53.4519	54.7129
Sr 216.596	9.8493	9.5269	10.3044
Ti 334.941	10.3075	10.2715	10.3102
Tl 190.794	24.4066	25.9512	28.8357
V 292.401	10.3612	10.6987	10.7538
Zn 206.200	22.5555	21.4016	23.8732

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	10.5238	ppb	0.0340	0.3	841.220	105.23813
Al 308.215	200.833	ppb	1.0257	0.5	1801.87	100.41666
As 188.980	23.5616	ppb	3.5129	14.9	5.9815	117.80796
B 249.678	105.044	ppb	0.1525	0.1	1804.17	105.04361
Ba 389.178	10.5677	ppb	0.4022	3.8	169.024	105.67706
Be 313.042	4.3954	ppb	0.0031	0.1	7735.55	109.88568
Ca 370.602	525.0	ppb	2.984	0.6	1408	104.99558
Cd 226.502	5.3006	ppb	0.1114	2.1	238.118	106.01164
Co 228.615	10.5669	ppb	0.1509	1.4	120.000	105.66946
Cr 267.716	10.8180	ppb	0.1132	1.0	617.392	108.18046
Cu 324.754	22.3843	ppb	0.3289	1.5	1756.11	111.92146
Fe 271.441	56.0752	ppb	5.2340	9.3	110.693	112.15038
K 766.491	1033.62	ppb	2.9650	0.3	43255.4	103.36159
Mg 279.078	514.158	ppb	1.2851	0.2	1431.05	102.83165
Mn 257.610	11.6036	ppb	0.0139	0.1	2431.93	116.03552
Mo 202.032	10.7840	ppb	0.3370	3.1	78.9487	107.83984
Na 330.237	999.020	ppb	91.6098	9.2	72.8159	99.90202
Ni 231.604	43.4331	ppb	0.8752	2.0	126.375	108.58276
Pb 220.353	11.8124	ppb	0.9889	8.4	28.9720	118.12354
Sb 206.834	23.8260	ppb	1.2774	5.4	27.8781	119.13019
Se 196.026	18.4177	ppb	3.2401	17.6	6.8747	92.08836
Sn 189.925	53.0220	ppb	1.9418	3.7	34.8361	106.04402
Sr 216.596	9.8935	ppb	0.3906	3.9	130.087	98.93517
Ti 334.941	10.2964	ppb	0.0216	0.2	3064.74	102.96395
Tl 190.794	26.3979	ppb	2.2481	8.5	18.4827	105.59140
V 292.401	10.6046	ppb	0.2126	2.0	266.338	106.04613
Zn 206.200	22.6101	ppb	1.2367	5.5	26.6874	113.05035

Interf Check A (ICSA) **11/20/2014, 2:52:58 PM** **Rack S, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2063u	0.0355u	-0.0101u
Al 308.215	539687	540402	540667
As 188.980	4.2784	5.1976	8.6871
B 249.678	6.0166u	6.5189u	4.7464u
Ba 389.178	-3.1679	-2.0680	-2.3783
Be 313.042	-0.1562u	-0.1519u	-0.1504u
Ca 370.602	506774	506192	504208
Cd 226.502	2.1654	2.2136	2.6617
Co 228.615	-0.9012	-0.5483	0.9018
Cr 267.716	0.5989	0.5135	0.2014
Cu 324.754	1.6334	1.4964	1.5716
Fe 271.441	189211	189265	189355
K 766.491	2.9391	2.8031	2.4117
Mg 279.078	519643	519680	520454
Mn 257.610	3.7919	3.6032	3.7325
Mo 202.032	1.8547	2.0637	0.6337u
Na 330.237	-284.061u	-567.838u	-44.2684u
Ni 231.604	0.9977	0.9220	2.1708
Pb 220.353	5.7752	6.3118	5.9784
Sb 206.834	7.5202	5.5693	-0.4151
Se 196.026	10.1993	-8.6159u	-1.5512
Sn 189.925	-6.9962u	-6.0429u	2.2757
Sr 216.596	2.4854	2.6351	3.3434
Ti 334.941	0.8298	0.8123	0.8839
Tl 190.794	-12.4181u	0.7844u	-4.9623u
V 292.401	-0.6073u	0.3325u	0.2048u
Zn 206.200	8.1292	7.2342	7.4395

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0603	ppb	0.1285	213.0	-66.8984	-0.06030
Al 308.215	540252	ppb	507.248	0.1	3667409	-
As 188.980	6.0544	ppb	2.3259	38.4	-4.8083	6.05440
B 249.678	5.7607	ppb	0.9136	15.9	-281.858	5.76065
Ba 389.178	-2.5381	ppb	0.5671	22.3	1049.12	-2.53807
Be 313.042	-0.1528	ppb	0.0030	2.0	-374.692	-0.15284
Ca 370.602	505725	ppb	1345	0.3	1344876	-
Cd 226.502	2.3469	ppb	0.2737	11.7	812.265	2.34689
Co 228.615	-0.1825	ppb	0.9555	523.4	9.0368	-0.18255
Cr 267.716	0.4379	ppb	0.2093	47.8	154.341	0.43794
Cu 324.754	1.5671	ppb	0.0686	4.4	415.396	1.56711
Fe 271.441	189277	ppb	72.6608	0.0	312232	-
K 766.491	2.7180	ppb	0.2738	10.1	361.268	2.71796
Mg 279.078	519926	ppb	457.545	0.1	1421471	-
Mn 257.610	3.7092	ppb	0.0965	2.6	5071.96	3.70918
Mo 202.032	1.5174	ppb	0.7724	50.9	7.2140	1.51739
Na 330.237	-298.723	ppb	262.093	87.7	-25.8572	-298.72272
Ni 231.604	1.3635	ppb	0.7002	51.4	15.1093	1.36349
Pb 220.353	6.0218	ppb	0.2709	4.5	24.8854	6.02182
Sb 206.834	4.2248	ppb	4.1350	97.9	4.5075	4.22483
Se 196.026	0.0107	ppb	9.5044	88536.2	0.5450	0.01074
Sn 189.925	-3.5878	ppb	5.1002	142.2	-8.0684	-3.58779
Sr 216.596	2.8213	ppb	0.4583	16.2	503.292	2.82129

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	0.8420	ppb	0.0373	4.4	1240.65	0.84200
Tl 190.794	-5.5320	ppb	6.6197	119.7	-43.6947	-5.53200
V 292.401	-0.0233	ppb	0.5097	2186.4	-75.3630	-0.02331
Zn 206.200	7.6009	ppb	0.4688	6.2	3.0684	7.60095

Interf Check AB (ICSAB) **11/20/2014, 2:58:36 PM** **Rack S, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	222.005	222.099	223.710
Al 308.215	547181	548642	546165
As 188.980	108.371	122.730	111.402
B 249.678	1.4894u	1.2968u	1.0004u
Ba 389.178	532.938	534.311	533.663
Be 313.042	511.957	510.584	509.652
Ca 370.602	499002	500723	500225
Cd 226.502	998.289	1002.68	998.459
Co 228.615	506.366	507.435	504.221
Cr 267.716	516.453	517.756	515.542
Cu 324.754	599.834	601.152	593.510
Fe 271.441	190136	190631	190132
K 766.491	0.3023	0.8071	0.6070
Mg 279.078	524231	524647	523533
Mn 257.610	541.590	541.743	539.139
Mo 202.032	1025.54	1025.58	1024.15
Na 330.237	-366.612u	-372.293u	-617.796u
Ni 231.604	984.880	989.876	990.204
Pb 220.353	56.6759	56.4114	51.7236
Sb 206.834	661.033	657.476	668.973
Se 196.026	48.5000	44.2958	53.6800
Sn 189.925	1017.06	1018.90	1017.78
Sr 216.596	-12.2601	-11.6167	-12.6304
Ti 334.941	2.5849	2.6546	2.5452
Tl 190.794	83.6108	96.4723	90.5135
V 292.401	494.160	496.230	495.400
Zn 206.200	988.651	994.300	991.922

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	222.605	ppb	0.9584	0.4	18228.1	111.30232
Al 308.215	547329	ppb	1245.46	0.2	3715532	109.46585
As 188.980	114.168	ppb	7.5688	6.6	55.1773	114.16777
B 249.678	1.2622	ppb	0.2463	19.5	-351.343	-
Ba 389.178	533.637	ppb	0.6868	0.1	12422.6	106.72742
Be 313.042	510.731	ppb	1.1592	0.2	932642	102.14619
Ca 370.602	499983	ppb	885.3	0.2	1329586	99.99666
Cd 226.502	999.809	ppb	2.4860	0.2	42355.2	99.98087
Co 228.615	506.007	ppb	1.6366	0.3	5821.51	101.20147
Cr 267.716	516.584	ppb	1.1126	0.2	27939.4	103.31673
Cu 324.754	598.165	ppb	4.0849	0.7	41040.2	119.63308
Fe 271.441	190300	ppb	287.256	0.2	313984	95.14975
K 766.491	0.5722	ppb	0.2542	44.4	271.984	-
Mg 279.078	524137	ppb	563.141	0.1	1432972	104.82739
Mn 257.610	540.824	ppb	1.4615	0.3	113732	108.16477
Mo 202.032	1025.09	ppb	0.8136	0.1	6954.25	102.50913

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	-452.233	ppb	143.409	31.7	-52.1691	-
Ni 231.604	988.320	ppb	2.9836	0.3	3000.14	98.83201
Pb 220.353	54.9370	ppb	2.7860	5.1	102.947	109.87394
Sb 206.834	662.494	ppb	5.8861	0.9	891.737	110.41560
Se 196.026	48.8252	ppb	4.7005	9.6	21.7272	97.65050
Sn 189.925	1017.92	ppb	0.9268	0.1	766.114	101.79161
Sr 216.596	-12.1691	ppb	0.5129	4.2	271.899	-
Ti 334.941	2.5949	ppb	0.0554	2.1	1769.69	-
Tl 190.794	90.1988	ppb	6.4365	7.1	56.0478	90.19884
V 292.401	495.263	ppb	1.0417	0.2	12670.2	99.05263
Zn 206.200	991.624	ppb	2.8364	0.3	1101.59	99.16245

LRA1 (Samp) **11/20/2014, 3:02:54 PM** **Rack S, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.5369	-0.7890	-0.6758
Al 308.215	69.7305	73.7015	79.4628
As 188.980	21680.4x	21614.7x	21747.7x
B 249.678	5195.14x	5221.26x	5248.38x
Ba 389.178	0.7199	-0.2288u	-0.4609u
Be 313.042	0.1091	0.1162	0.1223
Ca 370.602	446.1	458.0	469.0
Cd 226.502	-1.9306u	-1.8787u	-1.8824u
Co 228.615	10995.6	11036.1	11037.4
Cr 267.716	-0.4036	-0.3913	-0.3431
Cu 324.754	-4.9220u	-4.2119u	-4.9844u
Fe 271.441	19.8062	22.7033	14.5099
K 766.491	0.9253	1.1629	1.4374
Mg 279.078	41.0476u	46.9430u	55.3805u
Mn 257.610	30152.3x	30221.7x	29868.2x
Mo 202.032	0.4489	0.6150	0.1295
Na 330.237	-92.8717u	131.052	170.717
Ni 231.604	11071.6x	11148.0x	11039.6x
Pb 220.353	21209.0x	21173.0x	21159.4x
Sb 206.834	8.3819	1.9844	8.0698
Se 196.026	-1.0703	-7.9516	-13.0909
Sn 189.925	-2.7630u	0.1170	1.5865
Sr 216.596	4.0949u	2.9332u	3.3557u
Ti 334.941	28421.1x	28474.6x	28459.0x
Tl 190.794	12.0007	9.1257	13.2444
V 292.401	-3.6708	-3.9804	-4.0486
Zn 206.200	0.1583	-0.3372u	3.1909

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6672b	ppb	0.1263	18.9	73.1451
Al 308.215	74.2982b	ppb	4.8935	6.6	868.119
As 188.980	21680.9xb	ppb	66.5405	0.3	12073.7
B 249.678	5221.59xb	ppb	26.6239	0.5	86819.4
Ba 389.178	0.0101b	ppb	0.6256	6213.6	-55.5240
Be 313.042	0.1159b	ppb	0.0066	5.7	-97.2149
Ca 370.602	457.7b	ppb	11.46	2.5	13728
Cd 226.502	-1.8972b	ppb	0.0290	1.5	-106.283
Co 228.615	11023.0b	ppb	23.7618	0.2	127789

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	-0.3794b	ppb	0.0320	8.4	221.187
Cu 324.754	-4.7061b	ppb	0.4291	9.1	-87.4737
Fe 271.441	19.0064b	ppb	4.1548	21.9	1362.56
K 766.491	1.1752b	ppb	0.2563	21.8	297.076
Mg 279.078	47.7904b	ppb	7.2039	15.1	-465.545
Mn 257.610	30080.7xb	ppb	187.288	0.6	6083479
Mo 202.032	0.3978b	ppb	0.2468	62.0	8.4165
Na 330.237	69.6326b	ppb	142.123	204.1	30.8084
Ni 231.604	11086.4xb	ppb	55.7223	0.5	33510.8
Pb 220.353	21180.5xb	ppb	25.6082	0.1	34331.2
Sb 206.834	6.1454b	ppb	3.6069	58.7	3.8430
Se 196.026	-7.3709b	ppb	6.0313	81.8	2.2075
Sn 189.925	-0.3532b	ppb	2.2125	626.5	-5.6171
Sr 216.596	3.4613b	ppb	0.5880	17.0	-273.739
Ti 334.941	28451.6xb	ppb	27.5115	0.1	8447647
Tl 190.794	11.4569b	ppb	2.1125	18.4	46.8321
V 292.401	-3.8999b	ppb	0.2013	5.2	94.4885
Zn 206.200	1.0040b	ppb	1.9101	190.2	2.5339

LRA2 (Samp) **11/20/2014, 3:07:12 PM** **Rack S, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.8729u	0.9780u	1.7099u
Al 308.215	854376	891416x	893334x
As 188.980	117.328	86.2871	83.5894
B 249.678	93.3429u	80.5121u	69.9456u
Ba 389.178	3.6122	3.9510	0.8775
Be 313.042	-0.2285u	-0.2256u	-0.2193u
Ca 370.602	813654	811703	811218
Cd 226.502	18.1397	18.1905	18.4083
Co 228.615	-10.5848u	-11.6430u	-12.1808u
Cr 267.716	-5.6699	-5.9483	-6.6393
Cu 324.754	1.3270	1.7006	0.7712
Fe 271.441	949906	952694	946781
K 766.491	19.9291	19.8499	19.4847
Mg 279.078	834184	834028	830618
Mn 257.610	7.2684	7.0447	6.7458
Mo 202.032	6.5546u	3.1432u	3.5904u
Na 330.237	-351.208u	-499.119u	-516.501u
Ni 231.604	3.5995	2.8177	2.1289
Pb 220.353	0.2197	7.4454	10.0985
Sb 206.834	10.6492	9.1052	-4.0911
Se 196.026	5.0987	-0.9352	4.0907
Sn 189.925	0.6874	7.3978	-3.3238u
Sr 216.596	-11.5270	-10.2132	-11.7965
Ti 334.941	5.4495	4.9677	4.6522
Tl 190.794	-14.3194u	-23.9798u	-18.3223u
V 292.401	-2.3827u	-2.2784u	-1.9449u
Zn 206.200	5.5305u	6.4607u	3.3099u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.1869b	ppb	0.4559	38.4	-96.6015
Al 308.215	879709xb	ppb	21959.4	2.5	5971546

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	95.7347b	ppb	18.7487	19.6	40.9652
B 249.678	81.2669b	ppb	11.7169	14.4	-791.815
Ba 389.178	2.8136b	ppb	1.6852	59.9	2335.58
Be 313.042	-0.2245b	ppb	0.0047	2.1	-405.829
Ca 370.602	812192b	ppb	1290	0.2	2153568
Cd 226.502	18.2462b	ppb	0.1427	0.8	4270.85
Co 228.615	-11.4695b	ppb	0.8120	7.1	-68.8414
Cr 267.716	-6.0858b	ppb	0.4991	8.2	170.820
Cu 324.754	1.2663b	ppb	0.4677	36.9	702.213
Fe 271.441	949794b	ppb	2958.29	0.3	1566715
K 766.491	19.7546b	ppb	0.2370	1.2	1070.14
Mg 279.078	832943b	ppb	2015.57	0.2	2277235
Mn 257.610	7.0197b	ppb	0.2622	3.7	10109.3
Mo 202.032	4.4294b	ppb	1.8540	41.9	-8.8301
Na 330.237	-455.609b	ppb	90.8313	19.9	-200.063
Ni 231.604	2.8487b	ppb	0.7358	25.8	83.5833
Pb 220.353	5.9212b	ppb	5.1128	86.3	72.3417
Sb 206.834	5.2211b	ppb	8.1015	155.2	19.2566
Se 196.026	2.7514b	ppb	3.2322	117.5	8.2300
Sn 189.925	1.5871b	ppb	5.4171	341.3	-4.1481
Sr 216.596	-11.1789b	ppb	0.8471	7.6	1508.77
Ti 334.941	5.0232b	ppb	0.4015	8.0	3154.06
Tl 190.794	-18.8738b	ppb	4.8538	25.7	-173.040
V 292.401	-2.2020b	ppb	0.2287	10.4	-406.723
Zn 206.200	5.1004b	ppb	1.6189	31.7	-27.5089

LRA3 (Samp) **11/20/2014, 3:11:31 PM** **Rack S, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.7743	0.6459	0.6748
Al 308.215	390.547	400.662	423.511
As 188.980	22.7480	15.5785	8.3361
B 249.678	20.8234	19.0403	18.0728
Ba 389.178	0.9184	0.1945	0.2598
Be 313.042	0.0516	0.0536	0.0628
Ca 370.602	490.7	499.4	521.8
Cd 226.502	0.2878	0.1227	0.3429
Co 228.615	0.4581	0.5386	0.8267
Cr 267.716	0.1910	0.4117	0.4445
Cu 324.754	0.8033	0.9012	1.0440
Fe 271.441	627.895	643.448	659.732
K 766.491	42443.7x	42291.5x	42598.3x
Mg 279.078	440.315	450.731	477.835
Mn 257.610	2.1644	2.2750	2.4321
Mo 202.032	0.7155	1.2879	0.5333
Na 330.237	109593x	109246x	110298x
Ni 231.604	0.4316	0.5135	0.1853
Pb 220.353	1.8025	0.5669	4.4142
Sb 206.834	-0.2405u	2.5347	0.5369
Se 196.026	-1.9906u	0.9004	7.3824
Sn 189.925	0.9638	-1.2783u	3.3364
Sr 216.596	0.5366	0.3239	0.1458
Ti 334.941	2.8648	2.8389	2.8376

Label	Replicates Concentration		
Tl 190.794	-1.5313u	-0.4511u	5.3643
V 292.401	-0.0825u	-0.0954u	-0.3181u
Zn 206.200	31478.1x	31349.7x	31714.8x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.6983b	ppb	0.0674	9.6	34.2402
Al 308.215	404.907b	ppb	16.8868	4.2	3185.44
As 188.980	15.5542b	ppb	7.2060	46.3	1.5189
B 249.678	19.3121b	ppb	1.3953	7.2	378.096
Ba 389.178	0.4576b	ppb	0.4004	87.5	-44.8900
Be 313.042	0.0560b	ppb	0.0059	10.6	-200.779
Ca 370.602	504.0b	ppb	16.07	3.2	1343
Cd 226.502	0.2512b	ppb	0.1146	45.6	29.3848
Co 228.615	0.6078b	ppb	0.1938	31.9	5.2913
Cr 267.716	0.3491b	ppb	0.1379	39.5	55.3428
Cu 324.754	0.9162b	ppb	0.1211	13.2	295.434
Fe 271.441	643.692b	ppb	15.9197	2.5	1078.68
K 766.491	42444.5xb	ppb	153.388	0.4	1766300
Mg 279.078	456.294b	ppb	19.3686	4.2	1272.94
Mn 257.610	2.2905b	ppb	0.1345	5.9	549.243
Mo 202.032	0.8456b	ppb	0.3937	46.6	11.4746
Na 330.237	109713xb	ppb	536.139	0.5	4285.19
Ni 231.604	0.3768b	ppb	0.1708	45.3	-3.7864
Pb 220.353	2.2612b	ppb	1.9642	86.9	13.5391
Sb 206.834	0.9437b	ppb	1.4317	151.7	-3.2831
Se 196.026	2.0974b	ppb	4.7997	228.8	-0.1603
Sn 189.925	1.0073b	ppb	2.3077	229.1	-4.5528
Sr 216.596	0.3354b	ppb	0.1956	58.3	9.5396
Ti 334.941	2.8471b	ppb	0.0153	0.5	844.698
Tl 190.794	1.1273b	ppb	3.7089	329.0	-8.2918
V 292.401	-0.1654b	ppb	0.1325	80.1	-14.2881
Zn 206.200	31514.2xb	ppb	185.201	0.6	35218.9

Cont Calib Verif (CCV) **11/20/2014, 3:15:47 PM** **Rack 1, Tube 1**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	506.233	498.799	499.967
Al 308.215	4903.40	4897.81	4896.00
As 188.980	512.203	503.527	515.927
B 249.678	504.276	505.931	508.281
Ba 389.178	5224.99	5226.97	5226.74
Be 313.042	523.640	522.223	523.809
Ca 370.602	4996	5005	5001
Cd 226.502	531.055	528.360	529.748
Co 228.615	533.243	532.425	531.438
Cr 267.716	5251.68	5236.64	5238.94
Cu 324.754	5435.07	5346.08	5296.18
Fe 271.441	4971.17	4952.04	4959.70
K 766.491	10258.5	10225.7	10241.5
Mg 279.078	5002.94	4993.96	4987.76
Mn 257.610	5343.83	5306.60	5326.15
Mo 202.032	499.314	497.008	497.525
Na 330.237	7584.88	7444.96	7691.46

Label	Replicates Concentration		
Ni 231.604	2664.12	2618.30	2632.83
Pb 220.353	503.007	504.362	508.013
Sb 206.834	996.359	995.418	994.898
Se 196.026	4989.58	4960.87	4969.68
Sn 189.925	4971.65	4973.69	4954.35
Sr 216.596	2481.23	2493.06	2475.48
Ti 334.941	496.337	495.110	495.504
Tl 190.794	5087.57	5066.60	5071.16
V 292.401	4957.95	4955.83	4958.05
Zn 206.200	2647.32	2650.85	2655.24

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	501.667	ppb	3.9978	0.8	41141.9	100.33333
Al 308.215	4899.07	ppb	3.8547	0.1	34366.2	97.98140
As 188.980	510.552	ppb	6.3630	1.2	277.193	102.11047
B 249.678	506.163	ppb	2.0125	0.4	8472.34	101.23257
Ba 389.178	5226.24	ppb	1.0809	0.0	110677	104.52470
Be 313.042	523.224	ppb	0.8712	0.2	955585	104.64484
Ca 370.602	5001	ppb	4.727	0.1	13645	100.01762
Cd 226.502	529.721	ppb	1.3474	0.3	22093.4	105.94421
Co 228.615	532.369	ppb	0.9041	0.2	6146.26	106.47373
Cr 267.716	5242.42	ppb	8.1012	0.2	282341	104.84840
Cu 324.754	5359.11	ppb	70.3530	1.3	364818	107.18220
Fe 271.441	4960.97	ppb	9.6307	0.2	8308.48	99.21939
K 766.491	10241.9	ppb	16.3824	0.2	426398	102.41901
Mg 279.078	4994.88	ppb	7.6315	0.2	13570.9	99.89770
Mn 257.610	5325.53	ppb	18.6204	0.3	1077144	106.51057
Mo 202.032	497.949	ppb	1.2100	0.2	3380.03	99.58974
Na 330.237	7573.77	ppb	123.621	1.6	312.713	100.98354
Ni 231.604	2638.42	ppb	23.4190	0.9	7976.79	105.53668
Pb 220.353	505.127	ppb	2.5892	0.5	833.244	101.02545
Sb 206.834	995.558	ppb	0.7407	0.1	1410.47	99.55580
Se 196.026	4973.38	ppb	14.7112	0.3	2144.87	99.46751
Sn 189.925	4966.56	ppb	10.6241	0.2	3758.73	99.33123
Sr 216.596	2483.26	ppb	8.9639	0.4	31819.2	99.33023
Ti 334.941	495.650	ppb	0.6264	0.1	147181	99.13005
Tl 190.794	5075.11	ppb	11.0302	0.2	5356.36	101.50220
V 292.401	4957.28	ppb	1.2525	0.0	129468	99.14557
Zn 206.200	2651.14	ppb	3.9676	0.1	2953.04	106.04551

Cont Calib Blank (CCB) **11/20/2014, 3:20:02 PM** **Rack 1, Tube 2**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0052u	0.0973	-0.0585u
Al 308.215	3.4444	3.0936	4.1151
As 188.980	-1.6813u	7.6660	0.5340
B 249.678	13.0531	11.5529	10.3650
Ba 389.178	0.3529	0.4966	0.1968
Be 313.042	0.0072	0.0089	0.0094
Ca 370.602	6.462	5.801	10.74
Cd 226.502	-0.0055u	0.0075	0.0987
Co 228.615	0.4349	0.2068	0.2389
Cr 267.716	0.0932	-0.0485u	0.1352

Label	Replicates Concentration		
Cu 324.754	0.0787	-0.2330u	-0.2759u
Fe 271.441	5.8554	-3.5050u	-0.3277u
K 766.491	0.9900	1.2207	1.3389
Mg 279.078	-0.3182u	2.3165	2.0585
Mn 257.610	0.1215	0.1495	0.1821
Mo 202.032	0.6878	0.3115	0.1873
Na 330.237	4.2469	-53.4607u	174.042
Ni 231.604	0.3176	1.2508	-0.0429u
Pb 220.353	3.3000	4.6444	1.8470
Sb 206.834	5.2227	5.8351	4.1467
Se 196.026	0.4450	-6.3084u	-4.1835u
Sn 189.925	-0.5797u	-2.4699u	1.2575
Sr 216.596	0.3579	0.2180	0.1601
Ti 334.941	0.2061	0.6587	0.4713
Tl 190.794	1.5123	4.6696	3.6002
V 292.401	0.0818	0.2800	0.3143
Zn 206.200	0.2318	-0.9153u	0.2680

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0112	ppb	0.0792	706.7	-22.0889	0.01120
Al 308.215	3.5510	ppb	0.5190	14.6	461.185	3.55103
As 188.980	2.1729	ppb	4.8844	224.8	-5.9337	2.17288
B 249.678	11.6570	ppb	1.3471	11.6	252.286	11.65704
Ba 389.178	0.3488	ppb	0.1500	43.0	-48.5607	0.34877
Be 313.042	0.0085	ppb	0.0012	13.6	-276.309	0.00852
Ca 370.602	7.666	ppb	2.679	34.9	26.34	7.66637
Cd 226.502	0.0336	ppb	0.0568	169.1	18.5940	0.03356
Co 228.615	0.2935	ppb	0.1235	42.1	1.5530	0.29352
Cr 267.716	0.0599	ppb	0.0963	160.6	38.0547	0.05994
Cu 324.754	-0.1434	ppb	0.1936	135.0	223.064	-0.14339
Fe 271.441	0.6742	ppb	4.7599	706.0	17.9806	0.67425
K 766.491	1.1832	ppb	0.1774	15.0	297.409	1.18321
Mg 279.078	1.3522	ppb	1.4524	107.4	29.1773	1.35225
Mn 257.610	0.1510	ppb	0.0303	20.1	111.996	0.15104
Mo 202.032	0.3955	ppb	0.2606	65.9	8.4497	0.39550
Na 330.237	41.6094	ppb	118.264	284.2	30.7822	41.60943
Ni 231.604	0.5085	ppb	0.6676	131.3	-3.4757	0.50854
Pb 220.353	3.2638	ppb	1.3990	42.9	15.1270	3.26378
Sb 206.834	5.0681	ppb	0.8547	16.9	2.3310	5.06814
Se 196.026	-3.3490	ppb	3.4532	103.1	-2.5150	-3.34896
Sn 189.925	-0.5973	ppb	1.8638	312.0	-5.8014	-0.59734
Sr 216.596	0.2453	ppb	0.1017	41.4	7.2861	0.24533
Ti 334.941	0.4454	ppb	0.2274	51.1	138.975	0.44539
Tl 190.794	3.2607	ppb	1.6058	49.2	-5.9432	3.26069
V 292.401	0.2254	ppb	0.1255	55.7	-2.9903	0.22536
Zn 206.200	-0.1385	ppb	0.6730	485.9	1.2901	-0.13850

680-107113-a-4-b^10 (Samp) **11/20/2014, 3:24:17 PM** **Rack 1, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3423u	-0.4259u	-0.2037
Al 308.215	2336.81	2325.78	2336.51
As 188.980	1.8652	8.0442	-1.2899u

Label	Replicates Concentration		
B 249.678	4.7313	4.5734	4.9646
Ba 389.178	-1.4416u	-0.8482u	-0.6680u
Be 313.042	0.2511	0.2454	0.2620
Ca 370.602	4214	4199	4199
Cd 226.502	3.4502	3.3748	3.4527
Co 228.615	30.7384	30.2187	30.9955
Cr 267.716	0.1421	0.1415	0.1579
Cu 324.754	38.4141	38.7124	38.9338
Fe 271.441	65.4635	63.0024	66.4861
K 766.491	284.254	283.524	284.790
Mg 279.078	6903.56	6890.82	6928.72
Mn 257.610	3500.19	3481.46	3510.61
Mo 202.032	0.5186	0.2009	0.3486
Na 330.237	1444.24	1552.04	1516.75
Ni 231.604	816.829	813.685	815.978
Pb 220.353	-0.3785	1.5293	1.1719
Sb 206.834	5.0168	0.3254	2.3370
Se 196.026	-3.6503u	-3.0005u	-4.4132u
Sn 189.925	0.6838	-0.0689u	-1.4677u
Sr 216.596	12.9289	12.3999	12.4494
Ti 334.941	0.1262	0.1159	0.1213
Tl 190.794	3.0080	2.3610	2.7138
V 292.401	-0.2834u	-0.1890u	-0.2232u
Zn 206.200	1587.97	1590.45	1596.80

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3240	ppb	0.1122	34.6	-32.5803
Al 308.215	2333.03	ppb	6.2837	0.3	16272.2
As 188.980	2.8731	ppb	4.7480	165.3	-5.5438
B 249.678	4.7564	ppb	0.1968	4.1	137.479
Ba 389.178	-0.9859	ppb	0.4047	41.1	-63.2701
Be 313.042	0.2528	ppb	0.0084	3.3	170.380
Ca 370.602	4204	ppb	8.673	0.2	11283
Cd 226.502	3.4259	ppb	0.0443	1.3	160.182
Co 228.615	30.6509	ppb	0.3957	1.3	351.808
Cr 267.716	0.1472	ppb	0.0093	6.3	59.6726
Cu 324.754	38.6868	ppb	0.2608	0.7	2865.08
Fe 271.441	64.9840	ppb	1.7906	2.8	127.653
K 766.491	284.189	ppb	0.6355	0.2	12072.9
Mg 279.078	6907.70	ppb	19.2903	0.3	18840.1
Mn 257.610	3497.42	ppb	14.7727	0.4	707434
Mo 202.032	0.3560	ppb	0.1589	44.6	8.1792
Na 330.237	1504.34	ppb	54.9633	3.7	64.6502
Ni 231.604	815.497	ppb	1.6263	0.2	2462.25
Pb 220.353	0.7742	ppb	1.0142	131.0	11.7884
Sb 206.834	2.5597	ppb	2.3536	91.9	-1.0818
Se 196.026	-3.6880	ppb	0.7071	19.2	-1.9084
Sn 189.925	-0.2843	ppb	1.0918	384.1	-5.5638
Sr 216.596	12.5927	ppb	0.2922	2.3	143.828
Ti 334.941	0.1211	ppb	0.0051	4.2	55.0982
Tl 190.794	2.6943	ppb	0.3239	12.0	-4.7544
V 292.401	-0.2319	ppb	0.0478	20.6	-14.9247
Zn 206.200	1591.74	ppb	4.5548	0.3	1780.23

680-107155-a-1-a^10 (Samp) **11/20/2014, 3:28:32 PM** **Rack 1, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0591u	-0.0259u	-0.1043u
Al 308.215	4.3991	4.9573	6.7313
As 188.980	32.6426	24.5687	26.7375
B 249.678	10.4530	10.4521	10.2946
Ba 389.178	244.124	238.663	231.777
Be 313.042	-0.0251u	-0.0234u	-0.0205u
Ca 370.602	73542	72200	70358
Cd 226.502	0.0381	0.0437	-0.0930
Co 228.615	-0.2196u	-0.3242u	0.0811
Cr 267.716	0.1001	0.0356	0.1249
Cu 324.754	-0.0022	-0.1501u	-0.4126u
Fe 271.441	4597.81	4497.26	4373.16
K 766.491	548.719	534.112	518.837
Mg 279.078	55019.2	53838.8	52364.0
Mn 257.610	47.9727	46.8406	45.4951
Mo 202.032	0.8510	0.3226	0.8494
Na 330.237	22256.9	21725.9	20901.8
Ni 231.604	1.6062	2.5541	1.9504
Pb 220.353	6.3158	0.5448	4.0870
Sb 206.834	0.6306	-1.4640u	1.3402
Se 196.026	-8.2153u	-6.7600u	0.2669
Sn 189.925	2.9066	2.7164	-0.6555u
Sr 216.596	322.627	314.929	306.400
Ti 334.941	-0.1013	-0.0948	-0.0884
Tl 190.794	0.3714u	0.0949u	-0.3457u
V 292.401	-0.4313u	-0.1889u	-0.5037u
Zn 206.200	3.4043	1.5040	2.9278

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0237	ppb	0.0817	345.2	-37.0264
Al 308.215	5.3626	ppb	1.2177	22.7	473.960
As 188.980	27.9829	ppb	4.1785	14.9	8.4232
B 249.678	10.3999	ppb	0.0912	0.9	220.975
Ba 389.178	238.188	ppb	6.1871	2.6	5098.44
Be 313.042	-0.0230	ppb	0.0023	10.2	-313.611
Ca 370.602	72033	ppb	1599	2.2	191781
Cd 226.502	-0.0037	ppb	0.0774	2076.7	34.1044
Co 228.615	-0.1542	ppb	0.2104	136.4	-3.3189
Cr 267.716	0.0869	ppb	0.0461	53.1	42.3034
Cu 324.754	-0.1883	ppb	0.2079	110.4	221.829
Fe 271.441	4489.41	ppb	112.535	2.5	7422.17
K 766.491	533.889	ppb	14.9422	2.8	22462.5
Mg 279.078	53740.7	ppb	1330.32	2.5	146969
Mn 257.610	46.7695	ppb	1.2403	2.7	9936.67
Mo 202.032	0.6743	ppb	0.3046	45.2	10.1317
Na 330.237	21628.2	ppb	682.822	3.2	987.942
Ni 231.604	2.0369	ppb	0.4798	23.6	1.5252
Pb 220.353	3.6492	ppb	2.9103	79.8	16.0711
Sb 206.834	0.1689	ppb	1.4580	863.1	-4.2712
Se 196.026	-4.9028	ppb	4.5359	92.5	-3.1364
Sn 189.925	1.6558	ppb	2.0040	121.0	-4.0870
Sr 216.596	314.652	ppb	8.1167	2.6	4080.01

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	-0.0948	ppb	0.0065	6.8	73.9022
Tl 190.794	0.0402	ppb	0.3617	900.3	-9.9990
V 292.401	-0.3746	ppb	0.1649	44.0	-19.9130
Zn 206.200	2.6121	ppb	0.9887	37.9	4.2001

680-107155-a-4-a^10 (Samp) **11/20/2014, 3:32:47 PM** **Rack 1, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3058u	0.0843u	0.0232u
Al 308.215	12.9464	12.8468	12.2790
As 188.980	2.7573	10.3471	12.7532
B 249.678	6.0804	5.1723	4.5935
Ba 389.178	27.8158	28.0901	27.7998
Be 313.042	-0.0606u	-0.0703u	-0.0644u
Ca 370.602	342266	335474	323333
Cd 226.502	0.0743	0.0263	-0.0403
Co 228.615	-0.3111u	0.2862	-0.2577u
Cr 267.716	-0.1982	-0.2948u	-0.0730
Cu 324.754	-0.2746u	-0.6583u	-0.2885u
Fe 271.441	12392.5	12081.2	11798.8
K 766.491	1388.20	1349.77	1311.42
Mg 279.078	122473	119392	116194
Mn 257.610	94.9053	92.4516	89.8664
Mo 202.032	0.2260	-0.1261u	0.6598
Na 330.237	357741x	349117x	338278x
Ni 231.604	2.9837	4.1493	2.0142
Pb 220.353	2.9252	1.4366	0.4936
Sb 206.834	2.5703	-1.3263u	0.5864
Se 196.026	-0.9775u	11.4551	3.9129
Sn 189.925	-3.3809u	0.3086	1.6905
Sr 216.596	485.800	474.422	459.853
Ti 334.941	-0.1576	-0.1846	-0.1473
Tl 190.794	4.1518	-3.2415u	-3.1585u
V 292.401	-0.3970u	0.3686	-0.4784u
Zn 206.200	2.4490	1.1869	2.6480

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0661b	ppb	0.2098	317.2	-48.5936
Al 308.215	12.6907b	ppb	0.3600	2.8	524.632
As 188.980	8.6192b	ppb	5.2172	60.5	-2.4081
B 249.678	5.2821b	ppb	0.7495	14.2	118.394
Ba 389.178	27.9019b	ppb	0.1632	0.6	778.285
Be 313.042	-0.0651b	ppb	0.0049	7.5	-338.901
Ca 370.602	333691b	ppb	9592	2.9	888478
Cd 226.502	0.0201b	ppb	0.0576	286.0	61.7961
Co 228.615	-0.0942b	ppb	0.3305	350.9	-2.0899
Cr 267.716	-0.1887b	ppb	0.1112	58.9	37.6424
Cu 324.754	-0.4071b	ppb	0.2177	53.5	209.968
Fe 271.441	12090.8b	ppb	297.011	2.5	19960.8
K 766.491	1349.79b	ppb	38.3900	2.8	56411.1
Mg 279.078	119353b	ppb	3139.96	2.6	326374
Mn 257.610	92.4077b	ppb	2.5197	2.7	19656.8
Mo 202.032	0.2532b	ppb	0.3937	155.4	6.9166

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	348379xb	ppb	9752.68	2.8	15490.1
Ni 231.604	3.0491b	ppb	1.0691	35.1	5.2221
Pb 220.353	1.6184b	ppb	1.2260	75.7	13.3118
Sb 206.834	0.6101b	ppb	1.9484	319.3	-3.5318
Se 196.026	4.7968b	ppb	6.2633	130.6	1.1215
Sn 189.925	-0.4606b	ppb	2.6217	569.2	-5.5884
Sr 216.596	473.358b	ppb	13.0061	2.7	6233.04
Ti 334.941	-0.1632b	ppb	0.0193	11.8	146.040
Tl 190.794	-0.7494b	ppb	4.2448	566.4	-11.9518
V 292.401	-0.1690b	ppb	0.4673	276.6	-18.8175
Zn 206.200	2.0946b	ppb	0.7924	37.8	3.3460

680-107155-a-5-a^10 (Samp) **11/20/2014, 3:37:03 PM** **Rack 1, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1694	-0.0067u	-0.0644u
Al 308.215	8.9056	8.0551	7.1248
As 188.980	1.3841	3.0214	7.3551
B 249.678	7.7175	7.5219	7.2389
Ba 389.178	61.5832	59.1287	55.3140
Be 313.042	-0.0228u	-0.0129u	-0.0199u
Ca 370.602	97934	95266	91797
Cd 226.502	0.0294	0.2737	-0.0244
Co 228.615	-0.5769u	-0.5022u	-0.4083u
Cr 267.716	-0.0933	-0.1458	-0.0083
Cu 324.754	0.1668	0.1351	-0.0598u
Fe 271.441	1787.27	1748.45	1684.03
K 766.491	11623.1	11245.2	10850.4
Mg 279.078	69321.1	67504.3	65048.1
Mn 257.610	144.229	140.304	135.668
Mo 202.032	1.8870	0.6629	1.5176
Na 330.237	348233x	339604x	327640x
Ni 231.604	2.3751	3.0680	2.6800
Pb 220.353	0.7878	0.2028	3.8229
Sb 206.834	2.1947	3.8898	1.7600
Se 196.026	1.7137	-7.4493u	4.7128
Sn 189.925	-4.1345u	3.5338	-1.3507u
Sr 216.596	381.623	373.185	357.480
Ti 334.941	-0.1979	-0.1581	-0.2055
Tl 190.794	0.5428	-0.4575u	-0.5496u
V 292.401	-0.0886u	-0.1472u	-0.1615u
Zn 206.200	2.5793	0.5027	1.7264

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0328b	ppb	0.1218	371.8	-33.5733
Al 308.215	8.0285b	ppb	0.8907	11.1	491.842
As 188.980	3.9202b	ppb	3.0853	78.7	-4.9699
B 249.678	7.4928b	ppb	0.2406	3.2	179.083
Ba 389.178	58.6753b	ppb	3.1591	5.4	1320.42
Be 313.042	-0.0185b	ppb	0.0051	27.6	-332.939
Ca 370.602	94999b	ppb	3077	3.2	252965
Cd 226.502	0.0929b	ppb	0.1589	171.1	26.3266
Co 228.615	-0.4958b	ppb	0.0845	17.0	-7.4610

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	-0.0825b	ppb	0.0694	84.1	38.4525
Cu 324.754	0.0807b	ppb	0.1227	152.0	239.042
Fe 271.441	1739.92b	ppb	52.1459	3.0	2886.80
K 766.491	11239.6b	ppb	386.403	3.4	467909
Mg 279.078	67291.2b	ppb	2144.43	3.2	184019
Mn 257.610	140.067b	ppb	4.2855	3.1	28892.5
Mo 202.032	1.3559b	ppb	0.6279	46.3	14.8863
Na 330.237	338492xb	ppb	10341.7	3.1	15053.5
Ni 231.604	2.7077b	ppb	0.3473	12.8	3.3253
Pb 220.353	1.6045b	ppb	1.9433	121.1	12.5858
Sb 206.834	2.6149b	ppb	1.1253	43.0	-0.9999
Se 196.026	-0.3409b	ppb	6.3361	1858.6	-1.1724
Sn 189.925	-0.6505b	ppb	3.8818	596.8	-5.7355
Sr 216.596	370.763b	ppb	12.2525	3.3	4805.93
Ti 334.941	-0.1872b	ppb	0.0254	13.6	45.0965
Tl 190.794	-0.1548b	ppb	0.6058	391.4	-9.7455
V 292.401	-0.1325b	ppb	0.0386	29.2	-14.8747
Zn 206.200	1.6028b	ppb	1.0438	65.1	3.1728

680-107155-a-6-a^10 (Samp) **11/20/2014, 3:41:19 PM** **Rack 1, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1547u	-0.0277u	0.1223u
Al 308.215	13.9376	12.7541	22.0254
As 188.980	8.6672	13.2021	14.4458
B 249.678	3.8055	4.4402	4.6809
Ba 389.178	30.1233	29.3221	29.2911
Be 313.042	-0.0771u	-0.0788u	-0.0483u
Ca 370.602	354641	350922	347332
Cd 226.502	0.2750	0.1991	0.0797
Co 228.615	-0.3021u	-0.3442u	-0.8623u
Cr 267.716	-0.1339	-0.2445	0.0322
Cu 324.754	-0.2764u	-0.2838u	-0.2357u
Fe 271.441	12973.8	12820.8	12647.4
K 766.491	1481.75	1459.07	1432.07
Mg 279.078	128342	126872	125235
Mn 257.610	99.9656	98.5553	97.1518
Mo 202.032	0.7694	-0.5343u	0.4266
Na 330.237	378962x	373524x	367683x
Ni 231.604	1.4462	4.5825	1.5295
Pb 220.353	2.5962	2.3272	0.9480
Sb 206.834	-0.5738u	-0.7839u	-0.5737u
Se 196.026	0.3341	-4.3110u	4.3210
Sn 189.925	2.6338	-0.5888u	-0.8888u
Sr 216.596	507.244	503.191	496.595
Ti 334.941	-0.1485	-0.1884	-0.1182
Tl 190.794	0.1452u	-1.6627u	-2.0190u
V 292.401	0.2112u	-0.0973u	0.2110u
Zn 206.200	2.4215	2.4440	1.9793

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0201b	ppb	0.1386	691.3	-46.1395
Al 308.215	16.2390b	ppb	5.0460	31.1	548.794

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	12.1050b	ppb	3.0415	25.1	-0.4699
B 249.678	4.3088b	ppb	0.4522	10.5	100.494
Ba 389.178	29.5788b	ppb	0.4718	1.6	829.153
Be 313.042	-0.0681b	ppb	0.0172	25.3	-340.406
Ca 370.602	350965b	ppb	3655	1.0	934470
Cd 226.502	0.1846b	ppb	0.0985	53.3	71.3555
Co 228.615	-0.5029b	ppb	0.3120	62.0	-6.7538
Cr 267.716	-0.1154b	ppb	0.1393	120.7	42.4391
Cu 324.754	-0.2653b	ppb	0.0259	9.8	219.921
Fe 271.441	12814.0b	ppb	163.328	1.3	21153.7
K 766.491	1457.63b	ppb	24.8671	1.7	60898.0
Mg 279.078	126817b	ppb	1554.25	1.2	346782
Mn 257.610	98.5575b	ppb	1.4069	1.4	20956.5
Mo 202.032	0.2206b	ppb	0.6758	306.4	6.6596
Na 330.237	373390xb	ppb	5640.27	1.5	16600.1
Ni 231.604	2.5194b	ppb	1.7872	70.9	3.6833
Pb 220.353	1.9571b	ppb	0.8842	45.2	13.9138
Sb 206.834	-0.6438b	ppb	0.1213	18.8	-5.2275
Se 196.026	0.1147b	ppb	4.3202	3765.8	-0.8899
Sn 189.925	0.3854b	ppb	1.9530	506.7	-4.9397
Sr 216.596	502.343b	ppb	5.3750	1.1	6614.34
Ti 334.941	-0.1517b	ppb	0.0352	23.2	161.153
Tl 190.794	-1.1788b	ppb	1.1604	98.4	-12.5168
V 292.401	0.1083b	ppb	0.1780	164.4	-11.9324
Zn 206.200	2.2816b	ppb	0.2620	11.5	3.5274

680-107155-c-9-a^10 (Samp) **11/20/2014, 3:45:35 PM** **Rack 1, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0363u	0.1104u	-0.1081u
Al 308.215	16.6772	16.1883	18.0155
As 188.980	-0.5808u	-5.8081u	2.3697
B 249.678	186.879	184.861	183.833
Ba 389.178	73.4484	72.7765	72.5924
Be 313.042	0.1486u	0.1472u	0.1652u
Ca 370.602	70726	69944	69479
Cd 226.502	1.2233	1.4215	1.5079
Co 228.615	-0.3425u	0.2565	0.1103
Cr 267.716	-1.2364u	-1.4458u	-1.5581u
Cu 324.754	5.9197	5.6850	5.7555
Fe 271.441	33.9608	37.3748	32.7617
K 766.491	461346x	458797x	454770x
Mg 279.078	20077.2	19886.0	19699.9
Mn 257.610	553.644	548.319	543.266
Mo 202.032	0.4086	0.7597	0.2878
Na 330.237	3128620x	3107354x	3046230x
Ni 231.604	4.0453	4.9387	5.1506
Pb 220.353	1.8366	0.3363	2.6036
Sb 206.834	1.6942	4.9565	0.5950
Se 196.026	14.4247	0.1672	6.3126
Sn 189.925	-0.9064	-0.2513	-0.4901
Sr 216.596	463.471	457.187	454.624
Ti 334.941	0.4549u	0.5183u	0.4521u

Label	Replicates Concentration		
Tl 190.794	-3.3931u	-1.1606u	-5.3116u
V 292.401	0.3782u	0.1643u	0.2584u
Zn 206.200	17.8074	16.4410	15.0875

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0114b	ppb	0.1114	979.8	-36.9691
Al 308.215	16.9603b	ppb	0.9459	5.6	552.195
As 188.980	-1.3397b	ppb	4.1414	309.1	-7.8912
B 249.678	185.191b	ppb	1.5495	0.8	3137.00
Ba 389.178	72.9391b	ppb	0.4506	0.6	1528.20
Be 313.042	0.1537b	ppb	0.0100	6.5	-345.519
Ca 370.602	70050b	ppb	630.1	0.9	186553
Cd 226.502	1.3842b	ppb	0.1459	10.5	56.6047
Co 228.615	0.0081b	ppb	0.3123	3852.2	-1.4391
Cr 267.716	-1.4134b	ppb	0.1633	11.6	21.0919
Cu 324.754	5.7867b	ppb	0.1204	2.1	626.570
Fe 271.441	34.6991b	ppb	2.3935	6.9	74.0714
K 766.491	458304xb	ppb	3315.78	0.7	19069594
Mg 279.078	19887.7b	ppb	188.683	0.9	54393.7
Mn 257.610	548.410b	ppb	5.1894	0.9	111118
Mo 202.032	0.4854b	ppb	0.2452	50.5	9.0580
Na 330.237	3094068xb	ppb	42771.9	1.4	137368
Ni 231.604	4.7115b	ppb	0.5866	12.5	9.2445
Pb 220.353	1.5922b	ppb	1.1532	72.4	12.5349
Sb 206.834	2.4152b	ppb	2.2683	93.9	-1.2930
Se 196.026	6.9682b	ppb	7.1513	102.6	2.0525
Sn 189.925	-0.5493b	ppb	0.3316	60.4	-4.7968
Sr 216.596	458.427b	ppb	4.5517	1.0	5919.05
Ti 334.941	0.4751b	ppb	0.0374	7.9	-63.5164
Tl 190.794	-3.2884b	ppb	2.0775	63.2	-12.5934
V 292.401	0.2670b	ppb	0.1072	40.2	-24.3038
Zn 206.200	16.4453b	ppb	1.3599	8.3	19.8220

680-107155-c-9-a^100 (Samp) **11/20/2014, 3:49:52 PM** **Rack 1, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1035u	0.0760	-0.2250u
Al 308.215	2.7224	5.6803	4.4738
As 188.980	5.9043	-5.6679u	-1.8184u
B 249.678	18.1637	17.4186	17.5787
Ba 389.178	6.9917	7.1386	6.7967
Be 313.042	0.0053u	0.0006u	0.0098u
Ca 370.602	6450	6293	6202
Cd 226.502	0.2397	0.2638	0.1164
Co 228.615	-0.1152u	0.0353	0.0359
Cr 267.716	0.0273	-0.1395u	-0.0664
Cu 324.754	0.2668	0.3872	0.1158
Fe 271.441	2.0389	0.8352	6.7898
K 766.491	46737.0x	45740.0x	44934.6x
Mg 279.078	1932.13	1895.60	1867.08
Mn 257.610	51.5631	50.4878	49.7276
Mo 202.032	0.2036	0.4214	-0.1954u
Na 330.237	233633x	226311x	224075x

Label	Replicates Concentration		
Ni 231.604	1.2693	0.1417	0.4887
Pb 220.353	-0.4860u	3.1666	2.1477
Sb 206.834	5.7374	2.1476	2.0964
Se 196.026	10.6963	-4.6410u	-0.5347u
Sn 189.925	0.0392	-0.7165u	-0.4355u
Sr 216.596	41.2332	41.1994	40.7313
Ti 334.941	-0.0403u	-0.0238u	0.0150u
Tl 190.794	-0.3638u	2.9610	0.2966
V 292.401	0.2040	-0.0297u	-0.2455u
Zn 206.200	3.9114	3.3536	1.3120

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0842b	ppb	0.1514	179.9	-31.0759
Al 308.215	4.2922b	ppb	1.4873	34.7	466.183
As 188.980	-0.5273b	ppb	5.8931	1117.5	-7.4383
B 249.678	17.7203b	ppb	0.3923	2.2	353.159
Ba 389.178	6.9757b	ppb	0.1715	2.5	95.5478
Be 313.042	0.0052b	ppb	0.0046	88.7	-307.193
Ca 370.602	6315b	ppb	125.4	2.0	16823
Cd 226.502	0.2067b	ppb	0.0791	38.3	24.4785
Co 228.615	-0.0147b	ppb	0.0871	593.5	-1.9758
Cr 267.716	-0.0595b	ppb	0.0836	140.4	36.2724
Cu 324.754	0.2566b	ppb	0.1360	53.0	250.278
Fe 271.441	3.2213b	ppb	3.1485	97.7	22.1397
K 766.491	45803.8xb	ppb	902.868	2.0	1906077
Mg 279.078	1898.27b	ppb	32.6062	1.7	5214.94
Mn 257.610	50.5928b	ppb	0.9223	1.8	10325.7
Mo 202.032	0.1432b	ppb	0.3128	218.5	6.7371
Na 330.237	228006xb	ppb	4999.06	2.2	10149.6
Ni 231.604	0.6332b	ppb	0.5775	91.2	-3.0971
Pb 220.353	1.6094b	ppb	1.8849	117.1	12.4569
Sb 206.834	3.3271b	ppb	2.0875	62.7	-0.0401
Se 196.026	1.8402b	ppb	7.9397	431.5	-0.2663
Sn 189.925	-0.3709b	ppb	0.3820	103.0	-5.5584
Sr 216.596	41.0546b	ppb	0.2805	0.7	533.896
Ti 334.941	-0.0164b	ppb	0.0284	173.3	-12.9413
Tl 190.794	0.9646b	ppb	1.7602	182.5	-8.3433
V 292.401	-0.0237b	ppb	0.2248	948.1	-11.1192
Zn 206.200	2.8590b	ppb	1.3685	47.9	4.6397

680-107155-c-9-a^500 (Samp) **11/20/2014, 3:54:09 PM** **Rack 1, Tube 10**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1810	0.3318	-0.0993u
Al 308.215	3.4099	5.5734	1.4138
As 188.980	4.5373	-3.1140u	-1.7160u
B 249.678	3.8660	3.3971	4.0656
Ba 389.178	1.0972	2.2954	1.5901
Be 313.042	-0.0005u	0.0004u	-0.0011u
Ca 370.602	1203	1208	1189
Cd 226.502	0.0503	0.0759	0.0510
Co 228.615	-0.3005u	0.2996	0.0958
Cr 267.716	-0.1644u	-0.0805u	-0.1161u

Label	Replicates Concentration		
Cu 324.754	0.0757	-0.0824u	-0.2795u
Fe 271.441	-2.2880u	2.0833	6.0673
K 766.491	8019.44	8091.98	7960.33
Mg 279.078	361.760	360.207	357.389
Mn 257.610	9.5874	9.7222	9.6846
Mo 202.032	0.2627	-0.4310u	0.2971
Na 330.237	39032.1	39250.7	38886.8
Ni 231.604	0.1413	-0.2072u	-0.9035u
Pb 220.353	-0.2169u	1.6459	0.8815
Sb 206.834	1.3542	3.2015	3.4944
Se 196.026	-5.0546u	-1.5574u	0.1894
Sn 189.925	1.0337	1.3208	-3.5441u
Sr 216.596	7.7416	7.7701	7.7900
Ti 334.941	0.0486	0.0348	0.0291
Tl 190.794	2.0793	-0.7187u	1.0420
V 292.401	-0.2055u	-0.0637u	-0.2336u
Zn 206.200	0.7137	0.1377	-0.3276u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1378	ppb	0.2188	158.7	-11.8917
Al 308.215	3.4657	ppb	2.0803	60.0	460.580
As 188.980	-0.0976	ppb	4.0743	4176.3	-7.1987
B 249.678	3.7762	ppb	0.3432	9.1	121.326
Ba 389.178	1.6609	ppb	0.6022	36.3	-20.0659
Be 313.042	-0.0004	ppb	0.0007	181.5	-296.790
Ca 370.602	1200	ppb	9.943	0.8	3201
Cd 226.502	0.0591	ppb	0.0146	24.7	19.4256
Co 228.615	0.0316	ppb	0.3052	965.4	-1.4616
Cr 267.716	-0.1203	ppb	0.0421	35.0	29.1459
Cu 324.754	-0.0954	ppb	0.1780	186.5	226.315
Fe 271.441	1.9542	ppb	4.1791	213.9	20.0532
K 766.491	8023.92	ppb	65.9438	0.8	334111
Mg 279.078	359.785	ppb	2.2157	0.6	1009.05
Mn 257.610	9.6647	ppb	0.0696	0.7	2038.39
Mo 202.032	0.0430	ppb	0.4108	956.4	6.0569
Na 330.237	39056.5	ppb	183.183	0.5	1762.55
Ni 231.604	-0.3231	ppb	0.5320	164.6	-5.9913
Pb 220.353	0.7701	ppb	0.9364	121.6	11.0876
Sb 206.834	2.6834	ppb	1.1604	43.2	-0.9153
Se 196.026	-2.1408	ppb	2.6702	124.7	-1.9920
Sn 189.925	-0.3965	ppb	2.7296	688.4	-5.6370
Sr 216.596	7.7672	ppb	0.0243	0.3	104.385
Ti 334.941	0.0375	ppb	0.0100	26.6	15.3930
Tl 190.794	0.8009	ppb	1.4145	176.6	-8.5342
V 292.401	-0.1676	ppb	0.0911	54.3	-13.4765
Zn 206.200	0.1746	ppb	0.5217	298.8	1.6404

CRI (Samp) **11/20/2014, 3:58:27 PM** **Rack 1, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.7817	10.4327	11.0852
Al 308.215	208.179	208.158	207.581
As 188.980	22.6485	25.5464	16.2195

Label	Replicates Concentration		
B 249.678	103.475	102.668	103.631
Ba 389.178	11.1659	10.7595	11.0424
Be 313.042	4.4806	4.4440	4.4707
Ca 370.602	545.5	542.0	538.5
Cd 226.502	5.4643	5.4758	5.3872
Co 228.615	10.5405	10.5004	11.0657
Cr 267.716	10.8381	10.9934	10.9352
Cu 324.754	22.6442	22.7134	22.9305
Fe 271.441	58.3142	61.0554	55.9625
K 766.491	1065.34	1052.11	1056.77
Mg 279.078	528.260	523.389	525.715
Mn 257.610	11.8882	11.7330	11.7252
Mo 202.032	10.7163	11.0375	10.3944
Na 330.237	1200.64	951.904	1125.18
Ni 231.604	44.5453	43.8822	44.7311
Pb 220.353	10.7110	14.5398	11.5866
Sb 206.834	19.5071	21.5096	21.0879
Se 196.026	17.9043	13.9516	11.7452
Sn 189.925	52.1761	50.5574	48.9058
Sr 216.596	10.4448	9.9236	10.3578
Ti 334.941	10.5293	10.3867	10.4168
Tl 190.794	28.0423	30.5644	29.8509
V 292.401	11.1402	10.7761	10.9332
Zn 206.200	20.3567	23.4899	20.3552

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.7666	ppb	0.3265	3.0	861.160
Al 308.215	207.973	ppb	0.3394	0.2	1850.34
As 188.980	21.4714	ppb	4.7735	22.2	4.8169
B 249.678	103.258	ppb	0.5167	0.5	1774.49
Ba 389.178	10.9893	ppb	0.2083	1.9	177.981
Be 313.042	4.4651	ppb	0.0190	0.4	7862.82
Ca 370.602	542.0	ppb	3.532	0.7	1453
Cd 226.502	5.4425	ppb	0.0482	0.9	244.034
Co 228.615	10.7022	ppb	0.3155	2.9	121.567
Cr 267.716	10.9222	ppb	0.0785	0.7	623.005
Cu 324.754	22.7627	ppb	0.1494	0.7	1781.85
Fe 271.441	58.4441	ppb	2.5489	4.4	114.615
K 766.491	1058.07	ppb	6.7128	0.6	44273.0
Mg 279.078	525.788	ppb	2.4363	0.5	1462.84
Mn 257.610	11.7821	ppb	0.0920	0.8	2468.13
Mo 202.032	10.7160	ppb	0.3216	3.0	78.4873
Na 330.237	1092.57	ppb	127.533	11.7	76.9862
Ni 231.604	44.3862	ppb	0.4462	1.0	129.258
Pb 220.353	12.2791	ppb	2.0062	16.3	29.7289
Sb 206.834	20.7015	ppb	1.0557	5.1	23.6201
Se 196.026	14.5337	ppb	3.1205	21.5	5.1999
Sn 189.925	50.5464	ppb	1.6352	3.2	32.9599
Sr 216.596	10.2421	ppb	0.2792	2.7	134.543
Ti 334.941	10.4443	ppb	0.0751	0.7	3108.66
Tl 190.794	29.4859	ppb	1.3001	4.4	21.7423
V 292.401	10.9499	ppb	0.1826	1.7	275.387
Zn 206.200	21.4006	ppb	1.8094	8.5	25.3356

Cont Calib Verif (CCV) **11/20/2014, 4:03:05 PM** **Rack 1, Tube 13**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	509.100	507.726	505.168
Al 308.215	4929.01	4941.08	4934.98
As 188.980	511.876	503.371	495.899
B 249.678	498.163	503.786	503.253
Ba 389.178	5257.93	5267.89	5256.57
Be 313.042	527.237	527.852	527.406
Ca 370.602	5034	5049	5024
Cd 226.502	530.411	530.454	530.196
Co 228.615	535.609	536.268	534.253
Cr 267.716	5274.30	5282.37	5276.67
Cu 324.754	5421.66	5422.29	5347.24
Fe 271.441	4985.27	5009.24	4988.22
K 766.491	10273.3	10302.8	10291.1
Mg 279.078	5011.44	5020.36	5012.91
Mn 257.610	5344.81	5345.75	5364.81
Mo 202.032	498.450	502.753	498.684
Na 330.237	7762.59	7619.08	7661.94
Ni 231.604	2646.72	2662.74	2658.79
Pb 220.353	505.178	499.253	507.029
Sb 206.834	1001.13	998.089	1002.43
Se 196.026	4996.42	5015.70	4989.96
Sn 189.925	5014.26	5034.13	5066.34
Sr 216.596	2483.72	2492.65	2482.26
Ti 334.941	498.834	500.563	499.084
Tl 190.794	5113.33	5101.33	5089.33
V 292.401	4997.72	5012.39	4998.61
Zn 206.200	2654.45	2657.95	2639.18

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	507.331	ppb	1.9958	0.4	41607.5	101.46623
Al 308.215	4935.03	ppb	6.0343	0.1	34614.0	98.70051
As 188.980	503.715	ppb	7.9938	1.6	273.383	100.74308
B 249.678	501.734	ppb	3.1041	0.6	8398.71	100.34676
Ba 389.178	5260.80	ppb	6.1829	0.1	111409	105.21597
Be 313.042	527.498	ppb	0.3175	0.1	963393	105.49960
Ca 370.602	5036	ppb	12.35	0.2	13740	100.71436
Cd 226.502	530.354	ppb	0.1381	0.0	22119.9	106.07076
Co 228.615	535.376	ppb	1.0275	0.2	6181.02	107.07529
Cr 267.716	5277.78	ppb	4.1464	0.1	284245	105.55563
Cu 324.754	5397.06	ppb	43.1519	0.8	367400	107.94123
Fe 271.441	4994.24	ppb	13.0720	0.3	8364.02	99.88487
K 766.491	10289.1	ppb	14.8968	0.1	428360	102.89059
Mg 279.078	5014.90	ppb	4.7795	0.1	13624.9	100.29807
Mn 257.610	5351.79	ppb	11.2887	0.2	1082455	107.03579
Mo 202.032	499.962	ppb	2.4199	0.5	3393.67	99.99248
Na 330.237	7681.20	ppb	73.6707	1.0	317.531	102.41604
Ni 231.604	2656.08	ppb	8.3482	0.3	8030.23	106.24326
Pb 220.353	503.820	ppb	4.0621	0.8	831.156	100.76398
Sb 206.834	1000.55	ppb	2.2275	0.2	1417.66	100.05492
Se 196.026	5000.69	ppb	13.3939	0.3	2156.66	100.01380
Sn 189.925	5038.24	ppb	26.2811	0.5	3813.06	100.76489
Sr 216.596	2486.21	ppb	5.6248	0.2	31856.6	99.44839

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	499.494	ppb	0.9346	0.2	148322	99.89876
Tl 190.794	5101.33	ppb	11.9958	0.2	5384.09	102.02661
V 292.401	5002.91	ppb	8.2220	0.2	130661	100.05811
Zn 206.200	2650.53	ppb	9.9792	0.4	2952.30	106.02103

Cont Calib Blank (CCB) **11/20/2014, 4:07:20 PM** **Rack 1, Tube 14**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1335	-0.1449u	0.0499
Al 308.215	1.2800	1.1037	0.4230
As 188.980	-0.9872u	3.8724	-4.2943u
B 249.678	8.4994	7.4605	5.8944
Ba 389.178	0.0223	1.2025	0.4672
Be 313.042	0.0063	0.0108	0.0031
Ca 370.602	0.1178	7.360	3.316
Cd 226.502	0.0758	0.0514	0.0058
Co 228.615	0.7489	0.0190	0.2659
Cr 267.716	0.0179	0.0406	0.2554
Cu 324.754	-0.0233u	0.1527	0.0235
Fe 271.441	-0.3439u	2.4137	2.5111
K 766.491	2.6741	2.3021	2.4127
Mg 279.078	1.5007	0.5416	0.5859
Mn 257.610	0.1491	0.1187	0.1533
Mo 202.032	0.4121	0.3852	0.7396
Na 330.237	-88.4981u	0.2386	123.097
Ni 231.604	-0.0683u	0.5635	0.5858
Pb 220.353	4.5190	2.4972	1.8639
Sb 206.834	5.0982	5.2461	1.2624
Se 196.026	3.2300	-7.2642u	-0.5895u
Sn 189.925	-1.8862u	0.3346	0.1246
Sr 216.596	0.0200	0.3605	0.2747
Ti 334.941	0.0514	0.0377	0.0454
Tl 190.794	3.9390	3.6463	3.3743
V 292.401	-0.0380u	-0.1093u	0.0069
Zn 206.200	-0.8612u	-1.3093u	-0.6525u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0128	ppb	0.1429	1114.1	-21.9581	0.01282
Al 308.215	0.9356	ppb	0.4526	48.4	443.402	0.93557
As 188.980	-0.4697	ppb	4.1079	874.6	-7.4062	-0.46971
B 249.678	7.2848	ppb	1.3114	18.0	179.659	7.28476
Ba 389.178	0.5640	ppb	0.5960	105.7	-44.0029	0.56399
Be 313.042	0.0067	ppb	0.0039	57.9	-279.647	0.00670
Ca 370.602	3.598	ppb	3.630	100.9	15.35	3.59800
Cd 226.502	0.0443	ppb	0.0355	80.2	19.0425	0.04434
Co 228.615	0.3446	ppb	0.3713	107.7	2.1325	0.34462
Cr 267.716	0.1047	ppb	0.1311	125.3	40.4634	0.10465
Cu 324.754	0.0510	ppb	0.0912	178.9	236.293	0.05097
Fe 271.441	1.5270	ppb	1.6210	106.2	19.3939	1.52697
K 766.491	2.4630	ppb	0.1910	7.8	350.658	2.46296
Mg 279.078	0.8760	ppb	0.5414	61.8	27.8764	0.87604
Mn 257.610	0.1404	ppb	0.0189	13.5	109.838	0.14038
Mo 202.032	0.5123	ppb	0.1973	38.5	9.2427	0.51229

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	11.6123	ppb	106.255	915.0	29.4539	11.61232
Ni 231.604	0.3603	ppb	0.3714	103.1	-3.9243	0.36034
Pb 220.353	2.9601	ppb	1.3867	46.8	14.6348	2.96008
Sb 206.834	3.8689	ppb	2.2585	58.4	0.6956	3.86891
Se 196.026	-1.5413	ppb	5.3115	344.6	-1.7355	-1.54125
Sn 189.925	-0.4757	ppb	1.2261	257.7	-5.7093	-0.47569
Sr 216.596	0.2184	ppb	0.1771	81.1	6.9411	0.21840
Ti 334.941	0.0448	ppb	0.0069	15.3	20.0377	0.04481
Tl 190.794	3.6532	ppb	0.2825	7.7	-5.5293	3.65320
V 292.401	-0.0468	ppb	0.0586	125.2	-10.1286	-0.04680
Zn 206.200	-0.9410	ppb	0.3356	35.7	0.3933	-0.94100

mb 680-359457/1-a (Samp) **11/20/2014, 4:11:34 PM** **Rack 1, Tube 15**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2236u	-0.0128u	0.0818
Al 308.215	9.5488	10.4501	9.2754
As 188.980	0.9771	-3.1460u	-0.3615u
B 249.678	3.2501	3.5523	2.8357
Ba 389.178	0.4632	0.3061	-0.0925u
Be 313.042	-0.0004u	0.0082	0.0048
Ca 370.602	37.16	36.01	37.34
Cd 226.502	0.1402	0.0413	-0.0529u
Co 228.615	-0.1581u	-0.5724u	0.1370
Cr 267.716	1.4147	1.5117	1.3585
Cu 324.754	0.4776	0.1556	0.5956
Fe 271.441	16.8467	18.1800	20.5218
K 766.491	19.0813	19.5777	18.8500
Mg 279.078	8.5597	9.9215	8.4411
Mn 257.610	0.3995	0.4298	0.4319
Mo 202.032	0.5581	0.9131	0.6591
Na 330.237	87.0504	309.047	215.318
Ni 231.604	-0.7838u	0.0530	-0.6825u
Pb 220.353	2.5755	3.0797	5.7455
Sb 206.834	-1.1798u	4.1441	0.6549
Se 196.026	1.0926	1.1767	-0.8589u
Sn 189.925	17.8139	20.3563	14.2453
Sr 216.596	0.1579	0.4125	-0.0669u
Ti 334.941	0.2717	0.2695	0.2391
Tl 190.794	4.1882	-2.7287u	0.1690
V 292.401	-0.3119u	-0.1507u	-0.1456u
Zn 206.200	4.5002	4.2119	5.2518

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0515	ppb	0.1564	303.4	-27.2455
Al 308.215	9.7581	ppb	0.6147	6.3	503.302
As 188.980	-0.8435	ppb	2.1034	249.4	-7.6146
B 249.678	3.2127	ppb	0.3598	11.2	111.909
Ba 389.178	0.2256	ppb	0.2865	127.0	-51.1379
Be 313.042	0.0042	ppb	0.0043	102.8	-284.289
Ca 370.602	36.84	ppb	0.7218	2.0	103.7
Cd 226.502	0.0429	ppb	0.0966	225.3	19.0572
Co 228.615	-0.1978	ppb	0.3563	180.1	-4.1382

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	1.4283	ppb	0.0775	5.4	111.763
Cu 324.754	0.4096	ppb	0.2278	55.6	260.712
Fe 271.441	18.5161	ppb	1.8605	10.0	47.3685
K 766.491	19.1697	ppb	0.3718	1.9	1045.80
Mg 279.078	8.9741	ppb	0.8226	9.2	50.0102
Mn 257.610	0.4204	ppb	0.0182	4.3	166.589
Mo 202.032	0.7101	ppb	0.1829	25.8	10.5842
Na 330.237	203.805	ppb	111.445	54.7	37.8653
Ni 231.604	-0.4711	ppb	0.4567	96.9	-6.4370
Pb 220.353	3.8002	ppb	1.7034	44.8	15.9988
Sb 206.834	1.2064	ppb	2.7045	224.2	-2.9173
Se 196.026	0.4702	ppb	1.1517	245.0	-0.8678
Sn 189.925	17.4719	ppb	3.0698	17.6	7.8930
Sr 216.596	0.1678	ppb	0.2398	142.9	6.3555
Ti 334.941	0.2601	ppb	0.0182	7.0	83.9657
Tl 190.794	0.5429	ppb	3.4736	639.9	-8.8170
V 292.401	-0.2027	ppb	0.0946	46.7	-14.3327
Zn 206.200	4.6546	ppb	0.5369	11.5	6.6429

lcs 680-359457/2-a (Samp) **11/20/2014, 4:15:49 PM** **Rack 1, Tube 16**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.8172	52.0132	52.2977
Al 308.215	4842.38	4905.73	4889.46
As 188.980	95.6946	103.109	102.419
B 249.678	190.122	192.286	192.151
Ba 389.178	101.891	101.010	101.942
Be 313.042	52.5943	52.7852	52.6065
Ca 370.602	4935	4960	4932
Cd 226.502	52.6426	52.9120	52.2537
Co 228.615	52.1705	53.1243	52.6185
Cr 267.716	105.973	106.546	105.886
Cu 324.754	107.061	107.785	106.270
Fe 271.441	4880.62	4910.04	4890.69
K 766.491	4950.90	4944.37	4930.19
Mg 279.078	4850.32	4881.04	4854.66
Mn 257.610	535.492	538.020	536.074
Mo 202.032	97.7745	98.6025	98.4526
Na 330.237	5219.98	5441.14	5395.45
Ni 231.604	105.005	103.258	103.563
Pb 220.353	494.786	496.364	493.038
Sb 206.834	53.2979	54.1665	50.4134
Se 196.026	95.8084	93.3924	95.9640
Sn 189.925	201.393	197.916	201.174
Sr 216.596	97.3805	97.2331	95.9178
Ti 334.941	99.7139	99.5108	99.9312
Tl 190.794	42.0604	44.7503	41.3546
V 292.401	99.7886	100.074	99.4836
Zn 206.200	104.801	104.306	102.706

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.0427	ppb	0.2416	0.5	4250.90
Al 308.215	4879.19	ppb	32.9015	0.7	33570.3

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	100.408	ppb	4.0961	4.1	48.7532
B 249.678	191.520	ppb	1.2122	0.6	3230.31
Ba 389.178	101.614	ppb	0.5244	0.5	2110.32
Be 313.042	52.6620	ppb	0.1069	0.2	95888.1
Ca 370.602	4942	ppb	15.42	0.3	13173
Cd 226.502	52.6028	ppb	0.3309	0.6	2225.46
Co 228.615	52.6378	ppb	0.4772	0.9	605.332
Cr 267.716	106.135	ppb	0.3584	0.3	5754.50
Cu 324.754	107.039	ppb	0.7577	0.7	7520.00
Fe 271.441	4893.78	ppb	14.9497	0.3	8096.46
K 766.491	4941.82	ppb	10.5898	0.2	205870
Mg 279.078	4862.01	ppb	16.6215	0.3	13306.8
Mn 257.610	536.528	ppb	1.3240	0.2	108635
Mo 202.032	98.2765	ppb	0.4412	0.4	672.495
Na 330.237	5352.19	ppb	116.751	2.2	263.385
Ni 231.604	103.942	ppb	0.9331	0.9	309.753
Pb 220.353	494.729	ppb	1.6636	0.3	812.041
Sb 206.834	52.6259	ppb	1.9647	3.7	67.0050
Se 196.026	95.0549	ppb	1.4419	1.5	40.0787
Sn 189.925	200.161	ppb	1.9475	1.0	146.352
Sr 216.596	96.8438	ppb	0.8053	0.8	1252.32
Ti 334.941	99.7186	ppb	0.2102	0.2	29623.6
Tl 190.794	42.7218	ppb	1.7919	4.2	35.1996
V 292.401	99.7820	ppb	0.2952	0.3	2579.00
Zn 206.200	103.938	ppb	1.0945	1.1	117.198

lb 680-359391/1-b (Samp) **11/20/2014, 4:20:04 PM** **Rack 1, Tube 17**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0980	-0.2576u	0.1613
Al 308.215	9.2510	9.1662	9.8758
As 188.980	-0.5371u	-3.6026u	-2.9558u
B 249.678	3.5928	3.3354	3.3252
Ba 389.178	0.1368	-0.2737u	-0.5642u
Be 313.042	0.0051	0.0045	0.0050
Ca 370.602	24.97	27.35	30.79
Cd 226.502	0.0673	0.1665	0.0724
Co 228.615	0.5275	-0.0083u	0.1143
Cr 267.716	1.3939	1.2187	1.5597
Cu 324.754	-0.2976u	-0.0299u	0.1247
Fe 271.441	11.6785	11.7339	12.1447
K 766.491	21.7435	21.3870	22.1211
Mg 279.078	12.6518	12.1481	13.0863
Mn 257.610	0.2861	0.3282	0.3462
Mo 202.032	0.2392	0.0843	0.3942
Na 330.237	17074.2	16997.1	17052.0
Ni 231.604	0.9958	0.4458	-0.1287u
Pb 220.353	1.9632	2.1602	1.9016
Sb 206.834	-0.9112u	1.1708	3.9167
Se 196.026	-9.6361u	-5.4936u	-4.9117u
Sn 189.925	17.9282	17.8026	17.4724
Sr 216.596	0.6021	0.6066	0.5929
Ti 334.941	0.1924	0.1461	0.1534

Label	Replicates Concentration		
Tl 190.794	0.5769	-0.6001u	1.5158
V 292.401	-0.1857u	-0.1262u	-0.2624u
Zn 206.200	5.7125	4.5969	4.3041

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0005	ppb	0.2258	41929.6	-22.9743
Al 308.215	9.4310	ppb	0.3876	4.1	501.074
As 188.980	-2.3652	ppb	1.6159	68.3	-8.4624
B 249.678	3.4178	ppb	0.1516	4.4	115.336
Ba 389.178	-0.2337	ppb	0.3522	150.7	-60.8701
Be 313.042	0.0049	ppb	0.0004	7.3	-284.816
Ca 370.602	27.70	ppb	2.929	10.6	79.46
Cd 226.502	0.1021	ppb	0.0559	54.7	21.3917
Co 228.615	0.2112	ppb	0.2807	132.9	0.5891
Cr 267.716	1.3907	ppb	0.1705	12.3	110.060
Cu 324.754	-0.0676	ppb	0.2137	315.9	228.224
Fe 271.441	11.8523	ppb	0.2547	2.1	36.4100
K 766.491	21.7505	ppb	0.3671	1.7	1153.18
Mg 279.078	12.6287	ppb	0.4695	3.7	60.0060
Mn 257.610	0.3202	ppb	0.0309	9.6	146.240
Mo 202.032	0.2392	ppb	0.1549	64.8	7.3885
Na 330.237	17041.1	ppb	39.6945	0.2	785.239
Ni 231.604	0.4376	ppb	0.5623	128.5	-3.6889
Pb 220.353	2.0083	ppb	0.1351	6.7	13.0941
Sb 206.834	1.3921	ppb	2.4216	173.9	-2.6575
Se 196.026	-6.6804	ppb	2.5761	38.6	-3.9516
Sn 189.925	17.7344	ppb	0.2354	1.3	8.0972
Sr 216.596	0.6005	ppb	0.0070	1.2	11.8791
Ti 334.941	0.1640	ppb	0.0249	15.2	54.0865
Tl 190.794	0.4975	ppb	1.0602	213.1	-8.8617
V 292.401	-0.1914	ppb	0.0683	35.7	-14.0850
Zn 206.200	4.8711	ppb	0.7432	15.3	6.8851

680-107365-a-2-b (Samp) **11/20/2014, 4:24:20 PM** **Rack 1, Tube 18**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4849	0.3808	0.5590
Al 308.215	173.802	173.240	173.019
As 188.980	0.7305	-3.8103u	-4.3546u
B 249.678	5.1282	5.8073	4.9701
Ba 389.178	1.2191	1.8050	1.3722
Be 313.042	0.0128	0.0072	0.0168
Ca 370.602	220.2	220.9	224.7
Cd 226.502	0.8536	0.5655	0.6466
Co 228.615	0.3033	1.0028	0.3944
Cr 267.716	13.4424	13.6902	13.5218
Cu 324.754	153.218	156.133	154.031
Fe 271.441	537.250	542.879	535.822
K 766.491	22.8877	23.3455	22.2992
Mg 279.078	80.2571	79.8506	81.9539
Mn 257.610	5.1381	5.1589	5.1340
Mo 202.032	12.3766	11.8401	11.6162
Na 330.237	176.846	270.863	203.696

Label	Replicates Concentration		
Ni 231.604	4.7218	5.4070	5.4881
Pb 220.353	74.2543	72.1438	77.9993
Sb 206.834	7.9534	8.0985	7.5252
Se 196.026	3.5093	0.2349	-7.0384u
Sn 189.925	18.3645	19.4302	17.4070
Sr 216.596	0.2230	0.6825	0.5293
Ti 334.941	8.9383	8.9605	8.9359
Tl 190.794	-0.4483u	-2.9147u	0.9524
V 292.401	0.1738	0.4072	0.1659
Zn 206.200	252.541	255.834	257.742

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.4749	ppb	0.0895	18.9	15.9369
Al 308.215	173.354	ppb	0.4038	0.2	1614.07
As 188.980	-2.4782	ppb	2.7921	112.7	-8.5311
B 249.678	5.3018	ppb	0.4448	8.4	145.508
Ba 389.178	1.4654	ppb	0.3039	20.7	-24.3009
Be 313.042	0.0123	ppb	0.0048	39.0	-271.087
Ca 370.602	221.9	ppb	2.386	1.1	595.3
Cd 226.502	0.6885	ppb	0.1486	21.6	47.8265
Co 228.615	0.5668	ppb	0.3803	67.1	4.6215
Cr 267.716	13.5515	ppb	0.1265	0.9	764.947
Cu 324.754	154.461	ppb	1.5041	1.0	10742.9
Fe 271.441	538.650	ppb	3.7310	0.7	905.456
K 766.491	22.8441	ppb	0.5245	2.3	1198.69
Mg 279.078	80.6872	ppb	1.1157	1.4	245.938
Mn 257.610	5.1437	ppb	0.0134	0.3	1123.76
Mo 202.032	11.9443	ppb	0.3908	3.3	86.8135
Na 330.237	217.135	ppb	48.4280	22.3	33.4627
Ni 231.604	5.2056	ppb	0.4210	8.1	10.7802
Pb 220.353	74.7992	ppb	2.9656	4.0	131.110
Sb 206.834	7.8590	ppb	0.2981	3.8	6.1198
Se 196.026	-1.0981	ppb	5.3987	491.7	-1.5387
Sn 189.925	18.4006	ppb	1.0121	5.5	8.5968
Sr 216.596	0.4782	ppb	0.2340	48.9	10.8349
Ti 334.941	8.9449	ppb	0.0135	0.2	2662.80
Tl 190.794	-0.8035	ppb	1.9578	243.7	-10.3490
V 292.401	0.2490	ppb	0.1371	55.1	-5.3502
Zn 206.200	255.372	ppb	2.6309	1.0	286.779

680-107365-a-2-bSD^5 (Samp) **11/20/2014, 4:28:35 PM** **Rack 1, Tube 19**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0963	0.0223	0.2656
Al 308.215	34.2325	35.2462	35.5656
As 188.980	0.5863	-3.4435u	-2.9409u
B 249.678	0.6837	0.7118	0.6744
Ba 389.178	-0.0507u	0.1154	0.8388
Be 313.042	0.0068	0.0135	0.0079
Ca 370.602	50.03	54.33	51.08
Cd 226.502	0.2743	0.0178	0.1308
Co 228.615	0.2889	0.1802	0.1721
Cr 267.716	2.8812	2.5909	2.7246

Label	Replicates Concentration		
Cu 324.754	30.3367	30.4054	29.7766
Fe 271.441	109.224	106.617	102.520
K 766.491	6.8874	7.3007	7.5934
Mg 279.078	15.9552	15.4477	19.4125
Mn 257.610	1.2243	1.3243	1.2814
Mo 202.032	2.5677	2.5669	2.8117
Na 330.237	-82.9400u	39.4510	-16.1346u
Ni 231.604	1.4130	1.5276	1.9455
Pb 220.353	17.0111	15.7975	15.7922
Sb 206.834	3.8346	-0.2801u	1.8543
Se 196.026	-0.5302u	-0.3111u	0.7905
Sn 189.925	5.0185	5.7647	4.4932
Sr 216.596	0.0913	0.1457	-0.0284u
Ti 334.941	1.7586	1.7517	1.7899
Tl 190.794	1.2026	0.9058	1.9553
V 292.401	-0.1298u	-0.0475u	0.0919
Zn 206.200	51.5434	50.3339	51.8481

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1281	ppb	0.1248	97.4	-12.4906
Al 308.215	35.0148	ppb	0.6961	2.0	674.806
As 188.980	-1.9327	ppb	2.1959	113.6	-8.2225
B 249.678	0.6900	ppb	0.0195	2.8	69.7844
Ba 389.178	0.3012	ppb	0.4730	157.0	-49.4484
Be 313.042	0.0094	ppb	0.0036	37.9	-275.003
Ca 370.602	51.81	ppb	2.243	4.3	143.4
Cd 226.502	0.1410	ppb	0.1286	91.2	23.4571
Co 228.615	0.2137	ppb	0.0652	30.5	0.6103
Cr 267.716	2.7322	ppb	0.1453	5.3	182.030
Cu 324.754	30.1729	ppb	0.3449	1.1	2285.90
Fe 271.441	106.120	ppb	3.3796	3.2	191.902
K 766.491	7.2605	ppb	0.3547	4.9	550.275
Mg 279.078	16.9385	ppb	2.1576	12.7	71.7595
Mn 257.610	1.2767	ppb	0.0502	3.9	340.052
Mo 202.032	2.6488	ppb	0.1411	5.3	23.7391
Na 330.237	-19.8745	ppb	61.2812	308.3	27.0141
Ni 231.604	1.6287	ppb	0.2803	17.2	-0.0771
Pb 220.353	16.2003	ppb	0.7022	4.3	36.1025
Sb 206.834	1.8029	ppb	2.0578	114.1	-2.1206
Se 196.026	-0.0169	ppb	0.7078	4185.1	-1.0769
Sn 189.925	5.0921	ppb	0.6389	12.5	-1.4895
Sr 216.596	0.0695	ppb	0.0891	128.1	5.1306
Ti 334.941	1.7667	ppb	0.0204	1.2	531.346
Tl 190.794	1.3546	ppb	0.5410	39.9	-7.9782
V 292.401	-0.0284	ppb	0.1121	394.1	-10.2012
Zn 206.200	51.2418	ppb	0.8009	1.6	58.6987

680-107365-a-2-bPDS (Samp) **11/20/2014, 4:32:51 PM** **Rack 1, Tube 20**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	102.691	103.098	102.996
Al 308.215	1170.28	1171.36	1171.47
As 188.980	109.607	102.078	106.785

Label	Replicates Concentration		
B 249.678	204.579	205.335	204.589
Ba 389.178	94.7876	94.6815	96.4146
Be 313.042	110.071	109.914	110.237
Ca 370.602	10522	10489	10532
Cd 226.502	106.533	106.550	105.581
Co 228.615	108.485	109.453	109.534
Cr 267.716	122.170	122.290	122.109
Cu 324.754	265.265	266.763	264.035
Fe 271.441	10683.9	10681.1	10699.5
K 766.491	9955.73	9952.79	9958.14
Mg 279.078	10075.2	10066.2	10065.6
Mn 257.610	1127.00	1128.18	1128.85
Mo 202.032	114.309	113.482	114.123
Na 330.237	8840.84	8953.51	8877.92
Ni 231.604	112.731	111.175	111.272
Pb 220.353	174.122	172.509	174.336
Sb 206.834	108.390	106.706	106.726
Se 196.026	104.206	94.7215	92.9208
Sn 189.925	113.062	114.065	117.104
Sr 216.596	100.184	100.355	100.830
Ti 334.941	111.769	111.693	111.746
Tl 190.794	22.0229	20.8885	19.8582
V 292.401	103.997	103.182	104.063
Zn 206.200	357.044	357.882	359.891

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	102.928	ppb	0.2115	0.2	8432.66
Al 308.215	1171.03	ppb	0.6590	0.1	8402.56
As 188.980	106.156	ppb	3.8036	3.6	51.9208
B 249.678	204.835	ppb	0.4334	0.2	3438.95
Ba 389.178	95.2946	ppb	0.9714	1.0	1991.02
Be 313.042	110.074	ppb	0.1615	0.1	200751
Ca 370.602	10514	ppb	22.11	0.2	27974
Cd 226.502	106.221	ppb	0.5548	0.5	4479.48
Co 228.615	109.158	ppb	0.5835	0.5	1257.76
Cr 267.716	122.189	ppb	0.0924	0.1	6624.20
Cu 324.754	265.354	ppb	1.3665	0.5	18294.6
Fe 271.441	10688.2	ppb	9.9346	0.1	17661.2
K 766.491	9955.55	ppb	2.6788	0.0	414484
Mg 279.078	10069.0	ppb	5.3574	0.1	27533.6
Mn 257.610	1128.01	ppb	0.9366	0.1	228308
Mo 202.032	113.971	ppb	0.4336	0.4	778.749
Na 330.237	8890.75	ppb	57.4209	0.6	414.254
Ni 231.604	111.726	ppb	0.8715	0.8	333.651
Pb 220.353	173.656	ppb	0.9986	0.6	292.120
Sb 206.834	107.274	ppb	0.9667	0.9	141.583
Se 196.026	97.2826	ppb	6.0626	6.2	41.2158
Sn 189.925	114.744	ppb	2.1047	1.8	81.6168
Sr 216.596	100.456	ppb	0.3347	0.3	1308.67
Ti 334.941	111.736	ppb	0.0388	0.0	33201.3
Tl 190.794	20.9232	ppb	1.0828	5.2	11.7126
V 292.401	103.747	ppb	0.4905	0.5	2677.08
Zn 206.200	358.272	ppb	1.4631	0.4	401.174

680-107365-a-2-c ms (Samp) **11/20/2014, 4:37:07 PM** **Rack 1, Tube 21**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	109.554	110.842	109.949
Al 308.215	10698.5	10715.7	10717.8
As 188.980	222.078	219.800	211.590
B 249.678	387.176	388.476	390.554
Ba 389.178	224.171	223.531	224.785
Be 313.042	116.763	116.820	116.950
Ca 370.602	10792	10790	10800
Cd 226.502	112.512	112.774	113.132
Co 228.615	114.327	114.444	114.809
Cr 267.716	240.838	241.056	241.639
Cu 324.754	388.212	391.865	394.133
Fe 271.441	11045.0	11070.2	11077.7
K 766.491	10293.0	10304.0	10314.1
Mg 279.078	10509.6	10516.9	10530.1
Mn 257.610	1171.76	1174.07	1178.07
Mo 202.032	219.998	221.543	220.054
Na 330.237	10585.0	10385.0	10601.7
Ni 231.604	229.365	225.948	228.037
Pb 220.353	1121.94	1130.37	1127.36
Sb 206.834	109.425	109.028	109.254
Se 196.026	201.836	207.725	203.565
Sn 189.925	422.232	411.315	420.782
Sr 216.596	210.978	212.173	212.034
Ti 334.941	222.049	222.618	222.359
Tl 190.794	83.6422	84.2938	84.7810
V 292.401	210.595	211.203	211.399
Zn 206.200	481.913	481.515	487.064

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	110.115	ppb	0.6602	0.6	9019.79
Al 308.215	10710.7	ppb	10.6059	0.1	73169.8
As 188.980	217.823	ppb	5.5164	2.5	114.115
B 249.678	388.735	ppb	1.7036	0.4	6493.78
Ba 389.178	224.162	ppb	0.6273	0.3	4722.70
Be 313.042	116.844	ppb	0.0959	0.1	213107
Ca 370.602	10794	ppb	5.155	0.0	28764
Cd 226.502	112.806	ppb	0.3113	0.3	4754.96
Co 228.615	114.527	ppb	0.2513	0.2	1319.21
Cr 267.716	241.177	ppb	0.4141	0.2	13032.0
Cu 324.754	391.404	ppb	2.9874	0.8	26873.7
Fe 271.441	11064.3	ppb	17.0971	0.2	18283.4
K 766.491	10303.7	ppb	10.5438	0.1	428969
Mg 279.078	10518.8	ppb	10.3697	0.1	28759.1
Mn 257.610	1174.63	ppb	3.1898	0.3	237741
Mo 202.032	220.532	ppb	0.8763	0.4	1501.91
Na 330.237	10523.9	ppb	120.597	1.1	484.202
Ni 231.604	227.783	ppb	1.7227	0.8	684.812
Pb 220.353	1126.56	ppb	4.2714	0.4	1836.55
Sb 206.834	109.236	ppb	0.1994	0.2	144.015
Se 196.026	204.375	ppb	3.0270	1.5	87.4128
Sn 189.925	418.109	ppb	5.9290	1.4	311.533
Sr 216.596	211.728	ppb	0.6535	0.3	2733.51

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	222.342	ppb	0.2851	0.1	66043.0
Tl 190.794	84.2390	ppb	0.5714	0.7	78.3299
V 292.401	211.066	ppb	0.4195	0.2	5461.68
Zn 206.200	483.498	ppb	3.0954	0.6	540.852

680-107365-a-2-d msd (Samp) **11/20/2014, 4:41:24 PM** **Rack 1, Tube 22**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	107.361	107.762	106.283
Al 308.215	10348.4	10376.1	10375.3
As 188.980	209.084	218.095	214.169
B 249.678	375.095	377.376	378.730
Ba 389.178	216.755	216.757	217.859
Be 313.042	112.793	113.185	113.097
Ca 370.602	10498	10546	10552
Cd 226.502	109.328	110.031	109.803
Co 228.615	110.695	110.756	111.178
Cr 267.716	233.768	234.571	234.784
Cu 324.754	389.282	392.172	390.884
Fe 271.441	10739.0	10797.5	10784.4
K 766.491	9945.09	9969.20	9965.22
Mg 279.078	10466.6	10501.7	10490.5
Mn 257.610	1133.54	1136.97	1134.86
Mo 202.032	216.419	217.413	217.044
Na 330.237	10088.1	10222.5	10206.1
Ni 231.604	220.122	222.487	223.638
Pb 220.353	1098.24	1100.92	1093.99
Sb 206.834	105.009	111.116	106.380
Se 196.026	183.642	194.262	192.237
Sn 189.925	411.498	406.577	403.324
Sr 216.596	202.931	204.244	204.362
Ti 334.941	213.713	213.979	214.004
Tl 190.794	80.9378	81.7007	83.5244
V 292.401	205.408	206.209	206.721
Zn 206.200	483.845	487.934	480.350

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	107.135	ppb	0.7652	0.7	8775.13
Al 308.215	10366.6	ppb	15.7791	0.2	70833.2
As 188.980	213.783	ppb	4.5181	2.1	111.866
B 249.678	377.067	ppb	1.8371	0.5	6300.54
Ba 389.178	217.124	ppb	0.6370	0.3	4573.28
Be 313.042	113.025	ppb	0.2058	0.2	206131
Ca 370.602	10532	ppb	29.80	0.3	28064
Cd 226.502	109.721	ppb	0.3590	0.3	4625.39
Co 228.615	110.876	ppb	0.2629	0.2	1276.98
Cr 267.716	234.374	ppb	0.5357	0.2	12665.3
Cu 324.754	390.779	ppb	1.4481	0.4	26831.0
Fe 271.441	10773.6	ppb	30.7196	0.3	17803.4
K 766.491	9959.84	ppb	12.9229	0.1	414662
Mg 279.078	10486.3	ppb	17.9117	0.2	28670.9
Mn 257.610	1135.12	ppb	1.7306	0.2	229749
Mo 202.032	216.959	ppb	0.5027	0.2	1477.67

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	10172.3	ppb	73.3209	0.7	468.671
Ni 231.604	222.082	ppb	1.7926	0.8	667.547
Pb 220.353	1097.72	ppb	3.4953	0.3	1789.78
Sb 206.834	107.502	ppb	3.2042	3.0	141.612
Se 196.026	190.047	ppb	5.6385	3.0	81.2230
Sn 189.925	407.133	ppb	4.1152	1.0	303.214
Sr 216.596	203.846	ppb	0.7942	0.4	2631.96
Ti 334.941	213.899	ppb	0.1610	0.1	63535.9
Tl 190.794	82.0543	ppb	1.3291	1.6	76.0450
V 292.401	206.112	ppb	0.6619	0.3	5333.06
Zn 206.200	484.043	ppb	3.7956	0.8	541.488

CRI (Samp) **11/20/2014, 4:45:41 PM** **Rack 1, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.4024	10.5127	10.7120
Al 308.215	203.092	203.840	204.549
As 188.980	16.4545	18.9906	19.9107
B 249.678	107.174	108.449	107.360
Ba 389.178	9.9790	11.5493	11.4347
Be 313.042	4.4315	4.4463	4.4289
Ca 370.602	527.0	532.3	530.3
Cd 226.502	5.4945	5.5472	5.4652
Co 228.615	10.1972	10.9155	10.6573
Cr 267.716	10.8371	10.9377	10.7602
Cu 324.754	22.1867	22.3987	22.0012
Fe 271.441	55.7908	55.6951	55.6720
K 766.491	1036.69	1042.12	1041.66
Mg 279.078	519.528	527.475	518.912
Mn 257.610	11.5040	11.6499	11.5169
Mo 202.032	10.7394	10.9622	10.5781
Na 330.237	926.603	1008.63	940.800
Ni 231.604	43.8173	43.0283	43.8642
Pb 220.353	12.8319	11.4823	11.4618
Sb 206.834	22.0244	19.7755	19.6452
Se 196.026	12.4416	20.1923	14.7076
Sn 189.925	49.2666	55.9080	53.5371
Sr 216.596	10.3702	10.3187	10.5554
Ti 334.941	10.3335	10.3586	10.3211
Tl 190.794	27.0319	26.8664	30.4417
V 292.401	10.8368	11.1795	10.8270
Zn 206.200	21.2621	23.8090	23.3118

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.5424	ppb	0.1569	1.5	842.727
Al 308.215	203.827	ppb	0.7289	0.4	1822.19
As 188.980	18.4519	ppb	1.7899	9.7	3.1344
B 249.678	107.661	ppb	0.6888	0.6	1847.63
Ba 389.178	10.9877	ppb	0.8754	8.0	177.936
Be 313.042	4.4356	ppb	0.0094	0.2	7808.87
Ca 370.602	529.9	ppb	2.664	0.5	1421
Cd 226.502	5.5023	ppb	0.0416	0.8	246.511
Co 228.615	10.5900	ppb	0.3639	3.4	120.266

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	10.8450	ppb	0.0890	0.8	618.840
Cu 324.754	22.1955	ppb	0.1989	0.9	1743.26
Fe 271.441	55.7193	ppb	0.0630	0.1	110.108
K 766.491	1040.16	ppb	3.0132	0.3	43527.5
Mg 279.078	521.972	ppb	4.7763	0.9	1452.41
Mn 257.610	11.5570	ppb	0.0808	0.7	2422.56
Mo 202.032	10.7599	ppb	0.1929	1.8	78.7851
Na 330.237	958.677	ppb	43.8382	4.6	71.0247
Ni 231.604	43.5699	ppb	0.4696	1.1	126.789
Pb 220.353	11.9254	ppb	0.7851	6.6	29.1550
Sb 206.834	20.4817	ppb	1.3376	6.5	23.3190
Se 196.026	15.7805	ppb	3.9852	25.3	5.7374
Sn 189.925	52.9039	ppb	3.3657	6.4	34.7466
Sr 216.596	10.4148	ppb	0.1245	1.2	136.771
Ti 334.941	10.3377	ppb	0.0191	0.2	3077.02
Tl 190.794	28.1133	ppb	2.0181	7.2	20.2934
V 292.401	10.9478	ppb	0.2008	1.8	275.317
Zn 206.200	22.7943	ppb	1.3500	5.9	26.8934

mb 680-359467/1-a (Samp) **11/20/2014, 4:49:57 PM** **Rack 1, Tube 24**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0608	-0.1782u	0.0928
Al 308.215	4.4088	4.7923	4.7479
As 188.980	-0.3298u	-5.3968u	1.5006
B 249.678	4.1261	3.4578	3.2408
Ba 389.178	0.5801	0.0468	-0.0918u
Be 313.042	0.0064	0.0000u	0.0110
Ca 370.602	23.99	22.11	22.99
Cd 226.502	0.1768	-0.0131u	-0.0620u
Co 228.615	0.0131	-0.1964u	-0.4578u
Cr 267.716	0.7320	0.6787	0.6621
Cu 324.754	0.2879	0.0108	-0.2350u
Fe 271.441	9.7389	3.2962	4.8993
K 766.491	10.1167	9.9207	11.2888
Mg 279.078	6.1817	3.2069	4.7651
Mn 257.610	0.1850	0.2212	0.2322
Mo 202.032	0.1129	0.0408	0.1728
Na 330.237	-58.5235u	26.4588	-18.2742u
Ni 231.604	-0.0143u	0.3945	0.2387
Pb 220.353	3.4324	1.4892	0.0964
Sb 206.834	-1.4622u	-0.3152u	3.5879
Se 196.026	-2.8586u	-6.1984u	-3.3374u
Sn 189.925	10.1526	6.9271	7.4706
Sr 216.596	0.1620	0.4171	0.4094
Ti 334.941	0.0681	0.0590	-0.0239u
Tl 190.794	1.2526	-2.2121u	2.1238
V 292.401	-0.2330u	-0.2613u	-0.0681u
Zn 206.200	1.8588	2.3462	2.5895

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0082	ppb	0.1481	1808.2	-23.6869
Al 308.215	4.6497	ppb	0.2098	4.5	468.611

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-1.4087	ppb	3.5730	253.6	-7.9293
B 249.678	3.6082	ppb	0.4614	12.8	118.489
Ba 389.178	0.1784	ppb	0.3548	198.9	-52.1620
Be 313.042	0.0058	ppb	0.0055	95.3	-281.260
Ca 370.602	23.03	ppb	0.9380	4.1	67.04
Cd 226.502	0.0339	ppb	0.1261	372.1	18.6250
Co 228.615	-0.2137	ppb	0.2360	110.4	-4.3066
Cr 267.716	0.6909	ppb	0.0365	5.3	72.0392
Cu 324.754	0.0212	ppb	0.2616	1231.5	234.262
Fe 271.441	5.9781	ppb	3.3541	56.1	26.6808
K 766.491	10.4421	ppb	0.7398	7.1	682.656
Mg 279.078	4.7179	ppb	1.4879	31.5	38.3784
Mn 257.610	0.2128	ppb	0.0247	11.6	124.522
Mo 202.032	0.1089	ppb	0.0661	60.7	6.5041
Na 330.237	-16.7796	ppb	42.5109	253.3	28.1285
Ni 231.604	0.2063	ppb	0.2063	100.0	-4.3888
Pb 220.353	1.6727	ppb	1.6755	100.2	12.5493
Sb 206.834	0.6035	ppb	2.6474	438.7	-3.7412
Se 196.026	-4.1314	ppb	1.8060	43.7	-2.8524
Sn 189.925	8.1834	ppb	1.7269	21.1	0.8534
Sr 216.596	0.3295	ppb	0.1451	44.0	8.3929
Ti 334.941	0.0344	ppb	0.0507	147.4	16.9590
Tl 190.794	0.3881	ppb	2.2936	591.0	-8.9762
V 292.401	-0.1875	ppb	0.1043	55.6	-13.7877
Zn 206.200	2.2648	ppb	0.3721	16.4	3.9744

Cont Calib Verif (CCV) **11/20/2014, 4:54:13 PM** **Rack 1, Tube 25**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	501.483	502.673	503.159
Al 308.215	4918.18	4911.93	4894.54
As 188.980	493.138	488.955	488.135
B 249.678	496.036	498.223	498.200
Ba 389.178	5242.05	5232.41	5217.50
Be 313.042	527.698	524.438	523.234
Ca 370.602	4981	4988	4970
Cd 226.502	530.168	529.729	527.716
Co 228.615	532.327	532.383	531.377
Cr 267.716	5263.04	5248.35	5236.13
Cu 324.754	5388.71	5375.96	5383.90
Fe 271.441	4980.15	4958.31	4946.68
K 766.491	10257.0	10249.4	10189.6
Mg 279.078	5001.81	4991.43	4971.13
Mn 257.610	5354.83	5353.47	5312.03
Mo 202.032	498.991	497.230	497.806
Na 330.237	7405.71	7550.99	7613.70
Ni 231.604	2631.77	2631.82	2612.77
Pb 220.353	503.870	503.386	502.733
Sb 206.834	991.899	984.275	988.082
Se 196.026	4968.40	4956.38	4930.10
Sn 189.925	4974.45	4974.72	4974.58
Sr 216.596	2490.98	2481.64	2495.30
Ti 334.941	497.269	495.871	494.453

Label	Replicates Concentration		
Tl 190.794	5065.24	5073.86	5066.71
V 292.401	4965.51	4955.10	4947.24
Zn 206.200	2651.13	2647.67	2638.33

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	502.438	ppb	0.8620	0.2	41204.8	100.48769
Al 308.215	4908.22	ppb	12.2493	0.2	34428.6	98.16431
As 188.980	490.076	ppb	2.6836	0.5	265.784	98.01520
B 249.678	497.487	ppb	1.2562	0.3	8328.08	99.49733
Ba 389.178	5230.66	ppb	12.3682	0.2	110770	104.61311
Be 313.042	525.123	ppb	2.3094	0.4	959054	105.02467
Ca 370.602	4980	ppb	8.944	0.2	13589	99.59183
Cd 226.502	529.204	ppb	1.3074	0.2	22071.9	105.84090
Co 228.615	532.029	ppb	0.5651	0.1	6142.41	106.40581
Cr 267.716	5249.17	ppb	13.4718	0.3	282704	104.98349
Cu 324.754	5382.86	ppb	6.4383	0.1	366434	107.65715
Fe 271.441	4961.71	ppb	16.9935	0.3	8309.83	99.23423
K 766.491	10232.0	ppb	36.9505	0.4	425986	102.32001
Mg 279.078	4988.13	ppb	15.6042	0.3	13552.1	99.76254
Mn 257.610	5340.11	ppb	24.3305	0.5	1080093	106.80224
Mo 202.032	498.009	ppb	0.8976	0.2	3380.44	99.60182
Na 330.237	7523.47	ppb	106.691	1.4	310.549	100.31292
Ni 231.604	2625.45	ppb	10.9827	0.4	7937.57	105.01811
Pb 220.353	503.330	ppb	0.5706	0.1	830.353	100.66592
Sb 206.834	988.085	ppb	3.8116	0.4	1400.59	98.80850
Se 196.026	4951.63	ppb	19.5887	0.4	2135.50	99.03253
Sn 189.925	4974.58	ppb	0.1358	0.0	3764.81	99.49161
Sr 216.596	2489.31	ppb	6.9822	0.3	31897.2	99.57230
Ti 334.941	495.864	ppb	1.4080	0.3	147245	99.17287
Tl 190.794	5068.60	ppb	4.6157	0.1	5349.50	101.37206
V 292.401	4955.95	ppb	9.1631	0.2	129432	99.11905
Zn 206.200	2645.71	ppb	6.6186	0.3	2946.93	105.82843

Cont Calib Blank (CCB) **11/20/2014, 4:58:28 PM** **Rack 1, Tube 26**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1252	0.0104	-0.0160u
Al 308.215	0.9974	1.4197	0.1056
As 188.980	5.3178	-4.7085u	-1.6879u
B 249.678	8.6710	7.2359	6.0588
Ba 389.178	0.1411	-0.1947u	0.4245
Be 313.042	0.0080	0.0058	0.0104
Ca 370.602	4.674	4.871	2.148
Cd 226.502	0.1075	0.0918	-0.0199u
Co 228.615	-0.5387u	-0.4594u	0.4633
Cr 267.716	0.0231	0.0790	0.2562
Cu 324.754	0.3189	-0.0743u	-0.3360u
Fe 271.441	-3.2038u	0.5787	3.2480
K 766.491	0.8721	1.1491	1.7359
Mg 279.078	-0.7441u	0.9668	1.2694
Mn 257.610	0.1074	0.1814	0.1084
Mo 202.032	0.8380	0.4568	0.6385
Na 330.237	-107.994u	-5.4069u	74.9570

Label	Replicates Concentration		
Ni 231.604	0.0331	0.5426	0.1029
Pb 220.353	1.8554	3.3791	-0.0328u
Sb 206.834	5.7455	4.3359	0.9833
Se 196.026	-0.1283u	-3.2947u	-3.5770u
Sn 189.925	-0.2712u	3.3085	2.7986
Sr 216.596	-0.0990u	0.2584	0.3865
Ti 334.941	0.0558	0.0580	0.0244
Tl 190.794	3.5490	3.6474	3.1096
V 292.401	0.2400	0.0778	0.1140
Zn 206.200	-0.6736u	0.1162	-0.0694u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0399	ppb	0.0751	188.2	-19.7239	0.03987
Al 308.215	0.8409	ppb	0.6709	79.8	442.819	0.84089
As 188.980	-0.3595	ppb	5.1435	1430.7	-7.3448	-0.35949
B 249.678	7.3219	ppb	1.3082	17.9	180.267	7.32189
Ba 389.178	0.1236	ppb	0.3099	250.7	-53.3302	0.12362
Be 313.042	0.0081	ppb	0.0023	28.2	-277.069	0.00810
Ca 370.602	3.898	ppb	1.518	39.0	16.14	3.89802
Cd 226.502	0.0598	ppb	0.0695	116.2	19.6897	0.05978
Co 228.615	-0.1782	ppb	0.5570	312.5	-3.9027	-0.17825
Cr 267.716	0.1194	ppb	0.1217	101.9	41.2538	0.11942
Cu 324.754	-0.0305	ppb	0.3297	1081.6	230.748	-0.03048
Fe 271.441	0.2077	ppb	3.2419	1561.1	17.1601	0.20767
K 766.491	1.2524	ppb	0.4411	35.2	300.287	1.25238
Mg 279.078	0.4974	ppb	1.0857	218.3	26.8417	0.49738
Mn 257.610	0.1324	ppb	0.0424	32.1	108.222	0.13239
Mo 202.032	0.6444	ppb	0.1907	29.6	10.1393	0.64445
Na 330.237	-12.8147	ppb	91.7002	715.6	28.3586	-12.81468
Ni 231.604	0.2262	ppb	0.2762	122.1	-4.3287	0.22621
Pb 220.353	1.7339	ppb	1.7092	98.6	12.6474	1.73390
Sb 206.834	3.6882	ppb	2.4463	66.3	0.4493	3.68822
Se 196.026	-2.3333	ppb	1.9148	82.1	-2.0770	-2.33335
Sn 189.925	1.9453	ppb	1.9364	99.5	-3.8744	1.94529
Sr 216.596	0.1819	ppb	0.2516	138.3	6.4808	0.18194
Ti 334.941	0.0461	ppb	0.0188	40.8	20.4121	0.04606
Tl 190.794	3.4354	ppb	0.2864	8.3	-5.7602	3.43536
V 292.401	0.1440	ppb	0.0852	59.1	-5.1454	0.14397
Zn 206.200	-0.2089	ppb	0.4130	197.7	1.2113	-0.20892

lcs 680-359467/2-a (Samp) **11/20/2014, 5:02:43 PM** **Rack 1, Tube 27**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.7198	53.6341	53.9421
Al 308.215	5105.63	5103.73	5094.96
As 188.980	109.135	101.015	111.746
B 249.678	200.047	201.869	200.894
Ba 389.178	108.515	107.923	107.906
Be 313.042	55.3369	55.3374	55.2449
Ca 370.602	5178	5176	5149
Cd 226.502	55.4009	55.1944	55.0759
Co 228.615	55.0993	56.3861	55.0271
Cr 267.716	111.832	111.916	111.642

Label	Replicates Concentration		
Cu 324.754	111.779	112.026	112.088
Fe 271.441	5158.77	5150.40	5145.20
K 766.491	5221.79	5213.63	5205.69
Mg 279.078	5115.33	5112.12	5095.89
Mn 257.610	566.282	566.126	565.327
Mo 202.032	103.084	103.972	102.475
Na 330.237	5203.46	5162.84	5011.38
Ni 231.604	111.452	112.589	110.734
Pb 220.353	518.505	519.868	515.728
Sb 206.834	57.7721	55.3608	52.5845
Se 196.026	101.574	97.4329	93.4999
Sn 189.925	207.486	210.753	212.668
Sr 216.596	102.294	102.678	102.042
Ti 334.941	104.589	104.650	104.514
Tl 190.794	39.8662	42.4748	43.1393
V 292.401	105.074	104.842	104.574
Zn 206.200	110.541	111.119	109.954

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.7653	ppb	0.1590	0.3	4392.32
Al 308.215	5101.44	ppb	5.6939	0.1	35079.7
As 188.980	107.299	ppb	5.5962	5.2	52.5903
B 249.678	200.937	ppb	0.9117	0.5	3386.22
Ba 389.178	108.115	ppb	0.3467	0.3	2248.74
Be 313.042	55.3064	ppb	0.0533	0.1	100718
Ca 370.602	5167	ppb	15.95	0.3	13773
Cd 226.502	55.2238	ppb	0.1645	0.3	2335.56
Co 228.615	55.5042	ppb	0.7647	1.4	638.396
Cr 267.716	111.797	ppb	0.1406	0.1	6059.62
Cu 324.754	111.964	ppb	0.1632	0.1	7855.35
Fe 271.441	5151.45	ppb	6.8454	0.1	8521.89
K 766.491	5213.71	ppb	8.0489	0.2	217183
Mg 279.078	5107.78	ppb	10.4202	0.2	13978.2
Mn 257.610	565.912	ppb	0.5124	0.1	114580
Mo 202.032	103.177	ppb	0.7526	0.7	705.740
Na 330.237	5125.89	ppb	101.232	2.0	253.165
Ni 231.604	111.592	ppb	0.9353	0.8	332.912
Pb 220.353	518.034	ppb	2.1102	0.4	849.832
Sb 206.834	55.2391	ppb	2.5959	4.7	70.5669
Se 196.026	97.5023	ppb	4.0376	4.1	41.1425
Sn 189.925	210.302	ppb	2.6204	1.2	154.038
Sr 216.596	102.338	ppb	0.3207	0.3	1323.07
Ti 334.941	104.584	ppb	0.0683	0.1	31068.9
Tl 190.794	41.8267	ppb	1.7301	4.1	34.2291
V 292.401	104.830	ppb	0.2501	0.2	2709.87
Zn 206.200	110.538	ppb	0.5826	0.5	124.552

680-107381-a-1-a (Samp) **11/20/2014, 5:06:57 PM** **Rack 1, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.9595u	-0.5908u	-1.1117u
Al 308.215	55940.3	55961.9	55944.1
As 188.980	130.330	131.419	136.722

Label	Replicates Concentration		
B 249.678	17.2443	16.5607	15.8795
Ba 389.178	276.458	276.803	277.511
Be 313.042	2.3363	2.3241	2.3337
Ca 370.602	37330	37306	37404
Cd 226.502	0.6826	0.8283	0.7078
Co 228.615	40.1801	40.8175	40.5156
Cr 267.716	115.705	116.017	115.888
Cu 324.754	122.939	122.116	122.970
Fe 271.441	90187.3	90154.7	90278.3
K 766.491	13476.4	13457.5	13440.3
Mg 279.078	26352.3	26392.6	26393.3
Mn 257.610	1595.29	1597.64	1594.15
Mo 202.032	10.6653	10.4518	9.6685
Na 330.237	2530.00	2522.96	2494.69
Ni 231.604	109.089	110.083	112.559
Pb 220.353	167.038	165.547	162.377
Sb 206.834	5.9493	3.0331	0.0278
Se 196.026	-3.0010u	-6.5360u	-1.0558
Sn 189.925	17.0717	17.1511	11.5808
Sr 216.596	159.131	157.641	160.044
Ti 334.941	2828.99	2831.11	2826.85
Tl 190.794	0.8648u	2.1101u	0.2381u
V 292.401	108.550	108.289	108.448
Zn 206.200	613.866	610.119	615.196

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8873	ppb	0.2679	30.2	-108.354
Al 308.215	55948.7	ppb	11.5299	0.0	380213
As 188.980	132.824	ppb	3.4195	2.6	66.3676
B 249.678	16.5615	ppb	0.6824	4.1	125.058
Ba 389.178	276.924	ppb	0.5372	0.2	5928.30
Be 313.042	2.3313	ppb	0.0064	0.3	3984.18
Ca 370.602	37347	ppb	51.16	0.1	99793
Cd 226.502	0.7396	ppb	0.0779	10.5	373.861
Co 228.615	40.5044	ppb	0.3188	0.8	532.325
Cr 267.716	115.870	ppb	0.1569	0.1	6331.48
Cu 324.754	122.675	ppb	0.4844	0.4	8614.81
Fe 271.441	90206.8	ppb	64.1021	0.1	148821
K 766.491	13458.1	ppb	18.0693	0.1	560218
Mg 279.078	26379.4	ppb	23.4988	0.1	72101.3
Mn 257.610	1595.69	ppb	1.7820	0.1	323229
Mo 202.032	10.2619	ppb	0.5249	5.1	71.0640
Na 330.237	2515.88	ppb	18.6927	0.7	108.753
Ni 231.604	110.577	ppb	1.7870	1.6	337.005
Pb 220.353	164.988	ppb	2.3806	1.4	281.602
Sb 206.834	3.0034	ppb	2.9609	98.6	2.3846
Se 196.026	-3.5309	ppb	2.7783	78.7	-1.4816
Sn 189.925	15.2678	ppb	3.1934	20.9	6.2230
Sr 216.596	158.939	ppb	1.2130	0.8	2183.24
Ti 334.941	2828.98	ppb	2.1300	0.1	840030
Tl 190.794	1.0710	ppb	0.9529	89.0	-20.8389
V 292.401	108.429	ppb	0.1313	0.1	2810.98
Zn 206.200	613.060	ppb	2.6328	0.4	683.017

680-107381-a-1-aSD^5 (Samp) **11/20/2014, 5:11:12 PM** **Rack 1, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0464u	-0.0366u	-0.2458u
Al 308.215	10965.8	10993.7	11024.7
As 188.980	23.9985	31.4936	31.5752
B 249.678	4.2739	3.6819	3.7037
Ba 389.178	55.5211	56.2400	56.0224
Be 313.042	0.4457	0.4424	0.4607
Ca 370.602	7551	7588	7588
Cd 226.502	0.0939	0.3308	0.0577
Co 228.615	8.3647	8.0860	8.4064
Cr 267.716	23.7338	23.4551	23.7158
Cu 324.754	24.6853	24.4216	24.0580
Fe 271.441	18328.3	18386.9	18416.0
K 766.491	2511.67	2518.23	2521.31
Mg 279.078	5285.17	5297.68	5306.43
Mn 257.610	322.120	322.605	323.848
Mo 202.032	2.7559	2.5365	1.9338
Na 330.237	562.275	437.745	457.102
Ni 231.604	22.9013	22.1011	22.6362
Pb 220.353	34.2420	33.7346	33.9922
Sb 206.834	2.5413	-0.5609u	3.0309
Se 196.026	-2.6651u	1.7645	-5.6711u
Sn 189.925	4.1887	2.1529	2.1234
Sr 216.596	31.9976	31.5154	31.9588
Ti 334.941	575.180	576.690	578.803
Tl 190.794	-0.0354u	2.0810u	0.9683u
V 292.401	21.5203	21.8466	21.5608
Zn 206.200	125.504	124.510	127.025

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1096	ppb	0.1181	107.7	-34.5132
Al 308.215	10994.7	ppb	29.4951	0.3	75068.5
As 188.980	29.0224	ppb	4.3511	15.0	8.9257
B 249.678	3.8865	ppb	0.3357	8.6	80.6770
Ba 389.178	55.9278	ppb	0.3687	0.7	1152.66
Be 313.042	0.4496	ppb	0.0097	2.2	532.859
Ca 370.602	7576	ppb	21.62	0.3	20247
Cd 226.502	0.1608	ppb	0.1483	92.2	90.1803
Co 228.615	8.2857	ppb	0.1742	2.1	107.336
Cr 267.716	23.6349	ppb	0.1560	0.7	1319.17
Cu 324.754	24.3883	ppb	0.3150	1.3	1899.36
Fe 271.441	18377.1	ppb	44.7021	0.2	30331.4
K 766.491	2517.07	ppb	4.9239	0.2	104980
Mg 279.078	5296.43	ppb	10.6875	0.2	14496.8
Mn 257.610	322.857	ppb	0.8911	0.3	65464.0
Mo 202.032	2.4087	ppb	0.4256	17.7	21.2296
Na 330.237	485.707	ppb	67.0118	13.8	43.9874
Ni 231.604	22.5462	ppb	0.4076	1.8	64.7182
Pb 220.353	33.9896	ppb	0.2537	0.7	65.8185
Sb 206.834	1.6704	ppb	1.9478	116.6	-1.7191
Se 196.026	-2.1905	ppb	3.7404	170.8	-1.7895
Sn 189.925	2.8217	ppb	1.1840	42.0	-3.2101
Sr 216.596	31.8239	ppb	0.2679	0.8	440.901

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	576.891	ppb	1.8198	0.3	171305
Tl 190.794	1.0046	ppb	1.0587	105.4	-10.8860
V 292.401	21.6426	ppb	0.1778	0.8	553.875
Zn 206.200	125.680	ppb	1.2670	1.0	141.176

680-107381-a-1-aPDS (Samp) **11/20/2014, 5:22:30 PM** **Rack 1, Tube 30**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	94.5776	95.7194	94.6120
Al 308.215	56265.7	56335.5	56346.3
As 188.980	230.646	236.232	230.374
B 249.678	196.071	194.741	195.838
Ba 389.178	358.294	358.871	358.543
Be 313.042	99.9847	100.007	100.066
Ca 370.602	46724	46703	46574
Cd 226.502	96.5395	96.3601	96.4555
Co 228.615	137.298	137.726	137.080
Cr 267.716	212.039	212.048	212.167
Cu 324.754	223.808	225.148	224.733
Fe 271.441	97956.8	98109.3	98187.0
K 766.491	22692.8	22793.1	22755.3
Mg 279.078	34914.6	34964.9	34927.8
Mn 257.610	2568.33	2571.19	2574.71
Mo 202.032	101.763	102.983	101.653
Na 330.237	10975.6	10818.4	10793.2
Ni 231.604	205.396	204.750	206.832
Pb 220.353	254.777	247.935	257.404
Sb 206.834	99.1504	97.5127	91.3660
Se 196.026	95.8811	91.6030	87.1251
Sn 189.925	108.488	103.467	104.797
Sr 216.596	246.118	244.766	245.659
Ti 334.941	2874.94	2888.39	2886.54
Tl 190.794	24.3841	22.6911	24.1884
V 292.401	201.868	202.765	202.574
Zn 206.200	693.593	699.218	699.423

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	94.9697	ppb	0.6495	0.7	7766.80
Al 308.215	56315.9	ppb	43.7291	0.1	382719
As 188.980	232.417	ppb	3.3062	1.4	121.798
B 249.678	195.550	ppb	0.7098	0.4	3082.97
Ba 389.178	358.569	ppb	0.2893	0.1	7680.78
Be 313.042	100.019	ppb	0.0417	0.0	182406
Ca 370.602	46667	ppb	81.10	0.2	124579
Cd 226.502	96.4517	ppb	0.0898	0.1	4387.36
Co 228.615	137.368	ppb	0.3290	0.2	1648.91
Cr 267.716	212.085	ppb	0.0713	0.0	11519.9
Cu 324.754	224.563	ppb	0.6862	0.3	15552.4
Fe 271.441	98084.4	ppb	117.106	0.1	161827
K 766.491	22747.1	ppb	50.6653	0.2	946720
Mg 279.078	34935.8	ppb	26.0470	0.1	95476.6
Mn 257.610	2571.41	ppb	3.1979	0.1	520636
Mo 202.032	102.133	ppb	0.7379	0.7	694194

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	10862.4	ppb	98.8148	0.9	475.925
Ni 231.604	205.659	ppb	1.0655	0.5	625.083
Pb 220.353	253.372	ppb	4.8882	1.9	425.486
Sb 206.834	96.0097	ppb	4.1041	4.3	129.075
Se 196.026	91.5364	ppb	4.3784	4.8	39.7943
Sn 189.925	105.584	ppb	2.6011	2.5	74.6753
Sr 216.596	245.515	ppb	0.6875	0.3	3305.28
Ti 334.941	2883.29	ppb	7.2907	0.3	856170
Tl 190.794	23.7545	ppb	0.9262	3.9	2.5393
V 292.401	202.402	ppb	0.4727	0.2	5247.04
Zn 206.200	697.411	ppb	3.3083	0.5	776.802

680-107381-a-1-b ms (Samp) **11/20/2014, 5:26:46 PM** **Rack 1, Tube 31**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.8530	51.8668	52.6675
Al 308.215	59896.1	59905.0	59793.2
As 188.980	249.823	249.168	252.997
B 249.678	191.100	192.717	192.858
Ba 389.178	348.840	346.928	348.793
Be 313.042	55.6585	55.6669	55.6584
Ca 370.602	32900	33039	33057
Cd 226.502	54.0339	53.7317	53.4481
Co 228.615	94.9440	94.7392	95.8817
Cr 267.716	230.401	231.316	231.134
Cu 324.754	229.593	231.146	229.347
Fe 271.441	91955.3	91935.7	91916.3
K 766.491	16421.9	16412.3	16333.1
Mg 279.078	26568.4	26601.6	26594.2
Mn 257.610	2287.76	2284.88	2282.18
Mo 202.032	100.814	101.523	101.667
Na 330.237	7462.44	7358.25	7272.23
Ni 231.604	233.326	229.515	228.207
Pb 220.353	652.023	642.524	649.023
Sb 206.834	33.4110	36.5947	39.5076
Se 196.026	87.6598	103.020	100.207
Sn 189.925	212.367	215.903	204.614
Sr 216.596	241.853	242.706	242.503
Ti 334.941	2708.12	2707.83	2705.58
Tl 190.794	42.8224	43.4278	41.6117
V 292.401	203.804	203.074	204.027
Zn 206.200	651.643	654.539	651.828

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.1291	ppb	0.4663	0.9	4247.34
Al 308.215	59864.8	ppb	62.1557	0.1	406807
As 188.980	250.663	ppb	2.0483	0.8	131.997
B 249.678	192.225	ppb	0.9771	0.5	3040.33
Ba 389.178	348.187	ppb	1.0907	0.3	7440.16
Be 313.042	55.6613	ppb	0.0049	0.0	101382
Ca 370.602	32999	ppb	86.11	0.3	88164
Cd 226.502	53.7379	ppb	0.2929	0.5	2587.45
Co 228.615	95.1883	ppb	0.6092	0.6	1158.39

E11202014B.wvq. All Data Report 11/21/2014, 11:18:49 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	230.950	ppb	0.4846	0.2	12531.7
Cu 324.754	230.029	ppb	0.9752	0.4	15922.0
Fe 271.441	91935.8	ppb	19.4923	0.0	151680
K 766.491	16389.1	ppb	48.7274	0.3	682173
Mg 279.078	26588.1	ppb	17.4223	0.1	72656.1
Mn 257.610	2284.94	ppb	2.7894	0.1	462625
Mo 202.032	101.335	ppb	0.4569	0.5	689.047
Na 330.237	7364.30	ppb	95.2495	1.3	322.816
Ni 231.604	230.349	ppb	2.6596	1.2	699.399
Pb 220.353	647.857	ppb	4.8555	0.7	1064.54
Sb 206.834	36.5044	ppb	3.0493	8.4	48.0691
Se 196.026	96.9622	ppb	8.1780	8.4	42.0183
Sn 189.925	210.962	ppb	5.7742	2.7	154.538
Sr 216.596	242.354	ppb	0.4459	0.2	3250.50
Ti 334.941	2707.17	ppb	1.3887	0.1	803864
Tl 190.794	42.6206	ppb	0.9247	2.2	23.0758
V 292.401	203.635	ppb	0.4989	0.2	5279.41
Zn 206.200	652.670	ppb	1.6211	0.2	726.977

680-107381-a-1-c msd (Samp) **11/20/2014, 5:31:02 PM** **Rack 1, Tube 32**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	49.9244	48.8107	49.9988
Al 308.215	61299.1	61323.2	61208.5
As 188.980	254.214	253.880	255.891
B 249.678	185.581	185.801	186.435
Ba 389.178	342.203	342.967	343.575
Be 313.042	54.0482	54.0644	54.1160
Ca 370.602	29774	29779	29778
Cd 226.502	52.0581	51.9866	51.8263
Co 228.615	122.997	123.882	122.665
Cr 267.716	212.261	212.224	211.933
Cu 324.754	254.404	252.194	254.621
Fe 271.441	104216	104100	104344
K 766.491	15857.4	15847.5	15865.9
Mg 279.078	26996.5	26983.1	26986.7
Mn 257.610	2734.18	2750.28	2743.47
Mo 202.032	100.385	100.676	100.722
Na 330.237	7626.79	7467.27	7473.68
Ni 231.604	256.797	253.303	252.851
Pb 220.353	651.603	654.840	656.070
Sb 206.834	37.8213	36.3960	31.9790
Se 196.026	96.6069	82.7005	81.9219
Sn 189.925	199.510	202.223	199.662
Sr 216.596	227.604	226.753	227.504
Ti 334.941	2445.91	2456.93	2452.41
Tl 190.794	41.2921	45.7535	42.2116
V 292.401	202.804	203.312	203.758
Zn 206.200	797.257	795.025	801.067

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	49.5780	ppb	0.6655	1.3	4038.54
Al 308.215	61276.9	ppb	60.4391	0.1	416394

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	254.662	ppb	1.0776	0.4	134.158
B 249.678	185.939	ppb	0.4431	0.2	2907.61
Ba 389.178	342.915	ppb	0.6879	0.2	7338.20
Be 313.042	54.0762	ppb	0.0354	0.1	98485.5
Ca 370.602	29777	ppb	2.763	0.0	79370
Cd 226.502	51.9570	ppb	0.1187	0.2	2558.47
Co 228.615	123.181	ppb	0.6292	0.5	1476.64
Cr 267.716	212.139	ppb	0.1798	0.1	11526.1
Cu 324.754	253.740	ppb	1.3426	0.5	17540.1
Fe 271.441	104220	ppb	121.708	0.1	171947
K 766.491	15857.0	ppb	9.2264	0.1	660032
Mg 279.078	26988.7	ppb	6.9452	0.0	73741.6
Mn 257.610	2742.64	ppb	8.0799	0.3	555226
Mo 202.032	100.595	ppb	0.1826	0.2	683.451
Na 330.237	7522.58	ppb	90.3067	1.2	324.321
Ni 231.604	254.317	ppb	2.1595	0.8	772.871
Pb 220.353	654.171	ppb	2.3077	0.4	1075.81
Sb 206.834	35.3988	ppb	3.0461	8.6	46.5552
Se 196.026	87.0765	ppb	8.2628	9.5	37.9580
Sn 189.925	200.465	ppb	1.5243	0.8	146.582
Sr 216.596	227.287	ppb	0.4650	0.2	3072.07
Ti 334.941	2451.75	ppb	5.5383	0.2	728027
Tl 190.794	43.0857	ppb	2.3557	5.5	22.0199
V 292.401	203.291	ppb	0.4773	0.2	5265.13
Zn 206.200	797.783	ppb	3.0551	0.4	888.737

680-107367-c-1-a (Samp) **11/20/2014, 5:35:19 PM** **Rack 1, Tube 33**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.5028	0.6594	0.5959
Al 308.215	1008.90	1007.32	1011.46
As 188.980	0.4985	2.0916	-1.0526u
B 249.678	104.295	104.702	104.733
Ba 389.178	151.197	152.374	152.397
Be 313.042	0.0649	0.0645	0.0727
Ca 370.602	27823	27886	27824
Cd 226.502	2.3708	2.4523	2.6596
Co 228.615	4.1789	4.7286	4.4167
Cr 267.716	29.6138	29.5109	29.9014
Cu 324.754	273.306	273.349	276.078
Fe 271.441	17693.4	17715.9	17763.7
K 766.491	830.254	830.080	832.048
Mg 279.078	3984.53	3989.79	4003.24
Mn 257.610	141.191	141.190	141.941
Mo 202.032	104.523	104.687	105.115
Na 330.237	2001.72	1962.46	1976.76
Ni 231.604	23.1629	22.1177	22.7155
Pb 220.353	74.2219	70.0586	73.7834
Sb 206.834	4.7232	12.4906	10.2841
Se 196.026	-4.7387u	7.6441	-2.3370u
Sn 189.925	31.4968	34.0693	28.5488
Sr 216.596	36.8726	36.9282	36.7306
Ti 334.941	34.9380	34.8786	35.0620

Label	Replicates Concentration		
Tl 190.794	-0.5896u	1.2251u	3.5540
V 292.401	4.6417	4.9731	5.1260
Zn 206.200	2764.49	2775.15	2770.07

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.5861	ppb	0.0788	13.4	21.5106
Al 308.215	1009.23	ppb	2.0869	0.2	7292.22
As 188.980	0.5125	ppb	1.5722	306.8	-6.9815
B 249.678	104.576	ppb	0.2442	0.2	1755.32
Ba 389.178	151.989	ppb	0.6864	0.5	3184.94
Be 313.042	0.0674	ppb	0.0047	6.9	-175.231
Ca 370.602	27844	ppb	36.06	0.1	73997
Cd 226.502	2.4942	ppb	0.1489	6.0	185.905
Co 228.615	4.4414	ppb	0.2756	6.2	48.5115
Cr 267.716	29.6754	ppb	0.2024	0.7	1642.15
Cu 324.754	274.244	ppb	1.5882	0.6	18903.3
Fe 271.441	17724.4	ppb	35.9024	0.2	29254.2
K 766.491	830.794	ppb	1.0893	0.1	34816.3
Mg 279.078	3992.52	ppb	9.6519	0.2	10939.0
Mn 257.610	141.440	ppb	0.4336	0.3	28764.1
Mo 202.032	104.775	ppb	0.3057	0.3	716.105
Na 330.237	1980.31	ppb	19.8699	1.0	58.8994
Ni 231.604	22.6654	ppb	0.5244	2.3	65.0365
Pb 220.353	72.6880	ppb	2.2876	3.1	128.740
Sb 206.834	9.1660	ppb	4.0026	43.7	6.8335
Se 196.026	0.1895	ppb	6.5667	3466.1	-0.8077
Sn 189.925	31.3716	ppb	2.7624	8.8	18.4277
Sr 216.596	36.8438	ppb	0.1019	0.3	511.374
Ti 334.941	34.9595	ppb	0.0936	0.3	10395.9
Tl 190.794	1.3965	ppb	2.0771	148.7	-10.8465
V 292.401	4.9136	ppb	0.2475	5.0	91.9893
Zn 206.200	2769.91	ppb	5.3298	0.2	3096.14

CRI (Samp) **11/20/2014, 5:40:18 PM** **Rack 1, Tube 34**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.1230	10.8627	10.1569
Al 308.215	204.427	207.469	204.860
As 188.980	18.8789	19.9311	22.9337
B 249.678	102.183	103.290	102.144
Ba 389.178	10.9904	10.2925	10.9675
Be 313.042	4.4098	4.4278	4.3797
Ca 370.602	534.9	530.4	532.1
Cd 226.502	5.4126	5.4696	5.2619
Co 228.615	10.8636	11.2115	10.4376
Cr 267.716	10.7192	10.9945	10.6773
Cu 324.754	22.1007	22.4569	21.7995
Fe 271.441	59.3624	65.4799	61.2013
K 766.491	1033.74	1038.72	1026.84
Mg 279.078	519.372	520.948	514.104
Mn 257.610	11.3411	11.5353	11.3384
Mo 202.032	10.4391	10.5240	10.4487
Na 330.237	876.882	1017.33	1036.89

Label	Replicates Concentration		
Ni 231.604	43.0948	42.8613	44.4450
Pb 220.353	10.4713	11.6319	11.1733
Sb 206.834	23.0553	22.0676	22.7299
Se 196.026	17.4644	14.2514	17.6070
Sn 189.925	51.5685	48.8468	53.1245
Sr 216.596	9.9684	10.1665	9.5796
Ti 334.941	10.4972	10.5002	10.3339
Tl 190.794	25.4536	26.4020	29.1152
V 292.401	10.7687	11.0377	11.0635
Zn 206.200	20.9757	22.9801	21.3939

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.3809	ppb	0.4177	4.0	829.476
Al 308.215	205.585	ppb	1.6456	0.8	1834.12
As 188.980	20.5812	ppb	2.1041	10.2	4.3209
B 249.678	102.539	ppb	0.6508	0.6	1762.52
Ba 389.178	10.7501	ppb	0.3965	3.7	172.900
Be 313.042	4.4058	ppb	0.0243	0.6	7754.50
Ca 370.602	532.4	ppb	2.259	0.4	1428
Cd 226.502	5.3814	ppb	0.1073	2.0	241.505
Co 228.615	10.8376	ppb	0.3876	3.6	123.136
Cr 267.716	10.7970	ppb	0.1723	1.6	616.260
Cu 324.754	22.1190	ppb	0.3291	1.5	1738.05
Fe 271.441	62.0145	ppb	3.1388	5.1	120.528
K 766.491	1033.10	ppb	5.9652	0.6	43233.9
Mg 279.078	518.141	ppb	3.5838	0.7	1441.94
Mn 257.610	11.4049	ppb	0.1129	1.0	2391.81
Mo 202.032	10.4706	ppb	0.0465	0.4	76.8213
Na 330.237	977.037	ppb	87.2859	8.9	71.8463
Ni 231.604	43.4670	ppb	0.8549	2.0	126.477
Pb 220.353	11.0922	ppb	0.5845	5.3	27.8053
Sb 206.834	22.6176	ppb	0.5033	2.2	26.2358
Se 196.026	16.4409	ppb	1.8976	11.5	6.0223
Sn 189.925	51.1799	ppb	2.1651	4.2	33.4400
Sr 216.596	9.9048	ppb	0.2986	3.0	130.243
Ti 334.941	10.4438	ppb	0.0952	0.9	3108.50
Tl 190.794	26.9903	ppb	1.9003	7.0	19.1090
V 292.401	10.9566	ppb	0.1633	1.5	275.625
Zn 206.200	21.7833	ppb	1.0574	4.9	25.7633

mb 680-359032/1-a (Samp) **11/20/2014, 5:44:35 PM** **Rack 1, Tube 35**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2124	0.0606	-0.1126u
Al 308.215	2.3644	4.1337	3.1213
As 188.980	-0.2063u	0.2275	1.9720
B 249.678	1.9301	1.8832	1.8744
Ba 389.178	-0.3734u	0.4885	-0.9408u
Be 313.042	0.0074	0.0062	-0.0035u
Ca 370.602	21.36	17.44	24.62
Cd 226.502	-0.1162u	0.1676	-0.0716u
Co 228.615	0.5146	0.1452	0.2438
Cr 267.716	0.4915	0.4191	0.3371

Label	Replicates Concentration		
Cu 324.754	-0.2673u	-0.1996u	-0.2588u
Fe 271.441	9.5459	9.9302	4.8416
K 766.491	6.9997	6.9968	6.9244
Mg 279.078	1.0309	4.6444	-1.0207u
Mn 257.610	0.1929	0.1846	0.1978
Mo 202.032	0.4491	0.2971	0.8179
Na 330.237	130.832	165.265	-98.5026u
Ni 231.604	-0.2468u	0.4484	1.2606
Pb 220.353	1.1276	1.1768	1.0880
Sb 206.834	-1.1243u	-0.0096u	0.3844
Se 196.026	1.0325	3.6777	-0.3211u
Sn 189.925	7.4482	4.7781	5.9636
Sr 216.596	0.2108	-0.0765u	0.0400
Ti 334.941	0.0567	0.0989	0.0804
Tl 190.794	1.6567	1.9450	1.0324
V 292.401	-0.2507u	-0.3139u	-0.2878u
Zn 206.200	2.9195	0.2934	1.5030

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0535	ppb	0.1626	304.2	-18.6132
Al 308.215	3.2065	ppb	0.8877	27.7	458.802
As 188.980	0.6644	ppb	1.1530	173.5	-6.7743
B 249.678	1.8959	ppb	0.0299	1.6	90.0211
Ba 389.178	-0.2753	ppb	0.7197	261.5	-61.7711
Be 313.042	0.0034	ppb	0.0060	176.8	-285.710
Ca 370.602	21.14	ppb	3.595	17.0	62.00
Cd 226.502	-0.0067	ppb	0.1526	2267.8	16.9382
Co 228.615	0.3012	ppb	0.1913	63.5	1.6266
Cr 267.716	0.4159	ppb	0.0773	18.6	57.2294
Cu 324.754	-0.2419	ppb	0.0369	15.2	216.374
Fe 271.441	8.1059	ppb	2.8335	35.0	30.2401
K 766.491	6.9736	ppb	0.0427	0.6	538.339
Mg 279.078	1.5515	ppb	2.8682	184.9	29.7216
Mn 257.610	0.1918	ppb	0.0067	3.5	120.272
Mo 202.032	0.5213	ppb	0.2678	51.4	9.3040
Na 330.237	65.8645	ppb	143.383	217.7	31.8083
Ni 231.604	0.4874	ppb	0.7545	154.8	-3.5392
Pb 220.353	1.1308	ppb	0.0445	3.9	11.6701
Sb 206.834	-0.2498	ppb	0.7825	313.2	-4.9148
Se 196.026	1.4630	ppb	2.0339	139.0	-0.4398
Sn 189.925	6.0633	ppb	1.3378	22.1	-0.7535
Sr 216.596	0.0581	ppb	0.1445	248.6	4.8924
Ti 334.941	0.0787	ppb	0.0211	26.9	30.0977
Tl 190.794	1.5447	ppb	0.4665	30.2	-7.7560
V 292.401	-0.2841	ppb	0.0318	11.2	-16.3734
Zn 206.200	1.5720	ppb	1.3144	83.6	3.2007

lcs 680-359032/2-a (Samp) **11/20/2014, 5:48:53 PM** **Rack 1, Tube 36**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.5172	51.8599	52.0342
Al 308.215	4894.95	4839.89	4820.82
As 188.980	105.499	101.176	104.533

Label	Replicates Concentration		
B 249.678	189.270	189.468	191.358
Ba 389.178	103.187	101.716	102.259
Be 313.042	52.8118	52.5070	52.5142
Ca 370.602	4927	4906	4924
Cd 226.502	52.5504	52.3699	52.5067
Co 228.615	52.5801	52.0528	52.9814
Cr 267.716	105.989	106.014	105.871
Cu 324.754	105.844	105.180	106.069
Fe 271.441	4900.03	4880.88	4898.01
K 766.491	4947.73	4934.88	4932.16
Mg 279.078	4853.08	4840.41	4849.68
Mn 257.610	537.130	535.282	535.578
Mo 202.032	98.7475	97.3351	98.7941
Na 330.237	4988.02	4791.65	4823.42
Ni 231.604	105.657	104.873	102.290
Pb 220.353	493.357	493.602	489.107
Sb 206.834	48.9216	52.5757	52.2775
Se 196.026	89.5191	92.1492	99.3816
Sn 189.925	201.441	202.926	203.626
Sr 216.596	97.6773	96.8150	97.7860
Ti 334.941	100.104	99.0031	99.5812
Tl 190.794	38.0126	41.6249	41.3590
V 292.401	99.2289	99.0421	98.7180
Zn 206.200	104.487	106.311	105.861

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.1371	ppb	0.3405	0.7	4258.63
Al 308.215	4851.89	ppb	38.4924	0.8	33385.0
As 188.980	103.736	ppb	2.2694	2.2	50.6079
B 249.678	190.032	ppb	1.1528	0.6	3205.55
Ba 389.178	102.387	ppb	0.7436	0.7	2126.68
Be 313.042	52.6110	ppb	0.1740	0.3	95795.0
Ca 370.602	4919	ppb	11.40	0.2	13112
Cd 226.502	52.4757	ppb	0.0942	0.2	2220.19
Co 228.615	52.5381	ppb	0.4657	0.9	604.183
Cr 267.716	105.958	ppb	0.0765	0.1	5744.97
Cu 324.754	105.698	ppb	0.4620	0.4	7428.76
Fe 271.441	4892.97	ppb	10.5220	0.2	8095.12
K 766.491	4938.26	ppb	8.3153	0.2	205722
Mg 279.078	4847.72	ppb	6.5604	0.1	13267.8
Mn 257.610	535.997	ppb	0.9926	0.2	108528
Mo 202.032	98.2922	ppb	0.8292	0.8	672.601
Na 330.237	4867.70	ppb	105.405	2.2	241.863
Ni 231.604	104.273	ppb	1.7615	1.7	310.756
Pb 220.353	492.022	ppb	2.5275	0.5	807.653
Sb 206.834	51.2582	ppb	2.0291	4.0	65.1488
Se 196.026	93.6833	ppb	5.1071	5.5	39.4872
Sn 189.925	202.664	ppb	1.1156	0.6	148.249
Sr 216.596	97.4261	ppb	0.5320	0.5	1259.82
Ti 334.941	99.5628	ppb	0.5507	0.6	29577.4
Tl 190.794	40.3322	ppb	2.0132	5.0	32.6766
V 292.401	98.9963	ppb	0.2585	0.3	2558.43
Zn 206.200	105.553	ppb	0.9505	0.9	119.002

Cont Calib Verif (CCV) **11/20/2014, 5:53:08 PM** **Rack 1, Tube 37**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	501.631	502.131	500.059
Al 308.215	4883.87	4895.31	4876.74
As 188.980	495.220	496.936	503.308
B 249.678	493.402	496.621	497.259
Ba 389.178	5218.30	5225.79	5217.15
Be 313.042	524.112	525.093	524.014
Ca 370.602	4984	5013	4986
Cd 226.502	525.559	526.812	525.642
Co 228.615	529.998	531.644	528.759
Cr 267.716	5230.89	5248.46	5227.50
Cu 324.754	5354.99	5353.33	5332.00
Fe 271.441	4944.98	4972.85	4950.38
K 766.491	10172.1	10209.0	10149.2
Mg 279.078	4965.68	4984.50	4970.66
Mn 257.610	5305.67	5314.70	5311.68
Mo 202.032	495.196	498.552	495.978
Na 330.237	7761.96	7686.07	7521.65
Ni 231.604	2647.09	2634.25	2648.35
Pb 220.353	499.486	502.305	498.939
Sb 206.834	984.742	989.645	980.183
Se 196.026	4929.27	4951.82	4916.99
Sn 189.925	4962.47	4988.73	4957.77
Sr 216.596	2488.57	2499.65	2493.29
Ti 334.941	493.098	495.720	493.857
Tl 190.794	5036.17	5059.48	5036.09
V 292.401	4944.69	4967.46	4948.44
Zn 206.200	2650.81	2639.78	2637.49

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	501.274	ppb	1.0812	0.2	41109.2	100.25473
Al 308.215	4885.30	ppb	9.3673	0.2	34270.2	97.70609
As 188.980	498.488	ppb	4.2615	0.9	270.471	99.69758
B 249.678	495.761	ppb	2.0672	0.4	8299.33	99.15218
Ba 389.178	5220.41	ppb	4.6949	0.1	110553	104.40826
Be 313.042	524.406	ppb	0.5964	0.1	957744	104.88127
Ca 370.602	4994	ppb	15.96	0.3	13627	99.88502
Cd 226.502	526.004	ppb	0.7004	0.1	21938.6	105.20088
Co 228.615	530.134	ppb	1.4474	0.3	6120.52	106.02677
Cr 267.716	5235.62	ppb	11.2514	0.2	281975	104.71238
Cu 324.754	5346.77	ppb	12.8226	0.2	363979	106.93546
Fe 271.441	4956.07	ppb	14.7794	0.3	8300.10	99.12138
K 766.491	10176.8	ppb	30.1703	0.3	423688	101.76771
Mg 279.078	4973.61	ppb	9.7487	0.2	13512.7	99.47224
Mn 257.610	5310.68	ppb	4.5944	0.1	1074142	106.21369
Mo 202.032	496.575	ppb	1.7562	0.4	3370.73	99.31503
Na 330.237	7656.56	ppb	122.843	1.6	316.523	102.08752
Ni 231.604	2643.23	ppb	7.7994	0.3	7991.36	105.72925
Pb 220.353	500.244	ppb	1.8064	0.4	825.338	100.04871
Sb 206.834	984.857	ppb	4.7321	0.5	1396.01	98.48565
Se 196.026	4932.69	ppb	17.6664	0.4	2127.33	98.65387
Sn 189.925	4969.66	ppb	16.6819	0.3	3761.08	99.39318
Sr 216.596	2493.83	ppb	5.5576	0.2	31954.8	99.75334

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	494.225	ppb	1.3491	0.3	146758	98.84508
Tl 190.794	5043.91	ppb	13.4791	0.3	5323.41	100.87828
V 292.401	4953.53	ppb	12.2091	0.2	129370	99.07059
Zn 206.200	2642.69	ppb	7.1242	0.3	2943.60	105.70779

Cont Calib Blank (CCB) **11/20/2014, 5:57:24 PM** **Rack 1, Tube 38**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0145	-0.1025u	0.0497
Al 308.215	-0.0577u	2.6003	0.1222
As 188.980	3.7030	1.9851	1.8292
B 249.678	8.0654	7.5899	6.0976
Ba 389.178	0.2292	-0.0193u	-0.2365u
Be 313.042	0.0114	0.0110	0.0118
Ca 370.602	6.200	3.980	6.612
Cd 226.502	0.1441	0.2218	-0.0203u
Co 228.615	-0.0864u	-0.0795u	0.2147
Cr 267.716	0.0883	0.0513	0.3114
Cu 324.754	0.3191	-0.1189u	0.0886
Fe 271.441	0.8056	4.9434	3.3130
K 766.491	1.2163	1.9969	1.4366
Mg 279.078	0.1932	1.5373	-0.4146u
Mn 257.610	0.1407	0.1696	0.1717
Mo 202.032	0.3108	0.3438	0.7090
Na 330.237	-30.3125u	-28.5238u	-30.8763u
Ni 231.604	0.8694	-0.2078u	0.1559
Pb 220.353	2.0979	3.3855	2.5946
Sb 206.834	4.2723	1.3149	4.0498
Se 196.026	-6.0802u	-0.8131u	-1.3784u
Sn 189.925	4.8523	-1.1872u	4.5834
Sr 216.596	0.3689	0.3329	-0.0195u
Ti 334.941	0.1062	0.0767	0.0336
Tl 190.794	1.1376	2.2214	-1.5570u
V 292.401	-0.0740u	0.0498	-0.1104u
Zn 206.200	0.7364	0.4378	-0.2334u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0128	ppb	0.0797	624.1	-24.0638	-0.01277
Al 308.215	0.8882	ppb	1.4854	167.2	443.105	0.88823
As 188.980	2.5058	ppb	1.0397	41.5	-5.7482	2.50576
B 249.678	7.2509	ppb	1.0267	14.2	179.093	7.25093
Ba 389.178	-0.0089	ppb	0.2330	2629.2	-56.1366	-0.00886
Be 313.042	0.0114	ppb	0.0004	3.4	-271.014	0.01142
Ca 370.602	5.597	ppb	1.416	25.3	20.67	5.59714
Cd 226.502	0.1152	ppb	0.1236	107.3	22.0001	0.11523
Co 228.615	0.0163	ppb	0.1719	1056.2	-1.6582	0.01627
Cr 267.716	0.1503	ppb	0.1407	93.6	42.9191	0.15032
Cu 324.754	0.0963	ppb	0.2191	227.6	239.374	0.09625
Fe 271.441	3.0207	ppb	2.0844	69.0	21.8235	3.02066
K 766.491	1.5500	ppb	0.4024	26.0	312.669	1.54996
Mg 279.078	0.4386	ppb	0.9988	227.7	26.6799	0.43862
Mn 257.610	0.1607	ppb	0.0173	10.8	113.941	0.16066
Mo 202.032	0.4545	ppb	0.2210	48.6	8.8504	0.45453

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	-29.9043	ppb	1.2282	4.1	27.5797	-29.90425
Ni 231.604	0.2725	ppb	0.5480	201.1	-4.1892	0.27249
Pb 220.353	2.6927	ppb	0.6494	24.1	14.2015	2.69266
Sb 206.834	3.2124	ppb	1.6470	51.3	-0.1992	3.21235
Se 196.026	-2.7572	ppb	2.8916	104.9	-2.2598	-2.75723
Sn 189.925	2.7495	ppb	3.4120	124.1	-3.2649	2.74951
Sr 216.596	0.2274	ppb	0.2146	94.4	7.0568	0.22744
Ti 334.941	0.0721	ppb	0.0365	50.6	28.1608	0.07215
Tl 190.794	0.6006	ppb	1.9455	323.9	-8.7518	0.60065
V 292.401	-0.0449	ppb	0.0840	187.3	-10.0843	-0.04486
Zn 206.200	0.3136	ppb	0.4967	158.4	1.7952	0.31358

680-107310-b-6-a (Samp) **11/20/2014, 6:01:39 PM** **Rack 1, Tube 39**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.6171	1.4164	1.4874
Al 308.215	129767	129692	129504
As 188.980	227.167	226.537	223.110
B 249.678	34.6172u	34.6280u	33.5672u
Ba 389.178	2645.30	2642.34	2637.10
Be 313.042	12.2975	12.2726	12.2720
Ca 370.602	57338	57270	57328
Cd 226.502	17.5999	18.1718	17.8396
Co 228.615	112.627	113.369	112.172
Cr 267.716	403.286	403.371	402.853
Cu 324.754	530.052	530.405	528.869
Fe 271.441	349450	348815	348322
K 766.491	14460.6	14429.3	14394.0
Mg 279.078	14287.5	14302.9	14289.8
Mn 257.610	15926.4	15859.7	15874.3
Mo 202.032	19.4592	19.0008	19.3252
Na 330.237	568.882u	676.513u	524.543u
Ni 231.604	183.076	186.719	188.771
Pb 220.353	1781.91	1790.14	1796.68
Sb 206.834	8.9536	5.2690	13.6758
Se 196.026	1.0213	10.7327	9.1144
Sn 189.925	108.243	108.673	110.104
Sr 216.596	263.126	265.411	265.649
Ti 334.941	879.375	877.021	876.052
Tl 190.794	7.9095u	10.5945u	7.8183u
V 292.401	406.597	405.255	404.761
Zn 206.200	7575.32	7617.53	7601.93

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.5070	ppb	0.1017	6.8	113.988
Al 308.215	129654	ppb	135.947	0.1	880556
As 188.980	225.605	ppb	2.1835	1.0	116.641
B 249.678	34.2708	ppb	0.6093	1.8	-178.948
Ba 389.178	2641.58	ppb	4.1535	0.2	56184.8
Be 313.042	12.2807	ppb	0.0146	0.1	22173.9
Ca 370.602	57312	ppb	37.05	0.1	149979
Cd 226.502	17.8704	ppb	0.2872	1.6	2037.22
Co 228.615	112.722	ppb	0.6040	0.5	1341.79

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	403.170	ppb	0.2782	0.1	21989.9
Cu 324.754	529.775	ppb	0.8041	0.2	36414.2
Fe 271.441	348862	ppb	565.399	0.2	575488
K 766.491	14428.0	ppb	33.3188	0.2	600574
Mg 279.078	14293.4	ppb	8.3066	0.1	38729.9
Mn 257.610	15886.8	ppb	35.0342	0.2	3214035
Mo 202.032	19.2617	ppb	0.2357	1.2	119.686
Na 330.237	589.979	ppb	78.1504	13.2	-169.483
Ni 231.604	186.188	ppb	2.8843	1.5	587.281
Pb 220.353	1789.58	ppb	7.4006	0.4	2936.07
Sb 206.834	9.2995	ppb	4.2141	45.3	18.9936
Se 196.026	6.9561	ppb	5.2030	74.8	8.3176
Sn 189.925	109.007	ppb	0.9740	0.9	77.2646
Sr 216.596	264.729	ppb	1.3927	0.5	3908.94
Ti 334.941	877.483	ppb	1.7093	0.2	260617
Tl 190.794	8.7741	ppb	1.5772	18.0	-44.1545
V 292.401	405.537	ppb	0.9501	0.2	10467.9
Zn 206.200	7598.26	ppb	21.3418	0.3	8479.03

680-107310-b-6-aSD^5 (Samp) **11/20/2014, 6:05:54 PM** **Rack 1, Tube 40**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.4515	0.2548	0.4459
Al 308.215	26384.0	26339.9	26348.0
As 188.980	50.9970	47.6185	46.6428
B 249.678	7.6407u	8.1754u	7.4419u
Ba 389.178	548.933	548.689	548.622
Be 313.042	2.5111	2.5050	2.5243
Ca 370.602	11877	11875	11876
Cd 226.502	3.4765	3.4959	3.5509
Co 228.615	23.5177	23.9678	23.7751
Cr 267.716	84.3132	84.5975	84.4328
Cu 324.754	106.045	106.257	106.578
Fe 271.441	74079.2	74070.0	74064.3
K 766.491	2781.36	2784.32	2776.77
Mg 279.078	3034.92	3028.49	3021.96
Mn 257.610	3412.90	3402.44	3411.80
Mo 202.032	4.2658	3.6118	3.9443
Na 330.237	36.3373u	153.054u	63.9514u
Ni 231.604	38.7414	39.6603	40.8344
Pb 220.353	386.024	380.818	382.019
Sb 206.834	1.4992	2.4702	-0.5612
Se 196.026	7.2850	8.2555	0.8459
Sn 189.925	20.8333	23.0617	20.6720
Sr 216.596	54.7758	55.5837	55.1428
Ti 334.941	183.115	182.654	182.871
Tl 190.794	5.4268u	1.3597u	2.7290u
V 292.401	84.1968	83.9829	84.6972
Zn 206.200	1628.05	1622.96	1618.86

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3841	ppb	0.1120	29.2	11.5839
Al 308.215	26357.3	ppb	23.4998	0.1	179356

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	48.4194	ppb	2.2849	4.7	19.4270
B 249.678	7.7527	ppb	0.3793	4.9	16.1056
Ba 389.178	548.748	ppb	0.1635	0.0	11628.5
Be 313.042	2.5135	ppb	0.0098	0.4	4306.36
Ca 370.602	11876	ppb	0.8730	0.0	31068
Cd 226.502	3.5077	ppb	0.0386	1.1	434.115
Co 228.615	23.7535	ppb	0.2259	1.0	281.297
Cr 267.716	84.4478	ppb	0.1427	0.2	4634.40
Cu 324.754	106.293	ppb	0.2682	0.3	7493.78
Fe 271.441	74071.2	ppb	7.5010	0.0	122202
K 766.491	2780.82	ppb	3.8011	0.1	115954
Mg 279.078	3028.46	ppb	6.4793	0.2	8225.56
Mn 257.610	3409.05	ppb	5.7490	0.2	689742
Mo 202.032	3.9406	ppb	0.3270	8.3	28.9439
Na 330.237	84.4476	ppb	60.9980	72.2	-15.2424
Ni 231.604	39.7454	ppb	1.0491	2.6	121.388
Pb 220.353	382.954	ppb	2.7261	0.7	636.010
Sb 206.834	1.1361	ppb	1.5480	136.3	-0.7241
Se 196.026	5.4621	ppb	4.0271	73.7	2.6496
Sn 189.925	21.5223	ppb	1.3356	6.2	10.9625
Sr 216.596	55.1674	ppb	0.4045	0.7	819.899
Ti 334.941	182.880	ppb	0.2307	0.1	54321.9
Tl 190.794	3.1718	ppb	2.0694	65.2	-15.3661
V 292.401	84.2923	ppb	0.3666	0.4	2168.26
Zn 206.200	1623.29	ppb	4.6052	0.3	1812.62

680-107310-b-6-aPDS (Samp) **11/20/2014, 6:10:09 PM** **Rack 1, Tube 41**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	100.309	99.6525	100.551
Al 308.215	129921	129716	129649
As 188.980	330.938	323.980	321.004
B 249.678	218.564	220.130	220.306
Ba 389.178	2699.28	2697.11	2698.63
Be 313.042	113.561	113.452	113.621
Ca 370.602	66609	66545	66635
Cd 226.502	115.308	115.154	114.540
Co 228.615	210.982	211.315	206.330
Cr 267.716	500.498	499.452	500.348
Cu 324.754	636.456	631.368	624.545
Fe 271.441	353163	352640	353969
K 766.491	24974.5	24926.7	25007.7
Mg 279.078	23556.8	23539.0	23541.1
Mn 257.610	16672.4	16616.5	16651.8
Mo 202.032	113.823	113.122	112.800
Na 330.237	9305.98	9662.90	9388.69
Ni 231.604	282.127	280.903	281.696
Pb 220.353	1862.60	1855.36	1848.86
Sb 206.834	101.457	99.5187	104.072
Se 196.026	105.830	102.951	97.7464
Sn 189.925	189.807	191.180	201.725
Sr 216.596	356.694	355.195	353.761
Ti 334.941	964.031	962.493	964.208

Label	Replicates Concentration		
Tl 190.794	25.3920u	24.8876u	26.8631u
V 292.401	498.806	497.682	498.362
Zn 206.200	7623.53	7607.52	7578.90

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	100.171	ppb	0.4648	0.5	8218.99
Al 308.215	129762	ppb	141.804	0.1	881301
As 188.980	325.307	ppb	5.0979	1.6	172.150
B 249.678	219.667	ppb	0.9588	0.4	2892.95
Ba 389.178	2698.34	ppb	1.1114	0.0	57409.1
Be 313.042	113.545	ppb	0.0861	0.1	207127
Ca 370.602	66597	ppb	46.34	0.1	174715
Cd 226.502	115.001	ppb	0.4062	0.4	6097.74
Co 228.615	209.542	ppb	2.7872	1.3	2458.55
Cr 267.716	500.100	ppb	0.5655	0.1	27214.3
Cu 324.754	630.790	ppb	5.9765	0.9	43291.3
Fe 271.441	353257	ppb	669.377	0.2	582750
K 766.491	24969.6	ppb	40.7117	0.2	1039197
Mg 279.078	23545.6	ppb	9.7051	0.0	64012.3
Mn 257.610	16646.9	ppb	28.2933	0.2	3367837
Mo 202.032	113.249	ppb	0.5231	0.5	757.332
Na 330.237	9452.52	ppb	186.825	2.0	222.848
Ni 231.604	281.575	ppb	0.6206	0.2	876.008
Pb 220.353	1855.61	ppb	6.8773	0.4	3043.43
Sb 206.834	101.683	ppb	2.2852	2.2	144.744
Se 196.026	102.176	ppb	4.0971	4.0	49.5864
Sn 189.925	194.237	ppb	6.5209	3.4	141.863
Sr 216.596	355.217	ppb	1.4663	0.4	5076.64
Ti 334.941	963.577	ppb	0.9435	0.1	286196
Tl 190.794	25.7142	ppb	1.0264	4.0	-26.4553
V 292.401	498.283	ppb	0.5663	0.1	12872.9
Zn 206.200	7603.31	ppb	22.6107	0.3	8484.32

680-107310-b-6-b ms (Samp) **11/20/2014, 6:14:25 PM** **Rack 1, Tube 42**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.6231	51.8382	51.7645
Al 308.215	145182	145254	145200
As 188.980	344.728	337.026	332.751
B 249.678	156.788	157.233	157.417
Ba 389.178	1830.64	1828.55	1825.01
Be 313.042	62.0258	61.9523	61.7484
Ca 370.602	59452	59407	59611
Cd 226.502	65.3918	65.6364	64.9731
Co 228.615	140.685	141.802	141.665
Cr 267.716	558.302	558.761	557.781
Cu 324.754	608.970	609.095	614.931
Fe 271.441	361406	360670	361012
K 766.491	19536.3	19514.9	19512.3
Mg 279.078	18870.0	18897.8	18892.1
Mn 257.610	10972.0	10934.7	10923.2
Mo 202.032	105.887	105.680	106.537
Na 330.237	5147.78	5459.43	5630.82

Label	Replicates Concentration		
Ni 231.604	277.223	276.907	277.496
Pb 220.353	2078.28	2090.86	2092.78
Sb 206.834	25.5217	26.7928	27.6734
Se 196.026	96.3179	84.5616	83.5199
Sn 189.925	291.381	290.094	294.735
Sr 216.596	346.856	348.024	344.992
Ti 334.941	944.352	944.322	942.140
Tl 190.794	43.4207u	41.2827u	42.3441u
V 292.401	545.824	546.185	546.630
Zn 206.200	7016.49	7054.21	7049.52

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.0752	ppb	0.4759	0.9	4238.80
Al 308.215	145212	ppb	37.3288	0.0	986177
As 188.980	338.168	ppb	6.0699	1.8	179.275
B 249.678	157.146	ppb	0.3233	0.2	1834.92
Ba 389.178	1828.07	ppb	2.8444	0.2	38970.8
Be 313.042	61.9088	ppb	0.1437	0.2	112818
Ca 370.602	59490	ppb	107.3	0.2	155573
Cd 226.502	65.3338	ppb	0.3354	0.5	4058.07
Co 228.615	141.384	ppb	0.6092	0.4	1672.56
Cr 267.716	558.282	ppb	0.4905	0.1	30323.8
Cu 324.754	610.999	ppb	3.4060	0.6	41946.9
Fe 271.441	361029	ppb	368.148	0.1	595562
K 766.491	19521.2	ppb	13.1767	0.1	812496
Mg 279.078	18886.6	ppb	14.6651	0.1	51385.9
Mn 257.610	10943.3	ppb	25.5055	0.2	2214346
Mo 202.032	106.035	ppb	0.4473	0.4	707.947
Na 330.237	5412.67	ppb	244.888	4.5	52.6918
Ni 231.604	277.209	ppb	0.2947	0.1	863.621
Pb 220.353	2087.31	ppb	7.8785	0.4	3418.22
Sb 206.834	26.6626	ppb	1.0817	4.1	43.4296
Se 196.026	88.1331	ppb	7.1073	8.1	42.3652
Sn 189.925	292.070	ppb	2.3960	0.8	216.007
Sr 216.596	346.624	ppb	1.5291	0.4	4974.59
Ti 334.941	943.605	ppb	1.2686	0.1	280260
Tl 190.794	42.3492	ppb	1.0690	2.5	-12.9662
V 292.401	546.213	ppb	0.4037	0.1	14123.6
Zn 206.200	7040.07	ppb	20.5603	0.3	7854.49

680-107310-b-6-c msd (Samp) **11/20/2014, 6:18:40 PM** **Rack 1, Tube 43**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	51.6554	51.9026	50.9937
Al 308.215	140778	140575	140429
As 188.980	351.333	350.712	347.821
B 249.678	154.862	156.046	154.631
Ba 389.178	2007.04	2005.75	2009.37
Be 313.042	60.5030	60.4453	60.5546
Ca 370.602	60585	60645	60776
Cd 226.502	64.9791	64.9229	64.4163
Co 228.615	141.310	141.221	141.903
Cr 267.716	520.092	519.074	521.036

Label	Replicates Concentration		
Cu 324.754	610.449	607.220	610.639
Fe 271.441	364555	363345	364834
K 766.491	19337.5	19375.2	19345.7
Mg 279.078	18342.7	18275.6	18334.2
Mn 257.610	12639.5	12595.4	12614.9
Mo 202.032	105.258	105.570	105.804
Na 330.237	5306.31	4919.20u	5362.89
Ni 231.604	283.702	283.124	286.956
Pb 220.353	2155.84	2156.47	2147.57
Sb 206.834	23.0774	22.4396	28.0076
Se 196.026	91.2747	88.1965	84.4987
Sn 189.925	290.075	275.870	291.476
Sr 216.596	344.075	341.613	345.165
Ti 334.941	918.660	917.431	918.770
Tl 190.794	43.1557u	43.0984u	40.1825u
V 292.401	522.221	521.595	523.085
Zn 206.200	7541.10	7507.69	7523.03

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.5172	ppb	0.4699	0.9	4201.09
Al 308.215	140594	ppb	175.344	0.1	954828
As 188.980	349.956	ppb	1.8745	0.5	185.828
B 249.678	155.180	ppb	0.7594	0.5	1795.86
Ba 389.178	2007.39	ppb	1.8365	0.1	42770.1
Be 313.042	60.5010	ppb	0.0547	0.1	110244
Ca 370.602	60668	ppb	97.75	0.2	158713
Cd 226.502	64.7728	ppb	0.3100	0.5	4044.76
Co 228.615	141.478	ppb	0.3705	0.3	1673.18
Cr 267.716	520.067	ppb	0.9812	0.2	28275.5
Cu 324.754	609.436	ppb	1.9212	0.3	41842.0
Fe 271.441	364245	ppb	791.855	0.2	600866
K 766.491	19352.8	ppb	19.7957	0.1	805489
Mg 279.078	18317.5	ppb	36.5487	0.2	49796.1
Mn 257.610	12616.6	ppb	22.0873	0.2	2552756
Mo 202.032	105.544	ppb	0.2743	0.3	704.518
Na 330.237	5196.13	ppb	241.491	4.6	33.1196
Ni 231.604	284.594	ppb	2.0660	0.7	886.192
Pb 220.353	2153.29	ppb	4.9675	0.2	3525.78
Sb 206.834	24.5082	ppb	3.0473	12.4	40.0602
Se 196.026	87.9900	ppb	3.3927	3.9	42.6935
Sn 189.925	285.807	ppb	8.6345	3.0	211.260
Sr 216.596	343.618	ppb	1.8193	0.5	4939.89
Ti 334.941	918.287	ppb	0.7434	0.1	272742
Tl 190.794	42.1455	ppb	1.7003	4.0	-12.7989
V 292.401	522.301	ppb	0.7480	0.1	13498.2
Zn 206.200	7523.94	ppb	16.7245	0.2	8395.19

680-107310-b-1-a (Samp) **11/20/2014, 6:22:56 PM** **Rack 1, Tube 44**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	5.9183	4.4257	5.7399
Al 308.215	127435	127470	127374
As 188.980	539.244	536.286	538.260

Label	Replicates Concentration		
B 249.678	105.993	107.356	106.549
Ba 389.178	3324.17	3324.42	3327.75
Be 313.042	16.9920	16.9684	16.9984
Ca 370.602	134100	134023	134061
Cd 226.502	29.1860	29.0770	29.2064
Co 228.615	134.303	133.663	134.979
Cr 267.716	500.104	500.320	499.566
Cu 324.754	872.846	876.990	871.516
Fe 271.441	683742	681796	682826
K 766.491	21005.4	20918.9	20931.9
Mg 279.078	30578.8	30198.7	30414.9
Mn 257.610	27085.7	26579.8	27039.7
Mo 202.032	39.6025	39.2673	39.3302
Na 330.237	1803.44u	2038.12u	2033.32u
Ni 231.604	374.657	371.967	372.118
Pb 220.353	4972.78	4963.59	4983.79
Sb 206.834	9.7620	2.9127	7.1984
Se 196.026	-5.2378	-5.3751	-2.2065
Sn 189.925	198.863	206.208	207.365
Sr 216.596	424.776	425.852	425.791
Ti 334.941	2112.69	2111.47	2113.58
Tl 190.794	20.3064u	17.1348u	18.3967u
V 292.401	532.773	533.037	532.050
Zn 206.200	9205.61	9180.37	9192.47

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	5.3613	ppb	0.8151	15.2	423.803
Al 308.215	127426	ppb	48.8731	0.0	865488
As 188.980	537.930	ppb	1.5068	0.3	288.829
B 249.678	106.632	ppb	0.6853	0.6	250.583
Ba 389.178	3325.44	ppb	1.9975	0.1	70947.5
Be 313.042	16.9862	ppb	0.0158	0.1	30783.3
Ca 370.602	134061	ppb	38.54	0.0	351884
Cd 226.502	29.1565	ppb	0.0696	0.2	3728.16
Co 228.615	134.315	ppb	0.6582	0.5	1639.86
Cr 267.716	499.997	ppb	0.3883	0.1	27418.3
Cu 324.754	873.784	ppb	2.8549	0.3	59954.0
Fe 271.441	682788	ppb	973.378	0.1	1126308
K 766.491	20952.0	ppb	46.6730	0.2	872031
Mg 279.078	30397.5	ppb	190.637	0.6	82536.9
Mn 257.610	26901.7	ppb	279.766	1.0	5442700
Mo 202.032	39.4000	ppb	0.1782	0.5	240.558
Na 330.237	1958.29	ppb	134.131	6.8	-213.221
Ni 231.604	372.914	ppb	1.5114	0.4	1180.12
Pb 220.353	4973.39	ppb	10.1109	0.2	8121.78
Sb 206.834	6.6244	ppb	3.4605	52.2	22.1590
Se 196.026	-4.2731	ppb	1.7911	41.9	8.6829
Sn 189.925	204.145	ppb	4.6112	2.3	149.369
Sr 216.596	425.473	ppb	0.6047	0.1	6464.16
Ti 334.941	2112.58	ppb	1.0600	0.1	627403
Tl 190.794	18.6126	ppb	1.5968	8.6	-78.6500
V 292.401	532.620	ppb	0.5108	0.1	13675.7
Zn 206.200	9192.82	ppb	12.6217	0.1	10248.6

680-107310-b-2-a (Samp) **11/20/2014, 6:27:13 PM** **Rack 1, Tube 45**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	3.2712	2.9801	3.4526
Al 308.215	126549	126450	126275
As 188.980	394.059	394.282	398.470
B 249.678	96.4483u	97.6762u	97.0933u
Ba 389.178	2114.89	2110.85	2105.69
Be 313.042	12.3714	12.3497	12.3547
Ca 370.602	158866	158616	160133
Cd 226.502	22.3871	21.9028	21.6658
Co 228.615	114.711	114.273	115.737
Cr 267.716	1063.71	1063.49	1062.95
Cu 324.754	1626.99	1621.77	1614.91
Fe 271.441	747498	749034	749987
K 766.491	18968.2	18979.5	18946.0
Mg 279.078	22791.8	22796.4	22763.2
Mn 257.610	15468.8	15472.4	15472.0
Mo 202.032	108.582	107.874	107.403
Na 330.237	1210.65u	1240.70u	1127.06u
Ni 231.604	541.313	535.774	543.604
Pb 220.353	3538.39	3543.71	3559.08
Sb 206.834	12.6774	14.7271	16.2677
Se 196.026	2.2803	1.6474	-11.4566
Sn 189.925	176.510	175.203	164.672
Sr 216.596	488.272	488.984	486.702
Ti 334.941	1411.57	1409.70	1406.68
Tl 190.794	9.3279u	9.9987u	6.3838u
V 292.401	467.644	465.638	466.554
Zn 206.200	6532.80	6515.47	6525.97

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	3.2346	ppb	0.2383	7.4	178.553
Al 308.215	126425	ppb	139.114	0.1	858688
As 188.980	395.604	ppb	2.4847	0.6	209.140
B 249.678	97.0726	ppb	0.6142	0.6	-62.2714
Ba 389.178	2110.48	ppb	4.6151	0.2	45245.2
Be 313.042	12.3586	ppb	0.0114	0.1	22328.1
Ca 370.602	159205	ppb	813.4	0.5	417631
Cd 226.502	21.9852	ppb	0.3677	1.7	3674.53
Co 228.615	114.907	ppb	0.7513	0.7	1404.90
Cr 267.716	1063.38	ppb	0.3881	0.0	57735.8
Cu 324.754	1621.22	ppb	6.0567	0.4	110840
Fe 271.441	748840	ppb	1255.67	0.2	1235259
K 766.491	18964.6	ppb	16.9952	0.1	789335
Mg 279.078	22783.8	ppb	18.0032	0.1	61955.9
Mn 257.610	15471.0	ppb	1.9944	0.0	3131139
Mo 202.032	107.953	ppb	0.5939	0.6	702.813
Na 330.237	1192.80	ppb	58.8829	4.9	-209.792
Ni 231.604	540.230	ppb	4.0260	0.7	1691.96
Pb 220.353	3547.06	ppb	10.7471	0.3	5812.64
Sb 206.834	14.5574	ppb	1.8011	12.4	39.9201
Se 196.026	-2.5096	ppb	7.7548	309.0	7.5526
Sn 189.925	172.128	ppb	6.4902	3.8	125.103
Sr 216.596	487.986	ppb	1.1675	0.2	7364.83

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	1409.32	ppb	2.4631	0.2	418590
Tl 190.794	8.5701	ppb	1.9229	22.4	-105.312
V 292.401	466.612	ppb	1.0039	0.2	11880.5
Zn 206.200	6524.75	ppb	8.7316	0.1	7263.39

680-107310-b-3-a (Samp) **11/20/2014, 6:31:29 PM** **Rack 1, Tube 46**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	1.8381	1.9377	2.1336
Al 308.215	120032	119920	119845
As 188.980	224.401	223.705	231.192
B 249.678	59.2344	59.2483	59.0853
Ba 389.178	3282.50	3278.70	3280.71
Be 313.042	14.3344	14.3166	14.3159
Ca 370.602	71622	71533	71554
Cd 226.502	19.6239	19.7774	19.4555
Co 228.615	105.831	105.561	105.233
Cr 267.716	717.342	715.775	715.096
Cu 324.754	915.636	912.302	917.524
Fe 271.441	407290	406503	404967
K 766.491	14089.0	14152.0	14134.5
Mg 279.078	15100.1	15113.5	15088.3
Mn 257.610	14835.6	14742.2	14774.9
Mo 202.032	25.6223	25.8295	26.4297
Na 330.237	780.908u	824.405u	723.866u
Ni 231.604	1196.55	1199.38	1186.11
Pb 220.353	2791.55	2771.68	2775.82
Sb 206.834	14.1123	10.9071	9.5633
Se 196.026	3.7969	1.7221	3.5868
Sn 189.925	139.296	140.240	143.481
Sr 216.596	419.496	419.432	419.616
Ti 334.941	1901.02	1907.23	1903.99
Tl 190.794	10.7987u	4.1755u	9.6540u
V 292.401	530.862	529.298	530.738
Zn 206.200	6826.71	6823.36	6818.36

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	1.9698	ppb	0.1503	7.6	132.017
Al 308.215	119932	ppb	94.1496	0.1	814592
As 188.980	226.433	ppb	4.1365	1.8	116.786
B 249.678	59.1893	ppb	0.0904	0.2	102.718
Ba 389.178	3280.64	ppb	1.9034	0.1	69765.6
Be 313.042	14.3223	ppb	0.0105	0.1	25910.7
Ca 370.602	71570	ppb	46.64	0.1	187790
Cd 226.502	19.6190	ppb	0.1610	0.8	2317.90
Co 228.615	105.542	ppb	0.2993	0.3	1285.36
Cr 267.716	716.071	ppb	1.1522	0.2	38864.3
Cu 324.754	915.154	ppb	2.6444	0.3	62656.9
Fe 271.441	406254	ppb	1181.59	0.3	670157
K 766.491	14125.2	ppb	32.4954	0.2	587975
Mg 279.078	15100.6	ppb	12.6274	0.1	40963.6
Mn 257.610	14784.2	ppb	47.4058	0.3	2991226
Mo 202.032	25.9605	ppb	0.4193	1.6	162331

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	776.393	ppb	50.4216	6.5	-158.606
Ni 231.604	1194.01	ppb	6.9920	0.6	3641.30
Pb 220.353	2779.68	ppb	10.4853	0.4	4544.60
Sb 206.834	11.5276	ppb	2.3371	20.3	26.7840
Se 196.026	3.0353	ppb	1.1421	37.6	6.8775
Sn 189.925	141.006	ppb	2.1951	1.6	101.516
Sr 216.596	419.515	ppb	0.0938	0.0	5952.63
Ti 334.941	1904.08	ppb	3.1041	0.2	565436
Tl 190.794	8.2094	ppb	3.5401	43.1	-53.7766
V 292.401	530.299	ppb	0.8695	0.2	13706.6
Zn 206.200	6822.81	ppb	4.1986	0.1	7609.72

680-107310-b-4-a (Samp) **11/20/2014, 6:35:46 PM** **Rack 1, Tube 47**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	2.7270	2.7216	2.8284
Al 308.215	129247	129139	129472
As 188.980	261.666	247.576	251.656
B 249.678	62.7188	63.7747	64.2079
Ba 389.178	3559.49	3533.32	3535.27
Be 313.042	14.9354	14.9309	14.9729
Ca 370.602	80545	80438	80406
Cd 226.502	21.9542	22.3504	22.0840
Co 228.615	117.991	116.785	115.939
Cr 267.716	818.202	817.046	818.423
Cu 324.754	1032.50	1027.70	1034.73
Fe 271.441	445576	443112	445915
K 766.491	15390.4	15324.1	15396.7
Mg 279.078	15924.0	15902.1	15932.4
Mn 257.610	14767.7	14720.2	14748.1
Mo 202.032	28.6147	27.6826	27.4143
Na 330.237	765.581u	700.476u	853.076u
Ni 231.604	1196.54	1204.54	1204.62
Pb 220.353	3090.67	3088.30	3090.50
Sb 206.834	10.3492	14.0915	8.8625
Se 196.026	10.9207	12.1188	11.1163
Sn 189.925	172.875	168.718	171.112
Sr 216.596	473.771	472.563	472.890
Ti 334.941	2001.83	1997.16	2005.07
Tl 190.794	10.6452u	2.4556u	12.7980u
V 292.401	563.671	561.798	563.677
Zn 206.200	7539.79	7513.04	7533.61

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.7590	ppb	0.0601	2.2	188.421
Al 308.215	129286	ppb	169.855	0.1	878090
As 188.980	253.633	ppb	7.2502	2.9	131.728
B 249.678	63.5671	ppb	0.7659	1.2	85.9093
Ba 389.178	3542.70	ppb	14.5808	0.4	75346.8
Be 313.042	14.9464	ppb	0.0231	0.2	27054.7
Ca 370.602	80463	ppb	73.00	0.1	211135
Cd 226.502	22.1295	ppb	0.2020	0.9	2563.96
Co 228.615	116.905	ppb	1.0312	0.9	1421.33

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	817.890	ppb	0.7395	0.1	44366.0
Cu 324.754	1031.64	ppb	3.5921	0.3	70598.0
Fe 271.441	444868	ppb	1529.78	0.3	733853
K 766.491	15370.4	ppb	40.2182	0.3	639787
Mg 279.078	15919.5	ppb	15.6312	0.1	43200.2
Mn 257.610	14745.3	ppb	23.8653	0.2	2983470
Mo 202.032	27.9039	ppb	0.6301	2.3	173.670
Na 330.237	773.044	ppb	76.5736	9.9	-181.092
Ni 231.604	1201.90	ppb	4.6427	0.4	3668.38
Pb 220.353	3089.83	ppb	1.3210	0.0	5049.90
Sb 206.834	11.1011	ppb	2.6944	24.3	28.1202
Se 196.026	11.3852	ppb	0.6427	5.6	10.7973
Sn 189.925	170.902	ppb	2.0867	1.2	124.174
Sr 216.596	473.075	ppb	0.6247	0.1	6697.84
Ti 334.941	2001.35	ppb	3.9747	0.2	594324
Tl 190.794	8.6329	ppb	5.4570	63.2	-59.1255
V 292.401	563.049	ppb	1.0832	0.2	14546.0
Zn 206.200	7528.81	ppb	14.0036	0.2	8397.07

680-107310-b-5-a (Samp) **11/20/2014, 6:40:04 PM** **Rack 1, Tube 48**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	6.6869	5.9355	6.4914
Al 308.215	104893	104942	104623
As 188.980	214.786	224.989	218.285
B 249.678	92.6554	93.0660	93.7765
Ba 389.178	5978.67	5977.73	5969.33
Be 313.042	11.2246	11.2367	11.2127
Ca 370.602	124227	124627	124805
Cd 226.502	30.7670	30.6430	30.4711
Co 228.615	99.0639	99.4584	100.736
Cr 267.716	654.277	655.199	654.575
Cu 324.754	1543.23	1571.82	1556.62
Fe 271.441	378621	380352	378043
K 766.491	15953.4	15900.4	15890.5
Mg 279.078	20121.6	20167.4	20147.8
Mn 257.610	14121.6	14136.4	14063.9
Mo 202.032	34.4154	34.4961	34.5890
Na 330.237	2930.38u	2516.75u	2771.60u
Ni 231.604	576.648	575.686	577.890
Pb 220.353	5068.18	5092.63	5076.62
Sb 206.834	19.4341	17.8960	17.1626
Se 196.026	-0.5237	18.6392	0.0867
Sn 189.925	361.927	352.685	351.594
Sr 216.596	643.881	646.030	645.246
Ti 334.941	1797.15	1796.58	1792.79
Tl 190.794	10.2595u	7.4317u	7.4847u
V 292.401	399.805	399.914	400.258
Zn 206.200	11437.0	11487.9	11472.1

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	6.3713	ppb	0.3899	6.1	486.195
Al 308.215	104819	ppb	171.486	0.2	711992

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	219.353	ppb	5.1846	2.4	112.985
B 249.678	93.1660	ppb	0.5672	0.6	729.041
Ba 389.178	5975.24	ppb	5.1416	0.1	126835
Be 313.042	11.2247	ppb	0.0120	0.1	20260.9
Ca 370.602	124553	ppb	296.2	0.2	329075
Cd 226.502	30.6271	ppb	0.1486	0.5	2679.04
Co 228.615	99.7528	ppb	0.8741	0.9	1213.94
Cr 267.716	654.683	ppb	0.4705	0.1	35542.8
Cu 324.754	1557.22	ppb	14.3074	0.9	106334
Fe 271.441	379005	ppb	1201.83	0.3	625208
K 766.491	15914.8	ppb	33.8332	0.2	662438
Mg 279.078	20145.6	ppb	22.9662	0.1	54779.1
Mn 257.610	14107.3	ppb	38.3393	0.3	2854287
Mo 202.032	34.5002	ppb	0.0869	0.3	221.688
Na 330.237	2739.57	ppb	208.668	7.6	-156.303
Ni 231.604	576.741	ppb	1.1049	0.2	1771.50
Pb 220.353	5079.14	ppb	12.4173	0.2	8270.26
Sb 206.834	18.1643	ppb	1.1593	6.4	34.5374
Se 196.026	6.0674	ppb	10.8918	179.5	7.8023
Sn 189.925	355.402	ppb	5.6772	1.6	264.004
Sr 216.596	645.052	ppb	1.0879	0.2	8851.27
Ti 334.941	1795.51	ppb	2.3676	0.1	533204
Tl 190.794	8.3920	ppb	1.6175	19.3	-50.1643
V 292.401	399.992	ppb	0.2368	0.1	10304.6
Zn 206.200	11465.7	ppb	26.0649	0.2	12799.3

Cont Calib Verif (CCV) **11/20/2014, 6:44:20 PM** **Rack 1, Tube 49**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	503.881	500.015	499.294
Al 308.215	4909.62	4904.88	4884.70
As 188.980	491.770	505.454	489.061
B 249.678	493.370	493.777	494.218
Ba 389.178	5234.11	5238.76	5221.52
Be 313.042	527.103	526.134	521.160
Ca 370.602	4991	5002	4958
Cd 226.502	527.849	525.346	524.389
Co 228.615	531.955	531.756	529.321
Cr 267.716	5251.96	5248.86	5227.51
Cu 324.754	5308.64	5358.71	5292.91
Fe 271.441	4982.71	4991.37	4964.04
K 766.491	10239.3	10223.1	10182.1
Mg 279.078	4973.91	4969.44	4958.36
Mn 257.610	5346.48	5337.63	5312.10
Mo 202.032	499.609	497.583	495.988
Na 330.237	7673.95	7705.09	7434.49
Ni 231.604	2636.52	2660.23	2645.80
Pb 220.353	497.519	502.979	496.560
Sb 206.834	982.199	982.786	980.956
Se 196.026	4893.63	4889.95	4911.93
Sn 189.925	4937.45	4949.86	4979.52
Sr 216.596	2485.07	2481.05	2493.85
Ti 334.941	496.872	495.989	494.717

Label	Replicates Concentration		
Tl 190.794	5052.54	5037.90	5038.94
V 292.401	4957.95	4955.79	4925.36
Zn 206.200	2650.13	2638.01	2643.52

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	501.063	ppb	2.4663	0.5	41092.0	100.21267
Al 308.215	4899.73	ppb	13.2315	0.3	34368.7	97.99466
As 188.980	495.428	ppb	8.7879	1.8	268.766	99.08566
B 249.678	493.788	ppb	0.4241	0.1	8266.49	98.75764
Ba 389.178	5231.46	ppb	8.9208	0.2	110787	104.62925
Be 313.042	524.799	ppb	3.1885	0.6	958461	104.95985
Ca 370.602	4983	ppb	22.93	0.5	13598	99.66780
Cd 226.502	525.862	ppb	1.7866	0.3	21932.7	105.17236
Co 228.615	531.011	ppb	1.4669	0.3	6130.65	106.20213
Cr 267.716	5242.77	ppb	13.3129	0.3	282360	104.85548
Cu 324.754	5320.09	ppb	34.3571	0.6	362163	106.40172
Fe 271.441	4979.37	ppb	13.9638	0.3	8338.72	99.58748
K 766.491	10214.8	ppb	29.4428	0.3	425272	102.14836
Mg 279.078	4967.24	ppb	8.0053	0.2	13495.3	99.34476
Mn 257.610	5332.07	ppb	17.8521	0.3	1078466	106.64137
Mo 202.032	497.727	ppb	1.8147	0.4	3378.54	99.54533
Na 330.237	7604.51	ppb	148.063	1.9	314.178	101.39346
Ni 231.604	2647.52	ppb	11.9435	0.5	8004.32	105.90064
Pb 220.353	499.019	ppb	3.4625	0.7	823.362	99.80388
Sb 206.834	981.980	ppb	0.9344	0.1	1392.23	98.19801
Se 196.026	4898.50	ppb	11.7740	0.2	2112.58	97.97004
Sn 189.925	4955.61	ppb	21.6187	0.4	3750.44	99.11221
Sr 216.596	2486.66	ppb	6.5484	0.3	31862.5	99.46633
Ti 334.941	495.860	ppb	1.0832	0.2	147243	99.17191
Tl 190.794	5043.13	ppb	8.1699	0.2	5322.58	100.86256
V 292.401	4946.37	ppb	18.2252	0.4	129181	98.92736
Zn 206.200	2643.89	ppb	6.0713	0.2	2944.90	105.75542

Cont Calib Blank (CCB) **11/20/2014, 6:48:34 PM** **Rack 1, Tube 50**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2780	-0.0709u	0.1406
Al 308.215	1.4306	2.6900	3.4092
As 188.980	-0.1996u	3.0692	-1.6012u
B 249.678	8.5911	7.3472	6.4253
Ba 389.178	0.6002	0.4094	-0.1081u
Be 313.042	0.0157	0.0180	0.0187
Ca 370.602	9.607	5.378	8.848
Cd 226.502	0.1740	0.0518	-0.0049u
Co 228.615	-0.0272u	-0.0961u	0.2899
Cr 267.716	0.3649	0.4127	0.3059
Cu 324.754	-0.3023u	-0.2554u	-0.1685u
Fe 271.441	2.4642	9.9579	3.4919
K 766.491	1.8597	2.1046	2.1267
Mg 279.078	1.5015	0.2529	1.5264
Mn 257.610	0.4818	0.4264	0.5521
Mo 202.032	0.2708	0.6538	0.4387
Na 330.237	22.6428	116.139	-105.261u

Label	Replicates Concentration		
Ni 231.604	0.0269	0.0435	0.6908
Pb 220.353	2.7722	0.4749	4.5306
Sb 206.834	4.6904	1.3007	3.2657
Se 196.026	-4.2409u	-2.1976u	-4.4617u
Sn 189.925	-0.9782u	0.0489	0.0218
Sr 216.596	0.2814	0.3093	0.1361
Ti 334.941	0.1873	0.1269	0.1829
Tl 190.794	-1.9731u	4.8633	0.0909
V 292.401	0.0895	0.2101	0.2308
Zn 206.200	0.1523	-1.9841u	0.7555

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1159	ppb	0.1758	151.7	-13.4791	0.11590
Al 308.215	2.5099	ppb	1.0015	39.9	454.146	2.50991
As 188.980	0.4228	ppb	2.3966	566.8	-6.9089	0.42280
B 249.678	7.4546	ppb	1.0869	14.6	182.445	7.45456
Ba 389.178	0.3005	ppb	0.3665	122.0	-49.5781	0.30049
Be 313.042	0.0175	ppb	0.0016	9.2	-259.953	0.01746
Ca 370.602	7.944	ppb	2.255	28.4	26.92	7.94438
Cd 226.502	0.0736	ppb	0.0914	124.1	20.2831	0.07363
Co 228.615	0.0556	ppb	0.2059	370.5	-1.1969	0.05556
Cr 267.716	0.3612	ppb	0.0535	14.8	54.2764	0.36115
Cu 324.754	-0.2421	ppb	0.0679	28.0	216.345	-0.24210
Fe 271.441	5.3047	ppb	4.0624	76.6	25.5957	5.30467
K 766.491	2.0303	ppb	0.1482	7.3	332.656	2.03032
Mg 279.078	1.0936	ppb	0.7282	66.6	28.4638	1.09359
Mn 257.610	0.4868	ppb	0.0630	12.9	179.915	0.48678
Mo 202.032	0.4544	ppb	0.1920	42.3	8.8492	0.45442
Na 330.237	11.1736	ppb	111.145	994.7	29.4280	11.17362
Ni 231.604	0.2537	ppb	0.3786	149.2	-4.2458	0.25369
Pb 220.353	2.5926	ppb	2.0338	78.4	14.0399	2.59255
Sb 206.834	3.0856	ppb	1.7020	55.2	-0.3670	3.08557
Se 196.026	-3.6334	ppb	1.2483	34.4	-2.6376	-3.63341
Sn 189.925	-0.3025	ppb	0.5853	193.5	-5.5780	-0.30246
Sr 216.596	0.2423	ppb	0.0930	38.4	7.2641	0.24227
Ti 334.941	0.1657	ppb	0.0336	20.3	55.9385	0.16571
Tl 190.794	0.9937	ppb	3.5065	352.9	-8.3365	0.99369
V 292.401	0.1768	ppb	0.0763	43.2	-4.2686	0.17679
Zn 206.200	-0.3588	ppb	1.4395	401.2	1.0431	-0.35877

640-49766-b-1-a (Samp) **11/20/2014, 6:52:49 PM** **Rack 1, Tube 51**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7406u	-1.4874u	-0.7360u
Al 308.215	41084.5	41309.6	41286.5
As 188.980	224.790	231.100	229.618
B 249.678	7.0814u	6.6713u	6.8336u
Ba 389.178	136.060	136.403	136.015
Be 313.042	1.9076	1.9190	1.9175
Ca 370.602	1438	1452	1460
Cd 226.502	-0.3154	-0.4678	-0.4478
Co 228.615	4.8318	4.4265	4.6054
Cr 267.716	148.165	148.835	149.260

Label	Replicates Concentration		
Cu 324.754	92.1213	92.8419	91.5494
Fe 271.441	95334.0	95881.4	95999.3
K 766.491	1816.16	1826.64	1828.47
Mg 279.078	1704.86	1709.57	1711.34
Mn 257.610	114.776	115.280	115.220
Mo 202.032	6.7299	7.6470	7.6622
Na 330.237	7.2835u	59.7725u	16.3491u
Ni 231.604	13.7661	13.3273	14.4588
Pb 220.353	75.1372	80.2863	81.0535
Sb 206.834	4.9505	-2.8922u	2.9383
Se 196.026	-4.4159u	16.7288	6.0732
Sn 189.925	10.7547	11.9307	12.5507
Sr 216.596	33.6618	33.5333	34.0807
Ti 334.941	613.879	617.077	616.711
Tl 190.794	-0.3190u	3.0161u	2.0232u
V 292.401	251.333	253.169	252.894
Zn 206.200	69.3186	69.4289	72.1103

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9880	ppb	0.4325	43.8	-120.024
Al 308.215	41226.9	ppb	123.815	0.3	280308
As 188.980	228.503	ppb	3.2997	1.4	119.651
B 249.678	6.8621	ppb	0.2065	3.0	-49.0589
Ba 389.178	136.160	ppb	0.2122	0.2	2902.38
Be 313.042	1.9147	ppb	0.0062	0.3	3219.71
Ca 370.602	1450	ppb	10.85	0.7	3197
Cd 226.502	-0.4103	ppb	0.0828	20.2	349.822
Co 228.615	4.6212	ppb	0.2031	4.4	71.3952
Cr 267.716	148.753	ppb	0.5519	0.4	8091.44
Cu 324.754	92.1709	ppb	0.6477	0.7	6539.49
Fe 271.441	95738.2	ppb	354.973	0.4	157941
K 766.491	1823.76	ppb	6.6455	0.4	76132.0
Mg 279.078	1708.59	ppb	3.3515	0.2	4679.28
Mn 257.610	115.092	ppb	0.2752	0.2	23637.2
Mo 202.032	7.3463	ppb	0.5339	7.3	50.8562
Na 330.237	27.8017	ppb	28.0561	100.9	7.7728
Ni 231.604	13.8507	ppb	0.5705	4.1	44.9112
Pb 220.353	78.8257	ppb	3.2172	4.1	143.435
Sb 206.834	1.6655	ppb	4.0733	244.6	1.1157
Se 196.026	6.1287	ppb	10.5725	172.5	2.4134
Sn 189.925	11.7454	ppb	0.9122	7.8	3.5527
Sr 216.596	33.7586	ppb	0.2862	0.8	571.929
Ti 334.941	615.889	ppb	1.7503	0.3	182889
Tl 190.794	1.5734	ppb	1.7124	108.8	-21.7488
V 292.401	252.466	ppb	0.9901	0.4	6563.27
Zn 206.200	70.2859	ppb	1.5809	2.2	76.1875

640-49766-b-2-a (Samp) **11/20/2014, 6:57:05 PM** **Rack 1, Tube 52**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.6776u	-0.7320u	-0.9734u
Al 308.215	42113.6	42100.6	42042.3
As 188.980	192.478	192.685	195.260

Label	Replicates Concentration		
B 249.678	8.4708u	7.9375u	7.4140u
Ba 389.178	127.756	127.436	126.920
Be 313.042	1.5374	1.5459	1.5448
Ca 370.602	1585	1594	1596
Cd 226.502	-0.7652	-0.6625	-0.8390
Co 228.615	3.4341	3.1935	3.3994
Cr 267.716	248.248	248.386	247.334
Cu 324.754	62.4298	61.8229	62.7181
Fe 271.441	128380	128254	128004
K 766.491	1663.80	1667.94	1668.71
Mg 279.078	1485.39	1485.49	1480.59
Mn 257.610	76.4659	76.3818	76.2061
Mo 202.032	8.0332	7.5054	8.3303
Na 330.237	200.060u	546.100u	436.066u
Ni 231.604	7.8705	7.5422	7.3592
Pb 220.353	78.4065	79.8424	79.2004
Sb 206.834	-4.3420u	-1.3490	1.1586
Se 196.026	-3.2408u	0.2995	-3.0624u
Sn 189.925	9.4411	8.8815	15.2629
Sr 216.596	40.8169	39.7920	40.6809
Ti 334.941	621.839	621.851	621.305
Tl 190.794	1.7653u	3.3107u	5.8048u
V 292.401	385.207	386.601	386.370
Zn 206.200	73.1863	73.8738	70.5541

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7944	ppb	0.1574	19.8	-109.669
Al 308.215	42085.5	ppb	37.9531	0.1	286158
As 188.980	193.475	ppb	1.5498	0.8	99.9544
B 249.678	7.9408	ppb	0.5284	6.7	-106.096
Ba 389.178	127.371	ppb	0.4219	0.3	2739.76
Be 313.042	1.5427	ppb	0.0046	0.3	2546.58
Ca 370.602	1592	ppb	6.296	0.4	3263
Cd 226.502	-0.7556	ppb	0.0887	11.7	453.985
Co 228.615	3.3423	ppb	0.1301	3.9	59.1936
Cr 267.716	247.989	ppb	0.5716	0.2	13449.8
Cu 324.754	62.3236	ppb	0.4570	0.7	4519.94
Fe 271.441	128213	ppb	191.276	0.1	211509
K 766.491	1666.82	ppb	2.6421	0.2	69601.9
Mg 279.078	1483.82	ppb	2.8044	0.2	4065.16
Mn 257.610	76.3513	ppb	0.1326	0.2	15891.5
Mo 202.032	7.9563	ppb	0.4178	5.3	53.3315
Na 330.237	394.075	ppb	176.800	44.9	16.8834
Ni 231.604	7.5906	ppb	0.2591	3.4	28.6841
Pb 220.353	79.1498	ppb	0.7193	0.9	146.251
Sb 206.834	-1.5108	ppb	2.7539	182.3	-1.4287
Se 196.026	-2.0013	ppb	1.9945	99.7	-0.8250
Sn 189.925	11.1952	ppb	3.5338	31.6	3.1358
Sr 216.596	40.4299	ppb	0.5567	1.4	703.168
Ti 334.941	621.665	ppb	0.3114	0.1	184607
Tl 190.794	3.6270	ppb	2.0382	56.2	-24.2884
V 292.401	386.059	ppb	0.7472	0.2	10045.1
Zn 206.200	72.5381	ppb	1.7522	2.4	77.3172

640-49766-b-3-a (Samp) **11/20/2014, 7:01:20 PM** **Rack 1, Tube 53**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2627u	-0.5725u	-0.1078u
Al 308.215	122551	122800	122601
As 188.980	56.6630	51.4650	54.7079
B 249.678	7.2675u	6.8900u	7.4418u
Ba 389.178	313.513	314.894	313.292
Be 313.042	1.5284	1.5323	1.5301
Ca 370.602	4715	4712	4693
Cd 226.502	-0.2036	-0.2675	-0.3516
Co 228.615	9.5763	9.4236	9.8707
Cr 267.716	165.079	165.270	165.156
Cu 324.754	51.5883	51.2405	51.0747
Fe 271.441	140395	140515	140288
K 766.491	4923.51	4940.32	4923.69
Mg 279.078	6285.59	6289.27	6276.71
Mn 257.610	118.851	119.195	119.252
Mo 202.032	6.6861	6.9493	7.4184
Na 330.237	97.9296u	55.5689u	311.380u
Ni 231.604	30.6066	29.9833	30.6536
Pb 220.353	77.5292	79.5293	81.7929
Sb 206.834	-4.3521u	-1.5971	1.0692
Se 196.026	6.8502	-2.2565	-6.7493u
Sn 189.925	11.8253	16.7655	12.4246
Sr 216.596	69.6517	70.5899	69.8982
Ti 334.941	571.766	572.518	571.045
Tl 190.794	3.5193u	-0.5192u	1.9372u
V 292.401	327.769	329.243	327.415
Zn 206.200	78.9208	74.2431	76.0278

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3143	ppb	0.2366	75.3	-72.8293
Al 308.215	122651	ppb	131.783	0.1	832986
As 188.980	54.2786	ppb	2.6254	4.8	22.3256
B 249.678	7.1998	ppb	0.2820	3.9	-146.796
Ba 389.178	313.900	ppb	0.8679	0.3	6709.29
Be 313.042	1.5303	ppb	0.0019	0.1	2528.67
Ca 370.602	4707	ppb	11.87	0.3	11418
Cd 226.502	-0.2742	ppb	0.0742	27.1	519.174
Co 228.615	9.6235	ppb	0.2272	2.4	131.268
Cr 267.716	165.168	ppb	0.0962	0.1	8996.80
Cu 324.754	51.3012	ppb	0.2622	0.5	3775.67
Fe 271.441	140399	ppb	113.776	0.1	231611
K 766.491	4929.17	ppb	9.6544	0.2	205344
Mg 279.078	6283.86	ppb	6.4535	0.1	17158.5
Mn 257.610	119.100	ppb	0.2166	0.2	24605.3
Mo 202.032	7.0180	ppb	0.3709	5.3	46.4469
Na 330.237	154.960	ppb	137.110	88.5	3.4736
Ni 231.604	30.4145	ppb	0.3742	1.2	98.7859
Pb 220.353	79.6171	ppb	2.1332	2.7	146.669
Sb 206.834	-1.6266	ppb	2.7108	166.6	-2.3706
Se 196.026	-0.7186	ppb	6.9290	964.3	-0.1579
Sn 189.925	13.6718	ppb	2.6960	19.7	5.0126
Sr 216.596	70.0466	ppb	0.4864	0.7	1101.22

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	571.776	ppb	0.7368	0.1	169809
Tl 190.794	1.6458	ppb	2.0349	123.6	-28.2857
V 292.401	328.142	ppb	0.9699	0.3	8527.10
Zn 206.200	76.3973	ppb	2.3606	3.1	81.3539

640-49766-b-4-a (Samp) **11/20/2014, 7:05:36 PM** **Rack 1, Tube 54**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.9042u	-0.6860u	-0.9078u
Al 308.215	51399.0	51367.6	51132.4
As 188.980	19.1947	24.6956	21.6034
B 249.678	4.9941u	3.7890u	3.9921u
Ba 389.178	89.4212	88.5700	88.3934
Be 313.042	0.5844	0.5843	0.5747
Ca 370.602	716.7	717.4	711.0
Cd 226.502	0.0111	-0.0847	-0.0566
Co 228.615	2.9227	2.4479	2.3975
Cr 267.716	73.0846	72.8489	72.8019
Cu 324.754	21.4009	22.4026	22.0655
Fe 271.441	41348.9	41347.3	41269.3
K 766.491	2274.91	2270.27	2267.34
Mg 279.078	2204.07	2206.01	2202.03
Mn 257.610	74.3861	74.3677	73.9170
Mo 202.032	2.7441	2.5247	2.9239
Na 330.237	-31.8377u	13.5705u	28.0057u
Ni 231.604	10.3173	9.6475	9.1594
Pb 220.353	56.7883	56.1276	56.5827
Sb 206.834	3.3845	-0.7666	0.6800
Se 196.026	-2.0760u	0.3125	2.4587
Sn 189.925	9.4756	9.7201	9.5271
Sr 216.596	15.6595	15.7793	16.0230
Ti 334.941	471.802	471.564	470.499
Tl 190.794	2.5744u	1.0920u	0.5573u
V 292.401	121.102	120.737	120.216
Zn 206.200	39.3288	39.1439	39.1246

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8327	ppb	0.1270	15.3	-97.9726
Al 308.215	51299.6	ppb	145.707	0.3	348653
As 188.980	21.8312	ppb	2.7576	12.6	4.7921
B 249.678	4.2584	ppb	0.6452	15.2	33.7023
Ba 389.178	88.7948	ppb	0.5495	0.6	1859.85
Be 313.042	0.5811	ppb	0.0056	1.0	779.509
Ca 370.602	715.0	ppb	3.533	0.5	1707
Cd 226.502	-0.0434	ppb	0.0493	113.6	165.973
Co 228.615	2.5894	ppb	0.2898	11.2	41.0645
Cr 267.716	72.9118	ppb	0.1515	0.2	3981.93
Cu 324.754	21.9563	ppb	0.5097	2.3	1741.80
Fe 271.441	41321.8	ppb	45.5304	0.1	68179.2
K 766.491	2270.84	ppb	3.8170	0.2	94734.5
Mg 279.078	2204.04	ppb	1.9859	0.1	6031.03
Mn 257.610	74.2236	ppb	0.2657	0.4	15223.4
Mo 202.032	2.7309	ppb	0.1999	7.3	22.2285

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	3.2461	ppb	31.2290	962.0	19.2294
Ni 231.604	9.7081	ppb	0.5813	6.0	27.8304
Pb 220.353	56.4995	ppb	0.3381	0.6	103.362
Sb 206.834	1.0993	ppb	2.1071	191.7	-1.4814
Se 196.026	0.2318	ppb	2.2685	978.8	-0.6026
Sn 189.925	9.5743	ppb	0.1289	1.3	1.9074
Sr 216.596	15.8206	ppb	0.1852	1.2	265.214
Ti 334.941	471.288	ppb	0.6936	0.1	139950
Tl 190.794	1.4079	ppb	1.0450	74.2	-13.9146
V 292.401	120.685	ppb	0.4452	0.4	3135.58
Zn 206.200	39.1991	ppb	0.1127	0.3	43.5911

640-49766-b-5-a (Samp) **11/20/2014, 7:09:51 PM** **Rack 1, Tube 55**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	-0.0691u	0.2513u	-0.2495u
Al 308.215	125361	125086	125086
As 188.980	153.979	168.597	161.119
B 249.678	6.8513u	7.2344u	7.5663u
Ba 389.178	386.981	387.827	385.909
Be 313.042	2.3827	2.3824	2.3740
Ca 370.602	8198	8221	8216
Cd 226.502	-0.7347	-1.1421	-1.1282
Co 228.615	7.3984	7.9661	7.5080
Cr 267.716	256.210	255.943	255.979
Cu 324.754	63.0408	62.3478	62.2297
Fe 271.441	265008	265210	265076
K 766.491	4879.93	4881.41	4879.77
Mg 279.078	6401.65	6371.95	6379.46
Mn 257.610	122.966	122.418	122.674
Mo 202.032	12.9575	13.1786	12.8963
Na 330.237	-130.611u	-121.186u	-210.740u
Ni 231.604	23.2213	23.8238	23.0729
Pb 220.353	116.481	115.742	114.018
Sb 206.834	-5.6712u	-0.5932	1.8008
Se 196.026	4.2528	1.3045	3.2490
Sn 189.925	21.6240	14.7512	17.7648
Sr 216.596	95.3116	93.5423	93.7909
Ti 334.941	800.456	799.457	800.292
Tl 190.794	4.0793u	7.9741u	-1.3035u
V 292.401	562.786	562.318	562.704
Zn 206.200	87.4238	83.4039	86.8184

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0224	ppb	0.2536	1131.9	-70.0564
Al 308.215	125178	ppb	158.846	0.1	850185
As 188.980	161.232	ppb	7.3098	4.5	81.2333
B 249.678	7.2173	ppb	0.3578	5.0	-435.117
Ba 389.178	386.906	ppb	0.9610	0.2	8347.84
Be 313.042	2.3797	ppb	0.0050	0.2	4090.09
Ca 370.602	8212	ppb	12.47	0.2	19638
Cd 226.502	-1.0017	ppb	0.2313	23.1	945.080
Co 228.615	7.6242	ppb	0.3011	3.9	121.690

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	256.044	ppb	0.1447	0.1	13948.6
Cu 324.754	62.5394	ppb	0.4382	0.7	4587.58
Fe 271.441	265098	ppb	103.154	0.0	437306
K 766.491	4880.37	ppb	0.9042	0.0	203313
Mg 279.078	6384.35	ppb	15.4459	0.2	17432.3
Mn 257.610	122.686	ppb	0.2744	0.2	25680.2
Mo 202.032	13.0108	ppb	0.1485	1.1	81.0138
Na 330.237	-154.179	ppb	49.2094	31.9	-37.7950
Ni 231.604	23.3727	ppb	0.3977	1.7	87.9196
Pb 220.353	115.414	ppb	1.2643	1.1	213.198
Sb 206.834	-1.4879	ppb	3.8155	256.4	1.0524
Se 196.026	2.9354	ppb	1.4990	51.1	2.4816
Sn 189.925	18.0466	ppb	3.4451	19.1	8.3279
Sr 216.596	94.2150	ppb	0.9579	1.0	1587.67
Ti 334.941	800.068	ppb	0.5358	0.1	237608
Tl 190.794	3.5833	ppb	4.6586	130.0	-44.7338
V 292.401	562.603	ppb	0.2502	0.0	14617.6
Zn 206.200	85.8820	ppb	2.1674	2.5	87.2187

640-49768-b-1-a (Samp) **11/20/2014, 7:14:07 PM** **Rack 1, Tube 56**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.1002u	-0.7998u	-0.6572u
Al 308.215	41670.8	41627.0	41558.2
As 188.980	22.8767	24.2468	19.7447
B 249.678	4.0457u	4.5157u	3.6559u
Ba 389.178	113.442	113.347	113.376
Be 313.042	0.7882	0.7955	0.7882
Ca 370.602	632.2	627.7	629.1
Cd 226.502	-0.1326	-0.0826	-0.2037
Co 228.615	3.5437	3.8997	4.4513
Cr 267.716	42.8305	42.6523	42.8028
Cu 324.754	19.1557	20.0324	19.5911
Fe 271.441	34967.4	34906.8	34812.6
K 766.491	2292.73	2288.12	2274.05
Mg 279.078	2594.60	2591.68	2582.84
Mn 257.610	50.6012	50.7312	50.4350
Mo 202.032	2.5659	2.3868	2.4413
Na 330.237	-80.8484u	40.6650u	17.5204u
Ni 231.604	12.9504	12.2561	11.7789
Pb 220.353	55.1123	51.7458	53.9968
Sb 206.834	2.6776	6.5376	1.0070
Se 196.026	4.1784	-8.2505u	-0.6562
Sn 189.925	12.0390	11.5578	9.6002
Sr 216.596	28.0919	27.5391	28.4546
Ti 334.941	349.214	348.232	347.176
Tl 190.794	0.2895u	0.7215u	1.6839u
V 292.401	98.7257	98.2087	97.7068
Zn 206.200	40.6326	39.1460	39.9451

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8524	ppb	0.2261	26.5	-99.1593
Al 308.215	41618.7	ppb	56.8035	0.1	282940

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	22.2894	ppb	2.3078	10.4	5.0828
B 249.678	4.0724	ppb	0.4305	10.6	45.4759
Ba 389.178	113.388	ppb	0.0488	0.0	2376.82
Be 313.042	0.7906	ppb	0.0042	0.5	1160.20
Ca 370.602	629.6	ppb	2.272	0.4	1490
Cd 226.502	-0.1396	ppb	0.0608	43.6	138.665
Co 228.615	3.9649	ppb	0.4573	11.5	53.7937
Cr 267.716	42.7619	ppb	0.0959	0.2	2354.87
Cu 324.754	19.5931	ppb	0.4383	2.2	1578.72
Fe 271.441	34895.6	ppb	78.0450	0.2	57579.0
K 766.491	2284.97	ppb	9.7328	0.4	95322.1
Mg 279.078	2589.71	ppb	6.1261	0.2	7089.74
Mn 257.610	50.5892	ppb	0.1485	0.3	10428.5
Mo 202.032	2.4647	ppb	0.0918	3.7	20.7481
Na 330.237	-7.5543	ppb	64.5208	854.1	20.1427
Ni 231.604	12.3285	ppb	0.5891	4.8	35.2145
Pb 220.353	53.6183	ppb	1.7149	3.2	98.4211
Sb 206.834	3.4074	ppb	2.8366	83.2	1.1828
Se 196.026	-1.5761	ppb	6.2653	397.5	-1.4420
Sn 189.925	11.0657	ppb	1.2917	11.7	3.0377
Sr 216.596	28.0285	ppb	0.4610	1.6	412.888
Ti 334.941	348.207	ppb	1.0192	0.3	103405
Tl 190.794	0.8983	ppb	0.7138	79.5	-13.5262
V 292.401	98.2137	ppb	0.5094	0.5	2550.06
Zn 206.200	39.9079	ppb	0.7440	1.9	44.6804

640-49768-b-2-a (Samp) **11/20/2014, 7:18:24 PM** **Rack 1, Tube 57**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.1763u	-1.0984u	-0.6704u
Al 308.215	78446.2	78264.9	78318.2
As 188.980	79.1905	74.1056	80.3447
B 249.678	6.2793u	6.1892u	5.7290u
Ba 389.178	219.220	220.333	219.854
Be 313.042	2.0914	2.1005	2.1029
Ca 370.602	655.9	642.7	638.4
Cd 226.502	-0.5698	-0.4328	-0.3377
Co 228.615	9.1639	9.3067	9.0152
Cr 267.716	133.575	133.889	134.020
Cu 324.754	40.9516	40.4763	40.7062
Fe 271.441	107189	107253	107432
K 766.491	4491.82	4486.95	4493.68
Mg 279.078	3468.14	3459.97	3464.28
Mn 257.610	167.617	167.109	167.332
Mo 202.032	15.8347	16.1201	15.1292
Na 330.237	515.236u	777.092	704.254
Ni 231.604	28.4547	28.6463	26.5875
Pb 220.353	65.9289	62.9878	61.9210
Sb 206.834	2.4856	1.6800	-0.7252
Se 196.026	-6.5124u	-1.1233	-2.3429u
Sn 189.925	11.1700	7.3205	10.6610
Sr 216.596	24.1846	24.6457	23.8133
Ti 334.941	687.651	686.238	687.856

Label	Replicates Concentration		
Tl 190.794	5.4310u	4.3029u	7.2234u
V 292.401	235.066	234.749	235.040
Zn 206.200	96.6127	95.8479	97.6734

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9817	ppb	0.2724	27.8	-120.711
Al 308.215	78343.1	ppb	93.1751	0.1	532233
As 188.980	77.8803	ppb	3.3195	4.3	35.6575
B 249.678	6.0658	ppb	0.2952	4.9	-88.7851
Ba 389.178	219.803	ppb	0.5583	0.3	4686.01
Be 313.042	2.0982	ppb	0.0061	0.3	3555.16
Ca 370.602	645.7	ppb	9.124	1.4	974.4
Cd 226.502	-0.4467	ppb	0.1167	26.1	390.101
Co 228.615	9.1619	ppb	0.1458	1.6	125.809
Cr 267.716	133.828	ppb	0.2290	0.2	7294.09
Cu 324.754	40.7114	ppb	0.2377	0.6	3043.37
Fe 271.441	107291	ppb	125.938	0.1	176999
K 766.491	4490.81	ppb	3.4758	0.1	187104
Mg 279.078	3464.13	ppb	4.0839	0.1	9464.34
Mn 257.610	167.353	ppb	0.2549	0.2	34250.8
Mo 202.032	15.6947	ppb	0.5101	3.2	107.004
Na 330.237	665.527	ppb	135.155	20.3	33.0339
Ni 231.604	27.8962	ppb	1.1374	4.1	88.3679
Pb 220.353	63.6126	ppb	2.0757	3.3	118.980
Sb 206.834	1.1468	ppb	1.6705	145.7	0.2853
Se 196.026	-3.3262	ppb	2.8259	85.0	-1.5552
Sn 189.925	9.7171	ppb	2.0911	21.5	2.0157
Sr 216.596	24.2145	ppb	0.4170	1.7	464.519
Ti 334.941	687.248	ppb	0.8807	0.1	204083
Tl 190.794	5.6525	ppb	1.4728	26.1	-19.1909
V 292.401	234.952	ppb	0.1760	0.1	6099.88
Zn 206.200	96.7114	ppb	0.9168	0.9	105.333

640-49768-b-3-a (Samp) **11/20/2014, 7:22:40 PM** **Rack 1, Tube 58**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.5841u	-0.9973u	-0.9390u
Al 308.215	49119.7	49263.1	49123.4
As 188.980	162.316	161.474	162.794
B 249.678	3.4800u	3.2976u	4.0361u
Ba 389.178	123.902	124.335	123.932
Be 313.042	1.2620	1.2639	1.2625
Ca 370.602	1862	1869	1863
Cd 226.502	-0.8210	-0.5186	-0.6996
Co 228.615	4.6728	5.1407	4.6600
Cr 267.716	119.539	119.959	119.374
Cu 324.754	41.5273	42.0447	41.6372
Fe 271.441	117630	118258	117792
K 766.491	2543.86	2551.53	2553.76
Mg 279.078	3388.38	3406.09	3393.48
Mn 257.610	166.774	166.956	166.709
Mo 202.032	7.8069	7.3328	7.8386
Na 330.237	-6.7278u	36.0132u	41.0382u

Label	Replicates Concentration		
Ni 231.604	15.9963	15.9862	14.8950
Pb 220.353	75.6267	73.2090	74.9509
Sb 206.834	0.2525	5.8165	0.9462
Se 196.026	-3.5144u	7.8301	-8.2283u
Sn 189.925	12.7337	11.9501	8.3690
Sr 216.596	27.8960	28.2933	27.8073
Ti 334.941	569.866	572.350	570.497
Tl 190.794	3.9351u	1.3498u	2.2907u
V 292.401	262.852	263.845	262.774
Zn 206.200	71.3118	72.3643	68.8078

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.8402	ppb	0.2237	26.6	-111.097
Al 308.215	49168.8	ppb	81.7250	0.2	334217
As 188.980	162.195	ppb	0.6681	0.4	82.5817
B 249.678	3.6046	ppb	0.3847	10.7	-154.330
Ba 389.178	124.056	ppb	0.2416	0.2	2665.54
Be 313.042	1.2628	ppb	0.0010	0.1	2029.64
Ca 370.602	1865	ppb	3.484	0.2	4070
Cd 226.502	-0.6797	ppb	0.1522	22.4	419.625
Co 228.615	4.8245	ppb	0.2739	5.7	74.2029
Cr 267.716	119.624	ppb	0.3015	0.3	6533.33
Cu 324.754	41.7364	ppb	0.2726	0.7	3116.71
Fe 271.441	117894	ppb	326.245	0.3	194487
K 766.491	2549.72	ppb	5.1943	0.2	106338
Mg 279.078	3395.98	ppb	9.1179	0.3	9289.08
Mn 257.610	166.813	ppb	0.1283	0.1	34171.0
Mo 202.032	7.6594	ppb	0.2833	3.7	51.9318
Na 330.237	23.4412	ppb	26.2477	112.0	2.7153
Ni 231.604	15.6258	ppb	0.6330	4.1	52.1339
Pb 220.353	74.5955	ppb	1.2474	1.7	137.997
Sb 206.834	2.3384	ppb	3.0320	129.7	2.0595
Se 196.026	-1.3042	ppb	8.2542	632.9	-0.5925
Sn 189.925	11.0176	ppb	2.3270	21.1	3.0011
Sr 216.596	27.9989	ppb	0.2588	0.9	529.018
Ti 334.941	570.904	ppb	1.2915	0.2	169539
Tl 190.794	2.5252	ppb	1.3085	51.8	-24.0420
V 292.401	263.157	ppb	0.5971	0.2	6836.07
Zn 206.200	70.8280	ppb	1.8270	2.6	76.0485

640-49768-b-4-a (Samp) **11/20/2014, 7:26:57 PM** **Rack 1, Tube 59**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0970u	-0.4566u	-0.2907u
Al 308.215	33921.8	33897.1	33777.8
As 188.980	262.957	260.374	266.225
B 249.678	2.2228u	2.2845u	1.6074u
Ba 389.178	52.7804	52.6432	52.5422
Be 313.042	0.5582	0.5734	0.5704
Ca 370.602	2885	2899	2899
Cd 226.502	-0.6168	-0.3501	-0.3997
Co 228.615	0.4316	0.1697	0.1558
Cr 267.716	166.142	166.020	165.618

Label	Replicates Concentration		
Cu 324.754	47.7247	47.6128	48.0168
Fe 271.441	109180	109224	108952
K 766.491	964.182	959.768	959.487
Mg 279.078	389.185	390.647	396.187
Mn 257.610	59.0577	59.1193	58.8057
Mo 202.032	6.8727	7.1612	6.9803
Na 330.237	35.3346u	-139.040u	-52.0775u
Ni 231.604	4.7022	4.7570	5.1711
Pb 220.353	59.8466	53.5725	54.2414
Sb 206.834	-0.6438	3.0892	-0.7062
Se 196.026	-2.4145u	-7.1175u	-1.9004
Sn 189.925	10.4793	12.9278	13.6936
Sr 216.596	16.8662	16.5685	15.4839
Ti 334.941	563.408	561.925	560.509
Tl 190.794	2.0508u	4.8112u	0.7419u
V 292.401	290.331	290.265	290.582
Zn 206.200	34.4386	32.7010	31.5819

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2814	ppb	0.1800	63.9	-63.8585
Al 308.215	33865.6	ppb	76.9945	0.2	230350
As 188.980	263.185	ppb	2.9322	1.1	138.903
B 249.678	2.0382	ppb	0.3744	18.4	-160.253
Ba 389.178	52.6553	ppb	0.1196	0.2	1140.83
Be 313.042	0.5673	ppb	0.0080	1.4	760.432
Ca 370.602	2894	ppb	8.006	0.3	6890
Cd 226.502	-0.4555	ppb	0.1418	31.1	397.125
Co 228.615	0.2524	ppb	0.1554	61.6	20.8067
Cr 267.716	165.927	ppb	0.2739	0.2	9021.84
Cu 324.754	47.7848	ppb	0.2086	0.4	3524.34
Fe 271.441	109119	ppb	145.931	0.1	180013
K 766.491	961.146	ppb	2.6332	0.3	40240.0
Mg 279.078	392.006	ppb	3.6932	0.9	1083.24
Mn 257.610	58.9942	ppb	0.1661	0.3	12320.4
Mo 202.032	7.0047	ppb	0.1458	2.1	47.8656
Na 330.237	-51.9275	ppb	87.1872	167.9	2.0135
Ni 231.604	4.8768	ppb	0.2564	5.3	18.8902
Pb 220.353	55.8868	ppb	3.4456	6.2	107.313
Sb 206.834	0.5797	ppb	2.1735	374.9	0.0950
Se 196.026	-3.8108	ppb	2.8752	75.4	-1.7708
Sn 189.925	12.3669	ppb	1.6789	13.6	4.0237
Sr 216.596	16.3062	ppb	0.7275	4.5	367.449
Ti 334.941	561.947	ppb	1.4499	0.3	166872
Tl 190.794	2.5346	ppb	2.0773	82.0	-22.7388
V 292.401	290.393	ppb	0.1673	0.1	7550.44
Zn 206.200	32.9072	ppb	1.4395	4.4	33.8907

640-49768-b-5-a (Samp) **11/20/2014, 7:31:15 PM** **Rack 1, Tube 60**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7685u	-0.6144u	-0.4260u
Al 308.215	104441	104174	104311
As 188.980	75.1157	70.6778	75.6931

Label	Replicates Concentration		
B 249.678	6.2158u	7.3440u	6.2992u
Ba 389.178	282.710	281.967	282.059
Be 313.042	2.1502	2.1569	2.1479
Ca 370.602	4268	4256	4271
Cd 226.502	-0.6029	-0.6557	-0.6429
Co 228.615	12.5085	12.4445	11.6961
Cr 267.716	113.984	114.189	114.057
Cu 324.754	52.9308	52.6813	52.8041
Fe 271.441	131674	131394	131382
K 766.491	5804.06	5792.85	5798.92
Mg 279.078	5525.39	5523.95	5528.95
Mn 257.610	213.793	213.124	213.066
Mo 202.032	6.9142	7.5724	7.1819
Na 330.237	99.8687u	168.615u	-82.3373u
Ni 231.604	34.6575	33.8748	36.4618
Pb 220.353	87.4035	87.3145	88.0445
Sb 206.834	-0.0697	1.8692	-0.7337
Se 196.026	-2.3872	2.8564	-1.2595
Sn 189.925	14.6593	14.2849	14.0536
Sr 216.596	53.4596	53.8216	53.1307
Ti 334.941	832.330	831.285	832.397
Tl 190.794	1.5254u	5.9387u	2.2741u
V 292.401	275.862	276.381	275.842
Zn 206.200	110.454	109.663	107.817

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6030	ppb	0.1715	28.4	-94.2152
Al 308.215	104309	ppb	133.798	0.1	708483
As 188.980	73.8289	ppb	2.7442	3.7	33.2691
B 249.678	6.6197	ppb	0.6287	9.5	-135.481
Ba 389.178	282.245	ppb	0.4053	0.1	6030.52
Be 313.042	2.1517	ppb	0.0047	0.2	3659.06
Ca 370.602	4265	ppb	8.045	0.2	10439
Cd 226.502	-0.6339	ppb	0.0275	4.3	470.525
Co 228.615	12.2164	ppb	0.4517	3.7	165.989
Cr 267.716	114.076	ppb	0.1041	0.1	6242.26
Cu 324.754	52.8054	ppb	0.1248	0.2	3875.10
Fe 271.441	131484	ppb	165.126	0.1	216905
K 766.491	5798.61	ppb	5.6068	0.1	241520
Mg 279.078	5526.09	ppb	2.5777	0.0	15091.6
Mn 257.610	213.328	ppb	0.4040	0.2	43630.8
Mo 202.032	7.2228	ppb	0.3310	4.6	48.3220
Na 330.237	62.0488	ppb	129.680	209.0	0.6835
Ni 231.604	34.9980	ppb	1.3267	3.8	111.879
Pb 220.353	87.5875	ppb	0.3983	0.5	159.065
Sb 206.834	0.3553	ppb	1.3525	380.7	-0.4639
Se 196.026	-0.2635	ppb	2.7601	1047.6	-0.0187
Sn 189.925	14.3326	ppb	0.3057	2.1	5.5134
Sr 216.596	53.4707	ppb	0.3456	0.6	875.332
Ti 334.941	832.004	ppb	0.6236	0.1	247071
Tl 190.794	3.2461	ppb	2.3618	72.8	-25.2560
V 292.401	276.028	ppb	0.3056	0.1	7170.06
Zn 206.200	109.311	ppb	1.3536	1.2	118.574

Cont Calib Verif (CCV) **11/20/2014, 7:35:31 PM** **Rack 2, Tube 1**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	502.184	503.445	504.034
Al 308.215	4902.32	4919.37	4901.59
As 188.980	494.939	487.647	495.102
B 249.678	488.370	493.049	493.921
Ba 389.178	5239.89	5257.74	5244.82
Be 313.042	525.647	526.795	525.279
Ca 370.602	4972	4996	4953
Cd 226.502	524.700	526.537	524.731
Co 228.615	528.214	529.864	529.394
Cr 267.716	5239.62	5250.23	5238.15
Cu 324.754	5401.24	5312.95	5289.46
Fe 271.441	4946.44	4982.12	4952.01
K 766.491	10285.4	10329.9	10292.2
Mg 279.078	4964.63	4976.38	4962.87
Mn 257.610	5327.25	5341.44	5345.79
Mo 202.032	495.975	498.334	494.813
Na 330.237	7650.91	7687.49	7666.67
Ni 231.604	2645.09	2626.43	2643.43
Pb 220.353	499.516	497.055	496.868
Sb 206.834	978.468	982.457	984.832
Se 196.026	4902.37	4877.58	4914.89
Sn 189.925	4947.93	4968.65	4934.45
Sr 216.596	2495.76	2481.01	2476.16
Ti 334.941	497.332	498.587	496.881
Tl 190.794	5030.68	5037.57	5027.45
V 292.401	4947.93	4966.34	4937.62
Zn 206.200	2637.11	2632.61	2622.15

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	503.221	ppb	0.9449	0.2	41269.0	100.64421
Al 308.215	4907.76	ppb	10.0601	0.2	34424.8	98.15524
As 188.980	492.563	ppb	4.2581	0.9	267.169	98.51251
B 249.678	491.780	ppb	2.9849	0.6	8233.19	98.35600
Ba 389.178	5247.48	ppb	9.2179	0.2	111127	104.94961
Be 313.042	525.907	ppb	0.7904	0.2	960486	105.18138
Ca 370.602	4974	ppb	21.25	0.4	13573	99.47060
Cd 226.502	525.323	ppb	1.0516	0.2	21910.2	105.06450
Co 228.615	529.157	ppb	0.8501	0.2	6109.40	105.83146
Cr 267.716	5242.67	ppb	6.5875	0.1	282354	104.85336
Cu 324.754	5334.55	ppb	58.9359	1.1	363147	106.69095
Fe 271.441	4960.19	ppb	19.1970	0.4	8307.07	99.20381
K 766.491	10302.5	ppb	23.9726	0.2	428919	103.02484
Mg 279.078	4967.96	ppb	7.3424	0.1	13497.1	99.35917
Mn 257.610	5338.16	ppb	9.6990	0.2	1079698	106.76321
Mo 202.032	496.374	ppb	1.7944	0.4	3369.35	99.27483
Na 330.237	7668.36	ppb	18.3469	0.2	317.210	102.24477
Ni 231.604	2638.32	ppb	10.3290	0.4	7976.49	105.53262
Pb 220.353	497.813	ppb	1.4777	0.3	821.426	99.56261
Sb 206.834	981.919	ppb	3.2158	0.3	1392.41	98.19189
Se 196.026	4898.28	ppb	18.9884	0.4	2112.49	97.96557
Sn 189.925	4950.34	ppb	17.2241	0.3	3746.44	99.00683
Sr 216.596	2484.31	ppb	10.2095	0.4	31832.6	99.37236

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	497.600	ppb	0.8839	0.2	147760	99.51998
Tl 190.794	5031.90	ppb	5.1703	0.1	5310.75	100.63797
V 292.401	4950.63	ppb	14.5508	0.3	129292	99.01257
Zn 206.200	2630.62	ppb	7.6751	0.3	2930.03	105.22485

Cont Calib Blank (CCB) **11/20/2014, 7:39:47 PM** **Rack 2, Tube 2**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0990	0.0115	0.0830
Al 308.215	1.2342	-0.0170u	1.7603
As 188.980	-3.5917u	-2.7949u	-1.8721u
B 249.678	7.4548	6.1804	5.4480
Ba 389.178	0.0464	0.2817	0.1960
Be 313.042	0.0147	0.0125	0.0145
Ca 370.602	2.555	2.392	5.581
Cd 226.502	0.0072	0.1009	0.0619
Co 228.615	0.1756	-0.1929u	0.0040
Cr 267.716	0.0115	0.1154	0.0880
Cu 324.754	-0.0949u	0.0648	-0.1133u
Fe 271.441	-1.0623u	5.3149	5.8153
K 766.491	1.1372	0.9805	0.9953
Mg 279.078	2.6073	-0.5017u	-1.2794u
Mn 257.610	0.1856	0.1664	0.2415
Mo 202.032	0.6755	-0.2816u	0.5915
Na 330.237	-77.2682u	7.8647	281.488
Ni 231.604	-0.1286u	0.4814	1.0107
Pb 220.353	2.3185	2.0658	0.8188
Sb 206.834	7.1390	3.9880	3.1570
Se 196.026	6.4100	1.9953	-1.5852u
Sn 189.925	-0.0910u	1.2515	-1.1429u
Sr 216.596	-0.0773u	-0.0763u	0.1719
Ti 334.941	0.1241	0.1452	0.0957
Tl 190.794	2.1610	-0.1489u	-2.5395u
V 292.401	0.0761	-0.2482u	-0.0114u
Zn 206.200	-0.3292u	-0.5873u	-1.6324u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0645	ppb	0.0466	72.3	-17.7005	0.06450
Al 308.215	0.9925	ppb	0.9130	92.0	443.803	0.99251
As 188.980	-2.7529	ppb	0.8606	31.3	-8.6784	-2.75290
B 249.678	6.3611	ppb	1.0155	16.0	164.304	6.36105
Ba 389.178	0.1747	ppb	0.1191	68.2	-52.2508	0.17469
Be 313.042	0.0139	ppb	0.0012	8.7	-266.463	0.01391
Ca 370.602	3.509	ppb	1.796	51.2	15.14	3.50918
Cd 226.502	0.0567	ppb	0.0471	83.0	19.5534	0.05666
Co 228.615	-0.0044	ppb	0.1844	4196.8	-1.8922	-0.00439
Cr 267.716	0.0716	ppb	0.0538	75.1	38.6838	0.07164
Cu 324.754	-0.0478	ppb	0.0980	205.0	229.570	-0.04779
Fe 271.441	3.3560	ppb	3.8345	114.3	22.3681	3.35600
K 766.491	1.0377	ppb	0.0865	8.3	291.353	1.03766
Mg 279.078	0.2754	ppb	2.0566	746.8	26.2332	0.27538
Mn 257.610	0.1978	ppb	0.0390	19.7	121.447	0.19781
Mo 202.032	0.3285	ppb	0.5300	161.4	7.9948	0.32846

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	70.6947	ppb	187.449	265.2	32.0763	70.69475
Ni 231.604	0.4545	ppb	0.5701	125.4	-3.6386	0.45448
Pb 220.353	1.7344	ppb	0.8029	46.3	12.6481	1.73439
Sb 206.834	4.7614	ppb	2.1006	44.1	1.9132	4.76136
Se 196.026	2.2734	ppb	4.0048	176.2	-0.0904	2.27339
Sn 189.925	0.0058	ppb	1.2001	20607.2	-5.3443	0.00582
Sr 216.596	0.0061	ppb	0.1436	2352.9	4.2122	0.00610
Ti 334.941	0.1217	ppb	0.0249	20.4	42.8653	0.12168
Tl 190.794	-0.1758	ppb	2.3504	1337.0	-9.5709	-0.17579
V 292.401	-0.0612	ppb	0.1678	274.3	-10.4952	-0.06117
Zn 206.200	-0.8497	ppb	0.6901	81.2	0.4953	-0.84966

CRI (Samp) **11/20/2014, 7:44:03 PM** **Rack 2, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.3704	10.3975	10.6562
Al 308.215	205.011	202.373	205.951
As 188.980	30.9957	18.8633	22.4944
B 249.678	101.580	101.245	102.202
Ba 389.178	11.1482	10.6518	10.2089
Be 313.042	4.4125	4.4083	4.4460
Ca 370.602	530.0	531.3	534.8
Cd 226.502	5.2899	5.2964	5.2396
Co 228.615	10.5178	10.4771	10.6005
Cr 267.716	10.8772	10.6915	10.8563
Cu 324.754	22.4417	22.4061	22.1842
Fe 271.441	56.0190	57.8581	59.5191
K 766.491	1043.70	1040.45	1051.85
Mg 279.078	519.656	517.018	515.735
Mn 257.610	11.7111	11.6091	11.7409
Mo 202.032	10.8468	10.0901	10.5091
Na 330.237	1024.47	977.881	1005.50
Ni 231.604	44.8207	43.6750	42.4721
Pb 220.353	12.5833	10.1713	11.4294
Sb 206.834	25.7105	23.9647	23.4115
Se 196.026	14.7928	13.9990	18.0518
Sn 189.925	50.4401	45.9809	51.6694
Sr 216.596	10.3534	9.9510	10.5450
Ti 334.941	10.3337	10.3102	10.4155
Tl 190.794	26.7956	25.0303	27.2716
V 292.401	10.5939	10.3979	10.4281
Zn 206.200	22.3967	23.3638	22.3487

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.4747	ppb	0.1578	1.5	837.179
Al 308.215	204.445	ppb	1.8552	0.9	1826.35
As 188.980	24.1178	ppb	6.2270	25.8	6.2915
B 249.678	101.676	ppb	0.4853	0.5	1748.21
Ba 389.178	10.6697	ppb	0.4699	4.4	171.194
Be 313.042	4.4223	ppb	0.0207	0.5	7784.58
Ca 370.602	532.0	ppb	2.503	0.5	1427
Cd 226.502	5.2753	ppb	0.0311	0.6	237.066
Co 228.615	10.5318	ppb	0.0629	0.6	119.607

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	10.8083	ppb	0.1017	0.9	616.872
Cu 324.754	22.3440	ppb	0.1396	0.6	1753.36
Fe 271.441	57.7987	ppb	1.7508	3.0	113.531
K 766.491	1045.33	ppb	5.8761	0.6	43742.9
Mg 279.078	517.470	ppb	1.9995	0.4	1440.10
Mn 257.610	11.6870	ppb	0.0691	0.6	2448.85
Mo 202.032	10.4820	ppb	0.3791	3.6	76.8991
Na 330.237	1002.62	ppb	23.4279	2.3	72.9632
Ni 231.604	43.6559	ppb	1.1744	2.7	127.049
Pb 220.353	11.3947	ppb	1.2064	10.6	28.2955
Sb 206.834	24.3622	ppb	1.1999	4.9	28.6125
Se 196.026	15.6145	ppb	2.1477	13.8	5.6659
Sn 189.925	49.3635	ppb	2.9932	6.1	32.0634
Sr 216.596	10.2831	ppb	0.3032	2.9	135.084
Ti 334.941	10.3531	ppb	0.0553	0.5	3081.59
Tl 190.794	26.3659	ppb	1.1808	4.5	18.4494
V 292.401	10.4733	ppb	0.1056	1.0	262.953
Zn 206.200	22.7031	ppb	0.5727	2.5	26.7913

mb 680-358269/1-a (Samp) **11/20/2014, 7:48:18 PM** **Rack 2, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0617	-0.0715u	-0.0483u
Al 308.215	4.7095	4.2807	5.2924
As 188.980	0.1341	3.2545	-0.9157u
B 249.678	2.1362	1.9118	1.4653
Ba 389.178	0.0014	0.3548	0.0961
Be 313.042	0.0059	0.0006	0.0014
Ca 370.602	21.44	25.00	18.83
Cd 226.502	0.1177	0.0238	0.0620
Co 228.615	-0.0784u	0.5870	0.3600
Cr 267.716	0.6319	0.5125	0.8068
Cu 324.754	-0.4326u	-0.2541u	-0.5138u
Fe 271.441	5.3609	7.4795	10.9853
K 766.491	7.3778	6.8614	6.7667
Mg 279.078	5.1217	3.6619	3.8493
Mn 257.610	0.2013	0.2080	0.1727
Mo 202.032	0.3287	0.1315	0.6296
Na 330.237	-56.1005u	-107.217u	28.6422
Ni 231.604	-0.0041u	-0.2443u	1.1313
Pb 220.353	2.4595	3.7947	3.3026
Sb 206.834	-1.2139u	-1.7471u	4.0611
Se 196.026	0.6598	-0.5088u	-7.2782u
Sn 189.925	8.2248	3.6757	2.6127
Sr 216.596	0.2557	0.3805	0.6289
Ti 334.941	0.1114	0.1167	0.1054
Tl 190.794	1.8409	-0.6383u	3.6633
V 292.401	-0.1307u	-0.0852u	-0.2468u
Zn 206.200	1.9011	2.5804	3.4707

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0193	ppb	0.0712	368.0	-24.5994
Al 308.215	4.7609	ppb	0.5078	10.7	469.359

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	0.8243	ppb	2.1691	263.1	-6.6852
B 249.678	1.8378	ppb	0.3415	18.6	89.0587
Ba 389.178	0.1508	ppb	0.1829	121.3	-52.7434
Be 313.042	0.0027	ppb	0.0029	106.8	-286.984
Ca 370.602	21.76	ppb	3.100	14.2	63.66
Cd 226.502	0.0678	ppb	0.0472	69.6	20.0476
Co 228.615	0.2895	ppb	0.3382	116.8	1.4988
Cr 267.716	0.6504	ppb	0.1480	22.8	69.8574
Cu 324.754	-0.4002	ppb	0.1329	33.2	205.597
Fe 271.441	7.9419	ppb	2.8406	35.8	29.9782
K 766.491	7.0020	ppb	0.3289	4.7	539.519
Mg 279.078	4.2109	ppb	0.7943	18.9	36.9924
Mn 257.610	0.1940	ppb	0.0187	9.7	120.727
Mo 202.032	0.3633	ppb	0.2508	69.0	8.2309
Na 330.237	-44.8917	ppb	68.6196	152.9	26.8837
Ni 231.604	0.2943	ppb	0.7347	249.7	-4.1235
Pb 220.353	3.1856	ppb	0.6753	21.2	15.0015
Sb 206.834	0.3667	ppb	3.2105	875.5	-4.0680
Se 196.026	-2.3757	ppb	4.2856	180.4	-2.0953
Sn 189.925	4.8377	ppb	2.9810	61.6	-1.6823
Sr 216.596	0.4217	ppb	0.1900	45.1	9.5763
Ti 334.941	0.1112	ppb	0.0056	5.1	39.7683
Tl 190.794	1.6220	ppb	2.1592	133.1	-7.6738
V 292.401	-0.1542	ppb	0.0833	54.0	-12.9495
Zn 206.200	2.6507	ppb	0.7872	29.7	4.4056

lcs 680-358269/2-a (Samp) **11/20/2014, 7:52:34 PM** **Rack 2, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	53.3795	52.3115	53.3861
Al 308.215	5051.11	5032.41	5043.95
As 188.980	107.953	108.242	108.263
B 249.678	195.069	194.389	195.127
Ba 389.178	107.261	106.238	107.928
Be 313.042	54.6094	54.4456	54.5747
Ca 370.602	5122	5080	5112
Cd 226.502	54.5494	54.0871	54.2079
Co 228.615	53.8805	53.8890	54.3540
Cr 267.716	110.096	109.821	109.960
Cu 324.754	110.160	110.335	108.967
Fe 271.441	5097.97	5079.92	5082.79
K 766.491	5193.68	5185.67	5179.56
Mg 279.078	5057.50	5027.45	5044.48
Mn 257.610	558.120	555.640	556.259
Mo 202.032	101.349	101.918	102.379
Na 330.237	5262.77	5127.41	4932.64
Ni 231.604	109.386	107.993	107.982
Pb 220.353	512.796	508.248	505.911
Sb 206.834	53.6285	55.0944	49.5577
Se 196.026	100.619	96.1850	87.3086
Sn 189.925	210.717	205.840	209.000
Sr 216.596	101.230	100.478	100.708
Ti 334.941	103.559	103.178	103.601

Label	Replicates Concentration		
Tl 190.794	44.3440	38.6170	39.5257
V 292.401	103.124	102.115	102.681
Zn 206.200	110.993	111.540	109.571

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	53.0257	ppb	0.6185	1.2	4331.57
Al 308.215	5042.49	ppb	9.4345	0.2	34679.3
As 188.980	108.153	ppb	0.1731	0.2	53.0668
B 249.678	194.862	ppb	0.4107	0.2	3285.41
Ba 389.178	107.142	ppb	0.8508	0.8	2227.96
Be 313.042	54.5432	ppb	0.0863	0.2	99324.0
Ca 370.602	5105	ppb	21.58	0.4	13606
Cd 226.502	54.2815	ppb	0.2398	0.4	2296.10
Co 228.615	54.0412	ppb	0.2709	0.5	621.525
Cr 267.716	109.959	ppb	0.1374	0.1	5960.60
Cu 324.754	109.820	ppb	0.7445	0.7	7709.43
Fe 271.441	5086.89	ppb	9.7020	0.2	8415.23
K 766.491	5186.31	ppb	7.0829	0.1	216043
Mg 279.078	5043.15	ppb	15.0724	0.3	13801.6
Mn 257.610	556.673	ppb	1.2906	0.2	112711
Mo 202.032	101.882	ppb	0.5162	0.5	696.953
Na 330.237	5107.60	ppb	165.956	3.2	252.379
Ni 231.604	108.453	ppb	0.8078	0.7	323.415
Pb 220.353	508.985	ppb	3.5009	0.7	835.161
Sb 206.834	52.7602	ppb	2.8686	5.4	67.1965
Se 196.026	94.7041	ppb	6.7775	7.2	39.9335
Sn 189.925	208.519	ppb	2.4741	1.2	152.686
Sr 216.596	100.805	ppb	0.3857	0.4	1303.39
Ti 334.941	103.446	ppb	0.2333	0.2	30730.7
Tl 190.794	40.8289	ppb	3.0779	7.5	33.1800
V 292.401	102.640	ppb	0.5055	0.5	2652.88
Zn 206.200	110.701	ppb	1.0165	0.9	124.739

680-107114-d-13-a (Samp) **11/20/2014, 7:56:50 PM** **Rack 2, Tube 6**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	11.6343	11.3429	11.8698
Al 308.215	138484	138795	139019
As 188.980	14.5165	14.4393	17.5905
B 249.678	12.9085u	12.1670u	12.6099u
Ba 389.178	614.762	614.141	615.236
Be 313.042	5.0257	5.0240	5.0352
Ca 370.602	10188	10188	10201
Cd 226.502	1.5942	1.4980	1.7646
Co 228.615	27.8298	27.0770	28.0549
Cr 267.716	187.335	188.043	188.110
Cu 324.754	138.313	141.173	139.469
Fe 271.441	103210	103294	103333
K 766.491	8137.33	8165.64	8170.75
Mg 279.078	9189.55	9202.02	9208.47
Mn 257.610	1680.97	1679.76	1683.01
Mo 202.032	3.5369	4.1197	2.8355
Na 330.237	232.732u	384.757u	-41.5939u

Label	Replicates Concentration		
Ni 231.604	54.7591	54.2485	53.7925
Pb 220.353	375.491	373.325	372.780
Sb 206.834	0.3414	2.9733	1.8712
Se 196.026	-5.1626u	-1.5390	11.3658
Sn 189.925	28.8024	30.4500	28.8626
Sr 216.596	50.5955	50.8963	51.5109
Ti 334.941	3099.64	3105.37	3107.59
Tl 190.794	2.6923u	3.8616u	4.2807u
V 292.401	358.958	359.423	359.750
Zn 206.200	303.914	303.874	309.587

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	11.6157	ppb	0.2639	2.3	922.011
Al 308.215	138766	ppb	268.818	0.2	942367
As 188.980	15.5155	ppb	1.7975	11.6	0.9326
B 249.678	12.5618	ppb	0.3731	3.0	28.6815
Ba 389.178	614.713	ppb	0.5491	0.1	13059.8
Be 313.042	5.0283	ppb	0.0061	0.1	8923.83
Ca 370.602	10193	ppb	7.677	0.1	27472
Cd 226.502	1.6189	ppb	0.1350	8.3	457.183
Co 228.615	27.6539	ppb	0.5122	1.9	390.977
Cr 267.716	187.829	ppb	0.4294	0.2	10212.2
Cu 324.754	139.651	ppb	1.4385	1.0	9771.39
Fe 271.441	103279	ppb	62.5878	0.1	170384
K 766.491	8157.91	ppb	17.9992	0.2	339686
Mg 279.078	9200.01	ppb	9.6212	0.1	25093.6
Mn 257.610	1681.24	ppb	1.6450	0.1	340443
Mo 202.032	3.4973	ppb	0.6430	18.4	24.2679
Na 330.237	191.965	ppb	216.079	112.6	8.7551
Ni 231.604	54.2667	ppb	0.4836	0.9	167.781
Pb 220.353	373.865	ppb	1.4338	0.4	619.858
Sb 206.834	1.7286	ppb	1.3217	76.5	1.8927
Se 196.026	1.5547	ppb	8.6876	558.8	0.8417
Sn 189.925	29.3717	ppb	0.9343	3.2	16.9113
Sr 216.596	51.0009	ppb	0.4666	0.9	805.952
Ti 334.941	3104.20	ppb	4.1013	0.1	921720
Tl 190.794	3.6116	ppb	0.8232	22.8	-19.6784
V 292.401	359.377	ppb	0.3983	0.1	9376.32
Zn 206.200	305.792	ppb	3.2866	1.1	339.018

680-107114-d-13-aSD (Samp) **11/20/2014, 8:01:06 PM** **Rack 2, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	2.5848	2.5075	2.4558
Al 308.215	28295.6	28277.8	28183.7
As 188.980	2.5615	-0.2565u	2.5339
B 249.678	2.5731u	2.6668u	2.6001u
Ba 389.178	125.996	125.403	125.817
Be 313.042	0.9855	0.9976	0.9945
Ca 370.602	2083	2094	2093
Cd 226.502	0.4466	0.3070	0.2594
Co 228.615	6.0943	5.5521	5.8191
Cr 267.716	38.6175	38.4744	38.5762

Label	Replicates Concentration		
Cu 324.754	28.2887	28.1828	27.9565
Fe 271.441	21307.3	21342.5	21351.3
K 766.491	1576.68	1571.55	1571.92
Mg 279.078	1930.65	1932.51	1924.50
Mn 257.610	349.395	349.513	348.305
Mo 202.032	0.8782	1.4763	1.1320
Na 330.237	-89.5699u	61.6358u	43.5921u
Ni 231.604	10.3934	11.1665	11.6572
Pb 220.353	79.4537	80.6450	79.5245
Sb 206.834	0.2523	0.5238	1.3835
Se 196.026	-9.4611u	7.8647	5.2508
Sn 189.925	6.0764	5.7632	7.1972
Sr 216.596	10.9650	10.6884	10.5784
Ti 334.941	648.729	647.435	645.979
Tl 190.794	1.1456u	2.7559u	3.8573
V 292.401	74.0375	73.5959	74.0692
Zn 206.200	64.2951	63.0892	61.9296

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	2.5160	ppb	0.0649	2.6	181.778
Al 308.215	28252.4	ppb	60.0886	0.2	192212
As 188.980	1.6130	ppb	1.6191	100.4	-6.3632
B 249.678	2.6133	ppb	0.0482	1.8	52.6517
Ba 389.178	125.739	ppb	0.3041	0.2	2627.12
Be 313.042	0.9925	ppb	0.0063	0.6	1527.44
Ca 370.602	2090	ppb	6.408	0.3	5641
Cd 226.502	0.3377	ppb	0.0973	28.8	108.276
Co 228.615	5.8218	ppb	0.2711	4.7	80.7140
Cr 267.716	38.5560	ppb	0.0736	0.2	2124.08
Cu 324.754	28.1427	ppb	0.1697	0.6	2155.25
Fe 271.441	21333.7	ppb	23.2544	0.1	35208.5
K 766.491	1573.38	ppb	2.8611	0.2	65714.3
Mg 279.078	1929.22	ppb	4.1944	0.2	5282.62
Mn 257.610	349.071	ppb	0.6657	0.2	70749.5
Mo 202.032	1.1622	ppb	0.3002	25.8	12.5719
Na 330.237	5.2193	ppb	82.5841	1582.3	23.2281
Ni 231.604	11.0724	ppb	0.6371	5.8	30.2655
Pb 220.353	79.8744	ppb	0.6683	0.8	140.140
Sb 206.834	0.7199	ppb	0.5906	82.0	-2.7497
Se 196.026	1.2182	ppb	9.3404	766.8	-0.2886
Sn 189.925	6.3456	ppb	0.7540	11.9	-0.5396
Sr 216.596	10.7439	ppb	0.1992	1.9	172.512
Ti 334.941	647.381	ppb	1.3762	0.2	192230
Tl 190.794	2.5862	ppb	1.3638	52.7	-9.5725
V 292.401	73.9009	ppb	0.2645	0.4	1921.06
Zn 206.200	63.1046	ppb	1.1828	1.9	71.1069

680-107114-d-13-aPDS (Samp) **11/20/2014, 8:05:22 PM** **Rack 2, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	110.933	112.321	112.192
Al 308.215	139107	139614	139532
As 188.980	120.773	115.994	115.172

Label	Replicates Concentration		
B 249.678	203.541	204.464	204.457
Ba 389.178	698.981	701.318	699.124
Be 313.042	110.113	110.461	110.347
Ca 370.602	20044	20048	20049
Cd 226.502	104.190	104.551	103.687
Co 228.615	131.320	132.889	131.210
Cr 267.716	290.528	290.842	290.251
Cu 324.754	247.381	245.315	247.305
Fe 271.441	111544	111895	111751
K 766.491	18455.9	18517.5	18517.0
Mg 279.078	18787.2	18825.3	18794.3
Mn 257.610	2708.03	2716.42	2723.92
Mo 202.032	101.529	101.251	101.295
Na 330.237	9018.92	9203.49	9383.32
Ni 231.604	155.658	155.184	153.277
Pb 220.353	468.431	466.382	471.204
Sb 206.834	101.618	100.684	100.497
Se 196.026	106.302	98.6274	109.653
Sn 189.925	119.414	123.433	124.423
Sr 216.596	146.661	147.753	147.376
Ti 334.941	3159.49	3170.89	3169.15
Tl 190.794	29.9981	24.2211	23.5142
V 292.401	453.563	455.447	455.306
Zn 206.200	405.971	406.450	403.574

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	111.815	ppb	0.7666	0.7	9153.47
Al 308.215	139417	ppb	272.333	0.2	946805
As 188.980	117.313	ppb	3.0247	2.6	57.5844
B 249.678	204.154	ppb	0.5311	0.3	3193.83
Ba 389.178	699.808	ppb	1.3101	0.2	14888.2
Be 313.042	110.307	ppb	0.1776	0.2	201210
Ca 370.602	20047	ppb	2.426	0.0	53683
Cd 226.502	104.143	ppb	0.4342	0.4	4757.87
Co 228.615	131.806	ppb	0.9392	0.7	1592.09
Cr 267.716	290.540	ppb	0.2960	0.1	15751.1
Cu 324.754	246.667	ppb	1.1716	0.5	17058.5
Fe 271.441	111730	ppb	176.477	0.2	184337
K 766.491	18496.8	ppb	35.4339	0.2	769873
Mg 279.078	18802.3	ppb	20.2919	0.1	51327.8
Mn 257.610	2716.12	ppb	7.9528	0.3	549826
Mo 202.032	101.358	ppb	0.1494	0.1	688.006
Na 330.237	9201.91	ppb	182.203	2.0	404.862
Ni 231.604	154.706	ppb	1.2603	0.8	472.133
Pb 220.353	468.672	ppb	2.4205	0.5	774.204
Sb 206.834	100.933	ppb	0.6005	0.6	137.041
Se 196.026	104.861	ppb	5.6523	5.4	45.6868
Sn 189.925	122.423	ppb	2.6526	2.2	87.4367
Sr 216.596	147.264	ppb	0.5548	0.4	2053.93
Ti 334.941	3166.51	ppb	6.1425	0.2	940239
Tl 190.794	25.9111	ppb	3.5570	13.7	3.1683
V 292.401	454.772	ppb	1.0494	0.2	11847.9
Zn 206.200	405.331	ppb	1.5409	0.4	449.726

680-107114-d-13-b ms (Samp) **11/20/2014, 8:09:39 PM** **Rack 2, Tube 9**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	55.7617	54.9922	54.7246
Al 308.215	166661	166403	166408
As 188.980	102.369	117.692	103.944
B 249.678	173.537	173.471	174.202
Ba 389.178	529.731	529.830	529.609
Be 313.042	59.7980	59.5425	59.5304
Ca 370.602	10475	10394	10378
Cd 226.502	53.1330	53.1417	53.7117
Co 228.615	72.9448	73.0268	73.4233
Cr 267.716	375.929	374.967	374.151
Cu 324.754	226.916	227.222	225.933
Fe 271.441	109019	108713	108711
K 766.491	12269.1	12267.2	12229.0
Mg 279.078	12857.4	12819.1	12835.6
Mn 257.610	1150.27	1147.30	1152.28
Mo 202.032	72.5692	71.4239	71.6680
Na 330.237	5468.58	5241.81	5116.86
Ni 231.604	170.406	169.818	169.435
Pb 220.353	678.989	673.733	672.783
Sb 206.834	15.2949	18.0092	15.5368
Se 196.026	92.1127	85.7606	80.9499
Sn 189.925	205.464	203.322	204.205
Sr 216.596	128.401	127.785	128.270
Ti 334.941	3001.64	2994.99	2989.81
Tl 190.794	46.7808	47.6413	43.8452
V 292.401	698.849	695.535	694.709
Zn 206.200	280.579	277.272	277.462

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	55.1595	ppb	0.5384	1.0	4493.60
Al 308.215	166491	ppb	147.196	0.1	1130597
As 188.980	108.002	ppb	8.4288	7.8	52.4191
B 249.678	173.737	ppb	0.4043	0.2	2693.82
Ba 389.178	529.723	ppb	0.1107	0.0	11271.8
Be 313.042	59.6237	ppb	0.1511	0.3	108654
Ca 370.602	10416	ppb	52.19	0.5	27959
Cd 226.502	53.3288	ppb	0.3316	0.6	2631.52
Co 228.615	73.1316	ppb	0.2559	0.3	912.304
Cr 267.716	375.016	ppb	0.8900	0.2	20289.5
Cu 324.754	226.690	ppb	0.6733	0.3	15693.7
Fe 271.441	108814	ppb	176.843	0.2	179523
K 766.491	12255.1	ppb	22.6107	0.2	510165
Mg 279.078	12837.4	ppb	19.1715	0.1	35039.9
Mn 257.610	1149.95	ppb	2.5016	0.2	233039
Mo 202.032	71.8870	ppb	0.6032	0.8	487.837
Na 330.237	5275.75	ppb	178.299	3.4	233.692
Ni 231.604	169.886	ppb	0.4889	0.3	517.972
Pb 220.353	675.168	ppb	3.3427	0.5	1108.24
Sb 206.834	16.2803	ppb	1.5021	9.2	23.1105
Se 196.026	86.2744	ppb	5.5991	6.5	37.3100
Sn 189.925	204.330	ppb	1.0766	0.5	149.511
Sr 216.596	128.152	ppb	0.3244	0.3	1800.48

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	2995.48	ppb	5.9334	0.2	889448
Tl 190.794	46.0891	ppb	1.9903	4.3	24.4601
V 292.401	696.364	ppb	2.1909	0.3	18175.2
Zn 206.200	278.438	ppb	1.8568	0.7	307.848

680-107114-d-13-c ms (Samp) **11/20/2014, 8:13:55 PM** **Rack 2, Tube 10**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	61.0725	60.2185	60.3557
Al 308.215	171821	172518	171800
As 188.980	115.395	116.857	116.549
B 249.678	174.011	174.860	174.097
Ba 389.178	735.521	734.573	734.774
Be 313.042	59.7297	59.9314	59.8413
Ca 370.602	14724	14794	14759
Cd 226.502	53.9343	54.3512	54.1224
Co 228.615	80.2866	81.1829	80.0984
Cr 267.716	334.534	335.560	335.341
Cu 324.754	248.163	247.220	247.300
Fe 271.441	106090	106467	106185
K 766.491	13557.0	13669.5	13601.9
Mg 279.078	13866.2	13901.1	13864.6
Mn 257.610	1939.07	1944.99	1940.94
Mo 202.032	77.4597	77.3372	76.9296
Na 330.237	5176.63	5253.78	5220.38
Ni 231.604	167.182	167.845	166.862
Pb 220.353	803.178	808.173	802.647
Sb 206.834	16.1667	10.8984	14.2729
Se 196.026	90.7745	97.9049	86.7271
Sn 189.925	206.284	207.658	218.817
Sr 216.596	147.610	148.526	148.137
Ti 334.941	3101.71	3116.38	3107.65
Tl 190.794	42.7794	41.6710	43.2021
V 292.401	496.253	497.720	497.634
Zn 206.200	384.679	382.775	386.503

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	60.5489	ppb	0.4586	0.8	4939.61
Al 308.215	172046	ppb	408.885	0.2	1168278
As 188.980	116.267	ppb	0.7707	0.7	57.0381
B 249.678	174.323	ppb	0.4669	0.3	2709.69
Ba 389.178	734.956	ppb	0.4991	0.1	15618.9
Be 313.042	59.8341	ppb	0.1010	0.2	109028
Ca 370.602	14759	ppb	35.01	0.2	39614
Cd 226.502	54.1360	ppb	0.2088	0.4	2655.20
Co 228.615	80.5226	ppb	0.5795	0.7	999.500
Cr 267.716	335.145	ppb	0.5404	0.2	18147.2
Cu 324.754	247.561	ppb	0.5227	0.2	17115.6
Fe 271.441	106247	ppb	196.073	0.2	175288
K 766.491	13609.5	ppb	56.6236	0.4	566518
Mg 279.078	13877.3	ppb	20.6115	0.1	37864.9
Mn 257.610	1941.67	ppb	3.0267	0.2	393152
Mo 202.032	77.2422	ppb	0.2775	0.4	524530

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	5216.93	ppb	38.6912	0.7	229.604
Ni 231.604	167.296	ppb	0.5012	0.3	509.897
Pb 220.353	804.666	ppb	3.0490	0.4	1317.96
Sb 206.834	13.7793	ppb	2.6686	19.4	19.0660
Se 196.026	91.8022	ppb	5.6593	6.2	39.8423
Sn 189.925	210.920	ppb	6.8737	3.3	154.505
Sr 216.596	148.091	ppb	0.4599	0.3	2054.56
Ti 334.941	3108.58	ppb	7.3794	0.2	923032
Tl 190.794	42.5508	ppb	0.7907	1.9	21.2032
V 292.401	497.202	ppb	0.8232	0.2	12963.0
Zn 206.200	384.652	ppb	1.8640	0.5	426.726

680-107114-d-11-a (Samp) **11/20/2014, 8:18:12 PM** **Rack 2, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.9025u	-1.6224u	-0.5666u
Al 308.215	221345	220657	220963
As 188.980	7.1312	9.4761	11.0089
B 249.678	10.1138u	9.4138u	9.9076u
Ba 389.178	879.497	880.526	881.388
Be 313.042	15.4246	15.4448	15.4353
Ca 370.602	2705	2709	2709
Cd 226.502	-0.4038	-0.4884	-0.5370
Co 228.615	76.5900	77.7069	76.3513
Cr 267.716	271.865	271.924	272.028
Cu 324.754	230.021	226.898	228.325
Fe 271.441	241139	241706	241747
K 766.491	28927.4	28983.2	29058.9
Mg 279.078	29562.8	29569.8	29520.1
Mn 257.610	3536.95	3539.40	3534.43
Mo 202.032	2.6403	1.3416u	2.3854
Na 330.237	360.274u	103.149u	108.310u
Ni 231.604	80.6596	80.2545	79.3176
Pb 220.353	164.093	161.307	169.538
Sb 206.834	5.3427	5.9419	0.7172
Se 196.026	-14.6325u	-3.1401	12.9739
Sn 189.925	17.5635	13.5091	13.9019
Sr 216.596	18.8358	19.0284	19.4662
Ti 334.941	9144.83	9165.39	9155.71
Tl 190.794	6.2106u	12.4193u	4.4873u
V 292.401	658.346	660.501	661.014
Zn 206.200	365.353	363.119	360.838

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0305	ppb	0.5394	52.3	-128.904
Al 308.215	220989	ppb	344.718	0.2	1500509
As 188.980	9.2054	ppb	1.9530	21.2	-3.3450
B 249.678	9.8117	ppb	0.3597	3.7	-337.343
Ba 389.178	880.470	ppb	0.9467	0.1	18831.4
Be 313.042	15.4349	ppb	0.0101	0.1	27947.5
Ca 370.602	2708	ppb	2.129	0.1	8749
Cd 226.502	-0.4764	ppb	0.0674	14.2	867.046
Co 228.615	76.8828	ppb	0.7236	0.9	1098.30

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	271.939	ppb	0.0825	0.0	14827.8
Cu 324.754	228.415	ppb	1.5632	0.7	15862.4
Fe 271.441	241531	ppb	339.887	0.1	398442
K 766.491	28989.8	ppb	66.0266	0.2	1206471
Mg 279.078	29550.9	ppb	26.8970	0.1	80670.1
Mn 257.610	3536.93	ppb	2.4858	0.1	716262
Mo 202.032	2.1224	ppb	0.6882	32.4	8.1018
Na 330.237	190.578	ppb	146.984	77.1	-23.0205
Ni 231.604	80.0773	ppb	0.6883	0.9	257.347
Pb 220.353	164.979	ppb	4.1864	2.5	286.860
Sb 206.834	4.0006	ppb	2.8593	71.5	8.5276
Se 196.026	-1.5996	ppb	13.8675	867.0	1.0604
Sn 189.925	14.9915	ppb	2.2361	14.9	6.0124
Sr 216.596	19.1101	ppb	0.3230	1.7	586.328
Ti 334.941	9155.31	ppb	10.2837	0.1	2718433
Tl 190.794	7.7057	ppb	4.1720	54.1	-34.7202
V 292.401	659.954	ppb	1.4156	0.2	17236.4
Zn 206.200	363.104	ppb	2.2576	0.6	397.840

680-107114-d-12-a (Samp) **11/20/2014, 8:22:29 PM** **Rack 2, Tube 12**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.2780u	-2.4823u	-2.4900u
Al 308.215	256337	256698	256251
As 188.980	12.4964	5.2248	13.2058
B 249.678	5.4096u	4.3124u	4.9162u
Ba 389.178	1190.05	1189.02	1189.25
Be 313.042	20.3830	20.3629	20.3615
Ca 370.602	1667	1650	1632
Cd 226.502	-0.3753	-0.8608	-0.8338
Co 228.615	96.7360	95.9032	96.1131
Cr 267.716	309.661	309.301	309.552
Cu 324.754	197.629	197.431	195.354
Fe 271.441	262366	262270	262574
K 766.491	47328.4x	47326.1x	47198.4x
Mg 279.078	46470.8	46547.3	46598.5
Mn 257.610	4477.11	4478.22	4467.17
Mo 202.032	2.3911	1.7125u	1.5243u
Na 330.237	238.873u	78.8267u	217.625u
Ni 231.604	101.438	102.496	99.8433
Pb 220.353	153.527	155.542	150.049
Sb 206.834	-5.0517	3.6650	0.9135
Se 196.026	2.1921	4.7190	-5.1403
Sn 189.925	11.5674	17.4677	13.9029
Sr 216.596	25.7052	26.2371	25.1984
Ti 334.941	13010.1	12976.8	12988.7
Tl 190.794	10.8266u	12.0387u	12.0683u
V 292.401	674.175	674.826	675.717
Zn 206.200	420.858	422.866	423.461

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.0834b	ppb	0.6976	33.5	-214.533
Al 308.215	256429b	ppb	237.313	0.1	1741062

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	10.3090b	ppb	4.4174	42.8	-2.8449
B 249.678	4.8794b	ppb	0.5495	11.3	-467.580
Ba 389.178	1189.44b	ppb	0.5414	0.0	25425.0
Be 313.042	20.3691b	ppb	0.0120	0.1	36961.4
Ca 370.602	1650b	ppb	17.57	1.1	7345
Cd 226.502	-0.6900b	ppb	0.2728	39.5	928.381
Co 228.615	96.2508b	ppb	0.4332	0.5	1405.74
Cr 267.716	309.504b	ppb	0.1848	0.1	16874.0
Cu 324.754	196.805b	ppb	1.2604	0.6	13719.8
Fe 271.441	262403b	ppb	155.489	0.1	432875
K 766.491	47284.3xb	ppb	74.3778	0.2	1967676
Mg 279.078	46538.9b	ppb	64.2766	0.1	127088
Mn 257.610	4474.17b	ppb	6.0824	0.1	905985
Mo 202.032	1.8760b	ppb	0.4559	24.3	5.4295
Na 330.237	178.442b	ppb	86.9207	48.7	-29.4557
Ni 231.604	101.259b	ppb	1.3356	1.3	323.132
Pb 220.353	153.039b	ppb	2.7785	1.8	266.621
Sb 206.834	-0.1577b	ppb	4.4560	2825.6	3.7114
Se 196.026	0.5903b	ppb	5.1211	867.6	2.3833
Sn 189.925	14.3127b	ppb	2.9714	20.8	5.4978
Sr 216.596	25.7136b	ppb	0.5194	2.0	699.213
Ti 334.941	12991.9b	ppb	16.8726	0.1	3857591
Tl 190.794	11.6446b	ppb	0.7085	6.1	-33.1610
V 292.401	674.906b	ppb	0.7739	0.1	17646.4
Zn 206.200	422.395b	ppb	1.3637	0.3	463.257

Cont Calib Verif (CCV) **11/20/2014, 8:26:46 PM** **Rack 2, Tube 13**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	499.328	502.295	501.949
Al 308.215	4907.59	4910.48	4918.11
As 188.980	489.343	490.259	495.538
B 249.678	488.721	491.539	495.912
Ba 389.178	5229.46	5239.76	5249.92
Be 313.042	522.478	524.169	525.447
Ca 370.602	4951	4971	4958
Cd 226.502	525.052	523.823	525.453
Co 228.615	529.412	531.727	530.394
Cr 267.716	5224.42	5233.01	5239.14
Cu 324.754	5275.82	5360.54	5274.26
Fe 271.441	4969.42	4957.83	4964.44
K 766.491	10216.6	10252.4	10276.9
Mg 279.078	4952.54	4948.67	4961.47
Mn 257.610	5318.67	5335.41	5318.66
Mo 202.032	497.077	495.934	498.195
Na 330.237	7477.63	7582.19	7565.98
Ni 231.604	2602.36	2598.91	2611.11
Pb 220.353	499.230	491.233	495.453
Sb 206.834	976.913	980.404	990.656
Se 196.026	4873.54	4885.90	4889.61
Sn 189.925	4940.84	4945.18	4977.53
Sr 216.596	2492.70	2477.74	2480.92
Ti 334.941	499.324	499.464	500.407

Label	Replicates Concentration		
Tl 190.794	5050.64	5030.67	5030.48
V 292.401	4933.34	4936.08	4946.34
Zn 206.200	2630.21	2631.00	2627.11

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	501.191	ppb	1.6222	0.3	41102.3	100.23813
Al 308.215	4912.06	ppb	5.4347	0.1	34452.5	98.24121
As 188.980	491.714	ppb	3.3438	0.7	266.696	98.34270
B 249.678	492.058	ppb	3.6235	0.7	8237.76	98.41151
Ba 389.178	5239.71	ppb	10.2315	0.2	110962	104.79422
Be 313.042	524.031	ppb	1.4895	0.3	957059	104.80626
Ca 370.602	4960	ppb	10.01	0.2	13538	99.20510
Cd 226.502	524.776	ppb	0.8497	0.2	21887.5	104.95518
Co 228.615	530.511	ppb	1.1619	0.2	6125.03	106.10219
Cr 267.716	5232.19	ppb	7.3928	0.1	281790	104.64375
Cu 324.754	5303.54	ppb	49.3708	0.9	361037	106.07077
Fe 271.441	4963.90	ppb	5.8176	0.1	8313.25	99.27796
K 766.491	10248.6	ppb	30.3374	0.3	426679	102.48646
Mg 279.078	4954.23	ppb	6.5660	0.1	13459.8	99.08456
Mn 257.610	5324.24	ppb	9.6720	0.2	1076884	106.48489
Mo 202.032	497.069	ppb	1.1303	0.2	3374.07	99.41371
Na 330.237	7541.93	ppb	56.2766	0.7	311.604	100.55912
Ni 231.604	2604.13	ppb	6.2902	0.2	7873.05	104.16512
Pb 220.353	495.305	ppb	4.0004	0.8	817.354	99.06103
Sb 206.834	982.658	ppb	7.1434	0.7	1393.37	98.26578
Se 196.026	4883.02	ppb	8.4161	0.2	2105.91	97.66036
Sn 189.925	4954.52	ppb	20.0485	0.4	3749.61	99.09040
Sr 216.596	2483.79	ppb	7.8824	0.3	31826.9	99.35153
Ti 334.941	499.732	ppb	0.5891	0.1	148393	99.94635
Tl 190.794	5037.26	ppb	11.5873	0.2	5316.39	100.74525
V 292.401	4938.58	ppb	6.8498	0.1	128977	98.77170
Zn 206.200	2629.44	ppb	2.0543	0.1	2928.72	105.17756

Cont Calib Blank (CCB) **11/20/2014, 8:31:01 PM** **Rack 2, Tube 14**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0164	0.0651	0.5068
Al 308.215	2.7874	3.1464	3.1726
As 188.980	3.0578	1.6695	1.5558
B 249.678	7.7346	6.7717	5.3093
Ba 389.178	-0.2174u	-0.0539u	0.8098
Be 313.042	0.0115	0.0149	0.0204
Ca 370.602	7.088	10.79	5.077
Cd 226.502	0.0562	0.1196	0.1206
Co 228.615	0.6652	0.0572	0.7437
Cr 267.716	0.2634	0.1283	0.2776
Cu 324.754	-0.2976u	-0.1905u	-0.2045u
Fe 271.441	4.9368	0.7318	10.5524
K 766.491	1.6417	2.0769	2.3106
Mg 279.078	1.6884	-2.1383u	0.6073
Mn 257.610	0.1793	0.3051	0.3619
Mo 202.032	0.3160	0.4657	-0.1511u
Na 330.237	27.8102	-33.9176u	67.4586

Label	Replicates Concentration		
Ni 231.604	-0.0739u	-0.5181u	0.6580
Pb 220.353	3.1622	2.3464	0.6489
Sb 206.834	2.6288	7.7533	4.4680
Se 196.026	-3.7987u	-1.0301u	1.1531
Sn 189.925	2.8178	1.6963	-0.2735u
Sr 216.596	0.2264	0.5988	0.1859
Ti 334.941	0.4838	0.4465	0.4210
Tl 190.794	4.0915	2.2658	1.2676
V 292.401	0.3428	0.1598	-0.0413u
Zn 206.200	-0.1034u	-0.1182u	-1.0055u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1961	ppb	0.2702	137.8	-6.9009	0.19610
Al 308.215	3.0355	ppb	0.2152	7.1	457.693	3.03546
As 188.980	2.0944	ppb	0.8363	39.9	-5.9774	2.09438
B 249.678	6.6052	ppb	1.2212	18.5	168.346	6.60517
Ba 389.178	0.1795	ppb	0.5519	307.5	-52.1475	0.17949
Be 313.042	0.0156	ppb	0.0045	28.8	-263.347	0.01559
Ca 370.602	7.651	ppb	2.897	37.9	26.26	7.65130
Cd 226.502	0.0988	ppb	0.0369	37.4	21.3265	0.09881
Co 228.615	0.4887	ppb	0.3758	76.9	3.8092	0.48872
Cr 267.716	0.2231	ppb	0.0824	36.9	46.8409	0.22311
Cu 324.754	-0.2309	ppb	0.0582	25.2	217.106	-0.23085
Fe 271.441	5.4070	ppb	4.9271	91.1	25.8090	5.40700
K 766.491	2.0097	ppb	0.3395	16.9	331.799	2.00973
Mg 279.078	0.0525	ppb	1.9728	3760.8	25.6216	0.05246
Mn 257.610	0.2821	ppb	0.0935	33.1	138.504	0.28211
Mo 202.032	0.2102	ppb	0.3217	153.1	7.1916	0.21018
Na 330.237	20.4504	ppb	51.0873	249.8	29.8347	20.45039
Ni 231.604	0.0220	ppb	0.5939	2696.8	-4.9477	0.02202
Pb 220.353	2.0525	ppb	1.2822	62.5	13.1642	2.05250
Sb 206.834	4.9500	ppb	2.5960	52.4	2.1755	4.95000
Se 196.026	-1.2253	ppb	2.4817	202.5	-1.5991	-1.22528
Sn 189.925	1.4135	ppb	1.5649	110.7	-4.2775	1.41354
Sr 216.596	0.3370	ppb	0.2276	67.5	8.4793	0.33703
Ti 334.941	0.4505	ppb	0.0316	7.0	140.489	0.45047
Tl 190.794	2.5416	ppb	1.4320	56.3	-6.7014	2.54163
V 292.401	0.1537	ppb	0.1921	125.0	-4.8367	0.15374
Zn 206.200	-0.4090	ppb	0.5166	126.3	0.9873	-0.40902

680-107114-d-14-a (Samp) **11/20/2014, 8:35:17 PM** **Rack 2, Tube 15**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.9486u	-1.2867u	-1.1031u
Al 308.215	92613.8	92701.5	92456.2
As 188.980	2.3151	1.1049	-0.4684u
B 249.678	3.9897	4.1177	3.7367
Ba 389.178	228.458	227.841	226.045
Be 313.042	3.3854	3.3818	3.3626
Ca 370.602	182.7	185.7	178.2
Cd 226.502	-0.0277	0.0287	-0.0254
Co 228.615	6.0309	5.3772	5.8721
Cr 267.716	234.920	234.956	234.640

Label	Replicates Concentration		
Cu 324.754	52.6030	53.0956	52.5470
Fe 271.441	20306.9	20351.9	20276.9
K 766.491	2892.24	2894.18	2889.03
Mg 279.078	2822.00	2823.62	2822.79
Mn 257.610	100.263	100.350	100.043
Mo 202.032	0.8975	0.5752	0.4406
Na 330.237	418.991	340.026	235.191
Ni 231.604	22.4398	22.8772	23.4062
Pb 220.353	93.4330	88.6191	90.5494
Sb 206.834	-0.0796	-1.1498	0.2132
Se 196.026	-10.8388u	-5.9147u	-6.0823u
Sn 189.925	7.3306	12.2919	9.1287
Sr 216.596	12.6121	12.8150	11.9738
Ti 334.941	1196.86	1199.36	1194.55
Tl 190.794	1.4262u	5.6362	0.4747u
V 292.401	217.837	218.029	217.285
Zn 206.200	65.7321	64.4452	63.9092

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1128	ppb	0.1693	15.2	-116.763
Al 308.215	92590.5	ppb	124.281	0.1	628925
As 188.980	0.9839	ppb	1.3957	141.9	-6.7080
B 249.678	3.9480	ppb	0.1939	4.9	77.1937
Ba 389.178	227.448	ppb	1.2535	0.6	4782.91
Be 313.042	3.3766	ppb	0.0123	0.4	5895.30
Ca 370.602	182.2	ppb	3.796	2.1	793.2
Cd 226.502	-0.0081	ppb	0.0319	392.7	89.2531
Co 228.615	5.7601	ppb	0.3409	5.9	92.1580
Cr 267.716	234.839	ppb	0.1733	0.1	12693.7
Cu 324.754	52.7485	ppb	0.3018	0.6	3827.02
Fe 271.441	20311.9	ppb	37.7535	0.2	33524.6
K 766.491	2891.81	ppb	2.6008	0.1	120572
Mg 279.078	2822.80	ppb	0.8114	0.0	7706.68
Mn 257.610	100.219	ppb	0.1582	0.2	20426.2
Mo 202.032	0.6378	ppb	0.2348	36.8	8.9026
Na 330.237	331.403	ppb	92.2031	27.8	37.8843
Ni 231.604	22.9077	ppb	0.4839	2.1	66.0141
Pb 220.353	90.8672	ppb	2.4226	2.7	156.795
Sb 206.834	-0.3387	ppb	0.7175	211.8	-1.7626
Se 196.026	-7.6119	ppb	2.7958	36.7	-4.1588
Sn 189.925	9.5838	ppb	2.5117	26.2	1.9147
Sr 216.596	12.4670	ppb	0.4390	3.5	192.121
Ti 334.941	1196.93	ppb	2.4078	0.2	355402
Tl 190.794	2.5124	ppb	2.7468	109.3	-9.3852
V 292.401	217.717	ppb	0.3862	0.2	5682.12
Zn 206.200	64.6955	ppb	0.9368	1.4	72.5092

680-107114-d-15-a (Samp) **11/20/2014, 8:39:33 PM** **Rack 2, Tube 16**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.1033u	-1.6495u	-1.3557u
Al 308.215	223239	223695	223510
As 188.980	26.8169	32.2668	23.6914

Label	Replicates Concentration		
B 249.678	9.5948u	8.8859u	9.4682u
Ba 389.178	577.256	578.929	576.641
Be 313.042	6.3183	6.3362	6.3388
Ca 370.602	1435	1444	1437
Cd 226.502	0.0601	0.2975	-0.0170
Co 228.615	63.5822	64.8145	64.4282
Cr 267.716	170.129	170.675	170.915
Cu 324.754	118.339	118.605	118.722
Fe 271.441	148269	148746	148616
K 766.491	10958.8	10973.4	10977.0
Mg 279.078	13039.7	13068.7	13059.3
Mn 257.610	2128.83	2136.72	2131.64
Mo 202.032	4.0068	4.5384	4.7715
Na 330.237	95.1044u	-23.7101u	-133.733u
Ni 231.604	57.8840	56.6157	56.9406
Pb 220.353	3230.08	3239.75	3233.65
Sb 206.834	7.8480	8.9896	3.4656
Se 196.026	-2.1296	9.9850	11.9428
Sn 189.925	14.3650	14.9593	10.6646
Sr 216.596	26.4625	27.1737	26.1721
Ti 334.941	4832.73	4859.49	4844.59
Tl 190.794	7.4887u	9.1419u	5.9594u
V 292.401	358.457	359.090	359.270
Zn 206.200	239.009	241.783	241.178

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3695	ppb	0.2734	20.0	-148.831
Al 308.215	223481	ppb	229.155	0.1	1517377
As 188.980	27.5917	ppb	4.3399	15.7	7.4112
B 249.678	9.3163	ppb	0.3781	4.1	-130.405
Ba 389.178	577.609	ppb	1.1842	0.2	12314.7
Be 313.042	6.3311	ppb	0.0112	0.2	11305.7
Ca 370.602	1439	ppb	4.814	0.3	4456
Cd 226.502	0.1135	ppb	0.1639	144.4	558.142
Co 228.615	64.2750	ppb	0.6303	1.0	854.051
Cr 267.716	170.573	ppb	0.4028	0.2	9311.45
Cu 324.754	118.555	ppb	0.1960	0.2	8354.36
Fe 271.441	148544	ppb	246.929	0.2	245053
K 766.491	10969.7	ppb	9.6430	0.1	456682
Mg 279.078	13055.9	ppb	14.7900	0.1	35595.3
Mn 257.610	2132.40	ppb	3.9981	0.2	431837
Mo 202.032	4.4389	ppb	0.3919	8.8	28.5225
Na 330.237	-20.7796	ppb	114.447	550.8	-9.4461
Ni 231.604	57.1468	ppb	0.6588	1.2	180.239
Pb 220.353	3234.49	ppb	4.8901	0.2	5258.01
Sb 206.834	6.7677	ppb	2.9162	43.1	9.3432
Se 196.026	6.5994	ppb	7.6227	115.5	3.5006
Sn 189.925	13.3296	ppb	2.3270	17.5	4.7531
Sr 216.596	26.6028	ppb	0.5153	1.9	552.574
Ti 334.941	4845.60	ppb	13.4084	0.3	1438782
Tl 190.794	7.5300	ppb	1.5916	21.1	-22.0894
V 292.401	358.939	ppb	0.4267	0.1	9361.08
Zn 206.200	240.657	ppb	1.4584	0.6	264.606

680-107114-d-16-a (Samp) **11/20/2014, 8:43:48 PM** **Rack 2, Tube 17**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-2.7991u	-2.6815u	-3.1814u
Al 308.215	253450	252301	251954
As 188.980	5.7817	8.2925	10.4858
B 249.678	1.3734u	1.0354u	1.6841u
Ba 389.178	1335.14	1329.81	1330.42
Be 313.042	7.3250	7.3123	7.2834
Ca 370.602	96.32	86.56	89.24
Cd 226.502	0.4838	0.6550	0.3862
Co 228.615	78.5602	78.4020	79.7049
Cr 267.716	9.1987	9.2705	9.1230
Cu 324.754	219.674	216.126	217.409
Fe 271.441	36016.6	35986.7	35973.4
K 766.491	7976.93	7965.38	7928.16
Mg 279.078	3783.40	3782.55	3777.77
Mn 257.610	6198.12	6199.21	6173.86
Mo 202.032	3.5013	3.2678	3.1183
Na 330.237	135.318u	198.689u	26.2961u
Ni 231.604	25.4665	25.6637	26.4587
Pb 220.353	228.999	232.785	231.502
Sb 206.834	-4.8502u	0.8535	0.9744
Se 196.026	-4.7470u	-3.2461	-7.6506u
Sn 189.925	8.3856	11.4811	8.3875
Sr 216.596	9.1269	9.4524	9.1946
Ti 334.941	1613.14	1606.07	1603.49
Tl 190.794	3.9352	-0.7194u	4.1043
V 292.401	64.1294	63.8926	64.4264
Zn 206.200	266.858	265.454	272.784

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.8873	ppb	0.2613	9.1	-234.165
Al 308.215	252568	ppb	783.310	0.3	1714752
As 188.980	8.1867	ppb	2.3539	28.8	-2.7818
B 249.678	1.3643	ppb	0.3245	23.8	-2.1633
Ba 389.178	1331.79	ppb	2.9163	0.2	28189.0
Be 313.042	7.3069	ppb	0.0213	0.3	13077.1
Ca 370.602	90.71	ppb	5.041	5.6	711.2
Cd 226.502	0.5083	ppb	0.1361	26.8	167.676
Co 228.615	78.8890	ppb	0.7110	0.9	945.270
Cr 267.716	9.1974	ppb	0.0738	0.8	582.748
Cu 324.754	217.736	ppb	1.7964	0.8	15061.3
Fe 271.441	35992.2	ppb	22.1467	0.1	59396.8
K 766.491	7956.82	ppb	25.4874	0.3	331319
Mg 279.078	3781.24	ppb	3.0350	0.1	10140.5
Mn 257.610	6190.40	ppb	14.3332	0.2	1252128
Mo 202.032	3.2958	ppb	0.1930	5.9	26.3727
Na 330.237	120.101	ppb	87.1979	72.6	21.0748
Ni 231.604	25.8630	ppb	0.5253	2.0	76.1603
Pb 220.353	231.095	ppb	1.9259	0.8	383.738
Sb 206.834	-1.0074	ppb	3.3284	330.4	-5.2305
Se 196.026	-5.2146	ppb	2.2392	42.9	-1.6840
Sn 189.925	9.4180	ppb	1.7866	19.0	1.7890
Sr 216.596	9.2580	ppb	0.1717	1.9	172.764

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	1607.56	ppb	4.9963	0.3	477337
Tl 190.794	2.4400	ppb	2.7375	112.2	-8.9132
V 292.401	64.1494	ppb	0.2675	0.4	1666.74
Zn 206.200	268.366	ppb	3.8902	1.4	300.013

680-107114-a-18-a (Samp) **11/20/2014, 8:48:04 PM** **Rack 2, Tube 18**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.5584	0.0528u	-0.0696u
Al 308.215	279554	279141	279107
As 188.980	29.4078	24.8657	21.2953
B 249.678	8.7114u	8.6466u	9.8670u
Ba 389.178	652.031	651.510	652.557
Be 313.042	6.8726	6.8839	6.8737
Ca 370.602	4490	4486	4480
Cd 226.502	3.5094	3.1712	3.5834
Co 228.615	84.7454	84.7924	84.3139
Cr 267.716	322.056	322.318	321.990
Cu 324.754	174.600	176.149	174.810
Fe 271.441	265177	265383	264993
K 766.491	12532.1	12537.8	12577.7
Mg 279.078	13277.3	13265.5	13256.0
Mn 257.610	3083.51	3081.84	3093.02
Mo 202.032	2.7087	4.6451	2.9237
Na 330.237	224.321u	225.985u	132.671u
Ni 231.604	62.2430	65.2664	64.6720
Pb 220.353	205.996	209.608	207.454
Sb 206.834	-2.3452	-1.5128	-0.9284
Se 196.026	9.7326	6.0622	-3.1393
Sn 189.925	20.2057	23.6033	18.8641
Sr 216.596	27.3596	28.0706	28.5212
Ti 334.941	6108.93	6115.97	6115.46
Tl 190.794	6.8593u	8.1268u	4.5262u
V 292.401	771.408	771.894	769.359
Zn 206.200	332.965	332.837	329.465

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1805	ppb	0.3329	184.4	-35.1217
Al 308.215	279268	ppb	248.856	0.1	1896093
As 188.980	25.1896	ppb	4.0659	16.1	5.4315
B 249.678	9.0750	ppb	0.6866	7.6	-404.250
Ba 389.178	652.033	ppb	0.5232	0.1	13977.9
Be 313.042	6.8767	ppb	0.0062	0.1	12328.4
Ca 370.602	4486	ppb	5.312	0.1	11988
Cd 226.502	3.4213	ppb	0.2198	6.4	1120.55
Co 228.615	84.6172	ppb	0.2638	0.3	1124.27
Cr 267.716	322.121	ppb	0.1735	0.1	17532.4
Cu 324.754	175.186	ppb	0.8401	0.5	12248.8
Fe 271.441	265184	ppb	195.189	0.1	437460
K 766.491	12549.2	ppb	24.8344	0.2	522401
Mg 279.078	13266.3	ppb	10.6520	0.1	36129.6
Mn 257.610	3086.12	ppb	6.0274	0.2	625042
Mo 202.032	3.4258	ppb	1.0613	31.0	15.7214

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	194.326	ppb	53.4012	27.5	-27.3053
Ni 231.604	64.0605	ppb	1.6018	2.5	210.880
Pb 220.353	207.686	ppb	1.8169	0.9	358.427
Sb 206.834	-1.5955	ppb	0.7120	44.6	1.9160
Se 196.026	4.2185	ppb	6.6311	157.2	3.6726
Sn 189.925	20.8910	ppb	2.4428	11.7	10.4836
Sr 216.596	27.9838	ppb	0.5857	2.1	734.364
Ti 334.941	6113.45	ppb	3.9226	0.1	1815241
Tl 190.794	6.5041	ppb	1.8264	28.1	-39.5988
V 292.401	770.887	ppb	1.3457	0.2	20107.5
Zn 206.200	331.756	ppb	1.9848	0.6	361.842

680-107114-c-19-a (Samp) **11/20/2014, 8:52:20 PM** **Rack 2, Tube 19**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.5549u	-1.0453u	-0.7117u
Al 308.215	266517	267029	267115
As 188.980	26.4698	15.8379	23.3053
B 249.678	6.2354u	7.3233u	6.8566u
Ba 389.178	515.427	514.535	514.676
Be 313.042	8.0921	8.1106	8.0972
Ca 370.602	4216	4199	4212
Cd 226.502	-0.2740	0.2121	0.6657
Co 228.615	67.0661	67.2282	66.9865
Cr 267.716	583.240	583.015	582.484
Cu 324.754	170.909	171.478	171.906
Fe 271.441	322534	322292	321879
K 766.491	10829.7	10857.6	10840.3
Mg 279.078	11188.2	11172.5	11178.6
Mn 257.610	2683.22	2683.14	2687.16
Mo 202.032	2.6410	3.0347	3.0465
Na 330.237	438.134u	612.626u	604.563u
Ni 231.604	50.9446	52.0166	50.6600
Pb 220.353	121.614	124.425	124.649
Sb 206.834	-1.7143	-5.6524	1.0762
Se 196.026	5.7470	-6.7273	0.4699
Sn 189.925	20.3811	18.4365	15.1140
Sr 216.596	21.7024	22.2069	21.9001
Ti 334.941	6009.74	6008.68	6002.87
Tl 190.794	2.1553u	7.7405u	5.9430u
V 292.401	800.813	801.276	800.818
Zn 206.200	213.817	205.170	212.873

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.7706	ppb	0.2504	32.5	-124.637
Al 308.215	266887	ppb	323.152	0.1	1812072
As 188.980	21.8710	ppb	5.4592	25.0	3.2673
B 249.678	6.8051	ppb	0.5458	8.0	-574.414
Ba 389.178	514.879	ppb	0.4793	0.1	11110.5
Be 313.042	8.1000	ppb	0.0096	0.1	14561.9
Ca 370.602	4209	ppb	8.868	0.2	10645
Cd 226.502	0.2013	ppb	0.4700	233.5	1196.19
Co 228.615	67.0936	ppb	0.1232	0.2	924.456

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	582.913	ppb	0.3879	0.1	31602.3
Cu 324.754	171.431	ppb	0.5004	0.3	12015.9
Fe 271.441	322235	ppb	331.447	0.1	531565
K 766.491	10842.5	ppb	14.1120	0.1	451390
Mg 279.078	11179.7	ppb	7.8975	0.1	30437.3
Mn 257.610	2684.51	ppb	2.2986	0.1	543966
Mo 202.032	2.9074	ppb	0.2308	7.9	9.4798
Na 330.237	551.774	ppb	98.4978	17.9	-21.6322
Ni 231.604	51.2071	ppb	0.7154	1.4	176.819
Pb 220.353	123.562	ppb	1.6910	1.4	226.379
Sb 206.834	-2.0968	ppb	3.3806	161.2	5.5023
Se 196.026	-0.1702	ppb	6.2617	3680.0	2.1815
Sn 189.925	17.9772	ppb	2.6634	14.8	8.2753
Sr 216.596	21.9365	ppb	0.2542	1.2	737.035
Ti 334.941	6007.10	ppb	3.7032	0.1	1783665
Tl 190.794	5.2796	ppb	2.8511	54.0	-49.7340
V 292.401	800.969	ppb	0.2658	0.0	20862.5
Zn 206.200	210.620	ppb	4.7435	2.3	223.834

680-107114-a-20-a (Samp) **11/20/2014, 8:56:36 PM** **Rack 2, Tube 20**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.3183u	-0.1124u	-0.2120u
Al 308.215	347855	346826	347015
As 188.980	31.5636	33.9848	48.3377
B 249.678	12.1400u	11.6893u	11.2355u
Ba 389.178	600.227	598.418	598.967
Be 313.042	7.5080	7.5000	7.5055
Ca 370.602	3342	3328	3345
Cd 226.502	5.7849	5.7288	5.3058
Co 228.615	74.2915	73.9416	73.5030
Cr 267.716	561.336	560.958	560.769
Cu 324.754	192.624	191.713	190.727
Fe 271.441	337802	338027	338333
K 766.491	8503.91	8498.38	8487.54
Mg 279.078	9583.92	9578.21	9589.71
Mn 257.610	2148.93	2145.17	2145.23
Mo 202.032	4.8641	6.4870	5.7314
Na 330.237	118.519u	113.593u	79.5710u
Ni 231.604	102.728	103.359	103.478
Pb 220.353	230.584	231.491	225.485
Sb 206.834	2.8749	-1.1182	0.3831
Se 196.026	-6.7766	8.4117	1.0311
Sn 189.925	24.3632	25.5472	33.4024
Sr 216.596	31.4967	32.4850	30.9764
Ti 334.941	5945.55	5935.47	5953.95
Tl 190.794	10.9616u	11.7861u	5.1542u
V 292.401	959.519	959.590	961.089
Zn 206.200	306.284	306.373	310.570

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2142	ppb	0.1029	48.0	-83.7524
Al 308.215	347232	ppb	547.565	0.2	2357435

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	37.9620	ppb	9.0668	23.9	12.1460
B 249.678	11.6883	ppb	0.4523	3.9	-529.764
Ba 389.178	599.204	ppb	0.9275	0.2	12905.4
Be 313.042	7.5045	ppb	0.0041	0.1	13489.3
Ca 370.602	3338	ppb	9.293	0.3	8135
Cd 226.502	5.6065	ppb	0.2619	4.7	1479.16
Co 228.615	73.9120	ppb	0.3951	0.5	1002.72
Cr 267.716	561.021	ppb	0.2886	0.1	30427.2
Cu 324.754	191.688	ppb	0.9490	0.5	13398.5
Fe 271.441	338054	ppb	266.679	0.1	557660
K 766.491	8496.61	ppb	8.3262	0.1	353779
Mg 279.078	9583.95	ppb	5.7525	0.1	26054.5
Mn 257.610	2146.44	ppb	2.1497	0.1	435183
Mo 202.032	5.6942	ppb	0.8121	14.3	27.4825
Na 330.237	103.894	ppb	21.2080	20.4	-46.8649
Ni 231.604	103.189	ppb	0.4030	0.4	335.430
Pb 220.353	229.187	ppb	3.2375	1.4	397.432
Sb 206.834	0.7133	ppb	2.0169	282.8	9.2873
Se 196.026	0.8887	ppb	7.5952	854.6	2.6569
Sn 189.925	27.7709	ppb	4.9128	17.7	15.6977
Sr 216.596	31.6527	ppb	0.7663	2.4	881.833
Ti 334.941	5944.99	ppb	9.2519	0.2	1765228
Tl 190.794	9.3006	ppb	3.6145	38.9	-47.8801
V 292.401	960.066	ppb	0.8866	0.1	25021.9
Zn 206.200	307.742	ppb	2.4495	0.8	331.842

680-107114-c-21-a (Samp) **11/20/2014, 9:00:52 PM** **Rack 2, Tube 21**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.2780u	-1.2521u	-1.3452u
Al 308.215	93457.8	93617.9	93589.6
As 188.980	10.3555	18.1258	14.0618
B 249.678	4.2850u	3.9183u	3.6734u
Ba 389.178	666.157	668.385	666.323
Be 313.042	23.0961	23.1612	23.1589
Ca 370.602	5979	6003	6016
Cd 226.502	0.6018	0.5060	0.3475
Co 228.615	27.1912	26.3808	26.6243
Cr 267.716	161.210	161.808	161.640
Cu 324.754	45.1258	45.4099	45.1184
Fe 271.441	45168.6	45332.5	45263.8
K 766.491	2901.50	2913.65	2905.70
Mg 279.078	4644.86	4651.28	4644.54
Mn 257.610	1388.66	1393.27	1390.15
Mo 202.032	1.3338	1.3661	1.0922
Na 330.237	404.679	322.765	303.789
Ni 231.604	28.6896	27.4147	28.4880
Pb 220.353	59.9706	61.7826	62.8997
Sb 206.834	-4.4704u	-0.1372	2.0165
Se 196.026	-6.1702u	-0.7847	1.0881
Sn 189.925	8.1848	10.5786	5.7770
Sr 216.596	83.9419	84.4738	83.8486
Ti 334.941	1919.41	1928.16	1928.82

Label	Replicates Concentration		
Tl 190.794	-0.2216u	1.2534u	0.7824u
V 292.401	185.320	185.660	185.538
Zn 206.200	112.066	109.872	110.721

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2918	ppb	0.0481	3.7	-131.718
Al 308.215	93555.1	ppb	85.4879	0.1	635470
As 188.980	14.1810	ppb	3.8866	27.4	0.5081
B 249.678	3.9589	ppb	0.3078	7.8	19.6092
Ba 389.178	666.955	ppb	1.2415	0.2	14114.7
Be 313.042	23.1387	ppb	0.0369	0.2	41990.3
Ca 370.602	5999	ppb	19.13	0.3	16374
Cd 226.502	0.4851	ppb	0.1284	26.5	199.949
Co 228.615	26.7321	ppb	0.4158	1.6	351.305
Cr 267.716	161.553	ppb	0.3082	0.2	8766.91
Cu 324.754	45.2180	ppb	0.1662	0.4	3325.15
Fe 271.441	45255.0	ppb	82.2738	0.2	74670.9
K 766.491	2906.95	ppb	6.1690	0.2	121202
Mg 279.078	4646.89	ppb	3.8027	0.1	12667.2
Mn 257.610	1390.69	ppb	2.3537	0.2	281489
Mo 202.032	1.2640	ppb	0.1497	11.8	12.0165
Na 330.237	343.745	ppb	53.6172	15.6	32.0376
Ni 231.604	28.1975	ppb	0.6853	2.4	84.0527
Pb 220.353	61.5510	ppb	1.4782	2.4	110.792
Sb 206.834	-0.8637	ppb	3.3039	382.5	-2.9314
Se 196.026	-1.9556	ppb	3.7682	192.7	-1.2292
Sn 189.925	8.1801	ppb	2.4008	29.3	0.8508
Sr 216.596	84.0881	ppb	0.3373	0.4	1149.04
Ti 334.941	1925.46	ppb	5.2538	0.3	571720
Tl 190.794	0.6047	ppb	0.7534	124.6	-14.5292
V 292.401	185.506	ppb	0.1722	0.1	4838.06
Zn 206.200	110.886	ppb	1.1066	1.0	123.372

680-107114-a-22-a (Samp) **11/20/2014, 9:05:09 PM** **Rack 2, Tube 22**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.8387u	-0.6389u	-0.5103u
Al 308.215	181137	180637	180706
As 188.980	15.8909	19.4057	26.6112
B 249.678	5.8107u	5.0488u	5.3403u
Ba 389.178	272.446	272.256	272.293
Be 313.042	3.3241	3.3147	3.2990
Ca 370.602	1094	1073	1075
Cd 226.502	-0.0918	-0.0953	-0.1414
Co 228.615	26.1275	26.1394	25.7781
Cr 267.716	209.557	209.497	209.954
Cu 324.754	103.867	102.585	103.735
Fe 271.441	179811	179656	179811
K 766.491	3925.67	3926.97	3933.15
Mg 279.078	3873.04	3868.06	3856.50
Mn 257.610	759.573	759.074	757.793
Mo 202.032	2.3440	1.7957	1.5370
Na 330.237	154.283u	195.530u	-119.803u

Label	Replicates Concentration		
Ni 231.604	37.0305	39.4561	37.9586
Pb 220.353	99.7502	104.179	101.374
Sb 206.834	2.0774	-1.6198	3.9824
Se 196.026	-5.9387u	1.1616	2.4155
Sn 189.925	15.3948	14.7803	14.5021
Sr 216.596	10.3923	11.4902	10.4555
Ti 334.941	2670.99	2660.20	2659.37
Tl 190.794	3.7987u	5.7223u	4.3911u
V 292.401	596.144	597.296	597.847
Zn 206.200	136.778	139.269	138.111

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6626	ppb	0.1655	25.0	-101.928
Al 308.215	180827	ppb	270.671	0.1	1227894
As 188.980	20.6360	ppb	5.4650	26.5	3.3630
B 249.678	5.3999	ppb	0.3844	7.1	-268.320
Ba 389.178	272.332	ppb	0.1008	0.0	5853.51
Be 313.042	3.3126	ppb	0.0126	0.4	5802.86
Ca 370.602	1081	ppb	11.55	1.1	2264
Cd 226.502	-0.1095	ppb	0.0277	25.3	667.428
Co 228.615	26.0150	ppb	0.2053	0.8	368.244
Cr 267.716	209.669	ppb	0.2482	0.1	11417.6
Cu 324.754	103.396	ppb	0.7052	0.7	7332.20
Fe 271.441	179759	ppb	89.6340	0.0	296540
K 766.491	3928.60	ppb	3.9983	0.1	163711
Mg 279.078	3865.87	ppb	8.4896	0.2	10511.5
Mn 257.610	758.813	ppb	0.9181	0.1	154072
Mo 202.032	1.8922	ppb	0.4121	21.8	9.4997
Na 330.237	76.6700	ppb	171.396	223.6	-9.9738
Ni 231.604	38.1484	ppb	1.2239	3.2	125.473
Pb 220.353	101.768	ppb	2.2404	2.2	183.534
Sb 206.834	1.4800	ppb	2.8485	192.5	3.2250
Se 196.026	-0.7872	ppb	4.5052	572.3	0.2871
Sn 189.925	14.8924	ppb	0.4568	3.1	5.9375
Sr 216.596	10.7794	ppb	0.6164	5.7	393.813
Ti 334.941	2663.52	ppb	6.4838	0.2	790879
Tl 190.794	4.6374	ppb	0.9851	21.2	-30.2925
V 292.401	597.096	ppb	0.8687	0.1	15568.6
Zn 206.200	138.053	ppb	1.2468	0.9	148.716

680-107114-c-23-a (Samp) **11/20/2014, 9:09:26 PM** **Rack 2, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.3417u	-1.1290u	-1.0759u
Al 308.215	89364.6	89150.5	89204.6
As 188.980	2.8467	9.0008	4.9881
B 249.678	2.4002	2.4228	2.5799
Ba 389.178	624.458	624.117	624.604
Be 313.042	38.8460	38.7932	38.7521
Ca 370.602	6402	6399	6374
Cd 226.502	1.3162	1.1698	1.2413
Co 228.615	9.7551	9.8834	8.9252
Cr 267.716	417.879	417.093	415.975

Label	Replicates Concentration		
Cu 324.754	36.8870	36.4361	36.4531
Fe 271.441	17078.9	17053.7	17033.8
K 766.491	4404.52	4400.97	4408.53
Mg 279.078	6407.08	6400.87	6383.47
Mn 257.610	305.436	304.600	304.147
Mo 202.032	1.0671	0.8060	1.1572
Na 330.237	755.773	701.973	598.107
Ni 231.604	38.3221	39.6703	38.7422
Pb 220.353	55.0104	55.2174	55.2255
Sb 206.834	-1.5263	-0.1013	-2.0680
Se 196.026	-1.3671u	-2.6470u	2.4433
Sn 189.925	6.5879	10.0880	7.7834
Sr 216.596	82.7346	81.9118	82.2759
Ti 334.941	1653.79	1651.46	1651.12
Tl 190.794	2.3696	0.8161u	4.7150
V 292.401	38.7738	39.0883	38.6428
Zn 206.200	98.2791	103.005	97.6311

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1822	ppb	0.1407	11.9	-123.728
Al 308.215	89239.9	ppb	111.307	0.1	606158
As 188.980	5.6118	ppb	3.1241	55.7	-4.1116
B 249.678	2.4676	ppb	0.0979	4.0	60.0832
Ba 389.178	624.393	ppb	0.2499	0.0	13195.7
Be 313.042	38.7971	ppb	0.0471	0.1	70583.3
Ca 370.602	6392	ppb	15.18	0.2	17553
Cd 226.502	1.2425	ppb	0.0732	5.9	128.744
Co 228.615	9.5212	ppb	0.5202	5.5	145.539
Cr 267.716	416.982	ppb	0.9569	0.2	22505.6
Cu 324.754	36.5920	ppb	0.2556	0.7	2728.90
Fe 271.441	17055.5	ppb	22.6236	0.1	28152.7
K 766.491	4404.67	ppb	3.7830	0.1	183520
Mg 279.078	6397.14	ppb	12.2349	0.2	17477.1
Mn 257.610	304.727	ppb	0.6538	0.2	61801.7
Mo 202.032	1.0101	ppb	0.1824	18.1	11.7775
Na 330.237	685.284	ppb	80.1472	11.7	53.6277
Ni 231.604	38.9115	ppb	0.6899	1.8	114.151
Pb 220.353	55.1511	ppb	0.1219	0.2	98.6779
Sb 206.834	-1.2318	ppb	1.0159	82.5	-0.7399
Se 196.026	-0.5236	ppb	2.6479	505.7	-1.0856
Sn 189.925	8.1531	ppb	1.7791	21.8	0.8305
Sr 216.596	82.3074	ppb	0.4123	0.5	1086.54
Ti 334.941	1652.12	ppb	1.4533	0.1	490562
Tl 190.794	2.6336	ppb	1.9628	74.5	-8.9418
V 292.401	38.8350	ppb	0.2289	0.6	994.931
Zn 206.200	99.6386	ppb	2.9338	2.9	111.293

680-107114-a-24-a (Samp) **11/20/2014, 9:13:44 PM** **Rack 2, Tube 24**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.4960u	-0.9467u	-0.8014u
Al 308.215	283559	283524	283373
As 188.980	24.1546	27.2225	23.5557

Label	Replicates Concentration		
B 249.678	6.1070u	6.2794u	6.9520u
Ba 389.178	369.403	369.206	370.829
Be 313.042	10.8692	10.8758	10.8704
Ca 370.602	4631	4652	4648
Cd 226.502	0.2037	0.4483	0.6263
Co 228.615	94.4275	96.1328	94.8203
Cr 267.716	781.517	781.895	781.603
Cu 324.754	313.352	314.492	313.766
Fe 271.441	433589	435423	433641
K 766.491	9198.07	9211.55	9171.47
Mg 279.078	9608.24	9625.89	9619.12
Mn 257.610	3533.95	3545.11	3542.53
Mo 202.032	2.9940u	2.7921u	2.8948u
Na 330.237	108.222u	155.223u	-2.1465u
Ni 231.604	117.299	117.534	116.133
Pb 220.353	164.468	168.055	163.333
Sb 206.834	-3.1301	-10.7280	2.5996
Se 196.026	-11.5210u	-7.1118	0.5328
Sn 189.925	17.6600	19.4861	16.4447
Sr 216.596	16.1990	17.2162	16.4653
Ti 334.941	12653.0	12672.1	12621.5
Tl 190.794	7.7754u	10.9459u	11.5838u
V 292.401	1340.11	1338.10	1335.50
Zn 206.200	412.483	415.289	411.712

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.0814	ppb	0.3663	33.9	-163.204
Al 308.215	283485	ppb	98.9570	0.0	1924815
As 188.980	24.9776	ppb	1.9671	7.9	4.3809
B 249.678	6.4461	ppb	0.4465	6.9	-840.058
Ba 389.178	369.813	ppb	0.8858	0.2	8117.76
Be 313.042	10.8718	ppb	0.0036	0.0	19652.6
Ca 370.602	4644	ppb	11.01	0.2	13484
Cd 226.502	0.4261	ppb	0.2122	49.8	1605.32
Co 228.615	95.1269	ppb	0.8930	0.9	1398.09
Cr 267.716	781.672	ppb	0.1982	0.0	42373.0
Cu 324.754	313.870	ppb	0.5771	0.2	21745.2
Fe 271.441	434218	ppb	1044.08	0.2	716291
K 766.491	9193.70	ppb	20.3929	0.2	382784
Mg 279.078	9617.75	ppb	8.9040	0.1	26142.2
Mn 257.610	3540.53	ppb	5.8407	0.2	717387
Mo 202.032	2.8936	ppb	0.1009	3.5	3.5275
Na 330.237	87.0996	ppb	80.7831	92.7	-71.0424
Ni 231.604	116.989	ppb	0.7502	0.6	385.144
Pb 220.353	165.285	ppb	2.4647	1.5	298.334
Sb 206.834	-3.7528	ppb	6.6856	178.1	7.7134
Se 196.026	-6.0333	ppb	6.0989	101.1	0.7934
Sn 189.925	17.8636	ppb	1.5309	8.6	8.1886
Sr 216.596	16.6268	ppb	0.5275	3.2	823.547
Ti 334.941	12648.9	ppb	25.5603	0.2	3755702
Tl 190.794	10.1017	ppb	2.0397	20.2	-60.2155
V 292.401	1337.90	ppb	2.3122	0.2	34919.8
Zn 206.200	413.161	ppb	1.8823	0.5	445.668

Cont Calib Verif (CCV) **11/20/2014, 9:18:00 PM** **Rack 2, Tube 25**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	499.802	498.593	499.161
Al 308.215	4912.90	4914.00	4901.93
As 188.980	484.734	489.072	490.813
B 249.678	489.048	491.977	494.033
Ba 389.178	5231.22	5232.34	5223.73
Be 313.042	524.434	522.312	522.881
Ca 370.602	4935	4929	4934
Cd 226.502	524.682	523.250	521.880
Co 228.615	529.351	527.968	524.903
Cr 267.716	5221.53	5212.50	5207.13
Cu 324.754	5311.68	5298.18	5341.61
Fe 271.441	4945.89	4947.35	4959.30
K 766.491	10301.1	10307.0	10306.1
Mg 279.078	4950.75	4936.70	4933.02
Mn 257.610	5341.22	5314.71	5294.36
Mo 202.032	495.276	497.296	493.136
Na 330.237	7596.76	7194.00	7358.43
Ni 231.604	2618.88	2587.07	2591.58
Pb 220.353	499.408	496.335	496.228
Sb 206.834	978.707	981.833	983.879
Se 196.026	4886.09	4878.75	4873.27
Sn 189.925	4968.81	4895.68	4920.50
Sr 216.596	2479.88	2481.52	2479.63
Ti 334.941	499.847	498.853	498.392
Tl 190.794	5008.66	4996.63	5023.31
V 292.401	4925.02	4921.98	4920.49
Zn 206.200	2620.44	2613.51	2608.69

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	499.185	ppb	0.6051	0.1	40937.6	99.83709
Al 308.215	4909.61	ppb	6.6724	0.1	34434.9	98.19217
As 188.980	488.206	ppb	3.1305	0.6	264.742	97.64122
B 249.678	491.686	ppb	2.5053	0.5	8231.62	98.33722
Ba 389.178	5229.10	ppb	4.6834	0.1	110737	104.58196
Be 313.042	523.209	ppb	1.0987	0.2	955556	104.64175
Ca 370.602	4933	ppb	3.416	0.1	13464	98.65060
Cd 226.502	523.271	ppb	1.4009	0.3	21824.8	104.65415
Co 228.615	527.407	ppb	2.2765	0.4	6089.27	105.48141
Cr 267.716	5213.72	ppb	7.2794	0.1	280795	104.27441
Cu 324.754	5317.15	ppb	22.2253	0.4	361964	106.34309
Fe 271.441	4950.85	ppb	7.3556	0.1	8291.34	99.01691
K 766.491	10304.7	ppb	3.1889	0.0	429012	103.04710
Mg 279.078	4940.15	ppb	9.3565	0.2	13421.3	98.80308
Mn 257.610	5316.76	ppb	23.5018	0.4	1075371	106.33530
Mo 202.032	495.236	ppb	2.0803	0.4	3361.64	99.04726
Na 330.237	7383.06	ppb	202.509	2.7	304.818	98.44086
Ni 231.604	2599.17	ppb	17.2101	0.7	7858.07	103.96700
Pb 220.353	497.324	ppb	1.8058	0.4	820.625	99.46471
Sb 206.834	981.473	ppb	2.6044	0.3	1391.73	98.14732
Se 196.026	4879.37	ppb	6.4337	0.1	2104.33	97.58738
Sn 189.925	4928.33	ppb	37.1865	0.8	3729.76	98.56662
Sr 216.596	2480.34	ppb	1.0245	0.0	31782.7	99.21373

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	499.031	ppb	0.7434	0.1	148185	99.80618
Tl 190.794	5009.53	ppb	13.3583	0.3	5287.12	100.19064
V 292.401	4922.49	ppb	2.3083	0.0	128556	98.44986
Zn 206.200	2614.21	ppb	5.9060	0.2	2911.71	104.56847

Cont Calib Blank (CCB) **11/20/2014, 9:22:16 PM** **Rack 2, Tube 26**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1852	0.3484	-0.3293u
Al 308.215	1.6298	1.5708	0.7441
As 188.980	1.6848	-1.3639u	-0.9522u
B 249.678	6.9727	5.7554	5.2849
Ba 389.178	0.5578	-0.1557u	0.6807
Be 313.042	0.0128	0.0091	0.0150
Ca 370.602	8.845	2.737	7.500
Cd 226.502	-0.0001	0.1275	-0.0144u
Co 228.615	-0.1770u	-0.1419u	0.4663
Cr 267.716	-0.0860u	0.2430	0.0383
Cu 324.754	-0.3749u	0.0420	0.1777
Fe 271.441	3.8609	3.4833	5.6207
K 766.491	0.7796	0.5580	2.1963
Mg 279.078	-1.3314u	-1.3366u	1.2025
Mn 257.610	0.1739	0.1736	0.2162
Mo 202.032	0.6175	0.3454	0.5046
Na 330.237	-246.808u	-26.6238u	74.1362
Ni 231.604	-0.5234u	-0.6581u	-0.5457u
Pb 220.353	4.2752	0.7773	2.3861
Sb 206.834	4.2767	5.5149	3.8183
Se 196.026	-5.4035u	1.5019	1.4782
Sn 189.925	-0.1560u	0.5128	1.9566
Sr 216.596	0.2383	0.1077	0.2631
Ti 334.941	0.3691	0.3258	0.3247
Tl 190.794	0.7901	2.0245	3.5768
V 292.401	-0.0804u	0.0376	-0.0935u
Zn 206.200	-2.0960u	0.4875	-0.9286u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0681	ppb	0.3537	519.6	-17.4104	0.06807
Al 308.215	1.3149	ppb	0.4952	37.7	445.988	1.31493
As 188.980	-0.2104	ppb	1.6542	786.1	-7.2617	-0.21044
B 249.678	6.0043	ppb	0.8710	14.5	158.366	6.00435
Ba 389.178	0.3610	ppb	0.4516	125.1	-48.3057	0.36096
Be 313.042	0.0123	ppb	0.0030	24.4	-269.416	0.01229
Ca 370.602	6.360	ppb	3.209	50.5	22.78	6.36050
Cd 226.502	0.0376	ppb	0.0781	207.6	18.7805	0.03763
Co 228.615	0.0491	ppb	0.3617	736.9	-1.2722	0.04909
Cr 267.716	0.0651	ppb	0.1661	255.3	38.3307	0.06508
Cu 324.754	-0.0517	ppb	0.2880	556.7	229.307	-0.05173
Fe 271.441	4.3216	ppb	1.1408	26.4	23.9730	4.32162
K 766.491	1.1780	ppb	0.8889	75.5	297.192	1.17798
Mg 279.078	-0.4885	ppb	1.4645	299.8	24.1443	-0.48850
Mn 257.610	0.1879	ppb	0.0245	13.0	119.445	0.18792
Mo 202.032	0.4892	ppb	0.1367	27.9	9.0857	0.48919

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	-66.4319	ppb	164.134	247.1	25.9791	-66.43188
Ni 231.604	-0.5757	ppb	0.0722	12.5	-6.7553	-0.57572
Pb 220.353	2.4795	ppb	1.7509	70.6	13.8561	2.47952
Sb 206.834	4.5366	ppb	0.8777	19.3	1.6055	4.53665
Se 196.026	-0.8078	ppb	3.9800	492.7	-1.4191	-0.80780
Sn 189.925	0.7711	ppb	1.0797	140.0	-4.7644	0.77112
Sr 216.596	0.2030	ppb	0.0835	41.1	6.7799	0.20300
Ti 334.941	0.3399	ppb	0.0254	7.5	107.657	0.33987
Tl 190.794	2.1305	ppb	1.3964	65.5	-7.1377	2.13048
V 292.401	-0.0454	ppb	0.0722	159.1	-10.0946	-0.04541
Zn 206.200	-0.8457	ppb	1.2937	153.0	0.4996	-0.84573

680-107114-a-25-a (Samp) **11/20/2014, 9:26:32 PM** **Rack 2, Tube 27**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.3750u	-1.2299u	-1.3367u
Al 308.215	154340	154187	154074
As 188.980	13.4196	11.6229	15.3409
B 249.678	7.2222u	7.6238u	7.1868u
Ba 389.178	652.426	650.141	651.615
Be 313.042	4.1575	4.1160	4.1314
Ca 370.602	2439	2430	2435
Cd 226.502	0.0956	-0.1117	-0.1781
Co 228.615	26.1834	26.2373	26.1091
Cr 267.716	71.8920	71.2450	71.5841
Cu 324.754	74.7083	74.5932	74.3988
Fe 271.441	105075	104845	105036
K 766.491	13961.1	13889.6	13894.5
Mg 279.078	10099.4	10083.4	10082.5
Mn 257.610	1152.82	1148.55	1149.12
Mo 202.032	1.7442	1.5630	0.9073
Na 330.237	64.2548u	30.2874u	29.1362u
Ni 231.604	20.9968	21.6710	21.8921
Pb 220.353	126.874	127.475	125.207
Sb 206.834	3.6152	2.2850	-0.7786
Se 196.026	3.5649	5.4822	-0.1710
Sn 189.925	7.8776	8.8747	16.8032
Sr 216.596	19.7455	19.8886	19.2156
Ti 334.941	5378.25	5361.29	5359.94
Tl 190.794	1.6536u	1.4503u	10.5920u
V 292.401	197.998	196.851	196.918
Zn 206.200	228.522	230.257	227.288

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.3139	ppb	0.0752	5.7	-142.317
Al 308.215	154200	ppb	133.664	0.1	1047106
As 188.980	13.4611	ppb	1.8594	13.8	-0.2217
B 249.678	7.3443	ppb	0.2428	3.3	-62.2983
Ba 389.178	651.394	ppb	1.1582	0.2	13839.6
Be 313.042	4.1350	ppb	0.0210	0.5	7282.25
Ca 370.602	2435	ppb	4.820	0.2	7723
Cd 226.502	-0.0647	ppb	0.1427	220.5	390.061
Co 228.615	26.1766	ppb	0.0644	0.2	422.508

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	71.5737	ppb	0.3236	0.5	3956.31
Cu 324.754	74.5668	ppb	0.1564	0.2	5345.90
Fe 271.441	104985	ppb	123.216	0.1	173198
K 766.491	13915.1	ppb	39.9168	0.3	579233
Mg 279.078	10088.4	ppb	9.5300	0.1	27528.1
Mn 257.610	1150.16	ppb	2.3182	0.2	233051
Mo 202.032	1.4048	ppb	0.4403	31.3	10.1520
Na 330.237	41.2261	ppb	19.9517	48.4	3.0751
Ni 231.604	21.5199	ppb	0.4664	2.2	68.8592
Pb 220.353	126.519	ppb	1.1752	0.9	217.403
Sb 206.834	1.7072	ppb	2.2532	132.0	0.4937
Se 196.026	2.9587	ppb	2.8749	97.2	1.3476
Sn 189.925	11.1852	ppb	4.8908	43.7	3.1280
Sr 216.596	19.6166	ppb	0.3545	1.8	403.385
Ti 334.941	5366.49	ppb	10.2005	0.2	1593428
Tl 190.794	4.5653	ppb	5.2202	114.3	-19.4549
V 292.401	197.256	ppb	0.6434	0.3	5152.54
Zn 206.200	228.689	ppb	1.4915	0.7	253.030

680-107114-a-26-a (Samp) **11/20/2014, 9:30:47 PM** **Rack 2, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.2392u	-0.8906u	-1.5174u
Al 308.215	189363	188994	188403
As 188.980	12.8835	6.8119	22.5343
B 249.678	6.7407u	6.7511u	6.6826u
Ba 389.178	747.729	746.920	743.855
Be 313.042	5.6996	5.6941	5.6906
Ca 370.602	3087	3084	3074
Cd 226.502	-0.3034	-0.1843	-0.1284
Co 228.615	35.2513	35.0917	35.8760
Cr 267.716	117.887	118.402	117.717
Cu 324.754	93.0278	92.7140	92.6858
Fe 271.441	129255	129110	128797
K 766.491	15000.5	14953.5	14925.6
Mg 279.078	11533.5	11528.8	11481.6
Mn 257.610	1217.60	1215.84	1214.52
Mo 202.032	1.9193	1.4964	1.5868
Na 330.237	185.713u	72.2185u	-99.4993u
Ni 231.604	29.9894	29.8241	30.1466
Pb 220.353	159.145	155.973	158.052
Sb 206.834	1.6465	-0.2449	-4.3928u
Se 196.026	6.2557	-1.9271	-12.0006u
Sn 189.925	9.6773	16.2919	11.7715
Sr 216.596	24.8756	24.6376	24.4223
Ti 334.941	6331.30	6327.93	6303.52
Tl 190.794	11.6607u	9.1617u	9.6838u
V 292.401	300.477	300.852	299.463
Zn 206.200	268.186	261.518	263.901

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2157	ppb	0.3141	25.8	-137.729
Al 308.215	188920	ppb	484.590	0.3	1282784

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	14.0766	ppb	7.9288	56.3	-0.0108
B 249.678	6.7248	ppb	0.0369	0.5	-128.106
Ba 389.178	746.168	ppb	2.0434	0.3	15867.8
Be 313.042	5.6948	ppb	0.0046	0.1	10139.4
Ca 370.602	3081	ppb	6.801	0.2	9606
Cd 226.502	-0.2054	ppb	0.0894	43.5	470.428
Co 228.615	35.4064	ppb	0.4145	1.2	551.027
Cr 267.716	118.002	ppb	0.3563	0.3	6469.83
Cu 324.754	92.8092	ppb	0.1898	0.2	6595.37
Fe 271.441	129054	ppb	233.955	0.2	212901
K 766.491	14959.9	ppb	37.8223	0.3	622706
Mg 279.078	11514.6	ppb	28.7040	0.2	31413.1
Mn 257.610	1215.99	ppb	1.5486	0.1	246440
Mo 202.032	1.6675	ppb	0.2227	13.4	10.6969
Na 330.237	52.8107	ppb	143.593	271.9	-2.4015
Ni 231.604	29.9867	ppb	0.1612	0.5	96.4702
Pb 220.353	157.723	ppb	1.6117	1.0	268.691
Sb 206.834	-0.9970	ppb	3.0891	309.8	-2.1955
Se 196.026	-2.5573	ppb	9.1444	357.6	-0.8128
Sn 189.925	12.5803	ppb	3.3806	26.9	4.1853
Sr 216.596	24.6452	ppb	0.2267	0.9	501.473
Ti 334.941	6320.91	ppb	15.1608	0.2	1876815
Tl 190.794	10.1687	ppb	1.3182	13.0	-16.9397
V 292.401	300.264	ppb	0.7187	0.2	7845.53
Zn 206.200	264.535	ppb	3.3788	1.3	292.117

680-107114-c-27-a (Samp) **11/20/2014, 9:35:03 PM** **Rack 2, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.4349u	-1.2118u	-1.2330u
Al 308.215	174221	174574	174669
As 188.980	14.8916	14.6092	4.9532
B 249.678	6.9101u	7.6650u	7.4552u
Ba 389.178	949.066	948.309	946.607
Be 313.042	14.4804	14.4727	14.4661
Ca 370.602	49396	49239	49311
Cd 226.502	-0.2611	0.1312	-0.3247
Co 228.615	166.819	165.997	168.393
Cr 267.716	321.191	321.625	322.086
Cu 324.754	239.846	240.260	239.432
Fe 271.441	220968	221114	221116
K 766.491	31047.0	31046.7	31062.0
Mg 279.078	32992.4	33015.8	33069.1
Mn 257.610	5110.85	5141.43	5134.36
Mo 202.032	2.1137	2.2053	2.0500
Na 330.237	75.7837u	281.676u	232.529u
Ni 231.604	127.196	126.793	128.689
Pb 220.353	183.969	184.042	186.236
Sb 206.834	2.9295	4.1240	7.2609
Se 196.026	-3.1404	-6.0613	-6.2994
Sn 189.925	21.6001	20.7467	25.0130
Sr 216.596	96.5903	95.8069	96.3056
Ti 334.941	9893.32	9904.88	9904.69

Label	Replicates Concentration		
Tl 190.794	13.6241u	14.8390u	12.4030u
V 292.401	650.581	650.074	648.537
Zn 206.200	454.858	457.215	461.035

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2932	ppb	0.1231	9.5	-142.165
Al 308.215	174488	ppb	236.251	0.1	1184884
As 188.980	11.4847	ppb	5.6582	49.3	-1.9631
B 249.678	7.3434	ppb	0.3896	5.3	-331.340
Ba 389.178	947.994	ppb	1.2593	0.1	20253.7
Be 313.042	14.4731	ppb	0.0072	0.0	26202.1
Ca 370.602	49315	ppb	78.89	0.2	133407
Cd 226.502	-0.1515	ppb	0.2469	163.0	804.954
Co 228.615	167.070	ppb	1.2177	0.7	2153.69
Cr 267.716	321.634	ppb	0.4474	0.1	17503.4
Cu 324.754	239.846	ppb	0.4140	0.2	16632.1
Fe 271.441	221066	ppb	84.9524	0.0	364696
K 766.491	31051.9	ppb	8.7776	0.0	1292271
Mg 279.078	33025.8	ppb	39.3265	0.1	90155.9
Mn 257.610	5128.88	ppb	16.0126	0.3	1038180
Mo 202.032	2.1230	ppb	0.0781	3.7	9.0681
Na 330.237	196.663	ppb	107.530	54.7	-20.1686
Ni 231.604	127.559	ppb	0.9992	0.8	399.064
Pb 220.353	184.749	ppb	1.2885	0.7	318.120
Sb 206.834	4.7715	ppb	2.2371	46.9	9.8530
Se 196.026	-5.1670	ppb	1.7591	34.0	-0.3080
Sn 189.925	22.4533	ppb	2.2575	10.1	11.6676
Sr 216.596	96.2343	ppb	0.3965	0.4	1565.86
Ti 334.941	9900.96	ppb	6.6160	0.1	2939826
Tl 190.794	13.6220	ppb	1.2180	8.9	-24.3886
V 292.401	649.731	ppb	1.0643	0.2	16979.6
Zn 206.200	457.703	ppb	3.1172	0.7	504.189

CRI (Samp) **11/20/2014, 9:39:20 PM** **Rack 2, Tube 30**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.3589	10.5678	10.8285
Al 308.215	216.005	216.854	216.987
As 188.980	19.6888	24.8523	26.0280
B 249.678	99.7465	100.390	101.134
Ba 389.178	10.5362	11.2254	11.3879
Be 313.042	4.3911	4.4063	4.4168
Ca 370.602	521.4	525.5	524.1
Cd 226.502	5.2160	5.4341	5.3543
Co 228.615	10.1738	10.5304	10.7523
Cr 267.716	10.6607	10.7319	10.8057
Cu 324.754	21.7734	22.3311	22.3574
Fe 271.441	70.9450	73.2835	73.3564
K 766.491	1041.45	1048.23	1050.92
Mg 279.078	512.586	511.188	513.770
Mn 257.610	11.6635	11.7614	11.7932
Mo 202.032	9.7551	10.1109	9.7280
Na 330.237	945.016	916.117	984.548

Label	Replicates Concentration		
Ni 231.604	43.0911	44.2534	44.8704
Pb 220.353	14.0369	16.0768	13.5290
Sb 206.834	16.5747	18.7991	21.0823
Se 196.026	13.9652	15.2639	16.1858
Sn 189.925	54.8720	50.8151	50.5651
Sr 216.596	10.5535	10.2827	9.9663
Ti 334.941	12.4606	12.4252	12.4077
Tl 190.794	24.8498	26.0165	28.3495
V 292.401	10.7179	10.8029	11.0107
Zn 206.200	19.9111	21.2731	20.2088

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.5851	ppb	0.2353	2.2	846.239
Al 308.215	216.615	ppb	0.5326	0.2	1908.96
As 188.980	23.5230	ppb	3.3721	14.3	5.9601
B 249.678	100.423	ppb	0.6944	0.7	1727.31
Ba 389.178	11.0498	ppb	0.4522	4.1	179.250
Be 313.042	4.4047	ppb	0.0129	0.3	7752.62
Ca 370.602	523.7	ppb	2.115	0.4	1405
Cd 226.502	5.3348	ppb	0.1103	2.1	239.607
Co 228.615	10.4855	ppb	0.2918	2.8	119.131
Cr 267.716	10.7327	ppb	0.0725	0.7	612.814
Cu 324.754	22.1540	ppb	0.3298	1.5	1740.41
Fe 271.441	72.5283	ppb	1.3717	1.9	137.840
K 766.491	1046.87	ppb	4.8813	0.5	43806.7
Mg 279.078	512.515	ppb	1.2924	0.3	1426.54
Mn 257.610	11.7394	ppb	0.0676	0.6	2459.46
Mo 202.032	9.8647	ppb	0.2136	2.2	72.7079
Na 330.237	948.561	ppb	34.3528	3.6	70.6152
Ni 231.604	44.0717	ppb	0.9034	2.0	128.308
Pb 220.353	14.5475	ppb	1.3485	9.3	33.4071
Sb 206.834	18.8187	ppb	2.2539	12.0	21.0668
Se 196.026	15.1383	ppb	1.1156	7.4	5.4607
Sn 189.925	52.0841	ppb	2.4176	4.6	34.1253
Sr 216.596	10.2675	ppb	0.2939	2.9	134.906
Ti 334.941	12.4312	ppb	0.0270	0.2	3698.57
Tl 190.794	26.4053	ppb	1.7819	6.7	18.4907
V 292.401	10.8438	ppb	0.1506	1.4	272.772
Zn 206.200	20.4643	ppb	0.7161	3.5	24.2888

mb 680-359627/1-a (Samp) **11/20/2014, 9:43:36 PM** **Rack 2, Tube 31**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1684	0.1188	-0.4979u
Al 308.215	2.2325	1.6492	1.3447
As 188.980	-2.0216u	-2.1326u	0.5281
B 249.678	1.1747	1.2695	0.9503
Ba 389.178	-0.5068u	0.2315	-0.4756u
Be 313.042	-0.0018u	-0.0015u	-0.0022u
Ca 370.602	9.398	9.365	6.576
Cd 226.502	0.0446	0.2036	0.1616
Co 228.615	-0.2600u	0.0114	0.3270
Cr 267.716	0.2628	0.3903	0.4035

Label	Replicates Concentration		
Cu 324.754	-0.2430u	-0.6705u	-0.6517u
Fe 271.441	7.0441	5.8123	5.2703
K 766.491	0.7610	0.4089	0.9750
Mg 279.078	2.0393	-0.1310u	-1.5458u
Mn 257.610	0.1715	0.1272	0.1320
Mo 202.032	0.1368	0.4644	-0.2480u
Na 330.237	124.088	4.2544	138.580
Ni 231.604	-0.3940u	0.8706	0.2418
Pb 220.353	1.8946	0.7639	3.0650
Sb 206.834	-0.1898u	-0.6321u	0.2133
Se 196.026	-2.6061u	-6.9576u	-6.5484u
Sn 189.925	1.1961	0.6856	-0.5314u
Sr 216.596	0.2516	0.2903	-0.1515u
Ti 334.941	0.6397	0.5947	0.5523
Tl 190.794	0.4910	3.7009	2.9080
V 292.401	-0.2167u	-0.1385u	-0.0642u
Zn 206.200	1.2975	4.6016	3.1814

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0702	ppb	0.3712	528.4	-28.7762
Al 308.215	1.7421	ppb	0.4511	25.9	448.869
As 188.980	-1.2087	ppb	1.5052	124.5	-7.8179
B 249.678	1.1315	ppb	0.1639	14.5	77.3331
Ba 389.178	-0.2503	ppb	0.4176	166.8	-61.2485
Be 313.042	-0.0018	ppb	0.0004	19.2	-295.185
Ca 370.602	8.446	ppb	1.620	19.2	28.40
Cd 226.502	0.1366	ppb	0.0824	60.3	22.9125
Co 228.615	0.0261	ppb	0.2938	1124.4	-1.5223
Cr 267.716	0.3522	ppb	0.0777	22.1	53.8002
Cu 324.754	-0.5217	ppb	0.2416	46.3	197.322
Fe 271.441	6.0422	ppb	0.9090	15.0	26.7989
K 766.491	0.7150	ppb	0.2858	40.0	277.926
Mg 279.078	0.1208	ppb	1.8057	1494.3	25.8117
Mn 257.610	0.1436	ppb	0.0243	16.9	110.498
Mo 202.032	0.1177	ppb	0.3566	302.9	6.5642
Na 330.237	88.9740	ppb	73.7263	82.9	32.8193
Ni 231.604	0.2395	ppb	0.6323	264.1	-4.2884
Pb 220.353	1.9079	ppb	1.1506	60.3	12.9302
Sb 206.834	-0.2029	ppb	0.4229	208.5	-4.8465
Se 196.026	-5.3707	ppb	2.4030	44.7	-3.3868
Sn 189.925	0.4501	ppb	0.8875	197.2	-5.0076
Sr 216.596	0.1302	ppb	0.2447	188.0	5.8326
Ti 334.941	0.5956	ppb	0.0437	7.3	183.574
Tl 190.794	2.3666	ppb	1.6720	70.6	-6.8883
V 292.401	-0.1398	ppb	0.0763	54.6	-12.5199
Zn 206.200	3.0268	ppb	1.6575	54.8	4.8265

lcs 680-359627/2-a (Samp) **11/20/2014, 9:47:52 PM** **Rack 2, Tube 32**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	99.3309	99.1966	97.9349
Al 308.215	9909.74	9889.33	9877.73
As 188.980	202.164	207.905	202.787

Label	Replicates Concentration		
B 249.678	385.802	386.290	388.483
Ba 389.178	204.563	205.163	204.475
Be 313.042	106.149	106.176	106.058
Ca 370.602	9618	9679	9652
Cd 226.502	103.388	103.228	103.341
Co 228.615	104.195	104.082	103.552
Cr 267.716	208.721	208.414	208.190
Cu 324.754	213.774	213.601	212.985
Fe 271.441	9707.65	9718.67	9692.50
K 766.491	10847.2	10813.5	10804.7
Mg 279.078	9526.46	9551.38	9528.17
Mn 257.610	1069.76	1068.86	1068.07
Mo 202.032	196.805	197.884	196.435
Na 330.237	91056.1	90676.9	91163.9
Ni 231.604	204.947	203.284	205.959
Pb 220.353	964.854	959.069	957.446
Sb 206.834	100.205	98.8991	101.997
Se 196.026	187.351	197.342	190.503
Sn 189.925	381.437	379.095	378.903
Sr 216.596	193.305	193.660	194.088
Ti 334.941	199.116	199.043	198.890
Tl 190.794	77.5676	79.0082	74.4268
V 292.401	198.794	198.983	199.080
Zn 206.200	211.808	208.562	210.049

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	98.8208b	ppb	0.7701	0.8	8092.26
Al 308.215	9892.27b	ppb	16.2092	0.2	67612.6
As 188.980	204.285b	ppb	3.1506	1.5	106.584
B 249.678	386.859b	ppb	1.4276	0.4	6465.61
Ba 389.178	204.733b	ppb	0.3745	0.2	4308.11
Be 313.042	106.128b	ppb	0.0617	0.1	193527
Ca 370.602	9650b	ppb	30.73	0.3	25718
Cd 226.502	103.319b	ppb	0.0819	0.1	4354.48
Co 228.615	103.943b	ppb	0.3432	0.3	1197.11
Cr 267.716	208.442b	ppb	0.2663	0.1	11269.5
Cu 324.754	213.453b	ppb	0.4147	0.2	14764.7
Fe 271.441	9706.27b	ppb	13.1388	0.1	16041.9
K 766.491	10821.8b	ppb	22.4364	0.2	450526
Mg 279.078	9535.34b	ppb	13.9214	0.1	26072.4
Mn 257.610	1068.90b	ppb	0.8454	0.1	216346
Mo 202.032	197.041b	ppb	0.7532	0.4	1342.54
Na 330.237	90965.7b	ppb	255.785	0.3	4060.48
Ni 231.604	204.730b	ppb	1.3505	0.7	614.973
Pb 220.353	960.456b	ppb	3.8937	0.4	1567.22
Sb 206.834	100.367b	ppb	1.5552	1.5	131.892
Se 196.026	191.732b	ppb	5.1078	2.7	81.9256
Sn 189.925	379.812b	ppb	1.4108	0.4	282.533
Sr 216.596	193.684b	ppb	0.3923	0.2	2500.42
Ti 334.941	199.016b	ppb	0.1154	0.1	59108.8
Tl 190.794	77.0009b	ppb	2.3427	3.0	70.8745
V 292.401	198.952b	ppb	0.1455	0.1	5150.07
Zn 206.200	210.140b	ppb	1.6249	0.8	235.485

lb 680-359070/1-c (Samp) **11/20/2014, 9:52:08 PM** **Rack 2, Tube 33**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1259	-0.0007u	0.0070
Al 308.215	4.2111	2.8237	3.2330
As 188.980	-2.0166u	-7.6587u	4.8320
B 249.678	5.9493	4.8207	4.0545
Ba 389.178	0.2238	-0.0377u	-0.2175u
Be 313.042	0.0068	0.0070	-0.0009u
Ca 370.602	12.29	14.61	14.70
Cd 226.502	0.2057	0.1025	0.0385
Co 228.615	0.1854	-0.2203u	0.3014
Cr 267.716	0.3766	0.5012	0.4348
Cu 324.754	-0.1625u	-0.0888u	-0.3069u
Fe 271.441	5.8489	3.4426	3.2862
K 766.491	15.8112	15.7160	15.9572
Mg 279.078	5.5070	3.9209	5.2529
Mn 257.610	0.1350	0.1547	0.1479
Mo 202.032	0.3489	0.0050	0.1696
Na 330.237	84328.1	83977.7	85133.4
Ni 231.604	-0.0551u	0.2371	-0.4827u
Pb 220.353	3.0930	2.3154	4.2689
Sb 206.834	-0.5086u	-0.5295u	2.2983
Se 196.026	-2.8175u	-4.8524u	-11.0113u
Sn 189.925	-2.2344u	1.9733	0.8913
Sr 216.596	0.6678	0.3977	-0.0860u
Ti 334.941	0.0967	0.0498	0.0631
Tl 190.794	-0.7164u	2.9175	2.8922
V 292.401	-0.4910u	-0.2748u	-0.3520u
Zn 206.200	8.8024	10.1843	9.3981

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0441	ppb	0.0710	161.1	-19.3918
Al 308.215	3.4226	ppb	0.7129	20.8	460.257
As 188.980	-1.6144	ppb	6.2550	387.4	-8.0440
B 249.678	4.9415	ppb	0.9531	19.3	140.663
Ba 389.178	-0.0105	ppb	0.2219	2123.8	-56.1600
Be 313.042	0.0043	ppb	0.0045	104.7	-293.076
Ca 370.602	13.87	ppb	1.367	9.9	42.62
Cd 226.502	0.1156	ppb	0.0844	73.0	21.5275
Co 228.615	0.0888	ppb	0.2739	308.5	-0.8112
Cr 267.716	0.4375	ppb	0.0623	14.2	60.0199
Cu 324.754	-0.1861	ppb	0.1109	59.6	220.160
Fe 271.441	4.1926	ppb	1.4365	34.3	23.7593
K 766.491	15.8281	ppb	0.1215	0.8	906.762
Mg 279.078	4.8936	ppb	0.8519	17.4	38.8616
Mn 257.610	0.1459	ppb	0.0100	6.8	110.609
Mo 202.032	0.1745	ppb	0.1720	98.6	6.9499
Na 330.237	84479.8	ppb	592.583	0.7	3778.63
Ni 231.604	-0.1002	ppb	0.3620	361.2	-5.3165
Pb 220.353	3.2258	ppb	0.9835	30.5	15.0668
Sb 206.834	0.4201	ppb	1.6267	387.2	-3.9966
Se 196.026	-6.2271	ppb	4.2664	68.5	-3.7562
Sn 189.925	0.2101	ppb	2.1850	1040.2	-5.1632
Sr 216.596	0.3265	ppb	0.3819	117.0	8.3610

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.0699	ppb	0.0242	34.6	20.7772
Tl 190.794	1.6977	ppb	2.0908	123.2	-7.5942
V 292.401	-0.3726	ppb	0.1096	29.4	-19.2419
Zn 206.200	9.4616	ppb	0.6931	7.3	12.0173

680-107313-a-1-d (Samp) **11/20/2014, 9:56:24 PM** **Rack 2, Tube 34**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0638u	0.0720	-0.0267u
Al 308.215	4.0740	-0.6295u	1.5454
As 188.980	0.7959	0.0767	-4.4482u
B 249.678	25.5068	25.7425	25.2765
Ba 389.178	28.4963	28.2628	27.9518
Be 313.042	-0.0125u	-0.0222u	-0.0082u
Ca 370.602	50332	50289	50430
Cd 226.502	0.1919	0.1946	0.0327
Co 228.615	19.3941	19.4200	19.3322
Cr 267.716	1.5535	1.5816	1.4016
Cu 324.754	-0.1964u	-0.0630u	-0.2718u
Fe 271.441	2638.26	2632.47	2628.21
K 766.491	5297.37	5298.42	5308.94
Mg 279.078	1233.44	1235.47	1235.68
Mn 257.610	614.546	618.365	614.881
Mo 202.032	1.3819	0.6439	1.1116
Na 330.237	105424x	105554x	105448x
Ni 231.604	16.1106	16.8026	16.8468
Pb 220.353	5.6611	5.4078	7.2280
Sb 206.834	3.1862	1.6178	2.0677
Se 196.026	-4.0835u	2.0211	2.1255
Sn 189.925	1.2515	0.4571	2.3492
Sr 216.596	124.093	124.118	123.920
Ti 334.941	0.1008	0.1050	0.0943
Tl 190.794	-1.6565u	-1.0948u	-1.3265u
V 292.401	-0.4902u	-0.4388u	-0.5273u
Zn 206.200	14672.2	14746.6	14715.4

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0062b	ppb	0.0702	1132.7	-25.1765
Al 308.215	1.6633b	ppb	2.3540	141.5	448.494
As 188.980	-1.1919b	ppb	2.8429	238.5	-7.8233
B 249.678	25.5086b	ppb	0.2330	0.9	476.379
Ba 389.178	28.2370b	ppb	0.2731	1.0	546.544
Be 313.042	-0.0143b	ppb	0.0072	50.3	-311.070
Ca 370.602	50350b	ppb	71.74	0.1	134073
Cd 226.502	0.1397b	ppb	0.0927	66.3	32.0636
Co 228.615	19.3821b	ppb	0.0451	0.2	221.948
Cr 267.716	1.5122b	ppb	0.0968	6.4	122.179
Cu 324.754	-0.1771b	ppb	0.1058	59.7	221.867
Fe 271.441	2632.98b	ppb	5.0473	0.2	4362.30
K 766.491	5301.58b	ppb	6.3961	0.1	220839
Mg 279.078	1234.87b	ppb	1.2375	0.1	3389.28
Mn 257.610	615.931b	ppb	2.1152	0.3	124661
Mo 202.032	1.0458b	ppb	0.3734	35.7	12.7404

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	105475xb	ppb	69.2345	0.1	4422.74
Ni 231.604	16.5867b	ppb	0.4129	2.5	45.3596
Pb 220.353	6.0990b	ppb	0.9860	16.2	20.0275
Sb 206.834	2.2905b	ppb	0.8076	35.3	-1.4020
Se 196.026	0.0210b	ppb	3.5550	16904.3	-0.9071
Sn 189.925	1.3526b	ppb	0.9501	70.2	-4.2917
Sr 216.596	124.044b	ppb	0.1078	0.1	1620.88
Ti 334.941	0.1000b	ppb	0.0054	5.4	30.8336
Tl 190.794	-1.3593b	ppb	0.2823	20.8	-10.8676
V 292.401	-0.4854b	ppb	0.0445	9.2	-23.4993
Zn 206.200	14711.4b	ppb	37.3786	0.3	16441.5

680-107313-a-2-d (Samp) **11/20/2014, 10:00:41 PM** **Rack 2, Tube 35**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0173u	-0.1934u	-0.0257u
Al 308.215	2.7283	0.0843u	3.0521
As 188.980	0.7810	0.8160	-6.5875u
B 249.678	16.1559	16.2527	15.8808
Ba 389.178	5.2498	5.6537	4.3709
Be 313.042	-0.0136u	-0.0025u	-0.0031u
Ca 370.602	30062	30058	29988
Cd 226.502	9.6317	9.7473	9.8713
Co 228.615	22.2144	21.9786	22.2171
Cr 267.716	7276.07	7272.08	7267.61
Cu 324.754	5.0963	4.7863	5.0600
Fe 271.441	20.1738	20.7067	26.8924
K 766.491	5807.87	5812.43	5802.37
Mg 279.078	632.415	633.546	629.888
Mn 257.610	168.172	168.032	168.188
Mo 202.032	0.8033	0.4143	0.1898
Na 330.237	99473.1	99213.2	99441.2
Ni 231.604	8.1468	8.4209	8.7440
Pb 220.353	-1.4213	0.3240	0.5551
Sb 206.834	-4.7966	-3.7379	-7.7055
Se 196.026	8.4835	2.5495	-3.5358u
Sn 189.925	0.5364	0.3685	1.4321
Sr 216.596	98.9943	98.6471	98.2546
Ti 334.941	0.7631	0.7546	0.6960
Tl 190.794	2.5714	4.5441	0.3755
V 292.401	0.0219u	0.0167u	-0.4735u
Zn 206.200	32447.8x	32422.3x	32375.9x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0788b	ppb	0.0993	126.1	-32.0620
Al 308.215	1.9549b	ppb	1.6281	83.3	448.776
As 188.980	-1.6635b	ppb	4.2643	256.3	-8.0716
B 249.678	16.0965b	ppb	0.1930	1.2	326.506
Ba 389.178	5.0915b	ppb	0.6559	12.9	53.1468
Be 313.042	-0.0064b	ppb	0.0063	97.8	-302.018
Ca 370.602	30036b	ppb	41.43	0.1	79992
Cd 226.502	9.7501b	ppb	0.1198	1.2	422.780
Co 228.615	22.1367b	ppb	0.1369	0.6	270.574

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	7271.92b	ppb	4.2344	0.1	391673
Cu 324.754	4.9809b	ppb	0.1695	3.4	571.879
Fe 271.441	22.5910b	ppb	3.7347	16.5	70.8860
K 766.491	5807.56b	ppb	5.0371	0.1	241892
Mg 279.078	631.950b	ppb	1.8730	0.3	1749.96
Mn 257.610	168.131b	ppb	0.0857	0.1	34088.1
Mo 202.032	0.4691b	ppb	0.3104	66.2	8.9593
Na 330.237	99375.9b	ppb	141.735	0.1	3807.48
Ni 231.604	8.4372b	ppb	0.2990	3.5	20.5019
Pb 220.353	-0.1807b	ppb	1.0805	597.9	15.7781
Sb 206.834	-5.4133b	ppb	2.0544	38.0	78.3513
Se 196.026	2.4990b	ppb	6.0098	240.5	0.0434
Sn 189.925	0.7790b	ppb	0.5718	73.4	-4.7293
Sr 216.596	98.6320b	ppb	0.3701	0.4	1282.79
Ti 334.941	0.7379b	ppb	0.0365	4.9	219.562
Tl 190.794	2.4970b	ppb	2.0853	83.5	-6.6275
V 292.401	-0.1449b	ppb	0.2846	196.3	-329.483
Zn 206.200	32415.3xb	ppb	36.4307	0.1	36210.6

680-107313-a-3-d (Samp) **11/20/2014, 10:04:59 PM** **Rack 2, Tube 36**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0130u	0.0836	-0.0230u
Al 308.215	4.3329	5.1352	2.4650
As 188.980	-0.3604u	-0.5095u	2.8198
B 249.678	22.5712	22.0821	22.7438
Ba 389.178	10.4335	10.0494	10.5866
Be 313.042	-0.0029u	-0.0081u	-0.0055u
Ca 370.602	42867	42805	42633
Cd 226.502	11.0918	11.1501	11.1634
Co 228.615	24.6123	24.6898	24.0715
Cr 267.716	13782.1x	13734.0x	13736.8x
Cu 324.754	5.0823	4.9914	4.9613
Fe 271.441	4.2185	16.2155	10.3980
K 766.491	8645.78	8657.69	8640.88
Mg 279.078	503.241	504.349	505.933
Mn 257.610	149.749	150.003	149.932
Mo 202.032	1.9460	1.1758	0.9162
Na 330.237	100654	100823	101033
Ni 231.604	5.4653	4.8297	5.8266
Pb 220.353	-4.3698	-6.2394	-3.8983
Sb 206.834	-7.1144	-5.8055	-2.7312
Se 196.026	-2.6797u	-6.6242u	0.9419
Sn 189.925	-0.0100	2.4584	-1.2990u
Sr 216.596	94.1120	93.7832	93.4848
Ti 334.941	1.4613	1.4295	1.4593
Tl 190.794	3.8513	2.7359	2.8738
V 292.401	-1.1821u	-1.3102u	-0.8354u
Zn 206.200	32376.8x	32402.8x	32334.4x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0159b	ppb	0.0588	371.2	-24.2587
Al 308.215	3.9777b	ppb	1.3701	34.4	461.234

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	0.6500b	ppb	1.8806	289.3	-6.7826
B 249.678	22.4657b	ppb	0.3432	1.5	432.862
Ba 389.178	10.3565b	ppb	0.2768	2.7	164.402
Be 313.042	-0.0055b	ppb	0.0026	47.7	-296.621
Ca 370.602	42768b	ppb	121.1	0.3	113898
Cd 226.502	11.1351b	ppb	0.0381	0.3	480.418
Co 228.615	24.4579b	ppb	0.3368	1.4	312.562
Cr 267.716	13751.0xb	ppb	27.0311	0.2	740609
Cu 324.754	5.0117b	ppb	0.0630	1.3	574.131
Fe 271.441	10.2773b	ppb	5.9994	58.4	63.5378
K 766.491	8648.12b	ppb	8.6474	0.1	360083
Mg 279.078	504.508b	ppb	1.3533	0.3	1401.87
Mn 257.610	149.895b	ppb	0.1310	0.1	30399.3
Mo 202.032	1.3460b	ppb	0.5356	39.8	14.9218
Na 330.237	100837b	ppb	189.872	0.2	3873.53
Ni 231.604	5.3739b	ppb	0.5047	9.4	11.2299
Pb 220.353	-4.8358b	ppb	1.2382	25.6	13.7788
Sb 206.834	-5.2170b	ppb	2.2501	43.1	159.441
Se 196.026	-2.7873b	ppb	3.7842	135.8	-2.2404
Sn 189.925	0.3832b	ppb	1.9093	498.3	-5.0289
Sr 216.596	93.7933b	ppb	0.3137	0.3	1226.04
Ti 334.941	1.4500b	ppb	0.0178	1.2	430.674
Tl 190.794	3.1537b	ppb	0.6081	19.3	-5.9504
V 292.401	-1.1092b	ppb	0.2456	22.1	-637.806
Zn 206.200	32371.3xb	ppb	34.5206	0.1	36147.8

Cont Calib Verif (CCV) **11/20/2014, 10:09:16 PM** **Rack 2, Tube 37**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	503.117	502.042	504.154
Al 308.215	4929.35	4907.58	4888.61
As 188.980	493.635	491.177	495.515
B 249.678	491.531	493.975	494.235
Ba 389.178	5264.71	5245.86	5230.53
Be 313.042	526.911	526.321	522.359
Ca 370.602	4959	4946	4917
Cd 226.502	525.532	524.120	522.083
Co 228.615	529.270	527.051	525.285
Cr 267.716	5252.37	5235.73	5215.86
Cu 324.754	5302.42	5319.29	5389.95
Fe 271.441	4973.22	4952.20	4933.74
K 766.491	10351.5	10330.5	10285.4
Mg 279.078	4968.00	4946.25	4936.50
Mn 257.610	5348.79	5330.13	5295.39
Mo 202.032	497.907	495.185	494.570
Na 330.237	7552.02	7693.23	7569.05
Ni 231.604	2599.28	2613.15	2609.02
Pb 220.353	498.029	498.022	492.745
Sb 206.834	982.292	980.428	975.840
Se 196.026	4875.65	4877.21	4875.82
Sn 189.925	4979.88	4964.18	4938.16
Sr 216.596	2483.69	2475.93	2465.76
Ti 334.941	499.974	498.662	497.144

Label	Replicates Concentration		
Tl 190.794	5036.20	5025.81	5006.59
V 292.401	4951.86	4937.72	4916.90
Zn 206.200	2632.66	2624.39	2616.58

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	503.105	ppb	1.0561	0.2	41259.9	100.62093
Al 308.215	4908.51	ppb	20.3866	0.4	34428.5	98.17027
As 188.980	493.442	ppb	2.1754	0.4	267.660	98.68844
B 249.678	493.247	ppb	1.4917	0.3	8257.52	98.64940
Ba 389.178	5247.03	ppb	17.1196	0.3	111117	104.94060
Be 313.042	525.197	ppb	2.4757	0.5	959189	105.03941
Ca 370.602	4941	ppb	21.72	0.4	13486	98.81230
Cd 226.502	523.912	ppb	1.7335	0.3	21851.5	104.78233
Co 228.615	527.202	ppb	1.9967	0.4	6086.90	105.44047
Cr 267.716	5234.65	ppb	18.2825	0.3	281923	104.69304
Cu 324.754	5337.22	ppb	46.4413	0.9	363329	106.74441
Fe 271.441	4953.06	ppb	19.7530	0.4	8295.13	99.06114
K 766.491	10322.5	ppb	33.7528	0.3	429750	103.22462
Mg 279.078	4950.25	ppb	16.1240	0.3	13448.8	99.00496
Mn 257.610	5324.77	ppb	27.1005	0.5	1076990	106.49539
Mo 202.032	495.887	ppb	1.7759	0.4	3366.05	99.17747
Na 330.237	7604.77	ppb	77.0803	1.0	314.546	101.39690
Ni 231.604	2607.15	ppb	7.1230	0.3	7882.20	104.28604
Pb 220.353	496.265	ppb	3.0486	0.6	818.931	99.25305
Sb 206.834	979.520	ppb	3.3206	0.3	1389.36	97.95197
Se 196.026	4876.23	ppb	0.8571	0.0	2102.98	97.52452
Sn 189.925	4960.74	ppb	21.0700	0.4	3754.32	99.21485
Sr 216.596	2475.13	ppb	8.9902	0.4	31715.5	99.00517
Ti 334.941	498.594	ppb	1.4164	0.3	148055	99.71872
Tl 190.794	5022.87	ppb	15.0223	0.3	5301.20	100.45737
V 292.401	4935.49	ppb	17.5888	0.4	128895	98.70982
Zn 206.200	2624.54	ppb	8.0375	0.3	2923.21	104.98179

Cont Calib Blank (CCB) **11/20/2014, 10:13:32 PM** **Rack 2, Tube 38**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0310u	-0.0543u	0.2429
Al 308.215	-0.9662u	-2.1044u	-1.6320u
As 188.980	3.1166	0.4890	0.9209
B 249.678	7.2079	6.2797	5.4793
Ba 389.178	0.0502	1.2970	0.4152
Be 313.042	0.0111	0.0043	0.0139
Ca 370.602	1.440	7.894	7.611
Cd 226.502	0.1388	0.0225	0.0564
Co 228.615	0.5748	-0.0955u	0.3590
Cr 267.716	0.1271	0.4960	0.2297
Cu 324.754	-0.1961u	-0.0522u	0.1322
Fe 271.441	3.6006	-1.0188u	0.4091
K 766.491	1.6697	1.3692	1.5897
Mg 279.078	-0.6463u	0.5674	-0.8015u
Mn 257.610	0.1308	0.2076	0.2269
Mo 202.032	0.6748	0.2262	0.4662
Na 330.237	-101.931u	-56.7286u	-25.7448u

Label	Replicates Concentration		
Ni 231.604	1.0064	0.2459	0.2146
Pb 220.353	4.3756	-0.1210u	-0.8958u
Sb 206.834	4.1160	1.7356	2.2723
Se 196.026	-7.0597u	-9.3900u	-1.9069u
Sn 189.925	0.0173	0.9510	1.4966
Sr 216.596	0.3956	-0.0276u	-0.0404u
Ti 334.941	0.1082	0.0694	0.0766
Tl 190.794	5.8129	3.3564	3.3750
V 292.401	-0.2010u	0.1231	-0.1095u
Zn 206.200	-0.5110u	-0.5151u	1.5525

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0525	ppb	0.1653	314.7	-18.6819	0.05253
Al 308.215	-1.5675	ppb	0.5718	36.5	426.430	-1.56752
As 188.980	1.5088	ppb	1.4090	93.4	-6.3038	1.50879
B 249.678	6.3223	ppb	0.8651	13.7	163.635	6.32228
Ba 389.178	0.5875	ppb	0.6410	109.1	-43.5079	0.58747
Be 313.042	0.0097	ppb	0.0049	50.7	-274.075	0.00974
Ca 370.602	5.649	ppb	3.647	64.6	20.82	5.64856
Cd 226.502	0.0726	ppb	0.0598	82.4	20.2191	0.07258
Co 228.615	0.2794	ppb	0.3422	122.4	1.3798	0.27944
Cr 267.716	0.2843	ppb	0.1904	67.0	50.1326	0.28425
Cu 324.754	-0.0387	ppb	0.1646	425.5	230.193	-0.03869
Fe 271.441	0.9970	ppb	2.3651	237.2	18.5192	0.99697
K 766.491	1.5429	ppb	0.1557	10.1	312.373	1.54286
Mg 279.078	-0.2935	ppb	0.7495	255.4	24.6787	-0.29349
Mn 257.610	0.1884	ppb	0.0508	27.0	119.540	0.18841
Mo 202.032	0.4557	ppb	0.2245	49.3	8.8587	0.45574
Na 330.237	-61.4682	ppb	38.3138	62.3	26.1955	-61.46823
Ni 231.604	0.4890	ppb	0.4484	91.7	-3.5350	0.48899
Pb 220.353	1.1196	ppb	2.8463	254.2	11.6515	1.11959
Sb 206.834	2.7080	ppb	1.2486	46.1	-0.8852	2.70797
Se 196.026	-6.1188	ppb	3.8292	62.6	-3.7095	-6.11883
Sn 189.925	0.8216	ppb	0.7481	91.0	-4.7261	0.82162
Sr 216.596	0.1092	ppb	0.2481	227.2	5.5374	0.10920
Ti 334.941	0.0847	ppb	0.0206	24.4	31.8979	0.08473
Tl 190.794	4.1814	ppb	1.4129	33.8	-4.9717	4.18144
V 292.401	-0.0624	ppb	0.1671	267.6	-10.5519	-0.06245
Zn 206.200	0.1755	ppb	1.1925	679.6	1.6406	0.17546

680-107313-a-4-d (Samp) **11/20/2014, 10:17:49 PM** **Rack 2, Tube 39**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0128u	0.1980	-0.0643u
Al 308.215	-0.0903	3.3413	2.4028
As 188.980	0.6562	-3.0357u	0.5842
B 249.678	17.5957	17.2476	17.0384
Ba 389.178	43.2884	43.2545	43.5375
Be 313.042	-0.0041u	-0.0025u	-0.0092u
Ca 370.602	14105	14192	14223
Cd 226.502	0.2871	0.3094	0.1509
Co 228.615	8.1645	6.7869	7.4821
Cr 267.716	323.330	323.996	323.518

Label	Replicates Concentration		
Cu 324.754	-0.1625	-0.3771u	-0.2955u
Fe 271.441	31168.2	31313.5	31250.8
K 766.491	1087.74	1094.44	1090.67
Mg 279.078	136.293	138.047	137.580
Mn 257.610	399.564	400.751	398.692
Mo 202.032	0.6180	0.3162	0.5293
Na 330.237	94179.4	94237.3	94093.8
Ni 231.604	16.4152	15.8617	16.5279
Pb 220.353	5.6464	1.6047	-0.1651
Sb 206.834	2.7699	2.8839	0.8010
Se 196.026	-1.9920u	8.3375	8.5284
Sn 189.925	-2.7356u	-1.6215u	-0.1505u
Sr 216.596	22.4247	22.4775	22.5133
Ti 334.941	0.0131	-0.0355u	-0.0277u
Tl 190.794	0.9606u	-0.1479u	-1.6991u
V 292.401	-0.4172u	-0.3270u	-0.4968u
Zn 206.200	10652.6	10667.8	10686.0

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0489b	ppb	0.1348	275.9	-23.0384
Al 308.215	1.8846b	ppb	1.7735	94.1	453.150
As 188.980	-0.5984b	ppb	2.1110	352.8	-7.6500
B 249.678	17.2939b	ppb	0.2815	1.6	273.602
Ba 389.178	43.3602b	ppb	0.1545	0.4	885.723
Be 313.042	-0.0053b	ppb	0.0035	66.4	-306.823
Ca 370.602	14174b	ppb	61.11	0.4	37455
Cd 226.502	0.2491b	ppb	0.0858	34.4	141.537
Co 228.615	7.4778b	ppb	0.6888	9.2	87.3349
Cr 267.716	323.615b	ppb	0.3437	0.1	17481.8
Cu 324.754	-0.2784b	ppb	0.1083	38.9	226.492
Fe 271.441	31244.2b	ppb	72.9072	0.2	51556.1
K 766.491	1090.95b	ppb	3.3586	0.3	45641.1
Mg 279.078	137.307b	ppb	0.9086	0.7	392.647
Mn 257.610	399.669b	ppb	1.0336	0.3	80997.0
Mo 202.032	0.4878b	ppb	0.1551	31.8	7.6084
Na 330.237	94170.2b	ppb	72.2353	0.1	3993.66
Ni 231.604	16.2682b	ppb	0.3565	2.2	46.8178
Pb 220.353	2.3620b	ppb	2.9789	126.1	16.1780
Sb 206.834	2.1516b	ppb	1.1710	54.4	2.9379
Se 196.026	4.9580b	ppb	6.0196	121.4	1.4197
Sn 189.925	-1.5025b	ppb	1.2967	86.3	-6.4590
Sr 216.596	22.4718b	ppb	0.0446	0.2	341.860
Ti 334.941	-0.0167b	ppb	0.0261	156.2	-1.4681
Tl 190.794	-0.2955b	ppb	1.3359	452.1	-14.2091
V 292.401	-0.4137b	ppb	0.0850	20.5	-45.8080
Zn 206.200	10668.8b	ppb	16.7498	0.2	11922.1

680-107317-a-1-d (Samp) **11/20/2014, 10:22:05 PM** **Rack 2, Tube 40**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1693u	0.0420	0.1275
Al 308.215	1.5407	5.0327	4.8179
As 188.980	-2.5303u	-1.3423u	-0.9646u

Label	Replicates Concentration		
B 249.678	44.2239	44.7138	44.1714
Ba 389.178	78.4198	78.2192	77.4600
Be 313.042	0.0542	0.0569	0.0529
Ca 370.602	6934	6939	6901
Cd 226.502	0.4266	0.5345	0.5038
Co 228.615	2.4998	3.0630	2.3279
Cr 267.716	23.7578	23.9405	23.8253
Cu 324.754	-0.2095u	-0.2757u	-0.4268u
Fe 271.441	16010.4	16007.5	15988.7
K 766.491	502.587	503.939	503.847
Mg 279.078	254.990	255.120	255.588
Mn 257.610	342.096	342.196	341.259
Mo 202.032	0.2752	-0.1543u	0.3916
Na 330.237	100311	101087	100899
Ni 231.604	4.0262	3.1080	3.0647
Pb 220.353	4.4297	4.4337	2.3990
Sb 206.834	0.7851	0.3253	3.2651
Se 196.026	2.0421	-6.9574u	-4.6723u
Sn 189.925	-0.6149u	-0.8432u	1.1841
Sr 216.596	42.9456	43.0372	42.1372
Ti 334.941	-0.1208u	-0.1228u	-0.0288u
Tl 190.794	-2.5629u	0.1628u	-0.1398u
V 292.401	-0.0779u	-0.3804u	-0.2472u
Zn 206.200	32552.2x	32524.4x	32383.5x

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0000b	ppb	0.1528	348315.5	-25.4168
Al 308.215	3.7971b	ppb	1.9571	51.5	464.515
As 188.980	-1.6124b	ppb	0.8170	50.7	-8.1309
B 249.678	44.3697b	ppb	0.2992	0.7	758.807
Ba 389.178	78.0330b	ppb	0.5063	0.6	1609.24
Be 313.042	0.0547b	ppb	0.0021	3.8	-198.355
Ca 370.602	6925b	ppb	20.40	0.3	18298
Cd 226.502	0.4883b	ppb	0.0556	11.4	95.5493
Co 228.615	2.6302b	ppb	0.3845	14.6	29.6623
Cr 267.716	23.8412b	ppb	0.0924	0.4	1329.30
Cu 324.754	-0.3040b	ppb	0.1114	36.6	218.577
Fe 271.441	16002.2b	ppb	11.7659	0.1	26413.1
K 766.491	503.457b	ppb	0.7556	0.2	21196.3
Mg 279.078	255.233b	ppb	0.3146	0.1	716.277
Mn 257.610	341.851b	ppb	0.5145	0.2	69262.1
Mo 202.032	0.1708b	ppb	0.2875	168.3	6.1739
Na 330.237	100766b	ppb	404.999	0.4	3863.86
Ni 231.604	3.3996b	ppb	0.5431	16.0	6.6405
Pb 220.353	3.7541b	ppb	1.1736	31.3	17.1162
Sb 206.834	1.4585b	ppb	1.5814	108.4	-2.0051
Se 196.026	-3.1959b	ppb	4.6779	146.4	-2.2391
Sn 189.925	-0.0913b	ppb	1.1105	1215.9	-5.3884
Sr 216.596	42.7067b	ppb	0.4953	1.2	577.714
Ti 334.941	-0.0908b	ppb	0.0537	59.2	-25.3596
Tl 190.794	-0.8467b	ppb	1.4940	176.5	-12.5218
V 292.401	-0.2351b	ppb	0.1516	64.5	-22.4972
Zn 206.200	32486.7xb	ppb	90.4271	0.3	36305.1

680-107317-a-2-d (Samp) **11/20/2014, 10:26:22 PM** **Rack 2, Tube 41**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1567u	0.0854	-0.0631u
Al 308.215	51.5319	53.6925	50.3163
As 188.980	-6.6292u	-1.9915u	5.2307
B 249.678	52.5844	52.1508	53.0407
Ba 389.178	206.743	206.297	204.347
Be 313.042	0.2092	0.2112	0.2067
Ca 370.602	2245	2243	2243
Cd 226.502	0.6164	0.7650	0.8376
Co 228.615	2.8904	3.4779	3.1092
Cr 267.716	29.9496	30.1538	30.0878
Cu 324.754	-0.2207u	-0.2561u	-0.2849u
Fe 271.441	9849.59	9905.68	9873.16
K 766.491	198.194	198.506	198.290
Mg 279.078	138.091	135.358	136.768
Mn 257.610	175.014	176.190	175.417
Mo 202.032	0.0237u	0.3221	0.2133
Na 330.237	96556.0x	97107.7x	96628.1x
Ni 231.604	225.155	225.431	223.441
Pb 220.353	6.0359	6.0647	5.7205
Sb 206.834	-0.1635	0.2806	2.8849
Se 196.026	-7.3282u	-6.7266u	1.6886
Sn 189.925	1.0338	2.7087	0.1512
Sr 216.596	19.0043	18.9181	18.5872
Ti 334.941	-0.0581u	-0.1303u	-0.0861u
Tl 190.794	1.0652u	-0.2468u	0.5895u
V 292.401	-0.0542u	-0.4118u	-0.2774u
Zn 206.200	6301.97	6326.57	6325.35

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0448b	ppb	0.1221	272.7	-28.0760
Al 308.215	51.8469b	ppb	1.7100	3.3	789.994
As 188.980	-1.1300b	ppb	5.9767	528.9	-7.8285
B 249.678	52.5920b	ppb	0.4450	0.8	909.571
Ba 389.178	205.795b	ppb	1.2744	0.6	4310.90
Be 313.042	0.2090b	ppb	0.0022	1.1	80.4595
Ca 370.602	2244b	ppb	1.129	0.1	5889
Cd 226.502	0.7397b	ppb	0.1128	15.2	83.6369
Co 228.615	3.1592b	ppb	0.2969	9.4	35.3556
Cr 267.716	30.0637b	ppb	0.1042	0.3	1661.20
Cu 324.754	-0.2539b	ppb	0.0321	12.7	219.528
Fe 271.441	9876.14b	ppb	28.1675	0.3	16308.1
K 766.491	198.330b	ppb	0.1599	0.1	8500.40
Mg 279.078	136.739b	ppb	1.3667	1.0	395.714
Mn 257.610	175.540b	ppb	0.5974	0.3	35610.2
Mo 202.032	0.1864b	ppb	0.1510	81.0	6.5663
Na 330.237	96763.9xb	ppb	299.880	0.3	4198.42
Ni 231.604	224.676b	ppb	1.0782	0.5	675.580
Pb 220.353	5.9404b	ppb	0.1909	3.2	20.2083
Sb 206.834	1.0007b	ppb	1.6468	164.6	-2.6613
Se 196.026	-4.1221b	ppb	5.0412	122.3	-2.7264
Sn 189.925	1.2979b	ppb	1.2990	100.1	-4.3355
Sr 216.596	18.8365b	ppb	0.2202	1.2	254.214

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	-0.0915b	ppb	0.0364	39.8	-26.5281
Tl 190.794	0.4693b	ppb	0.6642	141.5	-10.2897
V 292.401	-0.2478b	ppb	0.1806	72.9	-20.9168
Zn 206.200	6317.96b	ppb	13.8655	0.2	7061.42

680-107317-a-3-d (Samp) **11/20/2014, 10:30:38 PM** **Rack 2, Tube 42**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0753	0.0791	0.0836
Al 308.215	12.1026	12.2624	11.1633
As 188.980	1.6883	-1.6037u	-2.8141u
B 249.678	39.8855	40.9552	40.2128
Ba 389.178	102.669	102.092	102.880
Be 313.042	0.1464	0.1496	0.1494
Ca 370.602	5126	5136	5116
Cd 226.502	0.7009	0.7749	0.7460
Co 228.615	5.4264	6.0385	5.6012
Cr 267.716	21.1419	21.1482	20.9806
Cu 324.754	-0.5385u	-0.3565u	-0.2578u
Fe 271.441	17545.6	17528.1	17488.2
K 766.491	313.021	312.877	312.831
Mg 279.078	227.415	224.394	226.850
Mn 257.610	275.611	275.220	274.768
Mo 202.032	-0.1063u	0.1912	-0.0898u
Na 330.237	91143.0	90977.0	91201.4
Ni 231.604	159.073	161.931	159.835
Pb 220.353	1.8644	2.9103	3.3167
Sb 206.834	4.0107	2.2297	3.1238
Se 196.026	-2.8876u	5.7649	5.2628
Sn 189.925	0.3495	0.1354	-0.0799u
Sr 216.596	32.6031	33.3315	32.7640
Ti 334.941	-0.1247u	-0.1403u	-0.0865u
Tl 190.794	0.4407u	-2.5261u	-0.9177u
V 292.401	-0.1807u	-0.2541u	-0.2735u
Zn 206.200	18733.8	18723.3	18633.3

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0794	ppb	0.0041	5.2	-19.1392
Al 308.215	11.8428	ppb	0.5938	5.0	519.277
As 188.980	-0.9098	ppb	2.3300	256.1	-7.7478
B 249.678	40.3512	ppb	0.5481	1.4	688.544
Ba 389.178	102.547	ppb	0.4081	0.4	2129.57
Be 313.042	0.1485	ppb	0.0018	1.2	-27.7666
Ca 370.602	5126	ppb	10.44	0.2	13492
Cd 226.502	0.7406	ppb	0.0373	5.0	111.669
Co 228.615	5.6887	ppb	0.3153	5.5	65.0497
Cr 267.716	21.0902	ppb	0.0950	0.5	1181.67
Cu 324.754	-0.3843	ppb	0.1424	37.1	213.724
Fe 271.441	17520.6	ppb	29.4084	0.2	28918.1
K 766.491	312.910	ppb	0.0992	0.0	13267.9
Mg 279.078	226.220	ppb	1.6062	0.7	638.330
Mn 257.610	275.199	ppb	0.4222	0.2	55786.9
Mo 202.032	-0.0017	ppb	0.1672	10135.8	4.9317

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	91107.1	ppb	116.377	0.1	3703.90
Ni 231.604	160.279	ppb	1.4800	0.9	481.393
Pb 220.353	2.6971	ppb	0.7493	27.8	15.4901
Sb 206.834	3.1214	ppb	0.8905	28.5	0.2561
Se 196.026	2.7134	ppb	4.8571	179.0	0.3078
Sn 189.925	0.1350	ppb	0.2147	159.0	-5.2192
Sr 216.596	32.8995	ppb	0.3827	1.2	448.563
Ti 334.941	-0.1172	ppb	0.0277	23.6	-32.4831
Tl 190.794	-1.0010	ppb	1.4851	148.4	-12.9389
V 292.401	-0.2361	ppb	0.0489	20.7	-22.8880
Zn 206.200	18696.8	ppb	55.2372	0.3	20894.6

680-107327-a-1-h (Samp) **11/20/2014, 10:34:55 PM** **Rack 2, Tube 43**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0888u	-0.0506u	0.0143u
Al 308.215	3.6802	1.1397	3.2235
As 188.980	3.7487	-1.5224u	4.7910
B 249.678	161.959	163.205	164.563
Ba 389.178	188.652	189.372	187.227
Be 313.042	0.0028u	0.0082	0.0068
Ca 370.602	1475	1468	1461
Cd 226.502	0.0422	0.2422	0.2828
Co 228.615	4.4400	3.9875	3.9231
Cr 267.716	3.1916	3.1537	3.2595
Cu 324.754	1.0495	1.1667	0.8424
Fe 271.441	553.205	551.640	548.947
K 766.491	113.364	113.334	113.531
Mg 279.078	166.289	169.579	165.307
Mn 257.610	11.2411	11.2072	11.2955
Mo 202.032	0.0472	0.9181	0.1912
Na 330.237	92296.6	92262.2	92604.2
Ni 231.604	6.6527	4.7758	5.6394
Pb 220.353	3.8682	5.5661	2.5806
Sb 206.834	-1.2839u	-2.7018u	-0.7180u
Se 196.026	5.6970	5.4173	-6.7793u
Sn 189.925	-3.0203u	2.8075	-2.1944u
Sr 216.596	61.8613	61.5916	62.4124
Ti 334.941	-0.1550u	-0.1417u	-0.1519u
Tl 190.794	-0.2582u	1.4588	-0.4769u
V 292.401	0.0289u	-0.3844u	-0.4334u
Zn 206.200	1029.53	1021.62	1020.44

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0417b	ppb	0.0521	124.9	-28.5348
Al 308.215	2.6811b	ppb	1.3543	50.5	455.284
As 188.980	2.3391b	ppb	3.3845	144.7	-5.8441
B 249.678	163.242b	ppb	1.3022	0.8	2769.69
Ba 389.178	188.417b	ppb	1.0918	0.6	3936.00
Be 313.042	0.0059b	ppb	0.0028	47.0	-290.498
Ca 370.602	1468b	ppb	7.099	0.5	3910
Cd 226.502	0.1891b	ppb	0.1288	68.1	26.5394
Co 228.615	4.1169b	ppb	0.2817	6.8	45.6977

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	3.2016b	ppb	0.0536	1.7	209.312
Cu 324.754	1.0195b	ppb	0.1642	16.1	302.415
Fe 271.441	551.264b	ppb	2.1537	0.4	926.654
K 766.491	113.410b	ppb	0.1064	0.1	4966.99
Mg 279.078	167.058b	ppb	2.2374	1.3	482.043
Mn 257.610	11.2479b	ppb	0.0446	0.4	2358.51
Mo 202.032	0.3855b	ppb	0.4668	121.1	8.3563
Na 330.237	92387.7b	ppb	188.314	0.2	4109.71
Ni 231.604	5.6893b	ppb	0.9395	16.5	12.2369
Pb 220.353	4.0050b	ppb	1.4975	37.4	16.3705
Sb 206.834	-1.5679b	ppb	1.0220	65.2	-6.6666
Se 196.026	1.4450b	ppb	7.1238	493.0	-0.4406
Sn 189.925	-0.8024b	ppb	3.1534	393.0	-5.9282
Sr 216.596	61.9551b	ppb	0.4184	0.7	800.969
Ti 334.941	-0.1495b	ppb	0.0070	4.7	-44.5968
Tl 190.794	0.2412b	ppb	1.0601	439.5	-9.1978
V 292.401	-0.2630b	ppb	0.2539	96.6	-16.7887
Zn 206.200	1023.86b	ppb	4.9423	0.5	1145.60

680-107327-a-1-hSD^5 (Samp) **11/20/2014, 10:39:11 PM** **Rack 2, Tube 44**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1006u	0.0421	0.0602
Al 308.215	-1.1164u	-0.1421u	0.2296
As 188.980	-5.7757u	6.0389	-6.5633u
B 249.678	36.3102	35.8718	34.8761
Ba 389.178	39.7348	39.2654	38.9637
Be 313.042	-0.0008u	0.0054	0.0006u
Ca 370.602	317.4	310.1	311.0
Cd 226.502	0.0345	0.1919	0.1000
Co 228.615	0.8022	1.0626	1.1199
Cr 267.716	0.5396	0.6488	0.4310
Cu 324.754	-0.0121u	0.0297	-0.1587u
Fe 271.441	113.347	110.306	109.217
K 766.491	24.2041	23.6984	23.7466
Mg 279.078	37.0374	34.7621	32.1450
Mn 257.610	2.4679	2.4469	2.3935
Mo 202.032	0.6039	0.6392	0.4072
Na 330.237	18364.4	18457.5	18145.2
Ni 231.604	1.5402	2.7557	0.0395
Pb 220.353	1.2879	0.7895	0.9645
Sb 206.834	2.4731	3.3942	0.4886
Se 196.026	3.4865	-7.4911u	-2.5622u
Sn 189.925	-0.5272u	-1.0308u	1.8125
Sr 216.596	13.6537	12.9342	12.4328
Ti 334.941	-0.0023u	-0.0118u	-0.0134u
Tl 190.794	1.9451	0.6993	0.4942
V 292.401	-0.5286u	0.0371	-0.3081u
Zn 206.200	212.819	214.966	209.844

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0006	ppb	0.0881	15675.9	-23.3965
Al 308.215	-0.3430	ppb	0.6951	202.7	-434.743

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	-2.1000	ppb	7.0595	336.2	-8.3152
B 249.678	35.6860	ppb	0.7348	2.1	651.265
Ba 389.178	39.3213	ppb	0.3886	1.0	777.138
Be 313.042	0.0017	ppb	0.0033	188.6	-290.612
Ca 370.602	312.8	ppb	3.973	1.3	837.7
Cd 226.502	0.1088	ppb	0.0790	72.6	22.0185
Co 228.615	0.9949	ppb	0.1693	17.0	9.6391
Cr 267.716	0.5398	ppb	0.1089	20.2	64.3057
Cu 324.754	-0.0470	ppb	0.0989	210.3	229.672
Fe 271.441	110.957	ppb	2.1405	1.9	199.967
K 766.491	23.8830	ppb	0.2791	1.2	1241.91
Mg 279.078	34.6482	ppb	2.4482	7.1	120.174
Mn 257.610	2.4361	ppb	0.0384	1.6	574.579
Mo 202.032	0.5501	ppb	0.1251	22.7	9.4942
Na 330.237	18322.4	ppb	160.327	0.9	838.044
Ni 231.604	1.4452	ppb	1.3606	94.1	-0.6340
Pb 220.353	1.0139	ppb	0.2528	24.9	11.4882
Sb 206.834	2.1186	ppb	1.4849	70.1	-1.6849
Se 196.026	-2.1890	ppb	5.4983	251.2	-2.0134
Sn 189.925	0.0849	ppb	1.5173	1788.1	-5.2788
Sr 216.596	13.0069	ppb	0.6137	4.7	171.414
Ti 334.941	-0.0092	ppb	0.0060	65.6	2.6461
Tl 190.794	1.0462	ppb	0.7852	75.1	-8.2949
V 292.401	-0.2666	ppb	0.2851	107.0	-16.0967
Zn 206.200	212.543	ppb	2.5719	1.2	238.960

680-107327-a-1-hPDS (Samp) **11/20/2014, 10:43:28 PM** **Rack 2, Tube 45**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	102.564	103.162	102.835
Al 308.215	1014.17	1018.14	1015.21
As 188.980	105.360	103.491	106.652
B 249.678	362.675	365.211	365.711
Ba 389.178	280.526	280.248	280.139
Be 313.042	108.155	108.399	108.279
Ca 370.602	11690	11717	11687
Cd 226.502	105.323	105.038	104.832
Co 228.615	111.410	110.951	110.928
Cr 267.716	111.511	112.005	111.762
Cu 324.754	110.384	111.381	111.340
Fe 271.441	10622.4	10652.3	10618.3
K 766.491	11484.1	11539.9	11544.2
Mg 279.078	10004.6	10029.5	10002.5
Mn 257.610	1122.87	1126.21	1124.82
Mo 202.032	103.053	101.249	102.587
Na 330.237	101821x	101839x	102150x
Ni 231.604	110.227	109.111	111.167
Pb 220.353	102.869	104.920	99.1673
Sb 206.834	99.8673	101.728	100.369
Se 196.026	95.1106	92.5276	85.4253
Sn 189.925	95.8348	96.4939	98.5370
Sr 216.596	162.319	161.746	161.790
Ti 334.941	103.711	103.984	103.237

Label	Replicates Concentration		
Tl 190.794	18.5157	18.2414	18.2329
V 292.401	102.799	102.657	102.783
Zn 206.200	1121.15	1117.39	1115.37

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	102.854b	ppb	0.2994	0.3	8424.47
Al 308.215	1015.84b	ppb	2.0547	0.2	7348.80
As 188.980	105.168b	ppb	1.5892	1.5	51.3731
B 249.678	364.532b	ppb	1.6281	0.4	6092.53
Ba 389.178	280.305b	ppb	0.1997	0.1	5909.91
Be 313.042	108.278b	ppb	0.1218	0.1	197462
Ca 370.602	11698b	ppb	16.43	0.1	31123
Cd 226.502	105.064b	ppb	0.2463	0.2	4430.58
Co 228.615	111.096b	ppb	0.2720	0.2	1280.27
Cr 267.716	111.759b	ppb	0.2471	0.2	6064.21
Cu 324.754	111.035b	ppb	0.5638	0.5	7794.30
Fe 271.441	10631.0b	ppb	18.6013	0.2	17567.1
K 766.491	11522.7b	ppb	33.4950	0.3	479692
Mg 279.078	10012.2b	ppb	15.0481	0.2	27378.4
Mn 257.610	1124.63b	ppb	1.6752	0.1	227624
Mo 202.032	102.296b	ppb	0.9364	0.9	699.503
Na 330.237	101937xb	ppb	184.897	0.2	4529.53
Ni 231.604	110.169b	ppb	1.0295	0.9	328.930
Pb 220.353	102.319b	ppb	2.9154	2.8	176.495
Sb 206.834	100.655b	ppb	0.9626	1.0	132.642
Se 196.026	91.0212b	ppb	5.0153	5.5	38.5149
Sn 189.925	96.9552b	ppb	1.4089	1.5	68.1641
Sr 216.596	161.952b	ppb	0.3190	0.2	2099.02
Ti 334.941	103.644b	ppb	0.3780	0.4	30791.3
Tl 190.794	18.3300b	ppb	0.1609	0.9	9.0275
V 292.401	102.747b	ppb	0.0779	0.1	2652.87
Zn 206.200	1117.97b	ppb	2.9338	0.3	1250.17

680-107327-a-1-i ms (Samp) **11/20/2014, 10:47:44 PM** **Rack 2, Tube 46**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	119.655	120.478	119.683
Al 308.215	1663.30	1672.53	1663.24
As 188.980	166.479	176.677	181.248
B 249.678	452.830	456.647	456.337
Ba 389.178	298.561	301.340	299.076
Be 313.042	177.209	177.947	177.141
Ca 370.602	17899	18064	17984
Cd 226.502	170.514	171.287	170.247
Co 228.615	178.288	178.822	178.898
Cr 267.716	177.976	179.094	178.010
Cu 324.754	181.980	182.418	181.441
Fe 271.441	16917.9	16987.1	16919.5
K 766.491	17904.6	17920.4	17814.3
Mg 279.078	16200.7	16302.7	16224.4
Mn 257.610	1831.58	1835.18	1827.90
Mo 202.032	165.440	168.793	167.747
Na 330.237	87936.7	87464.2	87156.5

Label	Replicates Concentration		
Ni 231.604	177.053	177.106	177.386
Pb 220.353	164.487	163.522	164.898
Sb 206.834	167.966	167.994	169.104
Se 196.026	155.110	165.996	157.615
Sn 189.925	159.821	164.630	162.174
Sr 216.596	212.202	212.590	212.848
Ti 334.941	169.158	169.753	169.064
Tl 190.794	33.1537	30.3286	36.7181
V 292.401	168.672	169.439	169.462
Zn 206.200	963.309	968.757	967.392

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	119.939	ppb	0.4673	0.4	9828.77
Al 308.215	1666.36	ppb	5.3475	0.3	11774.9
As 188.980	174.801	ppb	7.5613	4.3	90.1232
B 249.678	455.271	ppb	2.1200	0.5	7586.65
Ba 389.178	299.659	ppb	1.4783	0.5	6337.23
Be 313.042	177.432	ppb	0.4472	0.3	323771
Ca 370.602	17982	ppb	82.87	0.5	47841
Cd 226.502	170.683	ppb	0.5402	0.3	7186.24
Co 228.615	178.669	ppb	0.3322	0.2	2060.05
Cr 267.716	178.360	ppb	0.6356	0.4	9655.98
Cu 324.754	181.946	ppb	0.4891	0.3	12623.2
Fe 271.441	16941.5	ppb	39.5048	0.2	27985.1
K 766.491	17879.8	ppb	57.2869	0.3	744199
Mg 279.078	16242.6	ppb	53.3772	0.3	44399.3
Mn 257.610	1831.55	ppb	3.6415	0.2	370650
Mo 202.032	167.327	ppb	1.7159	1.0	1140.54
Na 330.237	87519.1	ppb	393.026	0.4	3891.14
Ni 231.604	177.182	ppb	0.1786	0.1	532.046
Pb 220.353	164.302	ppb	0.7064	0.4	277.444
Sb 206.834	168.355	ppb	0.6494	0.4	224.865
Se 196.026	159.574	ppb	5.7009	3.6	68.2852
Sn 189.925	162.208	ppb	2.4043	1.5	117.614
Sr 216.596	212.547	ppb	0.3254	0.2	2757.33
Ti 334.941	169.325	ppb	0.3735	0.2	50306.0
Tl 190.794	33.4001	ppb	3.2018	9.6	24.3964
V 292.401	169.191	ppb	0.4495	0.3	4375.32
Zn 206.200	966.486	ppb	2.8348	0.3	1080.51

680-107327-a-1-j msd (Samp) **11/20/2014, 10:52:01 PM** **Rack 2, Tube 47**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	134.788	134.144	135.056
Al 308.215	1632.15	1634.24	1636.85
As 188.980	172.745	171.729	174.278
B 249.678	448.644	453.263	456.271
Ba 389.178	293.404	293.593	293.770
Be 313.042	174.043	174.399	174.999
Ca 370.602	17585	17631	17692
Cd 226.502	168.622	168.627	169.015
Co 228.615	174.021	175.465	176.109
Cr 267.716	174.173	174.695	175.414

Label	Replicates Concentration		
Cu 324.754	179.382	178.506	179.036
Fe 271.441	16592.9	16635.2	16661.2
K 766.491	17443.6	17450.1	17504.2
Mg 279.078	15885.9	15903.9	15971.9
Mn 257.610	1793.85	1796.45	1798.92
Mo 202.032	164.480	162.834	165.283
Na 330.237	85311.6	85600.2	85526.3
Ni 231.604	171.856	172.339	173.422
Pb 220.353	159.190	162.139	162.469
Sb 206.834	163.009	163.549	165.492
Se 196.026	155.684	153.164	161.724
Sn 189.925	156.006	160.377	158.371
Sr 216.596	207.347	208.545	208.756
Ti 334.941	165.886	166.148	166.600
Tl 190.794	33.6752	28.8923	31.4244
V 292.401	165.644	166.521	166.930
Zn 206.200	942.023	934.470	948.858

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	134.663	ppb	0.4688	0.3	11038.3
Al 308.215	1634.41	ppb	2.3553	0.1	11557.5
As 188.980	172.917	ppb	1.2832	0.7	89.0760
B 249.678	452.726	ppb	3.8414	0.8	7545.05
Ba 389.178	293.589	ppb	0.1830	0.1	6207.75
Be 313.042	174.480	ppb	0.4836	0.3	318380
Ca 370.602	17636	ppb	53.58	0.3	46920
Cd 226.502	168.755	ppb	0.2252	0.1	7104.80
Co 228.615	175.198	ppb	1.0694	0.6	2020.00
Cr 267.716	174.761	ppb	0.6231	0.4	9461.84
Cu 324.754	178.975	ppb	0.4412	0.2	12420.8
Fe 271.441	16629.8	ppb	34.4508	0.2	27470.5
K 766.491	17465.9	ppb	33.2627	0.2	726980
Mg 279.078	15920.6	ppb	45.3736	0.3	43519.6
Mn 257.610	1796.41	ppb	2.5350	0.1	363540
Mo 202.032	164.199	ppb	1.2486	0.8	1119.33
Na 330.237	85479.3	ppb	149.908	0.2	3801.17
Ni 231.604	172.539	ppb	0.8019	0.5	517.981
Pb 220.353	161.266	ppb	1.8058	1.1	272.498
Sb 206.834	164.016	ppb	1.3058	0.8	218.951
Se 196.026	156.858	ppb	4.3991	2.8	67.1033
Sn 189.925	158.251	ppb	2.1879	1.4	114.614
Sr 216.596	208.216	ppb	0.7598	0.4	2701.32
Ti 334.941	166.211	ppb	0.3609	0.2	49380.9
Tl 190.794	31.3306	ppb	2.3929	7.6	22.2395
V 292.401	166.365	ppb	0.6570	0.4	4302.26
Zn 206.200	941.784	ppb	7.1972	0.8	1052.92

680-107327-a-2-d (Samp) **11/20/2014, 10:56:18 PM** **Rack 2, Tube 48**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0243	0.2170	0.2501
Al 308.215	26.7141	25.4657	25.3254
As 188.980	-7.4992u	-3.6852u	-2.6521u

Label	Replicates Concentration		
B 249.678	174.728	173.845	175.693
Ba 389.178	60.0596	59.9525	59.1774
Be 313.042	0.0075	0.0043	0.0058
Ca 370.602	7741	7713	7767
Cd 226.502	0.8376	0.8596	0.9747
Co 228.615	3.2347	3.2640	3.2221
Cr 267.716	7.9144	7.7587	7.9629
Cu 324.754	8.4272	8.3086	8.5623
Fe 271.441	129.128	126.792	122.932
K 766.491	1504.37	1497.32	1500.44
Mg 279.078	298.548	294.488	296.020
Mn 257.610	15.9663	15.9198	15.9268
Mo 202.032	1.4740	0.9120	1.6362
Na 330.237	93648.9x	93609.6x	94132.3x
Ni 231.604	2.4710	0.7925	1.5040
Pb 220.353	8.3035	10.9898	9.4846
Sb 206.834	6.0258	5.6936	4.3159
Se 196.026	1.3846	2.4546	-3.8669u
Sn 189.925	-1.5478u	0.8888	-2.2321u
Sr 216.596	25.1141	24.6455	24.7303
Ti 334.941	-0.0436u	0.0365	0.0003u
Tl 190.794	-1.6966u	0.9209	0.4397
V 292.401	0.0150u	-0.2501u	-0.0707u
Zn 206.200	692.185	692.775	693.153

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1638b	ppb	0.1220	74.5	-10.3438
Al 308.215	25.8350b	ppb	0.7645	3.0	612.430
As 188.980	-4.6122b	ppb	2.5530	55.4	-9.7153
B 249.678	174.755b	ppb	0.9243	0.5	2962.09
Ba 389.178	59.7298b	ppb	0.4814	0.8	1209.98
Be 313.042	0.0059b	ppb	0.0016	27.4	-288.685
Ca 370.602	7740b	ppb	27.05	0.3	20616
Cd 226.502	0.8906b	ppb	0.0736	8.3	54.1904
Co 228.615	3.2403b	ppb	0.0215	0.7	35.5462
Cr 267.716	7.8787b	ppb	0.1067	1.4	461.045
Cu 324.754	8.4327b	ppb	0.1269	1.5	806.666
Fe 271.441	126.284b	ppb	3.1289	2.5	225.536
K 766.491	1500.71b	ppb	3.5292	0.2	62690.4
Mg 279.078	296.352b	ppb	2.0504	0.7	835.470
Mn 257.610	15.9376b	ppb	0.0251	0.2	3306.74
Mo 202.032	1.3407b	ppb	0.3800	28.3	14.8598
Na 330.237	93796.9xb	ppb	291.085	0.3	4178.82
Ni 231.604	1.5892b	ppb	0.8425	53.0	-0.2018
Pb 220.353	9.5926b	ppb	1.3464	14.0	25.4024
Sb 206.834	5.3451b	ppb	0.9067	17.0	2.7934
Se 196.026	-0.0092b	ppb	3.3834	36687.3	-1.0703
Sn 189.925	-0.9637b	ppb	1.6404	170.2	-6.0501
Sr 216.596	24.8300b	ppb	0.2497	1.0	326.301
Ti 334.941	-0.0023b	ppb	0.0401	1746.7	-0.8058
Tl 190.794	-0.1120b	ppb	1.3932	1244.0	-9.5094
V 292.401	-0.1019b	ppb	0.1353	132.8	-12.7905
Zn 206.200	692.704b	ppb	0.4879	0.1	775.529

Cont Calib Verif (CCV) **11/20/2014, 11:00:35 PM** **Rack 2, Tube 49**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	502.228	508.964	503.867
Al 308.215	4914.54	4925.60	4901.69
As 188.980	488.511	502.361	498.483
B 249.678	497.145	500.370	499.101
Ba 389.178	5262.84	5259.52	5246.16
Be 313.042	528.781	528.966	526.767
Ca 370.602	4966	4969	4956
Cd 226.502	524.407	525.343	523.132
Co 228.615	528.262	530.626	528.798
Cr 267.716	5234.67	5245.18	5228.11
Cu 324.754	5326.54	5395.10	5383.39
Fe 271.441	4967.16	4974.95	4974.84
K 766.491	10379.6	10431.3	10374.7
Mg 279.078	4958.21	4968.17	4948.33
Mn 257.610	5346.79	5328.97	5338.98
Mo 202.032	496.025	496.741	494.620
Na 330.237	7581.34	7652.13	7374.98
Ni 231.604	2613.28	2611.66	2591.01
Pb 220.353	496.606	500.382	494.919
Sb 206.834	988.089	979.641	978.740
Se 196.026	4911.29	4908.62	4890.85
Sn 189.925	4920.35	4943.55	4913.64
Sr 216.596	2482.78	2482.76	2471.01
Ti 334.941	499.514	500.802	498.680
Tl 190.794	5026.29	5033.05	5013.08
V 292.401	4947.67	4963.56	4940.38
Zn 206.200	2632.44	2631.51	2610.88

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	505.019	ppb	3.5128	0.7	41417.2	101.00388
Al 308.215	4913.94	ppb	11.9641	0.2	34467.1	98.27888
As 188.980	496.451	ppb	7.1449	1.4	269.336	99.29028
B 249.678	498.872	ppb	1.6249	0.3	8351.02	99.77443
Ba 389.178	5256.17	ppb	8.8303	0.2	111311	105.12342
Be 313.042	528.171	ppb	1.2195	0.2	964622	105.63429
Ca 370.602	4963	ppb	6.894	0.1	13548	99.26911
Cd 226.502	524.294	ppb	1.1097	0.2	21867.4	104.85880
Co 228.615	529.229	ppb	1.2395	0.2	6110.33	105.84574
Cr 267.716	5235.99	ppb	8.6095	0.2	281994	104.71976
Cu 324.754	5368.34	ppb	36.6756	0.7	365446	107.36687
Fe 271.441	4972.32	ppb	4.4656	0.1	8327.23	99.44638
K 766.491	10395.2	ppb	31.3545	0.3	432777	103.95194
Mg 279.078	4958.23	ppb	9.9182	0.2	13470.2	99.16470
Mn 257.610	5338.24	ppb	8.9317	0.2	1079715	106.76488
Mo 202.032	495.795	ppb	1.0787	0.2	3365.41	99.15907
Na 330.237	7536.15	ppb	143.997	1.9	311.425	100.48199
Ni 231.604	2605.31	ppb	12.4156	0.5	7876.64	104.21253
Pb 220.353	497.302	ppb	2.7971	0.6	820.618	99.46043
Sb 206.834	982.157	ppb	5.1573	0.5	1392.98	98.21566
Se 196.026	4903.59	ppb	11.1152	0.2	2114.78	98.07175
Sn 189.925	4925.85	ppb	15.6949	0.3	3727.88	98.51694
Sr 216.596	2478.85	ppb	6.7894	0.3	31763.3	99.15392

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	499.665	ppb	1.0695	0.2	148373	99.93307
Tl 190.794	5024.14	ppb	10.1590	0.2	5302.58	100.48282
V 292.401	4950.54	ppb	11.8522	0.2	129289	99.01075
Zn 206.200	2624.94	ppb	12.1875	0.5	2923.64	104.99771

Cont Calib Blank (CCB) **11/20/2014, 11:04:52 PM** **Rack 2, Tube 50**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0610	0.4080	-0.0003u
Al 308.215	-1.7268u	-0.7628u	-1.0665u
As 188.980	2.0928	-3.5365u	-0.0063u
B 249.678	9.1626	7.9341	7.0797
Ba 389.178	0.6075	0.7958	0.8452
Be 313.042	0.0153	0.0094	0.0144
Ca 370.602	4.540	7.088	1.432
Cd 226.502	0.0815	0.0074	-0.0038u
Co 228.615	0.3228	0.5030	-0.2006u
Cr 267.716	0.1102	0.2139	0.1052
Cu 324.754	-0.4600u	-0.2669u	-0.2983u
Fe 271.441	4.9342	1.2650	-0.1990u
K 766.491	1.5874	0.6413	1.4900
Mg 279.078	-1.4138u	2.1635	-1.0857u
Mn 257.610	0.1508	0.1019	0.1668
Mo 202.032	0.4984	0.0580	0.2867
Na 330.237	-48.5405u	-0.9330u	-53.4291u
Ni 231.604	1.1954	0.0323	1.2641
Pb 220.353	1.0298	4.4999	2.5751
Sb 206.834	4.3573	2.2508	2.3664
Se 196.026	-2.3094u	-7.9192u	-5.6961u
Sn 189.925	2.5603	0.8519	1.4933
Sr 216.596	0.3460	0.2073	0.3356
Ti 334.941	0.0897	0.0970	0.1223
Tl 190.794	3.6199	2.4473	-0.9452u
V 292.401	0.2527	0.1119	-0.1729u
Zn 206.200	0.0680	0.1090	0.6547

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1562	ppb	0.2202	140.9	-10.1727	0.15624
Al 308.215	-1.1854	ppb	0.4929	41.6	429.034	-1.18537
As 188.980	-0.4833	ppb	2.8448	588.6	-7.4138	-0.48333
B 249.678	8.0588	ppb	1.0470	13.0	192.475	8.05876
Ba 389.178	0.7495	ppb	0.1254	16.7	-40.0720	0.74951
Be 313.042	0.0130	ppb	0.0032	24.5	-268.060	0.01303
Ca 370.602	4.354	ppb	2.833	65.1	17.36	4.35351
Cd 226.502	0.0284	ppb	0.0464	163.4	18.3842	0.02838
Co 228.615	0.2084	ppb	0.3655	175.4	0.5637	0.20841
Cr 267.716	0.1431	ppb	0.0614	42.9	42.5299	0.14307
Cu 324.754	-0.3417	ppb	0.1036	30.3	209.567	-0.34173
Fe 271.441	2.0001	ppb	2.6444	132.2	20.1566	2.00009
K 766.491	1.2396	ppb	0.5204	42.0	299.754	1.23957
Mg 279.078	-0.1120	ppb	1.9775	1765.7	25.1751	-0.11199
Mn 257.610	0.1398	ppb	0.0338	24.2	109.733	0.13984
Mo 202.032	0.2810	ppb	0.2203	78.4	7.6727	0.28103

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	-34.3009	ppb	29.0006	84.5	27.3932	-34.30086
Ni 231.604	0.8306	ppb	0.6922	83.3	-2.5010	0.83059
Pb 220.353	2.7016	ppb	1.7385	64.3	14.2163	2.70160
Sb 206.834	2.9915	ppb	1.1842	39.6	-0.4974	2.99148
Se 196.026	-5.3082	ppb	2.8249	53.2	-3.3599	-5.30822
Sn 189.925	1.6352	ppb	0.8630	52.8	-4.1095	1.63520
Sr 216.596	0.2963	ppb	0.0773	26.1	7.9289	0.29628
Ti 334.941	0.1030	ppb	0.0171	16.6	37.3163	0.10298
Tl 190.794	1.7073	ppb	2.3708	138.9	-7.5829	1.70734
V 292.401	0.0639	ppb	0.2168	339.4	-7.2108	0.06388
Zn 206.200	0.2773	ppb	0.3275	118.1	1.7545	0.27727

lb 680-359391/1-d (Samp) **11/20/2014, 11:09:08 PM** **Rack 2, Tube 51**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates	Concentration	
Ag 328.068	0.1260	-0.1094u	0.0367
Al 308.215	1.5982	1.7353	1.8868
As 188.980	-5.5319u	-7.8793u	-5.2802u
B 249.678	3.4693	2.8201	2.4493
Ba 389.178	0.3800	-0.0281u	0.6050
Be 313.042	0.0060	0.0055	0.0031u
Ca 370.602	7.693	7.135	10.75
Cd 226.502	-0.0025u	0.1975	0.1820
Co 228.615	-0.0731u	-0.3448u	0.1989
Cr 267.716	0.4114	0.2995	0.1981
Cu 324.754	-0.2258u	-0.2157u	-0.0424u
Fe 271.441	7.3274	4.3258	6.9548
K 766.491	15.1455	14.3373	14.4161
Mg 279.078	3.6566	-0.6110u	0.6809
Mn 257.610	0.1266	0.1315	0.0967
Mo 202.032	0.1577	-0.0311u	0.6464
Na 330.237	81184.7	80375.9	80643.0
Ni 231.604	0.4868	0.2072	0.7988
Pb 220.353	3.5090	0.9291	0.7944
Sb 206.834	-0.1170u	2.1987	4.4192
Se 196.026	-6.4143u	-9.5428u	-6.1891u
Sn 189.925	0.9569	2.3633	0.2294
Sr 216.596	0.0422	0.6645	0.0471
Ti 334.941	-0.1553u	-0.1300u	-0.1017u
Tl 190.794	1.4024	1.4147	0.3066
V 292.401	-0.1388u	-0.3884u	-0.2028u
Zn 206.200	1.3951	3.2155	3.4585

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0178	ppb	0.1188	669.2	-21.5467
Al 308.215	1.7401	ppb	0.1443	8.3	448.860
As 188.980	-6.2305	ppb	1.4335	23.0	-10.6162
B 249.678	2.9129	ppb	0.5163	17.7	106.959
Ba 389.178	0.3190	ppb	0.3209	100.6	-49.1859
Be 313.042	0.0049	ppb	0.0015	31.6	-291.638
Ca 370.602	8.526	ppb	1.945	22.8	28.30
Cd 226.502	0.1257	ppb	0.1112	88.5	21.9774
Co 228.615	-0.0730	ppb	0.2719	372.6	-2.6862

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.3030	ppb	0.1067	35.2	52.7007
Cu 324.754	-0.1613	ppb	0.1031	63.9	221.848
Fe 271.441	6.2027	ppb	1.6361	26.4	27.0593
K 766.491	14.6330	ppb	0.4456	3.0	857.033
Mg 279.078	1.2422	ppb	2.1885	176.2	28.8777
Mn 257.610	0.1183	ppb	0.0188	15.9	105.026
Mo 202.032	0.2577	ppb	0.3496	135.7	7.5143
Na 330.237	80734.6	ppb	412.092	0.5	3612.51
Ni 231.604	0.4976	ppb	0.2960	59.5	-3.5072
Pb 220.353	1.7442	ppb	1.5298	87.7	12.6651
Sb 206.834	2.1670	ppb	2.2683	104.7	-1.6189
Se 196.026	-7.3821	ppb	1.8746	25.4	-4.2542
Sn 189.925	1.1832	ppb	1.0848	91.7	-4.4269
Sr 216.596	0.2513	ppb	0.3579	142.4	7.3773
Ti 334.941	-0.1290	ppb	0.0268	20.8	-37.9867
Tl 190.794	1.0412	ppb	0.6363	61.1	-8.2880
V 292.401	-0.2433	ppb	0.1297	53.3	-15.8530
Zn 206.200	2.6897	ppb	1.1277	41.9	4.4498

680-107347-a-1-l (Samp) **11/20/2014, 11:13:25 PM** **Rack 2, Tube 52**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3993	-0.0906u	0.3575
Al 308.215	3.2578	2.3372	3.7484
As 188.980	4.2696	1.5406	-0.6632u
B 249.678	12.6139	13.3243	12.4259
Ba 389.178	4.5005	3.9554	3.6022
Be 313.042	0.0032	-0.0051u	-0.0050u
Ca 370.602	8154	8144	8150
Cd 226.502	0.1264	0.0824	0.1199
Co 228.615	-0.7468u	-0.3461u	-0.0105u
Cr 267.716	0.4829	0.4547	0.4795
Cu 324.754	0.7180	0.5934	0.5865
Fe 271.441	11.3984	7.7592	10.6436
K 766.491	570.428	567.779	573.183
Mg 279.078	1621.06	1617.50	1623.35
Mn 257.610	0.6554	0.6371	0.6652
Mo 202.032	1.8662	1.3108	1.9529
Na 330.237	10873.0	10581.7	10727.8
Ni 231.604	1.7811	0.0065	1.1761
Pb 220.353	1.7681	4.4027	1.0259
Sb 206.834	-0.4813u	3.2940	-1.6851u
Se 196.026	-3.4339u	-5.3203u	-6.7990u
Sn 189.925	-1.2576u	1.3772	-1.6289u
Sr 216.596	83.0097	82.7507	82.3908
Ti 334.941	-0.1278u	-0.0011	-0.0755u
Tl 190.794	0.5705	0.0073u	2.1391
V 292.401	-0.5531u	0.0878	-0.3872u
Zn 206.200	7.1299	7.9069	6.4547

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2220	ppb	0.2716	122.3	-7.5606
Al 308.215	3.1145	ppb	0.7164	23.0	458.214

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	1.7157	ppb	2.4711	144.0	-6.1888
B 249.678	12.7880	ppb	0.4738	3.7	271.030
Ba 389.178	4.0194	ppb	0.4526	11.3	32.3923
Be 313.042	-0.0023	ppb	0.0048	208.6	-294.674
Ca 370.602	8149	ppb	5.307	0.1	21707
Cd 226.502	0.1096	ppb	0.0237	21.7	21.7505
Co 228.615	-0.3678	ppb	0.3686	100.2	-6.1227
Cr 267.716	0.4724	ppb	0.0154	3.3	60.4804
Cu 324.754	0.6326	ppb	0.0740	11.7	275.922
Fe 271.441	9.9338	ppb	1.9207	19.3	33.1878
K 766.491	570.463	ppb	2.7020	0.5	23984.3
Mg 279.078	1620.64	ppb	2.9484	0.2	4456.84
Mn 257.610	0.6525	ppb	0.0143	2.2	225.067
Mo 202.032	1.7100	ppb	0.3484	20.4	17.3718
Na 330.237	10727.5	ppb	145.699	1.4	504.950
Ni 231.604	0.9879	ppb	0.9022	91.3	-2.0233
Pb 220.353	2.3989	ppb	1.7746	74.0	13.7245
Sb 206.834	0.3758	ppb	2.5978	691.2	-4.0822
Se 196.026	-5.1844	ppb	1.6867	32.5	-3.3063
Sn 189.925	-0.5031	ppb	1.6389	325.8	-5.7267
Sr 216.596	82.7171	ppb	0.3108	0.4	1069.67
Ti 334.941	-0.0681	ppb	0.0637	93.5	-11.4282
Tl 190.794	0.9057	ppb	1.1047	122.0	-8.4361
V 292.401	-0.2842	ppb	0.3327	117.1	-16.6677
Zn 206.200	7.1639	ppb	0.7267	10.1	9.4494

680-107347-a-1-m ms (Samp) **11/20/2014, 11:17:41 PM** **Rack 2, Tube 53**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	152.276	151.465	151.501
Al 308.215	1489.12	1490.92	1490.43
As 188.980	153.230	151.064	158.641
B 249.678	301.033	303.457	304.185
Ba 389.178	142.441	142.284	141.498
Be 313.042	160.441	160.111	160.254
Ca 370.602	21207	21281	21343
Cd 226.502	155.888	155.532	156.087
Co 228.615	158.960	159.108	159.064
Cr 267.716	166.750	166.378	165.994
Cu 324.754	165.860	163.858	164.034
Fe 271.441	15039.4	15001.8	15016.3
K 766.491	15511.1	15467.3	15452.1
Mg 279.078	15920.0	15902.7	15904.1
Mn 257.610	1662.63	1658.31	1655.53
Mo 202.032	152.988	152.338	151.828
Na 330.237	21873.3	21894.5	21630.1
Ni 231.604	157.318	157.092	160.445
Pb 220.353	151.897	152.299	149.410
Sb 206.834	150.550	147.935	152.450
Se 196.026	138.006	146.603	141.364
Sn 189.925	141.252	144.634	152.886
Sr 216.596	214.443	213.152	212.110
Ti 334.941	153.119	152.933	152.732

Label	Replicates Concentration		
Tl 190.794	29.7149	33.4373	30.9046
V 292.401	152.186	152.554	152.565
Zn 206.200	166.990	162.703	163.133

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	151.747	ppb	0.4578	0.3	12441.1
Al 308.215	1490.16	ppb	0.9304	0.1	10576.2
As 188.980	154.312	ppb	3.9029	2.5	78.7203
B 249.678	302.892	ppb	1.6505	0.5	5058.88
Ba 389.178	142.074	ppb	0.5052	0.4	2996.96
Be 313.042	160.269	ppb	0.1651	0.1	292432
Ca 370.602	21277	ppb	67.71	0.3	56622
Cd 226.502	155.836	ppb	0.2812	0.2	6561.38
Co 228.615	159.044	ppb	0.0760	0.0	1833.54
Cr 267.716	166.374	ppb	0.3776	0.2	9007.75
Cu 324.754	164.584	ppb	1.1088	0.7	11440.7
Fe 271.441	15019.1	ppb	18.9579	0.1	24811.7
K 766.491	15476.8	ppb	30.6472	0.2	644217
Mg 279.078	15909.0	ppb	9.6028	0.1	43490.9
Mn 257.610	1658.82	ppb	3.5777	0.2	335711
Mo 202.032	152.384	ppb	0.5815	0.4	1039.23
Na 330.237	21799.3	ppb	146.937	0.7	990.051
Ni 231.604	158.285	ppb	1.8740	1.2	474.759
Pb 220.353	151.202	ppb	1.5647	1.0	256.070
Sb 206.834	150.311	ppb	2.2668	1.5	200.317
Se 196.026	141.991	ppb	4.3327	3.1	60.6482
Sn 189.925	146.257	ppb	5.9842	4.1	105.505
Sr 216.596	213.235	ppb	1.1691	0.5	2765.61
Ti 334.941	152.928	ppb	0.1936	0.1	45441.8
Tl 190.794	31.3522	ppb	1.9011	6.1	22.4088
V 292.401	152.435	ppb	0.2154	0.1	3941.10
Zn 206.200	164.275	ppb	2.3607	1.4	184.125

680-107347-a-1-n msd (Samp) **11/20/2014, 11:21:58 PM** **Rack 2, Tube 54**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	147.738	147.226	146.436
Al 308.215	1440.38	1438.59	1439.00
As 188.980	147.912	146.746	151.289
B 249.678	294.794	296.738	296.836
Ba 389.178	137.671	137.062	136.755
Be 313.042	154.451	154.509	154.650
Ca 370.602	20704	20645	20713
Cd 226.502	150.660	150.847	150.520
Co 228.615	154.735	153.760	153.730
Cr 267.716	154.811	154.444	154.911
Cu 324.754	158.328	158.938	158.939
Fe 271.441	14497.8	14506.6	14516.0
K 766.491	15004.5	15082.2	15091.6
Mg 279.078	15370.1	15379.2	15381.1
Mn 257.610	1602.82	1601.69	1600.22
Mo 202.032	148.425	146.189	147.761
Na 330.237	20805.8	20697.1	20967.4

Label	Replicates Concentration		
Ni 231.604	153.099	151.841	151.223
Pb 220.353	145.354	143.610	142.518
Sb 206.834	147.827	145.885	151.513
Se 196.026	140.812	144.251	140.807
Sn 189.925	137.674	141.785	140.926
Sr 216.596	205.706	205.157	204.713
Ti 334.941	148.137	148.207	148.219
Tl 190.794	27.4226	30.4238	26.1105
V 292.401	147.627	148.083	148.060
Zn 206.200	155.079	155.636	155.238

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	147.133	ppb	0.6559	0.4	12062.1
Al 308.215	1439.33	ppb	0.9406	0.1	10230.4
As 188.980	148.649	ppb	2.3595	1.6	75.5693
B 249.678	296.123	ppb	1.1518	0.4	4947.57
Ba 389.178	137.163	ppb	0.4661	0.3	2891.44
Be 313.042	154.537	ppb	0.1024	0.1	281962
Ca 370.602	20687	ppb	36.89	0.2	55054
Cd 226.502	150.676	ppb	0.1640	0.1	6344.59
Co 228.615	154.075	ppb	0.5718	0.4	1776.19
Cr 267.716	154.722	ppb	0.2456	0.2	8379.78
Cu 324.754	158.735	ppb	0.3526	0.2	11042.5
Fe 271.441	14506.8	ppb	9.1282	0.1	23965.9
K 766.491	15059.5	ppb	47.7961	0.3	626849
Mg 279.078	15376.8	ppb	5.8767	0.0	42036.9
Mn 257.610	1601.58	ppb	1.3006	0.1	324128
Mo 202.032	147.458	ppb	1.1481	0.8	1005.82
Na 330.237	20823.4	ppb	136.039	0.7	947.022
Ni 231.604	152.054	ppb	0.9562	0.6	455.876
Pb 220.353	143.827	ppb	1.4302	1.0	244.071
Sb 206.834	148.408	ppb	2.8587	1.9	197.644
Se 196.026	141.957	ppb	1.9870	1.4	60.6174
Sn 189.925	140.128	ppb	2.1684	1.5	100.859
Sr 216.596	205.192	ppb	0.4974	0.2	2661.56
Ti 334.941	148.188	ppb	0.0443	0.0	44033.3
Tl 190.794	27.9856	ppb	2.2111	7.9	18.9048
V 292.401	147.923	ppb	0.2567	0.2	3824.70
Zn 206.200	155.318	ppb	0.2872	0.2	174.160

lb 680-359075/1-d (Samp) **11/20/2014, 11:26:14 PM** **Rack 2, Tube 55**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0994	-0.0039u	-0.0640u
Al 308.215	7.7507	7.7076	7.7060
As 188.980	2.3184	-1.2442u	-2.6937u
B 249.678	52.0321	52.2025	50.8494
Ba 389.178	2.6538	1.8576	2.1854
Be 313.042	0.0090	0.0029u	0.0025u
Ca 370.602	482.6	479.9	481.7
Cd 226.502	0.2157	0.1399	0.0203
Co 228.615	-0.1646u	0.0394	0.5096
Cr 267.716	33.2403	33.5409	32.9526

Label	Replicates Concentration		
Cu 324.754	1.4074	1.3490	1.7478
Fe 271.441	207.830	214.532	214.563
K 766.491	103.439	103.899	102.269
Mg 279.078	86.8416	92.6554	89.3882
Mn 257.610	2.6291	2.6744	2.6228
Mo 202.032	0.3887	0.5041	0.1145
Na 330.237	89028.7	89815.8	88711.0
Ni 231.604	1.3479	0.3866	0.1401
Pb 220.353	21.4484	21.8818	19.6098
Sb 206.834	0.7232	3.4403	-0.8705u
Se 196.026	0.4580	-2.0565u	1.8002
Sn 189.925	3.0106	0.5875	-5.0494u
Sr 216.596	1.5477	1.3174	1.8682
Ti 334.941	0.1607	0.1064	0.1197
Tl 190.794	-1.0537u	-1.1258u	0.4978
V 292.401	-0.2057u	0.2542	-0.0533u
Zn 206.200	171.863	171.735	171.296

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0105b	ppb	0.0826	787.9	-22.2141
Al 308.215	7.7214b	ppb	0.0254	0.3	489.495
As 188.980	-0.5399b	ppb	2.5792	477.8	-7.4465
B 249.678	51.6947b	ppb	0.7370	1.4	917.046
Ba 389.178	2.2323b	ppb	0.4002	17.9	-8.3309
Be 313.042	0.0048b	ppb	0.0036	75.8	-292.582
Ca 370.602	481.4b	ppb	1.376	0.3	1286
Cd 226.502	0.1253b	ppb	0.0985	78.6	22.6689
Co 228.615	0.1281b	ppb	0.3458	269.9	-0.2711
Cr 267.716	33.2446b	ppb	0.2942	0.9	1827.07
Cu 324.754	1.5014b	ppb	0.2154	14.3	335.066
Fe 271.441	212.309b	ppb	3.8782	1.8	367.114
K 766.491	103.202b	ppb	0.8405	0.8	4542.27
Mg 279.078	89.6284b	ppb	2.9143	3.3	270.501
Mn 257.610	2.6421b	ppb	0.0281	1.1	616.609
Mo 202.032	0.3358b	ppb	0.2001	59.6	8.0345
Na 330.237	89185.2b	ppb	568.789	0.6	3984.31
Ni 231.604	0.6249b	ppb	0.6382	102.1	-3.1051
Pb 220.353	20.9800b	ppb	1.2062	5.7	43.8889
Sb 206.834	1.0976b	ppb	2.1797	198.6	-2.6654
Se 196.026	0.0672b	ppb	1.9578	2912.3	-1.0394
Sn 189.925	-0.4838b	ppb	4.1354	854.8	-5.6877
Sr 216.596	1.5778b	ppb	0.2766	17.5	24.8902
Ti 334.941	0.1289b	ppb	0.0283	22.0	38.1269
Tl 190.794	-0.5606b	ppb	0.9173	163.6	-10.0083
V 292.401	-0.0016b	ppb	0.2343	14513.4	-11.1144
Zn 206.200	171.632b	ppb	0.2975	0.2	193.167

680-107294-d-1-k (Samp) **11/20/2014, 11:30:30 PM** **Rack 2, Tube 56**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1984u	0.5698	-0.1323u
Al 308.215	12.6196	12.0604	11.2668
As 188.980	-2.5724u	-9.3597u	-1.3449u

Label	Replicates Concentration		
B 249.678	41.5816	40.2728	41.7258
Ba 389.178	3.1735	2.6964	2.9025
Be 313.042	-0.0030u	-0.0076u	-0.0067u
Ca 370.602	10457	10430	10396
Cd 226.502	0.0177	0.0990	-0.0351u
Co 228.615	-0.5005u	-0.4903u	0.3060
Cr 267.716	1.3547	1.2946	1.0900
Cu 324.754	0.0085	-0.2789u	-0.1655u
Fe 271.441	20.7873	16.1187	16.9184
K 766.491	144.899	144.606	145.170
Mg 279.078	3580.66	3579.83	3581.94
Mn 257.610	15.5033	15.5825	15.5484
Mo 202.032	1.3422	0.7386	1.0470
Na 330.237	2548.55	2610.43	2549.24
Ni 231.604	-0.2637u	1.0909	0.1751
Pb 220.353	2.0082	3.7142	2.4863
Sb 206.834	-1.0814u	-0.3154u	0.2891
Se 196.026	-4.4068u	-4.1376u	-6.8809u
Sn 189.925	-0.7876u	-4.1028u	-3.7380u
Sr 216.596	83.7454	84.1035	83.1781
Ti 334.941	0.1986	0.1689	0.2592
Tl 190.794	-0.6128u	0.4991	-2.8125u
V 292.401	-0.3470u	-0.3430u	-0.2370u
Zn 206.200	10.6897	11.2743	13.6431

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0797	ppb	0.4257	534.1	-19.2470
Al 308.215	11.9822	ppb	0.6797	5.7	518.404
As 188.980	-4.4257	ppb	4.3169	97.5	-9.6107
B 249.678	41.1934	ppb	0.8005	1.9	742.977
Ba 389.178	2.9241	ppb	0.2393	8.2	13.0612
Be 313.042	-0.0058	ppb	0.0025	42.6	-299.288
Ca 370.602	10427	ppb	30.61	0.3	27773
Cd 226.502	0.0272	ppb	0.0676	248.5	18.4347
Co 228.615	-0.2283	ppb	0.4627	202.7	-4.4847
Cr 267.716	1.2464	ppb	0.1387	11.1	102.087
Cu 324.754	-0.1453	ppb	0.1448	99.6	222.969
Fe 271.441	17.9415	ppb	2.4968	13.9	46.4076
K 766.491	144.892	ppb	0.2823	0.2	6276.90
Mg 279.078	3580.81	ppb	1.0624	0.0	9816.28
Mn 257.610	15.5447	ppb	0.0397	0.3	3250.93
Mo 202.032	1.0426	ppb	0.3018	28.9	12.8414
Na 330.237	2569.41	ppb	35.5276	1.4	142.745
Ni 231.604	0.3341	ppb	0.6911	206.8	-4.0005
Pb 220.353	2.7363	ppb	0.8800	32.2	14.2766
Sb 206.834	-0.3692	ppb	0.6869	186.0	-5.0778
Se 196.026	-5.1418	ppb	1.5122	29.4	-3.2847
Sn 189.925	-2.8761	ppb	1.8179	63.2	-7.5278
Sr 216.596	83.6757	ppb	0.4667	0.6	1082.94
Ti 334.941	0.2089	ppb	0.0461	22.1	75.0088
Tl 190.794	-0.9754	ppb	1.6853	172.8	-10.4130
V 292.401	-0.3090	ppb	0.0624	20.2	-17.1467
Zn 206.200	11.8690	ppb	1.5639	13.2	14.7054

680-107294-d-1-l ms (Samp) **11/20/2014, 11:34:47 PM** **Rack 2, Tube 57**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	105.143	105.954	105.879
Al 308.215	1520.29	1514.72	1520.91
As 188.980	161.734	152.126	154.718
B 249.678	328.397	328.426	329.527
Ba 389.178	143.518	143.477	144.567
Be 313.042	163.683	163.233	163.110
Ca 370.602	23247	23195	23122
Cd 226.502	157.848	157.685	158.437
Co 228.615	162.152	160.596	160.819
Cr 267.716	162.716	162.596	162.578
Cu 324.754	165.314	165.073	165.003
Fe 271.441	15265.6	15245.4	15239.9
K 766.491	15355.6	15304.4	15325.8
Mg 279.078	17665.7	17619.7	17648.6
Mn 257.610	1694.79	1691.92	1697.74
Mo 202.032	155.695	153.948	154.611
Na 330.237	15259.3	15217.1	15486.6
Ni 231.604	156.299	157.963	159.241
Pb 220.353	152.305	151.965	151.924
Sb 206.834	153.113	153.351	152.384
Se 196.026	148.533	139.051	144.001
Sn 189.925	152.279	148.093	150.434
Sr 216.596	214.483	213.332	213.598
Ti 334.941	155.972	155.752	155.744
Tl 190.794	30.5102	30.2663	30.4614
V 292.401	155.776	155.191	155.064
Zn 206.200	162.839	162.837	164.811

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	105.659	ppb	0.4484	0.4	8655.24
Al 308.215	1518.64	ppb	3.4113	0.2	10770.0
As 188.980	156.193	ppb	4.9713	3.2	79.7665
B 249.678	328.783	ppb	0.6443	0.2	5488.59
Ba 389.178	143.854	ppb	0.6176	0.4	3038.26
Be 313.042	163.342	ppb	0.3020	0.2	298046
Ca 370.602	23188	ppb	62.95	0.3	61710
Cd 226.502	157.990	ppb	0.3956	0.3	6651.98
Co 228.615	161.189	ppb	0.8412	0.5	1858.29
Cr 267.716	162.630	ppb	0.0752	0.0	8806.26
Cu 324.754	165.130	ppb	0.1635	0.1	11478.0
Fe 271.441	15250.3	ppb	13.5447	0.1	25193.2
K 766.491	15328.6	ppb	25.7072	0.2	638049
Mg 279.078	17644.7	ppb	23.2542	0.1	48236.1
Mn 257.610	1694.82	ppb	2.9121	0.2	343004
Mo 202.032	154.751	ppb	0.8818	0.6	1055.28
Na 330.237	15321.0	ppb	144.973	0.9	702.450
Ni 231.604	157.834	ppb	1.4751	0.9	473.409
Pb 220.353	152.065	ppb	0.2089	0.1	257.483
Sb 206.834	152.949	ppb	0.5041	0.3	203.834
Se 196.026	143.861	ppb	4.7424	3.3	61.4654
Sn 189.925	150.269	ppb	2.0979	1.4	108.543
Sr 216.596	213.804	ppb	0.6025	0.3	2774.00

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	155.823	ppb	0.1294	0.1	46304.9
Tl 190.794	30.4126	ppb	0.1291	0.4	21.4051
V 292.401	155.344	ppb	0.3801	0.2	4016.99
Zn 206.200	163.496	ppb	1.1392	0.7	183.254

680-107294-d-1-m msd (Samp) **11/20/2014, 11:39:03 PM** **Rack 2, Tube 58**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	98.0500	100.274	99.7796
Al 308.215	1564.11	1568.08	1569.23
As 188.980	160.659	160.921	166.572
B 249.678	341.898	342.116	343.278
Ba 389.178	147.667	147.111	147.121
Be 313.042	167.829	167.725	167.985
Ca 370.602	23832	23823	23839
Cd 226.502	163.213	162.715	162.332
Co 228.615	166.787	165.314	165.626
Cr 267.716	167.345	167.170	167.090
Cu 324.754	169.018	170.576	171.265
Fe 271.441	15686.9	15694.2	15689.8
K 766.491	15717.2	15716.0	15755.6
Mg 279.078	18164.1	18176.4	18145.2
Mn 257.610	1745.49	1744.97	1745.74
Mo 202.032	159.552	160.701	159.110
Na 330.237	15732.8	15721.7	15505.3
Ni 231.604	162.739	163.162	163.911
Pb 220.353	157.138	157.072	151.900
Sb 206.834	160.458	164.743	159.149
Se 196.026	154.040	153.651	147.332
Sn 189.925	149.040	156.262	155.169
Sr 216.596	219.313	219.129	219.748
Ti 334.941	160.168	160.058	160.233
Tl 190.794	33.2433	34.8450	31.0007
V 292.401	159.820	160.137	159.055
Zn 206.200	168.879	170.200	169.290

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	99.3679	ppb	1.1678	1.2	8138.47
Al 308.215	1567.14	ppb	2.6849	0.2	11099.9
As 188.980	162.717	ppb	3.3410	2.1	83.3986
B 249.678	342.431	ppb	0.7417	0.2	5714.48
Ba 389.178	147.300	ppb	0.3183	0.2	3112.61
Be 313.042	167.846	ppb	0.1312	0.1	306273
Ca 370.602	23831	ppb	7.888	0.0	63423
Cd 226.502	162.753	ppb	0.4420	0.3	6851.94
Co 228.615	165.909	ppb	0.7763	0.5	1912.75
Cr 267.716	167.201	ppb	0.1304	0.1	9052.80
Cu 324.754	170.286	ppb	1.1515	0.7	11829.2
Fe 271.441	15690.3	ppb	3.6782	0.0	25919.7
K 766.491	15729.6	ppb	22.4999	0.1	654734
Mg 279.078	18161.9	ppb	15.6961	0.1	49649.4
Mn 257.610	1745.40	ppb	0.3951	0.0	353238
Mo 202.032	159.788	ppb	0.8216	0.5	1089.44

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	15653.3	ppb	128.305	0.8	716.992
Ni 231.604	163.271	ppb	0.5932	0.4	489.882
Pb 220.353	155.370	ppb	3.0050	1.9	262.873
Sb 206.834	161.450	ppb	2.9259	1.8	215.411
Se 196.026	151.674	ppb	3.7657	2.5	64.8489
Sn 189.925	153.490	ppb	3.8925	2.5	110.984
Sr 216.596	219.397	ppb	0.3179	0.1	2846.47
Ti 334.941	160.153	ppb	0.0886	0.1	47591.6
Tl 190.794	33.0297	ppb	1.9310	5.8	24.1280
V 292.401	159.670	ppb	0.5562	0.3	4129.02
Zn 206.200	169.456	ppb	0.6762	0.4	189.890

lb 680-359385/1-b (Samp) **11/20/2014, 11:43:21 PM** **Rack 2, Tube 59**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1344	0.1036	0.0625
Al 308.215	0.4393	1.4495	2.7475
As 188.980	-6.4890u	-5.6290u	-1.2986u
B 249.678	7.0259	6.0596	5.2757
Ba 389.178	-0.7533u	-0.2346u	0.1812
Be 313.042	0.0074	0.0060	0.0077
Ca 370.602	20.34	20.35	18.63
Cd 226.502	0.0351	0.2086	0.2149
Co 228.615	0.1350	-0.1934u	-0.2405u
Cr 267.716	0.2388	0.2829	0.3947
Cu 324.754	-0.2563u	-0.3961u	-0.3332u
Fe 271.441	1.7577	3.0177	4.8725
K 766.491	15.9288	16.2934	15.1921
Mg 279.078	3.1512	3.5509	0.6217
Mn 257.610	0.1671	0.1389	0.1247
Mo 202.032	0.0093	0.6365	0.2874
Na 330.237	80562.7	81367.5	81133.4
Ni 231.604	-0.1966u	-0.4000u	0.4332
Pb 220.353	-0.2312u	3.5286	2.5173
Sb 206.834	3.4731	2.8477	1.0992
Se 196.026	-3.7289u	4.1784	-0.8051u
Sn 189.925	-4.1815u	-1.7886u	1.0025
Sr 216.596	0.2593	0.3108	-0.3272u
Ti 334.941	-0.0567u	-0.1334u	-0.1088u
Tl 190.794	-0.4006u	-0.5806u	1.5040
V 292.401	-0.1712u	-0.5897u	-0.0492u
Zn 206.200	3.5506	4.0873	5.2537

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1002	ppb	0.0361	36.0	-14.7693
Al 308.215	1.5454	ppb	1.1571	74.9	447.538
As 188.980	-4.4722	ppb	2.7818	62.2	-9.6364
B 249.678	6.1204	ppb	0.8767	14.3	160.291
Ba 389.178	-0.2689	ppb	0.4682	174.1	-61.6438
Be 313.042	0.0070	ppb	0.0009	12.8	-287.747
Ca 370.602	19.77	ppb	0.9906	5.0	58.32
Cd 226.502	0.1529	ppb	0.1020	66.7	23.0855
Co 228.615	-0.0997	ppb	0.2046	205.3	-2.9913

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.3055	ppb	0.0804	26.3	52.8288
Cu 324.754	-0.3286	ppb	0.0700	21.3	210.466
Fe 271.441	3.2159	ppb	1.5668	48.7	22.1228
K 766.491	15.8048	ppb	0.5610	3.5	905.790
Mg 279.078	2.4413	ppb	1.5884	65.1	32.1566
Mn 257.610	0.1436	ppb	0.0216	15.0	110.124
Mo 202.032	0.3111	ppb	0.3143	101.0	7.8768
Na 330.237	81021.2	ppb	413.973	0.5	3625.22
Ni 231.604	-0.0544	ppb	0.4344	798.0	-5.1778
Pb 220.353	1.9382	ppb	1.9456	100.4	12.9792
Sb 206.834	2.4733	ppb	1.2305	49.7	-1.2019
Se 196.026	-0.1185	ppb	3.9981	3372.8	-1.1219
Sn 189.925	-1.6559	ppb	2.5945	156.7	-6.5786
Sr 216.596	0.0810	ppb	0.3544	437.7	5.2048
Ti 334.941	-0.0996	ppb	0.0392	39.3	-29.2590
Tl 190.794	0.1743	ppb	1.1551	662.8	-9.2021
V 292.401	-0.2700	ppb	0.2835	105.0	-16.5437
Zn 206.200	4.2972	ppb	0.8707	20.3	6.2464

680-107347-b-2-f (Samp) **11/20/2014, 11:47:38 PM** **Rack 2, Tube 60**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1767u	0.1457	0.0052u
Al 308.215	2.6926	2.8213	2.5272
As 188.980	-2.7422u	6.1253	-2.3031u
B 249.678	8.1582	8.3480	7.9917
Ba 389.178	45.1689	44.7931	45.4300
Be 313.042	-0.0205u	-0.0138u	-0.0123u
Ca 370.602	47748	47944	47908
Cd 226.502	0.1000	0.1758	0.1467
Co 228.615	-0.0661u	0.1194	0.2222
Cr 267.716	0.2114	0.3183	0.4412
Cu 324.754	-0.2839u	-0.1669u	-0.1824u
Fe 271.441	2.6798	6.2933	4.3295
K 766.491	135.536	135.444	135.534
Mg 279.078	403.941	401.177	400.381
Mn 257.610	93.3765	93.2076	92.9717
Mo 202.032	-0.1957u	-0.0798u	0.0339
Na 330.237	82326.8	82021.8	82203.4
Ni 231.604	2.5788	2.1664	2.8068
Pb 220.353	2.1820	1.5331	4.1895
Sb 206.834	-0.0962u	-1.0095u	1.7167
Se 196.026	-4.3189u	-4.0965u	4.0505
Sn 189.925	-0.4520u	0.6567	2.4433
Sr 216.596	58.0209	57.9498	58.0279
Ti 334.941	0.0179u	0.0156u	-0.0328u
Tl 190.794	1.3981	-1.2582u	0.5093
V 292.401	-0.7345u	-0.7393u	-0.7108u
Zn 206.200	47.1040	48.5821	51.6367

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0086	ppb	0.1617	1874.3	-25.3137
Al 308.215	2.6804	ppb	0.1474	5.5	455.213

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	0.3600	ppb	4.9977	1388.3	-6.9437
B 249.678	8.1660	ppb	0.1782	2.2	194.232
Ba 389.178	45.1307	ppb	0.3202	0.7	900.832
Be 313.042	-0.0155	ppb	0.0044	28.2	-312.316
Ca 370.602	47867	ppb	104.2	0.2	127472
Cd 226.502	0.1408	ppb	0.0382	27.2	22.5807
Co 228.615	0.0918	ppb	0.1461	159.1	-0.7694
Cr 267.716	0.3236	ppb	0.1150	35.5	54.2845
Cu 324.754	-0.2111	ppb	0.0635	30.1	218.445
Fe 271.441	4.4342	ppb	1.8090	40.8	24.1544
K 766.491	135.504	ppb	0.0526	0.0	5886.31
Mg 279.078	401.833	ppb	1.8685	0.5	1122.29
Mn 257.610	93.1853	ppb	0.2033	0.2	18929.9
Mo 202.032	-0.0805	ppb	0.1148	142.6	5.2191
Na 330.237	82184.0	ppb	153.437	0.2	3675.94
Ni 231.604	2.5173	ppb	0.3246	12.9	2.6028
Pb 220.353	2.6349	ppb	1.3849	52.6	14.1288
Sb 206.834	0.2037	ppb	1.3876	681.3	-4.2868
Se 196.026	-1.4550	ppb	4.7692	327.8	-1.6782
Sn 189.925	0.8827	ppb	1.4608	165.5	-4.6542
Sr 216.596	57.9995	ppb	0.0432	0.1	768.454
Ti 334.941	0.0002	ppb	0.0286	11774.7	1.0016
Tl 190.794	0.2164	ppb	1.3522	624.8	-9.1100
V 292.401	-0.7282	ppb	0.0153	2.1	-28.4582
Zn 206.200	49.1076	ppb	2.3116	4.7	56.3225

Cont Calib Verif (CCV) **11/20/2014, 11:51:55 PM** **Rack 3, Tube 1**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	505.542	504.341	502.641
Al 308.215	4904.52	4893.45	4881.91
As 188.980	490.299	484.554	489.638
B 249.678	492.275	492.502	493.421
Ba 389.178	5255.12	5252.40	5238.99
Be 313.042	527.694	527.909	526.709
Ca 370.602	4966	4952	4940
Cd 226.502	524.496	522.648	520.639
Co 228.615	530.044	529.444	527.965
Cr 267.716	5245.18	5231.04	5216.73
Cu 324.754	5350.96	5301.99	5386.68
Fe 271.441	4985.15	4956.78	4962.09
K 766.491	10328.1	10332.9	10288.5
Mg 279.078	4960.69	4948.55	4941.30
Mn 257.610	5347.16	5308.15	5313.42
Mo 202.032	497.974	495.462	497.032
Na 330.237	7617.94	7551.02	7473.56
Ni 231.604	2606.35	2593.44	2593.84
Pb 220.353	495.303	491.720	496.131
Sb 206.834	973.164	975.776	976.598
Se 196.026	4872.08	4875.44	4835.06
Sn 189.925	4981.78	4944.10	4943.40
Sr 216.596	2505.79	2477.72	2468.56
Ti 334.941	499.739	498.781	498.435

Label	Replicates Concentration		
Tl 190.794	5042.01	4996.38	5008.09
V 292.401	4951.72	4933.08	4936.86
Zn 206.200	2631.82	2613.46	2620.52

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	504.174	ppb	1.4574	0.3	41347.6	100.83490
Al 308.215	4893.29	ppb	11.3087	0.2	34325.6	97.86590
As 188.980	488.163	ppb	3.1434	0.6	264.718	97.63267
B 249.678	492.732	ppb	0.6066	0.1	8248.89	98.54649
Ba 389.178	5248.84	ppb	8.6354	0.2	111155	104.97680
Be 313.042	527.437	ppb	0.6402	0.1	963281	105.48749
Ca 370.602	4953	ppb	12.91	0.3	13518	99.05545
Cd 226.502	522.594	ppb	1.9291	0.4	21796.6	104.51886
Co 228.615	529.151	ppb	1.0697	0.2	6109.38	105.83018
Cr 267.716	5230.98	ppb	14.2245	0.3	281725	104.61964
Cu 324.754	5346.54	ppb	42.5179	0.8	363963	106.93083
Fe 271.441	4968.01	ppb	15.0859	0.3	8320.05	99.36013
K 766.491	10316.5	ppb	24.3845	0.2	429503	103.16508
Mg 279.078	4950.18	ppb	9.7982	0.2	13448.5	99.00362
Mn 257.610	5322.91	ppb	21.1659	0.4	1076614	106.45821
Mo 202.032	496.823	ppb	1.2689	0.3	3372.40	99.36458
Na 330.237	7547.51	ppb	72.2543	1.0	311.971	100.63342
Ni 231.604	2597.88	ppb	7.3422	0.3	7854.14	103.91514
Pb 220.353	494.385	ppb	2.3443	0.5	815.884	98.87696
Sb 206.834	975.180	ppb	1.7930	0.2	1383.44	97.51796
Se 196.026	4860.86	ppb	22.4087	0.5	2096.35	97.21717
Sn 189.925	4956.43	ppb	21.9552	0.4	3751.05	99.12855
Sr 216.596	2484.02	ppb	19.3995	0.8	31830.0	99.36088
Ti 334.941	498.985	ppb	0.6755	0.1	148171	99.79701
Tl 190.794	5015.50	ppb	23.6958	0.5	5293.43	100.30991
V 292.401	4940.55	ppb	9.8572	0.2	129028	98.81104
Zn 206.200	2621.93	ppb	9.2605	0.4	2920.29	104.87730

Cont Calib Blank (CCB) **11/20/2014, 11:56:13 PM** **Rack 3, Tube 2**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2750u	0.0463	0.0006
Al 308.215	-1.3696u	-2.2257u	-2.4006u
As 188.980	3.3677	-0.8553u	-1.3440u
B 249.678	7.7695	6.8068	5.8304
Ba 389.178	1.0037	0.7895	0.9181
Be 313.042	0.0128	0.0278	0.0235
Ca 370.602	2.975	-0.8398u	1.629
Cd 226.502	0.2147	0.0657	0.0406
Co 228.615	-0.1600u	-0.0382u	0.2032
Cr 267.716	0.2053	0.2985	0.2545
Cu 324.754	-0.2760u	-0.1761u	-0.4203u
Fe 271.441	2.8684	1.0888	0.6113
K 766.491	0.9409	2.2372	1.5109
Mg 279.078	-1.6267u	-2.1648u	1.2324
Mn 257.610	0.2285	0.2384	0.3254
Mo 202.032	0.5726	0.5290	0.8133
Na 330.237	70.6710	-20.3776u	-81.4417u

Label	Replicates Concentration		
Ni 231.604	0.0387	1.1061	0.1632
Pb 220.353	-0.9715u	2.2332	0.2786
Sb 206.834	4.8447	6.2038	3.3163
Se 196.026	1.0836	-6.4785u	-9.8345u
Sn 189.925	-0.3230u	3.1566	1.6512
Sr 216.596	0.5918	0.8269	0.6963
Ti 334.941	0.1100	0.0944	0.0905
Tl 190.794	5.2027	1.9062	4.5900
V 292.401	0.0162	-0.1748u	0.4694
Zn 206.200	0.4946	0.5822	-0.2192u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0760	ppb	0.1738	228.5	-29.2672	-0.07605
Al 308.215	-1.9986	ppb	0.5517	27.6	423.516	-1.99864
As 188.980	0.3894	ppb	2.5908	665.3	-6.9275	0.38944
B 249.678	6.8023	ppb	0.9696	14.3	171.636	6.80225
Ba 389.178	0.9038	ppb	0.1078	11.9	-36.8054	0.90378
Be 313.042	0.0214	ppb	0.0077	36.2	-252.893	0.02136
Ca 370.602	1.255	ppb	1.935	154.2	9.122	1.25485
Cd 226.502	0.1070	ppb	0.0941	88.0	21.6528	0.10699
Co 228.615	0.0017	ppb	0.1849	11013.7	-1.8302	0.00168
Cr 267.716	0.2528	ppb	0.0466	18.4	48.4384	0.25277
Cu 324.754	-0.2908	ppb	0.1228	42.2	213.045	-0.29079
Fe 271.441	1.5229	ppb	1.1895	78.1	19.3568	1.52285
K 766.491	1.5630	ppb	0.6497	41.6	313.212	1.56300
Mg 279.078	-0.8530	ppb	1.8260	214.1	23.1476	-0.85305
Mn 257.610	0.2641	ppb	0.0533	20.2	134.852	0.26409
Mo 202.032	0.6383	ppb	0.1531	24.0	10.0977	0.63829
Na 330.237	-10.3827	ppb	76.5473	737.3	28.4670	-10.38275
Ni 231.604	0.4360	ppb	0.5836	133.9	-3.6945	0.43604
Pb 220.353	0.5134	ppb	1.6152	314.6	10.6688	0.51343
Sb 206.834	4.7883	ppb	1.4446	30.2	1.9476	4.78826
Se 196.026	-5.0765	ppb	5.5925	110.2	-3.2600	-5.07646
Sn 189.925	1.4949	ppb	1.7451	116.7	-4.2157	1.49493
Sr 216.596	0.7050	ppb	0.1178	16.7	13.1865	0.70500
Ti 334.941	0.0983	ppb	0.0103	10.5	35.9090	0.09827
Tl 190.794	3.8996	ppb	1.7534	45.0	-5.2703	3.89963
V 292.401	0.1036	ppb	0.3308	319.4	-6.2383	0.10359
Zn 206.200	0.2859	ppb	0.4396	153.8	1.7640	0.28589

680-107347-b-2-g ms (Samp) **11/21/2014, 12:00:30 AM** **Rack 3, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	147.121	148.182	147.902
Al 308.215	1516.56	1524.49	1514.98
As 188.980	161.815	158.268	161.902
B 249.678	300.840	304.053	303.135
Ba 389.178	173.940	173.978	174.725
Be 313.042	160.497	160.893	160.779
Ca 370.602	53529	53487	53492
Cd 226.502	155.669	155.637	155.088
Co 228.615	158.312	158.601	159.220
Cr 267.716	159.525	159.713	158.721

Label	Replicates Concentration		
Cu 324.754	162.581	164.473	163.651
Fe 271.441	14906.2	14922.8	14952.2
K 766.491	16340.0	16449.7	16427.9
Mg 279.078	14949.8	14962.4	14927.2
Mn 257.610	1719.45	1725.16	1721.17
Mo 202.032	151.966	151.667	150.915
Na 330.237	79434.6	80476.7	79862.3
Ni 231.604	156.487	158.275	156.594
Pb 220.353	150.650	152.939	151.163
Sb 206.834	155.127	153.539	152.681
Se 196.026	150.255	142.217	149.558
Sn 189.925	146.119	145.475	147.334
Sr 216.596	193.841	194.663	193.756
Ti 334.941	152.834	153.205	153.134
Tl 190.794	30.5620	26.1446	31.2887
V 292.401	152.156	152.769	152.153
Zn 206.200	196.277	191.914	196.279

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	147.735	ppb	0.5500	0.4	12112.4
Al 308.215	1518.68	ppb	5.0956	0.3	10769.8
As 188.980	160.662	ppb	2.0736	1.3	82.2592
B 249.678	302.676	ppb	1.6551	0.5	5055.58
Ba 389.178	174.214	ppb	0.4427	0.3	3675.79
Be 313.042	160.723	ppb	0.2039	0.1	293266
Ca 370.602	53503	ppb	22.71	0.0	142439
Cd 226.502	155.465	ppb	0.3266	0.2	6545.20
Co 228.615	158.711	ppb	0.4639	0.3	1829.70
Cr 267.716	159.320	ppb	0.5273	0.3	8629.22
Cu 324.754	163.568	ppb	0.9488	0.6	11371.6
Fe 271.441	14927.1	ppb	23.3013	0.2	24659.8
K 766.491	16405.9	ppb	58.0565	0.4	682872
Mg 279.078	14946.4	ppb	17.8472	0.1	40857.7
Mn 257.610	1721.93	ppb	2.9302	0.2	348465
Mo 202.032	151.516	ppb	0.5416	0.4	1033.33
Na 330.237	79924.5	ppb	523.811	0.7	3569.55
Ni 231.604	157.119	ppb	1.0030	0.6	471.223
Pb 220.353	151.584	ppb	1.2009	0.8	256.690
Sb 206.834	153.782	ppb	1.2413	0.8	204.968
Se 196.026	147.343	ppb	4.4531	3.0	62.9695
Sn 189.925	146.309	ppb	0.9437	0.6	105.562
Sr 216.596	194.087	ppb	0.5006	0.3	2532.70
Ti 334.941	153.058	ppb	0.1970	0.1	45473.9
Tl 190.794	29.3318	ppb	2.7840	9.5	20.3262
V 292.401	152.359	ppb	0.3552	0.2	3939.19
Zn 206.200	194.823	ppb	2.5197	1.3	218.282

680-107347-b-2-h msd (Samp) **11/21/2014, 12:04:47 AM** **Rack 3, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	146.017	145.819	144.876
Al 308.215	1523.81	1523.77	1521.13
As 188.980	162.905	157.121	162.672

Label	Replicates Concentration		
B 249.678	305.054	305.731	306.919
Ba 389.178	174.937	174.978	175.856
Be 313.042	161.656	161.391	160.946
Ca 370.602	53850	53494	53475
Cd 226.502	155.591	156.115	155.852
Co 228.615	158.607	158.731	159.681
Cr 267.716	160.222	159.919	159.675
Cu 324.754	165.609	165.136	164.603
Fe 271.441	14997.4	14988.5	14976.1
K 766.491	16501.7	16524.5	16479.7
Mg 279.078	14986.1	14956.7	14955.9
Mn 257.610	1729.93	1733.70	1731.81
Mo 202.032	150.503	151.570	151.609
Na 330.237	80101.8	80292.2	80287.4
Ni 231.604	157.435	156.540	157.459
Pb 220.353	149.851	152.008	149.668
Sb 206.834	158.869	150.924	149.810
Se 196.026	145.050	144.321	142.399
Sn 189.925	148.915	150.082	149.280
Sr 216.596	194.455	195.408	194.284
Ti 334.941	153.904	153.885	153.522
Tl 190.794	30.2742	29.6957	29.8747
V 292.401	153.747	152.429	152.364
Zn 206.200	195.701	194.348	194.942

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	145.571	ppb	0.6095	0.4	11934.6
Al 308.215	1522.90	ppb	1.5382	0.1	10798.6
As 188.980	160.899	ppb	3.2739	2.0	82.3915
B 249.678	305.901	ppb	0.9444	0.3	5108.99
Ba 389.178	175.257	ppb	0.5192	0.3	3697.98
Be 313.042	161.331	ppb	0.3588	0.2	294377
Ca 370.602	53606	ppb	211.0	0.4	142714
Cd 226.502	155.853	ppb	0.2620	0.2	6561.62
Co 228.615	159.006	ppb	0.5879	0.4	1833.14
Cr 267.716	159.939	ppb	0.2735	0.2	8662.63
Cu 324.754	165.116	ppb	0.5032	0.3	11476.9
Fe 271.441	14987.3	ppb	10.6810	0.1	24759.2
K 766.491	16502.0	ppb	22.3623	0.1	686870
Mg 279.078	14966.2	ppb	17.2053	0.1	40911.6
Mn 257.610	1731.81	ppb	1.8807	0.1	350466
Mo 202.032	151.227	ppb	0.6273	0.4	1031.37
Na 330.237	80227.1	ppb	108.562	0.1	3582.94
Ni 231.604	157.145	ppb	0.5239	0.3	471.307
Pb 220.353	150.509	ppb	1.3016	0.9	254.955
Sb 206.834	153.201	ppb	4.9401	3.2	204.197
Se 196.026	143.923	ppb	1.3696	1.0	61.4968
Sn 189.925	149.426	ppb	0.5974	0.4	107.924
Sr 216.596	194.715	ppb	0.6055	0.3	2541.03
Ti 334.941	153.770	ppb	0.2153	0.1	45685.5
Tl 190.794	29.9482	ppb	0.2962	1.0	20.9721
V 292.401	152.847	ppb	0.7803	0.5	3951.98
Zn 206.200	194.997	ppb	0.6780	0.3	218.472

CRI (Samp) **11/21/2014, 12:09:04 AM** **Rack 3, Tube 5**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.7430	10.8365	10.5651
Al 308.215	198.011	200.915	204.102
As 188.980	29.3566	24.9864	21.3882
B 249.678	104.595	105.470	105.762
Ba 389.178	10.2007	10.9709	11.1281
Be 313.042	4.3967	4.4489	4.4490
Ca 370.602	523.5	525.8	529.8
Cd 226.502	5.3993	5.4499	5.2663
Co 228.615	11.1464	10.8167	10.9690
Cr 267.716	10.4951	10.8213	10.9778
Cu 324.754	21.9280	22.2206	22.4207
Fe 271.441	55.4211	56.1719	58.2588
K 766.491	1039.46	1049.25	1053.10
Mg 279.078	512.002	510.894	514.328
Mn 257.610	11.6275	11.7607	11.8080
Mo 202.032	10.0500	9.8524	9.9849
Na 330.237	868.839	1042.22	1020.94
Ni 231.604	43.6225	43.8283	43.3100
Pb 220.353	11.0277	11.4682	11.5968
Sb 206.834	22.2464	23.3408	17.4696
Se 196.026	25.8015	23.1947	20.3426
Sn 189.925	53.8459	51.6233	52.7228
Sr 216.596	10.3983	10.2485	9.8665
Ti 334.941	10.2484	10.3855	10.4429
Tl 190.794	26.3088	23.5795	25.4032
V 292.401	10.5133	10.5327	10.9193
Zn 206.200	22.6122	22.4498	26.8035

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.7149	ppb	0.1379	1.3	856.905
Al 308.215	201.009	ppb	3.0466	1.5	1803.04
As 188.980	25.2437	ppb	3.9904	15.8	6.9190
B 249.678	105.275	ppb	0.6075	0.6	1807.99
Ba 389.178	10.7666	ppb	0.4963	4.6	173.234
Be 313.042	4.4315	ppb	0.0301	0.7	7801.59
Ca 370.602	526.4	ppb	3.174	0.6	1412
Cd 226.502	5.3718	ppb	0.0948	1.8	241.090
Co 228.615	10.9774	ppb	0.1650	1.5	124.759
Cr 267.716	10.7647	ppb	0.2463	2.3	614.525
Cu 324.754	22.1898	ppb	0.2478	1.1	1742.84
Fe 271.441	56.6173	ppb	1.4704	2.6	111.634
K 766.491	1047.27	ppb	7.0284	0.7	43823.5
Mg 279.078	512.408	ppb	1.7528	0.3	1426.26
Mn 257.610	11.7320	ppb	0.0936	0.8	2457.91
Mo 202.032	9.9624	ppb	0.1007	1.0	73.3723
Na 330.237	977.332	ppb	94.5588	9.7	71.8182
Ni 231.604	43.5869	ppb	0.2610	0.6	126.839
Pb 220.353	11.3642	ppb	0.2984	2.6	28.2469
Sb 206.834	21.0189	ppb	3.1221	14.9	24.0657
Se 196.026	23.1129	ppb	2.7304	11.8	8.8996
Sn 189.925	52.7307	ppb	1.1113	2.1	34.6154
Sr 216.596	10.1711	ppb	0.2742	2.7	133.654

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	10.3589	ppb	0.0999	1.0	3083.29
Tl 190.794	25.0972	ppb	1.3901	5.5	17.1134
V 292.401	10.6551	ppb	0.2290	2.1	267.811
Zn 206.200	23.9552	ppb	2.4681	10.3	28.1904

mb 680-359662/1-a (Samp) **11/21/2014, 12:13:22 AM** **Rack 3, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1529	0.2802	0.0693
Al 308.215	-0.1050u	0.4566	0.2148
As 188.980	-1.1639u	0.0063	-1.4684u
B 249.678	3.3361	3.2428	2.9604
Ba 389.178	0.3425	-0.2238u	0.6146
Be 313.042	0.0049	0.0031	0.0020
Ca 370.602	10.11	6.986	8.086
Cd 226.502	-0.0233u	-0.0191u	0.1132
Co 228.615	-0.0319u	0.1005	0.5318
Cr 267.716	0.0688	0.0397	0.2350
Cu 324.754	-0.4540u	-0.4337u	-0.1555u
Fe 271.441	-3.5393u	5.4730	-2.0754u
K 766.491	0.7619	0.9242	0.7299
Mg 279.078	-0.8059u	-1.3107u	2.0967
Mn 257.610	0.0277	-0.0061u	-0.0033u
Mo 202.032	0.0219	-0.0321u	0.1813
Na 330.237	36.5729	37.6426	-45.9098u
Ni 231.604	-0.2634u	-0.1755u	0.5669
Pb 220.353	1.9012	0.5317	3.9645
Sb 206.834	1.6911	2.9245	-0.5439u
Se 196.026	-2.4032u	-0.8397u	-3.5029u
Sn 189.925	-0.3340u	-2.4953u	1.0254
Sr 216.596	0.4572	-0.3234u	0.1827
Ti 334.941	-0.1752u	-0.1375u	-0.1448u
Tl 190.794	4.2595	1.9963	1.3431
V 292.401	-0.4196u	-0.7867u	-0.2734u
Zn 206.200	2.2096	3.0581	2.5426

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1675	ppb	0.1062	63.4	-9.2487
Al 308.215	0.1888	ppb	0.2817	149.2	438.316
As 188.980	-0.8753	ppb	0.7785	88.9	-7.6321
B 249.678	3.1798	ppb	0.1956	6.2	111.421
Ba 389.178	0.2444	ppb	0.4277	175.0	-50.7779
Be 313.042	0.0034	ppb	0.0015	43.5	-285.676
Ca 370.602	8.394	ppb	1.585	18.9	28.05
Cd 226.502	0.0236	ppb	0.0776	329.0	18.1696
Co 228.615	0.2001	ppb	0.2947	147.3	0.4708
Cr 267.716	0.1145	ppb	0.1053	92.0	40.9909
Cu 324.754	-0.3478	ppb	0.1668	48.0	209.151
Fe 271.441	-0.0472	ppb	4.8364	10246.6	16.7705
K 766.491	0.8053	ppb	0.1041	12.9	281.687
Mg 279.078	-0.0066	ppb	1.8389	27871.4	25.4660
Mn 257.610	0.0061	ppb	0.0188	307.3	82.6661
Mo 202.032	0.0570	ppb	0.1109	194.5	6.1529

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	9.4352	ppb	47.9332	508.0	29.2936
Ni 231.604	0.0426	ppb	0.4561	1069.6	-4.8851
Pb 220.353	2.1325	ppb	1.7281	81.0	13.2939
Sb 206.834	1.3573	ppb	1.7581	129.5	-2.7218
Se 196.026	-2.2486	ppb	1.3383	59.5	-2.0406
Sn 189.925	-0.6013	ppb	1.7755	295.3	-5.8045
Sr 216.596	0.1055	ppb	0.3960	375.4	5.5070
Ti 334.941	-0.1525	ppb	0.0200	13.1	-38.5521
Tl 190.794	2.5330	ppb	1.5305	60.4	-6.7107
V 292.401	-0.4933	ppb	0.2645	53.6	-21.7530
Zn 206.200	2.6035	ppb	0.4275	16.4	4.3542

lcs 680-359662/2-a (Samp) **11/21/2014, 12:17:39 AM** **Rack 3, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.7096	52.7123	53.1265
Al 308.215	4989.32	4975.47	4993.54
As 188.980	103.714	108.903	107.368
B 249.678	199.717	199.900	200.499
Ba 389.178	105.267	105.059	105.065
Be 313.042	54.8183	54.6175	54.8523
Ca 370.602	4982	4979	4999
Cd 226.502	53.6053	53.4796	53.7480
Co 228.615	53.3726	53.8691	53.2845
Cr 267.716	107.343	107.094	107.742
Cu 324.754	107.847	107.189	107.754
Fe 271.441	5016.10	5016.15	5031.24
K 766.491	5116.96	5097.42	5105.07
Mg 279.078	5003.20	4985.53	4998.95
Mn 257.610	549.921	547.937	549.257
Mo 202.032	99.7594	100.786	101.250
Na 330.237	4921.56	4989.53	5037.81
Ni 231.604	106.203	106.376	106.291
Pb 220.353	501.481	500.475	504.206
Sb 206.834	51.5381	52.3399	57.2956
Se 196.026	94.2010	97.3010	96.2600
Sn 189.925	192.812	196.201	198.523
Sr 216.596	100.776	99.0322	99.4593
Ti 334.941	101.576	101.160	101.579
Tl 190.794	39.1210	42.6601	42.1124
V 292.401	101.499	101.265	101.240
Zn 206.200	107.884	109.336	107.278

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.8495	ppb	0.2399	0.5	4317.11
Al 308.215	4986.11	ppb	9.4526	0.2	34296.4
As 188.980	106.662	ppb	2.6659	2.5	52.2367
B 249.678	200.039	ppb	0.4092	0.2	3371.54
Ba 389.178	105.130	ppb	0.1186	0.1	2185.20
Be 313.042	54.7627	ppb	0.1269	0.2	99724.9
Ca 370.602	4986	ppb	10.66	0.2	13291
Cd 226.502	53.6110	ppb	0.1343	0.3	2267.94
Co 228.615	53.5087	ppb	0.3151	0.6	615.370

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	107.393	ppb	0.3270	0.3	5822.36
Cu 324.754	107.597	ppb	0.3557	0.3	7558.07
Fe 271.441	5021.16	ppb	8.7239	0.2	8306.74
K 766.491	5106.48	ppb	9.8472	0.2	212721
Mg 279.078	4995.89	ppb	9.2199	0.2	13672.6
Mn 257.610	549.038	ppb	1.0097	0.2	111166
Mo 202.032	100.599	ppb	0.7629	0.8	688.247
Na 330.237	4982.97	ppb	58.3985	1.2	246.881
Ni 231.604	106.290	ppb	0.0864	0.1	316.865
Pb 220.353	502.054	ppb	1.9305	0.4	823.922
Sb 206.834	53.7246	ppb	3.1185	5.8	68.4988
Se 196.026	95.9207	ppb	1.5776	1.6	40.4558
Sn 189.925	195.845	ppb	2.8721	1.5	143.081
Sr 216.596	99.7557	ppb	0.9088	0.9	1289.86
Ti 334.941	101.439	ppb	0.2409	0.2	30134.6
Tl 190.794	41.2978	ppb	1.9050	4.6	33.6809
V 292.401	101.335	ppb	0.1433	0.1	2619.02
Zn 206.200	108.166	ppb	1.0574	1.0	121.913

680-107302-d-10-a (Samp) **11/21/2014, 12:21:57 AM** **Rack 3, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2809	0.0863	-0.2944u
Al 308.215	510.237	513.908	513.437
As 188.980	1.7324	2.2090	3.2400
B 249.678	7.3766	6.4840	7.1583
Ba 389.178	7.2839	8.2968	7.9657
Be 313.042	0.0250	0.0254	0.0281
Ca 370.602	3129	3105	3121
Cd 226.502	-0.0791u	-0.1320u	-0.2166u
Co 228.615	0.4001	0.6666	-0.1140u
Cr 267.716	0.7856	0.6607	0.7307
Cu 324.754	0.8733	0.4359	0.7319
Fe 271.441	338.249	337.077	337.660
K 766.491	1006.56	1006.92	1009.19
Mg 279.078	272.304	274.941	271.199
Mn 257.610	23.9135	23.9717	23.8972
Mo 202.032	0.1985	0.2918	0.1003
Na 330.237	6338.46	6399.16	6348.10
Ni 231.604	0.4686	0.8955	0.6759
Pb 220.353	-1.0711u	4.3478	2.3016
Sb 206.834	1.1457	3.9773	-0.8009u
Se 196.026	-6.2635u	-2.3050u	-0.3639u
Sn 189.925	-0.5692u	0.8779	0.4535
Sr 216.596	21.7734	21.5750	21.4885
Ti 334.941	11.3166	11.2525	10.8948
Tl 190.794	2.7419	2.7187	3.1322
V 292.401	3.1835	3.2506	3.1512
Zn 206.200	7.0670	5.0866	7.3838

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0243	ppb	0.2926	1205.8	-21.6719
Al 308.215	512.527	ppb	1.9972	0.4	3916.29

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	2.3938	ppb	0.7706	32.2	-5.8124
B 249.678	7.0063	ppb	0.4653	6.6	174.212
Ba 389.178	7.8488	ppb	0.5165	6.6	111.100
Be 313.042	0.0261	ppb	0.0017	6.5	-243.551
Ca 370.602	3118	ppb	12.04	0.4	8312
Cd 226.502	-0.1426	ppb	0.0694	48.6	12.4373
Co 228.615	0.3176	ppb	0.3968	124.9	2.0868
Cr 267.716	0.7256	ppb	0.0626	8.6	74.3007
Cu 324.754	0.6804	ppb	0.2232	32.8	279.203
Fe 271.441	337.662	ppb	0.5858	0.2	573.878
K 766.491	1007.55	ppb	1.4241	0.1	42171.0
Mg 279.078	272.815	ppb	1.9228	0.7	770.759
Mn 257.610	23.9275	ppb	0.0392	0.2	4923.34
Mo 202.032	0.1969	ppb	0.0958	48.6	7.0825
Na 330.237	6361.90	ppb	32.6187	0.5	311.122
Ni 231.604	0.6800	ppb	0.2135	31.4	-2.9288
Pb 220.353	1.8594	ppb	2.7364	147.2	12.8665
Sb 206.834	1.4407	ppb	2.4027	166.8	-2.5979
Se 196.026	-2.9774	ppb	3.0067	101.0	-2.3468
Sn 189.925	0.2541	ppb	0.7439	292.8	-5.1542
Sr 216.596	21.6123	ppb	0.1461	0.7	283.411
Ti 334.941	11.1547	ppb	0.2273	2.0	3318.75
Tl 190.794	2.8643	ppb	0.2323	8.1	-6.3954
V 292.401	3.1951	ppb	0.0507	1.6	74.6698
Zn 206.200	6.5125	ppb	1.2449	19.1	8.7090

680-107302-d-10-aSD (Samp) **11/21/2014, 12:26:14 AM** **Rack 3, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1557	0.0260	-0.1437u
Al 308.215	103.173	102.040	99.6768
As 188.980	5.5186	3.1026	2.6736
B 249.678	1.2448	1.1633	1.7813
Ba 389.178	1.7815	1.7800	2.3696
Be 313.042	0.0086	0.0052	0.0005
Ca 370.602	641.4	638.8	619.9
Cd 226.502	-0.0586u	0.0000	-0.0169u
Co 228.615	0.2162	0.3445	0.5346
Cr 267.716	0.0536	0.1338	0.0346
Cu 324.754	0.0219	-0.4934u	-0.1990u
Fe 271.441	67.4954	71.5360	71.4032
K 766.491	204.860	202.931	200.743
Mg 279.078	56.0641	57.1954	56.5842
Mn 257.610	4.9506	4.9315	4.8498
Mo 202.032	0.0370	0.1999	-0.1193u
Na 330.237	1273.00	1289.62	1244.47
Ni 231.604	1.3466	1.3135	0.1019
Pb 220.353	2.0529	2.5179	-0.1586u
Sb 206.834	3.2475	2.5731	0.3323
Se 196.026	-4.5021u	-2.7189u	-6.9579u
Sn 189.925	1.9398	0.8496	-0.3103u
Sr 216.596	4.3930	4.5477	4.4011
Ti 334.941	2.1902	2.1905	2.1743

Label	Replicates Concentration		
Tl 190.794	0.3195	3.0225	0.0536
V 292.401	0.2784	0.3191	0.5170
Zn 206.200	1.9619	1.0117	0.5369

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0127	ppb	0.1501	1182.5	-22.0848
Al 308.215	101.630	ppb	1.7841	1.8	1126.95
As 188.980	3.7649	ppb	1.5338	40.7	-5.0469
B 249.678	1.3965	ppb	0.3357	24.0	81.6099
Ba 389.178	1.9770	ppb	0.3400	17.2	-13.9121
Be 313.042	0.0048	ppb	0.0040	85.0	-283.018
Ca 370.602	633.4	ppb	11.73	1.9	1693
Cd 226.502	-0.0252	ppb	0.0302	119.9	16.3941
Co 228.615	0.3651	ppb	0.1602	43.9	2.4299
Cr 267.716	0.0740	ppb	0.0527	71.2	38.8930
Cu 324.754	-0.2235	ppb	0.2585	115.7	217.622
Fe 271.441	70.1449	ppb	2.2955	3.3	132.590
K 766.491	202.844	ppb	2.0600	1.0	8688.23
Mg 279.078	56.6145	ppb	0.5663	1.0	180.147
Mn 257.610	4.9106	ppb	0.0535	1.1	1075.14
Mo 202.032	0.0392	ppb	0.1596	407.2	6.0275
Na 330.237	1269.03	ppb	22.8356	1.8	85.2057
Ni 231.604	0.9207	ppb	0.7093	77.0	-2.2232
Pb 220.353	1.4707	ppb	1.4301	97.2	12.2245
Sb 206.834	2.0510	ppb	1.5261	74.4	-1.7743
Se 196.026	-4.7263	ppb	2.1284	45.0	-3.1074
Sn 189.925	0.8264	ppb	1.1252	136.2	-4.7221
Sr 216.596	4.4472	ppb	0.0870	2.0	61.5886
Ti 334.941	2.1850	ppb	0.0092	0.4	655.504
Tl 190.794	1.1319	ppb	1.6427	145.1	-8.1959
V 292.401	0.3715	ppb	0.1276	34.4	0.8815
Zn 206.200	1.1702	ppb	0.7256	62.0	2.7500

680-107302-d-10-aPDS (Samp) **11/21/2014, 12:30:31 AM** **Rack 3, Tube 10**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	104.102	104.934	103.690
Al 308.215	1565.19	1565.17	1559.48
As 188.980	101.092	105.866	105.372
B 249.678	204.101	205.262	205.003
Ba 389.178	99.7944	101.161	101.287
Be 313.042	109.993	110.040	109.801
Ca 370.602	13334	13333	13280
Cd 226.502	106.410	106.291	105.855
Co 228.615	107.949	108.169	107.659
Cr 267.716	109.462	109.369	109.356
Cu 324.754	110.756	110.479	111.216
Fe 271.441	10507.7	10519.1	10483.2
K 766.491	11611.6	11635.1	11613.8
Mg 279.078	10363.3	10362.5	10339.9
Mn 257.610	1146.36	1147.36	1142.53
Mo 202.032	100.951	101.408	100.845
Na 330.237	15756.7	15770.0	15415.7

Label	Replicates Concentration		
Ni 231.604	106.453	108.066	107.596
Pb 220.353	105.088	101.328	101.265
Sb 206.834	100.791	100.489	101.453
Se 196.026	94.7087	90.8327	90.3147
Sn 189.925	100.885	99.3759	102.385
Sr 216.596	122.558	121.651	121.079
Ti 334.941	114.221	114.508	114.277
Tl 190.794	20.7387	21.9873	18.9529
V 292.401	105.728	105.643	105.683
Zn 206.200	113.951	115.187	114.500

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	104.242	ppb	0.6337	0.6	8539.93
Al 308.215	1563.28	ppb	3.2898	0.2	11064.9
As 188.980	104.110	ppb	2.6254	2.5	50.7847
B 249.678	204.789	ppb	0.6097	0.3	3438.50
Ba 389.178	100.747	ppb	0.8278	0.8	2106.95
Be 313.042	109.945	ppb	0.1265	0.1	200517
Ca 370.602	13316	ppb	30.76	0.2	35438
Cd 226.502	106.185	ppb	0.2923	0.3	4477.35
Co 228.615	107.926	ppb	0.2556	0.2	1243.94
Cr 267.716	109.396	ppb	0.0576	0.1	5935.30
Cu 324.754	110.817	ppb	0.3723	0.3	7779.34
Fe 271.441	10503.3	ppb	18.3473	0.2	17356.1
K 766.491	11620.2	ppb	12.9676	0.1	483747
Mg 279.078	10355.2	ppb	13.2922	0.1	28315.8
Mn 257.610	1145.42	ppb	2.5474	0.2	231829
Mo 202.032	101.068	ppb	0.2994	0.3	691.170
Na 330.237	15647.5	ppb	200.855	1.3	718.948
Ni 231.604	107.371	ppb	0.8296	0.8	320.464
Pb 220.353	102.560	ppb	2.1892	2.1	176.869
Sb 206.834	100.911	ppb	0.4928	0.5	132.979
Se 196.026	91.9520	ppb	2.4013	2.6	38.9190
Sn 189.925	100.882	ppb	1.5045	1.5	71.1132
Sr 216.596	121.763	ppb	0.7459	0.6	1583.54
Ti 334.941	114.335	ppb	0.1521	0.1	33973.0
Tl 190.794	20.5596	ppb	1.5251	7.4	11.4057
V 292.401	105.685	ppb	0.0421	0.0	2730.84
Zn 206.200	114.546	ppb	0.6193	0.5	128.837

680-107302-d-10-b ms (Samp) **11/21/2014, 12:34:48 AM** **Rack 3, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	50.2103	51.3656	51.0254
Al 308.215	5340.34	5346.92	5326.62
As 188.980	102.472	103.760	102.686
B 249.678	196.308	197.631	198.930
Ba 389.178	107.762	108.501	107.555
Be 313.042	53.2903	53.4130	53.2411
Ca 370.602	7655	7683	7679
Cd 226.502	51.6896	51.9211	51.6680
Co 228.615	51.7977	51.6838	51.4892
Cr 267.716	104.231	104.842	104.817

Label	Replicates Concentration		
Cu 324.754	106.284	107.315	104.820
Fe 271.441	5158.09	5178.10	5169.81
K 766.491	5934.96	5962.27	5917.85
Mg 279.078	5055.31	5075.97	5063.58
Mn 257.610	553.566	556.335	553.260
Mo 202.032	96.6897	98.0902	97.5265
Na 330.237	11049.8	10957.0	10753.8
Ni 231.604	101.398	101.033	104.127
Pb 220.353	482.572	484.288	486.742
Sb 206.834	48.9575	52.5012	51.2164
Se 196.026	98.6556	82.0173	87.8210
Sn 189.925	195.460	190.474	191.971
Sr 216.596	116.143	116.437	116.018
Ti 334.941	106.763	107.129	107.374
Tl 190.794	42.4170	42.3892	39.0997
V 292.401	100.610	101.041	100.758
Zn 206.200	109.743	107.358	110.568

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	50.8671	ppb	0.5937	1.2	4153.66
Al 308.215	5337.96	ppb	10.3557	0.2	36684.6
As 188.980	102.972	ppb	0.6903	0.7	50.1809
B 249.678	197.623	ppb	1.3110	0.7	3331.02
Ba 389.178	107.939	ppb	0.4976	0.5	2244.94
Be 313.042	53.3148	ppb	0.0885	0.2	97081.1
Ca 370.602	7672	ppb	15.18	0.2	20445
Cd 226.502	51.7596	ppb	0.1403	0.3	2191.38
Co 228.615	51.6569	ppb	0.1560	0.3	594.228
Cr 267.716	104.630	ppb	0.3454	0.3	5673.78
Cu 324.754	106.140	ppb	1.2541	1.2	7458.89
Fe 271.441	5168.67	ppb	10.0543	0.2	8549.83
K 766.491	5938.36	ppb	22.4045	0.4	247334
Mg 279.078	5064.95	ppb	10.3986	0.2	13861.3
Mn 257.610	554.387	ppb	1.6938	0.3	112249
Mo 202.032	97.4355	ppb	0.7047	0.7	666.770
Na 330.237	10920.2	ppb	151.417	1.4	510.381
Ni 231.604	102.186	ppb	1.6909	1.7	304.466
Pb 220.353	484.534	ppb	2.0964	0.4	795.528
Sb 206.834	50.8917	ppb	1.7940	3.5	64.6604
Se 196.026	89.4980	ppb	8.4450	9.4	37.6882
Sn 189.925	192.635	ppb	2.5585	1.3	140.650
Sr 216.596	116.199	ppb	0.2150	0.2	1502.52
Ti 334.941	107.088	ppb	0.3076	0.3	31811.9
Tl 190.794	41.3020	ppb	1.9073	4.6	33.6690
V 292.401	100.803	ppb	0.2191	0.2	2605.78
Zn 206.200	109.223	ppb	1.6673	1.5	123.093

680-107302-d-10-c ms (Samp) **11/21/2014, 12:39:06 AM** **Rack 3, Tube 12**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.2380	52.1224	51.5056
Al 308.215	5526.62	5519.89	5501.89
As 188.980	100.564	109.262	104.074

Label	Replicates Concentration		
B 249.678	205.081	204.647	204.540
Ba 389.178	111.937	111.888	111.774
Be 313.042	55.2863	55.1260	55.0620
Ca 370.602	8008	7985	7945
Cd 226.502	53.4677	53.3845	52.9273
Co 228.615	54.1688	53.6660	53.5042
Cr 267.716	108.465	108.518	108.171
Cu 324.754	109.835	109.075	109.034
Fe 271.441	5356.76	5344.52	5330.60
K 766.491	6130.50	6125.24	6104.98
Mg 279.078	5251.09	5237.72	5226.76
Mn 257.610	572.522	571.249	569.650
Mo 202.032	101.549	99.4765	100.549
Na 330.237	11344.9	11450.9	11406.9
Ni 231.604	107.067	106.790	107.467
Pb 220.353	502.395	498.036	498.964
Sb 206.834	52.7082	53.9846	51.2122
Se 196.026	94.9529	98.0357	93.0106
Sn 189.925	201.775	199.679	197.822
Sr 216.596	120.280	120.321	120.425
Ti 334.941	110.601	110.305	110.285
Tl 190.794	41.0146	38.4511	42.5541
V 292.401	104.960	104.550	104.496
Zn 206.200	113.648	113.471	112.269

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	51.9554	ppb	0.3937	0.8	4243.02
Al 308.215	5516.13	ppb	12.7851	0.2	37894.4
As 188.980	104.633	ppb	4.3760	4.2	51.1048
B 249.678	204.756	ppb	0.2863	0.1	3449.17
Ba 389.178	111.866	ppb	0.0837	0.1	2328.60
Be 313.042	55.1581	ppb	0.1155	0.2	100448
Ca 370.602	7979	ppb	31.71	0.4	21263
Cd 226.502	53.2598	ppb	0.2910	0.5	2254.46
Co 228.615	53.7797	ppb	0.3466	0.6	618.725
Cr 267.716	108.385	ppb	0.1870	0.2	5876.13
Cu 324.754	109.315	ppb	0.4512	0.4	7675.06
Fe 271.441	5343.96	ppb	13.0906	0.2	8839.25
K 766.491	6120.24	ppb	13.4771	0.2	254902
Mg 279.078	5238.52	ppb	12.1843	0.2	14335.4
Mn 257.610	571.140	ppb	1.4393	0.3	115639
Mo 202.032	100.525	ppb	1.0366	1.0	687.728
Na 330.237	11400.9	ppb	53.2320	0.5	531.619
Ni 231.604	107.108	ppb	0.3404	0.3	319.367
Pb 220.353	499.798	ppb	2.2959	0.5	820.281
Sb 206.834	52.6350	ppb	1.3877	2.6	67.0398
Se 196.026	95.3331	ppb	2.5341	2.7	40.2099
Sn 189.925	199.758	ppb	1.9775	1.0	146.049
Sr 216.596	120.342	ppb	0.0748	0.1	1555.86
Ti 334.941	110.397	ppb	0.1768	0.2	32794.6
Tl 190.794	40.6733	ppb	2.0727	5.1	32.9909
V 292.401	104.668	ppb	0.2538	0.2	2706.26
Zn 206.200	113.129	ppb	0.7503	0.7	127.445

Cont Calib Verif (CCV) **11/21/2014, 12:43:23 AM** **Rack 3, Tube 13**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	503.486	501.133	500.280
Al 308.215	4905.37	4892.83	4895.27
As 188.980	492.276	489.159	480.706
B 249.678	494.306	493.074	496.002
Ba 389.178	5267.15	5244.49	5233.83
Be 313.042	530.739	529.034	525.124
Ca 370.602	4955	4916	4894
Cd 226.502	523.051	521.664	523.629
Co 228.615	527.201	524.327	524.321
Cr 267.716	5240.76	5212.66	5216.85
Cu 324.754	5303.51	5317.37	5331.14
Fe 271.441	4967.65	4944.21	4940.14
K 766.491	10357.7	10307.7	10289.2
Mg 279.078	4949.62	4922.89	4935.58
Mn 257.610	5323.40	5332.39	5335.14
Mo 202.032	493.998	494.388	497.856
Na 330.237	7535.31	7636.25	7608.76
Ni 231.604	2590.16	2576.90	2598.39
Pb 220.353	497.185	491.527	489.760
Sb 206.834	977.429	968.358	974.309
Se 196.026	4860.28	4806.88	4821.26
Sn 189.925	4962.51	4898.71	4922.54
Sr 216.596	2497.43	2470.58	2476.25
Ti 334.941	501.010	498.775	497.967
Tl 190.794	5004.58	4988.62	4995.76
V 292.401	4950.28	4915.85	4905.56
Zn 206.200	2623.03	2603.07	2615.01

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	501.633	ppb	1.6603	0.3	41138.4	100.32661
Al 308.215	4897.83	ppb	6.6476	0.1	34356.0	97.95651
As 188.980	487.380	ppb	5.9865	1.2	264.282	97.47606
B 249.678	494.461	ppb	1.4700	0.3	8277.66	98.89212
Ba 389.178	5248.49	ppb	17.0135	0.3	111148	104.96977
Be 313.042	528.299	ppb	2.8786	0.5	964855	105.65985
Ca 370.602	4922	ppb	31.13	0.6	13436	98.43189
Cd 226.502	522.781	ppb	1.0101	0.2	21804.4	104.55629
Co 228.615	525.283	ppb	1.6611	0.3	6064.82	105.05658
Cr 267.716	5223.42	ppb	15.1623	0.3	281318	104.46840
Cu 324.754	5317.34	ppb	13.8147	0.3	361976	106.34679
Fe 271.441	4950.67	ppb	14.8447	0.3	8291.03	99.01337
K 766.491	10318.2	ppb	35.4548	0.3	429574	103.18222
Mg 279.078	4936.03	ppb	13.3711	0.3	13409.9	98.72060
Mn 257.610	5330.31	ppb	6.1374	0.1	1078110	106.60618
Mo 202.032	495.414	ppb	2.1237	0.4	3362.84	99.08279
Na 330.237	7593.44	ppb	52.1859	0.7	314.173	101.24585
Ni 231.604	2588.48	ppb	10.8428	0.4	7825.72	103.53928
Pb 220.353	492.824	ppb	3.8785	0.8	813.356	98.56479
Sb 206.834	973.365	ppb	4.6086	0.5	1381.03	97.33655
Se 196.026	4829.47	ppb	27.6341	0.6	2082.82	96.58946
Sn 189.925	4927.92	ppb	32.2364	0.7	3729.45	98.55837
Sr 216.596	2481.42	ppb	14.1519	0.6	31796.8	99.25694

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	499.251	ppb	1.5758	0.3	148250	99.85017
Tl 190.794	4996.32	ppb	7.9971	0.2	5273.18	99.92641
V 292.401	4923.90	ppb	23.4173	0.5	128592	98.47795
Zn 206.200	2613.70	ppb	10.0431	0.4	2911.08	104.54813

Cont Calib Blank (CCB) **11/21/2014, 12:47:41 AM** **Rack 3, Tube 14**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2530u	0.2063	-0.0166u
Al 308.215	0.9131	0.6712	1.0462
As 188.980	1.7263	-0.5066u	-1.5570u
B 249.678	9.1718	8.1583	7.2225
Ba 389.178	0.6386	0.2554	-0.2397u
Be 313.042	0.0216	0.0287	0.0310
Ca 370.602	6.113	6.077	10.28
Cd 226.502	0.0355	0.1087	0.0698
Co 228.615	-0.5180u	-0.4861u	-0.1601u
Cr 267.716	0.1939	0.1798	0.1001
Cu 324.754	-0.2156u	-0.1852u	0.3018
Fe 271.441	0.1565	-0.6020u	0.7710
K 766.491	1.7042	1.9762	1.8006
Mg 279.078	-0.7350u	0.1463	0.3295
Mn 257.610	0.2231	0.3082	0.3385
Mo 202.032	1.0972	0.3063	0.4209
Na 330.237	22.7780	-92.2014u	45.3353
Ni 231.604	0.5825	1.0276	1.0096
Pb 220.353	2.7147	2.8948	-0.7814u
Sb 206.834	3.0095	4.8431	5.3077
Se 196.026	-6.3996u	-1.6370u	-2.7879u
Sn 189.925	1.5844	0.2016	1.2729
Sr 216.596	-0.1494u	0.3937	0.4714
Ti 334.941	0.1180	0.0715	0.1066
Tl 190.794	2.8880	2.7885	1.8427
V 292.401	-0.2613u	-0.1602u	0.0638
Zn 206.200	-0.9086u	1.3297	-0.0404u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	-0.0211	ppb	0.2297	1090.4	-24.7347	-0.02107
Al 308.215	0.8768	ppb	0.1901	21.7	443.027	0.87682
As 188.980	-0.1125	ppb	1.6768	1491.0	-7.2072	-0.11246
B 249.678	8.1842	ppb	0.9749	11.9	194.585	8.18419
Ba 389.178	0.2181	ppb	0.4404	201.9	-51.3297	0.21811
Be 313.042	0.0271	ppb	0.0049	18.1	-242.384	0.02711
Ca 370.602	7.490	ppb	2.416	32.3	25.74	7.48957
Cd 226.502	0.0713	ppb	0.0366	51.3	20.1621	0.07134
Co 228.615	-0.3881	ppb	0.1980	51.0	-6.3254	-0.38808
Cr 267.716	0.1579	ppb	0.0506	32.0	43.3311	0.15793
Cu 324.754	-0.0330	ppb	0.2904	880.4	230.585	-0.03298
Fe 271.441	0.1085	ppb	0.6877	633.9	16.9774	0.10849
K 766.491	1.8270	ppb	0.1379	7.5	324.195	1.82698
Mg 279.078	-0.0864	ppb	0.5691	658.7	25.2420	-0.08641
Mn 257.610	0.2900	ppb	0.0599	20.6	140.083	0.28995
Mo 202.032	0.6081	ppb	0.4274	70.3	9.8931	0.60812

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	-8.0294	ppb	73.7625	918.7	28.5726	-8.02936
Ni 231.604	0.8733	ppb	0.2519	28.8	-2.3709	0.87325
Pb 220.353	1.6094	ppb	2.0724	128.8	12.4453	1.60936
Sb 206.834	4.3868	ppb	1.2152	27.7	1.4003	4.38679
Se 196.026	-3.6082	ppb	2.4850	68.9	-2.6268	-3.60818
Sn 189.925	1.0196	ppb	0.7253	71.1	-4.5760	1.01965
Sr 216.596	0.2386	ppb	0.3382	141.8	7.1813	0.23858
Ti 334.941	0.0987	ppb	0.0242	24.6	36.0431	0.09870
Tl 190.794	2.5064	ppb	0.5770	23.0	-6.7414	2.50640
V 292.401	-0.1192	ppb	0.1664	139.5	-12.0590	-0.11925
Zn 206.200	0.1269	ppb	1.1285	889.2	1.5865	0.12691

660-64014-a-1-a (Samp) **11/21/2014, 12:51:58 AM** **Rack 3, Tube 15**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1050u	0.1153u	-0.1302u
Al 308.215	34.9931	33.7265	34.6387
As 188.980	2621.23	2630.06	2604.17
B 249.678	76.0491	76.4989	76.3663
Ba 389.178	53.8161	53.9417	53.6992
Be 313.042	-0.0224u	-0.0160	-0.0338u
Ca 370.602	128458	128528	128108
Cd 226.502	0.0570	-0.0518	0.1156
Co 228.615	-0.3208u	-0.3363u	-0.2287u
Cr 267.716	0.9072	0.7138	0.9366
Cu 324.754	-0.2087u	-0.5658u	-0.8969u
Fe 271.441	2565.89	2576.39	2558.13
K 766.491	31648.6	31558.7	31531.7
Mg 279.078	12106.7	12099.6	12090.7
Mn 257.610	58.4066	58.2948	58.3727
Mo 202.032	2.8430	2.3173	2.6250
Na 330.237	24152.8	24332.7	24102.6
Ni 231.604	4.8105	4.7564	5.4146
Pb 220.353	4.5060	1.0552	-0.3858u
Sb 206.834	-1.9423u	5.2994	3.7388
Se 196.026	3.0386	0.6274	-2.2709u
Sn 189.925	-2.1529u	-2.3756u	-1.3812u
Sr 216.596	949.526	949.319	950.864
Ti 334.941	0.7881	0.7607	0.6168
Tl 190.794	-1.7287u	-0.0108u	1.9019
V 292.401	2.9262	2.6023	2.4000
Zn 206.200	4.0485	2.9703	4.7699

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0400	ppb	0.1351	338.0	-58.6137
Al 308.215	34.4528	ppb	0.6534	1.9	671.668
As 188.980	2618.49	ppb	13.1655	0.5	1451.89
B 249.678	76.3047	ppb	0.2311	0.3	1320.63
Ba 389.178	53.8190	ppb	0.1212	0.2	1109.82
Be 313.042	-0.0241	ppb	0.0090	37.5	-296.034
Ca 370.602	128365	ppb	224.9	0.2	341806
Cd 226.502	0.0403	ppb	0.0850	211.0	28.2977
Co 228.615	-0.2953	ppb	0.0582	19.7	-5.0955

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.8526	ppb	0.1210	14.2	82.6822
Cu 324.754	-0.5572	ppb	0.3442	61.8	195.988
Fe 271.441	2566.80	ppb	9.1649	0.4	4250.81
K 766.491	31579.7	ppb	61.1994	0.2	1314230
Mg 279.078	12099.0	ppb	8.0164	0.1	33107.0
Mn 257.610	58.3580	ppb	0.0573	0.1	11978.7
Mo 202.032	2.5951	ppb	0.2641	10.2	23.2560
Na 330.237	24196.0	ppb	120.981	0.5	1102.31
Ni 231.604	4.9939	ppb	0.3654	7.3	10.3111
Pb 220.353	1.7251	ppb	2.5138	145.7	12.8187
Sb 206.834	2.3653	ppb	3.8112	161.1	-1.3367
Se 196.026	0.4650	ppb	2.6585	571.7	-0.8358
Sn 189.925	-1.9699	ppb	0.5218	26.5	-6.8342
Sr 216.596	949.903	ppb	0.8383	0.1	12258.5
Ti 334.941	0.7219	ppb	0.0920	12.7	241.258
Tl 190.794	0.0541	ppb	1.8162	3356.1	-9.6907
V 292.401	2.6428	ppb	0.2654	10.0	58.8802
Zn 206.200	3.9296	ppb	0.9057	23.0	5.7410

660-64014-a-2-a (Samp) **11/21/2014, 12:56:15 AM** **Rack 3, Tube 16**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2737u	-0.1457u	0.0283u
Al 308.215	37.4774	38.1712	36.0190
As 188.980	2227.95	2196.14	2227.42
B 249.678	128.714	128.624	128.548
Ba 389.178	75.8088	76.3569	77.0121
Be 313.042	-0.0044	-0.0097	-0.0066
Ca 370.602	138582	138851	138726
Cd 226.502	-0.1597	-0.0353	-0.0643
Co 228.615	3.8047	4.4560	3.6493
Cr 267.716	2.5032	2.7991	2.7135
Cu 324.754	0.0915	0.1987	0.2113
Fe 271.441	14230.8	14233.8	14250.8
K 766.491	101042x	101070x	101101x
Mg 279.078	20340.4	20333.8	20325.6
Mn 257.610	711.636	711.347	711.440
Mo 202.032	4.0527	3.3962	4.0708
Na 330.237	20540.3	20381.0	20306.2
Ni 231.604	5.5655	5.3496	4.1648
Pb 220.353	2.9767	3.3964	0.8627
Sb 206.834	0.4500	2.2260	-3.1322u
Se 196.026	3.0906	9.4487	6.2510
Sn 189.925	-0.0661u	-0.3201u	2.7849
Sr 216.596	1053.61	1057.23	1054.37
Ti 334.941	0.9169	0.9531	0.9566
Tl 190.794	-0.4242u	4.4430	-0.6439u
V 292.401	45.5565	45.4465	46.1748
Zn 206.200	6.3924	7.7700	6.1410

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1304b	ppb	0.1516	116.2	-68.3340
Al 308.215	37.2226b	ppb	1.0985	3.0	697.630

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	2217.17b	ppb	18.2143	0.8	1228.20
B 249.678	128.629b	ppb	0.0832	0.1	2163.22
Ba 389.178	76.3926b	ppb	0.6025	0.8	1612.85
Be 313.042	-0.0069b	ppb	0.0027	38.5	-262.616
Ca 370.602	138720b	ppb	134.5	0.1	369282
Cd 226.502	-0.0865b	ppb	0.0651	75.3	65.8757
Co 228.615	3.9700b	ppb	0.4280	10.8	44.9407
Cr 267.716	2.6719b	ppb	0.1523	5.7	188.859
Cu 324.754	0.1672b	ppb	0.0658	39.4	249.419
Fe 271.441	14238.5b	ppb	10.8281	0.1	23504.2
K 766.491	101071xb	ppb	29.6607	0.0	4205669
Mg 279.078	20333.3b	ppb	7.3979	0.0	55608.6
Mn 257.610	711.474b	ppb	0.1476	0.0	144154
Mo 202.032	3.8399b	ppb	0.3844	10.0	31.1098
Na 330.237	20409.2b	ppb	119.543	0.6	931.599
Ni 231.604	5.0266b	ppb	0.7541	15.0	11.3763
Pb 220.353	2.4119b	ppb	1.3580	56.3	14.8714
Sb 206.834	-0.1521b	ppb	2.7293	1794.8	-4.5569
Se 196.026	6.2634b	ppb	3.1791	50.8	1.9050
Sn 189.925	0.7995b	ppb	1.7240	215.6	-4.7365
Sr 216.596	1055.07b	ppb	1.9086	0.2	13629.4
Ti 334.941	0.9422b	ppb	0.0220	2.3	323.208
Tl 190.794	1.1250b	ppb	2.8756	255.6	-9.9259
V 292.401	45.7259b	ppb	0.3926	0.9	1182.52
Zn 206.200	6.7678b	ppb	0.8770	13.0	8.4834

660-64014-a-3-a (Samp) **11/21/2014, 1:00:32 AM** **Rack 3, Tube 17**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0554u	-0.1324u	0.1333u
Al 308.215	38.1180	37.2476	39.3622
As 188.980	8151.48	8037.32	8098.24
B 249.678	59.7638	59.8396	59.9114
Ba 389.178	54.9903	56.3224	55.6599
Be 313.042	-0.0117	-0.0257u	-0.0170
Ca 370.602	127091	126652	126499
Cd 226.502	0.0454	0.0953	0.0520
Co 228.615	-0.1002u	0.3933	0.7441
Cr 267.716	0.7557	0.6060	0.6054
Cu 324.754	-0.1475u	-0.1079u	-0.2066u
Fe 271.441	4385.15	4368.92	4388.11
K 766.491	21473.4	21483.9	21524.8
Mg 279.078	4743.23	4748.80	4727.72
Mn 257.610	19.3479	19.4620	19.4469
Mo 202.032	6.0528	6.3075	6.7252
Na 330.237	10272.4	10376.4	10196.6
Ni 231.604	1.9771	2.5415	0.9309
Pb 220.353	-0.5757u	2.3311	1.0386
Sb 206.834	-0.5433u	1.6054	2.2862
Se 196.026	2.0682	-13.5613u	-5.0182u
Sn 189.925	3.4123	-1.5854u	1.5900
Sr 216.596	864.319	863.799	865.351
Ti 334.941	0.2821	0.2950	0.2685

Label	Replicates Concentration		
Tl 190.794	-1.6043u	-0.5714u	-1.9521u
V 292.401	6.4049	6.4611	6.0850
Zn 206.200	7.6825	7.6612	9.5512

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0187	ppb	0.1366	728.6	-51.2737
Al 308.215	38.2426	ppb	1.0628	2.8	698.187
As 188.980	8095.68	ppb	57.1218	0.7	4503.82
B 249.678	59.8383	ppb	0.0738	0.1	1042.81
Ba 389.178	55.6575	ppb	0.6661	1.2	1135.62
Be 313.042	-0.0181	ppb	0.0071	39.2	-284.843
Ca 370.602	126748	ppb	307.1	0.2	337481
Cd 226.502	0.0642	ppb	0.0271	42.2	35.8952
Co 228.615	0.3457	ppb	0.4241	122.7	2.3009
Cr 267.716	0.6557	ppb	0.0866	13.2	72.4452
Cu 324.754	-0.1540	ppb	0.0497	32.3	224.235
Fe 271.441	4380.73	ppb	10.3288	0.2	7243.02
K 766.491	21494.0	ppb	27.1635	0.1	894581
Mg 279.078	4739.92	ppb	10.9224	0.2	12985.6
Mn 257.610	19.4189	ppb	0.0619	0.3	4056.27
Mo 202.032	6.3618	ppb	0.3394	5.3	48.7343
Na 330.237	10281.8	ppb	90.2398	0.9	484.205
Ni 231.604	1.8165	ppb	0.8172	45.0	0.8472
Pb 220.353	0.9313	ppb	1.4564	156.4	11.6422
Sb 206.834	1.1161	ppb	1.4769	132.3	-3.0720
Se 196.026	-5.5037	ppb	7.8260	142.2	-3.4028
Sn 189.925	1.1390	ppb	2.5292	222.1	-4.4824
Sr 216.596	864.490	ppb	0.7901	0.1	11163.4
Ti 334.941	0.2819	ppb	0.0132	4.7	98.6850
Tl 190.794	-1.3759	ppb	0.7181	52.2	-11.4968
V 292.401	6.3170	ppb	0.2029	3.2	153.719
Zn 206.200	8.2983	ppb	1.0851	13.1	10.5576

660-64014-a-4-a (Samp) **11/21/2014, 1:04:50 AM** **Rack 3, Tube 18**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1293u	-0.0388u	-0.0807u
Al 308.215	7.9527	8.5105	10.9463
As 188.980	2.1802	3.6259	5.1129
B 249.678	68.5343	69.2890	69.1582
Ba 389.178	70.0207	70.1497	70.1121
Be 313.042	-0.0274u	-0.0134u	-0.0167u
Ca 370.602	92492	92983	93040
Cd 226.502	0.1174	-0.0265	0.0320
Co 228.615	0.3072	-0.2097u	-0.3323u
Cr 267.716	1.0003	1.3335	1.1030
Cu 324.754	-0.1687u	-0.2832u	-0.5073u
Fe 271.441	515.973	518.686	513.374
K 766.491	67022.1x	66963.6x	66845.3x
Mg 279.078	32963.2	32977.6	32916.7
Mn 257.610	14.8659	14.9237	14.8076
Mo 202.032	0.3562	0.6224	0.0549
Na 330.237	54652.2	54591.5	54327.2

Label	Replicates Concentration		
Ni 231.604	2.4692	2.2045	0.6956
Pb 220.353	1.6019	4.9771	1.2937
Sb 206.834	-1.8561u	2.6013	-0.4757u
Se 196.026	-3.6031u	-3.7898u	6.2907
Sn 189.925	1.9112	-0.6965u	1.6376
Sr 216.596	934.613	935.276	931.547
Ti 334.941	0.2003	0.1299	0.2211
Tl 190.794	-0.7928u	-3.0090u	0.2784
V 292.401	5.3400	5.7599	5.4223
Zn 206.200	5.6144	6.5910	4.6984

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0830b	ppb	0.0453	54.6	-61.6964
Al 308.215	9.1365b	ppb	1.5920	17.4	499.950
As 188.980	3.6397b	ppb	1.4664	40.3	-5.1192
B 249.678	68.9938b	ppb	0.4033	0.6	1203.96
Ba 389.178	70.0942b	ppb	0.0664	0.1	1494.17
Be 313.042	-0.0192b	ppb	0.0073	38.1	-304.400
Ca 370.602	92838b	ppb	301.4	0.3	247221
Cd 226.502	0.0410b	ppb	0.0724	176.6	20.9274
Co 228.615	-0.0783b	ppb	0.3394	433.6	-2.6564
Cr 267.716	1.1456b	ppb	0.1706	14.9	97.8288
Cu 324.754	-0.3197b	ppb	0.1722	53.9	211.194
Fe 271.441	516.011b	ppb	2.6558	0.5	868.034
K 766.491	66943.7xb	ppb	90.1047	0.1	2785673
Mg 279.078	32952.5b	ppb	31.8224	0.1	90128.4
Mn 257.610	14.8658b	ppb	0.0581	0.4	3325.98
Mo 202.032	0.3445b	ppb	0.2839	82.4	8.0729
Na 330.237	54523.6b	ppb	172.767	0.3	2448.92
Ni 231.604	1.7898b	ppb	0.9568	53.5	0.4449
Pb 220.353	2.6242b	ppb	2.0435	77.9	14.1300
Sb 206.834	0.0898b	ppb	2.2819	2540.3	-4.4336
Se 196.026	-0.3674b	ppb	5.7668	1569.6	-1.2214
Sn 189.925	0.9507b	ppb	1.4331	150.7	-4.6112
Sr 216.596	933.812b	ppb	1.9895	0.2	12034.6
Ti 334.941	0.1838b	ppb	0.0478	26.0	116.389
Tl 190.794	-1.1744b	ppb	1.6766	142.8	-10.6860
V 292.401	5.5074b	ppb	0.2225	4.0	135.054
Zn 206.200	5.6346b	ppb	0.9464	16.8	7.7206

680-107336-b-10-a (Samp) **11/21/2014, 1:09:07 AM** **Rack 3, Tube 19**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2743u	0.0959u	-0.2253u
Al 308.215	53.6482	54.6286	59.0290
As 188.980	0.1655	6.3598	4.5147
B 249.678	335.583	337.078	337.288
Ba 389.178	806.613	806.306	806.492
Be 313.042	-0.0302u	-0.0225u	-0.0249u
Ca 370.602	140277	140673	140341
Cd 226.502	0.0353	-0.1110	-0.0466
Co 228.615	0.0931	-0.4158u	0.0179
Cr 267.716	0.4171	0.4598	0.6611

Label	Replicates Concentration		
Cu 324.754	1.8514	1.8164	2.1889
Fe 271.441	8239.93	8250.32	8234.66
K 766.491	63900.6x	64058.4x	63982.1x
Mg 279.078	40764.7	40746.6	40725.5
Mn 257.610	486.440	487.122	487.497
Mo 202.032	-0.2504u	0.1464	0.6185
Na 330.237	34287.2	34341.1	34592.5
Ni 231.604	1.9510	3.1826	2.7674
Pb 220.353	5.5655	3.1699	5.0754
Sb 206.834	0.4578	2.5478	3.7108
Se 196.026	-3.0395u	6.7929	-1.6601u
Sn 189.925	0.5814	0.7113	3.2786
Sr 216.596	672.780	671.314	672.573
Ti 334.941	1.4693	1.6603	1.5203
Tl 190.794	-0.2076u	1.1579	0.2904u
V 292.401	0.3178	0.3039	0.0143u
Zn 206.200	11.6929	9.7117	9.2134

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1346b	ppb	0.2011	149.4	-56.4491
Al 308.215	55.7686b	ppb	2.8658	5.1	816.579
As 188.980	3.6800b	ppb	3.1804	86.4	-5.1392
B 249.678	336.650b	ppb	0.9296	0.3	5633.51
Ba 389.178	806.471b	ppb	0.1546	0.0	17113.7
Be 313.042	-0.0259b	ppb	0.0039	15.2	-298.759
Ca 370.602	140430b	ppb	213.0	0.2	373891
Cd 226.502	-0.0408b	ppb	0.0733	179.9	46.0265
Co 228.615	-0.1016b	ppb	0.2747	270.5	-2.3606
Cr 267.716	0.5127b	ppb	0.1303	25.4	69.3922
Cu 324.754	1.9522b	ppb	0.2057	10.5	368.951
Fe 271.441	8241.64b	ppb	7.9688	0.1	13611.5
K 766.491	63980.4xb	ppb	78.9365	0.1	2662375
Mg 279.078	40745.6b	ppb	19.6053	0.0	111427
Mn 257.610	487.020b	ppb	0.5354	0.1	98890.4
Mo 202.032	0.1715b	ppb	0.4350	253.7	6.5417
Na 330.237	34406.9b	ppb	162.931	0.5	1554.17
Ni 231.604	2.6337b	ppb	0.6266	23.8	3.6444
Pb 220.353	4.6036b	ppb	1.2656	27.5	17.9686
Sb 206.834	2.2388b	ppb	1.6484	73.6	-1.3683
Se 196.026	0.6978b	ppb	5.3234	762.9	-0.5946
Sn 189.925	1.5238b	ppb	1.5211	99.8	-4.1832
Sr 216.596	672.222b	ppb	0.7936	0.1	8705.54
Ti 334.941	1.5500b	ppb	0.0989	6.4	538.586
Tl 190.794	0.4136b	ppb	0.6910	167.1	-9.9524
V 292.401	0.2120b	ppb	0.1714	80.8	-6.0519
Zn 206.200	10.2060b	ppb	1.3116	12.9	12.5489

680-107336-a-11-a (Samp) **11/21/2014, 1:13:25 AM** **Rack 3, Tube 20**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0731u	-0.1567u	-0.0205u
Al 308.215	4.2096	4.5554	4.4600
As 188.980	3.1744	5.8589	2.7693

Label	Replicates Concentration		
B 249.678	337.471	340.309	341.690
Ba 389.178	804.419	801.203	803.416
Be 313.042	-0.0365u	-0.0301u	-0.0320u
Ca 370.602	138951	139290	139840
Cd 226.502	-0.1862	-0.1629	-0.1590
Co 228.615	-0.0907u	0.2048	-0.1330u
Cr 267.716	-0.0158	0.1949	0.2266
Cu 324.754	-0.6464u	-0.7227u	-0.5211u
Fe 271.441	7951.39	7944.85	7984.75
K 766.491	64373.3x	64266.7x	64247.7x
Mg 279.078	40534.1	40589.9	40669.1
Mn 257.610	480.668	479.937	480.136
Mo 202.032	0.5064	0.0651	-0.0532u
Na 330.237	34688.1	34265.5	34422.2
Ni 231.604	2.5919	2.1664	2.6273
Pb 220.353	3.3062	0.2695	0.3580
Sb 206.834	2.1010	-2.6919u	2.7602
Se 196.026	-0.6308u	0.3165	2.3032
Sn 189.925	-3.6480u	0.3037	0.6999
Sr 216.596	668.030	666.693	669.042
Ti 334.941	-0.0625	-0.0347	-0.1089
Tl 190.794	0.4944u	0.7840u	2.0814
V 292.401	0.1589	-0.0750u	-0.2865u
Zn 206.200	8.0610	8.1852	5.6217

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0347b	ppb	0.1156	332.9	-48.1446
Al 308.215	4.4083b	ppb	0.1786	4.1	467.900
As 188.980	3.9342b	ppb	1.6791	42.7	-4.9961
B 249.678	339.823b	ppb	2.1509	0.6	5686.85
Ba 389.178	803.013b	ppb	1.6460	0.2	17040.0
Be 313.042	-0.0329b	ppb	0.0033	10.1	-311.883
Ca 370.602	139360b	ppb	448.3	0.3	371043
Cd 226.502	-0.1693b	ppb	0.0147	8.7	39.6739
Co 228.615	-0.0063b	ppb	0.1840	2927.1	-1.3182
Cr 267.716	0.1352b	ppb	0.1317	97.4	48.9036
Cu 324.754	-0.6301b	ppb	0.1018	16.2	193.151
Fe 271.441	7960.33b	ppb	21.4009	0.3	13147.5
K 766.491	64295.9xb	ppb	67.6712	0.1	2675504
Mg 279.078	40597.7b	ppb	67.8482	0.2	111023
Mn 257.610	480.247b	ppb	0.3782	0.1	97518.9
Mo 202.032	0.1728b	ppb	0.2949	170.7	6.5636
Na 330.237	34458.6b	ppb	213.672	0.6	1556.58
Ni 231.604	2.4619b	ppb	0.2565	10.4	3.1015
Pb 220.353	1.3113b	ppb	1.7283	131.8	12.6125
Sb 206.834	0.7231b	ppb	2.9758	411.5	-3.4480
Se 196.026	0.6630b	ppb	1.4974	225.8	-0.6134
Sn 189.925	-0.8815b	ppb	2.4040	272.7	-6.0061
Sr 216.596	667.922b	ppb	1.1785	0.2	8649.55
Ti 334.941	-0.0687b	ppb	0.0375	54.6	57.6985
Tl 190.794	1.1199b	ppb	0.8451	75.5	-9.1698
V 292.401	-0.0675b	ppb	0.2228	329.9	-13.2999
Zn 206.200	7.2893b	ppb	1.4456	19.8	9.3002

680-107406-a-3-a (Samp) **11/21/2014, 1:17:42 AM** **Rack 3, Tube 21**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2227u	0.2538	-0.0791u
Al 308.215	598.206	600.781	600.361
As 188.980	0.0975	1.9135	-0.3708u
B 249.678	13.9289	13.0312	12.6623
Ba 389.178	47.9851	48.0250	47.5636
Be 313.042	0.0173	0.0141	0.0110
Ca 370.602	13304	13336	13319
Cd 226.502	0.1251	0.1373	0.3085
Co 228.615	0.7834	0.3146	0.3062
Cr 267.716	1.3205	1.5548	1.3459
Cu 324.754	9.2474	9.6413	9.3892
Fe 271.441	1522.89	1514.34	1522.06
K 766.491	2906.12	2919.11	2918.95
Mg 279.078	606.343	610.938	610.541
Mn 257.610	99.8943	100.192	100.309
Mo 202.032	1.9685	1.9461	1.5599
Na 330.237	2531.84	2488.42	2610.79
Ni 231.604	2.0178	1.6104	2.8246
Pb 220.353	2.0406	5.1540	3.9887
Sb 206.834	1.7130	1.7171	-0.6544u
Se 196.026	-4.0516u	7.3357	0.5890
Sn 189.925	-0.4753u	0.4592	-1.1326u
Sr 216.596	37.4631	37.5277	37.1703
Ti 334.941	31.4172	31.6191	31.9540
Tl 190.794	0.0764u	1.1966	-0.9899u
V 292.401	3.5842	3.6894	3.9727
Zn 206.200	103.710	107.124	103.923

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0160	ppb	0.2445	1529.6	-25.3438
Al 308.215	599.783	ppb	1.3817	0.2	4508.80
As 188.980	0.5467	ppb	1.2066	220.7	-6.8485
B 249.678	13.2075	ppb	0.6514	4.9	274.496
Ba 389.178	47.8579	ppb	0.2557	0.5	960.141
Be 313.042	0.0141	ppb	0.0032	22.3	-261.843
Ca 370.602	13320	ppb	15.83	0.1	35476
Cd 226.502	0.1903	ppb	0.1025	53.9	30.6196
Co 228.615	0.4681	ppb	0.2731	58.3	4.3007
Cr 267.716	1.4071	ppb	0.1286	9.1	111.891
Cu 324.754	9.4260	ppb	0.1995	2.1	874.778
Fe 271.441	1519.76	ppb	4.7139	0.3	2523.81
K 766.491	2914.73	ppb	7.4511	0.3	121526
Mg 279.078	609.274	ppb	2.5459	0.4	1689.13
Mn 257.610	100.132	ppb	0.2139	0.2	20340.4
Mo 202.032	1.8249	ppb	0.2297	12.6	18.0763
Na 330.237	2543.68	ppb	62.0384	2.4	139.437
Ni 231.604	2.1509	ppb	0.6179	28.7	1.6201
Pb 220.353	3.7278	ppb	1.5730	42.2	15.9784
Sb 206.834	0.9252	ppb	1.3680	147.9	-3.2986
Se 196.026	1.2911	ppb	5.7260	443.5	-0.4795
Sn 189.925	-0.3829	ppb	0.7999	208.9	-5.6382
Sr 216.596	37.3871	ppb	0.1905	0.5	491.723

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	31.6634	ppb	0.2711	0.9	9409.14
Tl 190.794	0.0944	ppb	1.0934	1158.6	-9.4631
V 292.401	3.7487	ppb	0.2009	5.4	88.5690
Zn 206.200	104.919	ppb	1.9126	1.8	118.634

680-107406-c-5-a (Samp) **11/21/2014, 1:21:59 AM** **Rack 3, Tube 22**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1635u	-0.2189u	0.2603u
Al 308.215	9411.96	9441.80	9407.24
As 188.980	6.5089	7.6470	10.4165
B 249.678	46.7685	46.9963	46.7809
Ba 389.178	92.9520	93.1606	93.3460
Be 313.042	0.0490u	0.0504u	0.0479u
Ca 370.602	12109	12100	12065
Cd 226.502	0.0124u	0.0862u	0.1404
Co 228.615	9.9503	9.8470	9.6044
Cr 267.716	19.8118	19.8238	19.6339
Cu 324.754	91.2370	90.6537	90.9982
Fe 271.441	274.874	275.440	278.529
K 766.491	514250x	512365x	509917x
Mg 279.078	38.4029	39.9675	40.6288
Mn 257.610	7.2492	7.2785	7.3032
Mo 202.032	45.6986	46.3542	46.1724
Na 330.237	933573x	936048x	932015x
Ni 231.604	37.3711	36.4179	36.0018
Pb 220.353	2.4052	3.6114	2.9037
Sb 206.834	3.8093	7.3381	3.5437
Se 196.026	2.9384	5.9723	16.9013
Sn 189.925	64.4062	61.9105	64.3438
Sr 216.596	1438.13	1443.91	1441.79
Ti 334.941	4.7558	4.8053	4.7160
Tl 190.794	1.8956	0.3445	-3.1174u
V 292.401	91.7932	91.2466	91.3109
Zn 206.200	17.6123	18.0767	15.4104

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0683b	ppb	0.2534	371.0	-65.0992
Al 308.215	9420.33b	ppb	18.7374	0.2	64390.8
As 188.980	8.1908b	ppb	2.0098	24.5	-2.5930
B 249.678	46.8486b	ppb	0.1281	0.3	837.857
Ba 389.178	93.1529b	ppb	0.1971	0.2	1917.97
Be 313.042	0.0491b	ppb	0.0013	2.6	-324.191
Ca 370.602	12091b	ppb	22.95	0.2	32204
Cd 226.502	0.0797b	ppb	0.0643	80.6	15.9373
Co 228.615	9.8006b	ppb	0.1776	1.8	110.441
Cr 267.716	19.7565b	ppb	0.1063	0.5	1116.05
Cu 324.754	90.9630b	ppb	0.2932	0.3	6422.49
Fe 271.441	276.281b	ppb	1.9673	0.7	474.458
K 766.491	512177xb	ppb	2172.64	0.4	21311166
Mg 279.078	39.6664b	ppb	1.1431	2.9	130.207
Mn 257.610	7.2770b	ppb	0.0270	0.4	1550.03
Mo 202.032	46.0751b	ppb	0.3384	0.7	318.394

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	933879xb	ppb	2033.48	0.2	41481.5
Ni 231.604	36.5969b	ppb	0.7020	1.9	105.716
Pb 220.353	2.9734b	ppb	0.6061	20.4	14.4824
Sb 206.834	4.8970b	ppb	2.1182	43.3	1.5963
Se 196.026	8.6040b	ppb	7.3440	85.4	2.6436
Sn 189.925	63.5535b	ppb	1.4232	2.2	43.1082
Sr 216.596	1441.28b	ppb	2.9211	0.2	18516.4
Ti 334.941	4.7590b	ppb	0.0447	0.9	1346.18
Tl 190.794	-0.2924b	ppb	2.5665	877.6	-9.7130
V 292.401	91.4502b	ppb	0.2987	0.3	2368.87
Zn 206.200	17.0331b	ppb	1.4244	8.4	20.4270

680-107406-a-6-a (Samp) **11/21/2014, 1:26:17 AM** **Rack 3, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.2267	-0.6580	-1.4844u
Al 308.215	2228.39	2221.97	2222.59
As 188.980	1.1829	3.3933	1.9502
B 249.678	61.2358	61.4384	61.0401
Ba 389.178	434.490	434.402	434.668
Be 313.042	0.6666	0.6625	0.6675
Ca 370.602	11641	11651	11696
Cd 226.502	0.0902	0.0563	0.1622
Co 228.615	190.699	192.300	191.173
Cr 267.716	-1.2138	-1.2522	-1.5085
Cu 324.754	7.6841	7.8654	7.9766
Fe 271.441	45138.9	45160.1	45204.8
K 766.491	4297.56	4288.65	4285.89
Mg 279.078	7795.56	7795.17	7808.12
Mn 257.610	24133.6	24054.5	24096.7
Mo 202.032	-0.4370u	0.5204	0.4470
Na 330.237	17867.6	17905.6	17728.9
Ni 231.604	-0.8757	1.1650	-1.1525u
Pb 220.353	27.5774	28.7896	25.1048
Sb 206.834	2.9304	-3.6248u	-0.8902u
Se 196.026	-8.9044	-7.0478	-6.0007
Sn 189.925	-2.6883u	0.0678	-2.7782u
Sr 216.596	45.3060	45.3684	45.1252
Ti 334.941	6.1755	6.1870	6.1095
Tl 190.794	8.4858	2.8592	8.0828
V 292.401	-0.9794u	-1.0356u	-1.0828u
Zn 206.200	49.2046	48.6903	49.7390

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1230	ppb	0.4229	37.7	-3.5743
Al 308.215	2224.31	ppb	3.5396	0.2	15538.1
As 188.980	2.1755	ppb	1.1223	51.6	-6.1807
B 249.678	61.2381	ppb	0.1991	0.3	971.575
Ba 389.178	434.520	ppb	0.1356	0.0	9196.53
Be 313.042	0.6655	ppb	0.0026	0.4	917.676
Ca 370.602	11662	ppb	29.25	0.3	31198
Cd 226.502	0.1029	ppb	0.0541	52.6	186.817
Co 228.615	191.391	ppb	0.8223	0.4	2209.60

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	-1.3248	ppb	0.1602	12.1	102.403
Cu 324.754	7.8420	ppb	0.1477	1.9	784.579
Fe 271.441	45167.9	ppb	33.6632	0.1	74544.8
K 766.491	4290.70	ppb	6.0986	0.1	178778
Mg 279.078	7799.62	ppb	7.3648	0.1	20849.9
Mn 257.610	24095.0	ppb	39.6023	0.2	4873124
Mo 202.032	0.1768	ppb	0.5328	301.4	4.8454
Na 330.237	17834.0	ppb	92.9953	0.5	809.671
Ni 231.604	-0.2877	ppb	1.2657	439.9	-2.5682
Pb 220.353	27.1573	ppb	1.8780	6.9	61.9581
Sb 206.834	-0.5282	ppb	3.2925	623.3	-4.4909
Se 196.026	-7.3176	ppb	1.4705	20.1	1.3620
Sn 189.925	-1.7996	ppb	1.6178	89.9	-6.7072
Sr 216.596	45.2665	ppb	0.1263	0.3	653.522
Ti 334.941	6.1573	ppb	0.0418	0.7	1852.81
Tl 190.794	6.4760	ppb	3.1386	48.5	3.0057
V 292.401	-1.0326	ppb	0.0518	5.0	-52.2332
Zn 206.200	49.2113	ppb	0.5244	1.1	54.7925

680-107406-d-10-a (Samp) **11/21/2014, 1:30:34 AM** **Rack 3, Tube 24**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0449u	-0.1099u	-0.0657u
Al 308.215	13678.5	13657.6	13695.1
As 188.980	0.8448	5.1594	7.0842
B 249.678	11.7146	11.7876	11.7065
Ba 389.178	116.692	115.576	116.517
Be 313.042	0.4454	0.4640	0.4451
Ca 370.602	14262	14279	14257
Cd 226.502	-0.1258	-0.2037	-0.0563
Co 228.615	5.6955	5.7748	5.9845
Cr 267.716	20.2552	20.1858	20.3648
Cu 324.754	26.1729	25.6105	25.9958
Fe 271.441	20015.7	20036.3	20050.0
K 766.491	12986.0	13008.4	12974.5
Mg 279.078	5361.72	5343.30	5362.51
Mn 257.610	369.115	368.847	369.916
Mo 202.032	1.5640	1.6122	1.4382
Na 330.237	6584.71	6806.70	6996.50
Ni 231.604	8.5612	7.6708	8.5489
Pb 220.353	12.2134	12.8528	13.1059
Sb 206.834	2.3796	-1.0733u	2.8035
Se 196.026	-2.3829u	5.5970	-4.3200u
Sn 189.925	0.2032	0.1013	-0.5564u
Sr 216.596	77.0633	76.5271	77.0123
Ti 334.941	742.009	741.839	741.566
Tl 190.794	1.9505u	2.5502u	0.9102u
V 292.401	45.3058	45.1957	45.2390
Zn 206.200	401.211	397.774	402.005

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0735	ppb	0.0332	45.2	-33.0596
Al 308.215	13677.1	ppb	18.7692	0.1	93278.3

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	4.3628	ppb	3.1951	73.2	-4.8240
B 249.678	11.7362	ppb	0.0446	0.4	207.227
Ba 389.178	116.262	ppb	0.5999	0.5	2432.14
Be 313.042	0.4515	ppb	0.0108	2.4	539.213
Ca 370.602	14266	ppb	11.40	0.1	38116
Cd 226.502	-0.1286	ppb	0.0737	57.4	84.0132
Co 228.615	5.8182	ppb	0.1493	2.6	82.5548
Cr 267.716	20.2686	ppb	0.0903	0.4	1139.15
Cu 324.754	25.9264	ppb	0.2876	1.1	2004.33
Fe 271.441	20034.0	ppb	17.2780	0.1	33064.4
K 766.491	12989.6	ppb	17.2255	0.1	540727
Mg 279.078	5355.84	ppb	10.8707	0.2	14657.2
Mn 257.610	369.293	ppb	0.5563	0.2	74860.1
Mo 202.032	1.5381	ppb	0.0898	5.8	15.2145
Na 330.237	6795.97	ppb	206.104	3.0	318.329
Ni 231.604	8.2603	ppb	0.5106	6.2	21.6441
Pb 220.353	12.7240	ppb	0.4600	3.6	31.3466
Sb 206.834	1.3699	ppb	2.1265	155.2	-2.1206
Se 196.026	-0.3686	ppb	5.2564	1425.9	-0.9792
Sn 189.925	-0.0840	ppb	0.4123	491.0	-5.4104
Sr 216.596	76.8676	ppb	0.2960	0.4	1024.92
Ti 334.941	741.805	ppb	0.2234	0.0	220270
Tl 190.794	1.8036	ppb	0.8298	46.0	-10.2394
V 292.401	45.2468	ppb	0.0555	0.1	1172.76
Zn 206.200	400.330	ppb	2.2490	0.6	448.046

Cont Calib Verif (CCV) **11/21/2014, 1:34:51 AM** **Rack 3, Tube 25**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	500.930	499.122	503.745
Al 308.215	4889.18	4880.70	4888.71
As 188.980	491.161	483.261	497.974
B 249.678	489.964	489.981	493.532
Ba 389.178	5245.57	5245.14	5246.31
Be 313.042	528.678	526.994	524.953
Ca 370.602	4937	4949	4959
Cd 226.502	522.783	520.473	519.262
Co 228.615	525.611	527.289	524.375
Cr 267.716	5229.67	5213.15	5212.68
Cu 324.754	5325.68	5318.82	5392.67
Fe 271.441	4962.18	4965.95	4949.99
K 766.491	10309.3	10297.3	10326.6
Mg 279.078	4936.14	4928.73	4919.16
Mn 257.610	5327.70	5308.29	5297.36
Mo 202.032	496.181	493.556	497.109
Na 330.237	7615.44	7757.97	7703.99
Ni 231.604	2603.61	2604.86	2632.31
Pb 220.353	496.253	494.410	495.288
Sb 206.834	975.056	975.861	977.898
Se 196.026	4879.46	4882.13	4873.84
Sn 189.925	4952.40	4929.98	4905.80
Sr 216.596	2478.55	2469.92	2465.60
Ti 334.941	499.120	498.863	499.101

Label	Replicates Concentration		
Tl 190.794	4991.55	5012.58	4989.90
V 292.401	4929.64	4939.74	4934.31
Zn 206.200	2632.15	2615.37	2621.51

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	501.266	ppb	2.3296	0.5	41109.3	100.25319
Al 308.215	4886.20	ppb	4.7655	0.1	34276.0	97.72391
As 188.980	490.799	ppb	7.3634	1.5	266.187	98.15975
B 249.678	491.159	ppb	2.0549	0.4	8222.77	98.23180
Ba 389.178	5245.67	ppb	0.5925	0.0	111088	104.91347
Be 313.042	526.875	ppb	1.8655	0.4	962253	105.37502
Ca 370.602	4948	ppb	10.79	0.2	13506	98.96860
Cd 226.502	520.839	ppb	1.7891	0.3	21723.5	104.16788
Co 228.615	525.758	ppb	1.4623	0.3	6070.27	105.15169
Cr 267.716	5218.50	ppb	9.6786	0.2	281053	104.37002
Cu 324.754	5345.72	ppb	40.8002	0.8	363907	106.91444
Fe 271.441	4959.37	ppb	8.3417	0.2	8305.33	99.18749
K 766.491	10311.1	ppb	14.7411	0.1	429276	103.11070
Mg 279.078	4928.01	ppb	8.5148	0.2	13387.7	98.56015
Mn 257.610	5311.12	ppb	15.3683	0.3	1074229	106.22237
Mo 202.032	495.615	ppb	1.8431	0.4	3364.21	99.12306
Na 330.237	7692.46	ppb	71.9623	0.9	318.406	102.56620
Ni 231.604	2613.60	ppb	16.2190	0.6	7901.70	104.54385
Pb 220.353	495.317	ppb	0.9219	0.2	817.392	99.06335
Sb 206.834	976.272	ppb	1.4649	0.2	1384.86	97.62718
Se 196.026	4878.48	ppb	4.2346	0.1	2103.95	97.56955
Sn 189.925	4929.39	ppb	23.3046	0.5	3730.56	98.58780
Sr 216.596	2471.36	ppb	6.5892	0.3	31666.8	98.85427
Ti 334.941	499.028	ppb	0.1432	0.0	148184	99.80562
Tl 190.794	4998.01	ppb	12.6422	0.3	5274.96	99.96017
V 292.401	4934.57	ppb	5.0567	0.1	128872	98.69131
Zn 206.200	2623.01	ppb	8.4889	0.3	2921.51	104.92049

Cont Calib Blank (CCB) **11/21/2014, 1:39:09 AM** **Rack 3, Tube 26**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1178	-0.0251u	0.1028
Al 308.215	-0.3886u	0.6804	0.5262
As 188.980	4.4299	13.5072	-0.4284u
B 249.678	7.6708	6.6429	5.7501
Ba 389.178	0.6610	-0.0099u	0.4851
Be 313.042	0.0216	0.0354	0.0403
Ca 370.602	6.865	3.016	6.954
Cd 226.502	0.0593	0.0880	0.0760
Co 228.615	-0.0534u	0.3357	0.3360
Cr 267.716	0.1984	0.2051	0.4078
Cu 324.754	-0.4241u	-0.1630u	0.0447
Fe 271.441	0.8076	2.7770	0.5184
K 766.491	7.3719	8.0636	8.6248
Mg 279.078	-1.2035u	-1.1342u	-1.1302u
Mn 257.610	0.3306	0.5123	0.5977
Mo 202.032	0.4621	0.6858	0.6650
Na 330.237	0.0629	49.5000	-184.943u

Label	Replicates Concentration		
Ni 231.604	-0.0567u	0.9259	0.1624
Pb 220.353	0.0510	2.4764	0.4442
Sb 206.834	9.1988	4.3792	3.1710
Se 196.026	-0.6131u	6.8550	-7.9132u
Sn 189.925	-0.6996u	1.3398	2.3172
Sr 216.596	0.5399	0.1108	0.6354
Ti 334.941	0.0872	0.0903	0.0899
Tl 190.794	-2.3796u	3.3409	0.7410
V 292.401	0.0334	-0.1196u	0.2078
Zn 206.200	0.2950	-1.1547u	-1.6519u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0652	ppb	0.0785	120.5	-17.6553	0.06519
Al 308.215	0.2727	ppb	0.5779	211.9	438.942	0.27266
As 188.980	5.8362	ppb	7.0734	121.2	-3.8925	5.83621
B 249.678	6.6879	ppb	0.9611	14.4	169.733	6.68791
Ba 389.178	0.3788	ppb	0.3479	91.9	-47.9277	0.37876
Be 313.042	0.0324	ppb	0.0097	30.0	-232.625	0.03245
Ca 370.602	5.612	ppb	2.249	40.1	20.72	5.61152
Cd 226.502	0.0744	ppb	0.0144	19.3	20.3023	0.07444
Co 228.615	0.2061	ppb	0.2247	109.0	0.5298	0.20611
Cr 267.716	0.2704	ppb	0.1190	44.0	49.3889	0.27043
Cu 324.754	-0.1808	ppb	0.2349	129.9	220.528	-0.18080
Fe 271.441	1.3677	ppb	1.2290	89.9	19.1239	1.36765
K 766.491	8.0201	ppb	0.6276	7.8	581.881	8.02009
Mg 279.078	-1.1559	ppb	0.0412	3.6	22.3132	-1.15594
Mn 257.610	0.4802	ppb	0.1364	28.4	178.552	0.48020
Mo 202.032	0.6043	ppb	0.1236	20.5	9.8669	0.60429
Na 330.237	-45.1268	ppb	123.582	273.9	26.9332	-45.12683
Ni 231.604	0.3439	ppb	0.5159	150.0	-3.9737	0.34387
Pb 220.353	0.9905	ppb	1.3017	131.4	11.4423	0.99053
Sb 206.834	5.5830	ppb	3.1891	57.1	3.0314	5.58297
Se 196.026	-0.5571	ppb	7.3843	1325.5	-1.3110	-0.55710
Sn 189.925	0.9858	ppb	1.5393	156.1	-4.6017	0.98578
Sr 216.596	0.4287	ppb	0.2794	65.2	9.6420	0.42869
Ti 334.941	0.0891	ppb	0.0017	1.9	33.2071	0.08915
Tl 190.794	0.5674	ppb	2.8642	504.7	-8.7865	0.56744
V 292.401	0.0405	ppb	0.1638	404.5	-7.8912	0.04050
Zn 206.200	-0.8372	ppb	1.0115	120.8	0.5087	-0.83722

680-107406-c-15-a (Samp) **11/21/2014, 1:43:27 AM** **Rack 3, Tube 27**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0911u	0.1466	-0.0779u
Al 308.215	374.166	374.531	373.700
As 188.980	-1.5359u	3.0133	-1.7702u
B 249.678	5.1681	4.7110	4.4959
Ba 389.178	39.8754	39.5645	39.8122
Be 313.042	0.0511	0.0509	0.0495
Ca 370.602	2072	2080	2090
Cd 226.502	0.2846	0.2523	0.1395
Co 228.615	1.0589	0.5837	0.9764
Cr 267.716	0.8515	0.8664	0.7856

Label	Replicates Concentration		
Cu 324.754	0.6848	0.8636	0.8397
Fe 271.441	409.584	410.254	416.470
K 766.491	997.870	995.621	994.209
Mg 279.078	972.509	974.456	974.663
Mn 257.610	931.108	927.634	927.505
Mo 202.032	0.5723	0.3634	0.3793
Na 330.237	5461.48	5534.03	5645.25
Ni 231.604	1.2558	0.4820	0.0343
Pb 220.353	0.9253	0.1826	2.7227
Sb 206.834	-1.1248u	1.4205	-2.0030u
Se 196.026	-0.7754u	-1.3955u	1.8008
Sn 189.925	0.0303	1.1101	2.5843
Sr 216.596	14.9273	14.7452	14.6112
Ti 334.941	11.4536	11.3460	11.3495
Tl 190.794	1.6411	1.1139	0.4552
V 292.401	0.6878	0.4665	0.2455
Zn 206.200	4.9515	4.5668	5.7554

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0075	ppb	0.1336	1792.3	-19.5245
Al 308.215	374.132	ppb	0.4164	0.1	2976.60
As 188.980	-0.0976	ppb	2.6966	2763.4	-7.2011
B 249.678	4.7917	ppb	0.3433	7.2	137.217
Ba 389.178	39.7507	ppb	0.1643	0.4	788.288
Be 313.042	0.0505	ppb	0.0009	1.7	-199.827
Ca 370.602	2081	ppb	8.837	0.4	5570
Cd 226.502	0.2255	ppb	0.0762	33.8	28.0392
Co 228.615	0.8730	ppb	0.2539	29.1	8.4985
Cr 267.716	0.8345	ppb	0.0430	5.1	84.6048
Cu 324.754	0.7960	ppb	0.0971	12.2	287.144
Fe 271.441	412.103	ppb	3.7971	0.9	696.730
K 766.491	995.900	ppb	1.8459	0.2	41686.1
Mg 279.078	973.876	ppb	1.1884	0.1	2668.89
Mn 257.610	928.749	ppb	2.0439	0.2	187916
Mo 202.032	0.4383	ppb	0.1163	26.5	8.7208
Na 330.237	5546.92	ppb	92.5574	1.7	274.945
Ni 231.604	0.5907	ppb	0.6180	104.6	-3.1946
Pb 220.353	1.2769	ppb	1.3060	102.3	12.1198
Sb 206.834	-0.5691	ppb	1.7781	312.4	-5.3373
Se 196.026	-0.1234	ppb	1.6950	1373.7	-0.9197
Sn 189.925	1.2416	ppb	1.2821	103.3	-4.4061
Sr 216.596	14.7612	ppb	0.1587	1.1	195.111
Ti 334.941	11.3830	ppb	0.0612	0.5	3387.88
Tl 190.794	1.0701	ppb	0.5942	55.5	-7.8563
V 292.401	0.4666	ppb	0.2211	47.4	3.1704
Zn 206.200	5.0912	ppb	0.6065	11.9	7.1178

680-107413-a-2 (Samp) **11/21/2014, 1:47:44 AM** **Rack 3, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1554u	0.0192u	0.0932u
Al 308.215	7.2343	6.4571	6.7747
As 188.980	0.1859	-0.0370u	-3.0330u

Label	Replicates Concentration		
B 249.678	289.717	292.799	293.380
Ba 389.178	223.907	224.763	224.967
Be 313.042	-0.0202u	-0.0259u	-0.0228u
Ca 370.602	143385	143182	143348
Cd 226.502	0.1385	-0.0953	-0.1785
Co 228.615	0.7457	-0.1466u	-0.1465u
Cr 267.716	0.0684	0.3006	0.1459
Cu 324.754	-0.4393u	-0.5557u	-0.5032u
Fe 271.441	7117.69	7114.32	7139.79
K 766.491	30479.7	30458.6	30497.3
Mg 279.078	40026.4	40065.8	40083.3
Mn 257.610	603.009	603.945	604.769
Mo 202.032	-0.4084u	-0.0588u	0.3880
Na 330.237	129151x	130043x	130248x
Ni 231.604	3.2901	2.3497	2.2256
Pb 220.353	4.0868	2.3103	1.5432
Sb 206.834	1.8718	3.3818	-0.4315u
Se 196.026	-6.8125u	4.5575	-0.5166u
Sn 189.925	0.3792	-0.3215u	3.3410
Sr 216.596	600.346	600.216	607.240
Ti 334.941	-0.0340	0.0048	0.0188
Tl 190.794	2.2699	2.2072	1.3138
V 292.401	-0.1245u	-0.2441u	-0.2033u
Zn 206.200	5.4350	6.8307	5.5812

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0143b	ppb	0.1277	890.2	-43.4653
Al 308.215	6.8220b	ppb	0.3908	5.7	484.191
As 188.980	-0.9614b	ppb	1.7975	187.0	-7.7192
B 249.678	291.966b	ppb	1.9687	0.7	4893.48
Ba 389.178	224.546b	ppb	0.5625	0.3	4784.70
Be 313.042	-0.0229b	ppb	0.0029	12.5	-300.926
Ca 370.602	143305b	ppb	108.2	0.1	381558
Cd 226.502	-0.0451b	ppb	0.1644	364.5	41.1564
Co 228.615	0.1509b	ppb	0.5152	341.4	0.4196
Cr 267.716	0.1716b	ppb	0.1182	68.9	52.8983
Cu 324.754	-0.4994b	ppb	0.0583	11.7	201.690
Fe 271.441	7123.94b	ppb	13.8341	0.2	11767.9
K 766.491	30478.5b	ppb	19.3981	0.1	1268414
Mg 279.078	40058.5b	ppb	29.1396	0.1	109546
Mn 257.610	603.908b	ppb	0.8805	0.1	122521
Mo 202.032	-0.0264b	ppb	0.3992	1511.7	5.2516
Na 330.237	129814xb	ppb	583.042	0.4	5789.42
Ni 231.604	2.6218b	ppb	0.5821	22.2	3.5139
Pb 220.353	2.6468b	ppb	1.3047	49.3	14.7455
Sb 206.834	1.6074b	ppb	1.9203	119.5	-2.2517
Se 196.026	-0.9239b	ppb	5.6960	616.5	-1.2779
Sn 189.925	1.1329b	ppb	1.9441	171.6	-4.4497
Sr 216.596	602.600b	ppb	4.0182	0.7	7810.94
Ti 334.941	-0.0035b	ppb	0.0273	790.3	68.3754
Tl 190.794	1.9303b	ppb	0.5348	27.7	-8.1233
V 292.401	-0.1907b	ppb	0.0608	31.9	-16.8729
Zn 206.200	5.9490b	ppb	0.7671	12.9	7.8332

680-107413-a-4-a (Samp) **11/21/2014, 1:52:01 AM** **Rack 3, Tube 29**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0237u	-0.0215u	-0.1433u
Al 308.215	4.8281	5.2170	5.8856
As 188.980	2.7126	2.2785	-1.5972u
B 249.678	372.126	371.727	374.070
Ba 389.178	1344.15	1343.01	1342.76
Be 313.042	-0.0156	-0.0127	-0.0191u
Ca 370.602	140657	141204	141526
Cd 226.502	-0.0165	-0.1454	0.0346
Co 228.615	-0.3821u	-0.5822u	-0.2279u
Cr 267.716	0.0401	0.0669	0.1330
Cu 324.754	-0.5688u	-0.7294u	-0.3141u
Fe 271.441	13742.2	13720.3	13746.3
K 766.491	102721x	102514x	102525x
Mg 279.078	43097.9	43088.1	43131.5
Mn 257.610	384.200	382.628	382.866
Mo 202.032	0.8094	0.0391u	0.3299
Na 330.237	115904x	115479x	115364x
Ni 231.604	3.2448	2.8264	3.2589
Pb 220.353	3.2582	1.8030	0.9554
Sb 206.834	2.3765	2.8859	-1.2968u
Se 196.026	5.0333	-4.3749u	1.0623
Sn 189.925	-2.0197u	-1.0491u	-1.0912u
Sr 216.596	686.628	685.872	685.331
Ti 334.941	-0.0840	-0.0960	-0.0541
Tl 190.794	-0.4260u	-0.9056u	-3.5405u
V 292.401	-0.1615u	-0.2154u	-0.1395u
Zn 206.200	8.2851	7.1195	3.9999

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0628b	ppb	0.0697	110.9	-52.5111
Al 308.215	5.3102b	ppb	0.5349	10.1	474.690
As 188.980	1.1313b	ppb	2.3729	209.7	-6.5897
B 249.678	372.641b	ppb	1.2537	0.3	6218.94
Ba 389.178	1343.31b	ppb	0.7447	0.1	28494.2
Be 313.042	-0.0158b	ppb	0.0032	20.3	-291.232
Ca 370.602	141129b	ppb	439.5	0.3	375695
Cd 226.502	-0.0424b	ppb	0.0928	218.7	65.6366
Co 228.615	-0.3974b	ppb	0.1777	44.7	-5.4146
Cr 267.716	0.0800b	ppb	0.0478	59.8	49.7783
Cu 324.754	-0.5374b	ppb	0.2094	39.0	201.787
Fe 271.441	13736.3b	ppb	13.9911	0.1	22675.0
K 766.491	102587xb	ppb	116.658	0.1	4268722
Mg 279.078	43105.8b	ppb	22.7783	0.1	117883
Mn 257.610	383.231b	ppb	0.8472	0.2	77932.6
Mo 202.032	0.3928b	ppb	0.3890	99.0	7.7859
Na 330.237	115583xb	ppb	284.525	0.2	5156.26
Ni 231.604	3.1100b	ppb	0.2457	7.9	5.5462
Pb 220.353	2.0056b	ppb	1.1647	58.1	14.1149
Sb 206.834	1.3219b	ppb	2.2821	172.6	-2.5342
Se 196.026	0.5736b	ppb	4.7231	823.4	-0.6235
Sn 189.925	-1.3866b	ppb	0.5486	39.6	-6.3636
Sr 216.596	685.944b	ppb	0.6514	0.1	8889.67

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	-0.0780b	ppb	0.0216	27.6	53.6648
Tl 190.794	-1.6240b	ppb	1.6769	103.3	-12.9864
V 292.401	-0.1721b	ppb	0.0391	22.7	-18.7341
Zn 206.200	6.4682b	ppb	2.2156	34.3	8.1723

CRI (Samp) **11/21/2014, 1:56:19 AM** **Rack 3, Tube 30**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.6583	10.3286	10.3766
Al 308.215	203.200	199.835	200.842
As 188.980	26.0746	22.7722	24.4450
B 249.678	105.887	105.729	105.370
Ba 389.178	10.9344	9.8258	10.9541
Be 313.042	4.4646	4.4157	4.4216
Ca 370.602	531.1	527.2	532.8
Cd 226.502	5.2810	5.1614	5.1472
Co 228.615	10.8181	10.5799	10.7115
Cr 267.716	10.8227	10.7261	10.7809
Cu 324.754	21.5354	21.6955	21.6972
Fe 271.441	58.9955	60.7167	57.6017
K 766.491	1062.17	1054.51	1054.43
Mg 279.078	514.893	515.780	512.738
Mn 257.610	11.7750	11.6598	11.6865
Mo 202.032	10.3040	10.2144	10.2241
Na 330.237	986.295	1086.03	1022.91
Ni 231.604	44.2579	43.6787	43.6568
Pb 220.353	14.5816	11.0855	11.6966
Sb 206.834	19.9708	22.1782	21.8801
Se 196.026	16.7255	23.3124	12.1529
Sn 189.925	50.0133	51.7544	49.7628
Sr 216.596	9.8659	10.2879	9.8066
Ti 334.941	10.3930	10.3523	10.3177
Tl 190.794	28.0888	25.7974	28.1931
V 292.401	10.9354	10.6052	10.4074
Zn 206.200	22.8879	21.1859	23.6629

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.4545	ppb	0.1781	1.7	835.524
Al 308.215	201.293	ppb	1.7272	0.9	1804.97
As 188.980	24.4306	ppb	1.6512	6.8	6.4659
B 249.678	105.662	ppb	0.2646	0.3	1814.42
Ba 389.178	10.5714	ppb	0.6458	6.1	169.106
Be 313.042	4.4340	ppb	0.0267	0.6	7806.00
Ca 370.602	530.4	ppb	2.863	0.5	1422
Cd 226.502	5.1965	ppb	0.0735	1.4	233.782
Co 228.615	10.7032	ppb	0.1193	1.1	121.590
Cr 267.716	10.7766	ppb	0.0485	0.4	615.161
Cu 324.754	21.6427	ppb	0.0929	0.4	1705.63
Fe 271.441	59.1047	ppb	1.5604	2.6	115.713
K 766.491	1057.03	ppb	4.4448	0.4	44229.7
Mg 279.078	514.470	ppb	1.5648	0.3	1431.90
Mn 257.610	11.7071	ppb	0.0603	0.5	2452.89
Mo 202.032	10.2475	ppb	0.0492	0.5	75.3075

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	1031.74	ppb	50.4494	4.9	74.2668
Ni 231.604	43.8645	ppb	0.3409	0.8	127.679
Pb 220.353	12.4546	ppb	1.8672	15.0	30.0138
Sb 206.834	21.3430	ppb	1.1977	5.6	24.5021
Se 196.026	17.3969	ppb	5.6100	32.2	6.4346
Sn 189.925	50.5102	ppb	1.0848	2.1	32.9324
Sr 216.596	9.9868	ppb	0.2624	2.6	131.278
Ti 334.941	10.3543	ppb	0.0377	0.4	3081.94
Tl 190.794	27.3598	ppb	1.3540	4.9	19.5003
V 292.401	10.6493	ppb	0.2668	2.5	267.609
Zn 206.200	22.5789	ppb	1.2671	5.6	26.6525

mb 680-359723/1-a (Samp) **11/21/2014, 2:00:36 AM** **Rack 3, Tube 31**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.0326u	-0.1237u	-0.3488u
Al 308.215	-0.3997u	0.3245	-0.1260u
As 188.980	0.1024	-3.6608u	3.1707
B 249.678	3.4947	2.5470	2.3694
Ba 389.178	-0.2809u	0.6022	-0.1139u
Be 313.042	0.0100	0.0093	0.0096
Ca 370.602	6.342	10.06	10.45
Cd 226.502	0.0358	0.0506	0.0988
Co 228.615	0.3289	0.2134	-0.2680u
Cr 267.716	0.1274	-0.1221u	-0.0266u
Cu 324.754	-0.4324u	-0.5717u	-0.2432u
Fe 271.441	2.7383	5.8393	4.4419
K 766.491	6.0072	6.2733	6.7033
Mg 279.078	2.1669	3.6373	2.6374
Mn 257.610	0.1121	0.1726	0.1895
Mo 202.032	0.2934	0.6196	0.6193
Na 330.237	31.7820	-130.197u	-104.975u
Ni 231.604	-0.3538u	0.9057	-0.0467u
Pb 220.353	-0.2396u	0.2838	0.7445
Sb 206.834	-1.6256u	1.1774	2.1253
Se 196.026	7.8030	-0.9233u	-6.2506u
Sn 189.925	1.1357	-0.2802u	4.0350
Sr 216.596	0.4151	-0.0733u	0.0929
Ti 334.941	-0.1235u	-0.0916u	-0.1321u
Tl 190.794	3.1809	2.4098	1.0872
V 292.401	-0.0350u	-0.1897u	-0.2447u
Zn 206.200	0.9072	-0.1366u	1.5472

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1684	ppb	0.1628	96.7	-36.8390
Al 308.215	-0.0671	ppb	0.3657	545.1	436.602
As 188.980	-0.1292	ppb	3.4216	2647.4	-7.2165
B 249.678	2.8037	ppb	0.6049	21.6	105.139
Ba 389.178	0.0691	ppb	0.4691	678.6	-54.4829
Be 313.042	0.0097	ppb	0.0004	3.7	-274.261
Ca 370.602	8.949	ppb	2.266	25.3	29.50
Cd 226.502	0.0617	ppb	0.0330	53.4	19.7768
Co 228.615	0.0915	ppb	0.3166	346.2	-0.7958

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	-0.0071	ppb	0.1259	1778.5	34.4447
Cu 324.754	-0.4158	ppb	0.1649	39.7	204.540
Fe 271.441	4.3398	ppb	1.5530	35.8	24.0123
K 766.491	6.3279	ppb	0.3512	5.6	511.473
Mg 279.078	2.8139	ppb	0.7509	26.7	33.1756
Mn 257.610	0.1581	ppb	0.0407	25.8	113.427
Mo 202.032	0.5108	ppb	0.1883	36.9	9.2322
Na 330.237	-67.7965	ppb	87.1547	128.6	25.9060
Ni 231.604	0.1684	ppb	0.6567	390.0	-4.5043
Pb 220.353	0.2629	ppb	0.4924	187.3	10.2629
Sb 206.834	0.5590	ppb	1.9504	348.9	-3.8186
Se 196.026	0.2097	ppb	7.0950	3383.4	-0.9803
Sn 189.925	1.6302	ppb	2.1997	134.9	-4.1133
Sr 216.596	0.1449	ppb	0.2484	171.4	6.0120
Ti 334.941	-0.1157	ppb	0.0213	18.4	-27.6242
Tl 190.794	2.2259	ppb	1.0589	47.6	-7.0367
V 292.401	-0.1565	ppb	0.1087	69.5	-13.0159
Zn 206.200	0.7726	ppb	0.8500	110.0	2.3083

lcs 680-359723/2-a (Samp) **11/21/2014, 2:04:53 AM** **Rack 3, Tube 32**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	21.7374	21.2965	21.4195
Al 308.215	2003.12	2002.43	1999.23
As 188.980	44.8013	40.9363	45.3543
B 249.678	80.3266	81.0303	81.3905
Ba 389.178	43.0078	42.4177	43.4281
Be 313.042	21.9526	21.9099	21.9509
Ca 370.602	2021	2005	2013
Cd 226.502	21.4692	21.5466	21.5149
Co 228.615	22.1052	21.9303	21.6381
Cr 267.716	42.9154	43.2775	43.2678
Cu 324.754	43.5081	43.1458	43.4918
Fe 271.441	2036.05	2033.55	2034.65
K 766.491	2096.70	2091.73	2094.95
Mg 279.078	2037.00	2034.26	2027.60
Mn 257.610	222.090	221.588	221.687
Mo 202.032	39.4075	40.0749	40.1271
Na 330.237	1916.81	2019.63	2008.49
Ni 231.604	42.3427	42.0358	41.9618
Pb 220.353	201.969	202.396	202.847
Sb 206.834	21.2216	23.8998	23.0293
Se 196.026	32.6838	37.1106	40.1596
Sn 189.925	81.8004	81.6012	79.5816
Sr 216.596	40.0913	39.6527	40.4010
Ti 334.941	40.8335	40.8809	40.8237
Tl 190.794	16.2428	16.6484	15.7164
V 292.401	40.7939	40.7582	40.5941
Zn 206.200	42.4020	42.7492	44.9481

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.4845	ppb	0.2275	1.1	1741.36
Al 308.215	2001.59	ppb	2.0790	0.1	14029.4

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	43.6973	ppb	2.4071	5.5	17.1834
B 249.678	80.9158	ppb	0.5411	0.7	1398.68
Ba 389.178	42.9512	ppb	0.5076	1.2	859.638
Be 313.042	21.9378	ppb	0.0242	0.1	39774.7
Ca 370.602	2013	ppb	8.000	0.4	5369
Cd 226.502	21.5102	ppb	0.0389	0.2	920.326
Co 228.615	21.8912	ppb	0.2360	1.1	250.691
Cr 267.716	43.1536	ppb	0.2063	0.5	2360.43
Cu 324.754	43.3819	ppb	0.2046	0.5	3186.26
Fe 271.441	2034.75	ppb	1.2530	0.1	3376.21
K 766.491	2094.46	ppb	2.5196	0.1	87395.4
Mg 279.078	2032.96	ppb	4.8335	0.2	5578.88
Mn 257.610	221.789	ppb	0.2658	0.1	44955.3
Mo 202.032	39.8698	ppb	0.4012	1.0	276.248
Na 330.237	1981.64	ppb	56.4222	2.8	115.592
Ni 231.604	42.1134	ppb	0.2019	0.5	122.521
Pb 220.353	202.404	ppb	0.4392	0.2	338.039
Sb 206.834	22.7169	ppb	1.3662	6.0	26.3396
Se 196.026	36.6513	ppb	3.7590	10.3	14.8002
Sn 189.925	80.9944	ppb	1.2276	1.5	56.0362
Sr 216.596	40.0483	ppb	0.3760	0.9	520.361
Ti 334.941	40.8461	ppb	0.0306	0.1	12138.3
Tl 190.794	16.2025	ppb	0.4673	2.9	7.5085
V 292.401	40.7154	ppb	0.1065	0.3	1047.14
Zn 206.200	43.3665	ppb	1.3807	3.2	49.7426

680-107449-d-1-a (Samp) **11/21/2014, 2:09:11 AM** **Rack 3, Tube 33**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2132u	-0.4451u	-0.2846u
Al 308.215	906.472	909.423	906.080
As 188.980	4.5736	2.2121	-1.0894u
B 249.678	10.0881	10.0309	9.6848
Ba 389.178	166.577	166.128	166.002
Be 313.042	0.0278	0.0246	0.0323
Ca 370.602	76438	75969	76239
Cd 226.502	-0.0257	0.1525	-0.0570
Co 228.615	1.4617	1.6865	1.5259
Cr 267.716	5.4817	5.2929	5.2783
Cu 324.754	10.1924	10.1220	10.2179
Fe 271.441	1802.30	1794.93	1791.41
K 766.491	7163.69	7146.90	7147.09
Mg 279.078	28340.9	28331.0	28321.7
Mn 257.610	323.029	322.783	322.620
Mo 202.032	5.1883	4.9168	4.8250
Na 330.237	38332.0	38398.3	38271.4
Ni 231.604	18.3511	18.8348	17.5260
Pb 220.353	4.4726	5.6652	5.5881
Sb 206.834	0.5937	1.3139	-3.1686u
Se 196.026	-1.6635u	-1.7591u	3.5987
Sn 189.925	-2.0999u	2.1594	-1.8753u
Sr 216.596	615.545	615.440	614.445
Ti 334.941	64.0129	64.1850	63.7177

Label	Replicates Concentration		
Tl 190.794	0.3066	-1.7320u	2.2830
V 292.401	3.5885	3.4154	3.7645
Zn 206.200	182.362	179.990	181.786

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3143	ppb	0.1188	37.8	-68.6265
Al 308.215	907.325	ppb	1.8275	0.2	6596.36
As 188.980	1.8988	ppb	2.8445	149.8	-6.0974
B 249.678	9.9346	ppb	0.2182	2.2	219.506
Ba 389.178	166.235	ppb	0.3024	0.2	3522.56
Be 313.042	0.0282	ppb	0.0039	13.6	-219.680
Ca 370.602	76215	ppb	235.4	0.3	202977
Cd 226.502	0.0233	ppb	0.1130	486.0	24.7928
Co 228.615	1.5580	ppb	0.1158	7.4	17.5218
Cr 267.716	5.3510	ppb	0.1134	2.1	326.270
Cu 324.754	10.1774	ppb	0.0497	0.5	926.126
Fe 271.441	1796.21	ppb	5.5581	0.3	2979.96
K 766.491	7152.56	ppb	9.6426	0.1	297855
Mg 279.078	28331.2	ppb	9.6176	0.0	77485.5
Mn 257.610	322.811	ppb	0.2061	0.1	65573.8
Mo 202.032	4.9767	ppb	0.1889	3.8	39.4565
Na 330.237	38333.9	ppb	63.4916	0.2	1726.55
Ni 231.604	18.2373	ppb	0.6617	3.6	50.3108
Pb 220.353	5.2420	ppb	0.6674	12.7	18.4759
Sb 206.834	-0.4203	ppb	2.4072	572.7	-5.1287
Se 196.026	0.0587	ppb	3.0661	5225.3	-0.9603
Sn 189.925	-0.6053	ppb	2.3969	396.0	-5.7956
Sr 216.596	615.143	ppb	0.6070	0.1	7936.69
Ti 334.941	63.9719	ppb	0.2363	0.4	19049.1
Tl 190.794	0.2859	ppb	2.0076	702.3	-9.1992
V 292.401	3.5895	ppb	0.1746	4.9	83.8439
Zn 206.200	181.379	ppb	1.2369	0.7	204.062

680-107449-d-1-aSD^5 (Samp) **11/21/2014, 2:13:28 AM** **Rack 3, Tube 34**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1358u	-0.0362u	-0.0463u
Al 308.215	179.188	177.178	179.315
As 188.980	1.4755	3.1955	-1.6979u
B 249.678	2.1455	1.5060	1.7188
Ba 389.178	34.2752	33.8139	33.3112
Be 313.042	0.0102	0.0079	0.0129
Ca 370.602	15255	15213	15158
Cd 226.502	-0.0284	0.0419	-0.1056u
Co 228.615	0.9480	0.4961	0.0121
Cr 267.716	1.0269	1.1055	0.9845
Cu 324.754	1.4828	1.6602	1.8396
Fe 271.441	370.736	365.430	367.436
K 766.491	1326.20	1327.36	1318.99
Mg 279.078	5621.89	5611.67	5571.12
Mn 257.610	65.1185	65.1100	64.7836
Mo 202.032	0.7716	0.7364	1.5587
Na 330.237	7044.61	7199.92	7184.28

Label	Replicates Concentration		
Ni 231.604	3.9939	5.3117	3.9700
Pb 220.353	3.2303	2.7344	4.6887
Sb 206.834	-0.5314u	2.0448	-0.2613u
Se 196.026	-1.0041u	0.6725	0.0392
Sn 189.925	-1.2391u	-0.3546u	0.8440
Sr 216.596	126.553	126.361	124.451
Ti 334.941	12.8303	12.8373	12.9203
Tl 190.794	2.3463	0.0035u	-0.6174u
V 292.401	0.7223	0.5633	0.6420
Zn 206.200	37.3285	34.4148	39.0914

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0728	ppb	0.0548	75.3	-33.0280
Al 308.215	178.561	ppb	1.1988	0.7	1649.21
As 188.980	0.9910	ppb	2.4824	250.5	-6.5944
B 249.678	1.7901	ppb	0.3256	18.2	87.4546
Ba 389.178	33.8001	ppb	0.4822	1.4	671.341
Be 313.042	0.0103	ppb	0.0025	24.0	-268.848
Ca 370.602	15209	ppb	48.72	0.3	40509
Cd 226.502	-0.0307	ppb	0.0738	240.2	17.2714
Co 228.615	0.4854	ppb	0.4681	96.4	4.0391
Cr 267.716	1.0390	ppb	0.0614	5.9	91.4293
Cu 324.754	1.6609	ppb	0.1784	10.7	345.991
Fe 271.441	367.867	ppb	2.6791	0.7	623.709
K 766.491	1324.18	ppb	4.5335	0.3	55345.5
Mg 279.078	5601.56	ppb	26.8547	0.5	15340.6
Mn 257.610	65.0040	ppb	0.1909	0.3	13268.8
Mo 202.032	1.0222	ppb	0.4649	45.5	12.6857
Na 330.237	7142.94	ppb	85.5104	1.2	345.173
Ni 231.604	4.4252	ppb	0.7678	17.4	8.4045
Pb 220.353	3.5512	ppb	1.0159	28.6	15.6223
Sb 206.834	0.4174	ppb	1.4158	339.2	-4.0030
Se 196.026	-0.0975	ppb	0.8467	868.6	-1.0957
Sn 189.925	-0.2499	ppb	1.0455	418.4	-5.5359
Sr 216.596	125.788	ppb	1.1620	0.9	1626.03
Ti 334.941	12.8626	ppb	0.0501	0.4	3835.39
Tl 190.794	0.5775	ppb	1.5630	270.7	-8.7990
V 292.401	0.6425	ppb	0.0795	12.4	7.7092
Zn 206.200	36.9449	ppb	2.3618	6.4	42.7158

680-107449-d-1-aPDS (Samp) **11/21/2014, 2:17:46 AM** **Rack 3, Tube 35**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	104.964	106.080	105.224
Al 308.215	1968.08	1963.55	1969.70
As 188.980	109.934	104.572	117.478
B 249.678	211.900	214.042	215.203
Ba 389.178	259.642	259.496	259.472
Be 313.042	109.785	109.761	109.739
Ca 370.602	85904	85511	85533
Cd 226.502	105.809	105.775	106.019
Co 228.615	108.511	108.322	109.367
Cr 267.716	114.185	113.674	114.228

Label	Replicates Concentration		
Cu 324.754	120.305	122.196	120.778
Fe 271.441	11960.0	11946.8	11967.1
K 766.491	18471.1	18487.6	18449.8
Mg 279.078	37877.2	37850.6	37966.9
Mn 257.610	1431.03	1432.75	1436.85
Mo 202.032	105.532	105.890	106.023
Na 330.237	47708.9	47874.7	47965.7
Ni 231.604	124.372	122.564	123.186
Pb 220.353	103.102	105.517	108.771
Sb 206.834	102.561	100.568	106.373
Se 196.026	105.384	99.6415	106.382
Sn 189.925	99.2484	98.6091	100.338
Sr 216.596	701.299	701.190	705.417
Ti 334.941	167.873	167.043	167.350
Tl 190.794	24.3295	21.9558	23.8086
V 292.401	107.126	106.967	107.048
Zn 206.200	281.896	287.117	287.945

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	105.423	ppb	0.5837	0.6	8618.23
Al 308.215	1967.11	ppb	3.1838	0.2	13806.4
As 188.980	110.661	ppb	6.4840	5.9	54.4258
B 249.678	213.715	ppb	1.6757	0.8	3583.51
Ba 389.178	259.537	ppb	0.0920	0.0	5525.94
Be 313.042	109.762	ppb	0.0230	0.0	200202
Ca 370.602	85650	ppb	221.0	0.3	228071
Cd 226.502	105.868	ppb	0.1323	0.1	4469.55
Co 228.615	108.733	ppb	0.5567	0.5	1254.37
Cr 267.716	114.029	ppb	0.3082	0.3	6187.66
Cu 324.754	121.093	ppb	0.9838	0.8	8479.27
Fe 271.441	11958.0	ppb	10.2794	0.1	19755.8
K 766.491	18469.5	ppb	18.9487	0.1	768736
Mg 279.078	37898.3	ppb	60.9159	0.2	103621
Mn 257.610	1433.54	ppb	2.9864	0.2	290301
Mo 202.032	105.815	ppb	0.2541	0.2	723.322
Na 330.237	47849.8	ppb	130.198	0.3	2144.66
Ni 231.604	123.374	ppb	0.9186	0.7	369.000
Pb 220.353	105.797	ppb	2.8444	2.7	182.241
Sb 206.834	103.167	ppb	2.9496	2.9	136.061
Se 196.026	103.803	ppb	3.6381	3.5	44.1059
Sn 189.925	99.3986	ppb	0.8743	0.9	69.9990
Sr 216.596	702.635	ppb	2.4098	0.3	9073.94
Ti 334.941	167.422	ppb	0.4195	0.3	49782.4
Tl 190.794	23.3646	ppb	1.2476	5.3	14.2824
V 292.401	107.047	ppb	0.0796	0.1	2765.33
Zn 206.200	285.653	ppb	3.2797	1.1	319.988

680-107449-d-1-b ms (Samp) **11/21/2014, 2:22:03 AM** **Rack 3, Tube 36**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	21.3067	21.4811	21.2575
Al 308.215	2951.13	2950.45	2950.69
As 188.980	41.1625	42.1825	49.0148

Label	Replicates Concentration		
B 249.678	90.5693	90.6176	90.7875
Ba 389.178	203.893	206.057	205.188
Be 313.042	21.5959	21.6144	21.5823
Ca 370.602	77043	77392	77214
Cd 226.502	20.7274	20.8314	20.7629
Co 228.615	22.3305	22.4707	22.4471
Cr 267.716	46.9519	47.5171	47.1528
Cu 324.754	53.2572	54.0997	53.5579
Fe 271.441	3772.18	3775.83	3780.66
K 766.491	9329.10	9316.62	9332.98
Mg 279.078	29917.0	29878.5	29874.4
Mn 257.610	529.048	528.355	526.732
Mo 202.032	43.4140	43.5424	43.1507
Na 330.237	40015.1	39368.3	39293.2
Ni 231.604	58.8851	57.9000	58.0378
Pb 220.353	199.366	202.516	197.854
Sb 206.834	17.1710	23.2204	24.0678
Se 196.026	48.6186	38.5033	41.2634
Sn 189.925	77.2125	77.9317	77.5338
Sr 216.596	644.300	642.711	640.543
Ti 334.941	102.930	103.018	103.269
Tl 190.794	15.1106	15.1224	17.4574
V 292.401	43.8477	43.8933	43.8821
Zn 206.200	220.147	219.268	222.975

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.3484	ppb	0.1175	0.6	1710.77
Al 308.215	2950.76	ppb	0.3441	0.0	20472.5
As 188.980	44.1199	ppb	4.2696	9.7	17.4086
B 249.678	90.6581	ppb	0.1146	0.1	1556.54
Ba 389.178	205.046	ppb	1.0892	0.5	4349.43
Be 313.042	21.5975	ppb	0.0161	0.1	39173.5
Ca 370.602	77216	ppb	174.8	0.2	205644
Cd 226.502	20.7739	ppb	0.0529	0.3	896.092
Co 228.615	22.4161	ppb	0.0751	0.3	258.126
Cr 267.716	47.2073	ppb	0.2865	0.6	2581.91
Cu 324.754	53.6383	ppb	0.4270	0.8	3884.88
Fe 271.441	3776.22	ppb	4.2561	0.1	6248.90
K 766.491	9326.23	ppb	8.5496	0.1	388299
Mg 279.078	29890.0	ppb	23.4847	0.1	81742.5
Mn 257.610	528.045	ppb	1.1890	0.2	107096
Mo 202.032	43.3690	ppb	0.1997	0.5	299.914
Na 330.237	39558.9	ppb	396.936	1.0	1779.74
Ni 231.604	58.2743	ppb	0.5334	0.9	171.561
Pb 220.353	199.912	ppb	2.3786	1.2	334.135
Sb 206.834	21.4864	ppb	3.7612	17.5	24.6874
Se 196.026	42.7951	ppb	5.2287	12.2	17.5309
Sn 189.925	77.5593	ppb	0.3603	0.5	53.4446
Sr 216.596	642.518	ppb	1.8860	0.3	8289.55
Ti 334.941	103.072	ppb	0.1758	0.2	30661.4
Tl 190.794	15.8968	ppb	1.3515	8.5	7.0703
V 292.401	43.8744	ppb	0.0238	0.1	1128.90
Zn 206.200	220.797	ppb	1.9368	0.9	247.951

Cont Calib Verif (CCV) **11/21/2014, 2:26:20 AM** **Rack 3, Tube 37**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	505.093	499.733	498.608
Al 308.215	4876.49	4875.21	4867.26
As 188.980	491.677	486.672	488.343
B 249.678	487.473	490.351	490.504
Ba 389.178	5234.17	5246.54	5229.07
Be 313.042	523.588	527.815	524.313
Ca 370.602	4937	4939	4921
Cd 226.502	517.225	518.439	517.746
Co 228.615	523.761	524.944	522.113
Cr 267.716	5193.20	5204.61	5199.09
Cu 324.754	5354.92	5298.92	5309.35
Fe 271.441	4922.89	4950.00	4924.00
K 766.491	10307.7	10329.1	10299.9
Mg 279.078	4904.90	4911.69	4901.58
Mn 257.610	5264.38	5288.91	5265.65
Mo 202.032	492.779	492.611	492.605
Na 330.237	7618.19	7567.54	7646.47
Ni 231.604	2572.10	2609.41	2599.66
Pb 220.353	491.608	492.669	488.474
Sb 206.834	966.313	970.544	968.891
Se 196.026	4861.29	4841.17	4829.89
Sn 189.925	4904.48	4849.11	4850.82
Sr 216.596	2454.80	2474.53	2455.58
Ti 334.941	498.924	499.779	497.984
Tl 190.794	4980.23	4976.04	4983.59
V 292.401	4931.64	4937.56	4909.22
Zn 206.200	2588.32	2604.87	2593.66

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	501.145	ppb	3.4653	0.7	41099.5	100.22896
Al 308.215	4872.99	ppb	4.9981	0.1	34184.7	97.45974
As 188.980	488.897	ppb	2.5481	0.5	265.129	97.77950
B 249.678	489.443	ppb	1.7076	0.3	8194.22	97.88853
Ba 389.178	5236.59	ppb	8.9814	0.2	110896	104.73184
Be 313.042	525.239	ppb	2.2605	0.4	959265	105.04781
Ca 370.602	4932	ppb	10.09	0.2	13463	98.64682
Cd 226.502	517.803	ppb	0.6090	0.1	21597.0	103.56069
Co 228.615	523.606	ppb	1.4216	0.3	6045.50	104.72117
Cr 267.716	5198.97	ppb	5.7055	0.1	280001	103.97935
Cu 324.754	5321.06	ppb	29.7793	0.6	362229	106.42124
Fe 271.441	4932.30	ppb	15.3389	0.3	8260.27	98.64597
K 766.491	10312.2	ppb	15.1124	0.1	429324	103.12224
Mg 279.078	4906.05	ppb	5.1542	0.1	13328.5	98.12109
Mn 257.610	5272.98	ppb	13.8077	0.3	1066515	105.45956
Mo 202.032	492.665	ppb	0.0991	0.0	3344.20	98.53298
Na 330.237	7610.73	ppb	39.9850	0.5	315.270	101.47644
Ni 231.604	2593.72	ppb	19.3521	0.7	7841.58	103.74892
Pb 220.353	490.917	ppb	2.1811	0.4	810.238	98.18343
Sb 206.834	968.582	ppb	2.1321	0.2	1374.13	96.85822
Se 196.026	4844.11	ppb	15.9071	0.3	2089.12	96.88229
Sn 189.925	4868.14	ppb	31.4897	0.6	3684.14	97.36273
Sr 216.596	2461.64	ppb	11.1743	0.5	31542.6	98.46550

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ti 334.941	498.896	ppb	0.8981	0.2	148145	99.77919
Tl 190.794	4979.95	ppb	3.7850	0.1	5255.88	99.59908
V 292.401	4926.14	ppb	14.9453	0.3	128653	98.52280
Zn 206.200	2595.62	ppb	8.4462	0.3	2890.94	103.82463

Cont Calib Blank (CCB) **11/21/2014, 2:30:38 AM** **Rack 3, Tube 38**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2512	-0.0665u	-0.0019u
Al 308.215	-0.6982u	-0.4119u	-2.3445u
As 188.980	-0.2916u	1.5828	-1.2307u
B 249.678	8.0576	7.1868	6.1521
Ba 389.178	-0.0062u	-0.1870u	1.0259
Be 313.042	0.0224	0.0220	0.0317
Ca 370.602	7.034	5.332	8.581
Cd 226.502	-0.0706u	0.0476	0.0285
Co 228.615	0.2029	0.0416	0.1374
Cr 267.716	0.0846	0.2712	-0.0372u
Cu 324.754	-0.4276u	-0.4111u	-0.0397u
Fe 271.441	0.2483	0.6427	-3.0642u
K 766.491	2.7754	3.8030	3.0533
Mg 279.078	-1.7848u	0.0528	-0.4952u
Mn 257.610	0.1607	0.2833	0.2680
Mo 202.032	0.9483	0.3232	0.1657
Na 330.237	-187.673u	97.5093	94.1765
Ni 231.604	-0.3812u	0.1806	0.2304
Pb 220.353	-0.1059u	3.2696	-1.3295u
Sb 206.834	6.3577	3.9118	2.7779
Se 196.026	7.1767	-2.5440u	-2.8697u
Sn 189.925	-0.8143u	1.0083	2.0339
Sr 216.596	0.0938	-0.0062u	0.3121
Ti 334.941	0.1062	0.1165	0.0641
Tl 190.794	5.3263	4.0180	2.5826
V 292.401	-0.0452u	0.0971	0.1139
Zn 206.200	-1.3008u	0.2102	-0.5116u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0609	ppb	0.1679	275.6	-17.9909	0.06093
Al 308.215	-1.1515	ppb	1.0430	90.6	429.278	-1.15155
As 188.980	0.0201	ppb	1.4325	7110.2	-7.1332	0.02015
B 249.678	7.1322	ppb	0.9539	13.4	177.106	7.13217
Ba 389.178	0.2776	ppb	0.6544	235.8	-50.0751	0.27755
Be 313.042	0.0253	ppb	0.0055	21.6	-245.620	0.02533
Ca 370.602	6.982	ppb	1.625	23.3	24.41	6.98223
Cd 226.502	0.0018	ppb	0.0635	3467.9	17.2586	0.00183
Co 228.615	0.1273	ppb	0.0812	63.8	-0.3795	0.12729
Cr 267.716	0.1062	ppb	0.1553	146.3	40.5416	0.10618
Cu 324.754	-0.2928	ppb	0.2194	74.9	212.902	-0.29281
Fe 271.441	-0.7244	ppb	2.0359	281.0	15.6655	-0.72440
K 766.491	3.2106	ppb	0.5315	16.6	381.764	3.21056
Mg 279.078	-0.7424	ppb	0.9434	127.1	23.4496	-0.74239
Mn 257.610	0.2373	ppb	0.0668	28.2	129.421	0.23732
Mo 202.032	0.4791	ppb	0.4139	86.4	9.0173	0.47910

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Na 330.237	1.3377	ppb	163.696	12237.3	28.9897	1.33768
Ni 231.604	0.0100	ppb	0.3396	3410.0	-4.9843	0.00996
Pb 220.353	0.6114	ppb	2.3819	389.6	10.8272	0.61139
Sb 206.834	4.3491	ppb	1.8295	42.1	1.3480	4.34913
Se 196.026	0.5877	ppb	5.7086	971.4	-0.8174	0.58765
Sn 189.925	0.7426	ppb	1.4426	194.2	-4.7859	0.74265
Sr 216.596	0.1332	ppb	0.1627	122.2	5.8486	0.13322
Ti 334.941	0.0956	ppb	0.0278	29.1	35.1175	0.09560
Tl 190.794	3.9756	ppb	1.3724	34.5	-5.1887	3.97563
V 292.401	0.0552	ppb	0.0874	158.3	-7.4840	0.05523
Zn 206.200	-0.5341	ppb	0.7557	141.5	0.8482	-0.53406

680-107449-d-1-c msd (Samp) **11/21/2014, 2:34:57 AM** **Rack 3, Tube 39**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	21.7224	21.5591	21.7096
Al 308.215	3052.76	3044.63	3054.01
As 188.980	41.5673	47.5907	46.1648
B 249.678	90.3558	90.3875	90.6097
Ba 389.178	208.851	208.921	208.811
Be 313.042	21.8702	21.9079	21.9507
Ca 370.602	77654	77918	77702
Cd 226.502	21.1086	20.7028	21.2345
Co 228.615	22.6705	23.2673	22.8793
Cr 267.716	47.9826	47.8746	48.2931
Cu 324.754	54.9176	55.0868	55.1038
Fe 271.441	3946.22	3940.63	3961.42
K 766.491	9410.79	9426.31	9421.02
Mg 279.078	30241.4	30285.3	30306.6
Mn 257.610	535.014	534.705	537.190
Mo 202.032	43.3573	43.6331	43.5448
Na 330.237	39542.6	39903.2	39707.4
Ni 231.604	60.3159	59.1190	60.1986
Pb 220.353	198.572	200.672	200.344
Sb 206.834	19.1212	19.3496	21.1768
Se 196.026	41.5087	35.4288	43.5943
Sn 189.925	82.7126	82.3750	83.1960
Sr 216.596	647.139	649.383	648.592
Ti 334.941	106.534	106.624	106.755
Tl 190.794	16.9092	17.9468	11.6302
V 292.401	44.8247	44.4350	45.0834
Zn 206.200	233.074	231.746	230.060

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	21.6637	ppb	0.0908	0.4	1736.49
Al 308.215	3050.47	ppb	5.0938	0.2	21149.5
As 188.980	45.1076	ppb	3.1478	7.0	17.9579
B 249.678	90.4510	ppb	0.1384	0.2	1552.68
Ba 389.178	208.861	ppb	0.0556	0.0	4431.13
Be 313.042	21.9096	ppb	0.0403	0.2	39743.8
Ca 370.602	77758	ppb	140.7	0.2	207087
Cd 226.502	21.0153	ppb	0.2779	1.3	906.776
Co 228.615	22.9391	ppb	0.3028	1.3	264.234

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	48.0501	ppb	0.2173	0.5	2627.41
Cu 324.754	55.0360	ppb	0.1030	0.2	3980.05
Fe 271.441	3949.42	ppb	10.7630	0.3	6534.69
K 766.491	9419.37	ppb	7.8917	0.1	392174
Mg 279.078	30277.8	ppb	33.2160	0.1	82802.7
Mn 257.610	535.636	ppb	1.3544	0.3	108635
Mo 202.032	43.5117	ppb	0.1408	0.3	300.873
Na 330.237	39717.7	ppb	180.521	0.5	1786.51
Ni 231.604	59.8778	ppb	0.6598	1.1	176.425
Pb 220.353	199.863	ppb	1.1297	0.6	334.066
Sb 206.834	19.8825	ppb	1.1267	5.7	22.5096
Se 196.026	40.1773	ppb	4.2425	10.6	16.4049
Sn 189.925	82.7612	ppb	0.4127	0.5	57.3870
Sr 216.596	648.371	ppb	1.1380	0.2	8365.23
Ti 334.941	106.638	ppb	0.1107	0.1	31720.8
Tl 190.794	15.4954	ppb	3.3874	21.9	6.6267
V 292.401	44.7811	ppb	0.3264	0.7	1152.51
Zn 206.200	231.627	ppb	1.5108	0.7	260.046

680-107449-d-4-a (Samp) **11/21/2014, 2:39:15 AM** **Rack 3, Tube 40**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1007	0.1339	-0.4095u
Al 308.215	41.1527	42.1687	40.4069
As 188.980	-0.5220u	6.6657	-0.5707u
B 249.678	5.1259	4.8899	5.1243
Ba 389.178	391.652	392.112	391.619
Be 313.042	0.0129	0.0129	0.0061
Ca 370.602	67797	67977	67933
Cd 226.502	0.0022	-0.1021	-0.2098
Co 228.615	89.8838	89.5996	89.3856
Cr 267.716	2.5407	2.7053	3.2719
Cu 324.754	1.5851	1.1516	1.6994
Fe 271.441	5604.77	5602.17	5589.78
K 766.491	2678.58	2686.40	2681.57
Mg 279.078	42878.6	42933.6	42874.3
Mn 257.610	5088.94	5109.95	5083.78
Mo 202.032	0.5574	0.8231	0.3430
Na 330.237	21122.9	21013.6	21244.4
Ni 231.604	13.5374	14.5858	12.1175
Pb 220.353	0.9136	3.4458	3.7757
Sb 206.834	-5.9642u	-0.9067u	3.9958
Se 196.026	-10.3668u	1.1142	-3.2315u
Sn 189.925	6.2325	1.0187	3.6336
Sr 216.596	824.416	826.908	826.004
Ti 334.941	4.2959	4.0019	4.1445
Tl 190.794	0.1718	0.4832	1.8724
V 292.401	-0.2636u	-0.1746u	-0.5791u
Zn 206.200	4.0414	4.6478	4.3412

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0583	ppb	0.3046	522.5	-31.5438
Al 308.215	41.2428	ppb	0.8843	2.1	717.025

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	1.8577	ppb	4.1639	224.1	-6.1402
B 249.678	5.0467	ppb	0.1358	2.7	129.445
Ba 389.178	391.795	ppb	0.2754	0.1	8331.90
Be 313.042	0.0106	ppb	0.0039	37.0	-254.475
Ca 370.602	67902	ppb	93.92	0.1	180891
Cd 226.502	-0.1032	ppb	0.1060	102.7	33.8561
Co 228.615	89.6230	ppb	0.2499	0.3	1032.68
Cr 267.716	2.8393	ppb	0.3836	13.5	215.532
Cu 324.754	1.4787	ppb	0.2890	19.5	335.694
Fe 271.441	5598.91	ppb	8.0106	0.1	9263.00
K 766.491	2682.18	ppb	3.9451	0.1	111850
Mg 279.078	42895.5	ppb	33.0895	0.1	117210
Mn 257.610	5094.22	ppb	13.8644	0.3	1030638
Mo 202.032	0.5745	ppb	0.2405	41.9	9.4021
Na 330.237	21127.0	ppb	115.473	0.5	965.387
Ni 231.604	13.4136	ppb	1.2388	9.2	35.8209
Pb 220.353	2.7117	ppb	1.5659	57.7	15.6623
Sb 206.834	-0.9583	ppb	4.9802	519.7	-5.7498
Se 196.026	-4.1614	ppb	5.7967	139.3	-1.7186
Sn 189.925	3.6282	ppb	2.6069	71.9	-2.5924
Sr 216.596	825.776	ppb	1.2619	0.2	10643.6
Ti 334.941	4.1475	ppb	0.1470	3.5	1314.33
Tl 190.794	0.8425	ppb	0.9055	107.5	-6.5961
V 292.401	-0.3391	ppb	0.2126	62.7	-19.6040
Zn 206.200	4.3435	ppb	0.3032	7.0	6.0883

680-107449-d-4-b ms (Samp) **11/21/2014, 2:43:33 AM** **Rack 3, Tube 41**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	20.8389	20.2886	21.7833
Al 308.215	2102.38	2102.81	2106.70
As 188.980	52.8945	47.0008	53.0381
B 249.678	84.7235	85.4696	85.0831
Ba 389.178	429.099	428.442	429.390
Be 313.042	22.1381	22.1458	22.1454
Ca 370.602	68829	68862	68647
Cd 226.502	21.0181	21.1878	21.2020
Co 228.615	110.017	110.696	109.015
Cr 267.716	45.7235	45.8469	45.7301
Cu 324.754	45.7273	46.0062	46.5491
Fe 271.441	7495.37	7474.74	7468.09
K 766.491	4965.47	4974.88	4976.04
Mg 279.078	44401.3	44387.7	44354.3
Mn 257.610	5224.94	5233.31	5238.26
Mo 202.032	40.2842	40.3693	40.8011
Na 330.237	23016.6	22892.1	23072.2
Ni 231.604	54.9885	55.4599	55.3483
Pb 220.353	201.165	198.415	198.164
Sb 206.834	18.1183	22.9498	21.5622
Se 196.026	33.3264	34.7133	39.6519
Sn 189.925	77.6120	80.1181	79.1726
Sr 216.596	854.143	851.148	851.615
Ti 334.941	44.8418	45.0342	44.8627

Label	Replicates Concentration		
Tl 190.794	16.3827	20.9333	18.9863
V 292.401	40.6049	40.7595	40.4887
Zn 206.200	48.0294	45.5770	45.7447

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	20.9703	ppb	0.7560	3.6	1695.42
Al 308.215	2103.97	ppb	2.3784	0.1	14724.2
As 188.980	50.9778	ppb	3.4449	6.8	21.2101
B 249.678	85.0921	ppb	0.3731	0.4	1455.45
Ba 389.178	428.977	ppb	0.4856	0.1	9124.12
Be 313.042	22.1431	ppb	0.0043	0.0	40167.3
Ca 370.602	68779	ppb	115.5	0.2	183229
Cd 226.502	21.1359	ppb	0.1023	0.5	925.143
Co 228.615	109.909	ppb	0.8458	0.8	1266.68
Cr 267.716	45.7668	ppb	0.0694	0.2	2528.47
Cu 324.754	46.0942	ppb	0.4179	0.9	3373.02
Fe 271.441	7479.40	ppb	14.2250	0.2	12367.7
K 766.491	4972.13	ppb	5.7925	0.1	207131
Mg 279.078	44381.1	ppb	24.2099	0.1	121269
Mn 257.610	5232.17	ppb	6.7328	0.1	1058553
Mo 202.032	40.4849	ppb	0.2771	0.7	280.167
Na 330.237	22993.6	ppb	92.2362	0.4	1047.02
Ni 231.604	55.2656	ppb	0.2464	0.4	162.556
Pb 220.353	199.248	ppb	1.6647	0.8	334.324
Sb 206.834	20.8768	ppb	2.4876	11.9	23.9532
Se 196.026	35.8972	ppb	3.3248	9.3	15.6019
Sn 189.925	78.9676	ppb	1.2655	1.6	54.5067
Sr 216.596	852.302	ppb	1.6113	0.2	10985.6
Ti 334.941	44.9129	ppb	0.1056	0.2	13421.0
Tl 190.794	18.7674	ppb	2.2832	12.2	12.0903
V 292.401	40.6177	ppb	0.1359	0.3	1042.73
Zn 206.200	46.4504	ppb	1.3700	2.9	52.9841

680-107449-d-4-c msd (Samp) **11/21/2014, 2:47:51 AM** **Rack 3, Tube 42**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	20.1655	20.2000	20.3901
Al 308.215	2091.73	2092.04	2086.30
As 188.980	44.3836	48.6041	48.3656
B 249.678	84.6281	85.9035	85.5069
Ba 389.178	431.028	432.139	430.337
Be 313.042	21.9065	21.9476	21.9024
Ca 370.602	68972	69334	69324
Cd 226.502	20.9138	20.9426	21.0132
Co 228.615	109.680	108.955	109.926
Cr 267.716	45.1233	45.2731	44.9776
Cu 324.754	45.4864	45.0710	45.3181
Fe 271.441	7642.48	7652.25	7648.65
K 766.491	4987.29	4970.46	4980.09
Mg 279.078	44669.6	44708.1	44629.8
Mn 257.610	5300.40	5292.29	5270.52
Mo 202.032	40.0470	39.8882	39.9460
Na 330.237	22887.0	22957.0	23077.5

Label	Replicates Concentration		
Ni 231.604	54.8106	55.0796	54.4337
Pb 220.353	199.536	196.781	197.199
Sb 206.834	21.8429	19.5832	23.4140
Se 196.026	39.9984	35.4766	34.1284
Sn 189.925	83.0018	85.5455	82.0728
Sr 216.596	857.360	860.751	858.218
Ti 334.941	44.8343	44.8720	44.7580
Tl 190.794	18.9657	18.6379	17.3685
V 292.401	40.0117	40.3010	40.1341
Zn 206.200	43.8621	43.3822	46.1843

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	20.2519	ppb	0.1210	0.6	1636.30
Al 308.215	2090.02	ppb	3.2248	0.2	14629.6
As 188.980	47.1177	ppb	2.3709	5.0	19.0584
B 249.678	85.3461	ppb	0.6527	0.8	1459.25
Ba 389.178	431.168	ppb	0.9091	0.2	9171.23
Be 313.042	21.9188	ppb	0.0250	0.1	39757.9
Ca 370.602	69210	ppb	206.2	0.3	184376
Cd 226.502	20.9565	ppb	0.0512	0.2	918.331
Co 228.615	109.520	ppb	0.5051	0.5	1262.21
Cr 267.716	45.1247	ppb	0.1478	0.3	2494.21
Cu 324.754	45.2918	ppb	0.2089	0.5	3318.48
Fe 271.441	7647.79	ppb	4.9383	0.1	12645.5
K 766.491	4979.28	ppb	8.4445	0.2	207428
Mg 279.078	44669.2	ppb	39.1656	0.1	122055
Mn 257.610	5287.73	ppb	15.4529	0.3	1069792
Mo 202.032	39.9604	ppb	0.0803	0.2	276.599
Na 330.237	22973.9	ppb	96.3342	0.4	1046.13
Ni 231.604	54.7746	ppb	0.3244	0.6	161.085
Pb 220.353	197.838	ppb	1.4846	0.8	332.061
Sb 206.834	21.6133	ppb	1.9257	8.9	24.9636
Se 196.026	36.5345	ppb	3.0746	8.4	15.8885
Sn 189.925	83.5400	ppb	1.7979	2.2	57.9721
Sr 216.596	858.776	ppb	1.7635	0.2	11069.2
Ti 334.941	44.8214	ppb	0.0580	0.1	13394.4
Tl 190.794	18.3240	ppb	0.8436	4.6	11.6199
V 292.401	40.1490	ppb	0.1452	0.4	1030.52
Zn 206.200	44.4762	ppb	1.4986	3.4	50.7726

680-107449-d-2-a (Samp) **11/21/2014, 2:52:09 AM** **Rack 3, Tube 43**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1746u	0.1303u	-0.1338u
Al 308.215	13.5624	14.9973	14.0566
As 188.980	7.6485	3.0600	-2.4762u
B 249.678	4.5923	4.5929	4.1296
Ba 389.178	301.463	301.156	300.203
Be 313.042	-0.0076u	0.0021	-0.0027
Ca 370.602	39523	39301	39352
Cd 226.502	-0.3342u	-0.1859u	-0.1437u
Co 228.615	-0.1201u	0.0009	0.1824
Cr 267.716	0.2979	0.2132	0.2833

Label	Replicates Concentration		
Cu 324.754	0.0523	0.1514	0.5161
Fe 271.441	15.0816	10.7123	14.3339
K 766.491	2146.61	2142.34	2143.89
Mg 279.078	32565.1	32500.9	32470.8
Mn 257.610	1.5516	1.6432	1.7258
Mo 202.032	-0.0377u	0.3872	0.2963
Na 330.237	38044.4	37787.9	37954.0
Ni 231.604	11.2911	11.4959	10.4575
Pb 220.353	1.3654	1.5982	1.3062
Sb 206.834	0.8364	-1.3031u	0.8493
Se 196.026	-0.7350u	-0.8708u	-0.1839u
Sn 189.925	-0.8847u	2.1408	0.3666
Sr 216.596	422.134	420.697	420.340
Ti 334.941	0.1662	0.1256	0.1216
Tl 190.794	-1.5927u	0.8617	0.8678
V 292.401	7.1159	7.8469	8.1057
Zn 206.200	18.4739	18.3611	17.7035

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0594	ppb	0.1655	278.9	-42.4948
Al 308.215	14.2054	ppb	0.7289	5.1	534.576
As 188.980	2.7441	ppb	5.0697	184.8	-5.6154
B 249.678	4.4383	ppb	0.2673	6.0	132.273
Ba 389.178	300.941	ppb	0.6569	0.2	6382.92
Be 313.042	-0.0027	ppb	0.0048	176.7	-288.113
Ca 370.602	39392	ppb	116.0	0.3	104903
Cd 226.502	-0.2212	ppb	0.1000	45.2	8.2704
Co 228.615	0.0211	ppb	0.1522	722.2	-1.5870
Cr 267.716	0.2648	ppb	0.0453	17.1	49.7482
Cu 324.754	0.2399	ppb	0.2442	101.8	249.036
Fe 271.441	13.3760	ppb	2.3369	17.5	38.9594
K 766.491	2144.28	ppb	2.1614	0.1	89468.5
Mg 279.078	32512.3	ppb	48.2049	0.1	88924.8
Mn 257.610	1.6402	ppb	0.0872	5.3	646.098
Mo 202.032	0.2153	ppb	0.2237	103.9	7.2168
Na 330.237	37928.8	ppb	130.136	0.3	1712.16
Ni 231.604	11.0815	ppb	0.5500	5.0	28.5152
Pb 220.353	1.4233	ppb	0.1544	10.8	12.1456
Sb 206.834	0.1276	ppb	1.2390	971.3	-4.3981
Se 196.026	-0.5966	ppb	0.3638	61.0	-1.3274
Sn 189.925	0.5409	ppb	1.5202	281.1	-4.9270
Sr 216.596	421.057	ppb	0.9496	0.2	5427.01
Ti 334.941	0.1378	ppb	0.0247	17.9	103.188
Tl 190.794	0.0456	ppb	1.4188	3112.3	-9.3249
V 292.401	7.6895	ppb	0.5134	6.7	192.564
Zn 206.200	18.1795	ppb	0.4161	2.3	21.7597

680-107449-d-6-a (Samp) **11/21/2014, 2:56:27 AM** **Rack 3, Tube 44**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0772u	-0.1156u	0.2295
Al 308.215	13.6116	12.6716	14.9674
As 188.980	-1.3658u	2.7115	-0.8955u

Label	Replicates Concentration		
B 249.678	77.6885	78.8633	78.6286
Ba 389.178	87.4797	87.6351	87.1913
Be 313.042	-0.0077u	-0.0158u	-0.0097u
Ca 370.602	31941	32047	32079
Cd 226.502	-0.0172u	0.0586	0.0339
Co 228.615	1.0286	0.9018	1.3769
Cr 267.716	0.1243	0.1582	0.2163
Cu 324.754	1.3493	0.9646	1.3388
Fe 271.441	14.7796	8.1657	19.8821
K 766.491	3865.16	3857.68	3855.61
Mg 279.078	20696.4	20784.6	20752.7
Mn 257.610	3.3097	3.3826	3.3805
Mo 202.032	4.1531	3.6144	3.5647
Na 330.237	46878.6	46990.1	47105.4
Ni 231.604	4.3081	3.7212	4.4667
Pb 220.353	1.2817	2.5260	1.4573
Sb 206.834	4.8815	2.8711	0.0802
Se 196.026	3.9061	-6.6786u	-0.6625u
Sn 189.925	1.5403	-1.0271u	-1.7291u
Sr 216.596	307.344	309.160	305.530
Ti 334.941	0.1931	0.1751	0.2034
Tl 190.794	0.0590	1.5331	-1.7644u
V 292.401	6.0828	6.0859	5.6941
Zn 206.200	1.7183	1.2708	0.9298

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0637	ppb	0.1730	271.4	-28.4152
Al 308.215	13.7502	ppb	1.1541	8.4	531.326
As 188.980	0.1501	ppb	2.2307	1486.3	-7.0617
B 249.678	78.3935	ppb	0.6217	0.8	1361.16
Ba 389.178	87.4354	ppb	0.2252	0.3	1837.09
Be 313.042	-0.0111	ppb	0.0042	38.1	-307.101
Ca 370.602	32022	ppb	72.52	0.2	85278
Cd 226.502	0.0251	ppb	0.0386	153.9	18.3015
Co 228.615	1.1024	ppb	0.2460	22.3	10.7917
Cr 267.716	0.1663	ppb	0.0466	28.0	44.6415
Cu 324.754	1.2176	ppb	0.2192	18.0	315.713
Fe 271.441	14.2758	ppb	5.8744	41.1	40.5714
K 766.491	3859.48	ppb	5.0212	0.1	160835
Mg 279.078	20744.6	ppb	44.6772	0.2	56748.0
Mn 257.610	3.3576	ppb	0.0415	1.2	909.123
Mo 202.032	3.7774	ppb	0.3263	8.6	31.3976
Na 330.237	46991.4	ppb	113.402	0.2	2114.75
Ni 231.604	4.1653	ppb	0.3927	9.4	7.5871
Pb 220.353	1.7550	ppb	0.6735	38.4	12.6774
Sb 206.834	2.6109	ppb	2.4112	92.4	-1.0755
Se 196.026	-1.1450	ppb	5.3088	463.6	-1.5636
Sn 189.925	-0.4053	ppb	1.7211	424.7	-5.6413
Sr 216.596	307.344	ppb	1.8149	0.6	3963.93
Ti 334.941	0.1906	ppb	0.0143	7.5	96.9424
Tl 190.794	-0.0574	ppb	1.6518	2876.0	-9.4444
V 292.401	5.9543	ppb	0.2253	3.8	146.232
Zn 206.200	1.3063	ppb	0.3955	30.3	2.9040

680-107449-d-7-a (Samp) **11/21/2014, 3:00:45 AM** **Rack 3, Tube 45**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0972u	-0.1376u	-0.2258u
Al 308.215	11.0267	10.9765	10.9579
As 188.980	-0.1227u	-4.0352u	2.4996
B 249.678	4.1914	4.3530	4.2929
Ba 389.178	129.609	129.132	130.087
Be 313.042	-0.0156u	-0.0220u	-0.0164u
Ca 370.602	122552	121948	122118
Cd 226.502	-0.1742u	-0.1797u	0.0055u
Co 228.615	0.6175	0.9457	0.1665
Cr 267.716	0.3105	0.3082	0.2565
Cu 324.754	0.3319	0.0158	0.0994
Fe 271.441	14.1331	10.0229	12.7874
K 766.491	2338.11	2337.98	2335.39
Mg 279.078	66282.1	66123.1	65944.6
Mn 257.610	14.5720	14.5476	14.4231
Mo 202.032	3.5539	4.2234	3.4023
Na 330.237	264373x	263940x	263506x
Ni 231.604	4.6786	3.1306	4.1697
Pb 220.353	2.1009	3.0739	3.3764
Sb 206.834	-0.4614u	1.9327	-1.5938u
Se 196.026	4.9273	3.5885	4.0242
Sn 189.925	3.5445	1.5806	-2.2619u
Sr 216.596	1367.55	1366.06	1358.45
Ti 334.941	-0.1484	-0.1411	-0.2416
Tl 190.794	-1.3214u	4.2425	-0.5233u
V 292.401	9.4720	9.3087	9.4386
Zn 206.200	2.0237	1.7692	2.7816

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0887b	ppb	0.1669	188.1	-77.0881
Al 308.215	10.9870b	ppb	0.0356	0.3	513.060
As 188.980	-0.5528b	ppb	3.2886	594.9	-7.4533
B 249.678	4.2791b	ppb	0.0817	1.9	129.613
Ba 389.178	129.609b	ppb	0.4771	0.4	2819.82
Be 313.042	-0.0180b	ppb	0.0035	19.4	-313.036
Ca 370.602	122206b	ppb	311.4	0.3	325430
Cd 226.502	-0.1161b	ppb	0.1054	90.8	11.7624
Co 228.615	0.5766b	ppb	0.3912	67.9	4.7219
Cr 267.716	0.2917b	ppb	0.0305	10.5	55.6062
Cu 324.754	0.1490b	ppb	0.1638	109.9	242.957
Fe 271.441	12.3145b	ppb	2.0955	17.0	37.2915
K 766.491	2337.16b	ppb	1.5365	0.1	97493.9
Mg 279.078	66116.6b	ppb	168.860	0.3	180810
Mn 257.610	14.5143b	ppb	0.0798	0.6	3490.02
Mo 202.032	3.7265b	ppb	0.4369	11.7	31.0481
Na 330.237	263939xb	ppb	433.516	0.2	11744.6
Ni 231.604	3.9930b	ppb	0.7890	19.8	7.0672
Pb 220.353	2.8504b	ppb	0.6665	23.4	14.4565
Sb 206.834	-0.0408b	ppb	1.8005	4409.3	-4.6852
Se 196.026	4.1800b	ppb	0.6829	16.3	0.7355
Sn 189.925	0.9544b	ppb	2.9534	309.5	-4.5430
Sr 216.596	1364.02b	ppb	4.8825	0.4	17570.3

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	-0.1770b	ppb	0.0560	31.7	52.1783
Tl 190.794	0.7993b	ppb	3.0085	376.4	-8.5298
V 292.401	9.4064b	ppb	0.0863	0.9	235.570
Zn 206.200	2.1915b	ppb	0.5266	24.0	3.8926

680-107449-d-9-a (Samp) **11/21/2014, 3:05:03 AM** **Rack 3, Tube 46**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3813	0.2528	-0.0372u
Al 308.215	13.5670	14.2945	12.9074
As 188.980	4.3484	4.5206	0.2443
B 249.678	3.1118	3.4828	3.0685
Ba 389.178	302.000	301.524	301.786
Be 313.042	-0.0132u	-0.0049u	-0.0097u
Ca 370.602	39076	39065	39198
Cd 226.502	-0.2230u	-0.2896u	-0.1253u
Co 228.615	0.3625	0.2811	0.5662
Cr 267.716	0.4445	0.2508	0.4255
Cu 324.754	0.2271	0.0752	-0.1846u
Fe 271.441	12.8455	10.7665	13.1878
K 766.491	2187.68	2188.02	2184.18
Mg 279.078	32358.7	32390.2	32403.9
Mn 257.610	1.0970	1.0336	1.0510
Mo 202.032	0.6052	0.2988	0.4889
Na 330.237	37909.2	37887.0	37842.4
Ni 231.604	8.9401	10.4748	11.6549
Pb 220.353	3.1200	-1.1590u	3.5641
Sb 206.834	1.3084	0.3298	1.9288
Se 196.026	-9.8470u	-1.5904u	17.0331
Sn 189.925	-0.0005	-0.5054u	1.3879
Sr 216.596	419.240	418.946	419.989
Ti 334.941	0.1665	0.1101	0.1425
Tl 190.794	3.8954	0.6410	1.5230
V 292.401	7.6964	7.6399	7.3830
Zn 206.200	18.2781	17.9654	17.9125

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1990	ppb	0.2144	107.8	-21.2385
Al 308.215	13.5896	ppb	0.6938	5.1	530.356
As 188.980	3.0378	ppb	2.4207	79.7	-5.4519
B 249.678	3.2210	ppb	0.2277	7.1	112.041
Ba 389.178	301.770	ppb	0.2382	0.1	6400.27
Be 313.042	-0.0092	ppb	0.0042	45.0	-300.096
Ca 370.602	39113	ppb	73.50	0.2	104160
Cd 226.502	-0.2126	ppb	0.0826	38.9	8.6296
Co 228.615	0.4033	ppb	0.1468	36.4	2.8143
Cr 267.716	0.3736	ppb	0.1068	28.6	55.6075
Cu 324.754	0.0393	ppb	0.2082	530.4	235.398
Fe 271.441	12.2666	ppb	1.3104	10.7	37.1690
K 766.491	2186.63	ppb	2.1271	0.1	91230.5
Mg 279.078	32384.3	ppb	23.1952	0.1	88574.9
Mn 257.610	1.0605	ppb	0.0327	3.1	528.076
Mo 202.032	0.4643	ppb	0.1547	33.3	8.9076

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	37879.5	ppb	34.0394	0.1	1709.97
Ni 231.604	10.3566	ppb	1.3613	13.1	26.3213
Pb 220.353	1.8417	ppb	2.6082	141.6	12.8232
Sb 206.834	1.1890	ppb	0.8062	67.8	-2.9556
Se 196.026	1.8652	ppb	13.7692	738.2	-0.2659
Sn 189.925	0.2940	ppb	0.9804	333.5	-5.1142
Sr 216.596	419.392	ppb	0.5379	0.1	5405.61
Ti 334.941	0.1397	ppb	0.0283	20.2	103.553
Tl 190.794	2.0198	ppb	1.6831	83.3	-7.2423
V 292.401	7.5731	ppb	0.1670	2.2	189.450
Zn 206.200	18.0520	ppb	0.1976	1.1	21.6170

mb 680-359633/1-a (Samp) **11/21/2014, 3:09:21 AM** **Rack 3, Tube 47**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1725u	0.0189	0.1013
Al 308.215	-1.1813u	1.0917	0.2891
As 188.980	-4.7769u	-0.2517u	-0.5712u
B 249.678	-0.7511u	-0.4029u	-0.5531u
Ba 389.178	-0.2939u	-0.3286u	1.1671
Be 313.042	0.0024	0.0081	0.0029
Ca 370.602	13.52	9.471	8.558
Cd 226.502	-0.1295u	0.1678	-0.0252u
Co 228.615	-0.0398u	0.4761	0.0231
Cr 267.716	0.0243	0.0768	0.0774
Cu 324.754	-0.4734u	-0.2776u	-0.4857u
Fe 271.441	0.8115	-1.8125u	-1.4698u
K 766.491	2.2503	2.5905	2.2644
Mg 279.078	3.3749	6.9221	9.0593
Mn 257.610	0.0687	0.1242	0.1079
Mo 202.032	0.0832	0.2434	-0.1508u
Na 330.237	-81.7929u	60.4596	-81.5793u
Ni 231.604	0.2743	0.7834	0.5570
Pb 220.353	2.1628	1.8638	2.5373
Sb 206.834	-0.7703u	1.0788	1.5702
Se 196.026	3.3251	-9.8907u	-6.1246u
Sn 189.925	-0.5276u	0.5631	0.4286
Sr 216.596	0.6714	-0.1097u	0.0411
Ti 334.941	-0.1741u	-0.1610u	-0.1232u
Tl 190.794	2.1085	5.5595	-0.9371u
V 292.401	-0.3246u	-0.4878u	-0.2083u
Zn 206.200	1.9009	0.6772	-0.2288u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0174	ppb	0.1405	807.0	-24.4377
Al 308.215	0.0665	ppb	1.1527	1734.6	437.478
As 188.980	-1.8666	ppb	2.5255	135.3	-8.1845
B 249.678	-0.5690	ppb	0.1747	30.7	49.1022
Ba 389.178	0.1816	ppb	0.8537	470.2	-52.0939
Be 313.042	0.0044	ppb	0.0032	71.6	-283.711
Ca 370.602	10.52	ppb	2.642	25.1	33.68
Cd 226.502	0.0044	ppb	0.1508	3453.3	17.3796
Co 228.615	0.1531	ppb	0.2815	183.8	-0.0733

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.0595	ppb	0.0305	51.2	38.0311
Cu 324.754	-0.4122	ppb	0.1168	28.3	204.769
Fe 271.441	-0.8236	ppb	1.4264	173.2	15.4847
K 766.491	2.3684	ppb	0.1925	8.1	346.723
Mg 279.078	6.4521	ppb	2.8712	44.5	43.1244
Mn 257.610	0.1003	ppb	0.0286	28.5	101.770
Mo 202.032	0.0586	ppb	0.1982	338.2	6.1634
Na 330.237	-34.3042	ppb	82.0679	239.2	27.3902
Ni 231.604	0.5382	ppb	0.2551	47.4	-3.3854
Pb 220.353	2.1880	ppb	0.3375	15.4	13.3839
Sb 206.834	0.6262	ppb	1.2341	197.1	-3.7196
Se 196.026	-4.2300	ppb	6.8085	161.0	-2.8950
Sn 189.925	0.1547	ppb	0.5947	384.4	-5.2315
Sr 216.596	0.2009	ppb	0.4144	206.2	6.7209
Ti 334.941	-0.1528	ppb	0.0264	17.3	-38.6108
Tl 190.794	2.2436	ppb	3.2504	144.9	-7.0169
V 292.401	-0.3403	ppb	0.1404	41.3	-17.7544
Zn 206.200	0.7831	ppb	1.0688	136.5	2.3200

lcs 680-359633/2-a (Samp) **11/21/2014, 3:13:40 AM** **Rack 3, Tube 48**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	22.0341	21.9191	22.6211
Al 308.215	2077.12	2075.27	2073.57
As 188.980	38.8130	43.7395	39.9140
B 249.678	81.9932	82.6637	83.2842
Ba 389.178	44.7391	44.2763	45.0321
Be 313.042	22.7826	22.6944	22.7210
Ca 370.602	2063	2059	2063
Cd 226.502	22.4558	22.4271	22.6164
Co 228.615	23.1673	21.8939	22.3540
Cr 267.716	44.4517	44.4167	44.4734
Cu 324.754	44.9341	45.0965	45.4531
Fe 271.441	2108.35	2105.44	2107.27
K 766.491	2182.41	2183.52	2178.73
Mg 279.078	2098.86	2098.72	2102.96
Mn 257.610	229.807	229.980	230.054
Mo 202.032	41.4530	41.3255	40.3641
Na 330.237	2079.48	1983.05	2072.69
Ni 231.604	43.9796	44.6305	45.0216
Pb 220.353	209.904	212.978	211.944
Sb 206.834	22.1670	20.0038	25.2203
Se 196.026	40.0089	37.5217	34.4423
Sn 189.925	84.6290	81.3375	83.4006
Sr 216.596	41.6648	41.5525	41.6613
Ti 334.941	42.2829	42.1880	42.1755
Tl 190.794	18.4864	17.5655	16.1705
V 292.401	42.3671	42.2896	42.0214
Zn 206.200	43.8204	44.2930	47.1222

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.1914	ppb	0.3765	1.7	1799.41
Al 308.215	2075.32	ppb	1.7718	0.1	14530.0

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	40.8222	ppb	2.5858	6.3	15.5807
B 249.678	82.6470	ppb	0.6456	0.8	1427.26
Ba 389.178	44.6825	ppb	0.3811	0.9	896.513
Be 313.042	22.7327	ppb	0.0452	0.2	41226.4
Ca 370.602	2062	ppb	2.106	0.1	5498
Cd 226.502	22.4998	ppb	0.1020	0.5	961.796
Co 228.615	22.4717	ppb	0.6448	2.9	257.389
Cr 267.716	44.4473	ppb	0.0286	0.1	2430.15
Cu 324.754	45.1613	ppb	0.2655	0.6	3307.39
Fe 271.441	2107.02	ppb	1.4676	0.1	3495.51
K 766.491	2181.55	ppb	2.5041	0.1	91019.4
Mg 279.078	2100.18	ppb	2.4065	0.1	5762.52
Mn 257.610	229.947	ppb	0.1270	0.1	46605.9
Mo 202.032	41.0475	ppb	0.5953	1.5	284.237
Na 330.237	2045.08	ppb	53.8252	2.6	118.362
Ni 231.604	44.5439	ppb	0.5264	1.2	129.879
Pb 220.353	211.609	ppb	1.5641	0.7	352.964
Sb 206.834	22.4637	ppb	2.6209	11.7	25.9920
Se 196.026	37.3243	ppb	2.7886	7.5	15.0926
Sn 189.925	83.1224	ppb	1.6633	2.0	57.6490
Sr 216.596	41.6262	ppb	0.0638	0.2	540.663
Ti 334.941	42.2155	ppb	0.0588	0.1	12545.0
Tl 190.794	17.4075	ppb	1.1660	6.7	8.7721
V 292.401	42.2260	ppb	0.1814	0.4	1086.35
Zn 206.200	45.0785	ppb	1.7855	4.0	51.6503

Cont Calib Verif (CCV) **11/21/2014, 3:17:58 AM** **Rack 3, Tube 49**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	505.904	509.310	502.982
Al 308.215	4903.66	4927.06	4922.50
As 188.980	492.193	487.385	488.450
B 249.678	492.798	496.685	497.404
Ba 389.178	5231.60	5263.83	5248.20
Be 313.042	529.630	530.341	530.581
Ca 370.602	4924	4959	4938
Cd 226.502	522.165	523.798	522.655
Co 228.615	528.852	529.926	528.474
Cr 267.716	5224.63	5251.37	5239.01
Cu 324.754	5367.35	5405.43	5324.04
Fe 271.441	4963.42	4994.16	4968.98
K 766.491	10365.0	10426.9	10415.7
Mg 279.078	4943.01	4973.70	4952.49
Mn 257.610	5337.82	5329.46	5324.69
Mo 202.032	496.266	496.982	493.691
Na 330.237	7877.49	7712.93	7737.61
Ni 231.604	2590.05	2615.98	2614.09
Pb 220.353	494.992	499.756	494.779
Sb 206.834	981.404	984.098	986.294
Se 196.026	4898.54	4905.74	4872.34
Sn 189.925	4960.94	4936.19	4944.49
Sr 216.596	2469.08	2480.53	2472.69
Ti 334.941	499.109	501.573	500.898

Label	Replicates Concentration		
Tl 190.794	4987.68	5026.50	5015.79
V 292.401	4936.30	4970.46	4954.91
Zn 206.200	2616.13	2626.59	2628.54

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	506.065	ppb	3.1673	0.6	41503.3	101.21306
Al 308.215	4917.74	ppb	12.4044	0.3	34493.0	98.35478
As 188.980	489.343	ppb	2.5253	0.5	265.376	97.86859
B 249.678	495.629	ppb	2.4776	0.5	8297.13	99.12575
Ba 389.178	5247.88	ppb	16.1191	0.3	111135	104.95750
Be 313.042	530.184	ppb	0.4943	0.1	968298	106.03677
Ca 370.602	4940	ppb	17.52	0.4	13486	98.80517
Cd 226.502	522.873	ppb	0.8382	0.2	21808.2	104.57455
Co 228.615	529.084	ppb	0.7534	0.1	6108.70	105.81671
Cr 267.716	5238.34	ppb	13.3841	0.3	282121	104.76678
Cu 324.754	5365.61	ppb	40.7208	0.8	365260	107.31213
Fe 271.441	4975.52	ppb	16.3815	0.3	8332.49	99.51037
K 766.491	10402.5	ppb	32.9718	0.3	433081	104.02504
Mg 279.078	4956.40	ppb	15.7103	0.3	13465.3	99.12800
Mn 257.610	5330.66	ppb	6.6484	0.1	1078180	106.61311
Mo 202.032	495.647	ppb	1.7308	0.3	3364.40	99.12932
Na 330.237	7776.01	ppb	88.7486	1.1	322.038	103.68014
Ni 231.604	2606.71	ppb	14.4570	0.6	7880.85	104.26824
Pb 220.353	496.509	ppb	2.8143	0.6	819.336	99.30177
Sb 206.834	983.932	ppb	2.4494	0.2	1395.50	98.39316
Se 196.026	4892.21	ppb	17.5785	0.4	2109.87	97.84420
Sn 189.925	4947.21	ppb	12.6002	0.3	3744.06	98.94411
Sr 216.596	2474.10	ppb	5.8562	0.2	31702.3	98.96398
Ti 334.941	500.527	ppb	1.2732	0.3	148629	100.10535
Tl 190.794	5009.99	ppb	20.0511	0.4	5287.65	100.19981
V 292.401	4953.89	ppb	17.0995	0.3	129377	99.07782
Zn 206.200	2623.75	ppb	6.6721	0.3	2922.30	104.95003

Cont Calib Blank (CCB) **11/21/2014, 3:22:16 AM** **Rack 3, Tube 50**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1594	0.3235	0.1521
Al 308.215	-3.0207u	-0.9565u	-0.4896u
As 188.980	-2.5278u	5.4298	2.3325
B 249.678	7.2290	6.1995	5.5566
Ba 389.178	1.5798	0.4296	1.2883
Be 313.042	0.0180	0.0265	0.0209
Ca 370.602	3.511	4.254	7.061
Cd 226.502	0.1390	0.0506	0.0353
Co 228.615	0.7123	0.3829	0.0039
Cr 267.716	0.1239	0.2840	0.2176
Cu 324.754	-0.4031u	-0.0616u	0.1302
Fe 271.441	-1.3066u	-3.8659u	2.3104
K 766.491	2.0339	1.9999	2.7561
Mg 279.078	-0.6496u	0.4550	-0.0438u
Mn 257.610	0.1868	0.2585	0.3358
Mo 202.032	0.4207	0.5613	0.6679
Na 330.237	-7.5696u	30.7418	-41.5877u

Label	Replicates Concentration		
Ni 231.604	1.5830	0.9504	0.0038
Pb 220.353	0.9475	-0.9945u	1.7397
Sb 206.834	7.8063	3.3184	4.3728
Se 196.026	-11.7322u	6.0329	-8.3291u
Sn 189.925	0.7758	0.7752	-0.3891u
Sr 216.596	0.7477	0.2536	0.4996
Ti 334.941	0.1225	0.0665	0.0856
Tl 190.794	1.1343	1.6323	1.5618
V 292.401	-0.2380u	-0.0250u	-0.0344u
Zn 206.200	0.1111	1.4147	0.2153

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2116	ppb	0.0969	45.8	-5.6329	0.21165
Al 308.215	-1.4889	ppb	1.3469	90.5	426.992	-1.48892
As 188.980	1.7448	ppb	4.0112	229.9	-6.1723	1.74483
B 249.678	6.3284	ppb	0.8437	13.3	163.771	6.32838
Ba 389.178	1.0992	ppb	0.5979	54.4	-32.6660	1.09921
Be 313.042	0.0218	ppb	0.0043	19.8	-252.046	0.02181
Ca 370.602	4.942	ppb	1.873	37.9	18.96	4.94202
Cd 226.502	0.0750	ppb	0.0560	74.7	20.3137	0.07497
Co 228.615	0.3664	ppb	0.3545	96.7	2.3796	0.36640
Cr 267.716	0.2085	ppb	0.0805	38.6	46.0499	0.20850
Cu 324.754	-0.1115	ppb	0.2701	242.3	225.241	-0.11148
Fe 271.441	-0.9540	ppb	3.1032	325.3	15.3001	-0.95403
K 766.491	2.2633	ppb	0.4271	18.9	342.350	2.26329
Mg 279.078	-0.0795	ppb	0.5532	695.8	25.2622	-0.07950
Mn 257.610	0.2603	ppb	0.0745	28.6	134.090	0.26034
Mo 202.032	0.5500	ppb	0.1240	22.5	9.4982	0.54998
Na 330.237	-6.1385	ppb	36.1860	589.5	28.6503	-6.13854
Ni 231.604	0.8457	ppb	0.7948	94.0	-2.4557	0.84572
Pb 220.353	0.5642	ppb	1.4068	249.3	10.7509	0.56422
Sb 206.834	5.1659	ppb	2.3467	45.4	2.4620	5.16586
Se 196.026	-4.6761	ppb	9.4291	201.6	-3.0874	-4.67614
Sn 189.925	0.3873	ppb	0.6723	173.6	-5.0553	0.38729
Sr 216.596	0.5003	ppb	0.2471	49.4	10.5493	0.50029
Ti 334.941	0.0915	ppb	0.0285	31.1	33.9163	0.09152
Tl 190.794	1.4428	ppb	0.2695	18.7	-7.8619	1.44284
V 292.401	-0.0991	ppb	0.1204	121.4	-11.5337	-0.09914
Zn 206.200	0.5804	ppb	0.7244	124.8	2.0933	0.58038

680-107418-b-13-a (Samp) **11/21/2014, 3:26:34 AM** **Rack 3, Tube 51**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2798	-0.5536u	-0.1059u
Al 308.215	3.5258	4.8034	4.6462
As 188.980	-2.2828u	3.4581	-0.8837u
B 249.678	8.4845	8.3485	8.1071
Ba 389.178	248.221	248.433	247.142
Be 313.042	0.0006	-0.0066u	-0.0004
Ca 370.602	43905	43761	43745
Cd 226.502	-0.2165	-0.0204	-0.1289
Co 228.615	5.5167	6.5916	6.7742
Cr 267.716	0.0435	0.0949	0.1218

Label	Replicates Concentration		
Cu 324.754	-0.2654u	-0.2110u	-0.1012u
Fe 271.441	8551.97	8521.40	8543.83
K 766.491	1641.53	1641.01	1643.87
Mg 279.078	35164.8	35112.3	35113.8
Mn 257.610	741.041	740.610	741.643
Mo 202.032	0.8236	0.6758	0.0582u
Na 330.237	30428.5	30688.3	30608.9
Ni 231.604	4.3503	5.0123	3.8608
Pb 220.353	-0.3258	1.7327	0.2507
Sb 206.834	3.6631	-0.7385u	2.4982
Se 196.026	3.1159	-13.6414u	5.6887
Sn 189.925	0.8247	-1.3490u	-0.9826u
Sr 216.596	540.135	539.861	540.428
Ti 334.941	-0.1108	-0.0868	-0.0675
Tl 190.794	1.2919	-0.5138u	2.3891
V 292.401	1.0860	0.9785	1.1102
Zn 206.200	2.8851	5.1377	5.5458

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.1266	ppb	0.4171	329.5	-49.7732
Al 308.215	4.3251	ppb	0.6967	16.1	467.503
As 188.980	0.0972	ppb	2.9935	3078.5	-7.1373
B 249.678	8.3133	ppb	0.1911	2.3	176.955
Ba 389.178	247.932	ppb	0.6923	0.3	5271.43
Be 313.042	-0.0021	ppb	0.0039	182.2	-285.598
Ca 370.602	43804	ppb	88.41	0.2	116586
Cd 226.502	-0.1220	ppb	0.0983	80.6	43.6767
Co 228.615	6.2942	ppb	0.6794	10.8	71.3603
Cr 267.716	0.0867	ppb	0.0398	45.8	47.7428
Cu 324.754	-0.1925	ppb	0.0836	43.4	223.147
Fe 271.441	8539.07	ppb	15.8348	0.2	14102.9
K 766.491	1642.14	ppb	1.5220	0.1	68575.0
Mg 279.078	35130.3	ppb	29.9147	0.1	96068.0
Mn 257.610	741.098	ppb	0.5186	0.1	150234
Mo 202.032	0.5192	ppb	0.4060	78.2	8.8872
Na 330.237	30575.2	ppb	133.094	0.4	1384.15
Ni 231.604	4.4078	ppb	0.5779	13.1	9.0213
Pb 220.353	0.5526	ppb	1.0619	192.2	11.4743
Sb 206.834	1.8076	ppb	2.2806	126.2	-1.9643
Se 196.026	-1.6123	ppb	10.4967	651.1	-1.5334
Sn 189.925	-0.5023	ppb	1.1637	231.7	-5.7199
Sr 216.596	540.141	ppb	0.2834	0.1	6970.17
Ti 334.941	-0.0884	ppb	0.0217	24.5	42.3586
Tl 190.794	1.0557	ppb	1.4658	138.8	-9.1777
V 292.401	1.0582	ppb	0.0701	6.6	15.8792
Zn 206.200	4.5229	ppb	1.4330	31.7	6.1880

680-107418-b-13-aSD (Samp) **11/21/2014, 3:30:52 AM** **Rack 3, Tube 52**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3066	0.5597	0.1569
Al 308.215	2.8345	-0.0345u	0.3099
As 188.980	1.3075	-2.6972u	6.5057

Label	Replicates Concentration		
B 249.678	1.7241	1.4364	1.4778
Ba 389.178	49.8158	49.0556	50.7225
Be 313.042	0.0008	0.0018	0.0018
Ca 370.602	8703	8640	8662
Cd 226.502	-0.0593	0.0038	-0.0400
Co 228.615	1.3967	1.4738	1.0082
Cr 267.716	-0.0446u	0.0270	0.0913
Cu 324.754	-0.3942u	-0.4226u	-0.7065u
Fe 271.441	1712.36	1705.57	1716.40
K 766.491	304.692	302.655	304.409
Mg 279.078	6958.92	6900.85	6934.80
Mn 257.610	149.110	147.913	148.819
Mo 202.032	0.3027	0.0159	0.1698
Na 330.237	5771.02	5602.47	5642.32
Ni 231.604	1.0788	0.7193	1.7922
Pb 220.353	1.7702	4.9757	1.9818
Sb 206.834	2.4113	2.7730	2.0049
Se 196.026	-2.7945u	0.5979	-1.1240u
Sn 189.925	-0.7172u	2.8929	0.0149
Sr 216.596	107.975	107.059	108.135
Ti 334.941	-0.0167	-0.0420u	-0.0181
Tl 190.794	1.9694	2.2881	0.1564u
V 292.401	0.0289	0.0440	-0.1354u
Zn 206.200	1.0332	2.1033	0.8408

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3411	ppb	0.2036	59.7	1.7733
Al 308.215	1.0366	ppb	1.5665	151.1	444.298
As 188.980	1.7053	ppb	4.6143	270.6	-6.2036
B 249.678	1.5461	ppb	0.1556	10.1	80.2926
Ba 389.178	49.8646	ppb	0.8345	1.7	1015.24
Be 313.042	0.0015	ppb	0.0006	38.8	-287.105
Ca 370.602	8668	ppb	32.21	0.4	23076
Cd 226.502	-0.0318	ppb	0.0324	101.7	22.2006
Co 228.615	1.2929	ppb	0.2496	19.3	13.1946
Cr 267.716	0.0246	ppb	0.0680	276.7	37.7980
Cu 324.754	-0.5078	ppb	0.1727	34.0	198.955
Fe 271.441	1711.44	ppb	5.4699	0.3	2840.05
K 766.491	303.919	ppb	1.1034	0.4	12893.8
Mg 279.078	6931.52	ppb	29.1744	0.4	18975.5
Mn 257.610	148.614	ppb	0.6243	0.4	30191.0
Mo 202.032	0.1628	ppb	0.1436	88.2	6.7898
Na 330.237	5671.93	ppb	88.0897	1.6	280.294
Ni 231.604	1.1968	ppb	0.5461	45.6	-1.2527
Pb 220.353	2.9093	ppb	1.7927	61.6	14.7017
Sb 206.834	2.3964	ppb	0.3843	16.0	-1.2785
Se 196.026	-1.1069	ppb	1.6963	153.3	-1.5014
Sn 189.925	0.7302	ppb	1.9084	261.4	-4.7936
Sr 216.596	107.723	ppb	0.5805	0.5	1393.40
Ti 334.941	-0.0256	ppb	0.0142	55.5	11.3582
Tl 190.794	1.4713	ppb	1.1498	78.1	-8.0137
V 292.401	-0.0208	ppb	0.0995	478.3	-9.9914
Zn 206.200	1.3257	ppb	0.6802	51.3	2.8641

680-107418-b-13-aPDS (Samp) **11/21/2014, 3:35:10 AM** **Rack 3, Tube 53**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	61.8996	61.0132	59.8596
Al 308.215	1041.23	1043.45	1042.00
As 188.980	103.452	108.549	104.784
B 249.678	211.224	213.179	212.945
Ba 389.178	340.567	340.212	340.112
Be 313.042	109.788	109.960	109.897
Ca 370.602	53936	54065	54114
Cd 226.502	106.039	106.094	106.189
Co 228.615	114.593	114.310	114.086
Cr 267.716	108.790	108.712	108.812
Cu 324.754	110.221	110.270	109.439
Fe 271.441	18645.9	18742.9	18736.8
K 766.491	13460.6	13466.0	13393.2
Mg 279.078	45283.1	45345.9	45236.0
Mn 257.610	1857.92	1855.62	1851.82
Mo 202.032	101.757	100.785	100.928
Na 330.237	40223.2	40231.9	40081.9
Ni 231.604	110.741	109.547	110.303
Pb 220.353	103.538	101.157	102.702
Sb 206.834	102.894	106.578	100.527
Se 196.026	96.5401	100.870	100.559
Sn 189.925	102.863	100.884	95.7746
Sr 216.596	627.426	626.819	627.593
Ti 334.941	103.125	103.062	102.884
Tl 190.794	24.3943	18.5119	20.8270
V 292.401	104.026	103.929	104.155
Zn 206.200	110.266	110.529	112.463

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	60.9241	ppb	1.0229	1.7	4966.31
Al 308.215	1042.23	ppb	1.1280	0.1	7528.90
As 188.980	105.595	ppb	2.6435	2.5	51.5667
B 249.678	212.449	ppb	1.0677	0.5	3546.86
Ba 389.178	340.297	ppb	0.2394	0.1	7256.11
Be 313.042	109.882	ppb	0.0869	0.1	200411
Ca 370.602	54038	ppb	91.85	0.2	143811
Cd 226.502	106.107	ppb	0.0759	0.1	4504.45
Co 228.615	114.330	ppb	0.2540	0.2	1318.14
Cr 267.716	108.771	ppb	0.0521	0.0	5909.52
Cu 324.754	109.976	ppb	0.4663	0.4	7725.49
Fe 271.441	18708.5	ppb	54.3531	0.3	30891.5
K 766.491	13439.9	ppb	40.5688	0.3	559462
Mg 279.078	45288.3	ppb	55.1448	0.1	123820
Mn 257.610	1855.12	ppb	3.0799	0.2	375630
Mo 202.032	101.157	ppb	0.5250	0.5	691.389
Na 330.237	40179.0	ppb	84.1834	0.2	1806.13
Ni 231.604	110.197	ppb	0.6039	0.5	329.682
Pb 220.353	102.466	ppb	1.2077	1.2	177.442
Sb 206.834	103.333	ppb	3.0494	3.0	136.416
Se 196.026	99.3230	ppb	2.4151	2.4	42.3226
Sn 189.925	99.8406	ppb	3.6577	3.7	70.3317
Sr 216.596	627.279	ppb	0.4070	0.1	8103.17

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	103.024	ppb	0.1247	0.1	30676.4
Tl 190.794	21.2444	ppb	2.9633	13.9	11.2586
V 292.401	104.037	ppb	0.1133	0.1	2684.91
Zn 206.200	111.086	ppb	1.1998	1.1	124.673

680-107418-b-13-b ms (Samp) **11/21/2014, 3:39:28 AM** **Rack 3, Tube 54**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	22.5967	22.7972	22.4811
Al 308.215	2141.88	2136.47	2129.98
As 188.980	52.3909	42.2032	45.5441
B 249.678	94.3386	93.9109	93.6167
Ba 389.178	289.975	290.025	288.847
Be 313.042	23.0469	23.0433	22.9895
Ca 370.602	45436	45407	45078
Cd 226.502	22.2414	22.2950	22.1269
Co 228.615	28.7628	28.4557	28.9524
Cr 267.716	44.7430	44.7014	44.4630
Cu 324.754	46.4582	45.9506	45.4985
Fe 271.441	10587.4	10577.8	10522.4
K 766.491	3993.63	3996.16	3994.30
Mg 279.078	36914.0	36890.2	36768.2
Mn 257.610	963.422	961.871	961.816
Mo 202.032	40.7808	42.7764	42.0238
Na 330.237	32853.6	32768.0	32746.2
Ni 231.604	47.9836	47.6379	47.5336
Pb 220.353	209.585	209.399	201.207
Sb 206.834	24.2119	18.6722	23.5957
Se 196.026	34.8049	47.1930	35.8640
Sn 189.925	87.0131	80.9217	83.4632
Sr 216.596	575.997	574.418	573.467
Ti 334.941	42.4797	42.4036	42.3888
Tl 190.794	19.4007	16.2311	20.0142
V 292.401	43.1838	43.4081	43.5119
Zn 206.200	48.0875	46.8353	44.9231

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.6250	ppb	0.1599	0.7	1818.79
Al 308.215	2136.11	ppb	5.9570	0.3	14943.8
As 188.980	46.7127	ppb	5.1934	11.1	18.8162
B 249.678	93.9554	ppb	0.3630	0.4	1595.62
Ba 389.178	289.616	ppb	0.6661	0.2	6159.60
Be 313.042	23.0266	ppb	0.0322	0.1	41773.3
Ca 370.602	45307	ppb	199.0	0.4	120592
Cd 226.502	22.2211	ppb	0.0859	0.4	981.462
Co 228.615	28.7236	ppb	0.2507	0.9	330.091
Cr 267.716	44.6358	ppb	0.1511	0.3	2448.47
Cu 324.754	45.9691	ppb	0.4801	1.0	3365.76
Fe 271.441	10562.5	ppb	35.0976	0.3	17443.7
K 766.491	3994.70	ppb	1.3102	0.0	166462
Mg 279.078	36857.4	ppb	78.2243	0.2	100785
Mn 257.610	962.370	ppb	0.9119	0.1	195001
Mo 202.032	41.8603	ppb	1.0078	2.4	289.355

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	32789.3	ppb	56.7419	0.2	1481.15
Ni 231.604	47.7184	ppb	0.2356	0.5	140.176
Pb 220.353	206.730	ppb	4.7839	2.3	345.788
Sb 206.834	22.1600	ppb	3.0361	13.7	25.7191
Se 196.026	39.2873	ppb	6.8670	17.5	16.1694
Sn 189.925	83.7993	ppb	3.0596	3.7	58.1716
Sr 216.596	574.627	ppb	1.2776	0.2	7414.76
Ti 334.941	42.4240	ppb	0.0488	0.1	12668.2
Tl 190.794	18.5486	ppb	2.0304	10.9	9.0762
V 292.401	43.3679	ppb	0.1677	0.4	1113.23
Zn 206.200	46.6153	ppb	1.5936	3.4	53.0588

680-107418-b-13-c ms (Samp) **11/21/2014, 3:43:46 AM** **Rack 3, Tube 55**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	21.9095	22.3510	22.6630
Al 308.215	2112.80	2113.35	2110.27
As 188.980	46.4788	45.0160	43.4105
B 249.678	92.0121	92.4378	93.2506
Ba 389.178	288.796	288.497	288.501
Be 313.042	22.7499	22.7604	22.7481
Ca 370.602	45476	45528	45572
Cd 226.502	21.8853	21.8530	21.9037
Co 228.615	28.1049	27.3997	27.7337
Cr 267.716	43.8535	44.2412	44.3631
Cu 324.754	44.9806	45.5186	45.0932
Fe 271.441	10565.2	10544.4	10543.2
K 766.491	3948.24	3952.05	3955.83
Mg 279.078	36899.9	36932.9	36876.2
Mn 257.610	957.999	958.036	957.298
Mo 202.032	41.9329	41.7419	41.4567
Na 330.237	32385.4	32355.7	32666.3
Ni 231.604	46.9465	48.1667	46.7037
Pb 220.353	202.538	206.129	201.120
Sb 206.834	17.8425	23.8597	21.2361
Se 196.026	37.9167	42.5555	32.1266
Sn 189.925	84.1833	81.8547	80.7258
Sr 216.596	575.583	576.239	574.070
Ti 334.941	41.8236	41.8545	41.8400
Tl 190.794	19.6460	19.2799	16.7244
V 292.401	42.7278	43.2350	43.1315
Zn 206.200	43.1784	44.5789	44.8809

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	22.3078	ppb	0.3786	1.7	1792.82
Al 308.215	2112.14	ppb	1.6453	0.1	14781.0
As 188.980	44.9684	ppb	1.5347	3.4	17.8444
B 249.678	92.5668	ppb	0.6292	0.7	1572.57
Ba 389.178	288.598	ppb	0.1714	0.1	6138.10
Be 313.042	22.7528	ppb	0.0066	0.0	41273.2
Ca 370.602	45525	ppb	48.23	0.1	121173
Cd 226.502	21.8807	ppb	0.0257	0.1	967.233
Co 228.615	27.7461	ppb	0.3528	1.3	318.807

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	44.1526	ppb	0.2661	0.6	2422.45
Cu 324.754	45.1974	ppb	0.2838	0.6	3313.25
Fe 271.441	10550.9	ppb	12.3736	0.1	17424.5
K 766.491	3952.04	ppb	3.7910	0.1	164687
Mg 279.078	36903.0	ppb	28.4358	0.1	100910
Mn 257.610	957.778	ppb	0.4159	0.0	194072
Mo 202.032	41.7105	ppb	0.2397	0.6	288.339
Na 330.237	32469.1	ppb	171.429	0.5	1466.98
Ni 231.604	47.2723	ppb	0.7840	1.7	138.827
Pb 220.353	203.262	ppb	2.5818	1.3	340.166
Sb 206.834	20.9794	ppb	3.0168	14.4	24.1075
Se 196.026	37.5329	ppb	5.2250	13.9	15.4124
Sn 189.925	82.2546	ppb	1.7631	2.1	57.0009
Sr 216.596	575.297	ppb	1.1126	0.2	7423.36
Ti 334.941	41.8393	ppb	0.0155	0.0	12494.6
Tl 190.794	18.5501	ppb	1.5916	8.6	9.0771
V 292.401	43.0314	ppb	0.2680	0.6	1104.49
Zn 206.200	44.2127	ppb	0.9084	2.1	50.3755

680-107418-b-14-a (Samp) **11/21/2014, 3:48:04 AM** **Rack 3, Tube 56**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.2115u	0.0882u	0.0756u
Al 308.215	2.5914	2.5546	2.2979
As 188.980	1.5098	5.9087	-0.9169u
B 249.678	23.7166	22.8936	23.2010
Ba 389.178	7.3729	7.8757	8.4968
Be 313.042	0.0057	0.0099	-0.0002
Ca 370.602	21497	21514	21395
Cd 226.502	-0.1557u	-0.2575u	-0.0892u
Co 228.615	0.2368	-0.4001u	0.2044
Cr 267.716	0.0509	0.1340	0.1687
Cu 324.754	1.2761	1.4285	1.4859
Fe 271.441	9.5050	7.3213	11.2509
K 766.491	3032.69	3042.41	3035.60
Mg 279.078	7996.75	8011.65	7981.41
Mn 257.610	0.0688	0.1189	0.1997
Mo 202.032	0.6266	0.1690	1.0624
Na 330.237	13482.4	13746.9	13441.2
Ni 231.604	0.9252	0.7972	0.9026
Pb 220.353	2.3657	2.8102	1.6728
Sb 206.834	1.8436	3.0251	-2.1387u
Se 196.026	-3.5772u	-8.9423u	-5.5180u
Sn 189.925	-1.8839u	-1.6791u	-0.1583u
Sr 216.596	319.924	320.437	319.419
Ti 334.941	0.0038	-0.0437	-0.0273
Tl 190.794	1.3060	2.1960	2.6483
V 292.401	-0.2591u	-0.7743u	-0.3718u
Zn 206.200	26.4700	26.6391	25.7149

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.0159	ppb	0.1695	1066.5	-35.1124
Al 308.215	2.4813	ppb	0.1599	6.4	453.882

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	2.1672	ppb	3.4600	159.7	-5.9370
B 249.678	23.2704	ppb	0.4159	1.8	445.222
Ba 389.178	7.9151	ppb	0.5630	7.1	127.483
Be 313.042	0.0052	ppb	0.0051	99.1	-276.894
Ca 370.602	21469	ppb	64.54	0.3	57175
Cd 226.502	-0.1675	ppb	0.0848	50.6	10.2815
Co 228.615	0.0137	ppb	0.3587	2619.6	-1.6907
Cr 267.716	0.1179	ppb	0.0605	51.3	41.4440
Cu 324.754	1.3968	ppb	0.1084	7.8	327.879
Fe 271.441	9.3591	ppb	1.9689	21.0	32.2789
K 766.491	3036.90	ppb	4.9894	0.2	126609
Mg 279.078	7996.60	ppb	15.1250	0.2	21890.9
Mn 257.610	0.1291	ppb	0.0661	51.2	165.023
Mo 202.032	0.6193	ppb	0.4467	72.1	9.9690
Na 330.237	13556.8	ppb	165.901	1.2	630.175
Ni 231.604	0.8750	ppb	0.0683	7.8	-2.3657
Pb 220.353	2.2829	ppb	0.5732	25.1	13.5374
Sb 206.834	0.9100	ppb	2.7055	297.3	-3.3423
Se 196.026	-6.0125	ppb	2.7165	45.2	-3.6635
Sn 189.925	-1.2404	ppb	0.9427	76.0	-6.2846
Sr 216.596	319.927	ppb	0.5093	0.2	4121.32
Ti 334.941	-0.0224	ppb	0.0241	107.5	13.4179
Tl 190.794	2.0501	ppb	0.6829	33.3	-7.2241
V 292.401	-0.4684	ppb	0.2709	57.8	-21.2298
Zn 206.200	26.2747	ppb	0.4921	1.9	30.8068

680-107113-a-4-b^10 (Samp) **11/21/2014, 3:52:22 AM** **Rack 3, Tube 57**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.7592u	-1.6918u	-1.7312u
Al 308.215	11698.4	11666.4	11689.8
As 188.980	5.5920	8.5965	12.3144
B 249.678	0.3929	0.4087	0.0455
Ba 389.178	-4.9417u	-6.2361u	-5.7650u
Be 313.042	1.3352	1.3331	1.3279
Ca 370.602	20150	20191	20152
Cd 226.502	16.2528	16.2221	16.1081
Co 228.615	149.958	148.928	148.399
Cr 267.716	0.1968	0.2839	0.2047
Cu 324.754	186.145	185.592	184.908
Fe 271.441	307.313	303.929	303.312
K 766.491	1450.73	1445.88	1447.89
Mg 279.078	33846.7	33783.1	33758.2
Mn 257.610	16600.9	16518.1	16521.8
Mo 202.032	0.0267	-0.3208u	-0.6214u
Na 330.237	7065.14	7172.35	6965.48
Ni 231.604	3834.34	3876.72	3840.12
Pb 220.353	2.2116	-0.5993	0.0096
Sb 206.834	3.1410	1.2348	-0.9731u
Se 196.026	-8.6858u	-7.4700	-13.2369u
Sn 189.925	0.8991	1.8418	-0.2161u
Sr 216.596	60.2066	59.9445	60.8297
Ti 334.941	-0.1311	-0.1289	-0.1259

Label	Replicates Concentration		
Tl 190.794	2.5340	4.9017	1.2684
V 292.401	-1.3028u	-1.0302u	-1.4493u
Zn 206.200	7619.78	7610.97	7596.61

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.7274	ppb	0.0339	2.0	-84.0270
Al 308.215	11684.9	ppb	16.5606	0.1	79746.8
As 188.980	8.8343	ppb	3.3675	38.1	-2.2234
B 249.678	0.2824	ppb	0.2053	72.7	62.5516
Ba 389.178	-5.6476	ppb	0.6552	11.6	-109.019
Be 313.042	1.3320	ppb	0.0037	0.3	2143.47
Ca 370.602	20164	ppb	22.95	0.1	54091
Cd 226.502	16.1943	ppb	0.0762	0.5	693.136
Co 228.615	149.095	ppb	0.7931	0.5	1718.42
Cr 267.716	0.2285	ppb	0.0481	21.1	127.550
Cu 324.754	185.548	ppb	0.6199	0.3	12857.6
Fe 271.441	304.851	ppb	2.1543	0.7	537.487
K 766.491	1448.17	ppb	2.4334	0.2	60504.2
Mg 279.078	33796.0	ppb	45.6013	0.1	92086.1
Mn 257.610	16546.9	ppb	46.7798	0.3	3346705
Mo 202.032	-0.3051	ppb	0.3243	106.3	3.6804
Na 330.237	7067.66	ppb	103.459	1.5	193.856
Ni 231.604	3850.39	ppb	22.9827	0.6	11644.2
Pb 220.353	0.5406	ppb	1.4788	273.5	14.0144
Sb 206.834	1.1342	ppb	2.0589	181.5	-2.9945
Se 196.026	-9.7975	ppb	3.0400	31.0	-1.7190
Sn 189.925	0.8416	ppb	1.0302	122.4	-4.7091
Sr 216.596	60.3270	ppb	0.4547	0.8	674.679
Ti 334.941	-0.1287	ppb	0.0026	2.0	29.3688
Tl 190.794	2.9014	ppb	1.8443	63.6	2.1834
V 292.401	-1.2607	ppb	0.2127	16.9	-41.6423
Zn 206.200	7609.12	ppb	11.6975	0.2	8504.71

CRI (Samp) **11/21/2014, 3:56:41 AM** **Rack 3, Tube 58**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.5412	10.1080	10.2607
Al 308.215	197.681	196.062	196.784
As 188.980	18.0416	21.4266	21.9784
B 249.678	98.5217	98.9844	100.101
Ba 389.178	10.2978	10.3786	10.6759
Be 313.042	4.3933	4.3793	4.3894
Ca 370.602	515.1	507.0	518.9
Cd 226.502	5.2629	5.3677	5.1679
Co 228.615	10.8206	10.7518	11.1021
Cr 267.716	10.6679	10.3735	10.6646
Cu 324.754	22.3039	21.3190	21.8578
Fe 271.441	52.1325	54.0408	53.8153
K 766.491	1042.43	1035.95	1044.44
Mg 279.078	504.906	506.739	506.861
Mn 257.610	11.4829	11.5290	11.8236
Mo 202.032	9.9393	9.9932	9.7919
Na 330.237	1113.55	887.097	1006.24

Label	Replicates Concentration		
Ni 231.604	43.5729	41.8999	42.6073
Pb 220.353	12.2422	10.8337	9.6282
Sb 206.834	22.4775	22.5105	20.2072
Se 196.026	15.9210	11.7020	18.2397
Sn 189.925	50.4195	49.7828	50.2061
Sr 216.596	9.9150	9.9977	9.6813
Ti 334.941	10.1725	10.1603	10.2198
Tl 190.794	26.9428	23.9773	25.3840
V 292.401	10.7911	10.1214	10.5116
Zn 206.200	22.9892	22.5367	21.7388

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.3033	ppb	0.2197	2.1	823.104
Al 308.215	196.842	ppb	0.8108	0.4	1774.70
As 188.980	20.4822	ppb	2.1316	10.4	4.2659
B 249.678	99.2022	ppb	0.8117	0.8	1707.09
Ba 389.178	10.4508	ppb	0.1991	1.9	166.528
Be 313.042	4.3873	ppb	0.0072	0.2	7720.89
Ca 370.602	513.7	ppb	6.078	1.2	1378
Cd 226.502	5.2662	ppb	0.1000	1.9	236.668
Co 228.615	10.8915	ppb	0.1856	1.7	123.767
Cr 267.716	10.5686	ppb	0.1690	1.6	603.964
Cu 324.754	21.8269	ppb	0.4931	2.3	1718.15
Fe 271.441	53.3295	ppb	1.0428	2.0	106.197
K 766.491	1040.94	ppb	4.4386	0.4	43560.3
Mg 279.078	506.169	ppb	1.0953	0.2	1409.20
Mn 257.610	11.6118	ppb	0.1848	1.6	2433.55
Mo 202.032	9.9081	ppb	0.1042	1.1	73.0044
Na 330.237	1002.29	ppb	113.276	11.3	72.9704
Ni 231.604	42.6934	ppb	0.8398	2.0	124.136
Pb 220.353	10.9013	ppb	1.3083	12.0	27.4962
Sb 206.834	21.7317	ppb	1.3204	6.1	25.0355
Se 196.026	15.2876	ppb	3.3146	21.7	5.5249
Sn 189.925	50.1361	ppb	0.3241	0.6	32.6489
Sr 216.596	9.8647	ppb	0.1641	1.7	129.737
Ti 334.941	10.1842	ppb	0.0314	0.3	3031.40
Tl 190.794	25.4347	ppb	1.4834	5.8	17.4700
V 292.401	10.4747	ppb	0.3364	3.2	263.109
Zn 206.200	22.4216	ppb	0.6331	2.8	26.4772

Cont Calib Verif (CCV) **11/21/2014, 4:00:59 AM** **Rack 4, Tube 1**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	499.769	505.263	504.566
Al 308.215	4916.20	4910.45	4910.31
As 188.980	490.595	483.746	496.825
B 249.678	493.325	497.688	497.483
Ba 389.178	5254.47	5246.73	5248.30
Be 313.042	532.329	530.456	532.261
Ca 370.602	4933	4948	4955
Cd 226.502	522.978	523.164	523.459
Co 228.615	528.092	528.053	528.781
Cr 267.716	5231.83	5242.34	5236.06

Label	Replicates Concentration		
Cu 324.754	5295.46	5350.44	5364.80
Fe 271.441	4971.37	4985.94	4974.94
K 766.491	10388.8	10395.8	10355.9
Mg 279.078	4971.36	4965.55	4972.88
Mn 257.610	5328.62	5316.85	5326.59
Mo 202.032	496.539	497.345	496.369
Na 330.237	7699.96	7844.78	7544.00
Ni 231.604	2601.83	2618.43	2613.54
Pb 220.353	497.758	491.812	498.209
Sb 206.834	978.144	984.339	979.775
Se 196.026	4900.29	4893.81	4886.89
Sn 189.925	4964.70	4917.00	4955.39
Sr 216.596	2495.76	2495.24	2481.41
Ti 334.941	500.991	500.345	500.411
Tl 190.794	5007.64	5000.67	5007.23
V 292.401	4941.25	4952.47	4957.74
Zn 206.200	2633.96	2626.21	2636.25

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	503.200	ppb	2.9913	0.6	41267.3	100.63992
Al 308.215	4912.32	ppb	3.3627	0.1	34455.7	98.24634
As 188.980	490.389	ppb	6.5422	1.3	265.958	98.07771
B 249.678	496.165	ppb	2.4616	0.5	8305.95	99.23308
Ba 389.178	5249.83	ppb	4.0902	0.1	111176	104.99663
Be 313.042	531.682	ppb	1.0622	0.2	971034	106.33639
Ca 370.602	4945	ppb	10.97	0.2	13499	98.90270
Cd 226.502	523.200	ppb	0.2423	0.0	21821.9	104.64006
Co 228.615	528.309	ppb	0.4094	0.1	6099.76	105.66174
Cr 267.716	5236.74	ppb	5.2892	0.1	282035	104.73486
Cu 324.754	5336.90	ppb	36.5996	0.7	363307	106.73801
Fe 271.441	4977.42	ppb	7.5965	0.2	8335.58	99.54836
K 766.491	10380.2	ppb	21.3086	0.2	432152	103.80190
Mg 279.078	4969.93	ppb	3.8690	0.1	13502.3	99.39855
Mn 257.610	5324.02	ppb	6.2903	0.1	1076838	106.48039
Mo 202.032	496.751	ppb	0.5212	0.1	3371.90	99.35015
Na 330.237	7696.25	ppb	150.426	2.0	318.340	102.61662
Ni 231.604	2611.27	ppb	8.5346	0.3	7894.65	104.45071
Pb 220.353	495.926	ppb	3.5705	0.7	818.403	99.18526
Sb 206.834	980.753	ppb	3.2109	0.3	1391.31	98.07526
Se 196.026	4893.66	ppb	6.7011	0.1	2110.50	97.87328
Sn 189.925	4945.69	ppb	25.2852	0.5	3742.92	98.91389
Sr 216.596	2490.80	ppb	8.1365	0.3	31916.6	99.63219
Ti 334.941	500.582	ppb	0.3559	0.1	148645	100.11644
Tl 190.794	5005.18	ppb	3.9121	0.1	5282.56	100.10365
V 292.401	4950.48	ppb	8.4232	0.2	129287	99.00967
Zn 206.200	2632.14	ppb	5.2611	0.2	2931.65	105.28551

Cont Calib Blank (CCB) **11/21/2014, 4:05:18 AM** **Rack 4, Tube 2**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1646u	0.1955	0.1788
Al 308.215	0.7216	0.3577	1.6234
As 188.980	5.1057	1.5306	-0.0863u

Label	Replicates Concentration		
B 249.678	7.7930	6.0458	5.9775
Ba 389.178	0.0475	0.6879	0.8099
Be 313.042	0.0168	0.0255	0.0296
Ca 370.602	11.71	11.02	5.883
Cd 226.502	-0.0820u	0.1053	0.1511
Co 228.615	-0.0606u	-0.0606u	0.1022
Cr 267.716	0.1463	0.1754	0.2379
Cu 324.754	-0.3527u	-0.0074u	-0.1595u
Fe 271.441	0.6204	0.6851	2.0866
K 766.491	2.1916	2.5670	2.1123
Mg 279.078	2.7728	0.7826	-0.7972u
Mn 257.610	0.2656	0.3250	0.3746
Mo 202.032	0.6142	0.4708	0.5497
Na 330.237	8.8502	46.5799	-1.2810u
Ni 231.604	1.5962	0.0919	1.0614
Pb 220.353	1.5900	1.5815	1.7950
Sb 206.834	4.7300	4.3718	4.0177
Se 196.026	-4.8672u	2.7824	5.4381
Sn 189.925	3.6935	0.0656	-1.2892u
Sr 216.596	0.7062	0.2056	0.2770
Ti 334.941	0.0912	0.1172	0.0672
Tl 190.794	3.3774	4.1537	1.5111
V 292.401	-0.0984u	0.0614	-0.1140u
Zn 206.200	0.6037	-1.8205u	1.0721

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0699	ppb	0.2032	290.9	-17.2692	0.06988
Al 308.215	0.9009	ppb	0.6516	72.3	443.184	0.90090
As 188.980	2.1833	ppb	2.6569	121.7	-5.9279	2.18334
B 249.678	6.6054	ppb	1.0290	15.6	168.368	6.60543
Ba 389.178	0.5151	ppb	0.4095	79.5	-45.0381	0.51508
Be 313.042	0.0240	ppb	0.0065	27.2	-248.120	0.02397
Ca 370.602	9.539	ppb	3.185	33.4	31.18	9.53920
Cd 226.502	0.0582	ppb	0.1235	212.3	19.6218	0.05815
Co 228.615	-0.0064	ppb	0.0940	1479.1	-1.9199	-0.00636
Cr 267.716	0.1865	ppb	0.0468	25.1	44.8728	0.18654
Cu 324.754	-0.1732	ppb	0.1731	99.9	221.043	-0.17321
Fe 271.441	1.1307	ppb	0.8285	73.3	18.7118	1.13068
K 766.491	2.2903	ppb	0.2429	10.6	343.473	2.29030
Mg 279.078	0.9194	ppb	1.7889	194.6	27.9912	0.91940
Mn 257.610	0.3217	ppb	0.0546	17.0	146.515	0.32173
Mo 202.032	0.5449	ppb	0.0718	13.2	9.4637	0.54487
Na 330.237	18.0497	ppb	25.2218	139.7	29.7288	18.04966
Ni 231.604	0.9165	ppb	0.7626	83.2	-2.2409	0.91648
Pb 220.353	1.6555	ppb	0.1209	7.3	12.5202	1.65550
Sb 206.834	4.3732	ppb	0.3561	8.1	1.3827	4.37318
Se 196.026	1.1178	ppb	5.3505	478.7	-0.5887	1.11778
Sn 189.925	0.8233	ppb	2.5763	312.9	-4.7248	0.82332
Sr 216.596	0.3963	ppb	0.2708	68.3	9.2141	0.39629
Ti 334.941	0.0919	ppb	0.0250	27.2	34.0114	0.09186
Tl 190.794	3.0141	ppb	1.3582	45.1	-6.2047	3.01405
V 292.401	-0.0503	ppb	0.0970	192.8	-10.2443	-0.05032
Zn 206.200	-0.0482	ppb	1.5526	3219.9	1.3907	-0.04822

mb 680-359022/1-a (Samp) **11/21/2014, 4:09:37 AM** **Rack 4, Tube 3**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1662	0.2811	0.0968
Al 308.215	3.6851	3.4627	3.0971
As 188.980	0.7667	-3.8199u	-4.7764u
B 249.678	2.3102	1.6602	1.7695
Ba 389.178	0.1743	0.0833	-0.4733u
Be 313.042	-0.0042u	0.0002	-0.0027u
Ca 370.602	15.64	20.78	20.77
Cd 226.502	-0.0540u	0.0795	0.1019
Co 228.615	0.5447	-0.0005u	0.1745
Cr 267.716	0.6349	0.6216	0.6280
Cu 324.754	4.7241	4.8296	4.3428
Fe 271.441	7.8948	12.4311	3.3048
K 766.491	9.5273	8.7316	8.9196
Mg 279.078	3.5266	1.6020	0.2427
Mn 257.610	0.1752	0.1389	0.1363
Mo 202.032	0.1101	0.3419	-0.1831u
Na 330.237	6.6898	45.2210	36.0460
Ni 231.604	-0.1803u	0.1135	0.5818
Pb 220.353	1.2673	4.6006	3.9777
Sb 206.834	1.7622	1.4683	0.2524
Se 196.026	-9.6737u	1.6097	-1.2552u
Sn 189.925	9.7628	9.0139	5.4439
Sr 216.596	0.2029	-0.2240u	1.1230
Ti 334.941	0.0842	0.1176	0.1092
Tl 190.794	2.0836	-0.9011u	0.9739
V 292.401	-0.4754u	-0.1556u	-0.5350u
Zn 206.200	2.4457	2.5133	0.8064

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1814	ppb	0.0931	51.3	-8.1222
Al 308.215	3.4150	ppb	0.2969	8.7	460.226
As 188.980	-2.6099	ppb	2.9630	113.5	-8.5987
B 249.678	1.9133	ppb	0.3480	18.2	90.3371
Ba 389.178	-0.0719	ppb	0.3506	487.6	-57.4660
Be 313.042	-0.0022	ppb	0.0022	101.1	-295.888
Ca 370.602	19.06	ppb	2.963	15.5	56.48
Cd 226.502	0.0425	ppb	0.0843	198.6	18.9897
Co 228.615	0.2395	ppb	0.2784	116.2	0.9251
Cr 267.716	0.6282	ppb	0.0066	1.1	68.6597
Cu 324.754	4.6322	ppb	0.2561	5.5	547.989
Fe 271.441	7.8769	ppb	4.5632	57.9	29.8489
K 766.491	9.0595	ppb	0.4159	4.6	625.129
Mg 279.078	1.7904	ppb	1.6500	92.2	30.3759
Mn 257.610	0.1501	ppb	0.0218	14.5	111.845
Mo 202.032	0.0896	ppb	0.2631	293.5	6.3736
Na 330.237	29.3189	ppb	20.1272	68.6	30.1888
Ni 231.604	0.1717	ppb	0.3844	223.9	-4.4941
Pb 220.353	3.2819	ppb	1.7722	54.0	15.1579
Sb 206.834	1.1609	ppb	0.8004	68.9	-2.9815
Se 196.026	-3.1064	ppb	5.8651	188.8	-2.4104
Sn 189.925	8.0735	ppb	2.3079	28.6	0.7700
Sr 216.596	0.3673	ppb	0.6884	187.4	8.8831

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	0.1037	ppb	0.0174	16.8	37.5255
Tl 190.794	0.7188	ppb	1.5086	209.9	-8.6267
V 292.401	-0.3887	ppb	0.2040	52.5	-19.0490
Zn 206.200	1.9218	ppb	0.9666	50.3	3.5910

lcs 680-359022/2-a (Samp) **11/21/2014, 4:13:56 AM** **Rack 4, Tube 4**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	52.8126	51.4857	51.7836
Al 308.215	4944.24	4932.27	4942.88
As 188.980	105.387	106.375	101.044
B 249.678	191.788	193.230	192.711
Ba 389.178	104.608	103.894	105.530
Be 313.042	54.1972	54.0005	54.2333
Ca 370.602	4973	4933	4937
Cd 226.502	53.1763	52.8793	52.8831
Co 228.615	53.6145	52.2350	53.4125
Cr 267.716	107.397	107.225	107.654
Cu 324.754	108.248	107.562	108.826
Fe 271.441	5013.55	4976.67	4985.18
K 766.491	5110.46	5111.25	5107.71
Mg 279.078	4935.70	4916.41	4923.97
Mn 257.610	545.534	544.596	545.522
Mo 202.032	99.8088	99.0838	99.7460
Na 330.237	5034.56	4984.34	4978.37
Ni 231.604	106.846	103.342	104.841
Pb 220.353	493.248	491.511	498.483
Sb 206.834	54.9957	51.3611	50.6976
Se 196.026	84.5291	100.354	101.938
Sn 189.925	205.675	208.309	202.998
Sr 216.596	99.2025	97.2775	98.1349
Ti 334.941	102.195	102.058	102.223
Tl 190.794	43.3195	39.8980	44.0349
V 292.401	100.995	100.525	100.883
Zn 206.200	108.753	109.300	106.773

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	52.0273	ppb	0.6962	1.3	4249.61
Al 308.215	4939.80	ppb	6.5523	0.1	33981.9
As 188.980	104.269	ppb	2.8360	2.7	50.9040
B 249.678	192.576	ppb	0.7301	0.4	3247.62
Ba 389.178	104.677	ppb	0.8204	0.8	2175.45
Be 313.042	54.1437	ppb	0.1253	0.2	98594.4
Ca 370.602	4948	ppb	21.79	0.4	13188
Cd 226.502	52.9796	ppb	0.1704	0.3	2241.54
Co 228.615	53.0873	ppb	0.7450	1.4	610.548
Cr 267.716	107.425	ppb	0.2162	0.2	5824.07
Cu 324.754	108.212	ppb	0.6327	0.6	7599.88
Fe 271.441	4991.80	ppb	19.3071	0.4	8258.24
K 766.491	5109.81	ppb	1.8581	0.0	212860
Mg 279.078	4925.36	ppb	9.7187	0.2	13479.8
Mn 257.610	545.217	ppb	0.5384	0.1	110393
Mo 202.032	99.5462	ppb	0.4017	0.4	681.106

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	4999.09	ppb	30.8601	0.6	247.625
Ni 231.604	105.010	ppb	1.7582	1.7	312.990
Pb 220.353	494.414	ppb	3.6293	0.7	811.537
Sb 206.834	52.3515	ppb	2.3139	4.4	66.6525
Se 196.026	95.6071	ppb	9.6264	10.1	40.3199
Sn 189.925	205.661	ppb	2.6552	1.3	150.520
Sr 216.596	98.2050	ppb	0.9644	1.0	1269.94
Ti 334.941	102.159	ppb	0.0884	0.1	30348.4
Tl 190.794	42.4175	ppb	2.2110	5.2	34.8671
V 292.401	100.801	ppb	0.2459	0.2	2605.28
Zn 206.200	108.275	ppb	1.3293	1.2	122.035

680-107275-c-8-a (Samp) **11/21/2014, 4:18:15 AM** **Rack 4, Tube 5**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.3182u	-1.3621u	-1.8546u
Al 308.215	183312	187590	182978
As 188.980	83.8943	81.6710	69.9237
B 249.678	10.4215u	8.8637u	8.9684u
Ba 389.178	996.996	1017.98	994.954
Be 313.042	17.6646	18.0287	17.6258
Ca 370.602	74836	76682	75118
Cd 226.502	-0.0043	0.5116	-0.4219
Co 228.615	222.666	227.860	221.268
Cr 267.716	525.346	538.203	525.529
Cu 324.754	285.141	290.143	282.758
Fe 271.441	289400	295956	289142
K 766.491	27018.1	27673.0	26936.4
Mg 279.078	32214.4	32962.9	32238.3
Mn 257.610	6922.01	7096.96	6922.10
Mo 202.032	2.4317	2.5521	2.6587
Na 330.237	32.5145u	198.292u	394.928u
Ni 231.604	152.137	159.531	155.671
Pb 220.353	236.855	239.517	243.136
Sb 206.834	0.9940	-5.3169	6.7200
Se 196.026	-2.5302	10.9701	10.4727
Sn 189.925	18.9967	29.8116	20.6537
Sr 216.596	107.398	109.778	107.235
Ti 334.941	10782.5	10999.6	10716.4
Tl 190.794	10.0559u	11.3151u	8.1708u
V 292.401	885.708	904.549	886.122
Zn 206.200	495.734	513.858	499.285

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.5117	ppb	0.2978	19.7	-162.590
Al 308.215	184627	ppb	2571.58	1.4	1253739
As 188.980	78.4963	ppb	7.5069	9.6	34.9871
B 249.678	9.4179	ppb	0.8708	9.2	-460.559
Ba 389.178	1003.31	ppb	12.7450	1.3	21476.7
Be 313.042	17.7730	ppb	0.2222	1.3	32250.9
Ca 370.602	75545	ppb	994.2	1.3	203003
Cd 226.502	0.0285	ppb	0.4676	1642.4	1069.86
Co 228.615	223.931	ppb	3.4732	1.6	2835.19

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	529.692	ppb	7.3709	1.4	28750.9
Cu 324.754	286.014	ppb	3.7690	1.3	19798.5
Fe 271.441	291499	ppb	3862.06	1.3	480886
K 766.491	27209.2	ppb	403.778	1.5	1132380
Mg 279.078	32471.8	ppb	425.434	1.3	88599.0
Mn 257.610	6980.35	ppb	100.979	1.4	1412808
Mo 202.032	2.5475	ppb	0.1135	4.5	8.3620
Na 330.237	208.578	ppb	181.425	87.0	-36.0791
Ni 231.604	155.780	ppb	3.6980	2.4	490.228
Pb 220.353	239.836	ppb	3.1526	1.3	412.192
Sb 206.834	0.7990	ppb	6.0208	753.5	8.3108
Se 196.026	6.3042	ppb	7.6548	121.4	5.6401
Sn 189.925	23.1540	ppb	5.8249	25.2	12.1986
Sr 216.596	108.137	ppb	1.4237	1.3	1827.75
Ti 334.941	10832.8	ppb	148.141	1.4	3216511
Tl 190.794	9.8473	ppb	1.5825	16.1	-37.6100
V 292.401	892.127	ppb	10.7604	1.2	23298.2
Zn 206.200	502.959	ppb	9.6041	1.9	551.741

680-107275-c-8-aSD^5 (Samp) **11/21/2014, 4:22:34 AM** **Rack 4, Tube 6**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0505	-0.7066u	-0.4128u
Al 308.215	45195.6	43933.9	42398.9
As 188.980	17.4196	17.9831	14.5619
B 249.678	1.4963u	1.3214u	2.6210u
Ba 389.178	247.882	242.339	234.043
Be 313.042	4.4418	4.3426	4.1678
Ca 370.602	18722	18239	17616
Cd 226.502	0.1451	-0.2459	-0.4023
Co 228.615	57.0607	55.9552	54.2978
Cr 267.716	133.380	130.155	125.452
Cu 324.754	68.4444	65.9922	64.3432
Fe 271.441	73400.0	71518.8	68960.0
K 766.491	6178.14	6006.67	5830.03
Mg 279.078	8267.37	8039.37	7758.79
Mn 257.610	1808.96	1763.22	1699.82
Mo 202.032	0.8803	0.8406	0.9513
Na 330.237	-5.4551u	-80.3877u	262.816u
Ni 231.604	40.2374	39.2018	36.8576
Pb 220.353	62.6286	61.6544	58.0447
Sb 206.834	0.5298	-0.3663	-1.2880
Se 196.026	3.3159	-1.6283	11.5069
Sn 189.925	7.6431	4.6169	3.6954
Sr 216.596	27.0989	26.1286	25.4088
Ti 334.941	2729.45	2657.70	2567.72
Tl 190.794	5.7764u	9.6658	4.2282u
V 292.401	224.294	218.555	211.265
Zn 206.200	126.786	125.431	120.976

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.3563	ppb	0.3817	107.1	-55.7497
Al 308.215	43842.8	ppb	1400.59	3.2	298056

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	16.6549	ppb	1.8344	11.0	1.7431
B 249.678	1.8129	ppb	0.7053	38.9	-76.3975
Ba 389.178	241.421	ppb	6.9650	2.9	5126.55
Be 313.042	4.3174	ppb	0.1387	3.2	7613.38
Ca 370.602	18193	ppb	554.5	3.0	48899
Cd 226.502	-0.1677	ppb	0.2820	168.1	267.122
Co 228.615	55.7713	ppb	1.3906	2.5	703.568
Cr 267.716	129.662	ppb	3.9867	3.1	7064.35
Cu 324.754	66.2599	ppb	2.0637	3.1	4766.88
Fe 271.441	71292.9	ppb	2228.62	3.1	117625
K 766.491	6004.95	ppb	174.063	2.9	250105
Mg 279.078	8021.84	ppb	254.742	3.2	21906.6
Mn 257.610	1757.33	ppb	54.8088	3.1	355734
Mo 202.032	0.8907	ppb	0.0561	6.3	8.2215
Na 330.237	58.9910	ppb	180.450	305.9	13.3761
Ni 231.604	38.7656	ppb	1.7316	4.5	118.115
Pb 220.353	60.7759	ppb	2.4149	4.0	111.702
Sb 206.834	-0.3748	ppb	0.9089	242.5	-2.2058
Se 196.026	4.3982	ppb	6.6341	150.8	1.8134
Sn 189.925	5.3185	ppb	2.0652	38.8	-1.3181
Sr 216.596	26.2121	ppb	0.8481	3.2	447.028
Ti 334.941	2651.62	ppb	81.0365	3.1	787334
Tl 190.794	6.5568	ppb	2.8015	42.7	-11.8711
V 292.401	218.038	ppb	6.5294	3.0	5687.45
Zn 206.200	124.397	ppb	3.0395	2.4	137.586

680-107275-c-8-aPDS (Samp) **11/21/2014, 4:26:53 AM** **Rack 4, Tube 7**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	92.1128	92.0325	92.7934
Al 308.215	183429	183188	183416
As 188.980	175.365	176.524	181.430
B 249.678	185.328	186.021	186.715
Ba 389.178	1062.94	1060.26	1061.40
Be 313.042	113.813	113.633	113.956
Ca 370.602	83058	83340	83703
Cd 226.502	91.1204	91.3937	91.6022
Co 228.615	312.732	311.558	313.945
Cr 267.716	615.064	614.185	616.368
Cu 324.754	383.134	379.121	382.587
Fe 271.441	294821	294700	295746
K 766.491	37055.0x	37061.1x	37056.3x
Mg 279.078	40787.0	40863.6	40922.0
Mn 257.610	7813.08	7790.47	7779.18
Mo 202.032	92.2417	90.9877	90.4845
Na 330.237	8763.07	8936.20	9117.94
Ni 231.604	243.258	241.634	242.865
Pb 220.353	315.473	319.931	320.552
Sb 206.834	92.7845	90.4074	95.3123
Se 196.026	85.9968	97.2351	92.1954
Sn 189.925	105.062	109.116	109.055
Sr 216.596	193.875	192.801	194.378
Ti 334.941	10750.8	10745.0	10764.0

Label	Replicates Concentration		
Tl 190.794	29.6443u	34.7645u	28.1746u
V 292.401	967.404	966.802	972.150
Zn 206.200	584.300	588.310	593.994

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	92.3129b	ppb	0.4181	0.5	7545.33
Al 308.215	183344b	ppb	135.518	0.1	1245047
As 188.980	177.773b	ppb	3.2197	1.8	90.2642
B 249.678	186.021b	ppb	0.6933	0.4	2467.00
Ba 389.178	1061.53b	ppb	1.3438	0.1	22729.7
Be 313.042	113.800b	ppb	0.1618	0.1	207639
Ca 370.602	83367b	ppb	323.8	0.4	223787
Cd 226.502	91.3721b	ppb	0.2416	0.3	4886.78
Co 228.615	312.745b	ppb	1.1932	0.4	3856.31
Cr 267.716	615.206b	ppb	1.0986	0.2	33360.1
Cu 324.754	381.614b	ppb	2.1766	0.6	26306.8
Fe 271.441	295089b	ppb	572.447	0.2	486819
K 766.491	37057.5xb	ppb	3.2275	0.0	1542153
Mg 279.078	40857.5b	ppb	67.7314	0.2	111512
Mn 257.610	7794.24b	ppb	17.2626	0.2	1577476
Mo 202.032	91.2379b	ppb	0.9050	1.0	610.113
Na 330.237	8939.07b	ppb	177.453	2.0	349.007
Ni 231.604	242.586b	ppb	0.8471	0.3	752.945
Pb 220.353	318.652b	ppb	2.7706	0.9	540.330
Sb 206.834	92.8347b	ppb	2.4528	2.6	133.538
Se 196.026	91.8091b	ppb	5.6291	6.1	42.7201
Sn 189.925	107.744b	ppb	2.3234	2.2	76.3111
Sr 216.596	193.685b	ppb	0.8056	0.4	2930.77
Ti 334.941	10753.2b	ppb	9.7279	0.1	3192901
Tl 190.794	30.8611b	ppb	3.4593	11.2	-15.5047
V 292.401	968.786b	ppb	2.9294	0.3	25282.6
Zn 206.200	588.868b	ppb	4.8712	0.8	647.435

680-107275-c-8-b ms (Samp) **11/21/2014, 4:31:12 AM** **Rack 4, Tube 8**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	46.2775	47.4741	47.5218
Al 308.215	184970	184923	184878
As 188.980	202.720	200.744	200.529
B 249.678	162.541	163.573	164.016
Ba 389.178	971.455	972.410	971.921
Be 313.042	64.8375	64.8119	64.8252
Ca 370.602	28919	28879	28811
Cd 226.502	45.6508	45.3972	45.7158
Co 228.615	278.937	273.510	277.863
Cr 267.716	571.757	571.816	572.380
Cu 324.754	362.597	357.930	362.934
Fe 271.441	291347	291112	291006
K 766.491	31433.4	31443.3	31501.8
Mg 279.078	34467.7	34415.5	34430.9
Mn 257.610	7576.33	7554.13	7576.86
Mo 202.032	84.3959	85.1106	84.6708
Na 330.237	4887.08	4834.69	4821.78

Label	Replicates Concentration		
Ni 231.604	251.873	251.075	253.756
Pb 220.353	631.654	628.719	631.791
Sb 206.834	18.4641	24.8239	17.8542
Se 196.026	91.2017	90.6683	83.1523
Sn 189.925	182.265	187.722	184.879
Sr 216.596	129.725	128.753	131.377
Ti 334.941	10839.6	10811.8	10843.4
Tl 190.794	48.1099	45.1433	40.8007
V 292.401	977.675	975.595	977.094
Zn 206.200	558.687	564.353	560.705

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.0911	ppb	0.7050	1.5	3832.64
Al 308.215	184924	ppb	46.3884	0.0	1255767
As 188.980	201.331	ppb	1.2078	0.6	103.416
B 249.678	163.377	ppb	0.7565	0.5	2099.39
Ba 389.178	971.929	ppb	0.4774	0.0	20815.9
Be 313.042	64.8249	ppb	0.0128	0.0	118167
Ca 370.602	28869	ppb	54.35	0.2	78728
Cd 226.502	45.5879	ppb	0.1683	0.4	2964.69
Co 228.615	276.770	ppb	2.8735	1.0	3442.35
Cr 267.716	571.984	ppb	0.3440	0.1	31029.8
Cu 324.754	361.153	ppb	2.7968	0.8	24912.6
Fe 271.441	291155	ppb	174.427	0.1	480325
K 766.491	31459.5	ppb	36.9370	0.1	1309231
Mg 279.078	34438.0	ppb	26.8069	0.1	93962.6
Mn 257.610	7569.11	ppb	12.9735	0.2	1531887
Mo 202.032	84.7258	ppb	0.3605	0.4	566.099
Na 330.237	4847.85	ppb	34.5810	0.7	168.848
Ni 231.604	252.234	ppb	1.3766	0.5	781.873
Pb 220.353	630.721	ppb	1.7354	0.3	1045.79
Sb 206.834	20.3807	ppb	3.8599	18.9	34.2203
Se 196.026	88.3408	ppb	4.5013	5.1	41.1424
Sn 189.925	184.955	ppb	2.7292	1.5	134.827
Sr 216.596	129.952	ppb	1.3264	1.0	2083.88
Ti 334.941	10831.6	ppb	17.2789	0.2	3216154
Tl 190.794	44.6846	ppb	3.6761	8.2	-0.4462
V 292.401	976.788	ppb	1.0734	0.1	25497.3
Zn 206.200	561.248	ppb	2.8722	0.5	616.816

680-107275-c-8-c msd (Samp) **11/21/2014, 4:35:31 AM** **Rack 4, Tube 9**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	47.7215	47.4659	47.5463
Al 308.215	193430	193017	193010
As 188.980	248.641	232.354	242.601
B 249.678	169.112	170.233	171.023
Ba 389.178	983.338	980.453	980.017
Be 313.042	65.6497	65.6193	65.5793
Ca 370.602	32784	32776	32890
Cd 226.502	48.0588	47.2500	47.6256
Co 228.615	372.148	375.459	371.549
Cr 267.716	521.114	521.741	521.485

Label	Replicates Concentration		
Cu 324.754	401.161	399.535	403.366
Fe 271.441	274383	274403	274391
K 766.491	33087.1	32985.2	33003.0
Mg 279.078	38031.8	38035.1	38054.7
Mn 257.610	11870.0	11894.8	11880.6
Mo 202.032	74.7161	73.1878	73.9039
Na 330.237	5178.25	5006.40	5192.08
Ni 231.604	399.497	397.786	399.732
Pb 220.353	730.418	736.659	730.527
Sb 206.834	15.5127	11.9637	9.4050
Se 196.026	84.4556	77.1053	79.7635
Sn 189.925	191.338	189.577	190.147
Sr 216.596	134.296	134.639	133.661
Ti 334.941	10499.0	10472.4	10485.0
Tl 190.794	46.7823	50.4857	48.5369
V 292.401	922.082	921.454	923.005
Zn 206.200	727.943	728.342	727.818

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	47.5779	ppb	0.1307	0.3	3896.55
Al 308.215	193152	ppb	240.337	0.1	1311610
As 188.980	241.199	ppb	8.2334	3.4	125.723
B 249.678	170.123	ppb	0.9602	0.6	2249.40
Ba 389.178	981.269	ppb	1.8048	0.2	21008.6
Be 313.042	65.6161	ppb	0.0353	0.1	119612
Ca 370.602	32817	ppb	63.52	0.2	89357
Cd 226.502	47.6448	ppb	0.4047	0.8	2990.83
Co 228.615	373.052	ppb	2.1060	0.6	4544.87
Cr 267.716	521.447	ppb	0.3153	0.1	28320.9
Cu 324.754	401.354	ppb	1.9231	0.5	27641.6
Fe 271.441	274392	ppb	9.8802	0.0	452686
K 766.491	33025.1	ppb	54.4091	0.2	1374372
Mg 279.078	38040.5	ppb	12.3482	0.0	103721
Mn 257.610	11881.8	ppb	12.4359	0.1	2404044
Mo 202.032	73.9359	ppb	0.7646	1.0	493.690
Na 330.237	5125.58	ppb	103.443	2.0	181.510
Ni 231.604	399.005	ppb	1.0622	0.3	1224.33
Pb 220.353	732.535	ppb	3.5724	0.5	1210.61
Sb 206.834	12.2938	ppb	3.0672	24.9	22.4777
Se 196.026	80.4414	ppb	3.7218	4.6	38.5196
Sn 189.925	190.354	ppb	0.8987	0.5	138.918
Sr 216.596	134.198	ppb	0.4961	0.4	2112.96
Ti 334.941	10485.5	ppb	13.3348	0.1	3113396
Tl 190.794	48.6016	ppb	1.8526	3.8	8.4822
V 292.401	922.181	ppb	0.7801	0.1	24075.1
Zn 206.200	728.034	ppb	0.2739	0.0	803.903

680-107275-c-1-a (Samp) **11/21/2014, 4:39:49 AM** **Rack 4, Tube 10**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.4057u	-0.8309u	-1.1367u
Al 308.215	273331	267630	267916
As 188.980	14.2211	17.4862	22.2164

Label	Replicates Concentration		
B 249.678	7.0985u	7.6570u	6.6281u
Ba 389.178	1198.05	1171.39	1172.00
Be 313.042	24.8063	24.3257	24.3187
Ca 370.602	18518	18117	18082
Cd 226.502	0.8610	0.5498	0.4880
Co 228.615	273.792	269.928	266.792
Cr 267.716	378.555	370.877	370.734
Cu 324.754	410.185	395.514	397.597
Fe 271.441	336795	329450	329235
K 766.491	30157.6	29591.8	29605.3
Mg 279.078	33501.2	32795.5	32762.6
Mn 257.610	8443.72	8287.03	8264.05
Mo 202.032	1.9685u	2.9450	3.1685
Na 330.237	423.780u	300.448u	482.006u
Ni 231.604	172.124	168.124	169.200
Pb 220.353	162.051	154.498	156.940
Sb 206.834	-4.2249	-0.8940	0.6276
Se 196.026	-5.3182	-2.1635	11.4779
Sn 189.925	12.8808	19.6365	16.8952
Sr 216.596	41.6981	40.3085	39.4622
Ti 334.941	11923.9	11720.5	11697.1
Tl 190.794	13.4020u	15.6857u	18.3225u
V 292.401	1101.52	1079.22	1079.64
Zn 206.200	461.511	454.143	449.753

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.1244	ppb	0.2876	25.6	-127.395
Al 308.215	269626	ppb	3211.99	1.2	1830698
As 188.980	17.9746	ppb	4.0200	22.4	1.0421
B 249.678	7.1278	ppb	0.5151	7.2	-591.820
Ba 389.178	1180.48	ppb	15.2200	1.3	25260.6
Be 313.042	24.4836	ppb	0.2795	1.1	44504.2
Ca 370.602	18239	ppb	242.0	1.3	50432
Cd 226.502	0.6329	ppb	0.1999	31.6	1240.90
Co 228.615	270.171	ppb	3.5067	1.3	3391.13
Cr 267.716	373.389	ppb	4.4749	1.2	20359.6
Cu 324.754	401.099	ppb	7.9376	2.0	27642.4
Fe 271.441	331827	ppb	4304.16	1.3	547414
K 766.491	29784.9	ppb	322.838	1.1	1239554
Mg 279.078	33019.7	ppb	417.247	1.3	90036.5
Mn 257.610	8331.60	ppb	97.7795	1.2	1686194
Mo 202.032	2.6940	ppb	0.6382	23.7	7.2543
Na 330.237	402.078	ppb	92.7045	23.1	-35.3706
Ni 231.604	169.816	ppb	2.0699	1.2	535.983
Pb 220.353	157.830	ppb	3.8543	2.4	280.457
Sb 206.834	-1.4971	ppb	2.4818	165.8	3.9424
Se 196.026	1.3321	ppb	8.9270	670.2	4.1320
Sn 189.925	16.4708	ppb	3.3978	20.6	7.1334
Sr 216.596	40.4896	ppb	1.1289	2.8	991.004
Ti 334.941	11780.5	ppb	124.728	1.1	3497907
Tl 190.794	15.8034	ppb	2.4624	15.6	-36.3032
V 292.401	1086.79	ppb	12.7555	1.2	28393.7
Zn 206.200	455.135	ppb	5.9418	1.3	497.161

680-107275-c-2-a (Samp) **11/21/2014, 4:44:08 AM** **Rack 4, Tube 11**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.3555	-0.5020u	0.5071
Al 308.215	246140	246906	245983
As 188.980	22.8232	21.7470	23.1401
B 249.678	8.6273u	8.6530u	7.7751u
Ba 389.178	998.302	998.547	995.691
Be 313.042	18.2026	18.1922	18.1301
Ca 370.602	11097	11114	11128
Cd 226.502	4.0780	4.4862	4.2941
Co 228.615	273.046	274.400	274.484
Cr 267.716	352.012	352.403	351.637
Cu 324.754	313.597	313.632	311.017
Fe 271.441	290709	291711	290819
K 766.491	27551.2	27559.0	27467.2
Mg 279.078	29023.1	29144.3	29057.5
Mn 257.610	6824.99	6848.95	6811.37
Mo 202.032	4.7290	4.3470	4.8165
Na 330.237	46.1691u	-103.297u	188.140u
Ni 231.604	127.060	122.043	127.378
Pb 220.353	1374.06	1381.97	1374.23
Sb 206.834	6.8906	1.9293	1.7259
Se 196.026	-9.8636u	5.8762	6.6398
Sn 189.925	25.6560	27.5276	27.0092
Sr 216.596	42.3581	41.9523	41.8503
Ti 334.941	10639.0	10636.1	10597.2
Tl 190.794	14.3556u	12.7685u	12.2017u
V 292.401	851.866	853.179	852.877
Zn 206.200	602.283	600.875	600.634

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.1202	ppb	0.5441	452.6	-26.5856
Al 308.215	246343	ppb	493.457	0.2	1672631
As 188.980	22.5701	ppb	0.7302	3.2	3.8248
B 249.678	8.3518	ppb	0.4996	6.0	-477.928
Ba 389.178	997.513	ppb	1.5830	0.2	21347.1
Be 313.042	18.1750	ppb	0.0392	0.2	32965.7
Ca 370.602	11113	ppb	15.36	0.1	31338
Cd 226.502	4.2861	ppb	0.2042	4.8	1246.92
Co 228.615	273.977	ppb	0.8066	0.3	3407.71
Cr 267.716	352.017	ppb	0.3828	0.1	19181.7
Cu 324.754	312.749	ppb	1.5001	0.5	21618.1
Fe 271.441	291080	ppb	549.772	0.2	480199
K 766.491	27525.8	ppb	50.8980	0.2	1145555
Mg 279.078	29075.0	ppb	62.4886	0.2	79290.7
Mn 257.610	6828.44	ppb	19.0286	0.3	1382060
Mo 202.032	4.6309	ppb	0.2497	5.4	22.5516
Na 330.237	43.6706	ppb	145.735	333.7	-45.2994
Ni 231.604	125.494	ppb	2.9925	2.4	398.487
Pb 220.353	1376.75	ppb	4.5162	0.3	2254.15
Sb 206.834	3.5153	ppb	2.9249	83.2	9.7658
Se 196.026	0.8841	ppb	9.3156	1053.7	3.2659
Sn 189.925	26.7310	ppb	0.9663	3.6	14.9095
Sr 216.596	42.0536	ppb	0.2686	0.6	953.346

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	10624.1	ppb	23.3481	0.2	3154539
Tl 190.794	13.1086	ppb	1.1165	8.5	-34.1589
V 292.401	852.640	ppb	0.6873	0.1	22269.8
Zn 206.200	601.264	ppb	0.8906	0.1	661.978

680-107275-c-3-a (Samp) **11/21/2014, 4:48:27 AM** **Rack 4, Tube 12**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.5588u	-0.8801u	-0.6404u
Al 308.215	276308	276453	275989
As 188.980	4.2596	5.8340	0.5514u
B 249.678	2.2538u	1.8958u	2.3579u
Ba 389.178	439.609	438.588	440.726
Be 313.042	18.0529	18.0704	18.1201
Ca 370.602	3766	3769	3782
Cd 226.502	0.6187	0.3546	0.1764
Co 228.615	75.2622	75.8184	74.4357
Cr 267.716	20.5388	20.3467	20.3716
Cu 324.754	169.766	170.002	170.168
Fe 271.441	174484	174335	174945
K 766.491	19200.0	19200.6	19230.8
Mg 279.078	13744.4	13732.9	13759.2
Mn 257.610	2527.31	2528.80	2530.00
Mo 202.032	2.2899	1.5910	0.8722u
Na 330.237	407.489u	469.030u	522.995u
Ni 231.604	92.5792	93.2456	94.9588
Pb 220.353	117.788	117.514	121.678
Sb 206.834	2.1211	3.3217	-7.3224u
Se 196.026	-9.4843u	3.1181	-5.4842u
Sn 189.925	8.7243	9.9906	9.0864
Sr 216.596	16.2173	16.2083	16.2793
Ti 334.941	4515.81	4518.70	4536.27
Tl 190.794	1.9850u	9.1297u	6.9078u
V 292.401	387.596	387.074	388.461
Zn 206.200	195.380	196.919	195.036

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.6931	ppb	0.1671	24.1	-94.9735
Al 308.215	276250	ppb	237.261	0.1	1875550
As 188.980	3.5484	ppb	2.7122	76.4	-6.1296
B 249.678	2.1692	ppb	0.2424	11.2	-309.929
Ba 389.178	439.641	ppb	1.0696	0.2	9412.80
Be 313.042	18.0811	ppb	0.0349	0.2	32774.8
Ca 370.602	3773	ppb	8.461	0.2	10290
Cd 226.502	0.3832	ppb	0.2225	58.1	665.918
Co 228.615	75.1721	ppb	0.6957	0.9	974.311
Cr 267.716	20.4190	ppb	0.1045	0.5	1238.80
Cu 324.754	169.978	ppb	0.2020	0.1	11863.2
Fe 271.441	174588	ppb	317.776	0.2	288015
K 766.491	19210.5	ppb	17.6302	0.1	799567
Mg 279.078	13745.5	ppb	13.2087	0.1	37452.4
Mn 257.610	2528.71	ppb	1.3513	0.1	512063
Mo 202.032	1.5844	ppb	0.7089	44.7	7.8826

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	466.505	ppb	57.7944	12.4	7.2876
Ni 231.604	93.5945	ppb	1.2276	1.3	292.705
Pb 220.353	118.993	ppb	2.3292	2.0	208.942
Sb 206.834	-0.6265	ppb	5.8298	930.5	-2.0660
Se 196.026	-3.9502	ppb	6.4397	163.0	-0.7390
Sn 189.925	9.2671	ppb	0.6522	7.0	1.6743
Sr 216.596	16.2350	ppb	0.0387	0.2	455.971
Ti 334.941	4523.60	ppb	11.0731	0.2	1343182
Tl 190.794	6.0075	ppb	3.6564	60.9	-27.3774
V 292.401	387.710	ppb	0.7002	0.2	10109.3
Zn 206.200	195.778	ppb	1.0027	0.5	213.813

Cont Calib Verif (CCV) **11/21/2014, 4:52:46 AM** **Rack 4, Tube 13**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	510.571	510.573	507.405
Al 308.215	4977.21	4993.75	4996.35
As 188.980	495.419	473.183	490.398
B 249.678	497.167	500.810	505.290
Ba 389.178	5267.99	5267.75	5262.96
Be 313.042	537.740	535.163	537.115
Ca 370.602	4959	4950	4958
Cd 226.502	526.548	529.386	528.443
Co 228.615	530.636	530.776	532.720
Cr 267.716	5272.49	5274.25	5276.41
Cu 324.754	5361.23	5394.89	5423.28
Fe 271.441	5021.60	5026.27	5033.16
K 766.491	10564.6	10562.3	10547.8
Mg 279.078	5012.24	5024.98	5024.71
Mn 257.610	5374.80	5391.21	5371.92
Mo 202.032	498.098	499.469	500.054
Na 330.237	7845.70	7739.28	7697.13
Ni 231.604	2622.46	2621.20	2619.11
Pb 220.353	494.355	500.569	497.451
Sb 206.834	979.116	990.035	994.084
Se 196.026	4940.91	4937.35	4962.27
Sn 189.925	4991.84	4970.19	4988.29
Sr 216.596	2491.27	2513.09	2499.01
Ti 334.941	506.872	507.230	506.377
Tl 190.794	5016.80	5023.44	5032.63
V 292.401	4965.00	4964.31	4976.72
Zn 206.200	2644.80	2650.55	2664.05

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	509.516	ppb	1.8281	0.4	41785.9	101.90326
Al 308.215	4989.10	ppb	10.3809	0.2	34982.3	99.78209
As 188.980	486.333	ppb	11.6620	2.4	263.697	97.26665
B 249.678	501.089	ppb	4.0690	0.8	8387.79	100.21780
Ba 389.178	5266.23	ppb	2.8378	0.1	111524	105.32468
Be 313.042	536.673	ppb	1.3446	0.3	980151	107.33452
Ca 370.602	4956	ppb	5.083	0.1	13531	99.11709
Cd 226.502	528.125	ppb	1.4455	0.3	22027.2	105.62510
Co 228.615	531.377	ppb	1.1648	0.2	6135.35	106.27541

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Cr 267.716	5274.38	ppb	1.9667	0.0	284062	105.48766
Cu 324.754	5393.13	ppb	31.0590	0.6	367133	107.86265
Fe 271.441	5027.01	ppb	5.8128	0.1	8418.21	100.54018
K 766.491	10558.2	ppb	9.1443	0.1	439560	105.58225
Mg 279.078	5020.64	ppb	7.2815	0.1	13639.9	100.41284
Mn 257.610	5379.31	ppb	10.4038	0.2	1088021	107.58619
Mo 202.032	499.207	ppb	1.0037	0.2	3388.53	99.84138
Na 330.237	7760.70	ppb	76.5619	1.0	320.736	103.47606
Ni 231.604	2620.92	ppb	1.6894	0.1	7923.86	104.83687
Pb 220.353	497.458	ppb	3.1071	0.6	820.938	99.49162
Sb 206.834	987.745	ppb	7.7425	0.8	1401.53	98.77449
Se 196.026	4946.84	ppb	13.4784	0.3	2133.44	98.93687
Sn 189.925	4983.44	ppb	11.6163	0.2	3771.53	99.66881
Sr 216.596	2501.13	ppb	11.0607	0.4	32048.9	100.04501
Ti 334.941	506.826	ppb	0.4282	0.1	150499	101.36530
Tl 190.794	5024.29	ppb	7.9515	0.2	5302.80	100.48576
V 292.401	4968.67	ppb	6.9725	0.1	129760	99.37350
Zn 206.200	2653.13	ppb	9.8820	0.4	2954.99	106.12532

Cont Calib Blank (CCB) **11/21/2014, 4:57:05 AM** **Rack 4, Tube 14**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0596	-0.1371u	0.1507
Al 308.215	3.8412	4.0136	5.5779
As 188.980	1.7129	5.1716	0.7575
B 249.678	6.7499	6.1238	5.6307
Ba 389.178	0.5812	0.8514	0.7733
Be 313.042	0.0184	0.0298	0.0300
Ca 370.602	8.534	4.116	0.8335
Cd 226.502	-0.0107u	0.0156	0.0489
Co 228.615	-0.0005u	-0.2133u	0.1851
Cr 267.716	0.1479	0.2992	0.0989
Cu 324.754	-0.1865u	-0.1782u	-0.1408u
Fe 271.441	5.8484	6.9056	10.0055
K 766.491	2.8485	3.6200	3.2014
Mg 279.078	1.9653	1.4527	1.7885
Mn 257.610	0.3274	0.4606	0.5190
Mo 202.032	0.6816	0.5929	0.1096
Na 330.237	-52.9132u	-94.4727u	-28.2458u
Ni 231.604	0.7207	-0.5904u	0.3414
Pb 220.353	2.0672	1.7733	0.6209
Sb 206.834	5.0514	4.6708	8.0442
Se 196.026	-4.9709u	-2.3728u	-3.9258u
Sn 189.925	2.1865	0.8114	-0.0963u
Sr 216.596	0.5304	0.5037	0.3952
Ti 334.941	0.4285	0.4904	0.4656
Tl 190.794	2.5797	2.9647	3.1508
V 292.401	-0.1667u	0.0157	0.1828
Zn 206.200	-0.1242u	1.0031	-0.2671u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0244	ppb	0.1471	603.4	-21.0108	0.02438
Al 308.215	4.4776	ppb	0.9568	21.4	467.463	4.47757

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
As 188.980	2.5473	ppb	2.3224	91.2	-5.7251	2.54735
B 249.678	6.1681	ppb	0.5609	9.1	161.100	6.16813
Ba 389.178	0.7353	ppb	0.1391	18.9	-40.3640	0.73533
Be 313.042	0.0261	ppb	0.0067	25.6	-244.279	0.02606
Ca 370.602	4.495	ppb	3.864	86.0	17.85	4.49471
Cd 226.502	0.0179	ppb	0.0299	166.9	17.9632	0.01790
Co 228.615	-0.0096	ppb	0.1994	2085.6	-1.9476	-0.00956
Cr 267.716	0.1820	ppb	0.1044	57.4	44.6313	0.18199
Cu 324.754	-0.1685	ppb	0.0244	14.5	221.366	-0.16847
Fe 271.441	7.5865	ppb	2.1605	28.5	29.3563	7.58650
K 766.491	3.2233	ppb	0.3862	12.0	382.294	3.22329
Mg 279.078	1.7355	ppb	0.2603	15.0	30.2189	1.73551
Mn 257.610	0.4357	ppb	0.0982	22.5	169.588	0.43566
Mo 202.032	0.4614	ppb	0.3078	66.7	8.8969	0.46140
Na 330.237	-58.5439	ppb	33.4706	57.2	26.3272	-58.54391
Ni 231.604	0.1572	ppb	0.6747	429.1	-4.5375	0.15724
Pb 220.353	1.4871	ppb	0.7644	51.4	12.2475	1.48712
Sb 206.834	5.9221	ppb	1.8476	31.2	3.4950	5.92214
Se 196.026	-3.7565	ppb	1.3073	34.8	-2.6907	-3.75649
Sn 189.925	0.9672	ppb	1.1493	118.8	-4.6157	0.96723
Sr 216.596	0.4764	ppb	0.0716	15.0	10.2672	0.47641
Ti 334.941	0.4615	ppb	0.0311	6.7	143.766	0.46148
Tl 190.794	2.8984	ppb	0.2913	10.0	-6.3274	2.89840
V 292.401	0.0106	ppb	0.1748	1650.4	-8.6428	0.01059
Zn 206.200	0.2039	ppb	0.6958	341.2	1.6723	0.20392

680-107275-c-4-a (Samp) **11/21/2014, 5:01:24 AM** **Rack 4, Tube 15**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.3349u	-1.6117u	-1.9836u
Al 308.215	238144	238530	238223
As 188.980	22.4398	21.6049	16.0133
B 249.678	20.9625u	21.7068u	21.0269u
Ba 389.178	977.866	975.271	976.951
Be 313.042	14.1306	14.1058	14.1042
Ca 370.602	12602	12565	12594
Cd 226.502	1.2274	1.6463	1.4986
Co 228.615	333.386	333.643	333.675
Cr 267.716	506.226	506.844	506.891
Cu 324.754	305.955	307.566	306.484
Fe 271.441	266724	267069	267097
K 766.491	29887.3	29833.5	29817.2
Mg 279.078	34814.4	34832.5	34891.9
Mn 257.610	6136.28	6152.86	6159.64
Mo 202.032	4.9216	5.3608	5.4531
Na 330.237	293.645u	458.996u	348.881u
Ni 231.604	709.697	711.948	715.469
Pb 220.353	341.351	339.280	338.660
Sb 206.834	0.5342	-0.5388	-0.9893
Se 196.026	-13.9587u	3.4723	-6.2646
Sn 189.925	25.1042	28.1507	33.1252
Sr 216.596	43.7541	43.3500	43.5527
Ti 334.941	10159.1	10144.5	10129.0

Label	Replicates Concentration		
Tl 190.794	8.9717u	10.7292u	8.2833u
V 292.401	772.951	771.700	773.538
Zn 206.200	1655.48	1648.97	1662.04

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.6434	ppb	0.3255	19.8	-171.005
Al 308.215	238299	ppb	203.624	0.1	1618019
As 188.980	20.0193	ppb	3.4943	17.5	2.5359
B 249.678	21.2321	ppb	0.4124	1.9	-208.151
Ba 389.178	976.696	ppb	1.3161	0.1	20899.7
Be 313.042	14.1136	ppb	0.0148	0.1	25543.3
Ca 370.602	12587	ppb	19.33	0.2	35274
Cd 226.502	1.4574	ppb	0.2124	14.6	1041.82
Co 228.615	333.568	ppb	0.1586	0.0	4083.26
Cr 267.716	506.654	ppb	0.3711	0.1	27494.9
Cu 324.754	306.668	ppb	0.8215	0.3	21195.8
Fe 271.441	266963	ppb	207.772	0.1	440425
K 766.491	29846.0	ppb	36.6506	0.1	1242095
Mg 279.078	34846.3	ppb	40.5360	0.1	95087.9
Mn 257.610	6149.59	ppb	12.0167	0.2	1244748
Mo 202.032	5.2452	ppb	0.2840	5.4	27.9429
Na 330.237	367.174	ppb	84.1798	22.9	-46.2513
Ni 231.604	712.371	ppb	2.9089	0.4	2171.96
Pb 220.353	339.764	ppb	1.4096	0.4	571.875
Sb 206.834	-0.3313	ppb	0.7827	236.2	6.0201
Se 196.026	-5.5837	ppb	8.7355	156.4	0.1305
Sn 189.925	28.7934	ppb	4.0490	14.1	16.4726
Sr 216.596	43.5523	ppb	0.2021	0.5	922.248
Ti 334.941	10144.2	ppb	15.0431	0.1	3012063
Tl 190.794	9.3281	ppb	1.2613	13.5	-34.8073
V 292.401	772.730	ppb	0.9386	0.1	20175.8
Zn 206.200	1655.50	ppb	6.5361	0.4	1840.64

680-107275-c-5-a (Samp) **11/21/2014, 5:05:43 AM** **Rack 4, Tube 16**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.6003u	-1.3344	-1.4108u
Al 308.215	215207	214304	215607
As 188.980	6.5500	4.5713	11.5445
B 249.678	3.1851u	3.1889u	3.0847u
Ba 389.178	1517.48	1514.05	1524.11
Be 313.042	7.1522	7.1442	7.1752
Ca 370.602	495.3	499.5	503.3
Cd 226.502	1.3911	1.4120	1.3276
Co 228.615	2147.76	2156.58	2160.37
Cr 267.716	5.8917	6.0176	5.9290
Cu 324.754	266.862	267.694	269.878
Fe 271.441	35036.8	35005.3	35116.3
K 766.491	1411.04	1408.45	1416.26
Mg 279.078	1133.63	1126.66	1135.55
Mn 257.610	23881.8	23833.7	23907.2
Mo 202.032	0.3926	1.4286	0.6252
Na 330.237	582.682	252.082	557.636

Label	Replicates Concentration		
Ni 231.604	92.2353	93.8410	91.7729
Pb 220.353	1125.52	1124.02	1125.44
Sb 206.834	1.4370	-4.4996u	0.0078
Se 196.026	-10.8038	-0.2965	-21.5617u
Sn 189.925	5.6100	3.6873	9.6068
Sr 216.596	1.3613	1.2544	1.3430
Ti 334.941	220.187	219.678	220.527
Tl 190.794	8.9766	3.6690	8.7020
V 292.401	92.4742	92.3069	92.4593
Zn 206.200	151.237	155.312	158.199

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.4485	ppb	0.1369	9.4	-26.6081
Al 308.215	215040	ppb	667.548	0.3	1460015
As 188.980	7.5553	ppb	3.5936	47.6	-3.1286
B 249.678	3.1529	ppb	0.0591	1.9	29.3840
Ba 389.178	1518.55	ppb	5.1160	0.3	32139.1
Be 313.042	7.1572	ppb	0.0161	0.2	12797.4
Ca 370.602	499.4	ppb	4.025	0.8	1652
Cd 226.502	1.3769	ppb	0.0440	3.2	203.223
Co 228.615	2154.91	ppb	6.4677	0.3	24867.9
Cr 267.716	5.9461	ppb	0.0647	1.1	489.714
Cu 324.754	268.144	ppb	1.5579	0.6	18490.2
Fe 271.441	35052.8	ppb	57.1906	0.2	58094.7
K 766.491	1411.92	ppb	3.9761	0.3	58995.8
Mg 279.078	1131.95	ppb	4.6824	0.4	2541.15
Mn 257.610	23874.2	ppb	37.3351	0.2	4828411
Mo 202.032	0.8155	ppb	0.5436	66.7	9.5441
Na 330.237	464.134	ppb	184.069	39.7	38.7436
Ni 231.604	92.6164	ppb	1.0855	1.2	273.010
Pb 220.353	1124.99	ppb	0.8452	0.1	1837.04
Sb 206.834	-1.0183	ppb	3.0984	304.3	-5.2451
Se 196.026	-10.8873	ppb	10.6328	97.7	-0.3044
Sn 189.925	6.3014	ppb	3.0197	47.9	-0.5730
Sr 216.596	1.3196	ppb	0.0572	4.3	67.9983
Ti 334.941	220.131	ppb	0.4277	0.2	65383.5
Tl 190.794	7.1158	ppb	2.9882	42.0	10.4901
V 292.401	92.4135	ppb	0.0926	0.1	2397.79
Zn 206.200	154.916	ppb	3.4981	2.3	173.265

680-107275-c-6-a (Samp) **11/21/2014, 5:10:02 AM** **Rack 4, Tube 17**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.2992u	-1.5165u	-0.8579u
Al 308.215	147133	148688	148230
As 188.980	23.6508	21.0067	12.6532
B 249.678	6.0676u	6.5410u	6.7284u
Ba 389.178	331.835	336.198	334.613
Be 313.042	18.3895	18.5874	18.5412
Ca 370.602	7446	7495	7498
Cd 226.502	0.0979	0.2391	-0.0832
Co 228.615	110.482	110.683	109.364
Cr 267.716	213.950	216.220	216.167

Label	Replicates Concentration		
Cu 324.754	230.612	232.208	232.985
Fe 271.441	304158	326401	326036
K 766.491	12936.9	13107.4	13054.2
Mg 279.078	10025.9	10138.4	10131.3
Mn 257.610	4561.65	4626.46	4621.18
Mo 202.032	4.0347	3.6269	3.2476
Na 330.237	-7.5206u	-32.9326u	106.927u
Ni 231.604	59.7378	59.2950	58.2239
Pb 220.353	227.315	232.937	234.668
Sb 206.834	-4.9417	0.9021	-5.5434
Se 196.026	5.9582	5.2494	-3.3037
Sn 189.925	18.6178	22.9906	17.9711
Sr 216.596	20.8515	21.8487	22.2391
Ti 334.941	5416.43	5479.63	5460.46
Tl 190.794	7.3937u	9.4448u	8.2681u
V 292.401	824.683	831.508	830.815
Zn 206.200	439.135	447.043	443.600

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.2245	ppb	0.3356	27.4	-152.364
Al 308.215	148017	ppb	799.058	0.5	1005248
As 188.980	19.1036	ppb	5.7405	30.0	1.7402
B 249.678	6.4457	ppb	0.3406	5.3	-574.122
Ba 389.178	334.216	ppb	2.2082	0.7	7279.45
Be 313.042	18.5060	ppb	0.1035	0.6	33560.1
Ca 370.602	7480	ppb	28.90	0.4	19192
Cd 226.502	0.0846	ppb	0.1615	190.9	1182.26
Co 228.615	110.177	ppb	0.7106	0.6	1408.34
Cr 267.716	215.446	ppb	1.2960	0.6	11817.2
Cu 324.754	231.935	ppb	1.2099	0.5	16131.1
Fe 271.441	318865	ppb	12737.9	4.0	526010
K 766.491	13032.8	ppb	87.2474	0.7	542525
Mg 279.078	10098.5	ppb	62.9796	0.6	27485.9
Mn 257.610	4603.10	ppb	35.9912	0.8	931959
Mo 202.032	3.6364	ppb	0.3937	10.8	14.5263
Na 330.237	22.1578	ppb	74.5035	336.2	-49.0989
Ni 231.604	59.0855	ppb	0.7784	1.3	200.274
Pb 220.353	231.640	ppb	3.8441	1.7	403.457
Sb 206.834	-3.1943	ppb	3.5604	111.5	-0.5878
Se 196.026	2.6346	ppb	5.1549	195.7	3.7839
Sn 189.925	19.8598	ppb	2.7306	13.7	9.7020
Sr 216.596	21.6464	ppb	0.7156	3.3	730.654
Ti 334.941	5452.17	ppb	32.4044	0.6	1618893
Tl 190.794	8.3689	ppb	1.0293	12.3	-44.9571
V 292.401	829.002	ppb	3.7559	0.5	21609.9
Zn 206.200	443.259	ppb	3.9651	0.9	484.681

680-107275-c-7-a (Samp) **11/21/2014, 5:14:21 AM** **Rack 4, Tube 18**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7738u	-1.0942u	-0.8824u
Al 308.215	151094	151192	150879
As 188.980	9.2922	10.9815	14.2039

Label	Replicates Concentration		
B 249.678	3.6491u	3.6021u	3.2144u
Ba 389.178	192.307	190.727	190.780
Be 313.042	62.8463	62.8487	62.7948
Ca 370.602	23.67	21.48	17.82
Cd 226.502	-0.9878	-1.5328	-1.3230
Co 228.615	173.299	170.997	171.124
Cr 267.716	164.441	163.720	163.811
Cu 324.754	435.923	434.808	429.274
Fe 271.441	569528	567434	567696
K 766.491	941.080	944.090	941.043
Mg 279.078	905.686	898.232	902.773
Mn 257.610	8242.18	8280.21	8222.38
Mo 202.032	2.8639u	4.0587u	3.0091u
Na 330.237	0.2185u	-59.0518u	257.996u
Ni 231.604	43.4103	39.5038	42.9085
Pb 220.353	72.1167	70.0958	75.2027
Sb 206.834	-5.6555	-2.0426	-3.6917
Se 196.026	2.5195	2.7320	7.9148
Sn 189.925	18.4305	13.3807	16.3655
Sr 216.596	-2.3202	-3.1316	-3.1868
Ti 334.941	15618.0	16144.4	16144.5
Tl 190.794	20.1995u	11.9499u	13.6391u
V 292.401	1736.11	1734.64	1731.45
Zn 206.200	241.977	239.453	240.104

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.9168	ppb	0.1630	17.8	-147.559
Al 308.215	151055	ppb	160.387	0.1	1026015
As 188.980	11.4925	ppb	2.4954	21.7	-3.8744
B 249.678	3.4885	ppb	0.2386	6.8	-1201.04
Ba 389.178	191.271	ppb	0.8971	0.5	4418.03
Be 313.042	62.8299	ppb	0.0304	0.0	114559
Ca 370.602	20.99	ppb	2.955	14.1	1340
Cd 226.502	-1.2812	ppb	0.2749	21.5	2021.77
Co 228.615	171.807	ppb	1.2937	0.8	2360.81
Cr 267.716	163.991	ppb	0.3930	0.2	9195.92
Cu 324.754	433.335	ppb	3.5606	0.8	29922.4
Fe 271.441	568219	ppb	1140.86	0.2	937340
K 766.491	942.071	ppb	1.7484	0.2	39446.3
Mg 279.078	902.230	ppb	3.7565	0.4	2262.71
Mn 257.610	8248.26	ppb	29.3884	0.4	1669773
Mo 202.032	3.3106	ppb	0.6520	19.7	-0.3991
Na 330.237	66.3874	ppb	168.563	253.9	-98.3119
Ni 231.604	41.9409	ppb	2.1254	5.1	169.096
Pb 220.353	72.4717	ppb	2.5719	3.5	157.762
Sb 206.834	-3.7966	ppb	1.8087	47.6	2.4394
Se 196.026	4.3888	ppb	3.0554	69.6	7.4589
Sn 189.925	16.0589	ppb	2.5388	15.8	6.8206
Sr 216.596	-2.8795	ppb	0.4852	16.8	761.889
Ti 334.941	15969.0	ppb	303.950	1.9	4741480
Tl 190.794	15.2628	ppb	4.3579	28.6	-71.9376
V 292.401	1734.07	ppb	2.3816	0.1	45295.1
Zn 206.200	240.511	ppb	1.3104	0.5	249.118

680-107275-c-9-a (Samp) **11/21/2014, 5:18:40 AM** **Rack 4, Tube 19**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7742u	-0.2708u	-0.5843u
Al 308.215	300786	299967	301451
As 188.980	4.2529	6.4298	10.6113
B 249.678	1.3840u	1.0371u	0.6125u
Ba 389.178	1833.04	1827.67	1836.34
Be 313.042	5.3477	5.3290	5.3608
Ca 370.602	2669	2668	2682
Cd 226.502	0.6650	0.7169	0.4824
Co 228.615	84.2347	83.0919	83.7745
Cr 267.716	5.6202	5.4202	5.6877
Cu 324.754	8.2630	7.7902	7.9155
Fe 271.441	59573.5	59395.8	59687.0
K 766.491	28297.2	28306.1	28285.5
Mg 279.078	25014.3	24934.1	25072.3
Mn 257.610	2812.03	2811.71	2819.66
Mo 202.032	1.2228	0.9375	0.5531
Na 330.237	466.904	471.667	366.935u
Ni 231.604	108.118	107.456	108.807
Pb 220.353	229.388	224.195	227.084
Sb 206.834	5.6798	-0.3957	6.3444
Se 196.026	-2.8690u	4.8380	-17.3915u
Sn 189.925	9.5111	9.9901	9.6091
Sr 216.596	17.0513	17.6670	16.9353
Ti 334.941	4622.67	4600.65	4607.04
Tl 190.794	5.1572u	3.2096u	1.8981u
V 292.401	87.4966	87.2189	87.6888
Zn 206.200	353.379	352.311	353.894

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.5431	ppb	0.2542	46.8	-62.6039
Al 308.215	300735	ppb	743.510	0.2	2041687
As 188.980	7.0980	ppb	3.2314	45.5	-3.5180
B 249.678	1.0112	ppb	0.3864	38.2	-62.6557
Ba 389.178	1832.35	ppb	4.3781	0.2	38851.6
Be 313.042	5.3458	ppb	0.0160	0.3	9500.59
Ca 370.602	2673	ppb	8.219	0.3	8514
Cd 226.502	0.6215	ppb	0.1232	19.8	254.301
Co 228.615	83.7004	ppb	0.5750	0.7	1066.37
Cr 267.716	5.5760	ppb	0.1391	2.5	389.550
Cu 324.754	7.9896	ppb	0.2449	3.1	799.262
Fe 271.441	59552.1	ppb	146.813	0.2	98260.5
K 766.491	28296.3	ppb	10.3486	0.0	1177613
Mg 279.078	25006.9	ppb	69.3858	0.3	68229.1
Mn 257.610	2814.46	ppb	4.4990	0.2	569613
Mo 202.032	0.9045	ppb	0.3361	37.2	9.0034
Na 330.237	435.169	ppb	59.1398	13.6	28.0697
Ni 231.604	108.127	ppb	0.6756	0.6	327.029
Pb 220.353	226.889	ppb	2.6017	1.1	375.564
Sb 206.834	3.8762	ppb	3.7144	95.8	1.8386
Se 196.026	-5.1408	ppb	11.2876	219.6	-2.1702
Sn 189.925	9.7034	ppb	0.2530	2.6	2.0053
Sr 216.596	17.2179	ppb	0.3933	2.3	306.680

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	4610.12	ppb	11.3282	0.2	1368879
Tl 190.794	3.4216	ppb	1.6398	47.9	-13.0175
V 292.401	87.4681	ppb	0.2362	0.3	2290.86
Zn 206.200	353.195	ppb	0.8073	0.2	393.956

680-107275-c-10-a (Samp) **11/21/2014, 5:22:58 AM** **Rack 4, Tube 20**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.1565u	-2.0189u	-1.3049u
Al 308.215	242672	243097	243168
As 188.980	19.3965	9.3718	22.2514
B 249.678	4.8248u	5.1022u	4.9789u
Ba 389.178	913.979	916.440	917.218
Be 313.042	14.1395	14.1763	14.1769
Ca 370.602	39048	39038	38951
Cd 226.502	-0.4953	-0.3085	-0.4862
Co 228.615	222.318	222.596	222.294
Cr 267.716	414.633	415.052	415.448
Cu 324.754	335.841	337.157	335.469
Fe 271.441	317177	317692	317540
K 766.491	21655.9	21634.2	21656.0
Mg 279.078	24238.2	24263.6	24266.0
Mn 257.610	5556.46	5578.58	5576.73
Mo 202.032	3.0488	4.3850	3.2991
Na 330.237	159.946u	213.334u	283.969u
Ni 231.604	154.728	156.588	154.461
Pb 220.353	244.169	236.248	245.012
Sb 206.834	-4.4102	-0.7043	-1.3673
Se 196.026	13.0778	-0.4852	-0.9730
Sn 189.925	19.3253	19.0430	17.5895
Sr 216.596	69.2811	70.2078	69.8866
Ti 334.941	10274.7	10293.4	10305.1
Tl 190.794	7.1312u	10.2457u	13.4483u
V 292.401	910.104	912.968	911.636
Zn 206.200	550.265	555.456	546.343

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-1.4934	ppb	0.4611	30.9	-170.446
Al 308.215	242979	ppb	268.356	0.1	1649810
As 188.980	17.0065	ppb	6.7642	39.8	0.5805
B 249.678	4.9687	ppb	0.1390	2.8	-594.908
Ba 389.178	915.879	ppb	1.6909	0.2	19627.6
Be 313.042	14.1642	ppb	0.0214	0.2	25652.5
Ca 370.602	39012	ppb	53.25	0.1	105187
Cd 226.502	-0.4300	ppb	0.1053	24.5	1147.17
Co 228.615	222.403	ppb	0.1679	0.1	2806.33
Cr 267.716	415.044	ppb	0.4079	0.1	22581.4
Cu 324.754	336.155	ppb	0.8870	0.3	23220.4
Fe 271.441	317470	ppb	264.368	0.1	523724
K 766.491	21648.7	ppb	12.5749	0.1	901018
Mg 279.078	24255.9	ppb	15.4472	0.1	66140.2
Mn 257.610	5570.59	ppb	12.2716	0.2	1127717
Mo 202.032	3.5776	ppb	0.7103	19.9	14.1126

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	219.083	ppb	62.2109	28.4	-42.2389
Ni 231.604	155.259	ppb	1.1590	0.7	490.864
Pb 220.353	241.810	ppb	4.8350	2.0	416.276
Sb 206.834	-2.1606	ppb	1.9762	91.5	3.2841
Se 196.026	3.8732	ppb	7.9752	205.9	4.5184
Sn 189.925	18.6526	ppb	0.9315	5.0	8.7870
Sr 216.596	69.7918	ppb	0.4706	0.7	1356.52
Ti 334.941	10291.1	ppb	15.3405	0.1	3055660
Tl 190.794	10.2751	ppb	3.1586	30.7	-41.7609
V 292.401	911.569	ppb	1.4328	0.2	23797.9
Zn 206.200	550.688	ppb	4.5709	0.8	604.370

680-107275-c-11-a (Samp) **11/21/2014, 5:27:18 AM** **Rack 4, Tube 21**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.9294u	-3.2524u	-1.4929u
Al 308.215	275952	275273	275831
As 188.980	25.0043	11.6935	25.5653
B 249.678	3.5411u	3.4721u	4.0125u
Ba 389.178	775.487	772.472	772.982
Be 313.042	14.2050	14.1993	14.1886
Ca 370.602	3.117	-4.986	11.18
Cd 226.502	-0.4456	-0.1994	-0.2586
Co 228.615	222.388	223.216	226.128
Cr 267.716	131.848	131.340	131.359
Cu 324.754	313.786	315.112	315.967
Fe 271.441	422471	423750	423672
K 766.491	7172.68	7180.39	7143.15
Mg 279.078	8801.90	8808.11	8824.12
Mn 257.610	5567.48	5594.09	5574.40
Mo 202.032	2.9263u	2.8431u	2.6110u
Na 330.237	-83.7756u	6.0408u	16.8240u
Ni 231.604	97.2469	97.5695	98.3920
Pb 220.353	84.8671	87.4981	86.2844
Sb 206.834	-0.4663	-6.7823u	-7.4431u
Se 196.026	1.9328	8.2112	-3.2378
Sn 189.925	20.9828	16.2178	15.8792
Sr 216.596	1.4335	1.1960	1.3206
Ti 334.941	10720.3	10691.9	10670.7
Tl 190.794	13.6876u	8.3891u	11.2738u
V 292.401	1410.71	1411.73	1412.29
Zn 206.200	247.347	243.951	244.408

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.2249	ppb	0.9162	41.2	-244.406
Al 308.215	275686	ppb	362.027	0.1	1871884
As 188.980	20.7543	ppb	7.8519	37.8	2.0833
B 249.678	3.6752	ppb	0.2941	8.0	-862.821
Ba 389.178	773.647	ppb	1.6139	0.2	16663.3
Be 313.042	14.1976	ppb	0.0083	0.1	25728.8
Ca 370.602	3.102	ppb	8.081	260.5	451.3
Cd 226.502	-0.3012	ppb	0.1285	42.7	1541.37
Co 228.615	223.911	ppb	1.9641	0.9	2839.20

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	131.516	ppb	0.2882	0.2	7358.32
Cu 324.754	314.955	ppb	1.0988	0.3	21814.0
Fe 271.441	423298	ppb	717.298	0.2	698292
K 766.491	7165.41	ppb	19.6575	0.3	298390
Mg 279.078	8811.38	ppb	11.4617	0.1	23897.0
Mn 257.610	5578.66	ppb	13.8096	0.2	1129536
Mo 202.032	2.7935	ppb	0.1634	5.8	3.2433
Na 330.237	-20.3036	ppb	55.2322	272.0	-70.3141
Ni 231.604	97.7361	ppb	0.5904	0.6	325.741
Pb 220.353	86.2165	ppb	1.3168	1.5	170.459
Sb 206.834	-4.8972	ppb	3.8515	78.6	-2.0856
Se 196.026	2.3020	ppb	5.7334	249.1	4.7481
Sn 189.925	17.6933	ppb	2.8538	16.1	8.0596
Sr 216.596	1.3167	ppb	0.1188	9.0	611.559
Ti 334.941	10694.3	ppb	24.8744	0.2	3175365
Tl 190.794	11.1168	ppb	2.6527	23.9	-56.1489
V 292.401	1411.58	ppb	0.8044	0.1	36866.4
Zn 206.200	245.235	ppb	1.8430	0.8	259.743

680-107268-a-1-a (Samp) **11/21/2014, 5:31:36 AM** **Rack 4, Tube 22**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1242u	-0.5904u	-0.0947u
Al 308.215	166973	166875	166807
As 188.980	40.1066	42.7556	46.3755
B 249.678	9.2787u	10.1478u	9.7864u
Ba 389.178	356.830	356.461	357.450
Be 313.042	2.5053	2.4948	2.4942
Ca 370.602	1979	1976	1976
Cd 226.502	-0.9065	-1.1927	-0.9403
Co 228.615	5.8056	5.2715	6.5986
Cr 267.716	142.605	142.076	142.395
Cu 324.754	159.276	163.147	161.846
Fe 271.441	303039	302207	302257
K 766.491	3485.24	3487.79	3485.00
Mg 279.078	2924.49	2923.82	2919.99
Mn 257.610	442.573	441.591	441.744
Mo 202.032	6.7086	6.4335	6.5008
Na 330.237	32.1222u	45.4152u	-87.0425u
Ni 231.604	15.3308	12.8694	14.4099
Pb 220.353	124.079	124.596	126.161
Sb 206.834	-2.3772	-1.5912	-0.1362
Se 196.026	-1.0259	2.7404	0.3620
Sn 189.925	14.5530	19.3557	15.6267
Sr 216.596	17.0145	15.7814	15.3375
Ti 334.941	1330.77	1329.07	1330.15
Tl 190.794	4.7484u	5.5470u	4.9995u
V 292.401	522.537	521.799	522.313
Zn 206.200	114.444	120.473	116.791

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.2698	ppb	0.2781	103.1	-92.2837
Al 308.215	166885	ppb	83.4981	0.1	1133267

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	43.0792	ppb	3.1469	7.3	15.1908
B 249.678	9.7376	ppb	0.4366	4.5	-480.832
Ba 389.178	356.914	ppb	0.4997	0.1	7733.32
Be 313.042	2.4981	ppb	0.0062	0.2	4305.85
Ca 370.602	1977	ppb	1.968	0.1	2892
Cd 226.502	-1.0132	ppb	0.1564	15.4	1082.24
Co 228.615	5.8919	ppb	0.6677	11.3	115.436
Cr 267.716	142.359	ppb	0.2664	0.2	7847.61
Cu 324.754	161.423	ppb	1.9699	1.2	11331.1
Fe 271.441	302501	ppb	466.716	0.2	499002
K 766.491	3486.01	ppb	1.5446	0.0	145296
Mg 279.078	2922.77	ppb	2.4246	0.1	7944.30
Mn 257.610	441.969	ppb	0.5286	0.1	90331.7
Mo 202.032	6.5476	ppb	0.1434	2.2	35.4109
Na 330.237	-3.1685	ppb	72.9406	2302.1	-40.0598
Ni 231.604	14.2034	ppb	1.2436	8.8	63.3638
Pb 220.353	124.945	ppb	1.0838	0.9	230.356
Sb 206.834	-1.3682	ppb	1.1370	83.1	0.6149
Se 196.026	0.6921	ppb	1.9047	275.2	1.9062
Sn 189.925	16.5118	ppb	2.5208	15.3	7.1647
Sr 216.596	16.0445	ppb	0.8689	5.4	634.515
Ti 334.941	1330.00	ppb	0.8643	0.1	394951
Tl 190.794	5.0983	ppb	0.4084	8.0	-48.7401
V 292.401	522.216	ppb	0.3781	0.1	13556.0
Zn 206.200	117.236	ppb	3.0391	2.6	121.112

680-107268-a-2-a (Samp) **11/21/2014, 5:35:55 AM** **Rack 4, Tube 23**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-1.6300u	-2.4948u	-2.0933u
Al 308.215	83383.7	83529.0	83462.1
As 188.980	33.3216	35.6669	28.9279
B 249.678	0.6211u	1.3398u	1.5137u
Ba 389.178	193.219	193.038	192.556
Be 313.042	5.3046	5.3039	5.2852
Ca 370.602	39.37u	64.49u	43.02u
Cd 226.502	-1.3343	-1.1190	-0.9227
Co 228.615	-3.4439	-1.9575	-2.6126
Cr 267.716	67.6688	67.6989	67.7758
Cu 324.754	603.391	602.355	600.746
Fe 271.441	362006	362385	362944
K 766.491	2274.72	2271.95	2267.21
Mg 279.078	1404.53	1402.23	1408.35
Mn 257.610	1001.71	1007.57	1007.43
Mo 202.032	6.4834	6.6268	6.5601
Na 330.237	112.506u	-112.107u	150.550u
Ni 231.604	8.3437	11.2273	9.4732
Pb 220.353	248.243	256.618	252.760
Sb 206.834	-2.7125	-0.7217	-0.5873
Se 196.026	-3.2646	-4.9112	7.0118
Sn 189.925	21.7303	21.8338	20.1091
Sr 216.596	-1.5184	-1.3659	-2.3229
Ti 334.941	3763.51	3767.51	3759.87

Label	Replicates Concentration		
Tl 190.794	5.7579u	7.5817u	8.2045u
V 292.401	512.868	511.743	512.148
Zn 206.200	101.190	105.385	106.591

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.0727	ppb	0.4327	20.9	-247.633
Al 308.215	83458.3	ppb	72.7485	0.1	567018
As 188.980	32.6388	ppb	3.4210	10.5	9.0392
B 249.678	1.1582	ppb	0.4732	40.9	-763.921
Ba 389.178	192.938	ppb	0.3424	0.2	4301.34
Be 313.042	5.2979	ppb	0.0110	0.2	9409.24
Ca 370.602	48.96	ppb	13.57	27.7	-1813
Cd 226.502	-1.1253	ppb	0.2059	18.3	1295.80
Co 228.615	-2.6713	ppb	0.7449	27.9	72.5843
Cr 267.716	67.7145	ppb	0.0552	0.1	3863.71
Cu 324.754	602.164	ppb	1.3333	0.2	41343.6
Fe 271.441	362445	ppb	471.998	0.1	597879
K 766.491	2271.29	ppb	3.7943	0.2	94753.3
Mg 279.078	1405.04	ppb	3.0917	0.2	3814.39
Mn 257.610	1005.57	ppb	3.3430	0.3	204471
Mo 202.032	6.5568	ppb	0.0718	1.1	32.6293
Na 330.237	50.3163	ppb	141.943	282.1	-50.8236
Ni 231.604	9.6814	ppb	1.4530	15.0	54.7371
Pb 220.353	252.540	ppb	4.1920	1.7	441.339
Sb 206.834	-1.3405	ppb	1.1901	88.8	0.8037
Se 196.026	-0.3880	ppb	6.4611	1665.1	2.0796
Sn 189.925	21.2244	ppb	0.9672	4.6	10.7361
Sr 216.596	-1.7357	ppb	0.5142	29.6	490.427
Ti 334.941	3763.63	ppb	3.8191	0.1	1117529
Tl 190.794	7.1814	ppb	1.2715	17.7	-55.4608
V 292.401	512.253	ppb	0.5698	0.1	13294.5
Zn 206.200	104.389	ppb	2.8353	2.7	104.699

680-107268-a-3-a (Samp) **11/21/2014, 5:40:14 AM** **Rack 4, Tube 24**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.7240u	0.0322u	-0.5862u
Al 308.215	160517	160266	160417
As 188.980	50.0163	56.1669	48.0870
B 249.678	2.4103u	2.2929u	2.1141u
Ba 389.178	208.361	207.561	207.859
Be 313.042	3.3138	3.3065	3.3200
Ca 370.602	2414	2395	2412
Cd 226.502	-0.7877	-0.5098	-0.6786
Co 228.615	6.6946	6.8813	6.7241
Cr 267.716	160.837	160.693	160.551
Cu 324.754	280.236	282.311	282.538
Fe 271.441	343260	339607	339889
K 766.491	2415.28	2406.40	2413.44
Mg 279.078	3260.13	3254.95	3261.68
Mn 257.610	664.273	663.578	662.243
Mo 202.032	10.1941	10.4396	9.5898
Na 330.237	-15.7961u	133.659u	116.519u

Label	Replicates Concentration		
Ni 231.604	20.3760	16.5707	18.4020
Pb 220.353	125.611	135.148	133.724
Sb 206.834	-2.5010	-2.2069	-0.7566
Se 196.026	4.9695	9.0779	-2.4253
Sn 189.925	20.3684	20.0679	17.7094
Sr 216.596	6.7880	6.8198	6.3397
Ti 334.941	1334.75	1334.43	1335.65
Tl 190.794	8.9619u	1.9799u	2.6944u
V 292.401	655.495	654.075	654.361
Zn 206.200	146.784	143.967	145.931

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-0.4260	ppb	0.4028	94.5	-109.954
Al 308.215	160400	ppb	126.471	0.1	1089275
As 188.980	51.4234	ppb	4.2197	8.2	19.6265
B 249.678	2.2724	ppb	0.1491	6.6	-694.428
Ba 389.178	207.927	ppb	0.4044	0.2	4606.66
Be 313.042	3.3134	ppb	0.0067	0.2	5800.13
Ca 370.602	2407	ppb	10.45	0.4	3670
Cd 226.502	-0.6587	ppb	0.1400	21.3	1238.71
Co 228.615	6.7667	ppb	0.1004	1.5	128.225
Cr 267.716	160.694	ppb	0.1430	0.1	8853.12
Cu 324.754	281.695	ppb	1.2686	0.5	19528.3
Fe 271.441	340918	ppb	2032.42	0.6	562373
K 766.491	2411.70	ppb	4.6864	0.2	100596
Mg 279.078	3258.92	ppb	3.5238	0.1	8861.26
Mn 257.610	663.364	ppb	1.0316	0.2	135216
Mo 202.032	10.0745	ppb	0.4373	4.3	57.3872
Na 330.237	78.1270	ppb	81.7902	104.7	-45.4804
Ni 231.604	18.4496	ppb	1.9031	10.3	79.4446
Pb 220.353	131.494	ppb	5.1443	3.9	243.784
Sb 206.834	-1.8215	ppb	0.9339	51.3	0.8567
Se 196.026	3.8740	ppb	5.8293	150.5	3.6562
Sn 189.925	19.3819	ppb	1.4562	7.5	9.3398
Sr 216.596	6.6492	ppb	0.2685	4.0	567.815
Ti 334.941	1334.94	ppb	0.6333	0.0	396424
Tl 190.794	4.5454	ppb	3.8414	84.5	-54.8604
V 292.401	654.644	ppb	0.7514	0.1	17008.0
Zn 206.200	145.561	ppb	1.4443	1.0	151.315

Cont Calib Verif (CCV) **11/21/2014, 5:44:33 AM** **Rack 4, Tube 25**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	506.143	506.209	506.027
Al 308.215	4963.64	4970.32	4950.96
As 188.980	488.498	490.473	512.634
B 249.678	498.606	502.870	503.257
Ba 389.178	5227.40	5229.30	5204.24
Be 313.042	539.915	539.278	536.070
Ca 370.602	4953	4952	4949
Cd 226.502	524.498	524.642	523.108
Co 228.615	529.256	530.023	529.117
Cr 267.716	5249.45	5244.77	5234.00

Label	Replicates Concentration		
Cu 324.754	5447.91	5412.68	5382.27
Fe 271.441	5034.59	5027.61	5016.55
K 766.491	10603.3	10604.8	10556.0
Mg 279.078	5020.90	5023.24	5024.30
Mn 257.610	5343.84	5344.40	5300.09
Mo 202.032	497.120	496.922	494.257
Na 330.237	7837.38	7648.79	7855.81
Ni 231.604	2635.64	2624.66	2606.57
Pb 220.353	493.396	492.567	493.066
Sb 206.834	985.510	984.396	981.297
Se 196.026	4978.35	4943.25	4954.81
Sn 189.925	4923.39	4942.10	4920.85
Sr 216.596	2500.89	2502.46	2493.27
Ti 334.941	505.860	505.326	502.521
Tl 190.794	5016.02	5022.31	5000.75
V 292.401	4969.24	4957.85	4951.95
Zn 206.200	2653.67	2657.06	2648.28

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	506.126	ppb	0.0921	0.0	41507.8	101.22524
Al 308.215	4961.64	ppb	9.8366	0.2	34792.4	99.23277
As 188.980	497.202	ppb	13.4009	2.7	269.754	99.44035
B 249.678	501.578	ppb	2.5804	0.5	8395.83	100.31554
Ba 389.178	5220.31	ppb	13.9505	0.3	110551	104.40624
Be 313.042	538.421	ppb	2.0606	0.4	983344	107.68425
Ca 370.602	4951	ppb	1.872	0.0	13516	99.02402
Cd 226.502	524.083	ppb	0.8474	0.2	21858.9	104.81657
Co 228.615	529.466	ppb	0.4876	0.1	6113.30	105.89310
Cr 267.716	5242.74	ppb	7.9232	0.2	282358	104.85481
Cu 324.754	5414.29	ppb	32.8468	0.6	368572	108.28572
Fe 271.441	5026.25	ppb	9.0971	0.2	8416.55	100.52500
K 766.491	10588.0	ppb	27.7455	0.3	440799	105.88013
Mg 279.078	5022.81	ppb	1.7377	0.0	13646.4	100.45628
Mn 257.610	5329.44	ppb	25.4229	0.5	1077935	106.58881
Mo 202.032	496.100	ppb	1.5989	0.3	3367.46	99.21996
Na 330.237	7780.66	ppb	114.576	1.5	321.603	103.74213
Ni 231.604	2622.29	ppb	14.6803	0.6	7928.01	104.89168
Pb 220.353	493.010	ppb	0.4172	0.1	813.714	98.60201
Sb 206.834	983.734	ppb	2.1833	0.2	1395.85	98.37343
Se 196.026	4958.80	ppb	17.8850	0.4	2138.60	99.17606
Sn 189.925	4928.78	ppb	11.6058	0.2	3730.10	98.57561
Sr 216.596	2498.87	ppb	4.9172	0.2	32020.0	99.95490
Ti 334.941	504.569	ppb	1.7933	0.4	149829	100.91383
Tl 190.794	5013.03	ppb	11.0862	0.2	5290.87	100.26052
V 292.401	4959.68	ppb	8.7885	0.2	129526	99.19353
Zn 206.200	2653.00	ppb	4.4277	0.2	2954.88	106.12012

Cont Calib Blank (CCB) **11/21/2014, 5:48:52 AM** **Rack 4, Tube 26**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1149	0.3556	0.2784
Al 308.215	4.2688	5.5829	4.8118
As 188.980	3.6082	0.4922	7.6958

Label	Replicates Concentration		
B 249.678	7.1878	6.0211	5.3914
Ba 389.178	0.5240	0.3870	0.1846
Be 313.042	0.0171	0.0276	0.0384
Ca 370.602	4.602	4.268	6.749
Cd 226.502	-0.0290u	0.0708	0.0216
Co 228.615	-0.1476u	-0.0277u	-0.0083u
Cr 267.716	0.2285	0.5968	0.4786
Cu 324.754	-0.0843u	-0.2964u	-0.1394u
Fe 271.441	1.8899	11.0444	12.1599
K 766.491	2.7824	2.7794	2.8990
Mg 279.078	0.7550	-0.3609u	0.3670
Mn 257.610	0.3005	0.4135	0.4862
Mo 202.032	0.6191	0.3768	-0.5204u
Na 330.237	-22.3366u	37.1821	97.5883
Ni 231.604	0.5368	0.0709	0.5096
Pb 220.353	0.2337	1.1611	1.2424
Sb 206.834	3.9911	6.5383	0.1824
Se 196.026	-1.2680u	-3.2176u	5.3941
Sn 189.925	0.4437	-2.2034u	-0.0921u
Sr 216.596	0.0516	-0.0192u	0.4289
Ti 334.941	0.2570	0.3150	0.3237
Tl 190.794	5.6287	3.8958	1.7971
V 292.401	0.1724	0.2804	0.1314
Zn 206.200	1.0654	1.0808	0.5956

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.2496	ppb	0.1229	49.2	-2.4950	0.24963
Al 308.215	4.8878	ppb	0.6603	13.5	470.270	4.88782
As 188.980	3.9321	ppb	3.6127	91.9	-4.9535	3.93206
B 249.678	6.2001	ppb	0.9114	14.7	161.615	6.20011
Ba 389.178	0.3652	ppb	0.1708	46.8	-48.2086	0.36520
Be 313.042	0.0277	ppb	0.0107	38.5	-241.222	0.02771
Ca 370.602	5.206	ppb	1.347	25.9	19.67	5.20618
Cd 226.502	0.0211	ppb	0.0499	236.3	18.0995	0.02112
Co 228.615	-0.0612	ppb	0.0755	123.3	-2.5382	-0.06122
Cr 267.716	0.4346	ppb	0.1880	43.3	58.2342	0.43464
Cu 324.754	-0.1734	ppb	0.1101	63.5	221.020	-0.17338
Fe 271.441	8.3647	ppb	5.6350	67.4	30.6263	8.36473
K 766.491	2.8203	ppb	0.0682	2.4	365.524	2.82025
Mg 279.078	0.2537	ppb	0.5665	223.3	26.1677	0.25368
Mn 257.610	0.4001	ppb	0.0936	23.4	162.373	0.40005
Mo 202.032	0.1585	ppb	0.6003	378.7	6.8407	0.15851
Na 330.237	37.4780	ppb	59.9630	160.0	30.5704	37.47799
Ni 231.604	0.3724	ppb	0.2615	70.2	-3.8861	0.37243
Pb 220.353	0.8791	ppb	0.5604	63.7	11.2626	0.87909
Sb 206.834	3.5706	ppb	3.1988	89.6	0.2961	3.57061
Se 196.026	0.3029	ppb	4.5156	1491.0	-0.9401	0.30285
Sn 189.925	-0.6172	ppb	1.3995	226.7	-5.8166	-0.61724
Sr 216.596	0.1537	ppb	0.2409	156.7	6.1217	0.15374
Ti 334.941	0.2986	ppb	0.0362	12.1	95.3914	0.29856
Tl 190.794	3.7739	ppb	1.9187	50.8	-5.4027	3.77387
V 292.401	0.1947	ppb	0.0769	39.5	-3.7849	0.19473
Zn 206.200	0.9139	ppb	0.2758	30.2	2.4652	0.91393

680-107268-a-4-a (Samp) **11/21/2014, 5:53:12 AM** **Rack 4, Tube 27**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-3.0962u	-1.5568u	-2.7577u
Al 308.215	89427.6	89355.5	89140.4
As 188.980	32.5757	33.7393	29.8780
B 249.678	3.0196u	3.6119u	3.0728u
Ba 389.178	631.143	628.657	630.559
Be 313.042	6.4923	6.4871	6.4802
Ca 370.602	35.10u	30.59u	21.85u
Cd 226.502	-0.7064	-0.8026	-0.7711
Co 228.615	194.015	194.356	192.702
Cr 267.716	41.8422	41.9841	42.0378
Cu 324.754	305.737	302.531	305.236
Fe 271.441	227511	227530	227715
K 766.491	2949.89	2951.04	2943.35
Mg 279.078	4297.00	4308.86	4302.06
Mn 257.610	12119.3	12129.3	12087.4
Mo 202.032	2.2036	2.6055	1.7062
Na 330.237	-178.501u	61.2948u	-195.511u
Ni 231.604	18.8009	15.3293	16.6129
Pb 220.353	70.0699	71.4235	70.5772
Sb 206.834	-1.6388	-0.0909	-0.0412
Se 196.026	1.1397	-4.3659	-6.2822
Sn 189.925	20.8262	20.9574	23.0123
Sr 216.596	-0.5911	-0.6609	-0.1745
Ti 334.941	3294.14	3291.37	3281.11
Tl 190.794	6.5907u	10.0222u	8.8443u
V 292.401	432.698	431.782	431.979
Zn 206.200	187.918	190.252	192.541

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	-2.4703	ppb	0.8090	32.7	-201.865
Al 308.215	89307.9	ppb	149.416	0.2	606694
As 188.980	32.0644	ppb	1.9808	6.2	9.4649
B 249.678	3.2348	ppb	0.3277	10.1	-416.214
Ba 389.178	630.119	ppb	1.2999	0.2	13468.3
Be 313.042	6.4865	ppb	0.0060	0.1	11577.8
Ca 370.602	29.18	ppb	6.734	23.1	-485.2
Cd 226.502	-0.7600	ppb	0.0491	6.5	816.366
Co 228.615	193.691	ppb	0.8732	0.5	2318.76
Cr 267.716	41.9547	ppb	0.1011	0.2	2465.76
Cu 324.754	304.501	ppb	1.7245	0.6	21037.1
Fe 271.441	227585	ppb	112.846	0.0	375449
K 766.491	2948.09	ppb	4.1500	0.1	122914
Mg 279.078	4302.64	ppb	5.9524	0.1	11503.3
Mn 257.610	12112.0	ppb	21.8851	0.2	2450228
Mo 202.032	2.1718	ppb	0.4505	20.7	9.3086
Na 330.237	-104.239	ppb	143.609	137.8	-29.6688
Ni 231.604	16.9144	ppb	1.7553	10.4	64.8257
Pb 220.353	70.6902	ppb	0.6838	1.0	139.677
Sb 206.834	-0.5903	ppb	0.9083	153.9	-0.8107
Se 196.026	-3.1695	ppb	3.8529	121.6	2.1327
Sn 189.925	21.5986	ppb	1.2260	5.7	11.0200
Sr 216.596	-0.4755	ppb	0.2630	55.3	317.374

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	3288.87	ppb	6.8625	0.2	976556
Tl 190.794	8.4857	ppb	1.7436	20.5	-27.7382
V 292.401	432.153	ppb	0.4821	0.1	11244.7
Zn 206.200	190.237	ppb	2.3117	1.2	205.621

680-107277-b-1-a (Samp) **11/21/2014, 5:57:31 AM** **Rack 4, Tube 28**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	58.1040	58.2405	57.9408
Al 308.215	182728	182668	182520
As 188.980	50.3366	50.2411	51.1148
B 249.678	234.514	235.581	235.993
Ba 389.178	4992.58	4987.84	4989.87
Be 313.042	2.9085	2.8941	2.9036
Ca 370.602	158866	158904	158723
Cd 226.502	18.8415	18.9945	18.9828
Co 228.615	12.5456	12.2558	11.8371
Cr 267.716	299.020	299.039	299.189
Cu 324.754	4279.05	4271.12	4296.03
Fe 271.441	148045	147835	148151
K 766.491	26260.8	26252.0	26278.4
Mg 279.078	38598.7	38522.6	38548.7
Mn 257.610	589.568	589.531	591.180
Mo 202.032	66.0323	64.1685	65.5783
Na 330.237	17203.3	17089.8	17009.5
Ni 231.604	165.807	165.306	167.473
Pb 220.353	293.139	291.461	288.950
Sb 206.834	8.1648	10.9155	13.4806
Se 196.026	56.1259	53.9823	48.5697
Sn 189.925	345.137	352.902	354.892
Sr 216.596	2952.58	2950.74	2955.69
Ti 334.941	367.368	367.383	367.950
Tl 190.794	-0.9565u	2.5542u	3.5660u
V 292.401	44.4275	44.9035	44.7621
Zn 206.200	9128.73	9153.37	9125.39

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	58.0951	ppb	0.1500	0.3	4629.73
Al 308.215	182638	ppb	107.175	0.1	1240116
As 188.980	50.5642	ppb	0.4792	0.9	20.1987
B 249.678	235.363	ppb	0.7634	0.3	3626.39
Ba 389.178	4990.10	ppb	2.3782	0.0	105834
Be 313.042	2.9021	ppb	0.0073	0.3	5064.18
Ca 370.602	158831	ppb	95.50	0.1	421685
Cd 226.502	18.9396	ppb	0.0852	0.4	1348.75
Co 228.615	12.2129	ppb	0.3562	2.9	155.758
Cr 267.716	299.083	ppb	0.0921	0.0	16218.2
Cu 324.754	4282.07	ppb	12.7243	0.3	291645
Fe 271.441	148010	ppb	160.793	0.1	244165
K 766.491	26263.7	ppb	13.4460	0.1	1093042
Mg 279.078	38556.7	ppb	38.6995	0.1	105370
Mn 257.610	590.093	ppb	0.9413	0.2	120112
Mo 202.032	65.2597	ppb	0.9719	1.5	441712

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	17100.9	ppb	97.3544	0.6	576.696
Ni 231.604	166.195	ppb	1.1348	0.7	510.285
Pb 220.353	291.183	ppb	2.1083	0.7	489.526
Sb 206.834	10.8536	ppb	2.6584	24.5	15.6069
Se 196.026	52.8926	ppb	3.8942	7.4	23.1310
Sn 189.925	350.977	ppb	5.1546	1.5	260.656
Sr 216.596	2953.00	ppb	2.5039	0.1	38192.2
Ti 334.941	367.567	ppb	0.3316	0.1	109238
Tl 190.794	1.7212	ppb	2.3735	137.9	-29.7961
V 292.401	44.6977	ppb	0.2445	0.5	1083.90
Zn 206.200	9135.83	ppb	15.2774	0.2	10204.8

X (Samp) **11/21/2014, 6:01:50 AM** **Rack 4, Tube 29**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.1839	0.4052	0.1798
Al 308.215	-40.2178u	-41.6518u	-41.8109u
As 188.980	7.7795	3.4607	5.8174
B 249.678	-0.5438u	-0.9670u	-0.7911u
Ba 389.178	-0.0014u	-0.0904u	-0.1572u
Be 313.042	0.0673	0.0664	0.0664
Ca 370.602	3.056	3.652	2.557
Cd 226.502	-0.1818u	-0.1250u	-0.1273u
Co 228.615	1.3930	1.7455	1.6975
Cr 267.716	0.0252	0.0586	0.1201
Cu 324.754	-2.8769u	-2.9942u	-2.8386u
Fe 271.441	2.6152	-0.3963u	2.1301
K 766.491	-2.2801u	-2.4307u	-2.1212u
Mg 279.078	-6.8380u	-6.9542u	-7.0699u
Mn 257.610	1.1895	1.2819	1.4032
Mo 202.032	-0.3310u	-0.4668u	-0.4009u
Na 330.237	-224.473u	-327.843u	-300.625u
Ni 231.604	0.5249	0.7101	0.7998
Pb 220.353	-1.3501u	-0.7033u	-0.9322u
Sb 206.834	0.0593	-1.4668u	0.6748
Se 196.026	-1.8342u	-0.4861u	2.0164
Sn 189.925	4.2472	5.2380	3.5770
Sr 216.596	0.0690	0.2574	0.1084
Ti 334.941	-0.0490u	-0.0617u	-0.1050u
Tl 190.794	3.9703	3.9067	4.7288
V 292.401	-0.0052u	-0.0436u	0.1221
Zn 206.200	-1.3790u	-0.8729u	-0.7947u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.2563	ppb	0.1290	50.3	-1.9521
Al 308.215	-41.2268	ppb	0.8775	2.1	157.200
As 188.980	5.6859	ppb	2.1624	38.0	-3.9760
B 249.678	-0.7673	ppb	0.2126	27.7	45.7881
Ba 389.178	-0.0830	ppb	0.0782	94.2	-57.7350
Be 313.042	0.0667	ppb	0.0005	0.7	-169.940
Ca 370.602	3.088	ppb	0.5484	17.8	14.08
Cd 226.502	-0.1447	ppb	0.0322	22.2	11.1325
Co 228.615	1.6120	ppb	0.1912	11.9	16.7694

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.0679	ppb	0.0481	70.9	38.4825
Cu 324.754	-2.9033	ppb	0.0811	2.8	35.2560
Fe 271.441	1.4497	ppb	1.6170	111.5	19.4319
K 766.491	-2.2773	ppb	0.1548	6.8	153.422
Mg 279.078	-6.9540	ppb	0.1159	1.7	6.4607
Mn 257.610	1.2915	ppb	0.1072	8.3	342.555
Mo 202.032	-0.3996	ppb	0.0679	17.0	3.0538
Na 330.237	-284.314	ppb	53.5807	18.8	16.3192
Ni 231.604	0.6783	ppb	0.1402	20.7	-2.9667
Pb 220.353	-0.9952	ppb	0.3280	33.0	8.2244
Sb 206.834	-0.2442	ppb	1.1026	451.5	-4.8963
Se 196.026	-0.1013	ppb	1.9540	1929.1	-1.1143
Sn 189.925	4.3541	ppb	0.8357	19.2	-2.0489
Sr 216.596	0.1449	ppb	0.0994	68.6	5.9756
Ti 334.941	-0.0719	ppb	0.0294	40.8	-14.6069
Tl 190.794	4.2019	ppb	0.4574	10.9	-4.9416
V 292.401	0.0244	ppb	0.0867	355.3	-8.1105
Zn 206.200	-1.0155	ppb	0.3172	31.2	0.3105

CRI (Samp) **11/21/2014, 6:06:09 AM** **Rack 4, Tube 30**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.2317	0.3730	0.3503
Al 308.215	-41.9337u	-42.2761u	-42.9442u
As 188.980	7.3024	5.7841	5.8900
B 249.678	-1.5690u	-1.5593u	-1.4896u
Ba 389.178	0.1002	-0.1310u	-0.0394u
Be 313.042	0.0693	0.0674	0.0654
Ca 370.602	2.933	0.7371	-1.669u
Cd 226.502	-0.1108u	-0.1530u	-0.1062u
Co 228.615	1.3703	1.5571	1.6089
Cr 267.716	0.0679	0.0528	0.0393
Cu 324.754	-2.9228u	-2.8775u	-2.9416u
Fe 271.441	-3.5814u	-1.3465u	-0.2439u
K 766.491	-2.2169u	-2.5588u	-2.3706u
Mg 279.078	-7.8980u	-6.6205u	-7.1667u
Mn 257.610	1.4559	1.5106	1.5160
Mo 202.032	-0.2565u	-0.2052u	-0.3604u
Na 330.237	-237.179u	-277.797u	-224.417u
Ni 231.604	-0.0634u	0.9873	0.9922
Pb 220.353	-0.4020u	-1.5556u	-0.4920u
Sb 206.834	0.0499	-0.2171u	1.1837
Se 196.026	1.3081	-0.7301u	-0.3095u
Sn 189.925	5.4594	2.0086	1.1926
Sr 216.596	0.0199	0.1153	-0.0767u
Ti 334.941	-0.1878u	-0.1895u	-0.1959u
Tl 190.794	6.5096	3.7802	4.8803
V 292.401	-0.1098u	-0.0003	-0.0232u
Zn 206.200	-1.2505u	-1.3302u	-0.4749u

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.3183	ppb	0.0759	23.8	3.1496
Al 308.215	-42.3847	ppb	0.5139	1.2	149.347

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
As 188.980	6.3255	ppb	0.8477	13.4	-3.6196
B 249.678	-1.5393	ppb	0.0433	2.8	32.9779
Ba 389.178	-0.0234	ppb	0.1164	497.2	-56.4748
Be 313.042	0.0674	ppb	0.0019	2.9	-168.710
Ca 370.602	0.6670	ppb	2.301	345.0	7.608
Cd 226.502	-0.1234	ppb	0.0258	20.9	12.0126
Co 228.615	1.5121	ppb	0.1255	8.3	15.6113
Cr 267.716	0.0533	ppb	0.0143	26.8	37.6934
Cu 324.754	-2.9140	ppb	0.0330	1.1	34.5302
Fe 271.441	-1.7240	ppb	1.7004	98.6	14.1829
K 766.491	-2.3821	ppb	0.1712	7.2	149.062
Mg 279.078	-7.2284	ppb	0.6410	8.9	5.7064
Mn 257.610	1.4942	ppb	0.0332	2.2	383.529
Mo 202.032	-0.2740	ppb	0.0791	28.9	3.9060
Na 330.237	-246.465	ppb	27.8749	11.3	18.0032
Ni 231.604	0.6387	ppb	0.6081	95.2	-3.0863
Pb 220.353	-0.8165	ppb	0.6416	78.6	8.5137
Sb 206.834	0.3388	ppb	0.7437	219.5	-4.1046
Se 196.026	0.0895	ppb	1.0761	1202.6	-1.0320
Sn 189.925	2.8869	ppb	2.2649	78.5	-3.1609
Sr 216.596	0.0195	ppb	0.0960	492.3	4.3583
Ti 334.941	-0.1911	ppb	0.0043	2.2	-49.9892
Tl 190.794	5.0567	ppb	1.3732	27.2	-4.0397
V 292.401	-0.0444	ppb	0.0578	130.0	-9.9364
Zn 206.200	-1.0186	ppb	0.4725	46.4	0.3073

Cont Calib Verif (CCV) **11/21/2014, 6:10:29 AM** **Rack 4, Tube 37**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	504.235	507.899	500.105
Al 308.215	4938.95	4947.04	4936.27
As 188.980	495.301	498.221	505.975
B 249.678	499.217	502.698	505.267
Ba 389.178	5201.40	5198.85	5199.32
Be 313.042	537.981	538.359	537.945
Ca 370.602	4913	4910	4929
Cd 226.502	523.527	525.606	524.332
Co 228.615	528.320	530.317	529.406
Cr 267.716	5227.78	5238.19	5227.69
Cu 324.754	5417.23	5426.27	5353.50
Fe 271.441	4990.04	4998.37	4990.11
K 766.491	10527.0	10565.8	10538.4
Mg 279.078	5014.84	5031.84	5029.37
Mn 257.610	5327.56	5335.68	5321.78
Mo 202.032	492.761	495.020	494.269
Na 330.237	7625.34	7716.98	7528.13
Ni 231.604	2597.66	2600.54	2603.56
Pb 220.353	492.408	494.818	491.722
Sb 206.834	975.373	987.195	978.551
Se 196.026	4919.73	4936.66	4973.43
Sn 189.925	4926.14	4916.00	4964.59
Sr 216.596	2496.93	2497.68	2481.71
Ti 334.941	501.143	501.150	500.082

Label	Replicates Concentration		
Tl 190.794	5002.15	4979.12	4995.80
V 292.401	4940.39	4933.20	4940.69
Zn 206.200	2651.31	2656.48	2658.09

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	504.080	ppb	3.8992	0.8	41339.5	100.81596
Al 308.215	4940.75	ppb	5.6101	0.1	34648.8	98.81506
As 188.980	499.832	ppb	5.5167	1.1	271.221	99.96645
B 249.678	502.394	ppb	3.0364	0.6	8409.45	100.47887
Ba 389.178	5199.86	ppb	1.3536	0.0	110118	103.99713
Be 313.042	538.095	ppb	0.2295	0.0	982748	107.61900
Ca 370.602	4917	ppb	10.39	0.2	13425	98.34788
Cd 226.502	524.488	ppb	1.0482	0.2	21875.7	104.89763
Co 228.615	529.348	ppb	0.9999	0.2	6111.90	105.86954
Cr 267.716	5231.22	ppb	6.0353	0.1	281738	104.62434
Cu 324.754	5399.00	ppb	39.6619	0.7	367532	107.98006
Fe 271.441	4992.84	ppb	4.7882	0.1	8361.31	99.85676
K 766.491	10543.7	ppb	19.9403	0.2	438957	105.43743
Mg 279.078	5025.35	ppb	9.1818	0.2	13653.6	100.50698
Mn 257.610	5328.34	ppb	6.9862	0.1	1077713	106.56678
Mo 202.032	494.017	ppb	1.1506	0.2	3353.34	98.80334
Na 330.237	7623.48	ppb	94.4372	1.2	314.562	101.64646
Ni 231.604	2600.59	ppb	2.9500	0.1	7862.34	104.02357
Pb 220.353	492.982	ppb	1.6258	0.3	813.664	98.59650
Sb 206.834	980.373	ppb	6.1176	0.6	1391.22	98.03729
Se 196.026	4943.27	ppb	27.4575	0.6	2131.90	98.86544
Sn 189.925	4935.58	ppb	25.6302	0.5	3735.25	98.71152
Sr 216.596	2492.10	ppb	9.0134	0.4	31933.5	99.68418
Ti 334.941	500.792	ppb	0.6150	0.1	148708	100.15833
Tl 190.794	4992.36	ppb	11.8932	0.2	5269.04	99.84713
V 292.401	4938.09	ppb	4.2424	0.1	128962	98.76182
Zn 206.200	2655.29	ppb	3.5431	0.1	2957.46	106.21172

Cont Calib Blank (CCB) **11/21/2014, 6:14:48 AM** **Rack 4, Tube 38**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0578	0.1029	0.0058
Al 308.215	0.2413	-0.6770u	0.6731
As 188.980	0.9042	1.1229	0.8712
B 249.678	7.4496	6.0780	5.2991
Ba 389.178	0.0900	0.6166	0.8921
Be 313.042	0.0126	0.0249	0.0173
Ca 370.602	3.336	1.646	7.326
Cd 226.502	0.0274	-0.0053u	0.1434
Co 228.615	0.6244	0.5221	0.2388
Cr 267.716	0.1397	0.3205	0.4004
Cu 324.754	-0.5589u	-0.1718u	-0.2629u
Fe 271.441	3.6375	0.0917	2.0442
K 766.491	2.8700	2.7814	2.8039
Mg 279.078	2.2956	0.5076	2.8867
Mn 257.610	0.1825	0.2598	0.3645
Mo 202.032	0.3128	0.4164	0.0736
Na 330.237	-40.6154u	150.435	-122.082u

Label	Replicates Concentration		
Ni 231.604	1.2119	0.9711	0.9103
Pb 220.353	1.2749	0.2009	2.3268
Sb 206.834	6.1555	5.0638	3.2377
Se 196.026	-0.3309u	1.7082	-3.6436u
Sn 189.925	-3.6033u	2.1674	-3.3103u
Sr 216.596	-0.0303u	0.1290	0.3539
Ti 334.941	0.1347	0.1221	0.1386
Tl 190.794	0.5954	-2.8494u	-0.0714u
V 292.401	-0.0188u	-0.0343u	-0.1906u
Zn 206.200	-0.8967u	-1.0685u	0.6278

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.0555	ppb	0.0486	87.6	-18.4523	0.05550
Al 308.215	0.0791	ppb	0.6895	871.5	437.606	0.07912
As 188.980	0.9661	ppb	0.1368	14.2	-6.6061	0.96608
B 249.678	6.2756	ppb	1.0887	17.3	162.879	6.27557
Ba 389.178	0.5329	ppb	0.4075	76.5	-44.6592	0.53292
Be 313.042	0.0183	ppb	0.0062	34.1	-258.439	0.01829
Ca 370.602	4.103	ppb	2.917	71.1	16.70	4.10302
Cd 226.502	0.0552	ppb	0.0782	141.7	19.5019	0.05516
Co 228.615	0.4618	ppb	0.1997	43.3	3.4929	0.46175
Cr 267.716	0.2869	ppb	0.1336	46.6	50.2764	0.28688
Cu 324.754	-0.3312	ppb	0.2024	61.1	210.280	-0.33121
Fe 271.441	1.9245	ppb	1.7759	92.3	20.0663	1.92448
K 766.491	2.8184	ppb	0.0461	1.6	365.448	2.81844
Mg 279.078	1.8966	ppb	1.2387	65.3	30.6643	1.89661
Mn 257.610	0.2689	ppb	0.0914	34.0	135.842	0.26892
Mo 202.032	0.2676	ppb	0.1758	65.7	7.5818	0.26763
Na 330.237	-4.0877	ppb	139.883	3422.1	28.7487	-4.08766
Ni 231.604	1.0311	ppb	0.1595	15.5	-1.8949	1.03110
Pb 220.353	1.2675	ppb	1.0630	83.9	11.8919	1.26754
Sb 206.834	4.8190	ppb	1.4742	30.6	1.9967	4.81899
Se 196.026	-0.7554	ppb	2.7010	357.5	-1.3965	-0.75543
Sn 189.925	-1.5821	ppb	3.2504	205.4	-6.5478	-1.58211
Sr 216.596	0.1509	ppb	0.1930	127.9	6.0614	0.15089
Ti 334.941	0.1318	ppb	0.0086	6.6	45.8634	0.13177
Tl 190.794	-0.7751	ppb	1.8271	235.7	-10.2018	-0.77510
V 292.401	-0.0813	ppb	0.0950	116.9	-10.9960	-0.08125
Zn 206.200	-0.4458	ppb	0.9337	209.4	0.9461	-0.44581

Cont Calib Verif (CCV) **11/21/2014, 9:31:41 AM** **Rack 4, Tube 49**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	511.611	512.279	512.466
Al 308.215	5047.03	5031.79	5044.13
As 188.980	480.418	482.135	492.758
B 249.678	505.340	508.562	512.553
Ba 389.178	5222.31	5208.80	5223.12
Be 313.042	539.294	539.645	539.921
Ca 370.602	4729	4760	4789
Cd 226.502	524.875	527.530	531.377
Co 228.615	527.373	529.685	531.744
Cr 267.716	5262.76	5270.17	5290.31

Label	Replicates Concentration		
Cu 324.754	5532.90	5436.51	5445.95
Fe 271.441	4955.88	4976.22	4991.31
K 766.491	10334.0	10286.1	10302.9
Mg 279.078	5043.11	5036.63	5059.35
Mn 257.610	5443.73	5453.78	5451.20
Mo 202.032	486.379	489.724	492.604
Na 330.237	7788.23	7929.64	7758.00
Ni 231.604	2569.89	2587.24	2612.69
Pb 220.353	491.312	488.249	492.849
Sb 206.834	975.916	974.450	989.181
Se 196.026	4783.95	4844.26	4869.71
Sn 189.925	4909.93	4926.09	4965.49
Sr 216.596	2461.07	2470.99	2466.08
Ti 334.941	505.288	504.435	505.489
Tl 190.794	4896.64	4905.48	4947.54
V 292.401	4920.15	4934.27	4944.68
Zn 206.200	2619.87	2634.12	2653.36

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	512.119	ppb	0.4492	0.1	41998.4	102.42373
Al 308.215	5040.98	ppb	8.0919	0.2	35336.2	100.81969
As 188.980	485.104	ppb	6.6842	1.4	263.013	97.02076
B 249.678	508.818	ppb	3.6134	0.7	8516.45	101.76367
Ba 389.178	5218.08	ppb	8.0414	0.2	110504	104.36156
Be 313.042	539.620	ppb	0.3143	0.1	985535	107.92399
Ca 370.602	4760	ppb	29.96	0.6	13011	95.19450
Cd 226.502	527.927	ppb	3.2692	0.6	22018.9	105.58546
Co 228.615	529.601	ppb	2.1867	0.4	6115.05	105.92010
Cr 267.716	5274.41	ppb	14.2535	0.3	284063	105.48824
Cu 324.754	5471.79	ppb	53.1339	1.0	372484	109.43578
Fe 271.441	4974.47	ppb	17.7811	0.4	8331.48	99.48935
K 766.491	10307.7	ppb	24.3311	0.2	429135	103.07680
Mg 279.078	5046.36	ppb	11.7034	0.2	13710.9	100.92729
Mn 257.610	5449.57	ppb	5.2190	0.1	1102230	108.99141
Mo 202.032	489.569	ppb	3.1154	0.6	3323.10	97.91383
Na 330.237	7825.29	ppb	91.6265	1.2	323.920	104.33720
Ni 231.604	2589.94	ppb	21.5261	0.8	7830.12	103.59759
Pb 220.353	490.803	ppb	2.3416	0.5	810.152	98.16064
Sb 206.834	979.849	ppb	8.1151	0.8	1390.96	97.98488
Se 196.026	4832.64	ppb	44.0448	0.9	2084.19	96.65277
Sn 189.925	4933.84	ppb	28.5803	0.6	3733.93	98.67675
Sr 216.596	2466.04	ppb	4.9600	0.2	31599.2	98.64180
Ti 334.941	505.070	ppb	0.5597	0.1	149978	101.01409
Tl 190.794	4916.55	ppb	27.1987	0.6	5189.11	98.33109
V 292.401	4933.04	ppb	12.3149	0.2	128827	98.66072
Zn 206.200	2635.78	ppb	16.8115	0.6	2935.57	105.43135

Cont Calib Blank (CCB) **11/21/2014, 9:36:00 AM** **Rack 4, Tube 50**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	0.0351	0.2213	0.0616
Al 308.215	0.0448	0.4261	1.9429
As 188.980	0.9296	0.8395	4.5014

Label	Replicates Concentration		
B 249.678	6.5517	5.4954	5.3751
Ba 389.178	0.5540	1.7679	0.7621
Be 313.042	0.0196	0.0243	0.0366
Ca 370.602	5.326	8.810	4.732
Cd 226.502	0.2030	0.0808	0.2766
Co 228.615	-0.2941u	-0.2655u	0.1047
Cr 267.716	0.4033	0.6986	0.8442
Cu 324.754	-0.0828u	0.4489	0.5442
Fe 271.441	-0.3909u	6.1421	2.7747
K 766.491	3.6199	3.4176	4.5301
Mg 279.078	1.0400	1.0309	-0.0646u
Mn 257.610	0.3746	0.5011	0.6972
Mo 202.032	0.8641	0.5448	0.7344
Na 330.237	51.1866	-243.103u	11.6994
Ni 231.604	-0.5746u	1.3131	1.4044
Pb 220.353	2.6747	1.0229	3.4949
Sb 206.834	4.1232	6.5313	4.2712
Se 196.026	-1.4299u	-1.0878u	3.4204
Sn 189.925	0.6323	-0.3844u	1.7753
Sr 216.596	0.1879	0.2591	0.5280
Ti 334.941	0.0916	0.1107	0.1931
Tl 190.794	2.9056	-0.6886u	-0.4155u
V 292.401	0.1340	-0.0099u	-0.0717u
Zn 206.200	1.2749	-0.4082u	0.5793

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)	QC Value
Ag 328.068	0.1060	ppb	0.1008	95.1	-14.3065	0.10598
Al 308.215	0.8046	ppb	1.0041	124.8	442.561	0.80460
As 188.980	2.0902	ppb	2.0887	99.9	-5.9799	2.09017
B 249.678	5.8074	ppb	0.6474	11.1	155.104	5.80739
Ba 389.178	1.0280	ppb	0.6492	63.1	-34.1720	1.02802
Be 313.042	0.0268	ppb	0.0088	32.7	-242.884	0.02683
Ca 370.602	6.289	ppb	2.203	35.0	22.57	6.28936
Cd 226.502	0.1868	ppb	0.0989	52.9	24.9755	0.18684
Co 228.615	-0.1516	ppb	0.2224	146.7	-3.5977	-0.15164
Cr 267.716	0.6487	ppb	0.2246	34.6	69.7582	0.64871
Cu 324.754	0.3034	ppb	0.3378	111.3	253.475	0.30342
Fe 271.441	2.8420	ppb	3.2670	115.0	21.5085	2.84197
K 766.491	3.8559	ppb	0.5926	15.4	408.615	3.85588
Mg 279.078	0.6688	ppb	0.6351	95.0	27.3017	0.66877
Mn 257.610	0.5243	ppb	0.1625	31.0	187.472	0.52426
Mo 202.032	0.7144	ppb	0.1605	22.5	10.6144	0.71442
Na 330.237	-60.0722	ppb	159.734	265.9	26.2488	-60.07219
Ni 231.604	0.7143	ppb	1.1171	156.4	-2.8522	0.71428
Pb 220.353	2.3975	ppb	1.2591	52.5	13.7231	2.39750
Sb 206.834	4.9752	ppb	1.3497	27.1	2.2063	4.97523
Se 196.026	0.3009	ppb	2.7070	899.6	-0.9410	0.30090
Sn 189.925	0.6744	ppb	1.0805	160.2	-4.8377	0.67437
Sr 216.596	0.3250	ppb	0.1794	55.2	8.2917	0.32502
Ti 334.941	0.1318	ppb	0.0539	40.9	45.8678	0.13177
Tl 190.794	0.6005	ppb	2.0009	333.2	-8.7525	0.60050
V 292.401	0.0175	ppb	0.1056	604.5	-8.5171	0.01746
Zn 206.200	0.4820	ppb	0.8458	175.5	1.9824	0.48200

CRI (Samp) **11/21/2014, 9:40:20 AM** **Rack 4, Tube 51**
Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	10.3590	10.4527	10.3932
Al 308.215	197.359	198.147	196.138
As 188.980	23.0504	26.3594	21.4890
B 249.678	103.902	104.395	103.109
Ba 389.178	11.2605	11.4903	10.2732
Be 313.042	4.4688	4.4606	4.4300
Ca 370.602	491.4	499.5	492.2
Cd 226.502	5.4277	5.3593	5.1454
Co 228.615	10.1486	10.4014	10.5803
Cr 267.716	10.8503	10.8052	10.6583
Cu 324.754	22.1598	22.1106	22.0209
Fe 271.441	52.3528	50.6346	50.0854
K 766.491	1020.59	1018.69	1014.65
Mg 279.078	514.419	512.660	507.155
Mn 257.610	11.3181	11.2674	11.2558
Mo 202.032	10.1149	10.0106	10.8854
Na 330.237	873.469	832.068	1028.89
Ni 231.604	42.7957	44.0481	42.5441
Pb 220.353	8.0185	10.3935	9.5086
Sb 206.834	22.3856	21.5385	23.1170
Se 196.026	12.7798	16.5545	14.4260
Sn 189.925	53.9350	52.6606	51.3107
Sr 216.596	10.0966	10.0060	9.9507
Ti 334.941	10.3661	10.2735	10.2030
Tl 190.794	24.2925	26.2330	27.4411
V 292.401	10.5745	10.5171	10.5054
Zn 206.200	20.1667	21.8203	20.9405

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	10.4016	ppb	0.0474	0.5	831.177
Al 308.215	197.215	ppb	1.0121	0.5	1777.25
As 188.980	23.6330	ppb	2.4869	10.5	6.0214
B 249.678	103.802	ppb	0.6487	0.6	1783.52
Ba 389.178	11.0080	ppb	0.6466	5.9	178.343
Be 313.042	4.4531	ppb	0.0205	0.5	7841.00
Ca 370.602	494.4	ppb	4.446	0.9	1326
Cd 226.502	5.3108	ppb	0.1473	2.8	238.517
Co 228.615	10.3767	ppb	0.2169	2.1	117.817
Cr 267.716	10.7712	ppb	0.1004	0.9	614.870
Cu 324.754	22.0971	ppb	0.0704	0.3	1736.55
Fe 271.441	51.0242	ppb	1.1829	2.3	102.355
K 766.491	1017.98	ppb	3.0325	0.3	42604.7
Mg 279.078	511.411	ppb	3.7894	0.7	1423.54
Mn 257.610	11.2804	ppb	0.0331	0.3	2366.56
Mo 202.032	10.3370	ppb	0.4778	4.6	75.9153
Na 330.237	911.475	ppb	103.768	11.4	68.9622
Ni 231.604	43.1293	ppb	0.8056	1.9	125.455
Pb 220.353	9.3069	ppb	1.2003	12.9	24.9109
Sb 206.834	22.3470	ppb	0.7900	3.5	25.8708
Se 196.026	14.5868	ppb	1.8925	13.0	5.2225
Sn 189.925	52.6354	ppb	1.3123	2.5	34.5431
Sr 216.596	10.0177	ppb	0.0737	0.7	131.666

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ti 334.941	10.2809	ppb	0.0818	0.8	3060.13
Tl 190.794	25.9889	ppb	1.5884	6.1	18.0526
V 292.401	10.5323	ppb	0.0370	0.4	264.511
Zn 206.200	20.9758	ppb	0.8274	3.9	24.8609

CCV (Samp) **11/21/2014, 9:45:21 AM** **Rack 4, Tube 52**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	511.183	516.342	510.424
Al 308.215	5043.39	5070.78	5045.57
As 188.980	505.047	518.570	504.728
B 249.678	513.161	518.871	517.826
Ba 389.178	5268.90	5297.75	5254.39
Be 313.042	550.197	550.612	548.675
Ca 370.602	4943	4948	4914
Cd 226.502	530.245	532.546	530.120
Co 228.615	533.197	534.013	534.727
Cr 267.716	5300.28	5327.79	5295.38
Cu 324.754	5523.05	5510.89	5520.02
Fe 271.441	5037.01	5068.38	5038.45
K 766.491	10646.8	10719.3	10616.7
Mg 279.078	5073.13	5098.69	5068.48
Mn 257.610	5379.19	5415.14	5399.14
Mo 202.032	499.704	498.971	496.512
Na 330.237	7739.68	7870.24	7828.36
Ni 231.604	2618.96	2606.77	2641.57
Pb 220.353	486.288	495.388	491.311
Sb 206.834	998.253	1004.08	1006.82
Se 196.026	5110.41	5116.33	5106.84
Sn 189.925	4962.39	5005.21	4968.28
Sr 216.596	2475.20	2483.59	2470.14
Ti 334.941	513.746	516.618	512.740
Tl 190.794	4998.00	5025.92	4992.25
V 292.401	5017.81	5054.75	5008.85
Zn 206.200	2649.79	2652.13	2640.00

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	512.650	ppb	3.2204	0.6	42044.5
Al 308.215	5053.25	ppb	15.2258	0.3	35424.4
As 188.980	509.448	ppb	7.9009	1.6	276.578
B 249.678	516.619	ppb	3.0402	0.6	8646.05
Ba 389.178	5273.68	ppb	22.0698	0.4	111682
Be 313.042	549.828	ppb	1.0199	0.2	1004183
Ca 370.602	4935	ppb	18.50	0.4	13479
Cd 226.502	530.971	ppb	1.3659	0.3	22145.8
Co 228.615	533.979	ppb	0.7656	0.1	6165.69
Cr 267.716	5307.82	ppb	17.4698	0.3	285862
Cu 324.754	5517.99	ppb	6.3316	0.1	375627
Fe 271.441	5047.95	ppb	17.7128	0.4	8453.62
K 766.491	10660.9	ppb	52.7369	0.5	443833
Mg 279.078	5080.10	ppb	16.2648	0.3	13801.9
Mn 257.610	5397.83	ppb	18.0113	0.3	1091766
Mo 202.032	498.396	ppb	1.6718	0.3	3382.97

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Na 330.237	7812.76	ppb	66.6640	0.9	323.144
Ni 231.604	2622.43	ppb	17.6606	0.7	7928.42
Pb 220.353	490.996	ppb	4.5581	0.9	810.516
Sb 206.834	1003.05	ppb	4.3740	0.4	1423.14
Se 196.026	5111.20	ppb	4.7921	0.1	2204.33
Sn 189.925	4978.63	ppb	23.2088	0.5	3767.88
Sr 216.596	2476.31	ppb	6.7961	0.3	31730.2
Ti 334.941	514.368	ppb	2.0123	0.4	152739
Tl 190.794	5005.39	ppb	18.0093	0.4	5282.96
V 292.401	5027.13	ppb	24.3281	0.5	131289
Zn 206.200	2647.31	ppb	6.4348	0.2	2948.36

CCB (Samp) **11/21/2014, 9:49:41 AM** **Rack 4, Tube 53**

Weight: 1 **Volume: 1** **Dilution: 1**

Label	Replicates Concentration		
Ag 328.068	-0.1875u	0.1257	0.2152
Al 308.215	-0.2030u	0.1894	2.3084
As 188.980	2.7137	4.8795	1.4891
B 249.678	6.9338	6.5562	5.0843
Ba 389.178	0.9227	0.9958	1.0093
Be 313.042	0.0093	0.0119	0.0017
Ca 370.602	7.863	4.354	8.619
Cd 226.502	0.1104	0.1053	0.0796
Co 228.615	-0.0141u	0.0618	-0.3706u
Cr 267.716	0.3766	0.5146	0.1842
Cu 324.754	0.3690	0.6734	0.5157
Fe 271.441	0.9336	-2.9462u	-2.1699u
K 766.491	3.3828	3.3783	2.8260
Mg 279.078	0.2258	2.3834	0.8984
Mn 257.610	0.3114	0.3212	0.3663
Mo 202.032	0.7579	0.2376	0.7221
Na 330.237	-106.754u	-145.492u	-97.0397u
Ni 231.604	0.6761	-0.1731u	0.0280
Pb 220.353	-0.0891u	0.9725	1.8293
Sb 206.834	7.8142	6.6738	4.4165
Se 196.026	1.4107	-2.8892u	3.9225
Sn 189.925	1.4083	1.2811	1.1534
Sr 216.596	-0.1640u	0.3381	0.3750
Ti 334.941	0.1116	0.1072	0.1422
Tl 190.794	2.9461	1.8084	-0.6356u
V 292.401	0.0946	0.2289	-0.0796u
Zn 206.200	-0.9156u	0.2297	0.6132

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Ag 328.068	0.0512	ppb	0.2114	413.3	-18.8030
Al 308.215	0.7649	ppb	1.3510	176.6	442.279
As 188.980	3.0274	ppb	1.7168	56.7	-5.4576
B 249.678	6.1914	ppb	0.9772	15.8	161.501
Ba 389.178	0.9760	ppb	0.0466	4.8	-35.2784
Be 313.042	0.0076	ppb	0.0053	69.9	-277.930
Ca 370.602	6.945	ppb	2.276	32.8	24.32
Cd 226.502	0.0984	ppb	0.0165	16.8	21.2855
Co 228.615	-0.1076	ppb	0.2308	214.5	-3.0905

E11202014B.wvq. All Data Report 11/21/2014, 11:18:49 AM

Label	Sol'n Conc.	Units	SD	%RSD	Int. (c/s)
Cr 267.716	0.3585	ppb	0.1659	46.3	54.1261
Cu 324.754	0.5194	ppb	0.1522	29.3	268.167
Fe 271.441	-1.3942	ppb	2.0530	147.2	14.5229
K 766.491	3.1957	ppb	0.3202	10.0	381.146
Mg 279.078	1.1692	ppb	1.1040	94.4	28.6742
Mn 257.610	0.3330	ppb	0.0293	8.8	148.773
Mo 202.032	0.5725	ppb	0.2906	50.8	9.6515
Na 330.237	-116.428	ppb	25.6341	22.0	23.7613
Ni 231.604	0.1770	ppb	0.4438	250.7	-4.4781
Pb 220.353	0.9042	ppb	0.9610	106.3	11.3022
Sb 206.834	6.3015	ppb	1.7292	27.4	4.0125
Se 196.026	0.8147	ppb	3.4447	422.8	-0.7195
Sn 189.925	1.2809	ppb	0.1275	10.0	-4.3780
Sr 216.596	0.1830	ppb	0.3011	164.5	6.4889
Ti 334.941	0.1203	ppb	0.0191	15.8	42.4800
Tl 190.794	1.3730	ppb	1.8301	133.3	-7.9368
V 292.401	0.0813	ppb	0.1547	190.2	-6.8220
Zn 206.200	-0.0242	ppb	0.7954	3282.2	1.4172

METALS BATCH WORKSHEET

Lab Name: TestAmerica Savannah Job No.: 680-107310-1

SDG No.: 680-107310-1

Batch Number: 359032 Batch Start Date: 11/17/14 09:21 Batch Analyst: West, Ryan

Batch Method: 3050B Batch End Date: 11/17/14 15:57

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	MS_Ag_LCS_SPK 00027	MS_LCS1_WK 00015	MS_LCS2_wk 00167
MB 680-359032/1		3050B, 6010C		CALC NOT SET TO RUN	1.10 g	100 mL			
LCS 680-359032/2		3050B, 6010C		CALC NOT SET TO RUN	1.01 g	100 mL	1 mL	1 mL	1 mL
680-107310-B-6	CV0971A0APa-CS0-4''	3050B, 6010C	T	CALC NOT SET TO RUN	1.14 g	100 mL			
680-107310-B-6 MS	CV0971A0APa-CS0-4''	3050B, 6010C	T	CALC NOT SET TO RUN	1.16 g	100 mL	1 mL	1 mL	1 mL
680-107310-B-6 MSD	CV0971AOAPa-CS0-4''	3050B, 6010C	T	CALC NOT SET TO RUN	1.15 g	100 mL	1 mL	1 mL	1 mL
680-107310-B-1	CV1061A-CS0-4''	3050B, 6010C	T	CALC NOT SET TO RUN	1.16 g	100 mL			
680-107310-B-2	CV1061B-CS0-4''	3050B, 6010C	T	CALC NOT SET TO RUN	1.13 g	100 mL			
680-107310-B-3	CV1063A-CS0-4''	3050B, 6010C	T	CALC NOT SET TO RUN	1.10 g	100 mL			
680-107310-B-4	CV1063A-CSD0-4''	3050B, 6010C	T	CALC NOT SET TO RUN	1.18 g	100 mL			
680-107310-B-5	CV1063B-CS0-4''	3050B, 6010C	T	CALC NOT SET TO RUN	1.00 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.: 680-107310-1

SDG No.: 680-107310-1

Batch Number: 359032 Batch Start Date: 11/17/14 09:21 Batch Analyst: West, Ryan

Batch Method: 3050B Batch End Date: 11/17/14 15:57

Batch Notes	
Analyst	CRW
Balance ID	ME 25
Blank Soil Lot Number	3818263
Hydrogen peroxide lot number	3804513
Lot # of hydrochloric acid	3822128
Lot # of Nitric Acid	3822131
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	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 #	3797047
Uncorrected Temperature	95 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.

Shipping and Receiving Documents

Serial Number 89187

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

(X) 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 Removal	PROJECT NO.: 20140706-1006	PROJECT LOCATION (STATE): AL	PAGE 1 OF 1
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ( )
CLIENT (SITE) PM: Russell Henderson	CLIENT PHONE: 678-255-[illegible]	CLIENT FAX: 770/528-0167	DATE DUE
CLIENT NAME: OTIE	CLIENT E-MAIL: rhenderson@otie.com		EXPEDITED REPORT DELIVERY (SURCHARGE) (X)
CLIENT ADDRESS: 1220 Kennestone Cir. Ste 108, Marietta, GA 30066			DATE DUE: 7 days
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 / NUMBER OF CONTAINERS SUBMITTED

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	L.L. PAH (ice)	Al, As, Fe, Pb (ice)	REMARKS
11/13/14	1035	CV1061A-CS04"	X					X	X	
	1040	CV1061B-CS04"	X					X	X	
	~~1048~~ 1105	CV1063A-CS04"	X					X	X	
	1110	CV1063A-CS04"	X					X	X	
11/13/14	1115	CV1063B-CS04"	X					X	X	~~MS/MSD~~
11/13/14	1145	CV0971A~~0A~~Pa-CS04"	X					X	X	MS/MSD

PRESERVATIVE

680-107310 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	11/14/14	1500						
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
	11/15/14	9:30	YES (X) NO ( )		680-107310	1.6° CUIR5: 1.3°

TAL8240-680 (1008)

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-107310-1
SDG Number: 680-107310-1

Login Number: 107310
List Number: 1
Creator: West, Lauren H

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: 680-107310-1
TestAmerica Sample Delivery Group: 680-107310-1
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:
11/24/2014 1:41:59 PM
Bernard Kirkland, Manager of Project Management
(912)354-7858 e.3238
bernard.kirkland@testamericainc.com

Designee for

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: 680-107310-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE
Client: Oneida Total Integrated Enterprises LLC
Project: 35th Avenue Superfund Site
Report Number: 680-107310-1

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.

RECEIPT

The samples were received on 11/15/2014; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.3 C.

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH

Samples CV1061A-CS0-4" (680-107310-1), CV1061B-CS0-4" (680-107310-2), CV1063A-CS0-4" (680-107310-3), CV1063A-CSD0-4" (680-107310-4), CV1063B-CS0-4" (680-107310-5) and CV0971A0APa-CS0-4" (680-107310-6) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW846 Method 8270D. The samples were prepared on 11/17/2014 and analyzed on 11/19/2014.

Samples CV1061A-CS0-4" (680-107310-1)[10X], CV1061B-CS0-4" (680-107310-2)[10X], CV1063A-CS0-4" (680-107310-3)[10X], CV1063A-CSD0-4" (680-107310-4)[10X], CV1063B-CS0-4" (680-107310-5)[10X] and CV0971A0APa-CS0-4" (680-107310-6)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly. As such, surrogate were diluted out and are not reported. Also elevated reporting limits (RLs) are provided.

Benzo[k]fluoranthene, Fluoranthene and Pyrene recovered outside the recovery criteria low for the MS of sample CV0971A0APa-CS0-4"MS (680-107310-6) in batch 680-359503.

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

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

METALS (ICP)

Samples CV1061A-CS0-4" (680-107310-1), CV1061B-CS0-4" (680-107310-2), CV1063A-CS0-4" (680-107310-3), CV1063A-CSD0-4" (680-107310-4), CV1063B-CS0-4" (680-107310-5) and CV0971A0APa-CS0-4" (680-107310-6) were analyzed for Metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 11/17/2014 and analyzed on 11/20/2014.

Lead recovered outside the recovery criteria low for the MS/MSD of sample CV0971A0APa-CS0-4' (680-107310-6) in batch 680-359921. Aluminum failed the recovery criteria high.

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

PERCENT SOLIDS/MOISTURE

Samples CV1061A-CS0-4" (680-107310-1), CV1061B-CS0-4" (680-107310-2), CV1063A-CS0-4" (680-107310-3), CV1063A-CSD0-4" (680-107310-4), CV1063B-CS0-4" (680-107310-5) and CV0971A0APa-CS0-4" (680-107310-6) were analyzed for Percent Solids/Moisture in accordance with TestAmerica SOP. The samples were analyzed on 11/15/2014.

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

Job ID: 680-107310-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Sample Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-107310-1
SDG: 680-107310-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-107310-1	CV1061A-CS0-4"	Solid	11/13/14 10:35	11/15/14 09:30
680-107310-2	CV1061B-CS0-4"	Solid	11/13/14 10:40	11/15/14 09:30
680-107310-3	CV1063A-CS0-4"	Solid	11/13/14 11:05	11/15/14 09:30
680-107310-4	CV1063A-CSD0-4"	Solid	11/13/14 11:10	11/15/14 09:30
680-107310-5	CV1063B-CS0-4"	Solid	11/13/14 11:15	11/15/14 09:30
680-107310-6	CV0971A0APa-CS0-4"	Solid	11/13/14 11:45	11/15/14 09:30

Method Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-107310-1
SDG: 680-107310-1

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
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.
F1	MS and/or MSD Recovery exceeds the control limits

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
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: 680-107310-1
SDG: 680-107310-1

Client Sample ID: CV1061A-CS0-4"

Lab Sample ID: 680-107310-1

Date Collected: 11/13/14 10:35
Matrix: Solid
Date Received: 11/15/14 09:30
Percent Solids: 85.0

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	79	U	79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:40	10
Acenaphthylene	79	U	79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:40	10
Anthracene	**41**	**J**	79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:40	10
Benzo[a]anthracene	**240**		79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:40	10
Benzo[a]pyrene	**240**		79	14	ug/Kg	☼	11/17/14 12:45	11/19/14 19:40	10
Benzo[b]fluoranthene	**390**		79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:40	10
Benzo[g,h,i]perylene	**230**		79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:40	10
Benzo[k]fluoranthene	**170**		79	24	ug/Kg	☼	11/17/14 12:45	11/19/14 19:40	10
Chrysene	**390**		79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:40	10
Dibenz(a,h)anthracene	**69**	**J**	79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:40	10
Fluoranthene	**410**		79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:40	10
Fluorene	79	U	79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:40	10
Indeno[1,2,3-cd]pyrene	**170**		79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:40	10
1-Methylnaphthalene	**120**		79	37	ug/Kg	☼	11/17/14 12:45	11/19/14 19:40	10
2-Methylnaphthalene	**110**		79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:40	10
Naphthalene	**92**		79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:40	10
Phenanthrene	**340**		79	28	ug/Kg	☼	11/17/14 12:45	11/19/14 19:40	10
Pyrene	**390**		79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:40	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*11/17/14 12:45*	*11/19/14 19:40*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		20	10	mg/Kg	☼	11/17/14 09:21	11/20/14 18:22	1
Arsenic	**55**		2.0	0.60	mg/Kg	☼	11/17/14 09:21	11/20/14 18:22	1
Iron	**69000**		20	7.1	mg/Kg	☼	11/17/14 09:21	11/20/14 18:22	1
Lead	**500**		1.0	0.54	mg/Kg	☼	11/17/14 09:21	11/20/14 18:22	1

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-107310-1
SDG: 680-107310-1

Client Sample ID: CV1061B-CS0-4"

Lab Sample ID: 680-107310-2

Date Collected: 11/13/14 10:40
Date Received: 11/15/14 09:30

Matrix: Solid
Percent Solids: 85.7

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	78	U	78	38	ug/Kg	☼	11/17/14 12:45	11/19/14 20:03	10
Acenaphthylene	78	U	78	38	ug/Kg	☼	11/17/14 12:45	11/19/14 20:03	10
Anthracene	78	U	78	38	ug/Kg	☼	11/17/14 12:45	11/19/14 20:03	10
Benzo[a]anthracene	**200**		78	38	ug/Kg	☼	11/17/14 12:45	11/19/14 20:03	10
Benzo[a]pyrene	**230**		78	14	ug/Kg	☼	11/17/14 12:45	11/19/14 20:03	10
Benzo[b]fluoranthene	**430**		78	38	ug/Kg	☼	11/17/14 12:45	11/19/14 20:03	10
Benzo[g,h,i]perylene	**210**		78	38	ug/Kg	☼	11/17/14 12:45	11/19/14 20:03	10
Benzo[k]fluoranthene	**130**		78	23	ug/Kg	☼	11/17/14 12:45	11/19/14 20:03	10
Chrysene	**320**		78	38	ug/Kg	☼	11/17/14 12:45	11/19/14 20:03	10
Dibenz(a,h)anthracene	**78**		78	38	ug/Kg	☼	11/17/14 12:45	11/19/14 20:03	10
Fluoranthene	**370**		78	38	ug/Kg	☼	11/17/14 12:45	11/19/14 20:03	10
Fluorene	78	U	78	38	ug/Kg	☼	11/17/14 12:45	11/19/14 20:03	10
Indeno[1,2,3-cd]pyrene	**180**		78	38	ug/Kg	☼	11/17/14 12:45	11/19/14 20:03	10
1-Methylnaphthalene	**55**	**J**	78	36	ug/Kg	☼	11/17/14 12:45	11/19/14 20:03	10
2-Methylnaphthalene	**65**	**J**	78	38	ug/Kg	☼	11/17/14 12:45	11/19/14 20:03	10
Naphthalene	**56**	**J**	78	38	ug/Kg	☼	11/17/14 12:45	11/19/14 20:03	10
Phenanthrene	**270**		78	28	ug/Kg	☼	11/17/14 12:45	11/19/14 20:03	10
Pyrene	**330**		78	38	ug/Kg	☼	11/17/14 12:45	11/19/14 20:03	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*11/17/14 12:45*	*11/19/14 20:03*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		21	10	mg/Kg	☼	11/17/14 09:21	11/20/14 18:27	1
Arsenic	**41**		2.1	0.61	mg/Kg	☼	11/17/14 09:21	11/20/14 18:27	1
Iron	**77000**		21	7.2	mg/Kg	☼	11/17/14 09:21	11/20/14 18:27	1
Lead	**370**		1.0	0.55	mg/Kg	☼	11/17/14 09:21	11/20/14 18:27	1

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-107310-1
SDG: 680-107310-1

Client Sample ID: CV1063A-CS0-4"

Lab Sample ID: 680-107310-3

Date Collected: 11/13/14 11:05
Date Received: 11/15/14 09:30

Matrix: Solid
Percent Solids: 81.8

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	82	U	82	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:25	10
Acenaphthylene	82	U	82	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:25	10
Anthracene	82	U	82	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:25	10
Benzo[a]anthracene	**310**		82	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:25	10
Benzo[a]pyrene	**320**		82	15	ug/Kg	☼	11/17/14 12:45	11/19/14 20:25	10
Benzo[b]fluoranthene	**610**		82	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:25	10
Benzo[g,h,i]perylene	**280**		82	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:25	10
Benzo[k]fluoranthene	**180**		82	24	ug/Kg	☼	11/17/14 12:45	11/19/14 20:25	10
Chrysene	**440**		82	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:25	10
Dibenz(a,h)anthracene	**110**		82	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:25	10
Fluoranthene	**380**		82	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:25	10
Fluorene	82	U	82	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:25	10
Indeno[1,2,3-cd]pyrene	**220**		82	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:25	10
1-Methylnaphthalene	**110**		82	38	ug/Kg	☼	11/17/14 12:45	11/19/14 20:25	10
2-Methylnaphthalene	**140**		82	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:25	10
Naphthalene	**130**		82	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:25	10
Phenanthrene	**260**		82	29	ug/Kg	☼	11/17/14 12:45	11/19/14 20:25	10
Pyrene	**420**		82	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*11/17/14 12:45*	*11/19/14 20:25*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		22	11	mg/Kg	☼	11/17/14 09:21	11/20/14 18:31	1
Arsenic	**25**		2.2	0.66	mg/Kg	☼	11/17/14 09:21	11/20/14 18:31	1
Iron	**45000**		22	7.8	mg/Kg	☼	11/17/14 09:21	11/20/14 18:31	1
Lead	**310**		1.1	0.59	mg/Kg	☼	11/17/14 09:21	11/20/14 18:31	1

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-107310-1
SDG: 680-107310-1

Client Sample ID: CV1063A-CSD0-4"

Lab Sample ID: 680-107310-4

Date Collected: 11/13/14 11:10
Date Received: 11/15/14 09:30

Matrix: Solid
Percent Solids: 82.5

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	81	U	81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:48	10
Acenaphthylene	81	U	81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:48	10
Anthracene	81	U	81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:48	10
Benzo[a]anthracene	**270**		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:48	10
Benzo[a]pyrene	**280**		81	15	ug/Kg	☼	11/17/14 12:45	11/19/14 20:48	10
Benzo[b]fluoranthene	**520**		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:48	10
Benzo[g,h,i]perylene	**230**		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:48	10
Benzo[k]fluoranthene	**160**		81	24	ug/Kg	☼	11/17/14 12:45	11/19/14 20:48	10
Chrysene	**390**		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:48	10
Dibenz(a,h)anthracene	**85**		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:48	10
Fluoranthene	**380**		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:48	10
Fluorene	81	U	81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:48	10
Indeno[1,2,3-cd]pyrene	**210**		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:48	10
1-Methylnaphthalene	**110**		81	38	ug/Kg	☼	11/17/14 12:45	11/19/14 20:48	10
2-Methylnaphthalene	**130**		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:48	10
Naphthalene	**130**		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:48	10
Phenanthrene	**260**		81	29	ug/Kg	☼	11/17/14 12:45	11/19/14 20:48	10
Pyrene	**340**		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 20:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*11/17/14 12:45*	*11/19/14 20:48*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		21	10	mg/Kg	☼	11/17/14 09:21	11/20/14 18:35	1
Arsenic	**26**		2.1	0.61	mg/Kg	☼	11/17/14 09:21	11/20/14 18:35	1
Iron	**46000**		21	7.2	mg/Kg	☼	11/17/14 09:21	11/20/14 18:35	1
Lead	**320**		1.0	0.54	mg/Kg	☼	11/17/14 09:21	11/20/14 18:35	1

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-107310-1
SDG: 680-107310-1

Client Sample ID: CV1063B-CS0-4"

Lab Sample ID: 680-107310-5

Date Collected: 11/13/14 11:15
Date Received: 11/15/14 09:30

Matrix: Solid
Percent Solids: 82.8

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	930		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 21:11	10
Acenaphthylene	81	U	81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 21:11	10
Anthracene	1300		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 21:11	10
Benzo[a]anthracene	2800		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 21:11	10
Benzo[a]pyrene	2300		81	14	ug/Kg	☼	11/17/14 12:45	11/19/14 21:11	10
Benzo[b]fluoranthene	3100		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 21:11	10
Benzo[g,h,i]perylene	1400		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 21:11	10
Benzo[k]fluoranthene	1400		81	24	ug/Kg	☼	11/17/14 12:45	11/19/14 21:11	10
Chrysene	2900		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 21:11	10
Dibenz(a,h)anthracene	550		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 21:11	10
Fluoranthene	5100		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 21:11	10
Fluorene	710		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 21:11	10
Indeno[1,2,3-cd]pyrene	1400		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 21:11	10
1-Methylnaphthalene	910		81	37	ug/Kg	☼	11/17/14 12:45	11/19/14 21:11	10
2-Methylnaphthalene	970		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 21:11	10
Naphthalene	1200		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 21:11	10
Phenanthrene	6400		81	29	ug/Kg	☼	11/17/14 12:45	11/19/14 21:11	10
Pyrene	5000		81	40	ug/Kg	☼	11/17/14 12:45	11/19/14 21:11	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*11/17/14 12:45*	*11/19/14 21:11*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	13000		24	12	mg/Kg	☼	11/17/14 09:21	11/20/14 18:40	1
Arsenic	27		2.4	0.71	mg/Kg	☼	11/17/14 09:21	11/20/14 18:40	1
Iron	46000		24	8.5	mg/Kg	☼	11/17/14 09:21	11/20/14 18:40	1
Lead	610		1.2	0.64	mg/Kg	☼	11/17/14 09:21	11/20/14 18:40	1

Client Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-107310-1
SDG: 680-107310-1

Client Sample ID: CV0971A0APa-CS0-4"

Lab Sample ID: 680-107310-6

Date Collected: 11/13/14 11:45
Date Received: 11/15/14 09:30

Matrix: Solid
Percent Solids: 84.5

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	79	U	79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:17	10
Acenaphthylene	**49**	**J**	79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:17	10
Anthracene	**79**		79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:17	10
Benzo[a]anthracene	**480**		79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:17	10
Benzo[a]pyrene	**560**		79	14	ug/Kg	☼	11/17/14 12:45	11/19/14 19:17	10
Benzo[b]fluoranthene	**780**		79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:17	10
Benzo[g,h,i]perylene	**490**		79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:17	10
Benzo[k]fluoranthene	**340**		79	24	ug/Kg	☼	11/17/14 12:45	11/19/14 19:17	10
Chrysene	**660**		79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:17	10
Dibenz(a,h)anthracene	**150**		79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:17	10
Fluoranthene	**790**		79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:17	10
Fluorene	79	U	79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:17	10
Indeno[1,2,3-cd]pyrene	**450**		79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:17	10
1-Methylnaphthalene	**72**	**J**	79	37	ug/Kg	☼	11/17/14 12:45	11/19/14 19:17	10
2-Methylnaphthalene	**96**		79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:17	10
Naphthalene	**90**		79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:17	10
Phenanthrene	**380**		79	28	ug/Kg	☼	11/17/14 12:45	11/19/14 19:17	10
Pyrene	**740**		79	39	ug/Kg	☼	11/17/14 12:45	11/19/14 19:17	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*0*	*D*	*36 - 131*	*11/17/14 12:45*	*11/19/14 19:17*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**13000**		21	10	mg/Kg	☼	11/17/14 09:21	11/20/14 18:01	1
Arsenic	**23**		2.1	0.61	mg/Kg	☼	11/17/14 09:21	11/20/14 18:01	1
Iron	**36000**		21	7.3	mg/Kg	☼	11/17/14 09:21	11/20/14 18:01	1
Lead	**190**		1.0	0.55	mg/Kg	☼	11/17/14 09:21	11/20/14 18:01	1

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Lab Sample ID: MB 680-359074/11-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 359503 — **Prep Batch: 359074**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	6.7	U	6.7	3.3	ug/Kg		11/17/14 12:45	11/19/14 17:46	1
Acenaphthylene	6.7	U	6.7	3.3	ug/Kg		11/17/14 12:45	11/19/14 17:46	1
Anthracene	6.7	U	6.7	3.3	ug/Kg		11/17/14 12:45	11/19/14 17:46	1
Benzo[a]anthracene	6.7	U	6.7	3.3	ug/Kg		11/17/14 12:45	11/19/14 17:46	1
Benzo[a]pyrene	6.7	U	6.7	1.2	ug/Kg		11/17/14 12:45	11/19/14 17:46	1
Benzo[b]fluoranthene	6.7	U	6.7	3.3	ug/Kg		11/17/14 12:45	11/19/14 17:46	1
Benzo[g,h,i]perylene	6.7	U	6.7	3.3	ug/Kg		11/17/14 12:45	11/19/14 17:46	1
Benzo[k]fluoranthene	6.7	U	6.7	2.0	ug/Kg		11/17/14 12:45	11/19/14 17:46	1
Chrysene	6.7	U	6.7	3.3	ug/Kg		11/17/14 12:45	11/19/14 17:46	1
Dibenz(a,h)anthracene	6.7	U	6.7	3.3	ug/Kg		11/17/14 12:45	11/19/14 17:46	1
Fluoranthene	6.7	U	6.7	3.3	ug/Kg		11/17/14 12:45	11/19/14 17:46	1
Fluorene	6.7	U	6.7	3.3	ug/Kg		11/17/14 12:45	11/19/14 17:46	1
Indeno[1,2,3-cd]pyrene	6.7	U	6.7	3.3	ug/Kg		11/17/14 12:45	11/19/14 17:46	1
1-Methylnaphthalene	6.7	U	6.7	3.1	ug/Kg		11/17/14 12:45	11/19/14 17:46	1
2-Methylnaphthalene	6.7	U	6.7	3.3	ug/Kg		11/17/14 12:45	11/19/14 17:46	1
Naphthalene	6.7	U	6.7	3.3	ug/Kg		11/17/14 12:45	11/19/14 17:46	1
Phenanthrene	6.7	U	6.7	2.4	ug/Kg		11/17/14 12:45	11/19/14 17:46	1
Pyrene	6.7	U	6.7	3.3	ug/Kg		11/17/14 12:45	11/19/14 17:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
o-Terphenyl	*87*		*36 - 131*	*11/17/14 12:45*	*11/19/14 17:46*	*1*

Lab Sample ID: LCS 680-359074/12-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 359503 — **Prep Batch: 359074**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	333	250		ug/Kg		75	33 - 130
Acenaphthylene	333	220		ug/Kg		66	37 - 131
Anthracene	333	254		ug/Kg		76	42 - 146
Benzo[a]anthracene	333	272		ug/Kg		82	39 - 157
Benzo[a]pyrene	333	293		ug/Kg		88	41 - 158
Benzo[b]fluoranthene	333	287		ug/Kg		86	35 - 152
Benzo[g,h,i]perylene	333	335		ug/Kg		100	32 - 150
Benzo[k]fluoranthene	333	300		ug/Kg		90	38 - 148
Chrysene	333	270		ug/Kg		81	38 - 147
Dibenz(a,h)anthracene	333	346		ug/Kg		104	32 - 155
Fluoranthene	333	266		ug/Kg		80	36 - 147
Fluorene	333	238		ug/Kg		72	36 - 138
Indeno[1,2,3-cd]pyrene	333	320		ug/Kg		96	35 - 148
1-Methylnaphthalene	333	257		ug/Kg		77	36 - 130
2-Methylnaphthalene	333	249		ug/Kg		75	42 - 130
Naphthalene	333	233		ug/Kg		70	33 - 130
Phenanthrene	333	277		ug/Kg		83	40 - 135
Pyrene	333	236		ug/Kg		71	38 - 145

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

Lab Sample ID: LCS 680-359074/12-A
Matrix: Solid
Analysis Batch: 359503

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 359074

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
o-Terphenyl	*65*		*36 - 131*

Lab Sample ID: 680-107310-6 MS
Matrix: Solid
Analysis Batch: 359503

Client Sample ID: CV0971A0APa-CS0-4"
Prep Type: Total/NA
Prep Batch: 359074

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	79	U	395	257		ug/Kg	☼	65	33 - 130
Acenaphthylene	49	J	395	255		ug/Kg	☼	52	37 - 131
Anthracene	79		395	288		ug/Kg	☼	53	42 - 146
Benzo[a]anthracene	480		395	653		ug/Kg	☼	44	39 - 157
Benzo[a]pyrene	560		395	730		ug/Kg	☼	43	41 - 158
Benzo[b]fluoranthene	780		395	974		ug/Kg	☼	49	35 - 152
Benzo[g,h,i]perylene	490		395	718		ug/Kg	☼	58	32 - 150
Benzo[k]fluoranthene	340		395	469	F1	ug/Kg	☼	33	38 - 148
Chrysene	660		395	852		ug/Kg	☼	47	38 - 147
Dibenz(a,h)anthracene	150		395	482		ug/Kg	☼	83	32 - 155
Fluoranthene	790		395	904	F1	ug/Kg	☼	28	36 - 147
Fluorene	79	U	395	221		ug/Kg	☼	56	36 - 138
Indeno[1,2,3-cd]pyrene	450		395	846		ug/Kg	☼	100	35 - 148
1-Methylnaphthalene	72	J	395	331		ug/Kg	☼	66	36 - 130
2-Methylnaphthalene	96		395	340		ug/Kg	☼	62	42 - 130
Naphthalene	90		395	323		ug/Kg	☼	59	33 - 130
Phenanthrene	380		395	579		ug/Kg	☼	50	40 - 135
Pyrene	740		395	827	F1	ug/Kg	☼	21	38 - 145

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
o-Terphenyl	*0*	*D*	*36 - 131*

Lab Sample ID: 680-107310-6 MSD
Matrix: Solid
Analysis Batch: 359503

Client Sample ID: CV0971AOAPa-CS0-4"
Prep Type: Total/NA
Prep Batch: 359074

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	79	U	394	282		ug/Kg	☼	72	33 - 130	9	50
Acenaphthylene	49	J	394	318		ug/Kg	☼	68	37 - 131	22	50
Anthracene	79		394	346		ug/Kg	☼	68	42 - 146	19	50
Benzo[a]anthracene	480		394	980		ug/Kg	☼	127	39 - 157	40	50
Benzo[a]pyrene	560		394	1030		ug/Kg	☼	120	41 - 158	34	50
Benzo[b]fluoranthene	780		394	1290		ug/Kg	☼	130	35 - 152	28	50
Benzo[g,h,i]perylene	490		394	894		ug/Kg	☼	103	32 - 150	22	50
Benzo[k]fluoranthene	340		394	718		ug/Kg	☼	97	38 - 148	42	50
Chrysene	660		394	1090		ug/Kg	☼	107	38 - 147	24	50
Dibenz(a,h)anthracene	150		394	524		ug/Kg	☼	94	32 - 155	8	50
Fluoranthene	790		394	1130		ug/Kg	☼	85	36 - 147	22	50
Fluorene	79	U	394	270		ug/Kg	☼	69	36 - 138	20	50
Indeno[1,2,3-cd]pyrene	450		394	844		ug/Kg	☼	100	35 - 148	0	50
1-Methylnaphthalene	72	J	394	346		ug/Kg	☼	70	36 - 130	4	50

Method: 8270D_LL_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH (Continued)

Lab Sample ID: 680-107310-6 MSD — **Client Sample ID: CV0971AOAPa-CS0-4"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 359503 — **Prep Batch: 359074**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	96		394	361		ug/Kg	☼	67	42 - 130	6	50
Naphthalene	90		394	349		ug/Kg	☼	66	33 - 130	8	50
Phenanthrene	380		394	689		ug/Kg	☼	78	40 - 135	17	50
Pyrene	740		394	1150		ug/Kg	☼	102	38 - 145	32	50

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
o-Terphenyl	*0*	*D*	*36 - 131*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 680-359032/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 359921 — **Prep Batch: 359032**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	18	U	18	9.1	mg/Kg		11/17/14 09:21	11/20/14 17:44	1
Arsenic	1.8	U	1.8	0.54	mg/Kg		11/17/14 09:21	11/20/14 17:44	1
Iron	18	U	18	6.4	mg/Kg		11/17/14 09:21	11/20/14 17:44	1
Lead	0.91	U	0.91	0.48	mg/Kg		11/17/14 09:21	11/20/14 17:44	1

Lab Sample ID: LCS 680-359032/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 359921 — **Prep Batch: 359032**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	495	480		mg/Kg		97	80 - 120
Arsenic	9.90	10.3		mg/Kg		104	80 - 120
Iron	495	484		mg/Kg		98	80 - 120
Lead	49.5	48.7		mg/Kg		98	80 - 120

Lab Sample ID: 680-107310-6 MS — **Client Sample ID: CV0971A0APa-CS0-4"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 359921 — **Prep Batch: 359032**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	13000		510	14800	4	mg/Kg	☼	266	75 - 125
Arsenic	23		10.2	34.5		mg/Kg	☼	109	75 - 125
Iron	36000		510	36800	4	mg/Kg	☼	121	75 - 125
Lead	190		51.0	213	F1	mg/Kg	☼	53	75 - 125

Lab Sample ID: 680-107310-6 MSD — **Client Sample ID: CV0971AOAPa-CS0-4"**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 359921 — **Prep Batch: 359032**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	13000		515	14500	4	mg/Kg	☼	196	75 - 125	2	20
Arsenic	23		10.3	36.0		mg/Kg	☼	122	75 - 125	4	20
Iron	36000		515	37500	4	mg/Kg	☼	246	75 - 125	2	20

QC Sample Results

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-107310-1
SDG: 680-107310-1

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

Lab Sample ID: 680-107310-6 MSD
Matrix: Solid
Analysis Batch: 359921

Client Sample ID: CV0971AOAPa-CS0-4"
Prep Type: Total/NA
Prep Batch: 359032

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	190		51.5	222	F1	mg/Kg	☼	70	75 - 125	4	20

QC Association Summary

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-107310-1
SDG: 680-107310-1

GC/MS Semi VOA

Prep Batch: 359074

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-107310-1	CV1061A-CS0-4"	Total/NA	Solid	3546	
680-107310-2	CV1061B-CS0-4"	Total/NA	Solid	3546	
680-107310-3	CV1063A-CS0-4"	Total/NA	Solid	3546	
680-107310-4	CV1063A-CSD0-4"	Total/NA	Solid	3546	
680-107310-5	CV1063B-CS0-4"	Total/NA	Solid	3546	
680-107310-6	CV0971A0APa-CS0-4"	Total/NA	Solid	3546	
680-107310-6 MS	CV0971A0APa-CS0-4"	Total/NA	Solid	3546	
680-107310-6 MSD	CV0971AOAPa-CS0-4"	Total/NA	Solid	3546	
LCS 680-359074/12-A	Lab Control Sample	Total/NA	Solid	3546	
MB 680-359074/11-A	Method Blank	Total/NA	Solid	3546	

Analysis Batch: 359503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-107310-1	CV1061A-CS0-4"	Total/NA	Solid	8270D_LL_PAH	359074
680-107310-2	CV1061B-CS0-4"	Total/NA	Solid	8270D_LL_PAH	359074
680-107310-3	CV1063A-CS0-4"	Total/NA	Solid	8270D_LL_PAH	359074
680-107310-4	CV1063A-CSD0-4"	Total/NA	Solid	8270D_LL_PAH	359074
680-107310-5	CV1063B-CS0-4"	Total/NA	Solid	8270D_LL_PAH	359074
680-107310-6	CV0971A0APa-CS0-4"	Total/NA	Solid	8270D_LL_PAH	359074
680-107310-6 MS	CV0971A0APa-CS0-4"	Total/NA	Solid	8270D_LL_PAH	359074
680-107310-6 MSD	CV0971AOAPa-CS0-4"	Total/NA	Solid	8270D_LL_PAH	359074
LCS 680-359074/12-A	Lab Control Sample	Total/NA	Solid	8270D_LL_PAH	359074
MB 680-359074/11-A	Method Blank	Total/NA	Solid	8270D_LL_PAH	359074

Metals

Prep Batch: 359032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-107310-1	CV1061A-CS0-4"	Total/NA	Solid	3050B	
680-107310-2	CV1061B-CS0-4"	Total/NA	Solid	3050B	
680-107310-3	CV1063A-CS0-4"	Total/NA	Solid	3050B	
680-107310-4	CV1063A-CSD0-4"	Total/NA	Solid	3050B	
680-107310-5	CV1063B-CS0-4"	Total/NA	Solid	3050B	
680-107310-6	CV0971A0APa-CS0-4"	Total/NA	Solid	3050B	
680-107310-6 MS	CV0971A0APa-CS0-4"	Total/NA	Solid	3050B	
680-107310-6 MSD	CV0971AOAPa-CS0-4"	Total/NA	Solid	3050B	
LCS 680-359032/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 680-359032/1-A	Method Blank	Total/NA	Solid	3050B	

Analysis Batch: 359921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-107310-1	CV1061A-CS0-4"	Total/NA	Solid	6010C	359032
680-107310-2	CV1061B-CS0-4"	Total/NA	Solid	6010C	359032
680-107310-3	CV1063A-CS0-4"	Total/NA	Solid	6010C	359032
680-107310-4	CV1063A-CSD0-4"	Total/NA	Solid	6010C	359032
680-107310-5	CV1063B-CS0-4"	Total/NA	Solid	6010C	359032
680-107310-6	CV0971A0APa-CS0-4"	Total/NA	Solid	6010C	359032
680-107310-6 MS	CV0971A0APa-CS0-4"	Total/NA	Solid	6010C	359032
680-107310-6 MSD	CV0971AOAPa-CS0-4"	Total/NA	Solid	6010C	359032
LCS 680-359032/2-A	Lab Control Sample	Total/NA	Solid	6010C	359032

Metals (Continued)

Analysis Batch: 359921 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 680-359032/1-A	Method Blank	Total/NA	Solid	6010C	359032

General Chemistry

Analysis Batch: 358925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-107310-1	CV1061A-CS0-4"	Total/NA	Solid	Moisture	
680-107310-2	CV1061B-CS0-4"	Total/NA	Solid	Moisture	
680-107310-3	CV1063A-CS0-4"	Total/NA	Solid	Moisture	
680-107310-4	CV1063A-CSD0-4"	Total/NA	Solid	Moisture	
680-107310-5	CV1063B-CS0-4"	Total/NA	Solid	Moisture	
680-107310-6	CV0971A0APa-CS0-4"	Total/NA	Solid	Moisture	
680-107310-6 MS	CV0971A0APa-CS0-4"	Total/NA	Solid	Moisture	
680-107310-6 MSD	CV0971AOAPa-CS0-4"	Total/NA	Solid	Moisture	

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-107310-1
SDG: 680-107310-1

Client Sample ID: CV1061A-CS0-4"

Lab Sample ID: 680-107310-1
Date Collected: 11/13/14 10:35
Matrix: Solid
Date Received: 11/15/14 09:30
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			29.96 g	1 mL	359074	11/17/14 12:45	JMV	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		10	29.96 g	1 mL	359503	11/19/14 19:40	KMW	TAL SAV
	Instrument ID:	CMSK								
Total/NA	Prep	3050B			1.16 g	100 mL	359032	11/17/14 09:21	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.16 g	100 mL	359921	11/20/14 18:22	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Analysis	Moisture		1			358925	11/15/14 12:25	HML	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: CV1061B-CS0-4"

Lab Sample ID: 680-107310-2
Date Collected: 11/13/14 10:40
Matrix: Solid
Date Received: 11/15/14 09:30
Percent Solids: 85.7

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	359074	11/17/14 12:45	JMV	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		10	30.03 g	1 mL	359503	11/19/14 20:03	KMW	TAL SAV
	Instrument ID:	CMSK								
Total/NA	Prep	3050B			1.13 g	100 mL	359032	11/17/14 09:21	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.13 g	100 mL	359921	11/20/14 18:27	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Analysis	Moisture		1			358925	11/15/14 12:25	HML	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: CV1063A-CS0-4"

Lab Sample ID: 680-107310-3
Date Collected: 11/13/14 11:05
Matrix: Solid
Date Received: 11/15/14 09:30
Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			30.00 g	1 mL	359074	11/17/14 12:45	JMV	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		10	30.00 g	1 mL	359503	11/19/14 20:25	KMW	TAL SAV
	Instrument ID:	CMSK								
Total/NA	Prep	3050B			1.10 g	100 mL	359032	11/17/14 09:21	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.10 g	100 mL	359921	11/20/14 18:31	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Analysis	Moisture		1			358925	11/15/14 12:25	HML	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: CV1063A-CSD0-4"

Lab Sample ID: 680-107310-4
Date Collected: 11/13/14 11:10
Matrix: Solid
Date Received: 11/15/14 09:30
Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			29.99 g	1 mL	359074	11/17/14 12:45	JMV	TAL SAV

Lab Chronicle

Client: Oneida Total Integrated Enterprises LLC
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-107310-1
SDG: 680-107310-1

Client Sample ID: CV1063A-CSD0-4"

Lab Sample ID: 680-107310-4
Date Collected: 11/13/14 11:10
Matrix: Solid
Date Received: 11/15/14 09:30
Percent Solids: 82.5

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	29.99 g	1 mL	359503	11/19/14 20:48	KMW	TAL SAV
	Instrument ID:	CMSK								
Total/NA	Prep	3050B			1.18 g	100 mL	359032	11/17/14 09:21	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.18 g	100 mL	359921	11/20/14 18:35	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Analysis	Moisture		1			358925	11/15/14 12:25	HML	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: CV1063B-CS0-4"

Lab Sample ID: 680-107310-5
Date Collected: 11/13/14 11:15
Matrix: Solid
Date Received: 11/15/14 09:30
Percent Solids: 82.8

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	359074	11/17/14 12:45	JMV	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		10	30.04 g	1 mL	359503	11/19/14 21:11	KMW	TAL SAV
	Instrument ID:	CMSK								
Total/NA	Prep	3050B			1.00 g	100 mL	359032	11/17/14 09:21	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.00 g	100 mL	359921	11/20/14 18:40	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Analysis	Moisture		1			358925	11/15/14 12:25	HML	TAL SAV
	Instrument ID:	NOEQUIP								

Client Sample ID: CV0971A0APa-CS0-4"

Lab Sample ID: 680-107310-6
Date Collected: 11/13/14 11:45
Matrix: Solid
Date Received: 11/15/14 09:30
Percent Solids: 84.5

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	359074	11/17/14 12:45	JMV	TAL SAV
Total/NA	Analysis	8270D_LL_PAH		10	30.01 g	1 mL	359503	11/19/14 19:17	KMW	TAL SAV
	Instrument ID:	CMSK								
Total/NA	Prep	3050B			1.14 g	100 mL	359032	11/17/14 09:21	CRW	TAL SAV
Total/NA	Analysis	6010C		1	1.14 g	100 mL	359921	11/20/14 18:01	BCB	TAL SAV
	Instrument ID:	ICPE								
Total/NA	Analysis	Moisture		1			358925	11/15/14 12:25	HML	TAL SAV
	Instrument ID:	NOEQUIP								

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 89187

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

(X) 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 Removal	PROJECT NO.: 2014076-1006	PROJECT LOCATION (STATE): AL	PAGE 1 OF 1
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.	STANDARD REPORT DELIVERY ( )
CLIENT (SITE) PM: Russell Henderson	CLIENT PHONE: 678-255-[illegible]	CLIENT FAX: 770/528-0167	DATE DUE
CLIENT NAME: OTIE	CLIENT E-MAIL: rhenderson@otie.com		EXPEDITED REPORT DELIVERY (SURCHARGE) (X)
CLIENT ADDRESS: 1220 Kennestone Cir. Ste 106, Marietta, GA 30066			DATE DUE: 7 days
COMPANY CONTRACTING THIS WORK (if applicable)			NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

PRESERVATIVE: ice, ice

REQUIRED ANALYSIS: L.L. PAH; Al, As, Fe, Pb

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED: L.L. PAH	Al, As, Fe, Pb	REMARKS
11/13/14	1035	CV1061A-CS04"	X					X	X	
	1040	CV1061B-CS04"	X					X	X	
	~~1048~~ 1105	CV1063A-CS04"	X					X	X	
	1110	CV1063A-CSD04"	X					X	X	
11/13/14	1115	CV1063B-CS04"	X					X	X	~~MS/MSD~~
11/13/14	1145	CV0971A~~0~~APa-CS04"	X					X	X	MS/MSD

680-107310 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	11/14/14	1500						
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
	11/15/14	9:30	YES (X) NO ( )		680-107310	1.6° CUIR5: 1.3°

TAL8240-680 (1008)

Page 21 of 23

11/24/2014

Login Sample Receipt Checklist

Client: Oneida Total Integrated Enterprises LLC

Job Number: 680-107310-1
SDG Number: 680-107310-1

Login Number: 107310
List Number: 1
Creator: West, Lauren H

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: 680-107310-1
SDG: 680-107310-1

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